

Event log: LEXEN 2002
Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/08/31	19:46:40	47.70094971	-127.80101826	0.000	EVT	0.000	30.000	powering vehicle up for JAS-002
2002/08/31	20:17:57	47.70066307	-127.80121729	1.219	EVT	309.950	30.000	Ready for launch
2002/08/31	20:23:25	47.70061115	-127.80124757	1.274	EVT	307.380	30.000	Launching medea
2002/08/31	20:24:26	47.70055491	-127.80127268	1.308	EVT	304.680	30.000	Medea is in the water
2002/08/31	20:25:59	47.70075634	-127.80116618	1.274	EVT	313.890	30.000	Jason is in the air
2002/08/31	20:27:18	47.69857608	-127.79953103	1.486	EVT	196.560	30.000	Jason is in the water
2002/08/31	20:29:13	47.69460803	-127.80197009	10.737	EVT	212.820	30.000	Driving away from the ship and down
2002/08/31	20:31:44	47.69988883	-127.80462067	42.966	EVT	195.640	30.000	We're in the water
2002/08/31	20:37:31	47.73723552	-127.81991165	70.904	EVT	137.280	30.000	We are removing weights from front tray to adjust buoyancy
2002/08/31	20:42:21	47.76444113	-127.82596923	71.849	EVT	149.320	30.000	Transferred control of winch to Jason
2002/08/31	20:43:46	47.77236819	-127.83350051	71.944	EVT	150.580	30.000	We have four degrees of roll
2002/08/31	20:46:08	47.78428586	-127.83979597	140.339	EVT	151.300	30.000	Pan and tilt camera is not operating
2002/08/31	20:50:57	47.80834852	-127.85769971	292.167	EVT	113.690	30.000	We're heading down
2002/08/31	20:59:00	47.82606173	-127.86476115	575.083	EVT	132.040	30.000	test of depth
2002/08/31	20:59:01	47.82607899	-127.86477049	575.896	EVT	132.040	30.000	blank-text
2002/08/31	20:59:40	47.82819452	-127.86549508	599.242	EVT	131.970	30.000	another test of depth
2002/08/31	21:04:47	47.83628985	-127.87560343	778.227	EVT	107.120	30.000	Still going down
2002/08/31	21:05:38	47.83712074	-127.87650727	808.290	EVT	106.880	30.000	Imagenex not working, SM2000 having problems
booting								
2002/08/31	21:10:49	47.84526807	-127.88807027	995.464	EVT	96.860	30.000	St
2002/08/31	21:11:23	47.84531845	-127.88919944	999.512	EVT	79.840	30.000	Stopping Jason at 1000m
2002/08/31	21:12:30	47.84584198	-127.89772525	1020.235	EVT	169.920	30.000	Spinning Jas
2002/08/31	21:12:48	47.84708730	-127.89977986	1021.264	EVT	282.360	30.000	Spinning Jason for magnetometer check
2002/08/31	21:14:06	47.84405233	-127.90611522	1025.638	EVT	202.970	30.000	Doing the Tivey twist with Jason
2002/08/31	21:19:41	47.83891729	-127.90513218	1029.025	EVT	128.750	30.000	Ti
2002/08/31	21:19:54	47.83651488	-127.90256862	1028.964	EVT	127.790	30.000	Tivey twists complete
2002/08/31	21:21:10	47.82614475	-127.89451063	1022.286	EVT	129.630	30.000	Heading back down to the bottom
2002/08/31	21:32:12	47.83136270	-127.93567122	1403.988	EVT	79.020	30.000	SM2000 appears to be up and working
2002/08/31	21:43:55	47.84677751	-128.00935580	1802.686	EVT	91.430	30.000	We are now deeper than Jason has ever been
2002/08/31	21:59:19	47.86343097	-128.08585084	2288.444	EVT	85.100	30.000	Stopped the winch
2002/08/31	21:59:46	47.86341336	-128.08807314	2288.322	EVT	84.230	30.000	Moving the ship
2002/08/31	22:09:13	47.86422826	-128.13525812	2294.363	EVT	86.490	7.600	We're heading back down to the bottom
2002/08/31	22:18:06	47.86921828	-128.17880973	2584.961	EVT	78.220	30.000	Stopped winch
2002/08/31	22:20:36	47.86518613	-128.20975818	2613.010	EVT	267.140	30.000	Going back down to bottom slow
2002/08/31	22:23:07	47.86458245	-128.22286186	2655.438	EVT	269.720	1.640	Bottom is in view
2002/08/31	22:23:33	47.86485998	-128.22354592	2655.025	EVT	287.430	1.760	We can see sediment covered seafloor
2002/08/31	22:24:12	47.86520575	-128.22478203	2654.572	EVT	287.070	2.380	Turning the video on
2002/08/31	22:25:16	47.86589154	-128.22774002	2656.148	EVT	291.120	1.250	Winch is stopped- we are going onto the bottom to see what type of seafloor this is
2002/08/31	22:27:13	47.86901219	-128.23746565	2656.229	EVT	272.400	0.860	We are stirring up a lot of sediment as we take a closer look

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2002/08/31	22:27:29	47.86855635	-128.23802887	2656.033	EVT	266.490	1.170	It is a mound of white stuff that we are seeing on the seafloor
2002/08/31	22:29:24	47.87255019	-128.25087326	2655.140	EVT	276.980	1.640	We are repositioning under medea
2002/08/31	22:31:50	47.86376029	-128.26355880	2654.910	EVT	208.250	1.870	We are testing a few things on Jason before we go any further
2002/08/31	22:39:14	48.50463805	-123.66261792	2654.951	EVT	293.620	1.720	We're back on the bottom with a clear view
2002/08/31	22:42:12	48.51135873	-123.66236090	2654.329	EVT	329.660	2.460	Moving towards the Wuzza Bare target, 5 m north
2002/08/31	22:45:24	48.51217786	-123.65284955	2656.655	EVT	138.750	30.000	Stirring up sediment
2002/08/31	22:52:02	48.50747245	-123.64374248	2656.364	EVT	137.970	30.000	waiting for the dust to clear
2002/08/31	22:54:10	48.50917878	-123.64425240	2655.188	EVT	288.170	1.630	Temperature anomaly: from 1.77 to 1.79 degrees C
2002/08/31	22:59:37	48.51084693	-123.64891022	2655.390	EVT	288.340	1.500	Stirring up some more sediment
2002/08/31	23:13:49	48.48964592	-123.65988437	2655.654	EVT	224.310	1.370	test data event logger
2002/08/31	23:19:09	48.48595344	-123.66337055	2655.931	EVT	224.080	1.260	BIO.mnvf Holothurians TXT we think
2002/08/31	23:20:53	48.48507501	-123.66531170	2655.877	EVT	210.440	1.230	BIO.snvf Crinoids_stalked
2002/08/31	23:23:12	48.48348101	-123.66829673	2655.674	EVT	224.490	1.340	BIO.mnvf Holothurians TXT lots of them
2002/08/31	23:28:49	48.47489534	-123.67747222	2655.654	EVT	224.620	1.460	7
2002/08/31	23:29:24	48.47345783	-123.67903558	2655.674	EVT	224.340	1.300	23:02 ship moved 70m SW from Wuzza Bare
2002/08/31	23:29:53	48.47229131	-123.68019744	2655.735	EVT	225.100	1.370	asteroid
2002/08/31	23:30:39	48.46985532	-123.68187812	2655.803	EVT	224.460	1.450	asteroid and holothurian
2002/08/31	23:31:45	48.46699768	-123.68508160	2655.674	EVT	224.390	1.480	two holothurians
2002/08/31	23:32:13	48.46582540	-123.68640755	2655.559	EVT	224.700	1.520	ship has stopped, medea is still moving
2002/08/31	23:33:18	48.46343462	-123.68870959	2655.370	EVT	223.900	1.720	clock went to zero
2002/08/31	23:34:35	48.46081566	-123.69104962	2655.424	EVT	224.540	1.650	got the clock back
2002/08/31	23:35:45	48.45881496	-123.69297585	2655.445	EVT	224.510	1.710	holothurian
2002/08/31	23:36:39	48.45684098	-123.69481804	2655.485	EVT	224.350	1.620	possible echinoid
2002/08/31	23:39:07	48.45283555	-123.69870682	2655.627	EVT	224.170	1.650	BIO.mnvf Holothurians TXT holothurian
2002/08/31	23:39:31	48.45285723	-123.69870690	2655.458	EVT	224.490	1.810	scyphozona
2002/08/31	23:40:14	48.45284844	-123.69862936	2655.445	EVT	356.490	1.860	asteroid
2002/08/31	23:40:14	48.45284690	-123.69864088	2655.445	EVT	356.910	1.810	heading due north 150m
2002/08/31	23:40:40	48.45284674	-123.69874214	2655.546	EVT	1.730	1.690	sediment stirred up
2002/08/31	23:42:42	48.45318037	-123.69873156	2655.532	EVT	1.690	1.820	possible fish
2002/08/31	23:46:25	48.45881785	-123.69856480	2655.526	EVT	1.720	1.780	holothurian
2002/08/31	23:47:58	48.46190723	-123.69847473	2655.539	EVT	1.530	1.790	polychaete
2002/08/31	23:48:41	48.46339300	-123.69843723	2655.465	EVT	1.360	1.780	holothurian
2002/08/31	23:49:23	48.46616262	-123.69836779	2655.499	EVT	1.360	1.770	1.797 temperature anomaly
2002/08/31	23:49:46	48.46765908	-123.69831848	2655.424	EVT	1.600	1.750	scyphozoan
2002/08/31	23:49:47	48.46772084	-123.69832639	2655.512	EVT	1.140	1.740	1.77 to 1.8 temperature anomaly
2002/08/31	23:50:43	48.47134396	-123.69822401	2655.499	EVT	1.390	1.740	Deep seawater temperature mean is now 1.79
2002/08/31	23:52:58	48.47995587	-123.69798488	2655.431	EVT	1.730	1.800	Temperature mean back to 1.78
2002/08/31	23:54:33	48.48604495	-123.69781789	2655.492	EVT	1.670	1.750	holothurian
2002/08/31	23:54:50	48.48713189	-123.69781837	2655.357	EVT	1.450	1.890	Temperature anomaly 1.8
2002/08/31	23:55:40	48.49031718	-123.69769864	2655.587	EVT	1.420	1.750	Back to 1.78

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Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/08/31	23:56:20	48.49290027	-123.69764196	2655.499	EVT	1.500	1.830	target 3=temperature anomaly
2002/08/31	23:56:49	48.49474407	-123.69758457	2655.789	EVT	1.710	1.620	holothurian
2002/08/31	23:57:16	48.49646897	-123.69753544	2655.499	EVT	1.560	1.880	asteroid
2002/08/31	23:58:23	48.50081127	-123.69743889	2655.451	EVT	1.610	1.900	holothurian
2002/09/01	00:00:12	48.50778588	-123.69722619	2655.492	EVT	1.650	1.900	polychaete
2002/09/01	00:01:04	48.51109585	-123.69712816	2655.559	EVT	1.700	1.850	Temperature mean 1.78
2002/09/01	00:03:54	48.51527306	-123.69946569	2655.539	EVT	319.230	1.760	now headed due east
2002/09/01	00:04:25	48.51534186	-123.69934383	2655.370	EVT	206.650	2.000	waiting for medea to catch up then we will head east
2002/09/01	00:08:20	48.51879407	-123.69967186	2655.465	EVT	92.320	1.990	holothurian\
2002/09/01	00:09:22	48.52051368	-123.69792191	2655.303	EVT	92.430	2.080	temperature 1.8 then back to 1.78
2002/09/01	00:09:41	48.52050293	-123.69672337	2655.282	EVT	92.590	2.090	macrourid
2002/09/01	00:10:54	48.52466467	-123.69240457	2655.208	EVT	89.760	2.160	asteroid
2002/09/01	00:11:31	48.52666929	-123.69070304	2655.505	EVT	86.270	1.830	constant temperature of 1.778
2002/09/01	00:13:19	48.52746581	-123.68950949	2654.843	EVT	86.550	2.520	1.825 temp anomaly
2002/09/01	00:13:56	48.52791839	-123.68849517	2655.188	EVT	88.270	2.250	anomaly gone, had to keep moving
2002/09/01	00:14:06	48.52796362	-123.68794352	2655.046	EVT	87.930	2.450	holothurian
2002/09/01	00:14:50	48.52798973	-123.68642047	2654.917	EVT	88.130	2.450	sediment holes with asteroids
2002/09/01	00:17:36	48.52882395	-123.67614034	2655.282	EVT	88.140	1.950	holothurian and possible echinoid
2002/09/01	00:19:23	48.53364510	-123.67084329	2655.512	EVT	88.030	1.730	holothurian
2002/09/01	00:20:23	48.53435142	-123.66743254	2655.620	EVT	87.800	1.690	macrourid
2002/09/01	00:20:59	48.53409142	-123.66709010	2655.512	EVT	88.350	1.700	see white particles in the sediment near a holothurian
2002/09/01	00:22:08	48.53507988	-123.66848466	2655.188	EVT	88.200	1.970	possibly shells?
2002/09/01	00:22:09	48.53507988	-123.66848466	2655.188	EVT	88.200	1.970	macrourid Coryphaenoides
2002/09/01	00:22:35	48.53568761	-123.66880289	2655.066	EVT	88.150	2.190	Coryphaenoides swimming
2002/09/01	00:23:52	48.53693621	-123.66752836	2655.161	EVT	87.820	2.080	zooming in to take a look at shells
2002/09/01	00:24:50	48.55810329	-123.66382836	2655.614	EVT	87.470	1.590	stopping the ship and moving back toward shell area
2002/09/01	00:25:58	48.55828684	-123.66189703	2656.736	EVT	87.910	30.000	polychaete
2002/09/01	00:26:48	48.55777907	-123.66149573	2656.939	EVT	87.790	30.000	zoomed into white patches
2002/09/01	00:27:14	48.55688867	-123.66089046	2656.871	EVT	87.770	30.000	temperature anomaly 1.829
2002/09/01	00:27:35	48.55507883	-123.65991423	2656.946	EVT	87.790	30.000	mean temperature is now 1.81
2002/09/01	00:28:30	48.55234632	-123.65873812	2656.966	EVT	87.840	30.000	consistent 1.82 degrees C
2002/09/01	00:28:46	48.55189410	-123.65903411	2656.925	EVT	87.840	30.000	1.84 degrees C
2002/09/01	00:31:28	48.54903336	-123.65944692	2656.418	EVT	87.740	1.300	going to pick up Butterfield sampler's intake to get a
temperature reading near the mud								
2002/09/01	00:32:08	48.54919540	-123.66041239	2654.660	EVT	87.930	2.570	lost the anomaly: back to 1.78
2002/09/01	00:34:58	48.55003370	-123.66745554	2645.924	EVT	87.730	11.390	m pruis on event logger
2002/09/01	00:35:22	48.55013782	-123.66838745	2644.612	EVT	87.720	12.580	watch change for dinner relief
2002/09/01	00:37:44	48.54966629	-123.67151464	2638.539	EVT	87.710	18.640	picked up the icl
2002/09/01	00:38:12	48.54950401	-123.67183109	2637.302	EVT	87.690	19.730	no temp or salinity anomaly at present location (from
ctd)								
2002/09/01	00:39:44	48.54916522	-123.67277457	2633.494	EVT	87.700	13.720	set down the icl and are going to try and re-grip
2002/09/01	00:40:43	48.54901638	-123.67324854	2630.938	EVT	87.690	25.970	icl is recording to lexen1.log

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Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/01	00:40:55	48.54900108	-123.67333885	2630.424	EVT	87.730	26.870	picked up icl again
2002/09/01	00:42:23	48.55080118	-123.67327973	2655.641	EVT	87.850	1.950	back on the bottom with the icl
2002/09/01	00:42:59	48.55166145	-123.67126984	2654.045	EVT	85.380	3.340	looking for the white patches we saw earlier
2002/09/01	00:43:35	48.55194073	-123.67053366	2654.187	EVT	100.350	3.230	temperature anomaly 1.8
2002/09/01	00:44:29	48.55228300	-123.66964574	2654.079	EVT	105.230	3.320	1.824 temperature anomaly
2002/09/01	00:45:13	48.55163042	-123.66617913	2655.505	EVT	108.570	1.770	positioning temperature probe over white patch
2002/09/01	00:45:55	48.55031638	-123.66532424	2657.007	EVT	118.230	30.000	stirring up sediment
2002/09/01	00:48:13	48.56249817	-123.66759840	2657.081	EVT	117.680	30.000	icl not recording data yet
2002/09/01	00:49:55	48.56521608	-123.66738398	2657.094	EVT	117.890	30.000	trying to wake up the icl
2002/09/01	00:56:25	48.58508999	-123.65759834	2657.223	EVT	117.960	30.000	deep sea fish
2002/09/01	00:59:25	48.59148911	-123.66152762	2657.027	EVT	118.030	30.000	probing the sediment
2002/09/01	01:01:57	48.59481795	-123.66396326	2657.149	EVT	118.040	30.000	pilot switch
2002/09/01	01:02:40	48.59596293	-123.66475658	2657.162	EVT	118.030	30.000	temperature probing the sediment
2002/09/01	01:03:48	48.59822490	-123.66620887	2657.135	EVT	118.030	30.000	temp anomaly 1.79 water 2.4 in sediment
2002/09/01	01:05:23	48.60075399	-123.66791561	2657.088	EVT	118.040	30.000	definitely a hot spot says Paul
2002/09/01	01:05:38	48.60115909	-123.66813675	2657.115	EVT	118.030	30.000	holothurians and asteroids at hot spot
2002/09/01	01:06:57	48.60390045	-123.66894342	2657.196	EVT	118.010	30.000	polychaete
2002/09/01	01:09:24	48.60244266	-123.66166151	2655.120	EVT	115.740	2.150	stalked crinoid
2002/09/01	01:09:39	48.60193970	-123.66085274	2655.228	EVT	117.980	2.100	heading off to explore more
2002/09/01	01:10:30	48.59946949	-123.65753756	2655.154	EVT	105.050	2.150	Heading East
2002/09/01	01:11:43	48.59928423	-123.65608383	2655.086	EVT	89.990	2.160	white stuff
2002/09/01	01:12:15	48.59930404	-123.65607059	2655.154	EVT	89.720	2.110	Releasing the ICL
2002/09/01	01:13:02	48.59929636	-123.65608856	2655.019	EVT	89.720	2.250	ICL back in holster arm out of the way
2002/09/01	01:14:26	48.59957814	-123.65529911	2655.174	EVT	89.490	2.130	better view of white stuff
2002/09/01	01:16:24	48.60058875	-123.65405286	2655.390	EVT	89.830	1.880	white depression
2002/09/01	01:16:49	48.60059860	-123.65411650	2654.707	EVT	89.550	2.590	Looking at white stuff trying to figure out if it is
Biology or Geology								
2002/09/01	01:20:01	48.60059063	-123.65410279	2655.188	EVT	89.450	2.150	scyphozoan
2002/09/01	01:20:18	48.60059213	-123.65411021	2655.100	EVT	89.440	2.110	temperature anomaly 1.84
2002/09/01	01:23:42	48.60059687	-123.65410739	2655.025	EVT	89.430	2.060	coelenterate
2002/09/01	01:28:11	48.60221492	-123.65531918	2657.061	EVT	89.750	30.000	picking up the temperature probe again
2002/09/01	01:29:55	48.60068449	-123.65479449	2656.810	EVT	89.840	30.000	putting temperature probe into the sediment
2002/09/01	01:32:47	48.60132861	-123.65585983	2656.973	EVT	89.900	30.000	still positioning temperature probe over sediment
2002/09/01	01:34:13	48.60307263	-123.65465102	2656.973	EVT	89.870	30.000	temperature probing the sediment
2002/09/01	01:35:01	48.60072919	-123.65400016	2657.000	EVT	89.810	30.000	1.9 water temperature according to icm
2002/09/01	01:35:37	48.59987075	-123.65335871	2657.020	EVT	89.790	30.000	macrourid
2002/09/01	01:35:47	48.60021196	-123.65297410	2656.939	EVT	89.760	0.780	positioned temp probe in the center of depression and
piercing the sediment								
2002/09/01	01:36:02	48.60059720	-123.65243571	2656.892	EVT	89.790	30.000	2.6 de
2002/09/01	01:36:18	48.60100053	-123.65178108	2656.885	EVT	89.800	30.000	2.6 degrees C re
2002/09/01	01:36:23	48.60111888	-123.65158133	2656.959	EVT	89.790	30.000	2.8
2002/09/01	01:37:50	48.60574181	-123.64675290	2656.925	EVT	89.710	0.760	TEMP reached max of 2.8 degrees C

Event log: LEXEN 2002
Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/01	01:38:46	48.60903177	-123.64308706	2657.020	EVT	89.740	0.760	temperature probe removed
2002/09/01	01:39:58	48.60976539	-123.64353882	2657.054	EVT	89.800	30.000	is this possibly the site of an old sediment core?
2002/09/01	01:40:10	48.60990347	-123.64357584	2656.885	EVT	89.850	30.000	Jason positions are bad -- look at Medea instead
2002/09/01	01:40:22	48.61003656	-123.64347897	2657.047	EVT	89.790	30.000	Jason positions are bad
2002/09/01	01:42:19	48.60918682	-123.64306948	2654.958	EVT	89.540	2.420	sediment stirred up
2002/09/01	01:43:04	48.60918472	-123.64206820	2654.816	EVT	89.630	2.570	trying to get a good fix on this location
2002/09/01	01:43:08	48.60918237	-123.64207746	2654.430	EVT	89.580	2.770	sediment stirred up
2002/09/01	01:43:55	48.60781726	-123.64049533	2654.511	EVT	89.550	2.930	planning to go east about 100 m
2002/09/01	01:43:59	48.60774270	-123.64048599	2654.085	EVT	89.520	3.110	holothurian
2002/09/01	01:45:33	48.60486758	-123.63983661	2654.518	EVT	89.610	2.890	polychaete
2002/09/01	01:46:52	48.60486986	-123.63982233	2654.572	EVT	89.580	2.820	driving east 100m
2002/09/01	01:52:26	48.60490208	-123.63740082	2654.498	EVT	89.700	2.860	possible anthozoan
2002/09/01	01:52:42	48.60491483	-123.63635462	2654.525	EVT	89.640	2.840	holothurians
2002/09/01	01:54:13	48.60496200	-123.63051279	2654.572	EVT	89.540	2.690	white lumps
2002/09/01	01:55:54	48.60500385	-123.62406740	2654.599	EVT	89.600	2.770	holothurian
2002/09/01	01:59:13	48.60511745	-123.61274563	2654.593	EVT	89.580	2.770	holothurian
2002/09/01	02:01:10	48.60514392	-123.60918845	2654.660	EVT	89.600	2.620	1.8 degrees C TEMP anomaly while moving smoothly in one direction
2002/09/01	02:01:42	48.60513568	-123.60822335	2654.342	EVT	89.780	2.920	back down to 1,78 degrees C
2002/09/01	02:02:03	48.60514227	-123.60758051	2654.369	EVT	89.690	2.880	possible fish
2002/09/01	02:03:08	48.60508409	-123.60623213	2654.376	EVT	198.000	2.930	vehicle rotated
2002/09/01	02:03:13	48.60532121	-123.60625180	2654.390	EVT	238.910	2.840	rotating the vehicle
2002/09/01	02:03:29	48.60509278	-123.60597709	2654.599	EVT	270.730	2.800	temperature is constant
2002/09/01	02:04:24	48.60511348	-123.60408354	2654.471	EVT	271.010	2.870	macrourid
2002/09/01	02:05:02	48.60509465	-123.60185607	2654.471	EVT	270.840	2.890	macrourid
2002/09/01	02:05:17	48.60507882	-123.60105838	2654.457	EVT	270.830	2.860	shrimp
2002/09/01	02:07:55	48.60505714	-123.59925068	2654.471	EVT	270.770	2.830	holothurian
2002/09/01	02:07:59	48.60504091	-123.59924832	2654.518	EVT	270.700	2.850	deploying Voight's wood here
2002/09/01	02:10:18	48.60182370	-123.59502961	2655.417	EVT	57.060	1.920	holothurian
2002/09/01	02:10:40	48.60352130	-123.59354502	2655.073	EVT	57.220	2.130	settling to place wood
2002/09/01	02:10:54	48.60387301	-123.59309122	2656.736	EVT	57.510	0.810	found a good location for wood deployment
2002/09/01	02:11:32	48.60592394	-123.59146672	2656.222	EVT	57.130	1.030	Jason has stirred up a little bit of sediment
2002/09/01	02:11:46	48.60686850	-123.59111013	2655.627	EVT	56.950	1.740	holothurians and crinoid
2002/09/01	02:12:58	48.60796183	-123.59196188	2654.052	EVT	56.960	3.370	sediment disturbed as vehicle prepares to drop wood
2002/09/01	02:13:01	48.60796586	-123.59202540	2653.761	EVT	57.000	3.410	stirring up some more sediment
2002/09/01	02:14:14	48.60559815	-123.58795088	2656.357	EVT	127.380	1.040	asteroid
2002/09/01	02:15:39	48.60525476	-123.58704683	2656.865	EVT	127.600	30.000	sediment disturbance
2002/09/01	02:17:14	48.60692789	-123.58801936	2656.770	EVT	127.500	30.000	still waiting for the sediment to clear
2002/09/01	02:19:17	48.60412560	-123.58784049	2656.202	EVT	183.290	1.130	marker X is included in wood deployment
2002/09/01	02:20:34	48.60395399	-123.58785361	2655.999	EVT	183.310	1.390	wood has been swung out of its drawer but waiting for the sediment to clear
2002/09/01	02:22:26	48.60108675	-123.58906106	2654.633	EVT	207.290	2.740	getting ready to grab loop on the wood

Event log: LEXEN 2002
Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/01	02:23:26	48.60107817	-123.58903923	2654.762	EVT	207.030	2.550	grabbed the loop!
2002/09/01	02:23:29	48.60109048	-123.58905326	2654.647	EVT	207.240	2.700	wood being deployed
2002/09/01	02:23:49	48.60108903	-123.58904897	2654.822	EVT	207.020	2.600	marker plate drifts upwards
2002/09/01	02:23:56	48.60109665	-123.58903420	2654.667	EVT	206.970	2.770	marker X has been released
2002/09/01	02:25:37	48.60109225	-123.58903283	2654.795	EVT	207.160	2.490	positioned arm around the wood
2002/09/01	02:26:04	48.60106644	-123.58903314	2654.701	EVT	207.330	2.690	picked up the first bag of wood
2002/09/01	02:26:24	48.60108756	-123.58904025	2654.870	EVT	207.060	2.640	picked up the second bag of wood
2002/09/01	02:26:40	48.60109887	-123.58902254	2654.680	EVT	206.780	2.650	Nav Marker 5 first wood deployment
2002/09/01	02:26:59	48.60107932	-123.58904154	2654.660	EVT	207.190	2.650	wood hits bottom
2002/09/01	02:27:02	48.60110153	-123.58904449	2654.795	EVT	207.030	2.620	dropped second bag of wood next to the first
2002/09/01	02:28:09	48.60113298	-123.58897137	2654.674	EVT	224.970	2.710	target 5 is where marker x and wood have been deployed
2002/09/01	02:29:10	48.60141752	-123.58832636	2656.040	EVT	254.570	1.350	taking a digital still
2002/09/01	02:30:21	48.59907048	-123.58944976	2655.458	EVT	255.130	1.900	Took 2 DSC 476 and 475
2002/09/01	02:30:33	48.59898223	-123.58985127	2655.884	EVT	254.930	1.500	macrourid
2002/09/01	02:30:35	48.59898648	-123.58988188	2656.155	EVT	254.970	1.310	getting ready to take a temperature reading
2002/09/01	02:31:20	48.59881947	-123.58996782	2657.074	EVT	254.890	30.000	unknown
2002/09/01	02:33:49	48.59500992	-123.59588523	2657.263	EVT	254.940	30.000	picked up temperature probe
2002/09/01	02:34:50	48.59185644	-123.59706656	2656.973	EVT	254.950	30.000	Coryphaenoides resting on the bottom
2002/09/01	02:35:50	48.58730306	-123.59317726	2657.108	EVT	254.950	30.000	multiple macrourids
2002/09/01	02:36:28	48.58386386	-123.59019311	2657.101	EVT	254.940	30.000	picked up the temperature probe
2002/09/01	02:39:25	48.57276711	-123.57941849	2657.149	EVT	254.880	30.000	getting a grip on the temperature probe
2002/09/01	02:40:48	48.56704153	-123.57875266	2657.054	EVT	254.840	30.000	finally got the temperature probe in hand
2002/09/01	02:40:50	48.56703353	-123.57876324	2657.040	EVT	254.850	30.000	temperature probe
2002/09/01	02:41:03	48.56665620	-123.57908795	2657.101	EVT	254.840	30.000	pierced the sediment with the probe
2002/09/01	02:41:50	48.56279477	-123.58119370	2657.088	EVT	254.780	30.000	2.0 TEMP
2002/09/01	02:41:55	48.56256880	-123.58131216	2657.020	EVT	254.770	30.000	2.2 TEMP
2002/09/01	02:42:36	48.55894420	-123.58335031	2657.155	EVT	254.760	30.000	TEMP 2.0 with an occasional 2.2
2002/09/01	02:43:44	48.55643499	-123.58578804	2657.074	EVT	254.700	30.000	TEMP 2.0 with occasional 2.2 at different spot in the sediment
2002/09/01	02:43:58	48.55701579	-123.58631244	2656.898	EVT	254.730	30.000	water column is constant at 1.778
2002/09/01	02:44:51	48.55955950	-123.58849252	2657.013	EVT	254.680	30.000	2.0 half the time 2.2 half the time TEMP at third spot in sediment
2002/09/01	02:45:10	48.56023371	-123.58919223	2657.061	EVT	254.680	30.000	solid 2.2 TEMP at third spot
2002/09/01	02:47:00	48.56335039	-123.59229217	2656.993	EVT	254.700	30.000	ophidiiform
2002/09/01	02:47:53	48.56369353	-123.59394361	2657.155	EVT	254.690	30.000	big ophidiiform (possibly Spectrunculus)
2002/09/01	02:48:37	48.56360416	-123.59675238	2657.108	EVT	254.700	30.000	preparing to take fluid sample
2002/09/01	02:53:39	48.56432308	-123.59977816	2657.081	EVT	254.540	30.000	taking sample 5 fluid sampler
2002/09/01	02:54:24	48.56522282	-123.60005745	2657.108	EVT	254.560	30.000	pen and tilt show
2002/09/01	02:55:09	48.56569378	-123.59995790	2657.149	EVT	254.770	30.000	macrourid
2002/09/01	02:55:23	48.56619137	-123.60004859	2657.101	EVT	254.780	30.000	piston 5 is moving 2.1 degrees
2002/09/01	02:56:56	48.55694198	-123.60659096	2657.061	EVT	254.850	30.000	BIO.mnvf Fish TXT rattail sediment disturbed

Event log: LEXEN 2002

Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/01	02:58:05	48.55507855	-123.60786478	2657.094	EVT	254.820	30.000	cann't see the sampler due to sediment
2002/09/01	02:59:43	48.55565008	-123.60912967	2656.959	EVT	254.940	30.000	sample 5 done 622 ml
2002/09/01	03:01:34	48.55565128	-123.60913187	2656.979	EVT	255.010	30.000	heading for next site WB on target screen
2002/09/01	03:04:00	48.54507368	-123.60952580	2654.802	EVT	255.120	2.230	piston 5 was all the way to the bottom
2002/09/01	03:07:52	48.54316337	-123.61726434	2655.242	EVT	255.030	1.860	BIO.mnvf Holothurians TXT holothurians
2002/09/01	03:11:57	48.54184939	-123.61679691	2655.167	EVT	255.770	1.980	BIO.mnvf Holothurians
2002/09/01	03:14:10	48.53903750	-123.61972675	2654.498	EVT	256.090	2.620	BIO.mnvf Holothurians
2002/09/01	03:16:05	48.53740053	-123.62609799	2654.444	EVT	255.250	2.690	BIO.mnvf Fish TXT orange
2002/09/01	03:16:35	48.53705146	-123.62742631	2654.336	EVT	255.670	2.760	BIO.mnvf Holothurians TXT right
2002/09/01	03:17:32	48.53703645	-123.62737696	2654.640	EVT	318.410	2.480	white stuff
2002/09/01	03:18:32	48.53845604	-123.62852337	2656.391	EVT	320.540	0.890	more white stuff
2002/09/01	03:18:41	48.53842945	-123.62875841	2656.411	EVT	300.940	1.180	1.78 degrees on CTD, background
2002/09/01	03:19:53	48.53913991	-123.63017660	2656.269	EVT	277.620	0.980	white rocks and mushroom?
2002/09/01	03:20:19	48.53712977	-123.63308632	2654.998	EVT	224.420	2.170	BIO.mnvf Brittle_Stars
2002/09/01	03:20:54	48.52970627	-123.63961509	2654.836	EVT	206.200	2.340	BIO.mnvf Fish
2002/09/01	03:21:26	48.52607946	-123.64029548	2654.194	EVT	169.490	2.800	BIO.mnvf Holothurians
2002/09/01	03:27:22	48.51847279	-123.65151799	2654.674	EVT	235.680	2.490	white rocks
2002/09/01	03:27:38	48.51801385	-123.65219949	2656.357	EVT	235.500	0.980	BIO.mnvf Brittle_Stars
2002/09/01	03:27:59	48.51678842	-123.65421244	2655.647	EVT	237.830	1.580	BIO.mnvf Holothurians
2002/09/01	03:30:52	48.51555189	-123.65596853	2655.390	EVT	235.720	1.710	BIO.mnvf Fish
2002/09/01	03:34:00	48.51559694	-123.65517565	2654.910	EVT	235.620	2.160	waiting for sediment to clear
2002/09/01	03:35:53	48.51497413	-123.65541216	2655.559	EVT	235.870	1.540	getting prepared for temperature survey
2002/09/01	03:36:15	48.51514311	-123.65549565	2655.465	EVT	259.980	1.670	BIO.mnvf Fish TXT starting survey
2002/09/01	03:36:25	48.51466804	-123.65522004	2655.316	EVT	181.610	1.840	we are over line on and starting survey
2002/09/01	03:37:24	48.51469268	-123.65520322	2655.208	EVT	180.730	1.710	altitude for survey on line one is 10 meters
2002/09/01	03:38:43	48.51370498	-123.65518146	2655.228	EVT	180.540	1.910	BIO.mnvf Holothurians
2002/09/01	03:39:03	48.51285146	-123.65521753	2655.242	EVT	181.130	1.690	BIO.mnvf Fish
2002/09/01	03:39:14	48.51238331	-123.65521034	2655.458	EVT	181.120	1.560	rattail
2002/09/01	03:39:24	48.51195896	-123.65521548	2655.242	EVT	180.700	1.720	blank-text
2002/09/01	03:39:31	48.51166367	-123.65522296	2655.411	EVT	181.110	1.670	BIO.mnvf Fish
2002/09/01	03:39:57	48.51055455	-123.65523276	2655.357	EVT	180.620	1.650	quarter knot speed, one hour survey
2002/09/01	03:40:56	48.50810834	-123.65527432	2655.336	EVT	180.620	1.730	BIO.mnvf Holothurians
2002/09/01	03:41:32	48.50654869	-123.65530043	2655.620	EVT	180.930	1.570	white stuff on left
2002/09/01	03:42:41	48.50366499	-123.65532748	2655.303	EVT	180.800	1.690	lots of white stuff and holothurians
2002/09/01	03:48:36	48.49323115	-123.65510211	2654.227	EVT	180.900	2.830	BIO.mnvf Fish
2002/09/01	03:50:11	48.48861297	-123.65515690	2655.559	EVT	180.870	1.520	BIO.mnvf Holothurians
2002/09/01	03:50:32	48.48721940	-123.65553497	2655.573	EVT	181.040	1.510	BIO.mnvf Brittle_Stars
2002/09/01	03:50:57	48.48570287	-123.65718635	2655.532	EVT	180.730	1.570	BIO.mnvf Holothurians
2002/09/01	03:51:18	48.48194935	-123.65787624	2655.654	EVT	181.830	1.390	BIO.mnvf Holothurians
2002/09/01	03:51:37	48.47894382	-123.65847751	2655.458	EVT	182.150	1.560	mound
2002/09/01	03:52:26	48.47600689	-123.65845522	2655.553	EVT	181.030	1.430	BIO.mnvf Holothurians
2002/09/01	03:53:37	48.47141410	-123.65855357	2655.641	EVT	181.180	1.420	mound

Event log: LEXEN 2002

Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/01	03:54:07	48.46943726	-123.65856404	2655.587	EVT	181.020	1.470	BIO.mnvf Holothurians
2002/09/01	03:54:44	48.46703163	-123.65861011	2655.607	EVT	180.920	1.450	brittle star and anemone
2002/09/01	03:55:08	48.46553234	-123.65863085	2655.512	EVT	181.350	1.530	BIO.mnvf Holothurians
2002/09/01	03:55:16	48.46491804	-123.65863149	2655.695	EVT	181.430	1.540	anemones
2002/09/01	03:56:08	48.46159010	-123.65868870	2655.505	EVT	181.280	1.550	BIO.mnvf Holothurians
2002/09/01	03:58:26	48.45802642	-123.65717009	2655.762	EVT	181.150	1.380	BIO.mnvf Holothurians
2002/09/01	03:58:27	48.45795737	-123.65716865	2655.580	EVT	180.910	1.380	BIO.mnvf Holothurians
2002/09/01	03:58:29	48.45781089	-123.65718701	2655.634	EVT	180.780	1.440	BIO.mnvf Brittle_Stars
2002/09/01	03:59:21	48.45453715	-123.65606650	2655.593	EVT	180.200	1.570	BIO.mnvf Holothurians
2002/09/01	04:00:21	48.45068692	-123.65427485	2655.593	EVT	181.060	1.500	BIO.mnvf Fish TXT mushroom?
2002/09/01	04:00:35	48.44977893	-123.65427637	2655.593	EVT	180.510	1.440	mushroom?
2002/09/01	04:01:56	48.44453675	-123.65434370	2655.573	EVT	181.010	1.510	small crater in sediment
2002/09/01	04:03:31	48.43832345	-123.65443486	2655.695	EVT	181.040	1.580	BIO.mnvf Brittle_Stars TXT new software? for depth control
2002/09/01	04:04:25	48.43338957	-123.65448959	2655.539	EVT	180.600	1.480	BIO.mnvf Holothurians
2002/09/01	04:04:44	48.43150232	-123.65452042	2655.526	EVT	181.250	1.480	loose sediment
2002/09/01	04:06:10	48.42301536	-123.65453179	2654.356	EVT	180.810	2.690	BIO.mnvf Fish
2002/09/01	04:08:11	48.41553400	-123.65453310	2653.267	EVT	180.940	3.780	BIO.mnvf Holothurians
2002/09/01	04:13:31	48.39456208	-123.65669222	2653.301	EVT	181.060	3.910	staying at 10 m altitude
2002/09/01	04:16:01	48.37999793	-123.65686993	2653.179	EVT	180.660	3.960	going to take background BEAST sample, #11
2002/09/01	04:21:28	48.38012309	-123.65687893	2647.046	EVT	180.790	9.940	stopped BEAST sample #11, 521 ml; filtered bag sample
2002/09/01	04:24:39	48.37164856	-123.65684669	2647.080	EVT	32.030	9.900	added some more to BEAST sample #11; final volume = 599 mL
2002/09/01	04:27:51	48.36478689	-123.65629021	2646.958	EVT	0.010	10.060	starting line 1 northbound
2002/09/01	04:27:52	48.36478689	-123.65629021	2646.958	EVT	0.010	10.060	survey starting at line one, heading north
2002/09/01	04:43:41	48.35850838	-123.65630471	2646.938	EVT	0.560	10.100	doing an SM 2000 spin
2002/09/01	04:45:02	48.35851920	-123.65629819	2647.053	EVT	359.940	9.800	seems to be aa problem moving the ship to start the survey. We are rotating to even out the pitch to straighten out the SM 2000
2002/09/01	04:45:13	48.35853306	-123.65629862	2646.918	EVT	359.940	10.040	Survey has not yet begun.
2002/09/01	04:57:09	48.35349541	-123.66145376	2647.039	EVT	359.910	9.730	BIO.mnvf Fish TXT There are changing currents here. It is complicating the ship movement. But we are going to start heading north to start the survey.
2002/09/01	05:04:11	48.37479313	-123.65575866	2646.958	EVT	0.110	9.710	survey has started
2002/09/01	05:29:59	48.45323953	-123.65379182	2646.532	EVT	0.230	9.860	we are still surveying.
2002/09/01	06:19:54	48.60867527	-123.65654786	2646.404	EVT	0.350	9.590	BIO.mnvf Fish
2002/09/01	06:20:47	48.61092497	-123.65653694	2646.505	EVT	0.090	9.420	Generic white fish. misc type.
2002/09/01	06:21:22	48.61368086	-123.65651969	2646.478	EVT	0.120	9.470	end of survey leg 1
2002/09/01	06:21:36	48.61381663	-123.65651571	2646.573	EVT	0.420	9.460	End of Survey line 1.
2002/09/01	06:30:49	48.61959848	-123.66151019	2645.951	EVT	180.080	10.050	BIO.mnvf Fish
2002/09/01	06:31:41	48.61961543	-123.66360628	2646.154	EVT	180.020	9.850	tinophore (sic) really cool one- look back some frames
2002/09/01	06:33:14	48.61959844	-123.66665914	2646.025	EVT	180.090	10.040	jellyfish

Event log: LEXEN 2002
Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/01	06:50:54	48.60662527	-123.68587773	2646.039	EVT	180.160	9.890	Started line 2 south
2002/09/01	06:52:44	48.60270884	-123.68585031	2646.079	EVT	180.110	9.810	BIO.mnvf Fish TXT 1.8 temperature anomaly on CTD
2002/09/01	06:53:00	48.60153938	-123.68587172	2646.086	EVT	180.290	10.020	1.8 temperature anomaly on CTD
2002/09/01	06:53:00	48.60153938	-123.68587172	2646.086	EVT	180.290	10.020	1.8 temperature anomaly on CTD
2002/09/01	07:08:03	48.55221707	-123.68328127	2645.944	EVT	180.090	9.940	light is down to 1 hmi
2002/09/01	07:27:51	48.47464922	-123.68321078	2646.113	EVT	180.230	9.540	BIO.mvf Shrimp
2002/09/01	07:48:17	48.39241557	-123.68322625	2646.079	EVT	179.980	9.700	blank-text
2002/09/01	07:54:16	48.36908910	-123.68322550	2646.167	EVT	180.070	9.760	End of line
2002/09/01	08:55:14	48.37653128	-123.64397704	2645.998	EVT	359.560	9.420	Starting Line 3 northbound
2002/09/01	09:22:58	48.46951187	-123.64530953	2646.127	EVT	359.610	9.640	The SM200 has crashed
2002/09/01	09:23:21	48.47122517	-123.64531350	2646.039	EVT	359.500	9.490	It says the program has performed an illegal operation and will shut down
2002/09/01	09:23:43	48.47297252	-123.64531602	2645.964	EVT	359.330	9.360	Trying to restart SM2000
2002/09/01	09:25:53	48.47059076	-123.64219435	2646.133	EVT	353.450	9.450	Jason is holding the position where the SM2000 died
2002/09/01	09:31:29	48.48966294	-123.64105392	2646.052	EVT	358.430	9.380	SM2000 is not rebooting
2002/09/01	09:32:15	48.49312435	-123.64113964	2646.181	EVT	358.490	9.290	Cycled power on Jason
2002/09/01	09:35:04	48.50586395	-123.64142935	2646.201	EVT	358.530	9.400	The vehicle went off course at the same time the SM2000 died
2002/09/01	09:40:59	48.51416668	-123.64260239	2646.018	EVT	358.720	9.210	We are working on getting the SM2000 back up
2002/09/01	09:56:23	48.54696428	-123.64703668	2646.127	EVT	358.660	9.360	Cycled power to Jason again
2002/09/01	10:01:26	48.55724627	-123.64728351	2646.099	EVT	358.420	9.250	SM2000 appears to be working again
2002/09/01	10:02:21	48.55854162	-123.64263264	2646.208	EVT	358.580	9.480	Continuing on line 3- there will be a gap from when SM2000 crashed
2002/09/01	10:21:20	48.60477158	-123.64271322	2646.066	EVT	0.350	9.310	End of Line 3
2002/09/01	10:55:47	48.59986297	-123.66466418	2646.269	EVT	179.590	9.470	start of line #4
2002/09/01	10:56:54	48.59567217	-123.66460894	2646.194	EVT	179.480	9.380	4-8 watch is now on duty.
2002/09/01	11:19:50	48.52125404	-123.66680125	2646.154	EVT	179.410	9.470	Big fish
2002/09/01	11:59:20	48.36359516	-123.66910903	2646.127	EVT	180.600	9.990	End of line
2002/09/01	12:21:27	48.37091403	-123.63002465	2645.897	EVT	0.190	10.250	Starting line 5
2002/09/01	13:25:23	48.60593911	-123.63218485	2646.052	EVT	359.990	10.010	End line
2002/09/01	13:42:03	48.62525403	-123.68287323	2646.066	EVT	255.870	10.360	S
2002/09/01	13:42:51	48.62510344	-123.68348870	2645.836	EVT	255.860	7.830	disregard - ship has moved 100 meters West
2002/09/01	13:51:27	48.61436827	-123.70016874	2645.985	EVT	180.060	10.700	Heading South toward next line
2002/09/01	13:55:54	48.60520842	-123.70015320	2645.863	EVT	180.310	10.550	Start linw 6
2002/09/01	14:36:49	48.46772717	-123.70013290	2646.120	EVT	180.110	10.550	took background water sample with butterfield sampler bag # 8
2002/09/01	14:43:38	48.44027132	-123.70013664	2646.099	EVT	180.280	10.510	finished aquiring water sample #8
2002/09/01	15:16:07	48.36577081	-123.69955618	2646.755	EVT	26.420	10.070	start of cross line
2002/09/01	15:17:18	48.36878805	-123.69806307	2646.864	EVT	26.940	10.050	start of cross line
2002/09/01	15:44:42	48.46265414	-123.65052086	2646.525	EVT	359.910	10.070	BIO.mnvf Fish
2002/09/01	15:45:05	48.46263787	-123.65052717	2646.573	EVT	359.970	10.140	blank-text

Event log: LEXEN 2002

Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/01	15:45:44	48.46439930	-123.65051249	2646.498	EVT	0.120	10.190	1.82 temp
2002/09/01	16:26:44	48.62681426	-123.65015932	2646.620	EVT	180.150	9.960	1.78-1.87 temp
2002/09/01	16:29:33	48.62946592	-123.64501430	2646.505	EVT	179.840	10.180	at 1627:20 we got maximum temperatures on the ctd
2002/09/01	16:30:44	48.63597883	-123.63346520	2647.506	EVT	40.350	9.000	maximum at 1627:20 was 1.785 degrees
2002/09/01	16:42:46	48.62682437	-123.62457744	2646.661	EVT	180.200	9.950	1640 to 1641, temperature to 1.791
2002/09/01	17:08:40	48.53577034	-123.62649838	2646.465	EVT	180.350	10.070	1.807 temp for 2pts in a row
2002/09/01	17:11:44	48.52161100	-123.62653876	2646.451	EVT	180.270	10.040	BIO.mnvf Fish TXT jelly
2002/09/01	17:28:10	48.46015492	-123.62664563	2646.931	EVT	180.500	9.990	1.8 2points in a row
2002/09/01	17:36:01	48.42546189	-123.62672462	2646.607	EVT	180.410	10.130	
2002/09/01	17:53:11	48.36553549	-123.62681938	2646.661	EVT	179.920	10.110	Jelly fish. Big redd-ish one. Sort of blob-by
2002/09/01	17:53:14	48.36555029	-123.62682223	2646.661	EVT	180.100	10.040	blank-text
2002/09/01	17:53:16	48.36555570	-123.62682473	2646.837	EVT	180.080	10.010	blank-text
2002/09/01	17:54:46	48.36556733	-123.62682432	2646.661	EVT	180.200	10.230	BIO.mnvf Fish TXT Misc rat-tail. Looks very
		lethargic						
2002/09/01	18:03:28	48.34868902	-123.63212059	2646.600	EVT	269.620	10.250	Jellyfish- redish. back a couple of frames
2002/09/01	18:04:17	48.34871156	-123.63587514	2646.776	EVT	269.590	10.210	jellyfish- clear bell
2002/09/01	18:10:04	48.35707056	-123.63216050	2646.674	EVT	269.800	10.170	New - E to W Line started
2002/09/01	18:25:18	48.35784890	-123.67093011	2646.640	EVT	269.900	10.030	salp seen
2002/09/01	18:26:17	48.35786474	-123.67552429	2646.782	EVT	270.070	9.960	turned off the light scattering sensor due to a ground
		fault						
2002/09/01	18:32:42	48.35791242	-123.70449288	2646.681	EVT	269.870	10.040	blank-text
2002/09/01	18:36:14	48.35792590	-123.71129781	2646.566	EVT	270.080	10.030	BIO.svf Serpulids TXT There are a couple 1.780s
		after being v. steady at 1.776						
2002/09/01	18:44:53	48.36085586	-123.72393020	2655.188	EVT	12.610	1.680	We are heading toward Marker 8, which Johnson has
		identified as most promising.						
2002/09/01	19:02:39	48.38669955	-123.72567149	2655.323	EVT	358.560	1.410	BIO.mnvf Holothurians TXT Putting the temperature
		probe in the claw so we can get ready to probe sediments						
2002/09/01	19:07:33	48.40861380	-123.72385060	2653.024	EVT	359.080	3.550	We are moving to the
2002/09/01	19:08:12	48.40836954	-123.72373482	2655.228	EVT	15.430	1.490	We dropped the probe, trying again
2002/09/01	19:19:35	48.41678772	-123.74965014	2654.423	EVT	101.450	2.260	We are waiting for the sediment to settle
2002/09/01	19:25:58	48.41691285	-123.75014799	2654.931	EVT	101.660	1.730	Changed tapes
2002/09/01	19:31:05	48.41714515	-123.75114365	2655.411	EVT	99.340	1.400	Still waiting for sediments to settle
2002/09/01	19:40:47	48.41703456	-123.74910958	2655.573	EVT	90.220	1.310	The SM2000 has performed an illegal operation and
		will be shut down						
2002/09/01	19:43:15	48.41591041	-123.74987049	2655.789	EVT	132.890	0.970	BIO.mnvf Holothurians
2002/09/01	19:45:00	48.41304519	-123.74685690	2655.695	EVT	165.970	1.120	There's a ray
2002/09/01	19:45:24	48.41319326	-123.74668828	2655.600	EVT	320.680	30.000	We are continuing to look for the dropped
		temperature probe						
2002/09/01	19:45:54	48.41399320	-123.74735076	2655.904	EVT	323.650	0.930	BIO.mnvf Holothurians
2002/09/01	19:50:39	48.41560577	-123.74867627	2655.505	EVT	322.180	1.140	Rebooting
2002/09/01	19:51:06	48.41626024	-123.74777245	2655.620	EVT	323.070	1.000	Waiting for the sediment to settle
2002/09/01	19:59:53	48.41912987	-123.74987953	2655.532	EVT	322.550	1.160	BIO.mnvf Holothurians

Event log: LEXEN 2002
Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/01	20:05:33	48.41486515	-123.74872373	2655.776	EVT	322.440	1.020	Still looking for the temperature probe
2002/09/01	20:11:58	48.42069827	-123.74799169	2655.458	EVT	322.070	1.170	We are trying to determine our exact location when the probe was dropped
2002/09/01	20:15:35	47.69586552	-127.80254312	2656.276	EVT	324.230	30.000	We are looking in the hole we first created when we dropped the probe
2002/09/01	20:17:14	47.69736212	-127.80207634	2656.324	EVT	29.210	30.000	We are stirring up more sediment
2002/09/01	20:24:42	48.40626261	-123.71602971	2654.721	EVT	355.540	1.790	We continue to look for the probe
2002/09/01	20:34:04	48.40709845	-123.71831495	2655.350	EVT	355.380	1.400	BIO.mnvf Fish
2002/09/01	20:34:27	48.40696535	-123.72011764	2655.120	EVT	355.300	1.420	BIO.mnvf Holothurians
2002/09/01	20:34:45	48.40684328	-123.72153128	2655.255	EVT	354.920	1.400	Still looking for the probe
2002/09/01	20:34:45	48.40684328	-123.72153128	2655.255	EVT	354.920	1.400	Still looking for the probe
2002/09/01	20:36:04	48.40809892	-123.71885683	2655.370	EVT	355.780	1.510	BIO.mnvf Fish
2002/09/01	20:37:30	48.40860849	-123.71227788	2655.350	EVT	355.350	1.350	Ray!
2002/09/01	20:39:22	48.40943538	-123.71496289	2655.411	EVT	355.640	1.310	Ray again
2002/09/01	20:39:42	48.40933702	-123.71621177	2655.384	EVT	355.520	1.190	Ray yet again
2002/09/01	20:45:34	48.41112027	-123.71327153	2655.384	EVT	355.440	1.350	Still looking for the temperature probe
2002/09/01	20:50:07	48.41133243	-123.71722902	2655.499	EVT	355.540	1.230	We have spied something in the sediment and are moving closer
2002/09/01	20:55:18	48.41163947	-123.72020954	2655.303	EVT	355.470	1.280	We continue to search for the probe in the hole we created when landing
2002/09/01	20:59:09	48.41351040	-123.70955182	2655.316	EVT	355.560	1.430	BIO.mnvf Brittle_Stars
2002/09/01	21:07:00	48.41431708	-123.72156507	2655.363	EVT	354.700	1.380	We are returning to our original hole to look for the temperature probe
2002/09/01	21:16:16	48.41371836	-123.72221308	2656.432	EVT	355.750	30.000	We are using Jason's right arm to stirr up sediment.
2002/09/01	21:18:01	48.41132358	-123.72375940	2656.357	EVT	355.770	30.000	Jason is picking up the Butterfield temperature probe
2002/09/01	21:21:27	48.40761350	-123.72718069	2655.215	EVT	4.290	1.410	We are moving north to target 8
2002/09/01	21:40:37	48.45527383	-123.71340892	2654.586	EVT	9.860	2.070	We are stil heading north, but instead we are now headed to target 3
2002/09/01	21:49:50	48.48908849	-123.71109743	2654.586	EVT	359.920	2.000	We are dropping a target right now
2002/09/01	21:50:19	48.49128632	-123.71085323	2654.829	EVT	0.010	1.890	Target 10 TXT we just marked target 10
2002/09/01	21:53:09	48.50391104	-123.71035670	2654.755	EVT	326.030	1.900	We are 10 ,
2002/09/01	21:53:43	48.50872778	-123.71634215	2653.808	EVT	308.790	2.660	We are 10 meters from target 3, we will drive over it to investigate
2002/09/01	21:55:53	48.50237467	-123.71408056	2653.646	EVT	69.260	3.050	Not temperature anomalies.
2002/09/01	21:56:05	48.50441835	-123.71045546	2654.268	EVT	65.500	2.400	We are moving to targer 8
2002/09/01	21:56:44	48.51125607	-123.70285764	2654.538	EVT	22.400	2.050	Target 8 TXT We are moving to target 8
2002/09/01	22:22:08	48.59815858	-123.69594116	2655.336	EVT	272.790	1.530	We have arrived at targer 8
2002/09/01	22:29:50	48.59124697	-123.69630933	2655.093	EVT	272.890	1.750	Target 8 TXT We have arrived at target 8
2002/09/01	22:32:03	48.58905293	-123.70005386	2655.079	EVT	272.810	1.640	We are moving around target 8 in a 20 meter square
2002/09/01	22:35:11	48.59445718	-123.70246395	2654.931	EVT	273.260	1.800	Mound
2002/09/01	22:35:36	48.59439525	-123.70294409	2655.769	EVT	273.390	1.300	We will fly over the mound
2002/09/01	22:35:59	48.59440871	-123.70346180	2655.600	EVT	272.430	1.240	Close up of the mound

Event log: LEXEN 2002

Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/01	22:38:34	48.59484527	-123.70334511	2655.668	EVT	272.960	1.250	Moving the CTD over the mound
2002/09/01	22:39:23	48.59500396	-123.70434961	2655.526	EVT	272.880	1.290	No temperature increase over the mound
2002/09/01	22:45:17	48.60067958	-123.70404959	2655.688	EVT	273.140	1.360	blank-text
2002/09/01	22:58:20	48.59687719	-123.70436677	2656.466	EVT	273.290	30.000	will soon be heading south to find temperature anomaly
2002/09/01	22:59:26	48.59557912	-123.70657258	2656.303	EVT	273.160	30.000	using temperature probe at the mound
2002/09/01	22:59:41	48.59537860	-123.70666820	2656.459	EVT	273.250	30.000	pierced the sediment with temperature probe
2002/09/01	23:01:26	48.59270723	-123.71014489	2656.560	EVT	273.170	30.000	2.0 TEMP in water column and 2.1 in sediment
2002/09/01	23:02:10	48.59216419	-123.71102902	2656.445	EVT	273.150	30.000	No TEMP anomaly here
2002/09/01	23:02:26	48.59197397	-123.71121656	2656.506	EVT	273.050	30.000	going to the north end of line 3 and head south from there
2002/09/01	23:04:09	48.58591026	-123.71196911	2654.735	EVT	273.020	2.040	going to stay within 2 meters of the bottom
2002/09/01	23:08:44	48.58751308	-123.70466532	2654.599	EVT	66.650	2.270	what is that--tape?
2002/09/01	23:20:28	48.60176800	-123.65861068	2654.626	EVT	103.320	2.090	fish echinoid
2002/09/01	23:24:29	48.59651358	-123.65840871	2654.640	EVT	178.210	2.210	holothurians
2002/09/01	23:26:52	48.59510696	-123.65839874	2654.457	EVT	180.090	2.260	1.8 TEMP anomaly
2002/09/01	23:27:06	48.59402187	-123.65839649	2654.498	EVT	179.630	2.160	highest TEMP was 1.82
2002/09/01	23:27:08	48.59391431	-123.65840822	2654.511	EVT	179.990	2.210	BIO.mnvf Holothurians TXT scyphozoan
2002/09/01	23:27:24	48.59399146	-123.65839335	2654.538	EVT	179.810	2.160	back down to mean of 1.77
2002/09/01	23:30:40	48.58066254	-123.65796689	2655.458	EVT	180.240	1.210	macrourid with depression
2002/09/01	23:31:10	48.57943569	-123.65827422	2655.559	EVT	179.940	1.200	white stuff peeking out below sediment
2002/09/01	23:31:22	48.57916379	-123.65825000	2655.343	EVT	180.170	1.410	no TEMP anomaly
2002/09/01	23:34:56	48.57142860	-123.65822229	2655.729	EVT	181.110	1.110	consistently above 1.79 TEMP
2002/09/01	23:36:47	48.56884528	-123.65834193	2655.424	EVT	181.980	1.410	brief pulse, did not go to 1.8 TEMP
2002/09/01	23:38:32	48.56761896	-123.65841279	2655.573	EVT	182.640	1.160	TEMP 1.8
2002/09/01	23:38:39	48.56700722	-123.65843849	2655.330	EVT	182.960	1.350	only lasted for 3 seconds
2002/09/01	23:40:11	48.55997535	-123.65872959	2655.532	EVT	181.380	1.300	mound
2002/09/01	23:40:37	48.55997698	-123.65881138	2655.532	EVT	181.860	1.300	we see mounds and craters on the seafloor but no temperature anomaly
2002/09/01	23:41:33	48.55833729	-123.65983300	2655.587	EVT	182.260	1.240	we are going to position the CTD over the mound
2002/09/01	23:42:03	48.55688505	-123.65983162	2655.688	EVT	181.620	1.190	1.799 TEMP anomaly
2002/09/01	23:43:30	48.55238144	-123.66000226	2655.519	EVT	181.490	1.540	1.799 TEMP anomaly for 5 seconds
2002/09/01	23:44:00	48.55062456	-123.66055695	2655.397	EVT	181.090	1.400	see something white ahead we are going to it
2002/09/01	23:44:18	48.55019157	-123.66173677	2655.553	EVT	181.300	1.240	can't tell what this is
2002/09/01	23:44:27	48.55015151	-123.66204869	2655.526	EVT	181.770	1.500	white stuff
2002/09/01	23:44:46	48.54975037	-123.66247306	2655.566	EVT	181.400	1.440	this is a core hole!
2002/09/01	23:44:47	48.54975814	-123.66247778	2655.546	EVT	181.640	1.300	core hole
2002/09/01	23:45:09	48.54968718	-123.66245793	2655.674	EVT	181.250	1.230	TEMP 1.79
2002/09/01	23:46:00	48.54951482	-123.66211387	2656.526	EVT	181.770	30.000	1.8 TEMP anomaly but not consistent
2002/09/01	23:46:30	48.55054115	-123.66226967	2656.472	EVT	181.720	30.000	core hole with anthozoan in background
2002/09/01	23:47:00	48.55184232	-123.65868462	2656.479	EVT	181.850	30.000	Target 11 -- probing core hole
2002/09/01	23:47:12	48.55221331	-123.65750889	2656.432	EVT	181.810	30.000	this is target 11 which is 5m south of the hole

Event log: LEXEN 2002
Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/01	23:47:32	48.55189839	-123.65670949	2656.432	EVT	181.790	30.000	putting temperature probe in the core hole
2002/09/01	23:47:45	48.55131909	-123.65573967	2656.540	EVT	181.740	30.000	have to keep moving because medea is marching on
2002/09/01	23:48:30	48.54659497	-123.65522287	2654.498	EVT	181.640	2.200	another 5 second TEMP anomaly
2002/09/01	23:50:37	48.53545082	-123.65558585	2653.443	EVT	181.450	3.410	Paul said this could also have been the site of a heat flow probe
2002/09/01	23:54:01	48.51731291	-123.65594245	2655.505	EVT	181.570	1.330	we might have seen shimmery flow out of the core hole but did not have time to take a temperature
2002/09/01	23:55:32	48.51062736	-123.65611651	2655.492	EVT	181.330	1.400	mounds with holothurian
2002/09/01	23:56:59	48.50775686	-123.65614652	2655.350	EVT	180.220	1.540	1.8 TEMP anomaly
2002/09/01	23:58:15	48.50189901	-123.65620668	2655.397	EVT	180.770	1.610	continuing south for now and continuing south but will stop at intersection with cross line
2002/09/01	23:58:42	48.49978584	-123.65623687	2655.316	EVT	180.730	1.570	intersection is the location of a few temp anomalies
2002/09/01	23:59:37	48.49556260	-123.65626674	2655.451	EVT	180.710	1.500	holothurians
2002/09/02	00:02:48	48.48318647	-123.65635367	2655.255	EVT	180.460	1.580	holothurian
2002/09/02	00:03:48	48.48140821	-123.65637199	2655.309	EVT	180.170	1.650	ship slowed down to stop
2002/09/02	00:05:06	48.47549491	-123.65639724	2655.357	EVT	180.930	1.540	irregular echinoid and black thing
2002/09/02	00:07:13	48.47005179	-123.65642337	2655.472	EVT	180.150	1.620	waiting for medea to swing down
2002/09/02	00:11:08	48.46026643	-123.65652829	2655.357	EVT	180.270	1.590	orange anenome
2002/09/02	00:12:38	48.45581525	-123.65656765	2655.600	EVT	180.360	1.370	white speckled area
2002/09/02	00:12:57	48.45572966	-123.65655987	2655.925	EVT	180.730	1.230	white anenome
2002/09/02	00:15:30	48.45120102	-123.66159192	2655.769	EVT	223.510	1.320	asteroid
2002/09/02	00:16:51	48.45028028	-123.66123156	2655.898	EVT	170.760	1.150	are looking around for interesting bottom features
2002/09/02	00:17:07	48.45035156	-123.66112193	2655.803	EVT	146.620	1.300	pink thing (ophiuroid?)
2002/09/02	00:17:57	48.44878121	-123.65858005	2655.742	EVT	116.580	1.290	A fre
2002/09/02	00:18:05	48.44853176	-123.65809234	2655.762	EVT	116.510	1.260	mound
2002/09/02	00:18:12	48.44836325	-123.65782621	2655.647	EVT	120.690	1.320	TEMP 1.79 for a few seconds
2002/09/02	00:18:50	48.44808514	-123.65742680	2655.701	EVT	183.940	1.280	holothurian
2002/09/02	00:19:10	48.44768553	-123.65743816	2655.715	EVT	180.730	1.400	planning to drive Jason south toward TEMP anomalies
2002/09/02	00:19:55	48.44582162	-123.65748005	2655.769	EVT	180.630	1.230	TEMP mean is up to 1.79
2002/09/02	00:20:15	48.44441337	-123.65749135	2655.722	EVT	180.540	1.420	1.8 TEMP stopping here
2002/09/02	00:20:19	48.44451770	-123.65748501	2655.620	EVT	180.320	1.400	holothurians
2002/09/02	00:20:39	48.44604608	-123.65747431	2655.762	EVT	180.440	1.390	20 seconds TEMP stayed above mean
2002/09/02	00:20:48	48.44591776	-123.65747673	2655.864	EVT	180.490	1.140	possible white elasipod
2002/09/02	00:22:27	48.44658222	-123.65773828	2656.777	EVT	180.700	30.000	getting ready to take a temperature reading here
2002/09/02	00:23:10	48.44895073	-123.65531094	2656.635	EVT	180.690	30.000	temperature probing the sediment
2002/09/02	00:23:26	48.44970801	-123.65447378	2656.743	EVT	180.680	30.000	temperature probe is in the sediment
2002/09/02	00:23:42	48.45043927	-123.65371356	2656.675	EVT	180.680	30.000	no TEMP anomaly
2002/09/02	00:24:23	48.45308143	-123.65098845	2656.790	EVT	180.680	30.000	put temperature probe in another spot
2002/09/02	00:24:46	48.45481029	-123.64926642	2656.736	EVT	180.660	30.000	still no significant TEMP difference
2002/09/02	00:25:12	48.45660725	-123.64721402	2656.871	EVT	180.630	30.000	BUT CTD TEMP showed 1min anomaly above 1.79

Event log: LEXEN 2002
Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/02 00:25:31		48.45707511	-123.64622135	2656.499	EVT	180.420	30.000	no temperature change found with probe although general area is "hot"
2002/09/02 00:25:35		48.45701943	-123.64622636	2656.263	EVT	180.500	0.840	Jason is now heading south on line 3
2002/09/02 00:25:46		48.45700005	-123.64621390	2655.837	EVT	180.700	1.260	TEMP 1.809
2002/09/02 00:26:25		48.45546038	-123.64635570	2655.925	EVT	180.680	1.360	elasipods
2002/09/02 00:28:23		48.45015472	-123.64586544	2655.952	EVT	177.650	1.200	macrourid and holothurian
2002/09/02 00:29:16		48.45001939	-123.64583187	2655.911	EVT	178.310	1.200	1.79 TEMP mean now
2002/09/02 00:29:34		48.44993977	-123.64583468	2656.019	EVT	178.730	1.470	rajid
2002/09/02 00:30:27		48.44886421	-123.64622580	2655.999	EVT	207.160	1.050	Bathyraja sp.
2002/09/02 00:31:12		48.44801117	-123.64655342	2656.107	EVT	192.870	1.270	swimming holothurian
2002/09/02 00:32:28		48.44684802	-123.64669242	2655.931	EVT	193.630	1.220	stelleroid
2002/09/02 00:32:36		48.44617822	-123.64683410	2656.276	EVT	181.280	0.940	1.8 TEMP anomaly
2002/09/02 00:34:01		48.44179768	-123.64796088	2656.080	EVT	183.010	1.310	going to put temperature probe in here
2002/09/02 00:36:04		48.44158794	-123.64771489	2656.817	EVT	179.300	30.000	getting closer to the seafloor with the temp probe
2002/09/02 00:36:23		48.44168343	-123.64778274	2656.709	EVT	179.230	30.000	2.1 TEMP with Butterfield probe
2002/09/02 00:38:02		48.43946276	-123.64836297	2654.707	EVT	230.060	2.440	have stirred up some sediment
2002/09/02 00:40:24		48.43779650	-123.64759657	2655.100	EVT	190.310	2.120	seafloor back in view
2002/09/02 00:42:54		48.43229503	-123.64421302	2655.208	EVT	180.240	2.080	slowly headed south again
2002/09/02 00:46:51		48.42945353	-123.64266595	2655.093	EVT	180.380	2.090	1.812 TEMP anomaly
2002/09/02 00:48:59		48.42651160	-123.64267647	2655.032	EVT	180.300	2.130	back to 1.79 TEMP
2002/09/02 00:49:25		48.42650453	-123.64267591	2655.323	EVT	180.310	2.090	1.79 TEMP mean now
2002/09/02 00:52:49		48.42214965	-123.63861499	2654.958	EVT	180.530	2.330	TEMP 1.802 anomaly
2002/09/02 00:53:16		48.42127110	-123.63860676	2654.917	EVT	180.220	2.250	4 seconds above mean
2002/09/02 00:55:03		48.42093386	-123.63942432	2656.851	EVT	180.310	30.000	TEMP 1.799
2002/09/02 00:55:20		48.42126272	-123.64027648	2656.837	EVT	180.270	30.000	TEMP 1.804
2002/09/02 00:55:42		48.42246437	-123.64145400	2656.662	EVT	180.240	30.000	1 minute above mean
2002/09/02 00:56:15		48.42209567	-123.64141562	2656.824	EVT	180.210	0.790	1.812 temp
2002/09/02 00:57:00		48.42199036	-123.64261961	2656.695	EVT	180.180	30.000	TEMP 1.815
2002/09/02 00:58:11		48.42035865	-123.64540512	2656.756	EVT	179.960	0.810	butterfield sampler used as a temperature probe in the sediments
2002/09/02 00:59:57		48.41931341	-123.64883893	2656.865	EVT	180.060	30.000	TEMP 1.824
2002/09/02 01:00:51		48.42165368	-123.65217095	2656.817	EVT	180.120	30.000	TEMP 2.2 on Butterfield probe
2002/09/02 01:03:04		48.42536104	-123.65904331	2656.750	EVT	180.460	0.950	Going to drop a marker here
2002/09/02 01:03:53		48.42591172	-123.65880448	2656.750	EVT	180.330	30.000	Target 12 - 1.14 TEMP anomaly - 2.2 Butterfield
		probe in sediment						
2002/09/02 01:04:22		48.42561893	-123.65860690	2656.351	EVT	180.280	1.390	Big Big rattail!
2002/09/02 01:08:41		48.41060250	-123.65875102	2655.850	EVT	213.220	1.510	double mounds
2002/09/02 01:10:50		48.41001587	-123.65916501	2655.952	EVT	180.340	1.360	TEMP 1.812 an
2002/09/02 01:11:45		48.40928835	-123.65908849	2656.364	EVT	180.450	1.580	TEMP mean 1.79 values fluctuating a bit
2002/09/02 01:12:21		48.40850295	-123.65917800	2656.242	EVT	179.720	1.230	TEMP 1.8 anomaly
2002/09/02 01:12:38		48.40781974	-123.65939469	2656.357	EVT	180.140	1.470	Last one was only about 10 seconds
2002/09/02 01:13:16		48.40623053	-123.65938979	2656.506	EVT	180.890	1.510	holothurians

Event log: LEXEN 2002

Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/02	01:15:58	48.40133338	-123.65989549	2656.344	EVT	179.920	1.060	vermiculate bottom
2002/09/02	01:16:57	48.40075188	-123.65937480	2656.324	EVT	180.020	1.520	1.8 TEMP isolated event though
2002/09/02	01:18:13	48.40074435	-123.65898348	2656.405	EVT	180.320	0.900	1.8 TEMP anomaly
2002/09/02	01:18:29	48.40075069	-123.65849019	2657.094	EVT	180.590	30.000	"squiggly spots" -- holothurian tracks?
2002/09/02	01:19:46	48.40384848	-123.65434131	2657.149	EVT	180.460	30.000	temperature probe
2002/09/02	01:20:18	48.40181182	-123.65548240	2657.054	EVT	180.480	30.000	taking temperature with Butterfield probe
2002/09/02	01:20:33	48.39989028	-123.65588074	2657.149	EVT	180.500	30.000	temperature probe with macrourid approaching
2002/09/02	01:21:12	48.39858502	-123.65894943	2657.115	EVT	180.490	30.000	TEMP 2.0 to 2.1
2002/09/02	01:22:13	48.39661743	-123.66123267	2657.061	EVT	180.530	30.000	target 13 is the southern end of temp anomalies on
	line 3							
2002/09/02	01:25:21	48.39281378	-123.67094158	2657.013	EVT	180.530	30.000	target 9
2002/09/02	01:25:34	48.39238084	-123.67140317	2657.142	EVT	180.480	30.000	removal of temperature probe from sediment
2002/09/02	01:25:39	48.39220613	-123.67149163	2657.007	EVT	180.480	30.000	target 9=lost temperature probe
2002/09/02	01:29:33	48.39294760	-123.67256943	2656.188	EVT	179.370	1.180	we are now moving to target 9
2002/09/02	01:41:36	48.40303762	-123.70896897	2656.107	EVT	285.400	1.270	getting ready to take a DNA filter sample with
	Butterfield sampler							
2002/09/02	01:43:24	48.40466911	-123.71476772	2656.100	EVT	285.610	1.260	flushed the sampler before taking filter #3
2002/09/02	01:43:40	48.40496903	-123.71580764	2656.161	EVT	285.350	1.360	Bathyraja sp.
2002/09/02	01:44:06	48.40550862	-123.71776076	2656.060	EVT	285.520	1.380	log file named filters.log
2002/09/02	01:44:34	48.40607353	-123.71985864	2656.263	EVT	285.210	1.270	gouges in sediment
2002/09/02	01:45:57	48.40804933	-123.72079714	2656.986	EVT	287.430	30.000	partially filled in heat flow probe hole with
	surrounding cable tracks							
2002/09/02	01:48:01	48.41035132	-123.72805750	2656.033	EVT	287.430	1.550	restarted filter #3
2002/09/02	01:48:13	48.41063332	-123.72894768	2655.918	EVT	286.610	1.440	mounds
2002/09/02	01:48:25	48.41090394	-123.72975558	2655.843	EVT	287.470	1.510	in sight of some mounds
2002/09/02	01:49:55	48.41306435	-123.73641172	2656.100	EVT	288.040	1.420	filter #3 pump rate is slowing down
2002/09/02	01:50:42	48.41414455	-123.73980050	2656.127	EVT	286.910	1.440	mound (biological in origin?)
2002/09/02	01:52:22	48.41624936	-123.74630231	2656.506	EVT	288.070	0.950	yet antoher purple benthic holothurian (possibly
	elasipod)							
2002/09/02	01:54:24	48.41776051	-123.75101129	2656.540	EVT	175.160	1.040	stirring up some sediment stopped filter #3
2002/09/02	01:54:43	48.41753326	-123.75096430	2656.526	EVT	179.420	0.960	macrourid
2002/09/02	01:54:59	48.41620231	-123.75098766	2656.351	EVT	180.320	1.230	holothurian
2002/09/02	01:55:39	48.41379595	-123.75097514	2656.493	EVT	180.160	1.030	polychaete
2002/09/02	01:55:56	48.41249381	-123.75096330	2656.547	EVT	180.380	1.120	BIO.mnvf Holothurians TXT elasipod
2002/09/02	01:56:12	48.41136881	-123.75098905	2656.486	EVT	180.110	1.010	black thing (kelp frond?)
2002/09/02	02:00:13	48.40371675	-123.74863976	2656.337	EVT	110.300	1.370	BIO.m

Event log: LEXEN 2002
Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/02	02:04:54	48.40754745	-123.74730255	2657.047	EVT	336.200	30.000	asteroid at lower left
2002/09/02	02:06:24	48.41058340	-123.74558063	2656.979	EVT	335.890	30.000	trying to recover the temperature probe
2002/09/02	02:09:40	48.41293660	-123.74610954	2657.351	EVT	12.980	30.000	macrourid and ophiuroid
2002/09/02	02:10:15	48.41268705	-123.74633654	2657.378	EVT	11.840	30.000	worm above arm with macrourid in background
2002/09/02	02:11:13	48.41218135	-123.74531721	2657.297	EVT	11.860	30.000	have stirred up a lot of sediment
2002/09/02	02:13:30	48.41438012	-123.74308633	2656.452	EVT	196.960	1.170	continuing the search for the missing probe
2002/09/02	02:13:43	48.41413988	-123.74320814	2656.865	EVT	196.850	30.000	trying to use SM2000 to find lost temp probe
2002/09/02	02:14:12	48.41177308	-123.74396430	2656.729	EVT	196.370	0.850	macrourid
2002/09/02	02:16:30	48.41069397	-123.74706704	2656.797	EVT	341.790	1.440	SM 2000 being used to aid in the search for the
temperature probe								
2002/09/02	02:21:06	48.40862911	-123.74630711	2656.269	EVT	32.720	1.400	still looking for temp probe
2002/09/02	02:21:30	48.40947579	-123.74578806	2656.080	EVT	29.810	1.440	JASON impression
2002/09/02	02:26:27	48.41204863	-123.74533423	2657.250	EVT	30.080	30.000	temperature probe location -- retrieval attempt
2002/09/02	02:27:47	48.41355312	-123.74637081	2657.149	EVT	30.080	30.000	sifting through sediment with Jason arm
2002/09/02	02:28:04	48.41354100	-123.74645324	2657.189	EVT	30.180	30.000	pulling up sediment to get at temperature probe
2002/09/02	02:32:04	48.41513303	-123.74701886	2656.263	EVT	29.870	1.340	macrourid
2002/09/02	02:37:51	48.41508513	-123.74628724	2656.655	EVT	176.830	1.010	pretty sure we saw temp probe
2002/09/02	02:38:03	48.41569140	-123.74632616	2656.709	EVT	176.760	0.940	moving around a couple of meters still in search
2002/09/02	02:40:19	48.41046184	-123.74184106	2657.372	EVT	176.800	30.000	reaching for a possible suspect
2002/09/02	02:40:45	48.40844718	-123.73997322	2657.257	EVT	176.850	30.000	the ongoing quest to recover the missing temp probe
2002/09/02	02:48:15	48.40043780	-123.73979369	2657.338	EVT	177.480	30.000	the aftermath of rooting around for the lost probe
2002/09/02	02:51:10	48.39992586	-123.73733995	2657.243	EVT	177.770	4.740	lights off to provide contrast
2002/09/02	02:52:42	48.40496297	-123.73311844	2657.351	EVT	177.880	30.000	sediment has settled some and we can see the
excavated hole								
2002/09/02	02:59:20	48.39880400	-123.72189809	2657.121	EVT	176.660	0.780	looking for probe
2002/09/02	02:59:32	48.39870636	-123.72168159	2657.257	EVT	160.320	0.760	purple starfish in picture
2002/09/02	03:00:35	48.39919755	-123.72205895	2657.054	EVT	161.590	30.000	the probe?
2002/09/02	03:00:43	48.39917572	-123.72211957	2657.034	EVT	161.630	30.000	possible icl
2002/09/02	03:09:55	48.40128304	-123.72531330	2657.149	EVT	206.070	30.000	glowing?
2002/09/02	03:10:44	48.40124461	-123.72509408	2657.101	EVT	196.670	0.820	white sediments, carbonate?
2002/09/02	03:10:49	48.40122437	-123.72470354	2657.074	EVT	191.110	1.190	BIO.mnvf Fish
2002/09/02	03:13:03	48.39945694	-123.72479371	2657.081	EVT	185.770	30.000	BIO.mnvf Fish TXT rattail
2002/09/02	03:13:09	48.39955392	-123.72485430	2657.007	EVT	185.850	0.790	rattail
2002/09/02	03:14:59	48.39958866	-123.72275073	2654.227	EVT	230.320	3.230	going to marker 4
2002/09/02	03:20:17	48.39869352	-123.72691504	2656.547	EVT	67.580	1.070	correction, we are still looking for the ICL
2002/09/02	03:26:54	48.41109563	-123.71637566	2653.024	EVT	38.640	4.460	we are now on iur way to marker 4
2002/09/02	03:30:23	48.42360979	-123.71201777	2654.991	EVT	38.580	2.460	filter 6 DNA started
2002/09/02	03:32:37	48.42987284	-123.71045642	2656.905	EVT	39.450	30.000	BIO.mnvf Brittle_Stars
2002/09/02	03:32:47	48.43031929	-123.71027055	2656.925	EVT	39.050	30.000	asteroid
2002/09/02	03:37:32	48.44909123	-123.70504638	2654.721	EVT	38.850	2.760	BIO.mnvf Holothurians
2002/09/02	03:38:00	48.45026478	-123.70406985	2655.262	EVT	39.020	2.210	ll on filter 6
2002/09/02	03:41:45	48.45873583	-123.69949850	2655.309	EVT	28.930	1.990	BIO.mnvf Fish

Event log: LEXEN 2002
Dive J2-002

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/02	03:43:32	48.46491806	-123.70167489	2655.377	EVT	28.650	2.040	BIO.mnvf Fish
2002/09/02	03:46:35	48.48170357	-123.69529078	2655.296	EVT	28.380	2.090	pause in sampling of f6
2002/09/02	03:47:16	48.48541149	-123.69337208	2655.303	EVT	29.030	1.980	sampling resumed
2002/09/02	03:53:13	48.50744515	-123.68100256	2656.263	EVT	29.970	1.160	anemone
2002/09/02	03:53:16	48.50761248	-123.68088450	2656.188	EVT	30.480	1.240	stopped at 0352 filter 6
2002/09/02	03:55:13	48.51338657	-123.67700245	2653.984	EVT	35.440	3.240	volume on filter 6, 3.01 l
2002/09/02	03:58:57	48.52851230	-123.67607163	2655.566	EVT	34.820	1.740	BIO.mnvf Holothurians
2002/09/02	04:00:43	48.53588540	-123.67538824	2655.871	EVT	35.180	1.440	unidentified white spots, could be biology holes
2002/09/02	04:01:12	48.53730988	-123.67527680	2656.756	EVT	34.340	30.000	within 20 m of marker 4
2002/09/02	04:04:53	48.54006873	-123.67391149	2656.885	EVT	55.800	30.000	white spot seen earlier
2002/09/02	04:06:42	48.54096491	-123.67267849	2653.159	EVT	65.010	4.110	+
2002/09/02	04:06:48	48.54108146	-123.67243999	2653.409	EVT	65.340	3.800	searching white spot for elevated water 1.8 degrees
2002/09/02	04:07:18	48.54254572	-123.67121911	2655.005	EVT	55.750	2.140	possible source of temp anomaly
2002/09/02	04:07:59	48.54328749	-123.67177159	2655.478	EVT	245.860	1.840	this area also known as target 4
2002/09/02	04:11:16	48.54637700	-123.67672554	2656.777	EVT	347.630	30.000	inserting temp probe at target 4
2002/09/02	04:11:45	48.54701175	-123.67623840	2656.810	EVT	347.630	30.000	preparing to use fluid sampler for temperature measurements
2002/09/02	04:12:41	48.54744475	-123.67624868	2656.695	EVT	347.700	18.410	inserting probe in sediment
2002/09/02	04:12:57	48.54756776	-123.67635591	2656.709	EVT	347.690	30.000	probe in sediment
2002/09/02	04:13:13	48.54785328	-123.67654675	2656.723	EVT	347.600	30.000	temp is 2.1 under sediment
2002/09/02	04:13:45	48.54757011	-123.67687060	2656.729	EVT	347.730	30.000	temp = 2.3
2002/09/02	04:14:01	48.54702286	-123.67712756	2656.750	EVT	347.740	17.760	probe has registered 2.3 degrees
2002/09/02	04:14:03	48.54688569	-123.67712105	2656.750	EVT	347.730	30.000	temp = 2.4
2002/09/02	04:14:49	48.54490834	-123.67777711	2656.614	EVT	347.790	30.000	temperature has reached 2.5 degrees
2002/09/02	04:14:52	48.54477610	-123.67784012	2656.608	EVT	347.770	30.000	background water=1.777
2002/09/02	04:15:08	48.54404067	-123.67833815	2656.628	EVT	347.750	30.000	sediment temp=2.6
2002/09/02	04:16:20	48.54373158	-123.67870832	2656.770	EVT	347.640	30.000	2.6 degrees maximum
2002/09/02	04:19:42	48.54285529	-123.68104551	2656.499	EVT	347.830	1.050	we are done with this site
2002/09/02	04:20:13	48.54585531	-123.68152001	2654.836	EVT	347.920	2.410	going back up, stopping recording
2002/09/02	04:23:53	48.56815074	-123.67755667	2579.807	EVT	6.010	30.000	started filter 10 at 0423
2002/09/02	04:59:26	48.53292158	-123.68785678	1461.985	EVT	113.960	30.000	stopped filter #10 at 1480m
2002/09/02	05:57:30	48.72171950	-123.94863007	1.075	EVT	165.790	30.000	medea on surface
2002/09/02	06:03:14	48.79236442	-123.97556544	1.411	EVT	185.870	30.000	jason on surface
2002/09/02	06:09:22	48.82478927	-123.98912879	0.603	EVT	311.080	30.000	jason on deck

Event log: LEXEN 2002

Dive J2-003

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/03	20:41:38	47.70000000	-127.80000000	0.000	EVT	0.000	0.000	Doing pre-dives for J2-003
2002/09/03	20:50:01	47.70000000	-127.80000000	0.000	EVT	0.000	0.000	Powering up JASON
2002/09/03	20:58:41	47.70001155	-127.80003186	0.863	EVT	309.520	30.000	Continuing pre-dive checks
2002/09/03	21:19:21	47.70000756	-127.80003432	1.157	EVT	299.290	30.000	Pre-dive checks complete
2002/09/03	21:21:06	47.70000415	-127.80003526	1.075	EVT	291.400	30.000	Launching medea
2002/09/03	21:23:38	47.69999931	-127.80003595	1.137	EVT	279.660	30.000	JASON is
2002/09/03	21:23:59	47.70000063	-127.80003602	1.144	EVT	282.730	30.000	JASON is going over the side
2002/09/03	21:25:11	47.69998449	-127.80000186	1.726	EVT	175.140	30.000	JASON is in the water
2002/09/03	21:25:44	47.70005661	-127.80003952	2.575	EVT	178.520	1.760	Pulling the pin
2002/09/03	21:28:13	47.70019022	-127.80019253	46.601	EVT	116.750	30.000	We're heading down
2002/09/03	21:29:51	47.70027390	-127.80058431	61.327	EVT	109.960	30.000	Stopping at 60m
2002/09/03	21:35:16	47.70048846	-127.80137605	73.033	EVT	116.920	30.000	Heading down
2002/09/03	22:47:09	47.70506834	-127.81099061	2596.676	EVT	108.380	30.000	Stopping at 2600 m
2002/09/03	22:52:07	47.70534569	-127.81171733	2607.721	EVT	309.010	30.000	Continuing down
2002/09/03	22:54:01	47.70542444	-127.81179433	2651.807	EVT	309.070	3.830	TEMP went from 1.770 to 1.776 on CTD
2002/09/03	22:54:11	47.70542029	-127.81178933	2654.207	EVT	309.770	2.030	also looks like the pH is going up a little bit
2002/09/03	22:54:15	47.70542127	-127.81178591	2654.288	EVT	309.590	1.840	pH rise
2002/09/03	22:55:13	47.70549701	-127.81185165	2652.895	ASNAP	309.730	3.560	
2002/09/03	22:55:32	47.70552852	-127.81191438	2652.402	EVT	307.980	3.910	the seafloor is in sight
2002/09/03	22:56:36	47.70549632	-127.81198828	2651.901	EVT	308.540	4.590	pH is a tenth of unit higher on the bottom
2002/09/03	22:57:13	47.70549307	-127.81196584	2654.944	ASNAP	308.960	1.460	
2002/09/03	22:59:13	47.70554470	-127.81206725	2653.213	ASNAP	251.210	3.120	
2002/09/03	23:00:09	47.70552426	-127.81220360	2654.254	EVT	251.210	2.070	TEMP up to 1.78
2002/09/03	23:01:13	47.70553808	-127.81231506	2654.633	ASNAP	199.940	1.760	
2002/09/03	23:03:13	47.70551810	-127.81234965	2654.437	ASNAP	122.880	1.970	
2002/09/03	23:04:02	47.70551311	-127.81234316	2654.586	EVT	173.220	1.830	we are looking on the seafloor for a 5 meter spike
2002/09/03	23:04:32	47.70551329	-127.81234791	2654.552	EVT	176.080	1.850	the spike should be close to target 4 and sticking up
	about 6 feet							
2002/09/03	23:05:13	47.70548797	-127.81235098	2654.647	ASNAP	196.300	1.770	
2002/09/03	23:07:13	47.70547852	-127.81235853	2654.369	ASNAP	128.930	1.990	
2002/09/03	23:07:16	47.70547856	-127.81235918	2654.417	EVT	145.830	1.870	we are headed due south toward target 4
2002/09/03	23:09:13	47.70548229	-127.81235501	2654.444	ASNAP	296.540	1.900	
2002/09/03	23:10:30	47.78475182	-127.69271972	2653.883	EVT	322.050	2.390	still looking around
2002/09/03	23:11:13	47.78479135	-127.69276981	2653.396	ASNAP	321.630	2.890	
2002/09/03	23:13:13	47.78493738	-127.69296914	2653.037	ASNAP	285.270	3.280	
2002/09/03	23:15:13	47.78493583	-127.69296365	2654.809	ASNAP	239.440	1.600	
2002/09/03	23:15:13	47.78493583	-127.69296365	2654.809	EVT	239.440	1.600	bottom visible macrourids holothurians and white flat
	anemones present (polynoid polychaete worms in the water column)							
2002/09/03	23:17:13	47.78498277	-127.69295382	2654.687	ASNAP	8.930	1.670	
2002/09/03	23:18:02	47.78497577	-127.69295573	2654.836	EVT	184.710	1.550	trying to use IMAGENEX to find the spike
2002/09/03	23:19:04	47.78488084	-127.69294602	2654.626	EVT	180.260	1.690	nearing bottom

Event log: LEXEN 2002
Dive J2-003

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/03	23:19:13	47.78486918	-127.69294108	2654.917	ASnap	179.050 1.450	
2002/09/03	23:20:30	47.78480757	-127.69293655	2654.782	EVT	180.430 1.640	holothurian
2002/09/03	23:21:13	47.78475982	-127.69293726	2654.755	ASnap	180.680 1.620	
2002/09/03	23:22:15	47.78468952	-127.69293704	2654.707	EVT	180.540 1.640	dorsal view of holothurian
2002/09/03	23:23:13	47.78468199	-127.69288439	2654.789	ASnap	89.960 1.530	
2002/09/03	23:24:27	47.78469504	-127.69282355	2654.904	EVT	64.570 1.540	probable polynoid polychaetes with orange anemone
		on bottom					
2002/09/03	23:25:06	47.78471129	-127.69277822	2654.680	EVT	52.690 1.680	disturbed bottom
2002/09/03	23:25:13	47.78471076	-127.69277930	2654.775	ASnap	35.480 1.580	
2002/09/03	23:27:13	47.78472590	-127.69273055	2654.782	ASnap	61.910 1.690	
2002/09/03	23:29:13	47.78472695	-127.69272830	2654.667	ASnap	264.800 1.630	
2002/09/03	23:30:57	47.78471529	-127.69277090	2654.613	EVT	248.070 1.700	still looking for the spike are now east of target 4
2002/09/03	23:31:07	47.78471157	-127.69278405	2654.802	EVT	248.390 1.470	digital camera has been turned on
2002/09/03	23:31:13	47.78470850	-127.69279580	2654.924	ASnap	248.600 1.540	
2002/09/03	23:33:13	47.78468899	-127.69294605	2654.680	ASnap	307.980 1.680	
2002/09/03	23:35:13	47.78474044	-127.69304231	2654.802	ASnap	245.800 1.570	
2002/09/03	23:35:49	47.78475562	-127.69305981	2654.890	EVT	322.220 1.480	red thing
2002/09/03	23:36:17	47.78477827	-127.69308109	2654.640	EVT	330.320 1.750	are now west of target 4 still looking for spike
2002/09/03	23:36:32	47.78477693	-127.69308025	2654.991	EVT	330.450 1.510	we are close to target 6 now
2002/09/03	23:37:13	47.78477649	-127.69307741	2654.829	ASnap	208.290 1.550	
2002/09/03	23:39:27	47.78469239	-127.69297568	2654.897	EVT	140.470 1.540	got too close to the bottom and stirred up some mud
2002/09/03	23:39:42	47.78469324	-127.69297596	2655.039	EVT	138.320 1.240	touchdown -- sediment disturbed
2002/09/03	23:41:13	47.78466531	-127.69289877	2654.991	ASnap	58.130 1.350	
2002/09/03	23:43:13	47.78472859	-127.69285928	2654.802	ASnap	358.480 1.430	
2002/09/03	23:43:36	47.78475269	-127.69286139	2654.958	EVT	357.720 1.380	pink asteroid
2002/09/03	23:45:13	47.78477337	-127.69286235	2655.032	ASnap	356.030 1.360	
2002/09/03	23:47:13	47.78476995	-127.69295519	2655.100	ASnap	268.060 1.280	
2002/09/03	23:49:09	47.78471964	-127.69295947	2655.086	EVT	188.690 1.330	is that a jason footprint?
2002/09/03	23:49:14	47.78471735	-127.69296046	2655.005	ASnap	188.430 1.350	
2002/09/03	23:49:28	47.78471397	-127.69295935	2655.161	EVT	187.970 1.340	JASON imprint on sediment
2002/09/03	23:49:44	47.78471091	-127.69296003	2655.215	EVT	188.220 1.320	ctenophore
2002/09/03	23:51:14	47.78464337	-127.69296625	2655.059	ASnap	179.300 1.340	
2002/09/03	23:53:14	47.78464447	-127.69287153	2655.161	ASnap	89.040 1.280	
2002/09/03	23:55:14	47.78461711	-127.69284265	2655.188	ASnap	269.470 1.410	
2002/09/03	23:55:23	47.78461753	-127.69285719	2655.019	EVT	268.700 1.470	ship is changing its heading 20 degrees to the south
2002/09/03	23:57:14	47.78459732	-127.69296556	2655.255	ASnap	179.280 1.360	
2002/09/03	23:59:14	47.78459025	-127.69283972	2655.161	ASnap	89.220 1.360	
2002/09/04	00:01:14	47.78459649	-127.69277961	2655.005	ASnap	62.690 1.550	
2002/09/04	00:01:35	47.78459803	-127.69278072	2655.188	EVT	97.560 1.390	we are still searching now southeast of target 4
2002/09/04	00:02:16	47.78459766	-127.69277105	2655.127	EVT	98.360 1.180	holothurian takes flight as sediment is disturbed
2002/09/04	00:03:14	47.78458902	-127.69269832	2655.025	ASnap	353.070 1.330	

Event log: LEXEN 2002
Dive J2-003

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/04	00:05:14	47.78470040	-127.69270025	2654.998	ASNAP 0.330	1.410	
2002/09/04	00:05:46	47.78471724	-127.69270000	2654.910	EVT 0.430	1.550	that is not a jason impression
2002/09/04	00:06:21	47.78471571	-127.69270020	2655.046	EVT 0.230	1.310	large mark in disturbed sediment (not a Jason track)
2002/09/04	00:06:55	47.78473480	-127.69270020	2655.120	EVT 0.250	1.400	possible "impact crater" from the coring operation
2002/09/04	00:07:03	47.78473871	-127.69270041	2654.998	EVT 0.170	1.380	we are about 3 meters above this hole
2002/09/04	00:07:14	47.78474410	-127.69269972	2654.951	ASNAP 0.490	1.480	
2002/09/04	00:07:25	47.78474247	-127.69270031	2655.019	EVT 0.570	1.280	is that the impression of the spike?
2002/09/04	00:09:14	47.78474031	-127.69270118	2654.991	ASNAP 0.200	1.420	
2002/09/04	00:10:03	47.78474120	-127.69271820	2655.025	EVT 41.020	1.370	unusual furrow in the "crater" -- impression of a pipe?
2002/09/04	00:11:14	47.78474062	-127.69270622	2654.978	ASNAP 41.020	1.480	
2002/09/04	00:13:14	47.78472981	-127.69268663	2654.931	ASNAP 93.240	1.470	
2002/09/04	00:15:14	47.78472540	-127.69260643	2654.937	ASNAP 94.610	1.470	
2002/09/04	00:15:23	47.78472546	-127.69260657	2655.086	EVT 94.750	1.300	possiblity that this is the sediment core location
2002/09/04	00:15:53	47.78472453	-127.69260820	2655.079	EVT 5.140	1.410	but Tom says the sediment core was taken 30m east
	target 4						
2002/09/04	00:16:00	47.78472355	-127.69260708	2655.005	EVT 323.520	1.370	macrouriud
2002/09/04	00:16:22	47.78472415	-127.69260521	2655.032	EVT 290.640	1.440	macrourid
2002/09/04	00:16:54	47.78472516	-127.69260559	2655.005	EVT 267.420	1.390	Coryphaenoides
2002/09/04	00:17:14	47.78472478	-127.69260582	2654.964	ASNAP 267.060	1.500	
2002/09/04	00:18:18	47.78472264	-127.69268592	2655.066	EVT 267.290	1.430	COoryphaenoides
2002/09/04	00:19:14	47.78471952	-127.69276443	2654.870	ASNAP 267.010	1.530	
2002/09/04	00:20:29	47.78472493	-127.69279490	2655.242	EVT 357.360	1.280	holothurians, pink asteroid, orange anemone
2002/09/04	00:21:00	47.78474631	-127.69279965	2655.120	EVT 357.720	1.380	planning to go east 30m of target 4 to look for sediment core hole
2002/09/04	00:21:14	47.78474470	-127.69282164	2654.964	ASNAP 356.530	1.530	
2002/09/04	00:21:41	47.78474494	-127.69278205	2655.167	EVT 90.620	1.400	moving the ship due east
2002/09/04	00:22:17	47.78474797	-127.69272267	2655.167	EVT 87.130	1.340	crossing over possible spike site
2002/09/04	00:23:14	47.78475063	-127.69265877	2654.890	ASNAP 87.140	1.460	
2002/09/04	00:24:45	47.78475210	-127.69260951	2655.025	EVT 86.970	1.370	is that a holothurian?
2002/09/04	00:25:14	47.78475235	-127.69260019	2655.309	ASNAP 87.730	1.290	
2002/09/04	00:25:23	47.78475303	-127.69258298	2655.005	EVT 87.350	1.490	vampyroteuthis
2002/09/04	00:25:33	47.78475326	-127.69258060	2654.964	EVT 86.830	1.480	scyphozoan
2002/09/04	00:25:36	47.78475343	-127.69257905	2655.127	EVT 87.000	1.370	jelly!
2002/09/04	00:27:14	47.78475633	-127.69248722	2655.086	ASNAP 86.900	1.350	
2002/09/04	00:29:14	47.78475874	-127.69240982	2655.106	ASNAP 87.330	1.370	
2002/09/04	00:31:01	47.78475887	-127.69240990	2655.012	EVT 81.600	1.360	the second (3m) spike is at target 15
2002/09/04	00:31:14	47.78475946	-127.69241053	2654.877	ASNAP 72.080	1.440	
2002/09/04	00:32:51	47.78478114	-127.69238370	2654.870	EVT 31.370	1.590	the 5m elusive spike is 2m SE of target 4
2002/09/04	00:33:14	47.78477946	-127.69238495	2654.843	ASNAP 31.190	1.470	

Event log: LEXEN 2002

Dive J2-003

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04	00:34:09	47.78477860	-127.69238511	2655.086	EVT	292.320	1.340	macrourid swimming (Bio-notes: Identifications of "echinoid" and "vampyroteuthis" are patently in error, these represent an anemone and a scyphozoan, respectively)
2002/09/04	00:34:51	47.78478009	-127.69238444	2654.890	EVT	200.900	1.500	looking for the sediment core hole
2002/09/04	00:35:11	47.78477464	-127.69238550	2655.019	EVT	184.060	1.370	which should be a mound of disturbed sediments with a hole in the middle
2002/09/04	00:35:14	47.78477127	-127.69238580	2655.012	ASNAP	184.120	1.450	
2002/09/04	00:37:14	47.78469843	-127.69243714	2654.863	ASNAP	218.260	1.550	
2002/09/04	00:38:38	47.78468663	-127.69247960	2655.303	EVT	257.080	1.240	disturbed bottom sediment
2002/09/04	00:39:14	47.78468029	-127.69252020	2655.417	ASNAP	257.040	1.260	
2002/09/04	00:41:14	47.78467582	-127.69252904	2654.768	ASNAP	168.950	1.660	
2002/09/04	00:41:20	47.78467630	-127.69252879	2654.870	EVT	152.660	1.650	big white asteroids
2002/09/04	00:42:05	47.78467501	-127.69253034	2654.870	EVT	93.550	1.570	what is that?
2002/09/04	00:43:14	47.78468677	-127.69251751	2655.005	ASNAP	36.460	1.530	
2002/09/04	00:43:18	47.78468881	-127.69251499	2654.877	EVT	36.580	1.650	possible impression of the sediment core
2002/09/04	00:43:29	47.78469348	-127.69251079	2654.802	EVT	36.100	1.720	but now too cloudy to see
2002/09/04	00:45:14	47.78472063	-127.69243295	2654.802	ASNAP	83.750	1.650	
2002/09/04	00:45:33	47.78472288	-127.69240970	2654.890	EVT	82.720	1.540	we see a depression
2002/09/04	00:46:07	47.78472383	-127.69238898	2654.674	EVT	88.770	1.700	mounds
2002/09/04	00:47:00	47.78472326	-127.69237083	2654.931	EVT	98.740	1.530	possible probe site
2002/09/04	00:47:14	47.78472562	-127.69237374	2654.863	ASNAP	58.330	1.640	
2002/09/04	00:47:34	47.78472224	-127.69237129	2654.897	EVT	23.800	1.530	no this is not fresh enough to be our sediment core hole
2002/09/04	00:49:14	47.78476341	-127.69234583	2654.964	ASNAP	23.530	1.490	
2002/09/04	00:49:20	47.78476650	-127.69234369	2654.782	EVT	23.830	1.620	mounds
2002/09/04	00:49:21	47.78476764	-127.69234249	2654.809	EVT	23.940	1.680	is that it?
2002/09/04	00:51:14	47.78478038	-127.69233449	2654.849	ASNAP	23.970	1.560	
2002/09/04	00:51:25	47.78478005	-127.69233518	2654.748	EVT	23.790	1.760	BIO.mnvf Holothurians
2002/09/04	00:52:00	47.78478074	-127.69233339	2654.958	EVT	193.580	1.520	turning east and looking anew for sediment core hole
2002/09/04	00:53:14	47.78478077	-127.69233383	2654.714	ASNAP	203.840	1.710	
2002/09/04	00:55:14	47.78475873	-127.69236545	2655.052	ASNAP	223.800	1.510	
2002/09/04	00:56:48	47.78472165	-127.69241676	2654.890	EVT	223.730	1.560	white stuff
2002/09/04	00:57:14	47.78472167	-127.69241720	2655.039	ASNAP	223.930	1.490	
2002/09/04	00:58:45	47.78472118	-127.69241908	2654.829	EVT	227.760	1.680	the current plan is to go back to target 4
2002/09/04	00:59:09	47.78471818	-127.69242365	2654.782	EVT	257.740	1.690	and search a 30m radius around target 4
2002/09/04	00:59:14	47.78471787	-127.69242624	2654.978	ASNAP	258.500	1.520	
2002/09/04	01:01:14	47.78471610	-127.69254847	2654.843	ASNAP	270.280	1.610	
2002/09/04	01:03:14	47.78471764	-127.69269361	2654.782	ASNAP	271.040	1.790	
2002/09/04	01:05:14	47.78470946	-127.69280455	2654.822	ASNAP	270.780	1.790	
2002/09/04	01:05:46	47.78470992	-127.69280451	2654.572	EVT	270.890	1.980	Fish
2002/09/04	01:07:14	47.78468308	-127.69284189	2654.721	ASNAP	156.970	1.840	
2002/09/04	01:09:14	47.78473545	-127.69280233	2654.728	ASNAP	100.110	1.770	

Event log: LEXEN 2002
Dive J2-003

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/04	01:11:14	47.78470863	-127.69288441	2654.775	ASNAP	181.490 1.800	
2002/09/04	01:13:14	47.78465634	-127.69280298	2654.680	ASNAP	91.200 1.830	
2002/09/04	01:15:14	47.78473248	-127.69276505	2654.910	ASNAP	0.870 1.800	
2002/09/04	01:15:21	47.78473908	-127.69276446	2654.660	EVT	1.150 1.940	orange thbing
2002/09/04	01:17:14	47.78476446	-127.69285222	2654.890	ASNAP	271.370 1.690	
2002/09/04	01:17:58	47.78476512	-127.69292265	2654.924	EVT	269.340 1.690	What does ASNAP mean? still searching in box
	pattern						
2002/09/04	01:18:17	47.78476347	-127.69292502	2654.890	EVT	181.240 1.690	Jason footprint
2002/09/04	01:19:14	47.78470746	-127.69292413	2654.680	ASNAP	181.310 1.970	
2002/09/04	01:19:50	47.78466531	-127.69292571	2654.883	EVT	181.050 1.800	Bathyrāja sp.
2002/09/04	01:21:14	47.78462982	-127.69287211	2654.843	ASNAP	90.930 1.830	
2002/09/04	01:22:12	47.78462913	-127.69277412	2654.944	EVT	90.860 1.800	blank-text
2002/09/04	01:22:30	47.78462893	-127.69274447	2654.890	EVT	90.660 1.730	blank-text
2002/09/04	01:23:10	47.78464040	-127.69272438	2654.917	EVT	0.630 1.590	ctenophore
2002/09/04	01:23:14	47.78464662	-127.69272453	2654.843	ASNAP	1.010 1.740	
2002/09/04	01:24:26	47.78470926	-127.69272329	2654.606	EVT	0.950 1.960	we are going over the spike-like depression
2002/09/04	01:25:14	47.78470841	-127.69272350	2654.870	ASNAP	0.870 1.760	
2002/09/04	01:26:18	47.78476441	-127.69272220	2654.735	EVT	0.980 1.890	slight temp anomaly 1.795
2002/09/04	01:26:26	47.78476891	-127.69272178	2654.849	EVT	1.140 1.840	Jason impression
2002/09/04	01:26:46	47.78479089	-127.69272182	2654.680	EVT	0.730 1.970	TEMP 1.8
2002/09/04	01:26:53	47.78479071	-127.69271941	2654.680	EVT	16.080 1.860	water temperature anomaly
2002/09/04	01:27:14	47.78479212	-127.69272658	2654.755	ASNAP	233.110 1.800	
2002/09/04	01:27:20	47.78479308	-127.69272208	2654.870	EVT	275.670 1.810	TEMP fluctuating
2002/09/04	01:27:35	47.78478948	-127.69273406	2654.822	EVT	271.170 1.650	another 1.8
2002/09/04	01:28:24	47.78479109	-127.69281773	2654.822	EVT	270.990 1.810	TEMP back down to 1.779
2002/09/04	01:28:58	47.78479173	-127.69287612	2654.775	EVT	270.590 1.890	temp anomaly: 7.98, 7.95
2002/09/04	01:29:05	47.78479201	-127.69288650	2654.843	EVT	270.480 1.850	possibility that the 5m spike is buried under this
	depression?						
2002/09/04	01:29:14	47.78479210	-127.69290253	2654.870	ASNAP	270.410 1.870	
2002/09/04	01:31:11	47.78473780	-127.69296236	2654.870	EVT	181.150 1.940	continuing square search pattern around target 4
2002/09/04	01:31:15	47.78473444	-127.69296258	2654.795	ASNAP	180.840 1.850	
2002/09/04	01:31:41	47.78471061	-127.69296285	2654.640	EVT	180.810 2.100	going over jason impression
2002/09/04	01:33:15	47.78461972	-127.69296497	2654.883	ASNAP	180.990 1.880	
2002/09/04	01:33:16	47.78461729	-127.69296537	2654.910	EVT	181.430 1.880	Bathyrāja sp.
2002/09/04	01:35:15	47.78460245	-127.69283404	2654.789	ASNAP	91.310 1.880	
2002/09/04	01:37:15	47.78462412	-127.69268459	2654.802	ASNAP	1.500 2.020	
2002/09/04	01:39:15	47.78475105	-127.69268259	2654.640	ASNAP	1.460 2.080	
2002/09/04	01:39:17	47.78475310	-127.69268290	2654.626	EVT	0.340 2.080	temperature anomaly: 7.96-7.98
2002/09/04	01:39:50	47.78477446	-127.69268199	2654.951	EVT	0.790 1.730	slight temperature increase over spike impression
2002/09/04	01:41:07	47.78478615	-127.69264220	2654.748	EVT	129.760 1.960	(note: previous figures should be 1.798, 1.796, etc.)
2002/09/04	01:41:15	47.78478860	-127.69264137	2654.849	ASNAP	182.740 1.870	

Event log: LEXEN 2002
Dive J2-003

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04	01:42:30	47.78470943	-127.69264310	2654.687	EVT	183.210	1.970	TEMP mean up to 1.78
2002/09/04	01:43:15	47.78466127	-127.69264492	2654.816	ASNAP	181.250	1.910	
2002/09/04	01:44:42	47.78460033	-127.69264600	2654.748	EVT	180.750	2.030	now doing lines east of original square around target
	4							
2002/09/04	01:45:15	47.78460257	-127.69264726	2654.836	ASNAP	327.640	1.920	
2002/09/04	01:46:59	47.78470828	-127.69264360	2654.843	EVT	10.430	1.860	now headed for target 15 looking for the 3m probe
2002/09/04	01:47:15	47.78472761	-127.69264338	2654.640	ASNAP	10.500	2.150	
2002/09/04	01:48:40	47.78482256	-127.69264089	2654.735	EVT	31.650	2.040	Target TXT thing
2002/09/04	01:49:15	47.78482480	-127.69264116	2654.755	ASNAP	30.770	1.980	
2002/09/04	01:51:15	47.78483532	-127.69263184	2654.775	ASNAP	31.290	2.130	
2002/09/04	01:52:31	47.78490600	-127.69256725	2654.775	EVT	128.560	1.920	ythtj]\
2002/09/04	01:53:15	47.78490156	-127.69257236	2654.917	ASNAP	30.850	1.970	
2002/09/04	01:54:22	47.78491035	-127.69256754	2654.680	EVT	85.210	2.200	crater
2002/09/04	01:54:30	47.78491097	-127.69256316	2654.863	EVT	83.630	1.940	crater
2002/09/04	01:54:37	47.78490815	-127.69255339	2654.849	EVT	82.850	1.850	medea view shows a crater and a pin sticking up
2002/09/04	01:55:15	47.78491101	-127.69251272	2654.829	ASNAP	81.430	1.960	
2002/09/04	01:55:51	47.78491050	-127.69250064	2655.073	EVT	85.330	1.900	Target 15 TXT crater -- the second probe
2002/09/04	01:56:05	47.78491016	-127.69249806	2654.748	EVT	50.680	2.030	crater and imprint of a spike?
2002/09/04	01:56:20	47.78491536	-127.69248619	2654.795	EVT	58.410	1.970	we think this is an old core hole
2002/09/04	01:57:15	47.78493340	-127.69246512	2655.039	ASNAP	28.780	1.830	
2002/09/04	01:57:23	47.78494255	-127.69246099	2654.721	EVT	2.390	1.960	apparently not the second probe, an old core hole
2002/09/04	01:58:21	47.78500197	-127.69242781	2654.890	EVT	8.140	1.940	target 11-same old core hole we saw earlier
2002/09/04	01:58:56	47.78504077	-127.69241322	2654.728	EVT	9.190	1.990	starting piston #4 on Butterfield sampler
2002/09/04	01:59:15	47.78506124	-127.69240522	2654.680	ASNAP	8.390	2.050	
2002/09/04	02:01:15	47.78513182	-127.69238545	2654.789	ASNAP	307.910	1.890	
2002/09/04	02:03:15	47.78508918	-127.69243498	2654.951	ASNAP	218.600	1.850	
2002/09/04	02:04:45	47.78508901	-127.69243500	2654.836	EVT	269.450	1.980	starting a box search pattern around target 15
2002/09/04	02:05:15	47.78508988	-127.69246209	2654.775	ASNAP	269.980	2.030	
2002/09/04	02:07:02	47.78506267	-127.69243326	2654.822	EVT	90.170	2.060	stopped piston #4 691ml max and average temp=2.1
2002/09/04	02:07:15	47.78506300	-127.69243549	2654.633	ASNAP	89.980	2.160	
2002/09/04	02:09:15	47.78506650	-127.69239638	2654.789	ASNAP	44.620	1.990	
2002/09/04	02:11:15	47.78525849	-127.69226665	2654.707	ASNAP	261.860	2.070	
2002/09/04	02:11:22	47.78526045	-127.69226075	2654.822	EVT	267.500	2.000	jason's green track lines have disappeared from nav
								screen making it difficult to do square search
2002/09/04	02:13:15	47.78522380	-127.69228917	2654.890	ASNAP	179.650	1.960	
2002/09/04	02:14:40	47.78521550	-127.69220708	2654.680	EVT	358.980	2.270	large depression\
2002/09/04	02:15:15	47.78522701	-127.69218145	2654.883	ASNAP	0.070	2.060	
2002/09/04	02:15:25	47.78523446	-127.69218293	2654.822	EVT	359.540	2.130	coming upon a depression
2002/09/04	02:15:46	47.78523624	-127.69216792	2654.870	EVT	359.940	2.030	large crater -- possible site of impact of the other
	probe							
2002/09/04	02:16:17	47.78524338	-127.69216984	2654.849	EVT	359.750	2.020	zoomed in

Event log: LEXEN 2002
Dive J2-003

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04	02:16:22	47.78524325	-127.69216965	2654.775	EVT	359.990	2.060	close-up of the center of the crater
2002/09/04	02:17:15	47.78525777	-127.69216961	2654.951	ASNAP	359.670	2.000	
2002/09/04	02:17:19	47.78526231	-127.69216959	2654.680	EVT	359.430	2.140	going to fly over the depression and look for TEMP
		anomalies						
2002/09/04	02:17:27	47.78526456	-127.69216973	2654.572	EVT	359.870	2.330	Jason and a macrourid both investigate the crater
2002/09/04	02:18:38	47.78529160	-127.69217562	2654.775	EVT	233.180	2.050	TEMP 1.8
2002/09/04	02:18:56	47.78528827	-127.69216999	2654.843	EVT	269.960	2.190	TEMP back down to baseline
2002/09/04	02:19:15	47.78528813	-127.69216998	2654.883	ASNAP	269.150	2.070	
2002/09/04	02:20:42	47.78528865	-127.69218368	2654.863	EVT	179.510	2.040	TEMP 1.787
2002/09/04	02:21:15	47.78529708	-127.69217698	2654.545	ASNAP	179.540	2.340	
2002/09/04	02:22:23	47.78525418	-127.69218741	2654.917	EVT	49.060	1.880	close up of crater
2002/09/04	02:23:15	47.78526140	-127.69216982	2655.904	ASNAP	25.570	1.110	
2002/09/04	02:23:26	47.78526174	-127.69217069	2656.297	EVT	25.710	30.000	stirring up sediment at the probe crater
2002/09/04	02:24:06	47.78527136	-127.69217392	2656.459	EVT	25.570	1.020	waiting for the dust to clear then look for shimmery
		flow						
2002/09/04	02:25:15	47.78531022	-127.69218873	2656.452	ASNAP	25.560	1.010	
2002/09/04	02:27:15	47.78539203	-127.69222376	2656.526	ASNAP	25.490	1.030	
2002/09/04	02:27:28	47.78540167	-127.69222698	2656.472	EVT	25.480	1.030	zoomed in to look for flow
2002/09/04	02:28:07	47.78542253	-127.69223539	2656.411	EVT	25.460	0.990	basket being protracted
2002/09/04	02:28:29	47.78542450	-127.69223725	2656.439	EVT	25.540	30.000	macrourid
2002/09/04	02:29:28	47.78539483	-127.69223470	2656.425	EVT	25.520	30.000	target 15 is most likely the spot where the 3m spike
		went in						
2002/09/04	02:30:49	47.78537844	-127.69218965	2656.439	EVT	25.460	30.000	temperature probe at the site of the crater
2002/09/04	02:33:03	47.78540915	-127.69217959	2656.472	EVT	25.330	30.000	taking temperature measurement inside the crater
2002/09/04	02:33:45	47.78540480	-127.69218749	2656.445	EVT	25.280	30.000	background temp is 1.9
2002/09/04	02:33:49	47.78540485	-127.69218900	2656.513	EVT	25.280	30.000	inserting the probe into the crater (background water
		temperature 1.9)						
2002/09/04	02:34:27	47.78540332	-127.69218558	2656.445	EVT	25.270	30.000	Background water temperature 2.1 near the crater
2002/09/04	02:35:04	47.78540163	-127.69220213	2656.472	EVT	25.300	30.000	inserted temp probe into sediment
2002/09/04	02:36:17	47.78538982	-127.69226658	2656.472	EVT	25.220	30.000	15 meter offset between surface navigation and
		seafloor navigation due to travel time						
2002/09/04	02:36:52	47.78538810	-127.69228396	2656.520	EVT	25.220	30.000	Highest temperature in sediment 2.4
2002/09/04	02:37:50	47.78540703	-127.69225941	2656.560	EVT	25.180	30.000	2.6 TEMP inside the crater versus 2.1 TEMP of
		background						
2002/09/04	02:37:57	47.78540910	-127.69225163	2656.486	EVT	25.170	30.000	Target 15 TXT Second probe for temperature inside
		depression						
2002/09/04	02:38:49	47.78543772	-127.69221680	2656.506	EVT	25.130	30.000	highest temp 3.0 inside crater
2002/09/04	02:39:30	47.78545450	-127.69218319	2656.533	EVT	25.090	30.000	inserting temp probe a third time
2002/09/04	02:41:10	47.78552681	-127.69192688	2656.493	EVT	25.050	30.000	up to 3.0 degrees now
2002/09/04	02:41:52	47.78552980	-127.69189760	2656.608	EVT	24.710	1.020	temperature probing the area outside of the
		depression						

Event log: LEXEN 2002
Dive J2-003

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04	02:41:56	47.78553087	-127.69189039	2656.520	EVT	24.710	1.030	on the third deployment we got 2.8
2002/09/04	02:43:18	47.78554710	-127.69182118	2656.547	EVT	24.320	30.000	fourth poke 2.7 degrees
2002/09/04	02:44:43	47.78554900	-127.69181710	2656.439	EVT	25.540	30.000	Temperature probe is covered with sediment
2002/09/04	02:46:21	47.78552902	-127.69184195	2654.937	EVT	25.700	2.130	putting away the ICL
2002/09/04	02:47:15	47.78553462	-127.69183995	2653.517	ASNAP	342.960	3.430	
2002/09/04	02:49:15	47.78552957	-127.69185651	2653.693	ASNAP	342.010	3.310	
2002/09/04	02:51:15	47.78552954	-127.69185617	2653.659	ASNAP	341.900	3.320	
2002/09/04	02:53:15	47.78552958	-127.69185673	2653.768	ASNAP	341.720	3.350	
2002/09/04	02:55:15	47.78552422	-127.69188272	2653.659	ASNAP	251.790	3.530	
2002/09/04	02:57:15	47.78549489	-127.69201533	2653.551	ASNAP	231.480	3.540	
2002/09/04	02:58:54	47.78547432	-127.69210972	2654.626	EVT	232.060	2.490	core hole?
2002/09/04	02:59:15	47.78547142	-127.69211533	2654.626	ASNAP	232.300	2.500	
2002/09/04	02:59:28	47.78547117	-127.69211472	2654.653	EVT	224.890	2.570	20 WSW OF MARKER 15 present pos
2002/09/04	03:00:10	47.78546077	-127.69212882	2654.606	EVT	217.500	2.600	20WSW of marker 15 present position
2002/09/04	03:00:25	47.78546096	-127.69212886	2655.019	EVT	216.630	2.200	closer
2002/09/04	03:01:14	47.78545547	-127.69213338	2655.478	EVT	201.940	1.690	we are looking at this hole for water
2002/09/04	03:01:15	47.78545514	-127.69213381	2655.573	ASNAP	202.190	1.630	
2002/09/04	03:01:50	47.78544737	-127.69213334	2656.337	EVT	182.490	1.430	anemone inside the hole
2002/09/04	03:02:12	47.78544632	-127.69212203	2656.337	EVT	182.490	1.490	anemone in hole, we are also looking for streaming
	water							
2002/09/04	03:02:42	47.78544720	-127.69212454	2656.493	EVT	182.400	0.890	zoomed in
2002/09/04	03:02:53	47.78544810	-127.69212784	2656.452	EVT	182.390	30.000	appears to be shimmering water
2002/09/04	03:03:35	47.78544419	-127.69213333	2656.540	EVT	182.400	30.000	fluid flowing up?
2002/09/04	03:03:58	47.78544102	-127.69214124	2656.628	EVT	182.370	30.000	1.849 on the CTD
2002/09/04	03:05:15	47.78544910	-127.69212802	2656.445	ASNAP	182.400	0.840	
2002/09/04	03:06:36	47.78545070	-127.69212214	2656.493	EVT	182.390	1.350	preparing to grab the ICL
2002/09/04	03:07:15	47.78545018	-127.69212476	2656.655	ASNAP	182.520	0.820	
2002/09/04	03:09:15	47.78545295	-127.69212578	2656.533	ASNAP	182.470	0.830	
2002/09/04	03:10:27	47.78545719	-127.69212595	2656.635	EVT	182.160	1.270	ICL above hole
2002/09/04	03:11:07	47.78545530	-127.69212742	2656.493	EVT	182.200	1.300	ICL in hole
2002/09/04	03:11:16	47.78545473	-127.69212766	2656.574	ASNAP	182.210	1.290	
2002/09/04	03:11:53	47.78545518	-127.69212851	2656.641	EVT	182.190	1.270	2.2 degrees on ICL
2002/09/04	03:13:16	47.78545862	-127.69213325	2656.574	ASNAP	182.180	0.920	
2002/09/04	03:13:26	47.78545924	-127.69213395	2656.479	EVT	182.230	1.270	consistently 1.80-1.83 on the CTD
2002/09/04	03:15:16	47.78546327	-127.69213568	2656.493	ASNAP	182.220	0.900	
2002/09/04	03:15:19	47.78546339	-127.69213537	2656.662	EVT	182.180	0.870	picture of ICL in action
2002/09/04	03:16:00	47.78546304	-127.69213521	2656.526	EVT	181.970	0.930	2.1 degrees and 1.9 degrees
2002/09/04	03:16:15	47.78546307	-127.69213489	2656.547	EVT	182.240	0.880	up to 2.4 degrees
2002/09/04	03:16:32	47.78546327	-127.69213445	2656.614	EVT	182.310	0.890	2.6 degrees
2002/09/04	03:16:46	47.78546409	-127.69213462	2656.547	EVT	182.080	0.860	2.4degrees
2002/09/04	03:16:57	47.78546456	-127.69213422	2656.614	EVT	182.200	0.880	2.6

Event log: LEXEN 2002
Dive J2-003

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04	03:17:06	47.78546435	-127.69213446	2656.540	EVT	182.190	0.890	3.0 degrees
2002/09/04	03:17:16	47.78546470	-127.69213415	2656.621	ASNAp	182.220	0.880	
2002/09/04	03:17:39	47.78546607	-127.69213485	2656.628	EVT	182.280	1.330	probe in center 3.2 degrees
2002/09/04	03:17:48	47.78546631	-127.69213463	2656.581	EVT	182.300	1.320	3.3 degrees
2002/09/04	03:17:59	47.78546683	-127.69213400	2656.567	EVT	182.050	0.860	3.6 degrees
2002/09/04	03:18:15	47.78546745	-127.69213426	2656.614	EVT	181.860	0.860	3.4 degrees
2002/09/04	03:18:27	47.78546752	-127.69213372	2656.499	EVT	181.860	0.890	3.7 degrees
2002/09/04	03:18:51	47.78546650	-127.69213501	2656.689	EVT	181.930	0.870	3.8 degrees
2002/09/04	03:19:14	47.78546341	-127.69213568	2656.594	EVT	181.960	0.870	up to 4.1 degrees
2002/09/04	03:19:16	47.78546285	-127.69213504	2656.520	ASNAp	181.940	0.870	
2002/09/04	03:20:48	47.78545926	-127.69212875	2656.574	EVT	181.930	0.870	4.2 degrees
2002/09/04	03:21:16	47.78545958	-127.69212763	2656.540	ASNAp	181.910	0.870	
2002/09/04	03:22:11	47.78546060	-127.69212690	2656.655	EVT	182.100	1.360	will put Butterfield sampler in hole
2002/09/04	03:23:16	47.78546111	-127.69212661	2656.594	ASNAp	182.400	0.840	
2002/09/04	03:25:11	47.78546160	-127.69212667	2656.526	EVT	182.210	0.840	inserting
2002/09/04	03:25:16	47.78546212	-127.69212578	2656.452	ASNAp	182.180	0.830	
2002/09/04	03:25:30	47.78546154	-127.69212635	2656.594	EVT	182.150	0.940	fluid sampler above hole
2002/09/04	03:26:27	47.78545812	-127.69213459	2656.581	EVT	182.170	30.000	descending probe in hole
2002/09/04	03:27:49	47.78545855	-127.69213212	2656.729	EVT	182.150	30.000	anemone pushed aside and probe dropped into hole
2002/09/04	03:28:18	47.78546008	-127.69213332	2656.601	EVT	182.160	30.000	with the flush pump off, we get 2.2 degrees
2002/09/04	03:29:18	47.78545911	-127.69213424	2656.641	EVT	182.180	30.000	there was no temperature anomaly above the sediment
2002/09/04	03:30:19	47.78545799	-127.69212955	2656.594	EVT	182.170	30.000	shot of the basket
2002/09/04	03:31:09	47.78545958	-127.69212694	2656.641	EVT	182.150	30.000	outlet hoses, no apparent sediment
2002/09/04	03:32:34	47.78546290	-127.69212972	2656.668	EVT	182.160	1.410	exhaust is going downward
2002/09/04	03:33:16	47.78546192	-127.69213071	2656.709	ASNAp	182.190	1.420	
2002/09/04	03:34:55	47.78545979	-127.69213471	2656.628	EVT	182.290	0.860	end look at sam
2002/09/04	03:35:16	47.78545963	-127.69213309	2656.641	ASNAp	182.260	0.810	
2002/09/04	03:35:25	47.78545904	-127.69213434	2656.783	EVT	182.220	0.780	end look at sampler, it was a sediment core
2002/09/04	03:36:16	47.78546396	-127.69213554	2656.574	EVT	182.230	0.800	blank-text
2002/09/04	03:36:30	47.78546486	-127.69213588	2656.682	EVT	182.240	0.790	blank-text
2002/09/04	03:36:32	47.78546492	-127.69213614	2656.614	EVT	182.220	0.800	water is pumping well now, horizontally
2002/09/04	03:36:44	47.78546643	-127.69213595	2656.648	EVT	182.230	0.810	blank-text
2002/09/04	03:37:02	47.78546737	-127.69213651	2656.716	EVT	182.260	30.000	sediment expelled from sampler
2002/09/04	03:37:16	47.78546708	-127.69213670	2656.689	ASNAp	182.170	0.770	
2002/09/04	03:37:54	47.78546602	-127.69213721	2656.709	EVT	182.340	30.000	sampler is pumping after sediment was cleared out
2002/09/04	03:38:48	47.78546473	-127.69213988	2656.695	EVT	182.280	30.000	shaking out sediment
2002/09/04	03:38:50	47.78546486	-127.69213946	2656.804	EVT	182.430	30.000	trying to clear out sampler
2002/09/04	03:39:13	47.78546529	-127.69213868	2656.689	EVT	182.440	30.000	pump is now running backwards
2002/09/04	03:39:18	47.78546579	-127.69213856	2656.709	EVT	182.320	30.000	blank-text
2002/09/04	03:39:53	47.78546378	-127.69213931	2656.783	EVT	182.380	30.000	extreme close up of sampler intake

Event log: LEXEN 2002
Dive J2-003

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04	03:41:49	47.78546600	-127.69213153	2656.723	EVT	182.390	30.000	pump still in reverse
2002/09/04	03:42:05	47.78546625	-127.69213270	2656.655	EVT	182.350	30.000	blank-text
2002/09/04	03:42:28	47.78546666	-127.69213257	2656.567	EVT	182.290	30.000	close up
2002/09/04	03:43:23	47.78546407	-127.69213273	2656.716	EVT	182.340	30.000	can see o-rings, pipe, T probe
2002/09/04	03:44:45	47.78546078	-127.69213026	2656.723	EVT	182.280	30.000	exhaust tube, running forward
2002/09/04	03:45:01	47.78546026	-127.69213046	2656.709	EVT	182.240	30.000	flow looks clean
2002/09/04	03:46:37	47.78546017	-127.69212479	2656.750	EVT	182.220	30.000	moving to near right of hole where there might be more flow
2002/09/04	03:47:53	47.78545949	-127.69212851	2656.702	EVT	182.240	30.000	pump is off, looking for temperature
2002/09/04	03:48:17	47.78545987	-127.69213014	2656.716	EVT	182.230	30.000	pump was on briefly, no temperature anomaly
2002/09/04	03:48:39	47.78546051	-127.69213009	2656.783	EVT	182.250	30.000	lowering probe
2002/09/04	03:49:21	47.78546018	-127.69212873	2656.736	EVT	182.220	30.000	sample pump on
2002/09/04	03:52:04	47.78546240	-127.69212041	2656.844	EVT	182.210	30.000	water sample filtered bag sample 11 started
2002/09/04	03:53:21	47.78546262	-127.69211887	2656.865	EVT	182.160	30.000	exhaust picture clear
2002/09/04	03:53:24	47.78546274	-127.69211855	2656.810	EVT	182.210	30.000	exhaust
2002/09/04	03:59:45	47.78546225	-127.69210233	2656.682	EVT	182.170	30.000	stopped bf1 l
2002/09/04	04:00:52	47.78546053	-127.69209804	2656.804	EVT	182.170	30.000	filter 3 sterivex next sample
2002/09/04	04:01:01	47.78546060	-127.69209808	2656.770	EVT	182.170	30.000	started f3
2002/09/04	04:02:54	47.78545992	-127.69208968	2656.770	EVT	182.170	30.000	temperature up to 2.2 degrees
2002/09/04	04:04:12	47.78545825	-127.69208479	2656.817	EVT	182.140	30.000	sample stalled, now restarted
2002/09/04	04:06:02	47.78546467	-127.69208355	2656.790	EVT	182.180	30.000	stalled sample again
2002/09/04	04:06:30	47.78546597	-127.69208197	2656.905	EVT	182.170	30.000	restarted sample
2002/09/04	04:09:56	47.78547702	-127.69207089	2656.817	EVT	182.170	30.000	sample stopped 750 ml
2002/09/04	04:10:14	47.78547745	-127.69206990	2656.810	EVT	182.190	30.000	next sample bag 19
2002/09/04	04:11:28	47.78548045	-127.69206554	2656.865	EVT	182.170	30.000	just started b19
2002/09/04	04:12:25	47.78548159	-127.69206002	2656.865	EVT	182.180	30.000	correct volume on f3 was 755 ml
2002/09/04	04:13:04	47.78548185	-127.69205964	2656.777	EVT	182.190	30.000	blank-text
2002/09/04	04:13:36	47.78548305	-127.69205807	2656.729	EVT	182.190	30.000	picture of arm, probe, hole and anenome remains
2002/09/04	04:14:07	47.78548470	-127.69205692	2656.858	EVT	182.200	30.000	probe on top of sediment
2002/09/04	04:15:46	47.78548758	-127.69205188	2656.865	EVT	182.200	30.000	close up of anenome
2002/09/04	04:17:29	47.78548433	-127.69204870	2656.851	EVT	182.190	30.000	bag 19 complete
2002/09/04	04:17:42	47.78548361	-127.69204973	2656.905	EVT	182.160	30.000	done with sampling
2002/09/04	04:18:02	47.78548377	-127.69205168	2656.878	EVT	182.190	30.000	close up of anenome
2002/09/04	04:23:50	47.78549114	-127.69203803	2655.363	EVT	182.410	2.170	anenone
2002/09/04	04:24:19	47.78549011	-127.69203847	2655.559	EVT	76.670	2.000	moving off to take push cores
2002/09/04	04:25:02	47.78549931	-127.69198541	2655.735	EVT	76.060	1.810	push core will be taken 10 m east of hole
2002/09/04	04:31:37	47.78553245	-127.69182309	2656.973	EVT	77.530	30.000	distance shot of hole
2002/09/04	04:33:52	47.78553154	-127.69182559	2656.797	EVT	77.510	0.840	moving out basket to grab push core
2002/09/04	04:35:37	47.78553332	-127.69182850	2656.939	EVT	77.440	30.000	red and white handled push core first
2002/09/04	04:36:30	47.78553352	-127.69182885	2656.858	EVT	77.500	0.950	push core before sampling
2002/09/04	04:38:04	47.78553109	-127.69183235	2656.804	EVT	77.430	0.830	push core before sampling\

Event log: LEXEN 2002
Dive J2-003

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04	04:39:18	47.78553040	-127.69183440	2656.756	EVT	77.510	0.780	push core #5
2002/09/04	04:40:09	47.78552934	-127.69183229	2656.844	EVT	79.160	0.780	brittle star in background
2002/09/04	04:40:24	47.78552918	-127.69183216	2656.871	EVT	79.210	30.000	push core in sediment
2002/09/04	04:40:59	47.78552695	-127.69183289	2657.027	EVT	77.950	0.870	push core coming out
2002/09/04	04:43:13	47.78551873	-127.69189742	2656.898	EVT	77.580	30.000	push core 5 in holster
2002/09/04	04:47:33	47.78549013	-127.69201641	2656.844	EVT	77.720	0.850	preparing to take push core 23
2002/09/04	04:48:33	47.78547851	-127.69201969	2656.892	EVT	77.770	0.860	correction push core 21
2002/09/04	04:49:10	47.78547708	-127.69201711	2657.067	EVT	77.350	30.000	push core 21 taken
2002/09/04	04:50:06	47.78549426	-127.69201103	2656.939	EVT	77.570	30.000	push core 21 in holster
2002/09/04	04:55:24	47.78560305	-127.69212146	2655.580	EVT	319.910	1.920	moving to marker 4 to take another push core and
		sediment temperature						
2002/09/04	04:56:13	47.78557061	-127.69211689	2655.816	EVT	170.730	1.760	another 40 m to go
2002/09/04	05:00:04	47.78544991	-127.69219688	2654.403	EVT	171.080	3.060	trash with anenomes growing on it
2002/09/04	05:04:24	47.78529664	-127.69240157	2654.877	EVT	189.690	2.710	looks like our target crater
2002/09/04	05:06:37	47.78524246	-127.69241577	2656.885	EVT	255.740	30.000	will take a sediment temperature measurement here
2002/09/04	05:14:05	47.78520327	-127.69244038	2657.013	EVT	259.810	30.000	dropped temp probe
2002/09/04	05:14:23	47.78520214	-127.69244039	2656.946	EVT	259.810	30.000	oops
2002/09/04	05:17:52	47.78520256	-127.69243819	2657.054	EVT	259.810	30.000	picked up probe again, looking for hole
2002/09/04	05:22:08	47.78519996	-127.69243401	2656.919	EVT	259.840	30.000	ICL in sediment
2002/09/04	05:23:14	47.78520072	-127.69242978	2656.952	EVT	259.590	0.810	temp max=3.1
2002/09/04	05:23:17	47.78520075	-127.69242969	2657.007	EVT	259.560	0.810	lined up again and buried, 2.6 degrees
2002/09/04	05:23:27	47.78520166	-127.69242811	2657.027	EVT	259.560	0.810	3.4 degrees
2002/09/04	05:23:36	47.78520256	-127.69242707	2657.101	EVT	259.550	0.810	3.6 degrees
2002/09/04	05:23:49	47.78520304	-127.69242647	2657.094	EVT	259.540	30.000	3.7 degrees
2002/09/04	05:24:08	47.78520383	-127.69242469	2656.912	EVT	259.550	0.810	3.8 degrees, then 4.0
2002/09/04	05:24:43	47.78520491	-127.69242361	2657.007	EVT	259.430	30.000	4.1 degees
2002/09/04	05:24:55	47.78520417	-127.69242313	2657.040	EVT	259.380	0.810	4.2 degees
2002/09/04	05:25:07	47.78520302	-127.69242212	2656.939	EVT	259.350	30.000	4.3 degrees
2002/09/04	05:25:14	47.78520229	-127.69242163	2657.007	EVT	259.370	0.800	4.6 degrees
2002/09/04	05:25:26	47.78520191	-127.69242030	2657.034	EVT	259.350	30.000	4.7 degrees
2002/09/04	05:25:52	47.78520082	-127.69241848	2657.067	EVT	259.340	0.800	4.8 degrees
2002/09/04	05:26:13	47.78519943	-127.69241649	2657.040	EVT	259.320	0.800	4.9 degrees
2002/09/04	05:26:50	47.78519827	-127.69241384	2657.088	EVT	259.320	0.800	T max 4.9 degrees
2002/09/04	05:27:34	47.78519807	-127.69241152	2657.081	EVT	259.800	0.800	maximum ctd was 1.780 on vehicle
2002/09/04	05:28:32	47.78519898	-127.69241172	2657.067	EVT	259.830	0.870	p
2002/09/04	05:29:02	47.78519936	-127.69241253	2656.966	EVT	259.830	0.850	probe stowed, next push core
2002/09/04	05:29:39	47.78519930	-127.69241348	2656.662	EVT	259.880	0.950	moving 5 m in the direction of marker 5
2002/09/04	05:38:33	47.78518705	-127.69234185	2656.871	EVT	91.270	1.200	remaining push core to be taken
2002/09/04	05:39:09	47.78518717	-127.69234209	2656.797	EVT	91.320	30.000	push core complete
2002/09/04	05:39:34	47.78518691	-127.69234212	2656.885	EVT	91.290	0.870	push core removed from sediment
2002/09/04	05:40:36	47.78518833	-127.69234611	2656.858	EVT	91.070	0.980	another shot of push core

Event log: LEXEN 2002
Dive J2-003

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04 05:43:16		47.78519089	-127.69234992	2656.925	EVT	91.010	1.010	we are now heading off to marker 5 to pick up wood samples
2002/09/04 05:43:57		47.78519176	-127.69234842	2656.878	EVT	90.980	1.010	correction: going to marker 5 to drop wood
2002/09/04 06:03:05		47.78515075	-127.69116879	2655.303	EVT	107.710	2.140	found marker
2002/09/04 06:03:46		47.78515076	-127.69116852	2655.404	EVT	107.730	2.090	visual of marker
2002/09/04 06:04:19		47.78515044	-127.69116864	2655.242	EVT	107.940	2.180	arm swung out
2002/09/04 06:05:30		47.78515062	-127.69116904	2655.377	EVT	108.070	2.130	grabbing wood package
2002/09/04 06:07:24		47.78515087	-127.69116835	2655.445	EVT	107.770	2.040	deploying wood
2002/09/04 06:10:40		47.78514139	-127.69112554	2656.303	EVT	107.560	1.320	setting down wood next to nav marker
2002/09/04 06:12:14		47.78514154	-127.69112588	2656.276	EVT	107.420	1.340	wood deployed
2002/09/04 06:14:25		47.78514197	-127.69113074	2656.222	EVT	169.160	1.330	moving to marker 14 to look for lost probe
2002/09/04 06:14:55		47.78514183	-127.69112815	2655.127	EVT	211.960	2.300	taking background water sampler on the way, starting now
2002/09/04 06:19:02		47.78501576	-127.69126638	2655.465	EVT	216.140	2.000	correction, starting now with filter 6 (DNA)
2002/09/04 06:28:20		47.78469218	-127.69161323	2655.384	EVT	215.930	2.090	Filter 6 Done. stopping
2002/09/04 06:29:57		47.78465573	-127.69165241	2655.587	EVT	215.860	1.830	BIO.mnvf Fish TXT dark color, very cool light stripe on top.. could be trick of light
2002/09/04 06:36:40		47.78423365	-127.69213249	2654.092	EVT	215.630	3.360	BIO.mnvf Fish
2002/09/04 06:37:21		47.78419677	-127.69217228	2654.302	EVT	216.190	3.090	Sample: Unfiltered, bag #16
2002/09/04 06:41:18		47.78405302	-127.69242799	2654.390	EVT	217.920	3.060	Strange bottom feature... ??
2002/09/04 06:41:40		47.78404885	-127.69243221	2655.201	EVT	217.950	2.160	"another one of those curved things" Janet
2002/09/04 06:44:03		47.78398158	-127.69250107	2655.357	EVT	212.670	2.120	Bag #16 stopped - near strange bottom formation..
2002/09/04 06:45:20		47.78378040	-127.69273668	2654.058	EVT	212.140	3.160	starting unfiltered bag 8
2002/09/04 06:51:50		47.78337507	-127.69330340	2654.180	EVT	211.460	3.260	stopping bag 8
2002/09/04 08:14:47		47.78226821	-127.69396790	2656.594	EVT	178.410	30.000	Jason is raking through the mud
2002/09/04 08:25:51		47.78227197	-127.69378950	2656.182	EVT	177.750	30.000	Jason dropped the rake
2002/09/04 08:40:11		47.78204942	-127.69431225	2624.169	EVT	215.970	30.000	we begin our ascent now
2002/09/04 08:44:00		47.78226765	-127.69453179	2499.934	EVT	222.880	30.000	RNA filter #10 being started
2002/09/04 08:57:44		47.78227754	-127.69456684	2033.002	EVT	241.520	30.000	lost comms with fluid sampler
2002/09/04 08:58:02		47.78227754	-127.69456684	2022.382	EVT	237.970	30.000	Turned off fluid sampler
2002/09/04 09:02:18		47.78227754	-127.69456684	1878.483	EVT	226.830	30.000	Sample
2002/09/04 09:02:30		47.78227754	-127.69456684	1871.880	EVT	226.870	30.000	sample for filter #10 is done
2002/09/04 10:16:49		47.78227754	-127.69456684	12.353	EVT	339.030	30.000	Medea is visible on the surface
2002/09/04 10:17:31		47.78227754	-127.69456684	1.068	EVT	338.700	30.000	Jason is visible on the surface
2002/09/04 10:18:43		47.78227754	-127.69456684	0.459	EVT	254.450	30.000	Medea out of the water
2002/09/04 10:25:48		47.78227754	-127.69456684	0.205	EVT	343.270	30.000	Jason is out of the water
2002/09/04 10:28:06		47.78227754	-127.69456684	0.445	EVT	90.820	30.000	Jason on deck

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04	17:08:00	47.70000000	-127.80000000	0.000	EVT	0.000	0.000	preparing for launch
2002/09/04	17:20:07	47.78231016	-127.69458068	0.678	EVT	313.040	30.000	medea off the deck
2002/09/04	17:21:24	47.78230993	-127.69458092	0.746	EVT	312.520	30.000	medea in the water
2002/09/04	17:23:17	47.78231603	-127.69455861	2.068	EVT	218.610	30.000	jason in the water
2002/09/04	17:27:14	47.78288841	-127.69466303	56.459	EVT	180.800	30.000	in water
2002/09/04	17:44:36	47.78443421	-127.69597815	437.521	EVT	111.970	30.000	sonar head warning, overheaded
2002/09/04	18:13:11	47.78483952	-127.70038205	1498.170	EVT	84.760	30.000	big jellyfish swam by
2002/09/04	18:16:04	47.78491639	-127.70088856	1604.896	EVT	88.090	30.000	ANOTHER JELLYFISH
2002/09/04	18:33:20	47.78575809	-127.70375057	2248.565	EVT	92.570	30.000	SM2000 has been down since the warning and might not be available for the dive.
2002/09/04	18:40:22	47.78601454	-127.70457577	2501.233	EVT	77.440	30.000	2500 meters
2002/09/04	18:41:43	47.78602252	-127.70468298	2501.388	EVT	93.050	30.000	jel
2002/09/04	18:42:32	47.78602340	-127.70473806	2500.109	EVT	91.430	30.000	in previous frame grab-jellyfish
2002/09/04	18:48:56	47.78607155	-127.70524257	2499.311	EVT	95.980	30.000	hanging out at 2500m
2002/09/04	18:58:05	47.78622320	-127.70602696	2518.318	EVT	96.860	30.000	Going down to the bottom
2002/09/04	19:04:05	47.78899982	-127.67967962	2628.382	EVT	83.060	30.000	Passing 2600m
2002/09/04	19:04:25	47.78900411	-127.67970185	2633.914	EVT	85.980	28.160	There was a temp minimum at 2500 m- 1.767 and the temperature has been increasing ever since
2002/09/04	19:05:42	47.78898048	-127.67948425	2644.855	EVT	252.850	17.550	We are 16 m off the bottom
2002/09/04	19:05:58	47.78896094	-127.67962237	2647.087	EVT	254.410	15.580	The temp here is 1.781
2002/09/04	19:06:04	47.78895578	-127.67965036	2648.527	ASNAP	254.880	13.730	
2002/09/04	19:07:03	47.69996907	-127.80018075	2660.056	EVT	254.270	2.560	Visual contact with bottom
2002/09/04	19:07:46	47.69996664	-127.80021208	2661.598	EVT	254.160	0.950	We see a track of some kind
2002/09/04	19:08:04	47.69996444	-127.80021137	2661.794	ASNAP	278.430	1.270	
2002/09/04	19:09:48	47.71334714	-127.78654060	2659.711	EVT	331.350	2.910	It's getting warmer-1.788
2002/09/04	19:10:04	47.71337094	-127.78655102	2660.097	ASNAP	331.570	2.500	
2002/09/04	19:11:06	47.71343535	-127.78655514	2660.056	EVT	315.030	2.470	CTD 1.780
2002/09/04	19:11:48	47.71338745	-127.78664718	2660.245	EVT	241.370	2.450	It's warming up again-1.789
2002/09/04	19:12:04	47.71334014	-127.78671052	2660.401	ASNAP	241.820	2.200	
2002/09/04	19:12:56	47.71326907	-127.78688405	2659.901	EVT	314.080	2.660	CTD temperature 1.792
2002/09/04	19:13:18	47.71329973	-127.78693204	2660.029	EVT	321.230	2.650	It's generally getting warmer as we head north (324)
2002/09/04	19:14:04	47.71331845	-127.78694558	2659.988	ASNAP	324.030	2.590	
2002/09/04	19:16:04	47.71331844	-127.78694550	2660.049	ASNAP	324.170	2.580	
2002/09/04	19:18:04	47.71331864	-127.78694550	2660.043	ASNAP	324.290	2.590	
2002/09/04	19:18:56	47.71335624	-127.78690180	2660.137	EVT	324.040	2.420	CTD 1.797
2002/09/04	19:19:07	47.71336755	-127.78691857	2659.982	EVT	323.940	2.560	Max so far is 1.798
2002/09/04	19:19:07	47.71336755	-127.78691857	2659.982	EVT	323.940	2.560	Max so far is 1.798
2002/09/04	19:20:04	47.71351709	-127.78705560	2659.596	ASNAP	309.050	3.010	
2002/09/04	19:22:04	47.71352020	-127.78705724	2660.272	ASNAP	355.010	2.390	
2002/09/04	19:22:31	47.71352181	-127.78705400	2660.360	EVT	42.910	2.330	We're stirring up a big cloud of sediment
2002/09/04	19:23:02	47.71353962	-127.78702785	2660.158	EVT	46.220	2.360	CTD 1.797

Event log: LEXEN 2002

Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/04	19:24:04	47.71355027	-127.78701005	2656.831	ASnap	46.230 6.410	
2002/09/04	19:25:44	47.71355019	-127.78701124	2656.155	EVT	220.840 6.480	We are looking for the summit of Baby Bare
2002/09/04	19:26:04	47.71354950	-127.78701261	2656.114	ASnap	140.930 6.530	
2002/09/04	19:28:04	47.71355036	-127.78701138	2656.168	ASnap	144.710 6.520	
2002/09/04	19:30:04	47.71354952	-127.78701080	2657.061	ASnap	297.730 5.320	
2002/09/04	19:32:04	47.71371551	-127.78686511	2659.759	ASnap	38.050 2.840	
2002/09/04	19:33:19	47.71376947	-127.78679427	2660.813	EVT	38.060 1.800	Sediment covered bottom with animals on it
2002/09/04	19:34:04	47.71382327	-127.78672924	2660.604	ASnap	19.060 1.930	
2002/09/04	19:34:57	47.71378400	-127.78676017	2660.692	EVT	228.470 1.870	We continue to search for the summit
2002/09/04	19:36:04	47.71358836	-127.78700827	2660.124	ASnap	192.240 2.490	
2002/09/04	19:38:04	47.71342899	-127.78705438	2659.387	ASnap	191.770 3.220	
2002/09/04	19:40:04	47.71342905	-127.78705521	2659.265	ASnap	191.890 3.230	
2002/09/04	19:40:44	47.71342922	-127.78705470	2659.366	EVT	191.910 3.220	CTD 1.8 while going south
2002/09/04	19:41:31	47.71342823	-127.78704964	2659.272	EVT	191.780 3.250	CTD 1.806
2002/09/04	19:42:04	47.71342161	-127.78700387	2659.245	ASnap	192.010 3.270	
2002/09/04	19:44:04	47.71338088	-127.78663641	2659.562	ASnap	188.780 2.960	
2002/09/04	19:45:24	47.71338209	-127.78664799	2659.231	EVT	169.600 3.220	Very sharp increases in CTD- up to 1.797
2002/09/04	19:46:04	47.71338217	-127.78664747	2659.312	ASnap	169.590 3.200	
2002/09/04	19:46:13	47.71338136	-127.78664781	2659.407	EVT	169.430 3.160	CTD is 1.808
2002/09/04	19:46:20	47.71337633	-127.78664582	2659.339	EVT	169.900 3.220	CTD 1.811
2002/09/04	19:48:04	47.71328753	-127.78662176	2659.407	ASnap	169.490 3.240	
2002/09/04	19:50:04	47.71319948	-127.78659781	2659.130	ASnap	169.400 3.320	
2002/09/04	19:50:59	47.71317630	-127.78659093	2659.319	EVT	169.680 3.220	In case it wasn't noted, the SM2000 is down
2002/09/04	19:52:04	47.71310328	-127.78657102	2659.333	ASnap	169.140 3.240	
2002/09/04	19:53:10	47.71302981	-127.78655172	2659.461	EVT	185.200 3.120	The sonar says we're going in the right direction
2002/09/04	19:54:04	47.71298600	-127.78655356	2659.502	ASnap	184.710 2.920	
2002/09/04	19:56:04	47.71288821	-127.78656506	2659.204	ASnap	184.410 3.210	
2002/09/04	19:57:59	47.71281546	-127.78657363	2659.400	EVT	184.620 3.060	CTD is not getting any hotter
2002/09/04	19:58:04	47.71280875	-127.78657476	2659.380	ASnap	184.790 3.050	
2002/09/04	20:00:04	47.71267536	-127.78659017	2659.285	ASnap	184.600 2.970	
2002/09/04	20:00:06	47.71267312	-127.78659033	2659.312	EVT	184.690 2.990	There is some seriously thick marine snow here
2002/09/04	20:00:41	47.71263340	-127.78659474	2659.130	EVT	184.760 3.000	Tilt just stopped working
2002/09/04	20:00:56	47.71261767	-127.78659657	2659.475	EVT	184.250 2.750	We can see the interface between sediment and rock
2002/09/04	20:02:04	47.71261902	-127.78659482	2656.547	ASnap	184.950 5.550	
2002/09/04	20:03:48	47.71261924	-127.78659705	2655.823	EVT	184.670 6.240	BIO.mnvf Fish
2002/09/04	20:04:02	47.71261927	-127.78659673	2655.614	EVT	184.630 6.430	CTD is at 1.79
2002/09/04	20:04:04	47.71261934	-127.78659645	2655.539	ASnap	184.550 6.380	
2002/09/04	20:06:04	47.71258776	-127.78660364	2653.348	ASnap	200.510 8.430	
2002/09/04	20:07:49	47.71255045	-127.78659765	2652.956	EVT	195.470 7.400	We are trying to fix the Tilt of the Pan and Tilt
Camera							
2002/09/04	20:08:04	47.71254081	-127.78660142	2653.206	ASnap	195.230 6.380	

Event log: LEXEN 2002**Dive J2-004**

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04	20:08:53	47.71252682	-127.78660725	2653.112	EVT	195.350	5.400	Pan and Tilt is now working
2002/09/04	20:09:04	47.71252504	-127.78660825	2653.044	EVT	195.250	5.190	Going to the highest ground around
2002/09/04	20:10:04	47.71251797	-127.78661073	2653.173	ASNAp	195.450	4.640	
2002/09/04	20:12:04	47.71247159	-127.78662913	2653.085	ASNAp	195.280	3.100	
2002/09/04	20:14:04	47.71238706	-127.78666404	2653.240	ASNAp	155.650	4.080	
2002/09/04	20:15:20	47.71239313	-127.78661858	2652.713	EVT	153.630	3.520	Still searching among the rocks
2002/09/04	20:16:04	47.71237003	-127.78657236	2648.953	ASNAp	153.470	5.600	
2002/09/04	20:18:04	47.71225642	-127.78647742	2645.836	ASNAp	153.580	3.640	
2002/09/04	20:20:04	47.71220291	-127.78643798	2644.828	ASNAp	153.880	3.340	
2002/09/04	20:21:36	47.71219389	-127.78643092	2644.713	EVT	153.450	3.290	Our depth is slowly getting shallower
2002/09/04	20:22:04	47.71219395	-127.78643165	2644.619	ASNAp	153.660	3.450	
2002/09/04	20:24:04	47.71219239	-127.78643023	2644.909	ASNAp	153.770	3.060	
2002/09/04	20:26:04	47.71214202	-127.78650320	2643.861	ASNAp	152.320	4.100	
2002/09/04	20:28:04	47.71202478	-127.78642020	2639.567	ASNAp	153.910	5.070	
2002/09/04	20:30:04	47.71193546	-127.78639055	2636.017	ASNAp	153.440	5.520	
2002/09/04	20:31:40	47.71185380	-127.78637201	2632.054	EVT	154.140	6.050	We're continuing our search for the summit.
2002/09/04	20:31:49	47.71184557	-127.78638376	2631.662	EVT	153.820	6.450	We can see the fault scarp
2002/09/04	20:32:04	47.71182498	-127.78638897	2631.297	ASNAp	153.610	6.350	
2002/09/04	20:34:04	47.71172486	-127.78649339	2630.647	ASNAp	153.310	4.670	
2002/09/04	20:36:04	47.71161069	-127.78647464	2629.038	ASNAp	153.420	2.980	
2002/09/04	20:38:04	47.71155033	-127.78643441	2627.401	ASNAp	105.180	3.050	
2002/09/04	20:40:04	47.71155100	-127.78643426	2624.054	ASNAp	228.770	5.930	
2002/09/04	20:42:05	47.71147063	-127.78643670	2626.590	ASNAp	136.540	3.110	
2002/09/04	20:44:05	47.71120310	-127.78615044	2622.640	ASNAp	172.550	2.590	
2002/09/04	20:46:05	47.71119424	-127.78617524	2619.218	ASNAp	147.300	6.020	
2002/09/04	20:48:05	47.71107808	-127.78622233	2619.103	ASNAp	144.820	5.250	
2002/09/04	20:50:05	47.71095951	-127.78612436	2619.029	ASNAp	152.190	3.580	
2002/09/04	20:52:05	47.71088809	-127.78606020	2616.107	ASNAp	151.220	4.580	
2002/09/04	20:53:35	47.71080955	-127.78599940	2608.357	EVT	151.440	6.870	Looks like the topography might be leveling off
2002/09/04	20:54:05	47.71078037	-127.78597554	2605.327	ASNAp	151.270	7.470	
2002/09/04	20:54:09	47.71077632	-127.78597238	2604.840	EVT	150.910	7.510	blank-text
2002/09/04	20:54:10	47.71077544	-127.78597167	2604.772	EVT	150.820	7.830	blank-text
2002/09/04	20:54:11	47.71077445	-127.78597115	2604.704	EVT	151.420	7.650	blank-text
2002/09/04	20:54:24	47.71076147	-127.78596059	2603.379	EVT	151.870	7.600	blank-text
2002/09/04	20:54:27	47.71075855	-127.78595811	2603.271	EVT	150.940	7.620	blank-text
2002/09/04	20:54:34	47.71075179	-127.78595268	2602.554	EVT	151.490	7.640	octopus-all of the above
2002/09/04	20:55:20	47.71071085	-127.78592004	2598.949	EVT	151.930	5.960	there are a ton of octopi here
2002/09/04	20:56:05	47.71066649	-127.78588179	2595.641	ASNAp	151.100	5.410	
2002/09/04	20:56:10	47.71066154	-127.78587759	2595.790	EVT	151.240	4.880	Octopi
2002/09/04	20:56:21	47.71065037	-127.78586889	2596.115	EVT	151.270	4.170	Octopi
2002/09/04	20:56:31	47.71064765	-127.78586480	2596.493	EVT	151.380	3.630	4 octopi on this rock

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04	20:56:46	47.71064404	-127.78585105	2596.304	EVT	151.220	3.500	Ton of octopi and brittle stars
2002/09/04	20:56:51	47.71064463	-127.78585106	2596.324	EVT	150.850	3.560	More biology
2002/09/04	20:57:01	47.71064504	-127.78585178	2596.439	EVT	151.140	3.350	More...
2002/09/04	20:57:14	47.71064521	-127.78585220	2596.284	EVT	151.030	3.540	Cool octopi and brittle stars
2002/09/04	20:57:21	47.71064516	-127.78585287	2596.263	EVT	151.360	3.450	More
2002/09/04	20:57:35	47.71064516	-127.78585285	2596.351	EVT	151.360	3.450	Octopi
2002/09/04	20:57:48	47.71064505	-127.78585301	2596.257	EVT	151.280	3.410	Octopi
2002/09/04	20:58:05	47.71064528	-127.78585274	2596.196	ASNAP	151.400	3.520	
2002/09/04	20:58:17	47.71064515	-127.78585279	2596.338	EVT	151.120	3.400	Brooding mama octopi
2002/09/04	21:00:03	47.71058164	-127.78585082	2594.985	EVT	151.430	2.780	More octopi
2002/09/04	21:00:05	47.71058083	-127.78585012	2594.931	ASNAP	151.190	2.910	
2002/09/04	21:00:59	47.71049292	-127.78580477	2589.080	EVT	152.650	4.620	No temperature anomaly
2002/09/04	21:01:34	47.71040933	-127.78590256	2590.900	EVT	149.970	2.670	Is that a Marker in view?
2002/09/04	21:02:05	47.71036837	-127.78591712	2591.590	ASNAP	151.190	2.230	
2002/09/04	21:02:29	47.71035969	-127.78593140	2591.015	EVT	151.580	2.890	That Marker says Marker 4
2002/09/04	21:03:30	47.71034235	-127.78589640	2591.116	EVT	123.850	2.300	We don't know who the Marker belongs to
2002/09/04	21:03:43	47.71032634	-127.78585126	2591.427	EVT	124.300	1.480	Apparently it is sea trash
2002/09/04	21:04:05	47.71026906	-127.78582722	2591.962	ASNAP	150.220	1.240	
2002/09/04	21:04:29	47.71023604	-127.78583194	2593.206	EVT	133.750	2.010	That was sarcasm on Paul's part
2002/09/04	21:05:56	47.71007234	-127.78554127	2592.706	EVT	134.100	3.160	They think they're at the top of Baby Bare
2002/09/04	21:06:05	47.71007329	-127.78554279	2592.719	ASNAP	134.270	3.110	
2002/09/04	21:06:10	47.71007345	-127.78554572	2592.665	EVT	146.780	3.070	No temperatuer anomaly seen
2002/09/04	21:06:39	47.71007400	-127.78554685	2593.010	EVT	232.170	3.080	We can see another Marker in the distance
2002/09/04	21:07:15	47.71005884	-127.78559343	2594.884	EVT	236.510	1.200	We are about on level ground as we go towards the
2002/09/04	21:08:05	47.71005589	-127.78560411	2595.621	ASNAP	309.800	0.950	
2002/09/04	21:08:27	47.71006512	-127.78561777	2594.545	EVT	308.980	2.190	Still heading up slope in this direction, which is west
2002/09/04	21:09:34	47.71021243	-127.78568685	2592.415	EVT	330.320	2.230	There are still pockets of sediment even though we
		are on the outcrop						
2002/09/04	21:10:05	47.71024896	-127.78570524	2589.243	ASNAP	332.070	4.830	
2002/09/04	21:11:19	47.71024676	-127.78570376	2589.662	EVT	332.240	4.410	Still no temperature anomaly
2002/09/04	21:12:05	47.71024792	-127.78570367	2589.662	ASNAP	332.130	4.400	
2002/09/04	21:14:05	47.71024806	-127.78570372	2589.845	ASNAP	331.310	4.370	
2002/09/04	21:14:37	47.71024823	-127.78570379	2589.567	EVT	332.360	4.390	Waiting for medea
2002/09/04	21:16:05	47.71024831	-127.78570354	2589.642	ASNAP	331.960	4.400	
2002/09/04	21:18:05	47.71024904	-127.78570309	2589.682	ASNAP	331.970	4.350	
2002/09/04	21:20:05	47.71024909	-127.78570403	2589.757	ASNAP	331.850	4.270	
2002/09/04	21:22:05	47.71024922	-127.78570380	2589.919	ASNAP	331.790	4.200	
2002/09/04	21:24:05	47.71024905	-127.78570392	2589.730	ASNAP	331.720	4.200	
2002/09/04	21:26:05	47.71024927	-127.78570347	2589.811	ASNAP	331.960	4.130	
2002/09/04	21:28:05	47.71024917	-127.78570377	2589.966	ASNAP	331.800	4.160	
2002/09/04	21:30:05	47.71024939	-127.78570334	2589.601	ASNAP	331.770	4.380	

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04	21:32:01	47.71026416	-127.78571446	2589.736	EVT	331.610	3.940	Still trying to get to the top
2002/09/04	21:32:05	47.71026765	-127.78571733	2589.716	ASNAP	331.840	3.850	
2002/09/04	21:32:24	47.71028661	-127.78572314	2589.689	EVT	343.020	3.300	There are some more markers in view
2002/09/04	21:33:34	47.71032386	-127.78572861	2589.770	EVT	344.800	3.150	There are a lot of brittle stars on it
2002/09/04	21:33:46	47.71032418	-127.78572615	2589.703	EVT	358.190	3.240	Just lost pan on pan and tilt
2002/09/04	21:33:54	47.71032381	-127.78572770	2589.689	EVT	10.110	3.220	Marker bullseye
2002/09/04	21:34:05	47.71032400	-127.78572946	2589.730	ASNAP	10.850	3.230	
2002/09/04	21:34:05	47.71032400	-127.78572946	2589.730	EVT	10.850	3.230	No temperature anomaly here
2002/09/04	21:34:30	47.71034404	-127.78572756	2590.034	EVT	10.930	2.630	The other marker appears to be a black spot-zero?
2002/09/04	21:34:53	47.71036855	-127.78572491	2590.088	EVT	10.860	2.440	We have pan back
2002/09/04	21:35:48	47.71049741	-127.78567674	2590.223	EVT	10.590	2.290	Will thinks we are at the summit
2002/09/04	21:36:04	47.71048917	-127.78567632	2590.345	EVT	68.500	2.130	Depth is 2590
2002/09/04	21:36:05	47.71048888	-127.78567680	2590.365	ASNAP	74.330	2.130	
2002/09/04	21:37:53	47.71048977	-127.78567989	2590.217	EVT	216.300	2.620	Navigation Target 17 is here
2002/09/04	21:38:05	47.71048972	-127.78568011	2590.169	ASNAP	215.970	2.660	
2002/09/04	21:40:05	47.71048980	-127.78568017	2590.365	ASNAP	216.370	2.670	
2002/09/04	21:40:12	47.71048968	-127.78567999	2590.203	EVT	216.230	2.630	We are also deploying Marker 17 here
2002/09/04	21:42:05	47.71048969	-127.78567997	2590.332	ASNAP	216.100	2.620	
2002/09/04	21:42:21	47.71048974	-127.78568021	2590.291	EVT	216.340	2.640	Sorry, that's wrong. We are deploying Marker LF
	here							
2002/09/04	21:43:46	47.71048980	-127.78567986	2590.230	EVT	216.440	2.600	We now want to find diffuse flow here
2002/09/04	21:44:05	47.71048982	-127.78567997	2590.217	ASNAP	216.250	2.640	
2002/09/04	21:46:05	47.71041751	-127.78573584	2590.392	ASNAP	217.970	1.820	
2002/09/04	21:46:15	47.71038950	-127.78575791	2589.878	EVT	215.960	2.260	Just saw a pair of Alvin weights
2002/09/04	21:46:57	47.71031965	-127.78581126	2590.325	EVT	275.790	2.130	We can see another Marker- 44 this time
2002/09/04	21:48:05	47.71032251	-127.78581128	2589.993	ASNAP	9.270	2.750	
2002/09/04	21:50:05	47.71032247	-127.78581062	2590.108	ASNAP	9.340	2.650	
2002/09/04	21:52:05	47.71032249	-127.78581084	2589.892	ASNAP	9.180	2.790	
2002/09/04	21:52:58	47.71032245	-127.78581080	2590.156	EVT	9.280	2.620	We are fiddling with screen views
2002/09/04	21:54:05	47.71032241	-127.78581082	2590.014	ASNAP	9.200	2.810	
2002/09/04	21:55:35	47.71032473	-127.78583232	2590.007	EVT	9.400	2.750	We are running a tight survey grid to look for diffuse
	flow on bottom							
2002/09/04	21:56:05	47.71033054	-127.78588349	2589.899	ASNAP	9.360	2.830	
2002/09/04	21:58:05	47.71033700	-127.78594249	2590.061	ASNAP	9.250	2.770	
2002/09/04	21:59:51	47.71033080	-127.78588670	2590.068	EVT	9.230	2.760	Brittle stars-lots of them
2002/09/04	22:00:03	47.71032868	-127.78586630	2589.993	EVT	9.360	2.790	POctopi
2002/09/04	22:00:05	47.71032834	-127.78586339	2590.088	ASNAP	9.250	2.800	
2002/09/04	22:01:58	47.71031047	-127.78570387	2590.088	EVT	9.420	2.710	We're going to drop down and take a temperature
	measurement							
2002/09/04	22:02:05	47.71031071	-127.78570647	2590.034	ASNAP	9.390	2.670	
2002/09/04	22:04:05	47.71031057	-127.78570524	2590.027	ASNAP	9.260	2.760	

Event log: LEXEN 2002

Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/04	22:06:05	47.71031053	-127.78570539	2591.251	ASNAP 9.300	1.570	
2002/09/04	22:06:49	47.70002142	-127.80000199	2592.077	EVT 9.070	0.760	We are inserting the probe into the sediment
2002/09/04	22:08:05	47.70002112	-127.80000101	2592.077	EVT 8.750	0.760	So far no temperature anomaly
2002/09/04	22:08:05	47.70002108	-127.80000107	2591.982	ASNAP 8.760	0.760	
2002/09/04	22:09:05	47.70002809	-127.80001517	2592.171	EVT 9.390	30.000	There are lots of brittle stars here
2002/09/04	22:09:21	47.70003630	-127.80002837	2592.374	EVT 9.210	30.000	We are reinserting
2002/09/04	22:09:32	47.70003208	-127.80002351	2592.286	EVT 8.900	30.000	2.6 temperature anomaly
2002/09/04	22:09:39	47.70002384	-127.80001433	2592.476	EVT 8.860	30.000	2.8
2002/09/04	22:09:55	47.70001875	-127.80000719	2592.428	EVT 8.800	30.000	Up to 3.0
2002/09/04	22:10:14	47.70001086	-127.80000034	2592.205	EVT 8.770	30.000	We're calling it at 3.0
2002/09/04	22:14:05	47.71025168	-127.78569447	2591.279	ASNAP 9.300	1.530	
2002/09/04	22:16:05	47.71023271	-127.78561808	2591.279	ASNAP 9.310	2.110	
2002/09/04	22:16:13	47.71023137	-127.78560680	2591.333	EVT 9.870	2.040	resuming the survey
2002/09/04	22:18:05	47.71022115	-127.78549430	2593.524	ASNAP 4.340	1.450	
2002/09/04	22:20:05	47.71026322	-127.78549055	2592.976	ASNAP 359.390	1.730	
2002/09/04	22:22:05	47.71026179	-127.78569136	2591.170	ASNAP 359.720	1.560	
2002/09/04	22:24:06	47.71026007	-127.78589102	2590.541	ASNAP 359.320	2.160	
2002/09/04	22:26:06	47.71029685	-127.78598716	2590.562	ASNAP 359.420	3.130	
2002/09/04	22:28:06	47.71029694	-127.78579265	2590.677	ASNAP 358.980	1.350	
2002/09/04	22:29:04	47.71029754	-127.78569627	2589.459	EVT 359.490	2.850	crab
2002/09/04	22:30:06	47.71029884	-127.78559349	2591.204	ASNAP 359.920	1.880	
2002/09/04	22:32:06	47.71030072	-127.78539838	2593.781	ASNAP 357.770	2.290	
2002/09/04	22:34:06	47.71032617	-127.78547032	2593.057	ASNAP 359.580	1.530	
2002/09/04	22:36:06	47.71032512	-127.78567040	2591.069	ASNAP 359.400	1.330	
2002/09/04	22:38:46	47.71035343	-127.78573448	2591.853	EVT 359.060	30.000	stopping to take ICL low temp
2002/09/04	22:41:18	47.71039296	-127.78578611	2591.881	EVT 359.130	30.000	temp probe in the sediment
2002/09/04	22:41:42	47.71039999	-127.78579300	2591.840	EVT 359.160	30.000	temperature: 2.6 with a 2.1 background
2002/09/04	22:42:06	47.71040484	-127.78579749	2591.603	ASNAP 358.960	0.800	
2002/09/04	22:48:57	47.71040447	-127.78566011	2591.867	EVT 359.270	30.000	2.4 maximum temperature measured
2002/09/04	22:52:06	47.71043310	-127.78551074	2591.312	ASNAP 348.840	0.970	
2002/09/04	22:52:12	47.71043267	-127.78551012	2590.731	EVT 349.500	1.340	stirring up some sediment
2002/09/04	22:53:12	47.71042061	-127.78555081	2590.670	EVT 239.250	1.380	some rocks
2002/09/04	22:54:00	47.71039109	-127.78558906	2590.426	EVT 239.900	1.100	a marker is in sight
2002/09/04	22:54:06	47.71038534	-127.78559504	2590.535	ASNAP 239.710	1.100	
2002/09/04	22:54:29	47.71036716	-127.78562428	2590.406	EVT 239.890	0.980	marker 44
2002/09/04	22:54:55	47.71034688	-127.78565532	2590.582	EVT 239.850	1.560	another shot of marker 44
2002/09/04	22:56:06	47.71033135	-127.78568063	2590.602	ASNAP 272.040	1.730	
2002/09/04	22:56:15	47.71033119	-127.78568012	2590.447	EVT 270.880	1.900	we are doing an ad hoc survey for vents at the
		summit of Baby Bare					
2002/09/04	22:58:06	47.71032165	-127.78574383	2590.467	ASNAP 270.000	2.030	
2002/09/04	23:00:06	47.71032096	-127.78594137	2594.667	ASNAP 268.690	1.890	

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04	23:00:15	47.71032172	-127.78595325	2594.945	EVT	267.000	1.940	no temperature anomalies being recorded by the CTD
2002/09/04	23:02:06	47.71032379	-127.78601093	2595.486	ASNAP	336.870	3.300	
2002/09/04	23:03:00	47.71032356	-127.78601189	2595.513	EVT	336.470	3.340	we see some white stuff below and are planning to
	investigate							
2002/09/04	23:04:06	47.71032121	-127.78601352	2595.310	ASNAP	335.870	3.490	
2002/09/04	23:06:06	47.71032322	-127.78598782	2595.418	ASNAP	87.500	4.120	
2002/09/04	23:08:02	47.71032357	-127.78597100	2594.640	EVT	268.970	2.610	discolored rocks, clam shells, markers are among the
	items we are looking for\							
2002/09/04	23:08:06	47.71032347	-127.78597082	2594.694	ASNAP	268.890	2.590	
2002/09/04	23:10:06	47.71032341	-127.78597119	2596.148	ASNAP	269.560	1.120	
2002/09/04	23:11:33	47.71032478	-127.78599453	2596.128	EVT	298.590	1.860	1.797 TEMP anomaly
2002/09/04	23:11:56	47.71032448	-127.78601109	2596.338	EVT	322.270	2.460	back to background TEMP of 1.774
2002/09/04	23:12:06	47.71032018	-127.78601746	2596.155	ASNAP	329.410	2.660	
2002/09/04	23:13:04	47.71033867	-127.78607484	2597.292	EVT	3.160	2.990	possible pH anomaly
2002/09/04	23:13:27	47.71034280	-127.78608034	2598.475	EVT	14.900	2.000	here we are at the white stuff
2002/09/04	23:14:06	47.71035076	-127.78607437	2598.516	ASNAP	37.450	2.150	
2002/09/04	23:14:31	47.71035192	-127.78607155	2599.584	EVT	38.730	1.140	landed on the white stuff and stirred up some
	sediment							
2002/09/04	23:15:30	47.71034675	-127.78607899	2599.611	EVT	38.610	1.160	we are planning to stick the probe right in the white
	stuff							
2002/09/04	23:16:06	47.71034606	-127.78608153	2599.591	ASNAP	38.620	1.170	
2002/09/04	23:16:44	47.71034666	-127.78608147	2599.611	EVT	38.530	1.180	paul says to mark this is as the 'white deposit area'
2002/09/04	23:17:02	47.71034688	-127.78608050	2599.510	EVT	38.490	1.210	probing the sediment with the TEMP probe
2002/09/04	23:17:48	47.71034498	-127.78608025	2599.557	EVT	38.390	1.200	removing the TEMP probe
2002/09/04	23:18:04	47.71034507	-127.78608005	2599.537	EVT	38.540	1.220	2.2 was the highest TEMP recorded
2002/09/04	23:18:06	47.71034509	-127.78608008	2599.490	ASNAP	38.560	1.230	
2002/09/04	23:18:18	47.71034538	-127.78607931	2599.456	EVT	38.560	1.190	make that 2.4
2002/09/04	23:18:30	47.71034566	-127.78607880	2599.409	EVT	38.560	1.180	reinserted the probe: TEMP 2.6
2002/09/04	23:18:57	47.71034639	-127.78607852	2599.490	EVT	38.940	1.080	removed the probe and reinserted for the 3rd time
2002/09/04	23:19:07	47.71034671	-127.78607898	2599.449	EVT	38.940	1.080	2.8 TEMP here
2002/09/04	23:19:17	47.71034697	-127.78607915	2599.463	EVT	38.910	1.080	3.0 TEMP
2002/09/04	23:19:35	47.71034746	-127.78607964	2599.429	EVT	38.960	1.080	3.2 TEMP
2002/09/04	23:20:05	47.71034791	-127.78607926	2599.496	EVT	38.920	1.090	3.3 TEMP
2002/09/04	23:20:06	47.71034791	-127.78607928	2599.490	ASNAP	38.900	1.090	
2002/09/04	23:21:11	47.71034828	-127.78608094	2599.544	EVT	38.530	1.010	reinserting the probe yet again
2002/09/04	23:21:59	47.71034511	-127.78608099	2599.557	EVT	38.460	0.990	'white deposit area' is now target 18
2002/09/04	23:22:06	47.71034428	-127.78608066	2599.578	ASNAP	38.480	1.000	
2002/09/04	23:22:17	47.71034472	-127.78608101	2599.517	EVT	38.480	1.000	highest TEMP at target 18 was 3.3
2002/09/04	23:23:11	47.71034301	-127.78608083	2598.834	EVT	39.090	1.750	Dave says the white stuff may be a scar of some kind
2002/09/04	23:24:06	47.71032923	-127.78606958	2598.482	ASNAP	73.260	2.260	

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/04	23:26:05	47.71025307	-127.78596519	2598.225	EVT	104.080	1.860	the clams seemed to have died so we are looking for clam shells or fragments
2002/09/04	23:26:06	47.71025263	-127.78596455	2598.225	ASNAP	104.090	1.870	
2002/09/04	23:27:45	47.71026828	-127.78597659	2598.245	EVT	21.960	1.660	brittle stars
2002/09/04	23:28:06	47.71026505	-127.78598214	2597.887	ASNAP	18.050	2.170	
2002/09/04	23:28:13	47.71026319	-127.78598172	2597.738	EVT	18.070	2.220	backtracked and stirred up sediment
2002/09/04	23:29:13	47.71026976	-127.78598061	2598.137	EVT	17.920	1.690	we see some more discolored sediment on the bottom
2002/09/04	23:30:06	47.71027178	-127.78598296	2598.895	ASNAP	17.580	0.830	
2002/09/04	23:31:06	47.71027162	-127.78598441	2598.705	EVT	16.870	1.130	taking a temperature measurement at another discolored site 2m away from target 18
2002/09/04	23:31:34	47.71026534	-127.78597701	2598.881	EVT	16.920	1.150	TEMP 2.2
2002/09/04	23:31:58	47.71026429	-127.78597655	2598.712	EVT	16.950	1.150	TEMP 2.4
2002/09/04	23:32:06	47.71026424	-127.78597591	2598.732	ASNAP	16.900	1.120	
2002/09/04	23:32:20	47.71026442	-127.78597459	2598.759	EVT	16.950	1.130	reinserting the temperature probe
2002/09/04	23:32:41	47.71026480	-127.78597377	2598.807	EVT	17.110	0.970	TEMP 2.6
2002/09/04	23:32:52	47.71026504	-127.78597315	2598.786	EVT	17.100	0.960	TEMP 2.8
2002/09/04	23:34:06	47.71026705	-127.78596902	2598.881	ASNAP	17.040	0.960	
2002/09/04	23:34:34	47.71026700	-127.78596830	2598.847	EVT	16.930	1.150	TEMP 3.2 highest here
2002/09/04	23:36:06	47.71027216	-127.78598724	2597.927	ASNAP	13.220	1.970	
2002/09/04	23:36:10	47.71027341	-127.78599021	2597.941	EVT	13.330	2.030	Dave wants to dig around to create new vents but Paul doesn't
2002/09/04	23:36:42	47.71029237	-127.78600985	2598.049	EVT	12.920	1.660	slight temperature anomaly 1.797 but went back to 1.77
2002/09/04	23:37:38	47.71032391	-127.78598535	2596.656	EVT	47.340	2.250	some white fragments..
2002/09/04	23:38:06	47.71033574	-127.78596464	2595.925	ASNAP	47.710	2.360	
2002/09/04	23:38:48	47.71036391	-127.78591922	2595.066	EVT	78.850	1.610	brittle stars on rocky outcrops
2002/09/04	23:39:52	47.71036679	-127.78590438	2594.316	EVT	77.000	2.000	steady 1.8 TEMP anomaly
2002/09/04	23:40:06	47.71036763	-127.78589100	2593.551	ASNAP	77.370	2.430	
2002/09/04	23:42:06	47.71036989	-127.78575476	2591.380	ASNAP	99.760	2.120	
2002/09/04	23:42:08	47.71036837	-127.78575354	2591.333	EVT	105.200	2.150	we see a marker up ahead
2002/09/04	23:42:47	47.71036752	-127.78573884	2591.468	EVT	121.550	1.770	this is marker 4
2002/09/04	23:43:03	47.71036857	-127.78573894	2591.380	EVT	121.320	1.800	now planning to head east of the summit
2002/09/04	23:44:06	47.71037192	-127.78573959	2591.333	ASNAP	121.100	1.870	
2002/09/04	23:44:28	47.71037427	-127.78574137	2591.596	EVT	121.120	1.720	more brittle stars on rocky outcrops
2002/09/04	23:45:07	47.71037957	-127.78574162	2591.468	EVT	121.100	1.890	we are going to go due east of target 17
2002/09/04	23:46:02	47.71038091	-127.78574094	2591.448	EVT	100.920	1.840	(target 17=summit of Baby Bare)
2002/09/04	23:46:06	47.71038083	-127.78574103	2591.373	ASNAP	93.360	1.870	
2002/09/04	23:48:06	47.71037875	-127.78572808	2590.494	ASNAP	91.380	2.550	
2002/09/04	23:50:06	47.71038227	-127.78566994	2589.770	ASNAP	81.130	1.930	
2002/09/04	23:51:04	47.71037463	-127.78562794	2588.938	EVT	94.020	2.490	another marker in sight
2002/09/04	23:51:17	47.71037277	-127.78561687	2588.688	EVT	94.150	2.980	octopus

Event log: LEXEN 2002

Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/04	23:52:06	47.71037384	-127.78561620	2589.872	ASNAP	93.690 1.720	
2002/09/04	23:52:39	47.71037334	-127.78561622	2589.669	EVT	93.880 2.000	stirring up bottom sediment
2002/09/04	23:53:20	47.71037336	-127.78561560	2589.818	EVT	61.020 1.980	either an elevator weight or an alvin weight
2002/09/04	23:53:56	47.71036861	-127.78561840	2589.527	EVT	145.380 1.970	this is marker bullseye which we have seen before
2002/09/04	23:54:06	47.71036857	-127.78561931	2589.709	ASNAP	145.820 1.950	
2002/09/04	23:56:02	47.71026482	-127.78566443	2591.089	EVT	170.090 1.730	we are headed for an old site seen 2 years ago venting
17 degree fluid							
2002/09/04	23:56:06	47.71026142	-127.78567107	2591.414	ASNAP	175.510 1.430	
2002/09/04	23:58:06	47.71017566	-127.78566103	2595.993	ASNAP	158.030 1.090	
2002/09/05	00:00:05	47.71014349	-127.78564668	2595.526	EVT	157.950 2.410	stirring up a cloud of sediment
2002/09/05	00:00:06	47.71014348	-127.78564676	2595.628	ASNAP	158.120 2.390	
2002/09/05	00:02:02	47.71006051	-127.78558072	2595.919	EVT	149.300 4.020	we see a marker up ahead
2002/09/05	00:02:06	47.71005413	-127.78557350	2595.858	ASNAP	151.110 4.050	
2002/09/05	00:02:09	47.71005282	-127.78557154	2595.858	EVT	150.910 4.140	that is marker 17
2002/09/05	00:02:52	47.71005245	-127.78556954	2595.716	EVT	150.880 4.280	this is the place that had 17 degrees C venting fluid
2002/09/05	00:04:06	47.71005249	-127.78556995	2595.810	ASNAP	150.960 4.240	
2002/09/05	00:06:07	47.71005243	-127.78556895	2595.891	ASNAP	149.850 4.220	
2002/09/05	00:08:07	47.71005194	-127.78556976	2595.905	ASNAP	149.610 4.250	
2002/09/05	00:08:27	47.71005184	-127.78556995	2595.810	EVT	149.720 4.320	we are going to dig around near marker 17
2002/09/05	00:09:13	47.71001957	-127.78558340	2595.905	EVT	84.710 6.640	looks like some white stuff in the sediment near
marker 17							
2002/09/05	00:09:28	47.71003229	-127.78556357	2597.292	EVT	83.640 4.430	getting a close up on marker 17
2002/09/05	00:09:37	47.71002951	-127.78555429	2598.475	EVT	84.790 3.160	another close-up
2002/09/05	00:10:07	47.71002941	-127.78554354	2599.693	ASNAP	84.740 1.780	
2002/09/05	00:10:27	47.71002897	-127.78554435	2599.469	EVT	84.980 1.840	marker 17 is covered in brittle stars
2002/09/05	00:11:27	47.71002901	-127.78554485	2599.578	EVT	84.940 1.820	some differently colored spots on the seafloor around
marker 17							
2002/09/05	00:11:46	47.71002901	-127.78554509	2599.551	EVT	84.880 1.830	evidence of some bottom current
2002/09/05	00:12:07	47.71002903	-127.78554522	2599.591	ASNAP	84.920 1.820	
2002/09/05	00:13:12	47.71002896	-127.78554560	2599.679	EVT	84.890 1.820	we are looking for shimmery flow around marker 17
2002/09/05	00:13:16	47.71002895	-127.78554556	2599.456	EVT	84.870 1.830	a clamshell!
2002/09/05	00:13:45	47.71002924	-127.78554548	2599.544	EVT	84.890 1.830	clam shells and ophiuroids
2002/09/05	00:14:07	47.71002920	-127.78554549	2599.490	ASNAP	84.880 1.840	
2002/09/05	00:16:07	47.71002776	-127.78554743	2599.571	ASNAP	84.850 1.850	
2002/09/05	00:16:40	47.71002758	-127.78554812	2599.544	EVT	84.930 1.850	not much evidence of shimmery flow but something
is moving around the bottom water							
2002/09/05	00:18:01	47.71002767	-127.78554920	2599.618	EVT	84.870 1.840	getting ready to use the temperature probe
2002/09/05	00:18:07	47.71002770	-127.78554922	2599.530	ASNAP	84.880 1.830	
2002/09/05	00:18:42	47.71002810	-127.78554883	2599.578	EVT	84.970 1.880	inserting the temperature probe
2002/09/05	00:18:53	47.71002850	-127.78554836	2599.578	EVT	84.970 1.900	2.6 TEMP already
2002/09/05	00:19:52	47.71003013	-127.78554647	2599.496	EVT	84.870 1.890	8.1 TEMP

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/05	00:20:07	47.71003065	-127.78554578	2599.510	ASNAP	84.860	1.890
2002/09/05	00:20:09	47.71003068	-127.78554572	2599.524	EVT	84.810	1.880
2002/09/05	00:21:06	47.71003269	-127.78554306	2599.625	EVT	84.790	1.910
2002/09/05	00:21:35	47.71003417	-127.78554092	2599.496	EVT	84.740	1.900
2002/09/05	00:22:07	47.71003582	-127.78553865	2599.463	ASNAP	84.680	1.910
2002/09/05	00:22:36	47.71003756	-127.78553623	2599.530	EVT	84.630	1.910
2002/09/05	00:22:58	47.71003814	-127.78553485	2599.483	EVT	84.430	1.970
2002/09/05	00:23:20	47.71003888	-127.78553404	2599.442	EVT	84.410	1.960
2002/09/05	00:23:50	47.71003845	-127.78553495	2599.483	EVT	84.390	1.970
2002/09/05	00:24:07	47.71003889	-127.78553452	2599.598	ASNAP	84.400	1.980
2002/09/05	00:24:38	47.71003990	-127.78553350	2599.551	EVT	84.310	1.970
2002/09/05	00:26:07	47.71004087	-127.78553229	2599.496	ASNAP	84.620	1.890
2002/09/05	00:26:23	47.71004059	-127.78553255	2599.490	EVT	84.630	1.900
2002/09/05	00:26:53	47.71003966	-127.78553356	2599.639	EVT	84.650	1.890
2002/09/05	00:27:17	47.71004007	-127.78553324	2599.463	EVT	84.590	1.890
2002/09/05	00:28:07	47.71004003	-127.78553361	2599.436	ASNAP	84.630	1.880
2002/09/05	00:28:33	47.71003964	-127.78553462	2599.578	EVT	84.920	2.050
2002/09/05	00:29:30	47.71003699	-127.78553782	2599.618	EVT	84.730	1.930
2002/09/05	00:30:07	47.71003513	-127.78554089	2599.686	ASNAP	84.730	1.930
2002/09/05	00:30:07	47.71003509	-127.78554096	2599.469	EVT	84.730	1.930
2002/09/05	00:31:35	47.71002948	-127.78554951	2599.517	EVT	84.680	1.930
2002/09/05	00:32:07	47.71002760	-127.78555252	2599.530	ASNAP	84.680	1.930
2002/09/05	00:34:07	47.71002460	-127.78555703	2599.720	ASNAP	84.530	1.910
2002/09/05	00:34:17	47.71002401	-127.78555764	2599.537	EVT	84.440	1.890
2002/09/05	00:34:40	47.71002301	-127.78555925	2599.584	EVT	84.590	1.900
2002/09/05	00:36:07	47.71002377	-127.78555861	2600.322	ASNAP	85.440	1.140
2002/09/05	00:36:58	47.71002406	-127.78556052	2599.997	EVT	85.350	1.500
2002/09/05	00:37:42	47.71002365	-127.78556122	2600.112	EVT	85.400	1.450
2002/09/05	00:38:07	47.71002311	-127.78556192	2600.139	ASNAP	85.380	1.440
2002/09/05	00:39:41	47.71002101	-127.78557058	2600.044	EVT	85.340	1.420
2002/09/05	00:40:07	47.71002043	-127.78557216	2600.004	ASNAP	85.340	1.480
2002/09/05	00:40:19	47.71002032	-127.78557218	2600.017	EVT	85.320	1.450
2002/09/05	00:41:17	47.71001891	-127.78557286	2600.139	EVT	85.140	1.400
2002/09/05	00:41:30	47.71001842	-127.78557314	2600.065	EVT	85.260	1.350
2002/09/05	00:41:55	47.71001834	-127.78557315	2600.038	EVT	85.370	1.450
2002/09/05	00:42:07	47.71001858	-127.78557335	2600.024	ASNAP	85.630	1.400
2002/09/05	00:43:04	47.71001844	-127.78557512	2600.166	EVT	85.450	1.340
2002/09/05	00:43:20	47.71001823	-127.78557562	2600.173	EVT	85.500	1.360
2002/09/05	00:43:45	47.71001767	-127.78557641	2600.288	EVT	85.560	1.350
2002/09/05	00:44:07	47.71001706	-127.78557709	2600.240	ASNAP	85.530	1.360

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/05	00:44:19	47.71001683	-127.78557748	2600.119	EVT	85.580	1.370	going to try to put the cylinder at the end of Butterfield intake over the hole
2002/09/05	00:46:07	47.71001775	-127.78557574	2600.105	ASNAP	85.430	1.360	
2002/09/05	00:46:53	47.71001794	-127.78557556	2600.024	EVT	85.310	1.420	details about the push core: brown on top, grayish sediment below, some white clam shells inside
2002/09/05	00:47:25	47.71001700	-127.78557493	2600.139	EVT	85.340	1.420	we are now positioning the Butterfield intake over the push core hole
2002/09/05	00:48:07	47.71001711	-127.78557529	2600.139	ASNAP	85.520	1.370	
2002/09/05	00:49:20	47.71001623	-127.78557738	2600.065	EVT	85.420	1.370	getting a better grip on the Butterfield intake
2002/09/05	00:50:07	47.71001624	-127.78557727	2600.119	ASNAP	85.430	1.390	
2002/09/05	00:50:47	47.71001708	-127.78557685	2600.200	EVT	85.450	1.350	fish
2002/09/05	00:52:07	47.71001823	-127.78557733	2600.173	ASNAP	85.460	1.360	
2002/09/05	00:52:24	47.71001857	-127.78557684	2600.126	EVT	85.280	1.400	got ahold of the Butterfield intake again
2002/09/05	00:52:49	47.71001845	-127.78557827	2600.153	EVT	85.360	1.400	positioned the cylinder on the intake over the hole
2002/09/05	00:52:58	47.71001824	-127.78557915	2600.159	EVT	85.300	1.420	zoomed in on the hole
2002/09/05	00:54:07	47.71001828	-127.78558392	2600.085	ASNAP	85.340	1.400	
2002/09/05	00:56:07	47.71001698	-127.78559255	2600.092	ASNAP	85.400	1.390	
2002/09/05	00:58:07	47.71001588	-127.78559848	2600.139	ASNAP	85.390	1.420	
2002/09/05	00:59:10	47.71001505	-127.78560275	2600.065	EVT	85.370	1.520	hitting wakeup P1
2002/09/05	00:59:21	47.71001479	-127.78560391	2600.011	EVT	85.410	1.410	hitting startup
2002/09/05	01:00:07	47.71001406	-127.78560820	2600.153	ASNAP	85.420	1.400	
2002/09/05	01:02:07	47.71001257	-127.78561855	2600.193	ASNAP	85.390	1.530	
2002/09/05	01:04:07	47.71001215	-127.78562807	2600.153	ASNAP	85.440	1.520	
2002/09/05	01:06:07	47.71000902	-127.78563961	2600.173	ASNAP	85.360	1.410	
2002/09/05	01:06:21	47.71000879	-127.78564035	2600.180	EVT	85.370	1.410	fish in amongst the machinery
2002/09/05	01:07:17	47.71000790	-127.78564370	2600.173	EVT	85.350	1.420	polynoid
2002/09/05	01:08:07	47.71000598	-127.78564797	2600.180	ASNAP	85.410	1.530	
2002/09/05	01:09:53	47.71000282	-127.78565566	2600.207	EVT	85.340	1.410	water shimmer
2002/09/05	01:10:05	47.71000278	-127.78565660	2600.240	EVT	85.390	1.410	lots of shimmering water coming out of the exit
2002/09/05	01:10:07	47.71000278	-127.78565687	2600.173	ASNAP	85.390	1.410	
2002/09/05	01:10:39	47.71000194	-127.78565899	2600.085	EVT	85.410	1.490	not shimmering water -- just distilled water I'm afraid
2002/09/05	01:12:07	47.71000071	-127.78566493	2600.159	ASNAP	85.410	1.400	
2002/09/05	01:14:07	47.70999795	-127.78567358	2600.173	ASNAP	85.420	1.420	
2002/09/05	01:14:07	47.70999795	-127.78567358	2600.173	EVT	85.420	1.420	end of sample -- 636 mils
2002/09/05	01:14:28	47.70999724	-127.78567442	2600.240	EVT	85.460	1.420	Max temp 2.8, average temp 2.6
2002/09/05	01:14:50	47.70999639	-127.78567498	2600.153	EVT	85.450	1.410	T2 was 1.6 at maximum
2002/09/05	01:16:07	47.70999500	-127.78567740	2600.139	ASNAP	85.460	1.410	
2002/09/05	01:17:25	47.70999310	-127.78568224	2600.207	EVT	85.540	1.400	Starting Sample B8 Start Time 1:16:55 These two samples were done without the flush pump on
2002/09/05	01:18:07	47.70999140	-127.78568416	2600.092	ASNAP	85.420	1.420	
2002/09/05	01:20:07	47.70999041	-127.78568577	2600.112	ASNAP	85.410	1.420	

Event log: LEXEN 2002

Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/05	01:22:07	47.70998757	-127.78568735	2600.335	ASNAP	85.370	1.410
2002/09/05	01:23:47	47.70998547	-127.78568852	2600.139	EVT	85.370	1.410
VOI 737ml							
2002/09/05	01:24:01	47.70998492	-127.78568814	2600.268	EVT	85.380	1.420
2002/09/05	01:24:07	47.70998485	-127.78568823	2600.274	ASNAP	85.410	1.410
2002/09/05	01:26:07	47.70998383	-127.78569155	2600.200	ASNAP	85.420	1.410
2002/09/05	01:28:07	47.70998173	-127.78569219	2600.220	ASNAP	85.440	1.410
2002/09/05	01:28:32	47.70998115	-127.78569243	2600.227	EVT	85.410	1.420
2002/09/05	01:28:54	47.70998057	-127.78569240	2600.254	EVT	85.380	1.420
705							
2002/09/05	01:30:07	47.70997917	-127.78569450	2600.240	ASNAP	85.360	1.410
2002/09/05	01:30:49	47.70997804	-127.78569563	2600.207	EVT	85.380	1.410
2002/09/05	01:32:07	47.70997661	-127.78569700	2600.213	ASNAP	85.410	1.410
2002/09/05	01:34:07	47.70997516	-127.78570104	2600.288	ASNAP	85.450	1.400
2002/09/05	01:36:07	47.70997645	-127.78570374	2600.295	ASNAP	85.400	1.420
2002/09/05	01:38:07	47.70997439	-127.78570359	2600.288	ASNAP	85.420	1.410
2002/09/05	01:40:07	47.70997259	-127.78570524	2600.295	ASNAP	85.410	1.400
2002/09/05	01:40:44	47.70997356	-127.78570629	2600.369	EVT	85.420	1.390
2.7, mean temp 2.6 volume pump=1001							
2002/09/05	01:42:07	47.70997469	-127.78570821	2600.295	ASNAP	85.450	1.400
2002/09/05	01:44:07	47.70997495	-127.78571306	2600.403	ASNAP	85.390	1.410
2002/09/05	01:44:20	47.70997500	-127.78571340	2600.369	EVT	85.420	1.400
2002/09/05	01:46:08	47.70997522	-127.78571345	2600.274	ASNAP	85.440	1.400
2002/09/05	01:47:01	47.70997398	-127.78571636	2600.247	EVT	85.370	1.420
2002/09/05	01:47:45	47.70997283	-127.78571708	2600.362	EVT	85.360	1.420
2002/09/05	01:47:54	47.70997278	-127.78571700	2600.369	EVT	85.320	1.410
2002/09/05	01:48:08	47.70997249	-127.78571714	2600.301	ASNAP	85.360	1.410
2002/09/05	01:48:36	47.70997201	-127.78571771	2600.322	EVT	85.370	1.410
again							
2002/09/05	01:48:46	47.70997191	-127.78571780	2600.315	EVT	85.350	1.400
2002/09/05	01:49:20	47.70997096	-127.78571904	2600.355	EVT	85.360	1.400
2002/09/05	01:49:48	47.70997085	-127.78571926	2600.376	EVT	85.360	1.400
2002/09/05	01:50:08	47.70997069	-127.78571934	2600.355	ASNAP	85.370	1.410
2002/09/05	01:50:10	47.70997064	-127.78571936	2600.403	EVT	85.370	1.410
2002/09/05	01:52:08	47.70997123	-127.78571889	2600.355	ASNAP	85.330	1.400
2002/09/05	01:54:08	47.70997209	-127.78571913	2600.315	ASNAP	85.370	1.410
2002/09/05	01:54:48	47.70997202	-127.78571998	2600.274	EVT	85.340	1.410
2002/09/05	01:55:45	47.70997154	-127.78572204	2600.227	EVT	85.370	1.410
temperature dropped slowly throughout							
2002/09/05	01:56:08	47.70997131	-127.78572283	2600.416	ASNAP	85.380	1.410
2002/09/05	01:56:25	47.70997108	-127.78572340	2600.281	EVT	85.310	1.410

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/05	01:56:45	47.70997077	-127.78572383	2600.484	EVT	85.330	1.410	TEMP up to 4.4
2002/09/05	01:57:24	47.70996931	-127.78572591	2600.464	EVT	85.480	1.390	temperature increasing to 5 degrees C
2002/09/05	01:57:35	47.70996854	-127.78572698	2600.410	EVT	85.490	1.390	pH=7.88
2002/09/05	01:58:08	47.70996701	-127.78572830	2600.450	ASNAP	85.450	1.390	
2002/09/05	02:00:08	47.70996170	-127.78573501	2600.328	ASNAP	85.520	1.390	
2002/09/05	02:01:02	47.70995851	-127.78573818	2600.389	EVT	85.490	1.400	TEMP 4.2-4.1
2002/09/05	02:01:50	47.70995761	-127.78573840	2600.504	EVT	85.720	1.360	pushing the intake in further
2002/09/05	02:02:08	47.70995742	-127.78573855	2600.457	ASNAP	85.500	1.390	
2002/09/05	02:02:13	47.70995730	-127.78573859	2600.410	EVT	85.530	1.390	it won't go any further: are we hitting rock?
2002/09/05	02:02:23	47.70995705	-127.78573899	2600.410	EVT	85.510	1.390	no TEMP change\
2002/09/05	02:04:08	47.70995660	-127.78574380	2600.491	ASNAP	85.530	1.450	
2002/09/05	02:05:15	47.70995546	-127.78574599	2600.504	EVT	85.510	1.370	start bag #19
2002/09/05	02:05:27	47.70995501	-127.78574694	2600.497	EVT	85.510	1.440	flush pump is on
2002/09/05	02:06:08	47.70995405	-127.78575043	2600.362	ASNAP	85.510	1.570	
2002/09/05	02:06:20	47.70995388	-127.78575155	2600.504	EVT	85.480	1.380	flush pump off but still sampling
2002/09/05	02:08:00	47.70994850	-127.78576260	2600.518	EVT	85.490	1.390	?ophidiiform near arm
2002/09/05	02:08:08	47.70994833	-127.78576301	2600.511	ASNAP	85.490	1.390	
2002/09/05	02:09:40	47.70994683	-127.78576941	2600.572	EVT	85.520	1.380	stop bag #19
2002/09/05	02:10:08	47.70994648	-127.78577057	2600.531	ASNAP	85.550	1.450	
2002/09/05	02:10:32	47.70994579	-127.78577214	2600.437	EVT	85.580	1.470	bag #19: 3.9 max T; 3.7 ave T; vol=622mls
2002/09/05	02:12:08	47.70994388	-127.78577825	2600.383	ASNAP	85.530	1.460	
2002/09/05	02:13:16	47.70994279	-127.78578180	2600.565	EVT	85.550	1.470	we are finished water sampling
2002/09/05	02:14:07	47.70994236	-127.78578388	2600.477	EVT	85.440	1.400	retracting sampler intake
2002/09/05	02:14:08	47.70994231	-127.78578396	2600.470	ASNAP	85.510	1.410	
2002/09/05	02:14:25	47.70994201	-127.78578483	2600.504	EVT	85.450	1.410	clumps of sediment stuck to the sides of the cylinder
2002/09/05	02:15:32	47.70994116	-127.78578989	2600.497	EVT	85.510	1.450	reverse pumping: sediment coming out of the intake
2002/09/05	02:16:08	47.70994092	-127.78579036	2600.565	ASNAP	85.470	1.400	
2002/09/05	02:17:01	47.70994093	-127.78579196	2600.592	EVT	85.510	1.410	shaking the intake around the get the sediment off
2002/09/05	02:18:08	47.70994154	-127.78579269	2600.673	ASNAP	85.660	1.420	
2002/09/05	02:18:21	47.70994150	-127.78579272	2600.572	EVT	85.630	1.440	putting the intake back into the bucket
2002/09/05	02:19:33	47.70994015	-127.78579431	2600.443	EVT	85.480	1.450	now picking up a push-corer and pushing it into the
same hole								
2002/09/05	02:20:08	47.70994123	-127.78579127	2600.491	ASNAP	85.420	1.390	
2002/09/05	02:20:10	47.70994144	-127.78579106	2600.531	EVT	85.440	1.400	port side corer has the original sediment core
2002/09/05	02:20:40	47.70994154	-127.78578959	2600.552	EVT	85.420	1.400	using the unused starboard corer to push further into
the same hole but will not save the core								
2002/09/05	02:22:01	47.70994274	-127.78578712	2600.633	EVT	85.370	1.420	running the flush pump on forward
2002/09/05	02:22:08	47.70994263	-127.78578730	2600.552	ASNAP	85.460	1.470	
2002/09/05	02:24:08	47.70994361	-127.78578153	2600.558	ASNAP	85.430	1.420	
2002/09/05	02:24:32	47.70994379	-127.78578148	2600.633	EVT	85.500	1.460	positioning the push-corer over the hole
2002/09/05	02:25:34	47.70994253	-127.78578205	2600.626	EVT	85.420	1.440	we are pushing in the push-corer

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/05	02:25:48	47.70994219	-127.78578279	2600.585	EVT	85.520	1.490	pulling it back out
2002/09/05	02:26:08	47.70994191	-127.78578339	2600.626	ASNA	85.500	1.440	
2002/09/05	02:26:22	47.70994181	-127.78578264	2600.626	EVT	85.500	1.410	bottom third of the corer has grayish sediment in it
2002/09/05	02:26:36	47.70994200	-127.78578241	2600.538	EVT	85.550	1.440	shaking the corer out away from the hole
2002/09/05	02:27:01	47.70994252	-127.78578141	2600.619	EVT	85.420	1.420	Pachycara
2002/09/05	02:27:52	47.70994311	-127.78577973	2600.714	EVT	85.430	1.370	putting the starboard push-corer (#3) back in the
	basket							
2002/09/05	02:28:08	47.70994292	-127.78577997	2600.700	ASNA	85.450	1.380	
2002/09/05	02:29:36	47.70994046	-127.78577675	2600.545	EVT	85.330	1.440	picking up the temperature probe to take a
	measurement at the bottom of the core hole							
2002/09/05	02:30:08	47.70994016	-127.78577740	2600.612	ASNA	85.500	1.400	
2002/09/05	02:32:08	47.70994045	-127.78577480	2600.721	ASNA	85.500	1.410	
2002/09/05	02:33:06	47.70993982	-127.78577465	2600.687	EVT	85.510	1.430	Temperature probing at Marker 17
2002/09/05	02:34:08	47.70993889	-127.78577812	2600.626	ASNA	85.530	1.430	
2002/09/05	02:35:28	47.70993638	-127.78578009	2600.585	EVT	85.400	1.460	taking the
2002/09/05	02:35:39	47.70993594	-127.78577994	2600.612	EVT	85.400	1.440	temperature of the core hole
2002/09/05	02:35:50	47.70993614	-127.78578007	2600.700	EVT	85.680	1.370	Marker 17 Temperature Probing the Sediment
2002/09/05	02:36:00	47.70993503	-127.78578022	2600.626	EVT	85.730	1.430	TEMP 5.2 and rapidly rising
2002/09/05	02:36:08	47.70993465	-127.78578063	2600.606	ASNA	85.720	1.370	
2002/09/05	02:36:09	47.70993464	-127.78578070	2600.612	EVT	85.700	1.370	Probe hit the bottom and can go no further
2002/09/05	02:36:11	47.70993464	-127.78578076	2600.646	EVT	85.710	1.370	the temp probe touched the bottom of the core hole
2002/09/05	02:37:01	47.70993378	-127.78578520	2600.727	EVT	85.810	1.370	the bottom of the core hole is hard enough to lift
	Jason as the probe touched bottom							
2002/09/05	02:37:24	47.70993379	-127.78578721	2600.585	EVT	85.770	1.360	TEMP 9.2 and going up
2002/09/05	02:38:08	47.70993338	-127.78579022	2600.606	ASNA	85.820	1.380	
2002/09/05	02:38:15	47.70993315	-127.78579057	2600.694	EVT	85.830	1.430	9.7 TEMP
2002/09/05	02:38:59	47.70993282	-127.78579242	2600.721	EVT	85.910	1.370	TEMP 10.1
2002/09/05	02:40:08	47.70993316	-127.78579489	2600.599	ASNA	85.490	1.430	
2002/09/05	02:40:51	47.70993267	-127.78579524	2600.782	EVT	85.570	1.440	Release the Thermal Blanket
2002/09/05	02:41:15	47.70993236	-127.78579604	2600.612	EVT	85.480	1.440	is the next operation
2002/09/05	02:42:08	47.70993482	-127.78579182	2600.741	ASNA	85.520	1.380	
2002/09/05	02:43:28	47.70993553	-127.78578971	2599.835	EVT	84.770	2.380	preparing to spread thermal blanket
2002/09/05	02:44:08	47.70993566	-127.78578999	2599.747	ASNA	84.530	2.360	
2002/09/05	02:46:08	47.70993562	-127.78579015	2599.584	ASNA	84.740	2.550	
2002/09/05	02:48:08	47.70993572	-127.78579014	2599.584	ASNA	84.820	2.670	
2002/09/05	02:50:08	47.70993557	-127.78579016	2599.781	ASNA	84.930	2.520	
2002/09/05	02:52:08	47.70993555	-127.78579005	2599.598	ASNA	84.680	2.600	
2002/09/05	02:52:20	47.70993550	-127.78578998	2599.659	EVT	84.810	2.570	fish in view below arm
2002/09/05	02:54:08	47.70993559	-127.78579001	2599.672	ASNA	84.620	2.600	
2002/09/05	02:54:26	47.70993534	-127.78579008	2599.517	EVT	84.850	2.680	brittle stars near marker 17
2002/09/05	02:56:08	47.70993557	-127.78579020	2599.767	ASNA	85.000	2.530	

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/05	02:56:19	47.70993539	-127.78579003	2599.584	EVT	85.000	2.660	thermal blank is already dropped now going for ICL
		measurements						
2002/09/05	02:58:08	47.70993607	-127.78579384	2600.274	ASNAP	85.540	1.940	
2002/09/05	03:00:08	47.70993441	-127.78579703	2600.159	ASNAP	85.470	2.030	
2002/09/05	03:00:36	47.70993442	-127.78579741	2600.240	EVT	85.630	2.010	deploying blanket
2002/09/05	03:01:05	47.70993440	-127.78579752	2600.254	EVT	85.680	1.940	pulled the cord for float on thermal blanket
2002/09/05	03:02:08	47.70993441	-127.78579823	2600.322	ASNAP	85.490	2.060	
2002/09/05	03:04:08	47.70993398	-127.78579877	2599.165	ASNAP	84.740	3.070	
2002/09/05	03:06:05	47.70993497	-127.78579643	2600.261	EVT	84.880	1.950	thermal blanket was on the swing platform, now
		deployed on sediment						
2002/09/05	03:06:08	47.70993489	-127.78579689	2600.207	ASNAP	84.870	1.990	
2002/09/05	03:06:39	47.70993493	-127.78579557	2600.315	EVT	84.510	1.920	Bio Blanket going in..But slope may be too steep
2002/09/05	03:08:08	47.70993362	-127.78579741	2600.254	ASNAP	84.500	1.960	
2002/09/05	03:09:08	47.70993206	-127.78579985	2600.342	EVT	84.460	1.960	thermal blanket position slid from where it was
		dropped						
2002/09/05	03:10:08	47.70993053	-127.78580232	2600.227	ASNAP	84.510	1.960	
2002/09/05	03:10:55	47.70992989	-127.78580364	2600.261	EVT	84.500	1.950	Bioblanket is down.
2002/09/05	03:12:08	47.70992837	-127.78580660	2600.295	ASNAP	84.550	1.960	
2002/09/05	03:12:15	47.70992774	-127.78580760	2600.315	EVT	84.530	1.940	redeploying thermal blanket
2002/09/05	03:12:19	47.70992717	-127.78580838	2600.403	EVT	84.560	1.930	moving bioblanket... to cover existing hole. Figure
		more likely hot water ...						
2002/09/05	03:14:08	47.70993920	-127.78580603	2599.030	ASNAP	80.350	2.890	
2002/09/05	03:14:40	47.70993744	-127.78582148	2598.232	EVT	83.180	3.990	Bioblanket: still moving it. Dave B: "past those holes
		to the right.. anywhere but the holes is fine"						
2002/09/05	03:15:10	47.70990714	-127.78581617	2598.732	EVT	58.770	4.380	trying to avoid steep slopes, site to the right of 17
		was rejected						
2002/09/05	03:16:08	47.70991707	-127.78579854	2600.038	ASNAP	36.850	1.880	
2002/09/05	03:18:08	47.70991753	-127.78579594	2600.227	ASNAP	36.870	1.800	
2002/09/05	03:20:08	47.70991809	-127.78579183	2600.173	ASNAP	36.960	1.860	
2002/09/05	03:20:23	47.70991810	-127.78579159	2600.193	EVT	36.940	1.860	Bioblanket- moving it yet again
2002/09/05	03:22:08	47.70991764	-127.78579460	2600.328	ASNAP	37.030	1.850	
2002/09/05	03:22:33	47.70991762	-127.78579486	2600.139	EVT	37.080	1.880	octopus in the distance
2002/09/05	03:23:21	47.70991739	-127.78579610	2600.281	EVT	37.090	1.710	Bioblanket down: FINAL
2002/09/05	03:23:24	47.70991731	-127.78579618	2600.301	EVT	37.020	1.710	thermal blanket deployed
2002/09/05	03:23:43	47.70991740	-127.78579581	2600.362	EVT	36.980	1.710	Octopus in background...
2002/09/05	03:24:06	47.70991748	-127.78579620	2600.274	EVT	37.050	1.710	thermal blanket
2002/09/05	03:24:08	47.70991745	-127.78579629	2600.261	ASNAP	37.090	1.770	
2002/09/05	03:26:08	47.70991692	-127.78580096	2599.551	ASNAP	43.740	2.550	
2002/09/05	03:28:09	47.70995634	-127.78581387	2598.624	ASNAP	84.930	2.780	
2002/09/05	03:28:17	47.70996135	-127.78581534	2598.577	EVT	84.890	2.850	Octopus
2002/09/05	03:30:09	47.70995129	-127.78576666	2597.440	ASNAP	120.780	2.320	

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/05	03:30:51	47.70995198	-127.78575967	2598.042	EVT	117.340	1.800	BIO.mnvf Brittle_Stars
2002/09/05	03:32:09	47.70995219	-127.78576042	2598.110	ASNAp	118.390	1.670	
2002/09/05	03:33:26	47.70995324	-127.78576240	2598.171	EVT	117.910	1.650	Outcrop for Rocks: collecting rocks for Cathy
2002/09/05	03:34:09	47.70995409	-127.78576395	2598.171	ASNAp	118.060	1.700	
2002/09/05	03:35:11	47.70995801	-127.78575707	2598.008	EVT	122.030	1.440	Repositioning
2002/09/05	03:35:30	47.70995910	-127.78575626	2598.042	EVT	121.810	1.430	Crinoid- bacd a few frames
2002/09/05	03:36:09	47.70995967	-127.78575633	2597.968	ASNAp	122.170	1.470	
2002/09/05	03:38:09	47.70995843	-127.78576010	2598.069	ASNAp	122.180	1.450	
2002/09/05	03:40:09	47.70995648	-127.78574957	2597.718	ASNAp	121.790	1.550	
2002/09/05	03:40:11	47.70995659	-127.78574955	2597.833	EVT	121.940	1.560	rock sample crumbled
2002/09/05	03:40:28	47.70995690	-127.78574932	2597.853	EVT	122.240	1.530	Rock
2002/09/05	03:42:09	47.70996641	-127.78576789	2597.143	ASNAp	121.810	2.150	
2002/09/05	03:43:04	47.70999839	-127.78578058	2596.385	EVT	82.430	2.590	Octopus.
2002/09/05	03:44:04	47.71001105	-127.78577282	2596.074	EVT	72.760	2.350	brittle stars all over rocks near 17
2002/09/05	03:44:09	47.71001109	-127.78577278	2596.054	ASNAp	72.760	2.280	
2002/09/05	03:45:03	47.71001070	-127.78577296	2596.027	EVT	72.220	2.290	rock sampling
2002/09/05	03:45:39	47.71001048	-127.78577273	2596.074	EVT	72.740	2.370	rock in grasp
2002/09/05	03:45:58	47.71001035	-127.78577290	2596.081	EVT	72.540	2.360	BIO.mnvf Brittle_Stars TXT Brittle stars, entwined-
								octopus under ledge
2002/09/05	03:46:09	47.71001049	-127.78577306	2595.973	ASNAp	72.470	2.360	
2002/09/05	03:46:32	47.71001055	-127.78577323	2596.054	EVT	72.850	2.360	Rock collectd-small one
2002/09/05	03:46:36	47.71001063	-127.78577319	2596.101	EVT	72.680	2.250	small rock taken
2002/09/05	03:48:05	47.71000945	-127.78577262	2596.081	EVT	72.960	2.420	octopus at rock
2002/09/05	03:48:09	47.71000934	-127.78577269	2595.959	ASNAp	72.490	2.430	
2002/09/05	03:48:49	47.71000954	-127.78577402	2596.480	EVT	88.830	1.850	Octopus defends its Rock: Second one- Large
2002/09/05	03:48:59	47.71000960	-127.78577394	2596.399	EVT	88.910	1.920	Spider crab and Octopus
2002/09/05	03:49:13	47.71000937	-127.78577429	2596.351	EVT	88.930	2.030	octopus tenticle, crab in background
2002/09/05	03:49:30	47.71000932	-127.78577421	2596.291	EVT	88.740	1.970	Octopus defending its rocks
2002/09/05	03:49:39	47.71000945	-127.78577406	2596.338	EVT	88.880	2.000	Rock- with octopus eggs
2002/09/05	03:49:44	47.71000940	-127.78577418	2596.304	EVT	88.940	2.000	octopus eggs on rock
2002/09/05	03:49:49	47.71000934	-127.78577423	2596.378	EVT	88.950	2.010	Rocks and octopus
2002/09/05	03:49:54	47.71000927	-127.78577430	2596.500	EVT	88.820	1.980	rock and eggs
2002/09/05	03:50:05	47.71000928	-127.78577433	2596.433	EVT	88.770	1.920	Rock with Eggs
2002/09/05	03:50:09	47.71000925	-127.78577436	2596.331	ASNAp	88.780	1.940	
2002/09/05	03:50:14	47.71000928	-127.78577443	2596.466	EVT	88.780	1.930	rock and eggs again
2002/09/05	03:50:41	47.71000874	-127.78577523	2596.466	EVT	88.760	1.950	brittle stars in background
2002/09/05	03:52:09	47.71000867	-127.78577586	2596.304	ASNAp	88.740	2.000	
2002/09/05	03:52:53	47.71000911	-127.78577571	2596.493	EVT	88.580	1.950	another shot of rock
2002/09/05	03:53:02	47.71000935	-127.78577530	2596.351	EVT	88.590	1.950	Rock 2: in bucket
2002/09/05	03:53:23	47.71000957	-127.78577522	2596.493	EVT	88.920	1.960	Skate
2002/09/05	03:53:25	47.71000955	-127.78577521	2596.338	EVT	88.820	2.000	rock deposited in port milk crate

Event log: LEXEN 2002

Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/05	03:53:48	47.71001012	-127.78577461	2596.548	EVT	88.880	1.930	Digital camera off
2002/09/05	03:53:54	47.71001027	-127.78577452	2596.602	EVT	88.900	1.870	digital camera is off
2002/09/05	03:54:09	47.71001034	-127.78577466	2596.595	ASNAP	88.870	1.880	
2002/09/05	03:55:16	47.71001318	-127.78579227	2595.993	EVT	100.020	2.350	Octopus- which lost its eggs to Rock 2- closeup
2002/09/05	03:56:09	47.71002334	-127.78579210	2595.973	ASNAP	72.330	2.330	
2002/09/05	03:58:09	47.70995308	-127.78586347	2597.643	ASNAP	64.000	5.540	
2002/09/05	04:00:09	47.70990051	-127.78585103	2597.623	ASNAP	82.300	6.710	
2002/09/05	04:03:12	47.70988607	-127.78574685	2596.771	EVT	26.880	4.490	brittle stars all over here
2002/09/05	04:04:34	47.70992271	-127.78568633	2597.555	EVT	335.790	0.850	brittle stars
2002/09/05	04:05:01	47.70992340	-127.78568485	2597.440	EVT	335.730	0.840	potential rock sample
2002/09/05	04:05:46	47.70990566	-127.78581131	2597.576	EVT	57.790	5.770	thermal blanket and marker
2002/09/05	04:06:30	47.70997663	-127.78585478	2599.659	EVT	85.100	2.110	BIO.mnvf Brittle_Stars TXT close-up Brittle stars
2002/09/05	04:07:32	47.70998113	-127.78583233	2599.794	EVT	88.320	1.430	BIO.mnvf Brittle_Stars TXT Closeup-Brittle stars on outcrop, crinoids
2002/09/05	04:08:23	47.70998099	-127.78583264	2599.733	EVT	88.070	1.470	moved to other side of marker from potential rock sample previously listed
2002/09/05	04:08:36	47.70998102	-127.78583269	2599.639	EVT	88.200	1.470	rock sample crumbled
2002/09/05	04:13:14	47.70998064	-127.78583331	2599.841	EVT	88.300	1.460	rock with an egg like creature on it
2002/09/05	04:15:23	47.70998925	-127.78580566	2597.812	EVT	117.450	1.990	Rock 3: Back at first outcrop
2002/09/05	04:17:45	47.71005936	-127.78576081	2595.628	EVT	92.150	0.870	attempted rock sample
2002/09/05	04:18:30	47.71005966	-127.78576029	2595.628	EVT	91.000	0.790	Big Rock - trying to lift again
2002/09/05	04:22:10	47.71006095	-127.78575954	2595.648	EVT	91.490	0.750	rock was too heavy to pick up
2002/09/05	04:23:07	47.71006207	-127.78576041	2595.722	EVT	91.250	30.000	Big Rock..up!!!
2002/09/05	04:25:58	47.71007631	-127.78576633	2595.925	EVT	90.430	30.000	ooohhh. BIG rock down
2002/09/05	04:26:06	47.71008083	-127.78576718	2595.824	EVT	90.440	30.000	incoming rattail
2002/09/05	04:26:10	47.71008090	-127.78576571	2595.844	EVT	90.440	30.000	Fish in cloud of sediment.. approaching.
2002/09/05	04:26:39	47.71009158	-127.78576989	2595.716	EVT	90.460	30.000	Fish closeup
2002/09/05	04:26:44	47.71009137	-127.78576997	2595.763	EVT	90.460	30.000	rattail in the basket
2002/09/05	04:27:26	47.71009139	-127.78576928	2595.905	EVT	90.470	30.000	Fish face
2002/09/05	04:27:42	47.71009014	-127.78577658	2595.817	EVT	90.470	30.000	rattail up close
2002/09/05	04:27:52	47.71008881	-127.78577911	2595.824	EVT	90.470	30.000	Fish head II
2002/09/05	04:27:55	47.71008859	-127.78577805	2595.770	EVT	90.480	30.000	camera hog
2002/09/05	04:28:07	47.71008801	-127.78578741	2595.837	EVT	90.490	30.000	fish attacking camera
2002/09/05	04:28:14	47.71008616	-127.78579090	2595.885	EVT	90.490	30.000	barbels underneath
2002/09/05	04:29:37	47.71006257	-127.78573975	2595.634	EVT	124.750	30.000	Rock III!!
2002/09/05	04:29:51	47.71005254	-127.78570692	2595.790	EVT	124.760	30.000	rock sample in grasp
2002/09/05	04:30:16	47.71003584	-127.78564669	2595.675	EVT	124.760	30.000	Rock II onboard- with crinoid
2002/09/05	04:30:28	47.71002583	-127.78562023	2595.743	EVT	124.770	30.000	brittle star crinoid on rock
2002/09/05	04:31:10	47.71001004	-127.78553864	2595.716	EVT	124.790	30.000	rock with crinoid
2002/09/05	04:31:15	47.71001180	-127.78553904	2595.722	EVT	124.790	30.000	Rock- bottom view
2002/09/05	04:31:35	47.71002897	-127.78552425	2595.743	EVT	124.810	30.000	Rock side view

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/05	04:31:52	47.71004200	-127.78552467	2595.776	EVT	124.810	30.000	Rock on board
2002/09/05	04:31:54	47.71004409	-127.78552628	2595.682	EVT	124.820	30.000	rock in basket port side
2002/09/05	04:32:55	47.71005884	-127.78544616	2595.743	EVT	124.840	30.000	done with rocks, moving to next site
2002/09/05	04:52:31	47.70992564	-127.78586039	2603.521	EVT	81.110	3.260	marker 23 in sight
2002/09/05	04:54:44	47.70991407	-127.78585737	2603.291	EVT	81.160	3.690	we found an alvin track
2002/09/05	04:57:54	47.70991418	-127.78585744	2603.298	EVT	81.120	3.530	we have found markers 23 and 30; we did not put them down.
2002/09/05	04:58:23	47.70991406	-127.78585758	2603.169	EVT	81.220	3.630	we can almost make the thermal blanket out in the distance
2002/09/05	05:00:09	47.70991385	-127.78584115	2603.413	EVT	79.820	2.730	hunting for fluid in holes\
2002/09/05	05:00:55	47.70991590	-127.78582896	2603.900	EVT	81.180	1.850	we are 20m from where we are supposed to be. BAD NAV
2002/09/05	05:02:16	47.70991643	-127.78582850	2603.879	EVT	81.100	2.000	Temperature probing this hole
2002/09/05	05:03:17	47.70991701	-127.78582833	2603.859	EVT	81.080	1.870	2.1 in the water
2002/09/05	05:03:20	47.70991707	-127.78582828	2603.893	EVT	81.000	1.890	temp pro
2002/09/05	05:04:06	47.70991666	-127.78582996	2603.987	EVT	80.870	1.960	Hit a hard bottom about 5"
2002/09/05	05:04:16	47.70991671	-127.78582994	2603.947	EVT	80.890	1.960	8.4 degrees and rising
2002/09/05	05:04:55	47.70991767	-127.78582923	2604.021	EVT	80.890	1.970	9.7 degrees
2002/09/05	05:05:20	47.70991868	-127.78582895	2603.947	EVT	81.130	1.980	10.2 degrees max
2002/09/05	05:05:52	47.70991902	-127.78582899	2603.927	EVT	80.770	1.970	Moving probe around. 14 degrees and rising
2002/09/05	05:06:13	47.70991872	-127.78582934	2603.913	EVT	80.720	1.970	15.7 degrees and rising\
2002/09/05	05:06:36	47.70991841	-127.78583000	2603.879	EVT	80.770	1.960	16.6 degrees
2002/09/05	05:06:51	47.70991809	-127.78583052	2603.906	EVT	80.780	1.980	fluid coming up
2002/09/05	05:07:16	47.70991706	-127.78583172	2603.913	EVT	80.710	1.980	17.2 degrees
2002/09/05	05:07:34	47.70991650	-127.78583245	2603.886	EVT	80.720	1.980	17.3 degrees max
2002/09/05	05:07:42	47.70991618	-127.78583275	2603.974	EVT	80.710	1.980	octopod
2002/09/05	05:08:24	47.70991557	-127.78583357	2603.913	EVT	81.020	2.000	17.6 degrees max for that spot
2002/09/05	05:10:53	47.70991636	-127.78583279	2603.913	EVT	81.100	2.020	probing spot near to previous spot
2002/09/05	05:11:03	47.70991665	-127.78583259	2604.042	EVT	81.070	2.010	Moved probe around again. 5 degrees
2002/09/05	05:12:10	47.70991908	-127.78583056	2604.062	EVT	80.940	1.990	8.1 degrees max
2002/09/05	05:14:40	47.70992111	-127.78583264	2603.771	EVT	83.980	2.290	Going a meter forward to try another spot
2002/09/05	05:16:01	47.70992644	-127.78580222	2603.189	EVT	72.820	1.750	inserting probe near a bunch of brittle stars
2002/09/05	05:16:20	47.70992665	-127.78580210	2603.243	EVT	72.760	1.730	Probing temperature again.
2002/09/05	05:18:19	47.70992675	-127.78580207	2603.304	EVT	72.920	1.710	uplink cut out, will try again
2002/09/05	05:19:15	47.70992525	-127.78580309	2603.122	EVT	72.880	1.720	Touching rock again. Temp was 8 and rising but lost uplink
2002/09/05	05:23:04	47.70992353	-127.78580565	2603.162	EVT	72.580	1.720	Got up link back 9 and rising
2002/09/05	05:23:10	47.70992366	-127.78580544	2603.379	EVT	72.600	1.770	11 degrees
2002/09/05	05:24:23	47.70992566	-127.78580486	2603.237	EVT	72.560	1.780	15.5 degrees
2002/09/05	05:24:57	47.70992638	-127.78580524	2603.237	EVT	72.620	1.710	some fluid flow from hole
2002/09/05	05:25:04	47.70992658	-127.78580518	2603.277	EVT	72.670	1.680	16.1 degrees.

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/05	05:25:12	47.70992660	-127.78580540	2603.264	EVT	72.590	1.800	Moving on.
2002/09/05	05:25:54	47.70992629	-127.78580524	2603.304	EVT	72.960	1.700	cooked sediment says Paul
2002/09/05	05:26:08	47.70992594	-127.78580546	2603.331	EVT	72.960	1.670	blank-text
2002/09/05	05:26:51	47.70992476	-127.78580645	2603.358	EVT	72.950	1.660	blank-text
2002/09/05	05:26:59	47.70992445	-127.78580657	2603.331	EVT	72.960	1.660	Hot and flowing down?
2002/09/05	05:27:19	47.70992367	-127.78580687	2603.352	EVT	72.950	1.670	fluid is flowing down
2002/09/05	05:28:24	47.70992259	-127.78580702	2603.338	EVT	72.850	1.650	warm but flowing down and to the right
2002/09/05	05:28:43	47.70992239	-127.78580717	2603.331	EVT	72.910	1.670	Rising in the water column for a good fix
2002/09/05	05:30:41	47.70992291	-127.78580834	2603.311	EVT	72.970	1.660	view from above last temp probe
2002/09/05	05:30:42	47.70992289	-127.78580831	2603.494	EVT	72.990	1.640	thermal blanket
2002/09/05	05:31:11	47.70992298	-127.78580869	2603.271	EVT	73.090	1.650	blank-text
2002/09/05	05:34:29	47.70992447	-127.78581384	2601.465	EVT	78.650	3.580	We have gotten a good Jason fix on this spot
2002/09/05	05:34:37	47.70992461	-127.78581397	2601.722	EVT	78.630	3.340	Target 20
2002/09/05	05:47:54	47.70999722	-127.78591819	2602.114	EVT	57.680	3.480	moving to new site
2002/09/05	05:50:14	47.71003172	-127.78595042	2601.708	EVT	57.900	2.780	doing a search pattern around thermal blanket #17
		site. looking for hot water						
2002/09/05	05:59:56	47.71018191	-127.78612051	2597.981	EVT	79.900	1.760	Temperature probe in normal, non-hydrothermal
		sediments						
2002/09/05	06:02:33	47.71018096	-127.78611984	2597.894	EVT	79.760	1.760	temp = 2.2
2002/09/05	06:02:45	47.71018112	-127.78611934	2597.887	EVT	79.810	1.820	temp = 3.3
2002/09/05	06:02:54	47.71018116	-127.78611954	2597.894	EVT	79.950	1.780	temp = 3.8
2002/09/05	06:03:11	47.71018123	-127.78611978	2597.779	EVT	79.900	1.790	temp = 4.2
2002/09/05	06:03:24	47.71018147	-127.78611992	2597.880	EVT	79.920	1.780	4.3
2002/09/05	06:03:58	47.71018206	-127.78611990	2597.779	EVT	79.920	1.780	4.5
2002/09/05	06:04:34	47.71018245	-127.78612031	2597.731	EVT	79.900	1.780	4.5 = max temp
2002/09/05	06:09:43	47.71017632	-127.78613426	2596.128	EVT	108.790	3.800	We are heading east
2002/09/05	06:15:39	47.71010609	-127.78591385	2598.570	EVT	55.530	1.610	Going to temperature probe
2002/09/05	06:17:37	47.71010512	-127.78591499	2598.543	EVT	55.720	1.660	temperature = 5 and rising
2002/09/05	06:18:45	47.71010498	-127.78591479	2598.610	EVT	55.730	1.690	temperature = 8.1
2002/09/05	06:19:44	47.71010494	-127.78591474	2598.570	EVT	55.780	1.660	temperature = 8.8
2002/09/05	06:20:35	47.71010488	-127.78591468	2598.475	EVT	56.010	1.690	max temp = 9.0
2002/09/05	06:27:42	47.71012223	-127.78597431	2596.372	EVT	30.730	3.810	Underway for transit to summit to deploy wood
		sample						
2002/09/05	06:36:25	47.71024679	-127.78597157	2591.299	EVT	20.810	3.320	All kinds of Alvin tracks around here.
2002/09/05	06:38:22	47.71032072	-127.78592673	2588.039	EVT	45.520	4.960	We are at the summit
2002/09/05	06:41:33	47.71037542	-127.78585289	2590.068	EVT	133.160	2.990	We found the marker
2002/09/05	07:16:23	47.71039161	-127.78794501	2622.295	EVT	266.060	19.230	Coming up to nav target 17, the summit
2002/09/05	07:23:16	47.71038104	-127.78814943	2645.065	EVT	265.080	2.580	left the summit and gone 200m west to put the wood
		down for Janet						
2002/09/05	07:23:44	47.71038335	-127.78815295	2644.693	EVT	80.940	4.650	we did the transit at 2620m, from the summit to this
		location. Paul wanted it at this depth for the CTD to record						

Event log: LEXEN 2002

Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/05	07:30:18	47.71039911	-127.78790912	2642.563	EVT	183.880	30.000	we are deploying the wood
2002/09/05	07:33:29	47.71044910	-127.78780405	2642.441	EVT	184.020	30.000	taking a temperature probe with the ICL
2002/09/05	07:35:32	47.71045552	-127.78785851	2642.448	EVT	183.980	30.000	2.2 degrees in the sediment here
2002/09/05	07:36:45	47.71048233	-127.78789828	2642.346	EVT	184.010	30.000	so now that we have taken a temperature
measurement we are going to deploy the wood								
2002/09/05	07:39:18	47.71052606	-127.78786489	2642.556	EVT	184.250	30.000	wood is being deployed
2002/09/05	07:41:26	47.71055215	-127.78792310	2642.421	EVT	184.300	30.000	The wood is now deployed
2002/09/05	07:42:34	47.71056552	-127.78793745	2642.401	EVT	184.310	30.000	frame grab of the wood
2002/09/05	07:42:51	47.71057338	-127.78793783	2642.482	EVT	184.320	30.000	frame grab of wood
2002/09/05	07:43:04	47.71057394	-127.78794425	2642.299	EVT	184.330	30.000	frame grab of wood
2002/09/05	07:43:17	47.71058423	-127.78795113	2642.488	EVT	184.310	30.000	wood frame grab
2002/09/05	07:43:39	47.71061171	-127.78796884	2642.346	EVT	184.310	30.000	wood frame grab
2002/09/05	07:44:55	47.71061612	-127.78800743	2639.053	EVT	211.450	3.350	Nav target 21 marked at Janets wood site
2002/09/05	07:45:23	47.71061715	-127.78800997	2635.002	EVT	179.440	8.170	now we are moving back to the summit
2002/09/05	07:45:45	47.71061729	-127.78801520	2626.766	EVT	185.670	15.850	sorry, we are going back to nav targets 19 and 20
2002/09/05	07:45:58	47.71062207	-127.78801814	2621.274	EVT	267.350	19.440	transit will be at 2620 m depth for a ctd survey
2002/09/05	07:46:36	47.71059758	-127.78813023	2610.054	EVT	180.990	30.000	we are transitting back to nav targets 19 and 20
2002/09/05	08:17:27	47.70989563	-127.78596589	2597.035	EVT	136.650	2.370	we are on the bottom at marker 19 now
2002/09/05	08:24:34	47.70977280	-127.78592604	2601.505	EVT	279.300	1.020	taking a ICL temperature measurement
2002/09/05	08:25:22	47.70977076	-127.78592492	2601.411	EVT	279.310	1.000	pan and tilt is out
2002/09/05	08:27:13	47.70977225	-127.78592165	2601.526	EVT	279.390	1.000	looks like the pan and tilt will not come back online
2002/09/05	08:29:11	47.70977323	-127.78592704	2601.526	EVT	279.420	0.990	bottom water temperature is 2.1, as measured from
the probe								
2002/09/05	08:29:26	47.70977313	-127.78592753	2601.559	EVT	279.440	0.990	taking probe measurement
2002/09/05	08:29:40	47.70977398	-127.78592859	2601.417	EVT	279.450	0.990	slowly rising from 2.4 degrees
2002/09/05	08:29:44	47.70977408	-127.78592860	2601.532	EVT	279.440	0.800	2.6 degrees
2002/09/05	08:29:48	47.70977420	-127.78592880	2601.438	EVT	279.450	30.000	2.8 degrees
2002/09/05	08:30:04	47.70977425	-127.78592961	2601.485	EVT	279.460	30.000	3.0 degrees
2002/09/05	08:30:36	47.70977541	-127.78593192	2601.465	EVT	279.460	0.780	maximum temperature we recorded was 3.0 degrees.
Pulled the probe out at this temperature								
2002/09/05	08:31:02	47.70977419	-127.78593033	2601.397	EVT	279.460	30.000	dropped the ICL probe
2002/09/05	08:31:26	47.70977262	-127.78592810	2601.478	EVT	279.480	0.780	getting a good fix before he moves the vehicle to pick
up the probe								
2002/09/05	08:34:30	47.70977066	-127.78592100	2601.485	EVT	279.450	0.780	taking a push core in this spot
2002/09/05	08:34:45	47.70977079	-127.78592234	2601.559	EVT	279.440	0.770	push core is the second one in in the basket from the
starboard side of Jason								
2002/09/05	08:35:07	47.70977141	-127.78592398	2601.404	EVT	279.490	0.790	sediments filled about two thirds of the core
2002/09/05	08:35:25	47.70977198	-127.78592359	2601.377	EVT	279.420	0.780	dark grey sediment in the bottom half of the core and
reddish sediment on the top								
2002/09/05	08:36:31	47.70977175	-127.78592595	2601.424	EVT	279.420	0.770	can't zoom in with the camera we are using to get a
close up to see if there is flow out of this hole								

Event log: LEXEN 2002
Dive J2-004

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/05	08:37:34	47.70976911	-127.78592670	2601.343	EVT	279.410	0.780	Taking measurements with Butterfield sampler of flow from this core hole
2002/09/05	08:39:12	47.70977034	-127.78592942	2601.438	EVT	279.380	1.060	dropped the butterfield temperature probe
2002/09/05	08:39:41	47.70977086	-127.78592983	2601.282	EVT	279.380	1.060	picked it up again
2002/09/05	08:44:16	47.70976567	-127.78593659	2601.438	EVT	304.830	30.000	picking up the probe
2002/09/05	08:44:26	47.70976511	-127.78593466	2601.505	EVT	299.100	30.000	blank-text
2002/09/05	08:44:36	47.70976548	-127.78593665	2601.620	EVT	302.680	0.850	blank-text
2002/09/05	08:44:53	47.70976575	-127.78593525	2601.485	EVT	302.560	0.840	trying to pick up ICL probe
2002/09/05	08:45:02	47.70976557	-127.78593580	2601.471	EVT	302.470	0.840	trying to pick up ICL probe
2002/09/05	08:45:18	47.70976631	-127.78593674	2601.586	EVT	302.520	0.840	trying to pick up ICL probe
2002/09/05	08:45:27	47.70976626	-127.78593775	2601.539	EVT	302.420	0.840	trying to pick up ICL probe
2002/09/05	08:45:32	47.70976691	-127.78593824	2601.654	EVT	302.440	0.830	got the probe
2002/09/05	08:45:48	47.70976689	-127.78593838	2601.654	EVT	302.470	0.820	got the probe
2002/09/05	08:46:24	47.70976818	-127.78594043	2601.465	EVT	302.720	0.820	now we are going to leave this and go pick up the thermal blanket
2002/09/05	08:46:43	47.70976696	-127.78593857	2601.519	EVT	302.750	0.830	not going to take any samples with the Butterfield sampler because there was no great temperature change
2002/09/05	08:48:46	47.70982693	-127.78606924	2599.476	EVT	304.170	2.610	going to retrieve thermal blanket
2002/09/05	08:53:38	47.70990502	-127.78611458	2600.606	EVT	40.040	3.330	found the thermal blanket
2002/09/05	08:54:07	47.70993098	-127.78607931	2599.294	EVT	42.910	2.800	thermal blanket
2002/09/05	08:54:11	47.70993090	-127.78607376	2599.368	EVT	63.720	2.710	thermal blanket
2002/09/05	08:54:13	47.70993155	-127.78607194	2599.503	EVT	65.120	2.680	thermal blanket
2002/09/05	08:54:27	47.70993275	-127.78607165	2599.388	EVT	66.440	2.570	started taking digital stills of thermal blanket
2002/09/05	08:59:30	47.70993173	-127.78607278	2599.388	EVT	66.740	2.530	thermal blanket
2002/09/05	09:00:12	47.70993914	-127.78606578	2600.328	EVT	67.730	1.180	we will begin thermal blanket recovery
2002/09/05	09:02:29	47.70994144	-127.78604928	2597.346	EVT	66.620	3.630	thermal blanket recovery
2002/09/05	09:02:58	47.70994061	-127.78605046	2596.027	EVT	66.870	4.980	thermal blanket recovery
2002/09/05	09:03:55	47.70994744	-127.78602341	2595.222	EVT	89.910	4.830	thermal blanket recovery
2002/09/05	09:05:02	47.70994737	-127.78602386	2595.141	EVT	89.900	4.880	can't lock the thermal blanket in, it is just sitting in behind the tool basket
2002/09/05	09:05:49	47.70994758	-127.78601821	2595.168	EVT	89.890	4.610	pan and tilt came back on now
2002/09/05	09:10:50	47.70994761	-127.78600804	2595.330	EVT	89.920	4.080	ready to leave the bottom
2002/09/05	09:12:28	47.70994757	-127.78582945	2594.106	EVT	89.880	3.930	coming up
2002/09/05	10:53:08	47.70978637	-127.78552025	0.445	EVT	64.350	30.000	medea on deck\
2002/09/05	10:56:56	47.70978637	-127.78552025	-0.164	EVT	80.330	30.000	Jason out of water

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	10:12:25	47.70980493	-127.78556274	0.630	EVT	357.910	30.000	Doing pre-dive for J2-005
2002/09/06	10:24:01	47.70980485	-127.78556305	1.013	EVT	357.370	30.000	30 min launch notice given to bridge
2002/09/06	10:24:24	47.70980507	-127.78556195	1.034	EVT	359.060	30.000	SM2000 is not currently working
2002/09/06	10:25:35	47.70980502	-127.78556232	1.068	EVT	358.460	30.000	Digital camera is drawing power, but does not seem
to be sending pictures up cable								
2002/09/06	10:30:41	47.70980539	-127.78555903	1.082	EVT	3.890	30.000	dfc back online
2002/09/06	11:06:31	47.70980546	-127.78555054	1.164	EVT	17.380	30.000	medea wet
2002/09/06	11:08:28	47.70979051	-127.78557801	1.979	EVT	284.280	4.530	Jason wet
2002/09/06	11:10:34	47.70981867	-127.78559994	23.295	EVT	282.130	30.000	Jason descending
2002/09/06	11:18:59	47.71016656	-127.78472824	57.507	EVT	216.650	30.000	blank-text
2002/09/06	11:19:10	47.71018033	-127.78470505	57.521	EVT	212.940	30.000	squid inking
2002/09/06	13:01:25	47.70986158	-127.78522928	2610.392	EVT	290.100	5.870	bottom in sight
2002/09/06	13:01:31	47.70985818	-127.78522355	2610.764	EVT	290.120	5.660	starting tapes
2002/09/06	13:03:00	47.70988991	-127.78528897	2609.378	EVT	289.880	3.360	headed for targets 19 and 20
2002/09/06	13:03:42	47.70993516	-127.78530010	2607.802	EVT	290.080	3.400	blank-text
2002/09/06	13:03:49	47.70993826	-127.78529001	2607.532	EVT	290.300	3.880	wee octo
2002/09/06	13:04:18	47.70993922	-127.78528746	2607.667	EVT	289.930	4.050	looking at a white spot
2002/09/06	13:04:25	47.70993917	-127.78528799	2607.903	EVT	290.060	3.750	blank-text
2002/09/06	13:04:40	47.70993888	-127.78528765	2607.504	EVT	289.750	4.020	previous - more white spot
2002/09/06	13:05:46	47.70994949	-127.78533286	2605.739	EVT	290.290	3.920	blank-text
2002/09/06	13:06:04	47.70995134	-127.78533845	2606.077	EVT	290.080	3.260	pen? urchin? i'm not a benthic biologist
2002/09/06	13:06:05	47.70995121	-127.78533849	2605.962	EVT	289.980	3.270	blank-text
2002/09/06	13:06:24	47.70995309	-127.78533673	2606.159	EVT	289.860	3.230	previous - another shot
2002/09/06	13:08:05	47.70999818	-127.78533298	2604.535	EVT	290.080	3.980	looking for venting
2002/09/06	13:08:22	47.71000206	-127.78534339	2602.527	EVT	290.450	5.740	but Dave doesn't know for sure what to look for here
2002/09/06	13:12:46	47.71005222	-127.78549655	2597.488	EVT	290.370	1.920	Checking out a spot with shell debris
2002/09/06	13:13:01	47.71005433	-127.78550069	2597.352	EVT	290.320	1.830	Used to be a vent site says Paul
2002/09/06	13:14:17	47.71006131	-127.78553095	2595.418	EVT	290.040	2.650	More clam shells
2002/09/06	13:14:35	47.71006477	-127.78554349	2595.093	EVT	290.220	2.600	Dave thinks the shells are probably sliding downhill
from vent site								
2002/09/06	13:14:35	47.71006477	-127.78554349	2595.093	EVT	290.220	2.600	Dave thinks the shells are probably sliding downhill
from vent site								
2002/09/06	13:16:34	47.71006937	-127.78562664	2592.543	EVT	274.420	2.900	marker in the distance
2002/09/06	13:16:34	47.71006937	-127.78562664	2592.543	EVT	274.420	2.900	marker in the distance
2002/09/06	13:17:37	47.71006896	-127.78567444	2592.131	EVT	251.250	2.660	checking out marker - its marker 17
2002/09/06	13:17:48	47.71006849	-127.78567530	2592.253	EVT	251.350	2.500	blank-text
2002/09/06	13:18:02	47.71006774	-127.78567961	2591.996	EVT	251.100	2.750	previous - is this a probe poking out?
2002/09/06	13:18:12	47.71006652	-127.78567994	2592.388	EVT	251.260	2.360	blank-text
2002/09/06	13:18:28	47.71005682	-127.78569004	2593.240	EVT	251.040	1.950	going to check out what we think is a probe top
2002/09/06	13:21:03	47.71003604	-127.78570835	2595.438	EVT	279.720	0.870	here's the probe
2002/09/06	13:21:16	47.71003418	-127.78571234	2595.729	EVT	278.650	0.760	going to do a bunch of frame grabs here

Event log: LEXEN 2002

Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	13:21:24	47.71003376	-127.78571509	2595.939	EVT	279.660	30.000	blank-text
2002/09/06	13:21:39	47.71002824	-127.78569660	2595.851	EVT	280.830	30.000	blank-text
2002/09/06	13:22:39	47.70999032	-127.78568408	2595.749	EVT	291.190	1.070	the probe
2002/09/06	13:23:27	47.71002117	-127.78569159	2596.778	EVT	296.170	30.000	blank-text
2002/09/06	13:23:36	47.71002248	-127.78568783	2596.730	EVT	295.640	30.000	the probe tip again
2002/09/06	13:24:06	47.71001232	-127.78569224	2597.204	EVT	296.710	30.000	and again
2002/09/06	13:24:22	47.71001259	-127.78569197	2597.204	EVT	297.620	30.000	probably number one - no polypro lining
2002/09/06	13:24:58	47.71001239	-127.78569161	2597.285	EVT	296.870	30.000	fluid is coming out? says Paul
2002/09/06	13:25:00	47.71001239	-127.78569161	2597.210	EVT	296.860	30.000	blank-text
2002/09/06	13:25:07	47.71001240	-127.78569160	2597.129	EVT	296.850	30.000	fluid! woohoo!
2002/09/06	13:25:12	47.71001239	-127.78569161	2597.136	EVT	296.850	30.000	blank-text
2002/09/06	13:25:36	47.71001239	-127.78569162	2597.082	EVT	296.860	30.000	son of a b...gun says Paul
2002/09/06	13:26:05	47.71001239	-127.78569161	2597.224	EVT	296.870	30.000	TEMP anomaly 1.819
2002/09/06	13:26:12	47.71001240	-127.78569161	2597.204	EVT	296.880	30.000	making our own plume here
2002/09/06	13:26:19	47.71001240	-127.78569161	2597.197	EVT	296.890	30.000	TEMP 1.86 anomaly
2002/09/06	13:26:58	47.71001239	-127.78569163	2597.197	EVT	296.890	30.000	this is a 1.5 meter probe
2002/09/06	13:27:26	47.71001239	-127.78569162	2597.204	EVT	296.880	30.000	got a bit cloudy here
2002/09/06	13:28:56	47.71001239	-127.78569162	2597.183	EVT	296.870	30.000	another probe is behind the sub - with 1 polypro line
2002/09/06	13:29:03	47.71001239	-127.78569163	2597.109	EVT	296.880	30.000	blank-text
2002/09/06	13:29:19	47.71001239	-127.78569163	2597.150	EVT	296.880	30.000	previous - probe tip in sediment cloud
2002/09/06	13:30:12	47.71001239	-127.78569162	2597.177	EVT	296.870	30.000	another pic
2002/09/06	13:30:22	47.71001238	-127.78569163	2597.116	EVT	296.870	30.000	trying to figure out where to go and what to do from
	here							
2002/09/06	13:30:37	47.71001238	-127.78569163	2597.156	EVT	296.860	30.000	talking about where the third probe is
2002/09/06	13:30:37	47.71001238	-127.78569163	2597.156	EVT	296.860	30.000	talking about where the third probe is
2002/09/06	13:31:01	47.71001145	-127.78569481	2596.642	EVT	302.040	30.000	lifting off to find third probe
2002/09/06	13:32:57	47.70990231	-127.78574334	2596.433	EVT	356.240	2.330	going to turn and look for probe
2002/09/06	13:32:57	47.70990230	-127.78574516	2596.399	EVT	358.400	2.350	blank-text
2002/09/06	13:33:03	47.70990087	-127.78575664	2596.338	EVT	10.840	3.220	big hole from weight
2002/09/06	13:33:14	47.70990756	-127.78577040	2596.426	EVT	51.860	4.150	blank-text
2002/09/06	13:33:16	47.70990821	-127.78577171	2596.426	EVT	55.590	4.270	blank-text
2002/09/06	13:33:25	47.70991071	-127.78577883	2596.196	EVT	81.920	4.820	shots of probe and weight divot
2002/09/06	13:33:33	47.70991606	-127.78578120	2596.338	EVT	107.320	4.460	vent
2002/09/06	13:33:44	47.70990456	-127.78578712	2596.514	EVT	109.090	4.620	shell debris field
2002/09/06	13:33:59	47.70988766	-127.78576635	2596.304	EVT	108.600	4.820	number 2 looks bent
2002/09/06	13:34:19	47.70987677	-127.78575133	2596.750	EVT	97.000	3.870	this one is number 3
2002/09/06	13:34:42	47.70986778	-127.78574446	2596.730	EVT	81.200	4.180	a few entries previous i wrote vent - it should be bent
2002/09/06	13:35:10	47.70987021	-127.78574436	2596.635	EVT	64.210	4.130	looking at the probe... this is probe number 5
2002/09/06	13:35:27	47.70986974	-127.78574656	2596.602	EVT	64.190	4.090	blank-text
2002/09/06	13:35:38	47.70986853	-127.78574865	2596.466	EVT	64.220	4.310	probe tip... thinking of seeing if it can be used
	anyway							

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	13:36:07	47.70987382	-127.78577155	2596.832	EVT	87.410	4.680	this is a 3 meter probe
2002/09/06	13:36:59	47.70987116	-127.78575554	2597.664	EVT	86.390	3.330	other probe is number 4 - going to look for it
2002/09/06	13:37:21	47.70987827	-127.78575267	2598.232	EVT	79.020	2.620	heres the probe tip
2002/09/06	13:37:36	47.70988176	-127.78575495	2598.326	EVT	83.080	2.470	you can see the holes where the fluid goes in? says
Paul								
2002/09/06	13:38:37	47.70987906	-127.78575921	2597.447	EVT	61.240	3.440	discussing where other probe might be
2002/09/06	13:40:22	47.70991375	-127.78575768	2597.177	EVT	9.100	2.160	is this the same one?
2002/09/06	13:41:42	47.70990676	-127.78578917	2597.014	EVT	13.910	3.510	still looking for the third probe
2002/09/06	13:42:04	47.70990388	-127.78580245	2597.210	EVT	13.990	3.870	another shot of probe tip
2002/09/06	13:42:44	47.70989674	-127.78580314	2597.007	EVT	36.810	4.770	looks like other probe is buried right here
2002/09/06	13:42:57	47.70990125	-127.78579323	2597.068	EVT	36.950	4.360	is this the other probe
2002/09/06	13:43:19	47.70989608	-127.78579090	2597.021	EVT	37.480	4.370	it's a rock
2002/09/06	13:44:26	47.70987354	-127.78578602	2597.251	EVT	37.490	4.230	Dave says we should put a large marker here
2002/09/06	13:44:43	47.70986343	-127.78579023	2596.838	EVT	37.450	5.120	nex ttime though on the marker - we do not have any
right now								
2002/09/06	13:44:53	47.70986249	-127.78578678	2597.028	EVT	37.830	4.660	the bent probe again
2002/09/06	13:48:44	47.70990181	-127.78584760	2597.488	EVT	37.300	5.490	still looking at this area - looking for other probe
2002/09/06	13:49:37	47.70990142	-127.78584706	2599.091	EVT	37.410	3.880	looking at the big hole to figure out if it is from the
weight								
2002/09/06	13:51:44	47.70993064	-127.78581395	2597.413	EVT	37.600	3.730	blank-text
2002/09/06	13:51:52	47.70993024	-127.78581452	2597.623	EVT	37.430	3.690	some biology next to the marker
2002/09/06	13:55:09	47.70991367	-127.78576140	2596.940	EVT	37.330	2.840	still looking for other probe East of here
2002/09/06	13:55:51	47.70990422	-127.78574328	2596.987	EVT	37.320	2.570	probe three - the first one we've seen here - is East
Southeast of marker 17								
2002/09/06	13:56:09	47.70989397	-127.78573643	2596.872	EVT	38.410	2.610	other probe should be close by
2002/09/06	13:56:24	47.70989011	-127.78573855	2597.055	EVT	37.650	2.450	here we go
2002/09/06	13:56:42	47.70988393	-127.78572604	2597.055	EVT	37.430	2.290	broken leaf next to it from release
2002/09/06	13:56:52	47.70988010	-127.78571849	2596.906	EVT	37.460	2.090	crab heading toward probe?
2002/09/06	13:57:00	47.70988022	-127.78571884	2596.974	EVT	37.490	2.010	taking some grabs
2002/09/06	13:57:03	47.70988044	-127.78571942	2596.960	EVT	37.290	1.970	blank-text
2002/09/06	13:57:05	47.70988059	-127.78571962	2597.082	EVT	37.580	2.020	blank-text
2002/09/06	13:57:09	47.70988087	-127.78571995	2596.947	EVT	37.560	1.960	blank-text
2002/09/06	13:57:14	47.70988082	-127.78571990	2596.960	EVT	37.610	2.140	blank-text
2002/09/06	13:57:19	47.70988063	-127.78571971	2596.717	EVT	37.500	2.230	the nozzle
2002/09/06	13:57:23	47.70988064	-127.78571983	2596.791	EVT	37.410	2.030	blank-text
2002/09/06	13:57:25	47.70988054	-127.78571972	2596.933	EVT	37.640	1.920	blank-text
2002/09/06	13:57:30	47.70988078	-127.78571963	2597.116	EVT	37.450	1.810	blank-text
2002/09/06	13:57:32	47.70988089	-127.78571978	2597.055	EVT	37.340	1.830	blank-text
2002/09/06	13:57:46	47.70988066	-127.78571986	2596.906	EVT	37.640	2.090	blank-text
2002/09/06	13:57:56	47.70988076	-127.78571974	2596.838	EVT	37.460	2.040	1.79 on ctd TEMP
2002/09/06	13:58:11	47.70988081	-127.78571984	2596.872	EVT	37.500	2.130	TEMP 1.8

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	13:58:24	47.70988080	-127.78571980	2597.041	EVT	37.480	2.010	this probe is a 3 meter
2002/09/06	13:58:32	47.70988008	-127.78571496	2596.947	EVT	37.440	1.950	TEMP 1.826 high on CTD
2002/09/06	13:58:59	47.70988654	-127.78569716	2596.189	EVT	38.760	2.010	blank-text
2002/09/06	13:59:10	47.70988721	-127.78569547	2596.649	EVT	41.150	1.570	close up on probe tip
2002/09/06	13:59:24	47.70988677	-127.78569569	2596.514	EVT	40.710	1.440	blank-text
2002/09/06	13:59:41	47.70988659	-127.78569403	2596.554	EVT	40.780	1.440	blank-text
2002/09/06	13:59:48	47.70988650	-127.78569360	2596.669	EVT	40.820	1.450	theres flow
2002/09/06	13:59:48	47.70988650	-127.78569360	2596.669	EVT	40.820	1.450	theres flow
2002/09/06	13:59:59	47.70988675	-127.78568933	2596.588	EVT	40.780	1.450	doesn't appear to be as much as the first but it is flowing
2002/09/06	14:00:07	47.70988679	-127.78568655	2596.635	EVT	40.800	1.450	TEMP 1.8 here on ctd
2002/09/06	14:00:14	47.70988718	-127.78567915	2596.703	EVT	40.790	1.450	blank-text
2002/09/06	14:00:41	47.70988742	-127.78567171	2596.541	EVT	40.800	1.450	probe 3 is target 13
2002/09/06	14:00:47	47.70988740	-127.78567076	2596.615	EVT	40.780	1.450	probe 5 is target 12
2002/09/06	14:00:54	47.70988743	-127.78567034	2596.615	EVT	40.790	1.460	probe 4 is target 14
2002/09/06	14:01:19	47.70988791	-127.78566420	2596.635	EVT	40.810	1.450	these aren't big NAV targets - dvl nav for Jason
2002/09/06	14:01:43	47.70988835	-127.78565964	2596.656	EVT	40.790	1.450	two probes - two flows says Paul the poet
2002/09/06	14:03:15	47.70988956	-127.78563617	2596.663	EVT	40.800	1.440	going to do an ICL and then flow meter measurement
2002/09/06	14:03:42	47.70988942	-127.78563674	2596.480	EVT	40.710	1.570	getting ICL
2002/09/06	14:04:59	47.70988970	-127.78562867	2596.656	EVT	40.630	1.490	pin for ICL out
2002/09/06	14:06:01	47.70989033	-127.78561992	2596.676	EVT	40.700	1.500	grabbing ICL
2002/09/06	14:06:59	47.70989039	-127.78561835	2596.663	EVT	40.780	1.520	ICL in manip
2002/09/06	14:07:33	47.70989004	-127.78562243	2596.615	EVT	40.780	1.520	blank-text
2002/09/06	14:07:38	47.70989008	-127.78562299	2596.669	EVT	40.730	1.520	ominous shadows
2002/09/06	14:07:44	47.70989014	-127.78562284	2596.635	EVT	40.750	1.490	fish checking things out
2002/09/06	14:08:55	47.70989059	-127.78561295	2596.581	EVT	40.800	1.520	water TEMP 2.1 on ICL
2002/09/06	14:09:01	47.70989061	-127.78561126	2596.690	EVT	40.820	1.520	that is background water temp
2002/09/06	14:09:10	47.70989056	-127.78561037	2596.608	EVT	40.780	1.500	TEMP 1.802 on CTD
2002/09/06	14:09:31	47.70989063	-127.78560959	2596.588	EVT	40.740	1.510	inserting probe
2002/09/06	14:09:52	47.70989056	-127.78560960	2596.622	EVT	40.740	1.510	more probing
2002/09/06	14:10:39	47.70989056	-127.78560741	2596.588	EVT	40.740	1.500	having a bit of manip problems
2002/09/06	14:10:39	47.70989056	-127.78560741	2596.588	EVT	40.740	1.500	having a bit of manip problems
2002/09/06	14:10:54	47.70989056	-127.78560647	2596.663	EVT	40.760	1.500	adjusting manip settings to try again
2002/09/06	14:12:44	47.70989107	-127.78558835	2596.595	EVT	40.750	1.460	problem seems to be in elbow joint on manip
2002/09/06	14:14:29	47.70989188	-127.78555890	2596.595	EVT	40.880	1.480	Temp here at probe opening 6.1
2002/09/06	14:14:33	47.70989187	-127.78555887	2596.541	EVT	40.900	1.490	Temp 7
2002/09/06	14:14:47	47.70989187	-127.78555911	2596.649	EVT	40.890	1.510	Temp 7.5 still going up
2002/09/06	14:14:57	47.70989190	-127.78555879	2596.575	EVT	40.890	1.490	Temp 8.1
2002/09/06	14:15:28	47.70989187	-127.78555852	2596.737	EVT	40.880	1.480	TEMP 8.4 - think we got a vent says Paul
2002/09/06	14:15:44	47.70989193	-127.78555818	2596.649	EVT	40.890	1.480	TEMP 8.6 can see flow around ICL
2002/09/06	14:16:06	47.70989187	-127.78555853	2596.683	EVT	40.920	1.480	TEMP 8.6 max

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	14:17:14	47.70989177	-127.78555375	2596.703	EVT	40.730	1.450	going to replace probe and try to reboot arm
2002/09/06	14:18:17	47.70989133	-127.78555308	2596.635	EVT	40.710	1.420	replacing probe
2002/09/06	14:22:08	47.70989245	-127.78553731	2596.635	EVT	40.760	1.590	getting Butterfield nozzle
2002/09/06	14:23:47	47.70989243	-127.78553146	2596.764	EVT	40.830	1.540	pulling out Butterfield sampler nozzle
2002/09/06	14:25:01	47.70989204	-127.78553296	2596.581	EVT	40.780	1.550	zooming in to place nozzle on nipple
2002/09/06	14:25:26	47.70989137	-127.78553536	2596.737	EVT	40.610	1.490	sampler nozzle on the probe
2002/09/06	14:25:41	47.70989111	-127.78553794	2596.757	EVT	40.490	1.530	more of nozzle on the probe
2002/09/06	14:25:47	47.70989098	-127.78553931	2596.784	EVT	40.600	1.540	Butterfield Temp 3.5
2002/09/06	14:26:08	47.70989123	-127.78554114	2596.629	EVT	40.230	1.560	Butterfield temp 6.0
2002/09/06	14:26:15	47.70989115	-127.78554251	2596.791	EVT	40.200	1.560	Butterfield temp still going up 7.0
2002/09/06	14:26:44	47.70989089	-127.78554608	2596.656	EVT	40.270	1.560	Butterfield temp 8.0 turning flush pump off to see
	what happens							
2002/09/06	14:26:54	47.70989084	-127.78554817	2596.615	EVT	40.290	1.550	Butterfield sampler temp still going up
2002/09/06	14:27:14	47.70989101	-127.78554959	2596.581	EVT	40.380	1.560	Butterfield temp 9.0
2002/09/06	14:27:50	47.70989117	-127.78555413	2596.663	EVT	40.160	1.560	T2 sensor on Butterfield sampler still at 1.6 - possible
	not working correctly							
2002/09/06	14:27:57	47.70989110	-127.78555466	2596.683	EVT	40.140	1.570	Butterfield sampler flush pump back on
2002/09/06	14:28:09	47.70989114	-127.78555428	2596.568	EVT	40.120	1.570	Butterfield temp going down - turning flush pump
	back off							
2002/09/06	14:28:17	47.70989101	-127.78555446	2596.744	EVT	40.190	1.570	T2 did change when pump was turned on
2002/09/06	14:28:31	47.70989088	-127.78555664	2596.744	EVT	40.220	1.570	maybe not getting a tight seal
2002/09/06	14:28:46	47.70989068	-127.78555864	2596.568	EVT	40.150	1.570	T2 is working - no flow back there before
2002/09/06	14:28:52	47.70989029	-127.78555889	2596.683	EVT	40.120	1.570	Butterfield temp 10.0 on T1
2002/09/06	14:29:03	47.70989019	-127.78556006	2596.757	EVT	40.180	1.570	Butterfield temp 10.5
2002/09/06	14:29:20	47.70989017	-127.78556023	2596.798	EVT	40.090	1.570	Butterfield temp 11.0
2002/09/06	14:32:25	47.70988926	-127.78556937	2596.690	EVT	40.150	1.560	Sampler started pumping again
2002/09/06	14:33:05	47.70988887	-127.78557322	2596.683	EVT	40.200	1.550	Pump off
2002/09/06	14:33:13	47.70988875	-127.78557449	2596.805	EVT	40.160	1.570	Temperature at
2002/09/06	14:33:22	47.70988854	-127.78557514	2596.669	EVT	40.150	1.570	Temperature at T2 up to 5.0
2002/09/06	14:33:34	47.70988861	-127.78557566	2596.690	EVT	40.100	1.580	T1 up to 11.5
2002/09/06	14:33:37	47.70988860	-127.78557591	2596.710	EVT	40.090	1.570	Pump on
2002/09/06	14:33:51	47.70988842	-127.78557669	2596.778	EVT	40.220	1.550	Pump off
2002/09/06	14:35:31	47.70988761	-127.78558533	2596.730	EVT	40.210	1.550	Butterfield temp maximum is 11.8
2002/09/06	14:36:05	47.70988723	-127.78558703	2596.737	EVT	40.240	1.560	vented water has a higher pH than the surrounding
	sea water							
2002/09/06	14:39:45	47.70988647	-127.78559438	2596.635	EVT	39.750	1.550	Starting Piston sampler (Piston Number 5)
2002/09/06	14:40:11	47.70988642	-127.78559570	2596.663	EVT	39.970	1.570	Piston sample started at 14:39
2002/09/06	14:40:54	47.70988618	-127.78559843	2596.642	EVT	39.950	1.570	Distilled water and vent fluid team up to produce
	extensive shimmering water							
2002/09/06	14:42:00	47.70988612	-127.78560350	2596.690	EVT	39.740	1.530	Butterfield temp 10.9
2002/09/06	14:47:12	47.70988640	-127.78560455	2596.663	EVT	39.550	1.580	piston 5 stopped, 700 mL

Event log: LEXEN 2002

Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	14:47:39	47.70988602	-127.78560484	2596.886	EVT	39.450	1.530	max temp for piston 5 sample is 10.6
2002/09/06	14:52:27	47.70988581	-127.78560331	2596.865	EVT	39.600	1.590	Butterfield sample filter 3
2002/09/06	14:53:03	47.70988548	-127.78560475	2596.913	EVT	39.750	1.570	Sterivex 3 filter started at 1452
2002/09/06	14:53:03	47.70988548	-127.78560475	2596.913	EVT	39.750	1.570	Sterivex 3 filter started at 1452
2002/09/06	15:02:44	47.70988209	-127.78564472	2596.967	EVT	39.870	1.570	stopped sample at 1L
2002/09/06	15:02:59	47.70988198	-127.78564610	2596.960	EVT	39.880	1.570	tmax=10.9 Tave=10.4
2002/09/06	15:04:24	47.70988127	-127.78565208	2596.872	EVT	40.020	1.570	starting filter 13 (FISH)
2002/09/06	15:06:44	47.70988003	-127.78566272	2596.865	EVT	40.010	1.570	blank-text
2002/09/06	15:08:52	47.70987831	-127.78567042	2596.960	EVT	39.880	1.570	blank-text
2002/09/06	15:10:25	47.70987767	-127.78567868	2596.967	EVT	39.780	1.560	hole in casing?
2002/09/06	15:14:40	47.70987493	-127.78571552	2597.014	EVT	39.710	1.570	close up of crinoid
2002/09/06	15:15:10	47.70987473	-127.78571915	2596.980	EVT	39.800	1.570	another crinoid
2002/09/06	15:16:07	47.70987419	-127.78572637	2596.892	EVT	39.710	1.560	stopped at 1515 1 liter average temp 10.1
2002/09/06	15:16:09	47.70987417	-127.78572662	2597.021	EVT	39.730	1.570	blank-text
2002/09/06	15:16:19	47.70987427	-127.78572774	2596.845	EVT	39.720	1.560	starting bag 8
2002/09/06	15:18:20	47.70987323	-127.78574061	2597.095	EVT	39.730	1.560	same crinoids
2002/09/06	15:19:11	47.70987285	-127.78574793	2597.035	EVT	39.820	1.570	octopus
2002/09/06	15:21:14	47.70987109	-127.78576205	2596.906	EVT	39.930	1.570	exhaust from sampler
2002/09/06	15:23:14	47.70986981	-127.78577783	2597.082	EVT	40.060	1.550	Tmax=10.1 Tave=10.0
2002/09/06	15:23:39	47.70986923	-127.78578219	2597.007	EVT	40.010	1.550	sample stopped at 15, 640 vol max 10.12 average
2002/09/06	15:27:33	47.70986501	-127.78582905	2597.068	EVT	39.990	1.560	starting bag 14
2002/09/06	15:31:48	47.70986209	-127.78585914	2597.150	EVT	39.840	1.560	collar had already fallen off this probe
2002/09/06	15:32:10	47.70986148	-127.78586035	2597.068	EVT	39.800	1.570	(that's why earlier attempt to take it off failed)
2002/09/06	15:33:59	47.70986002	-127.78586861	2597.244	EVT	39.890	1.560	sample stopped
2002/09/06	15:34:29	47.70985933	-127.78587059	2597.136	EVT	39.890	1.570	Tmax=10.2 Tavg=10.0 626mL
2002/09/06	15:35:10	47.70985855	-127.78587370	2597.068	EVT	39.890	1.570	bag 17 started
2002/09/06	15:35:48	47.70985786	-127.78587983	2597.102	EVT	39.990	1.560	octopus
2002/09/06	15:41:43	47.70985447	-127.78594828	2597.224	EVT	40.100	1.550	stopped 626mL Tmax=10.1 Tavg=10.0
2002/09/06	15:42:00	47.70985442	-127.78594875	2597.204	EVT	40.020	1.540	bag 18 started
2002/09/06	15:43:00	47.70985459	-127.78595072	2597.271	EVT	40.120	1.530	correction bag 18 started now
2002/09/06	15:45:24	47.70985505	-127.78595012	2597.237	EVT	40.110	1.550	we are at probe 4
2002/09/06	15:47:02	47.70985515	-127.78594489	2597.271	EVT	40.050	1.550	we are at dvl target 14
2002/09/06	15:47:23	47.70985515	-127.78594478	2597.258	EVT	40.010	1.550	dvl12 is probe 5 (bent one)
2002/09/06	15:47:35	47.70985503	-127.78594721	2597.190	EVT	40.090	1.550	probes 4 and 5 are 3m
2002/09/06	15:49:39	47.70989293	-127.78567598	2597.271	EVT	40.060	1.550	probe 3 is 1.5m - dvl13 (it's venting)
2002/09/06	15:50:00	47.70989312	-127.78567699	2597.217	EVT	40.040	1.530	sample stopped 634mL Tmax=9.8 Tavg=9.7
2002/09/06	15:52:03	47.70989248	-127.78568780	2597.332	EVT	40.050	1.550	start filter 15
2002/09/06	15:59:30	47.70988940	-127.78571508	2597.542	EVT	40.080	1.540	blank-text
2002/09/06	15:59:33	47.70988933	-127.78571531	2597.400	EVT	40.040	1.530	blank-text
2002/09/06	16:01:01	47.70988884	-127.78571450	2597.379	EVT	40.040	1.540	stopped sample 1002mL Tavg=9.7 Tmax=9.8
2002/09/06	16:01:44	47.70988900	-127.78571144	2597.393	EVT	40.150	1.550	blank-text

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	16:03:41	47.70988888	-127.78571188	2597.535	EVT	40.110	1.540	blank-text
2002/09/06	16:04:08	47.70988875	-127.78571187	2597.400	EVT	40.110	1.540	blank-text
2002/09/06	16:05:22	47.70988854	-127.78571372	2597.501	EVT	40.140	1.540	start piston 4
2002/09/06	16:12:31	47.70988210	-127.78578531	2597.440	EVT	40.150	1.540	stopped sample
2002/09/06	16:13:00	47.70988173	-127.78578921	2597.589	EVT	40.130	1.540	705mL Tmax=10.0 Tavg=9.9
2002/09/06	16:13:16	47.70988157	-127.78578939	2597.596	EVT	40.240	1.540	doing something with ph sensor now
2002/09/06	16:16:22	47.70988014	-127.78578206	2597.515	EVT	40.300	1.540	stable pH=7.373 (probably not accurate reading, only relative)
2002/09/06	16:24:32	47.70987839	-127.78578768	2597.535	EVT	41.090	1.600	finished sampling now
2002/09/06	16:26:59	47.70987859	-127.78578646	2597.650	EVT	40.700	1.610	putting flow meter over probe
2002/09/06	16:28:04	47.70987843	-127.78579003	2597.670	EVT	40.370	1.650	visual of flow meter
2002/09/06	16:29:02	47.70987811	-127.78579243	2597.826	EVT	40.480	1.630	flow meter
2002/09/06	16:29:39	47.70987786	-127.78579366	2597.745	EVT	40.510	1.630	looks like the reading just above zero
2002/09/06	16:31:30	47.70987773	-127.78579524	2597.657	EVT	40.610	1.690	resding looks like 1.5 - 2.0
2002/09/06	16:31:35	47.70987774	-127.78579536	2597.724	EVT	40.830	1.720	maybe 1.5-2 gradations above 0
2002/09/06	16:32:02	47.70987792	-127.78579587	2597.650	EVT	40.730	1.610	(0.1-0.2 gallons per minute)
2002/09/06	16:32:18	47.70987790	-127.78579606	2597.738	EVT	40.690	1.600	visual of meter at 0
2002/09/06	16:32:25	47.70987784	-127.78579621	2597.819	EVT	40.700	1.600	blank-text
2002/09/06	16:32:53	47.70987780	-127.78579674	2597.894	EVT	40.600	1.610	flow meter reading is gpm
2002/09/06	16:33:19	47.70987758	-127.78579731	2597.718	EVT	40.710	1.600	blank-text
2002/09/06	16:34:47	47.70987736	-127.78579806	2597.785	EVT	40.550	1.660	not accurate reading (party b/c probe not vertical)
2002/09/06	16:36:41	47.70987644	-127.78580233	2597.826	EVT	40.880	1.610	we can still see flow from probe
2002/09/06	16:39:27	47.70987533	-127.78580360	2597.826	EVT	40.660	1.710	inserting UW temp probe
2002/09/06	16:39:44	47.70987524	-127.78580395	2597.718	EVT	40.650	1.700	blank-text
2002/09/06	16:39:48	47.70987529	-127.78580394	2597.704	EVT	40.620	1.690	attached
2002/09/06	16:40:01	47.70987528	-127.78580397	2597.785	EVT	40.310	1.650	holding probe in hole
2002/09/06	16:45:08	47.70987522	-127.78579794	2597.846	EVT	40.390	1.690	17.172 fi
2002/09/06	16:45:26	47.70987512	-127.78579700	2597.866	EVT	40.360	1.680	7.172 background pH
2002/09/06	16:49:51	47.70987473	-127.78578646	2597.921	EVT	40.770	1.720	pulling out probe now
2002/09/06	16:51:51	47.70987388	-127.78578797	2597.833	EVT	40.690	1.690	sticking in ICL probe
2002/09/06	16:52:01	47.70987388	-127.78578777	2597.981	EVT	40.720	1.670	temp probe
2002/09/06	16:52:55	47.70989314	-127.78567108	2597.833	EVT	40.960	1.700	ICL background temp=2.1
2002/09/06	16:53:14	47.70989318	-127.78567207	2597.846	EVT	40.680	1.700	now inserting in vent hole
2002/09/06	16:53:18	47.70989315	-127.78567220	2598.002	EVT	40.820	1.720	2.1 acl
2002/09/06	16:53:21	47.70989314	-127.78567226	2597.995	EVT	40.790	1.730	blank-text
2002/09/06	16:53:36	47.70989326	-127.78567279	2597.826	EVT	40.650	1.720	blank-text
2002/09/06	16:53:43	47.70989330	-127.78567312	2597.954	EVT	40.660	1.710	temp=7.5 and rising
2002/09/06	16:53:56	47.70989334	-127.78567296	2597.907	EVT	40.670	1.710	10.2
2002/09/06	16:54:00	47.70989336	-127.78567286	2597.907	EVT	40.640	1.710	temp=10.2
2002/09/06	16:54:20	47.70989340	-127.78567308	2597.894	EVT	40.650	1.710	temp=10.6
2002/09/06	16:54:23	47.70989341	-127.78567304	2597.887	EVT	40.670	1.710	temp 10.6

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	16:54:42	47.70989344	-127.78567305	2597.981	EVT	40.640	1.710	temp=10.9
2002/09/06	16:54:51	47.70989350	-127.78567280	2597.934	EVT	40.630	1.710	temp 10.9
2002/09/06	16:55:23	47.70989362	-127.78567309	2597.900	EVT	40.610	1.710	temp=11.1
2002/09/06	16:57:34	47.70989333	-127.78568132	2597.961	EVT	40.600	1.710	temp holding at 11.4
2002/09/06	16:58:15	47.70989338	-127.78568345	2598.056	EVT	40.590	1.710	max temp=11.6
2002/09/06	16:58:25	47.70989336	-127.78568428	2598.029	EVT	40.600	1.710	temp hi was 11.6
2002/09/06	16:58:50	47.70989313	-127.78567097	2598.022	EVT	40.660	1.700	stopped temp probing, will move to other probe next
2002/09/06	17:01:14	47.70989377	-127.78567195	2598.252	EVT	40.900	1.620	series of frame grabs of region around probe insertion
2002/09/06	17:01:34	47.70989396	-127.78567216	2598.157	EVT	40.930	1.610	moving from site
2002/09/06	17:02:02	47.70989382	-127.78567193	2598.178	EVT	40.920	1.610	blank-text
2002/09/06	17:02:24	47.70989384	-127.78567208	2598.157	EVT	41.080	1.640	looking at core depression
2002/09/06	17:02:29	47.70989383	-127.78567229	2598.083	EVT	41.000	1.650	core weight depression
2002/09/06	17:04:10	47.70989361	-127.78567116	2598.225	EVT	41.100	1.640	water moving up
2002/09/06	17:04:22	47.70989350	-127.78567116	2598.137	EVT	41.070	1.640	acl site
2002/09/06	17:05:14	47.70989314	-127.78567031	2598.056	EVT	40.720	1.590	Putting ICL in the crater created by the core weight; looks like shimmery water
2002/09/06	17:06:34	47.70989310	-127.78566949	2598.096	EVT	40.720	1.650	ICL site
2002/09/06	17:07:17	47.70989240	-127.78566907	2598.191	EVT	40.880	1.690	taking temp right along surface
2002/09/06	17:07:38	47.70989244	-127.78566935	2598.076	EVT	40.810	1.680	temp taken above mud on surface
2002/09/06	17:07:44	47.70989241	-127.78566930	2598.130	EVT	40.730	1.680	Close up on temp probe above mud
2002/09/06	17:08:19	47.70989218	-127.78566923	2598.198	EVT	40.830	1.680	temp = 2.1
2002/09/06	17:08:21	47.70989211	-127.78566931	2598.103	EVT	40.770	1.680	temp=2.2
2002/09/06	17:08:48	47.70989177	-127.78567068	2598.157	EVT	40.880	1.690	new temp site- not warm
2002/09/06	17:08:53	47.70989168	-127.78567082	2598.103	EVT	40.780	1.700	moving probe around to try and get higher temps
2002/09/06	17:09:16	47.70989154	-127.78567177	2598.157	EVT	40.770	1.680	still 2.1\
2002/09/06	17:09:18	47.70989153	-127.78567176	2598.171	EVT	40.770	1.670	new site
2002/09/06	17:10:01	47.70989084	-127.78567381	2598.279	EVT	40.600	1.720	temp=2.1
2002/09/06	17:10:32	47.70989073	-127.78567309	2598.245	EVT	40.790	1.670	Done with that. Putting temp probe away
2002/09/06	17:12:21	47.70988709	-127.78566919	2597.447	EVT	19.090	1.930	Going to look at the back side of the stop plate
2002/09/06	17:12:32	47.70988580	-127.78566071	2597.494	EVT	351.380	1.690	stop plate for probe #4
2002/09/06	17:12:38	47.70988648	-127.78564951	2597.515	EVT	340.960	1.430	Looking at back of stop plate; probe 4
2002/09/06	17:12:51	47.70988830	-127.78563425	2597.582	EVT	306.770	1.180	Coming around back side;
2002/09/06	17:13:02	47.70989105	-127.78563289	2597.961	EVT	292.550	30.000	bent during release?
2002/09/06	17:13:05	47.70989093	-127.78563271	2597.887	EVT	292.750	30.000	moving to back side of probe#4 stop plate
2002/09/06	17:13:16	47.70988980	-127.78563155	2597.846	EVT	293.740	0.810	we are round around back
2002/09/06	17:13:25	47.70989027	-127.78563085	2597.954	EVT	293.790	0.830	looking at back
2002/09/06	17:13:38	47.70988970	-127.78563109	2597.887	EVT	293.890	30.000	bent at top?
2002/09/06	17:13:52	47.70988907	-127.78563098	2597.914	EVT	293.950	30.000	stop plate bent
2002/09/06	17:14:52	47.70988889	-127.78563367	2597.914	EVT	293.990	30.000	Now going to other probe (#3) target 13
2002/09/06	17:15:21	47.70988935	-127.78563497	2597.887	EVT	294.080	30.000	Stuck in ground about 1 m or less from fault scarp
2002/09/06	17:15:52	47.70988360	-127.78564198	2597.535	EVT	297.250	1.060	blank-text

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	17:16:01	47.70987818	-127.78564177	2597.528	EVT	311.450	1.430	Moving away
2002/09/06	17:16:03	47.70987490	-127.78564320	2597.278	EVT	320.860	1.730	blank-text
2002/09/06	17:16:06	47.70987227	-127.78564746	2597.210	EVT	323.050	1.840	blank-text
2002/09/06	17:16:11	47.70986700	-127.78565508	2597.204	EVT	321.400	2.000	blank-text
2002/09/06	17:16:23	47.70987015	-127.78565778	2597.116	EVT	322.170	2.070	blank-text
2002/09/06	17:16:34	47.70988081	-127.78566769	2597.339	EVT	289.640	1.410	looking for probe #3
2002/09/06	17:17:18	47.70989026	-127.78573529	2597.028	EVT	16.790	4.530	blank-text
2002/09/06	17:17:40	47.70991780	-127.78574995	2598.495	EVT	45.410	3.630	probe #3
2002/09/06	17:18:03	47.70992788	-127.78574356	2599.341	EVT	66.820	2.540	probe #3 depression
2002/09/06	17:18:24	47.70992915	-127.78574091	2600.132	EVT	82.320	1.380	probe#3
2002/09/06	17:18:31	47.70992944	-127.78574076	2600.552	EVT	82.340	1.020	blank-text
2002/09/06	17:19:08	47.70992914	-127.78574126	2600.112	EVT	81.860	1.500	probe#3
2002/09/06	17:19:10	47.70992916	-127.78574126	2600.186	EVT	81.830	1.510	blank-text
2002/09/06	17:19:19	47.70992907	-127.78574142	2600.112	EVT	81.800	1.560	visual of flow from probe 3
2002/09/06	17:20:53	47.70992943	-127.78574183	2600.031	EVT	81.630	1.660	ICL site
2002/09/06	17:21:57	47.70992949	-127.78574207	2599.936	EVT	81.810	1.670	ICL temp =
2002/09/06	17:22:43	47.70992918	-127.78574266	2600.139	EVT	81.690	1.610	background temp from ICL=2.1
2002/09/06	17:22:54	47.70992911	-127.78574278	2600.119	EVT	81.760	1.660	ICL water temp 2.1
2002/09/06	17:22:55	47.70992911	-127.78574278	2600.119	EVT	81.760	1.660	inserting in probe hole
2002/09/06	17:23:23	47.70992864	-127.78574312	2600.146	EVT	81.690	1.640	temp=13
2002/09/06	17:23:34	47.70992835	-127.78574345	2600.213	EVT	81.710	1.650	=14
2002/09/06	17:23:39	47.70992820	-127.78574355	2600.186	EVT	81.530	1.630	=15
2002/09/06	17:24:04	47.70992829	-127.78574388	2600.132	EVT	81.750	1.660	probe in rock moved a little
2002/09/06	17:24:11	47.70992834	-127.78574374	2600.227	EVT	81.740	1.640	temp=16.5
2002/09/06	17:24:36	47.70992838	-127.78574380	2600.200	EVT	81.660	1.660	ICL temp max = 16.7
2002/09/06	17:24:37	47.70992836	-127.78574375	2600.207	EVT	81.700	1.660	=16.7
2002/09/06	17:27:38	47.70992707	-127.78574598	2600.024	EVT	81.690	1.570	ICL temp down to 15
2002/09/06	17:27:42	47.70992696	-127.78574598	2600.139	EVT	81.670	1.560	temp down to 15 now
2002/09/06	17:28:13	47.70992662	-127.78574630	2600.220	EVT	81.690	1.640	temp max=16.7
2002/09/06	17:28:40	47.70992637	-127.78574676	2600.200	EVT	81.660	1.570	pulling out ICL probe now
2002/09/06	17:29:32	47.70992592	-127.78574772	2600.254	EVT	81.620	1.670	blank-text
2002/09/06	17:30:00	47.70992575	-127.78574782	2600.254	EVT	81.630	1.660	venting sediments now
2002/09/06	17:30:09	47.70992579	-127.78574803	2600.247	EVT	81.680	1.660	probe seems to move easily
2002/09/06	17:30:19	47.70992581	-127.78574806	2600.213	EVT	81.640	1.660	broken or inserted in loose rock?
2002/09/06	17:31:10	47.70992532	-127.78574880	2600.159	EVT	82.100	1.570	blank-text
2002/09/06	17:31:12	47.70992535	-127.78574891	2600.234	EVT	82.460	1.580	trying to nudge the probe with the manip
2002/09/06	17:31:24	47.70992514	-127.78574890	2600.180	EVT	81.600	1.700	probe is loose
2002/09/06	17:31:58	47.70992499	-127.78574925	2600.295	EVT	81.750	1.560	probe and rock nearby moves easily
2002/09/06	17:32:20	47.70992507	-127.78574886	2600.322	EVT	81.720	1.590	putting in uw
2002/09/06	17:33:17	47.70992539	-127.78574817	2600.281	EVT	81.720	1.660	inserting UW temp probe in hole
2002/09/06	17:33:42	47.70992591	-127.78574694	2600.274	EVT	81.680	1.650	blank-text

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	17:34:00	47.70992601	-127.78574694	2600.315	EVT	81.700	1.670	blank-text
2002/09/06	17:34:01	47.70992601	-127.78574700	2600.315	EVT	81.700	1.680	blank-text
2002/09/06	17:34:31	47.70992577	-127.78574779	2600.349	EVT	81.660	1.680	waiting till sediment settles for temp
2002/09/06	17:36:25	47.70992450	-127.78574906	2600.234	EVT	82.040	1.630	uw temp in
2002/09/06	17:36:25	47.70992445	-127.78574899	2600.295	EVT	81.930	1.610	UW probe is in all the way now
2002/09/06	17:36:37	47.70992459	-127.78574896	2600.295	EVT	81.860	1.650	uw temp =
2002/09/06	17:40:39	47.70992613	-127.78574595	2600.355	EVT	81.740	1.640	uw temp =
2002/09/06	17:41:28	47.70992616	-127.78574579	2600.274	EVT	81.720	1.640	blank-text
2002/09/06	17:44:20	47.70992633	-127.78574479	2600.383	EVT	81.710	1.670	uw probe 10 minutes - coming out
2002/09/06	17:44:34	47.70992640	-127.78574489	2600.261	EVT	81.780	1.630	taking out UW probe
2002/09/06	17:45:03	47.70992604	-127.78574507	2600.362	EVT	81.750	1.640	blank-text
2002/09/06	17:45:48	47.70992646	-127.78574448	2600.437	EVT	81.750	1.580	blank-text
2002/09/06	17:48:20	47.70992741	-127.78574434	2600.457	EVT	81.700	1.600	inserting visual flow meter
2002/09/06	17:48:22	47.70992747	-127.78574434	2600.450	EVT	81.680	1.600	Flow meter
2002/09/06	17:48:50	47.70992778	-127.78574446	2600.389	EVT	81.690	1.610	blank-text
2002/09/06	17:48:52	47.70992776	-127.78574440	2600.396	EVT	81.700	1.610	flow meter
2002/09/06	17:49:19	47.70992782	-127.78574473	2600.437	EVT	81.680	1.630	blank-text
2002/09/06	17:50:11	47.70992814	-127.78574445	2600.437	EVT	81.930	1.600	blank-text
2002/09/06	17:50:21	47.70992808	-127.78574428	2600.545	EVT	81.970	1.560	blank-text
2002/09/06	17:50:41	47.70992818	-127.78574410	2600.383	EVT	81.790	1.660	meter is at 0 - not on hole properly?
2002/09/06	17:50:56	47.70992837	-127.78574388	2600.497	EVT	81.540	1.630	flow meter set
2002/09/06	17:51:23	47.70992813	-127.78574470	2600.504	EVT	81.830	1.630	meter moves up when it is pushed down, and then settles back to zero
2002/09/06	17:51:47	47.70992805	-127.78574519	2600.477	EVT	81.910	1.610	extremely low flow
2002/09/06	17:51:51	47.70992792	-127.78574523	2600.491	EVT	81.830	1.630	flow meter reading = extremely low flow
2002/09/06	17:53:06	47.70992844	-127.78574502	2600.464	EVT	81.730	1.690	flow meter taken off
2002/09/06	17:53:14	47.70992856	-127.78574519	2600.477	EVT	82.230	1.660	taking off flow meter
2002/09/06	17:53:30	47.70992852	-127.78574503	2600.538	EVT	81.880	1.570	flow meter was almost stuck - had to pull very hard
2002/09/06	17:53:54	47.70992859	-127.78574525	2600.518	EVT	81.770	1.570	going to deploy thermal blanket while sediment clears
2002/09/06	17:55:53	47.70992995	-127.78574327	2600.552	EVT	81.780	1.510	Deploying Thermal blanket site
2002/09/06	17:56:30	47.70993051	-127.78574241	2600.065	EVT	81.090	2.140	blank-text
2002/09/06	17:56:48	47.70992955	-127.78575682	2598.976	EVT	78.530	3.600	blank-text
2002/09/06	17:56:49	47.70992960	-127.78575658	2598.976	EVT	78.710	3.660	blank-text
2002/09/06	17:57:28	47.70993008	-127.78575503	2599.226	EVT	78.470	3.410	blank-text
2002/09/06	17:59:23	47.70993016	-127.78575520	2599.131	EVT	78.380	3.580	deploying thermal blanket
2002/09/06	18:00:13	47.70992973	-127.78575505	2599.206	EVT	78.460	3.380	blank-text
2002/09/06	18:00:15	47.70993015	-127.78575513	2599.185	EVT	78.220	3.330	thermal blanket deployment
2002/09/06	18:00:41	47.70993004	-127.78575512	2599.192	EVT	78.420	3.460	blank-text
2002/09/06	18:00:56	47.70992990	-127.78575480	2599.233	EVT	78.520	3.510	Paul
2002/09/06	18:01:47	47.70992992	-127.78575514	2599.104	EVT	78.470	3.600	blank-text

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	18:02:01	47.70993007	-127.78575481	2599.375	EVT	78.400	3.450	looking for spot to put down blanket
2002/09/06	18:02:17	47.70993010	-127.78575516	2599.199	EVT	78.440	3.410	Thermal blanket going down
2002/09/06	18:02:39	47.70992860	-127.78575483	2599.382	EVT	77.950	3.400	Stubby VEnting
2002/09/06	18:06:00	47.70991800	-127.78575077	2601.032	EVT	79.170	1.710	stubby venting with thermal blanket
2002/09/06	18:06:34	47.70991827	-127.78575094	2600.991	EVT	79.320	1.660	blank-text
2002/09/06	18:08:20	47.70991819	-127.78575077	2601.052	EVT	79.550	1.640	blank-text
2002/09/06	18:08:59	47.70991810	-127.78575117	2601.018	EVT	79.270	1.700	nice blanket
2002/09/06	18:09:49	47.70991793	-127.78574195	2600.795	EVT	78.880	1.540	
2002/09/06	18:10:15	47.70991793	-127.78574228	2600.755	EVT	78.840	1.600	
2002/09/06	18:11:09	47.70991792	-127.78574317	2600.802	EVT	78.850	1.580	
2002/09/06	18:11:47	47.70991780	-127.78574385	2600.802	EVT	78.810	1.620	
2002/09/06	18:12:10	47.70991787	-127.78574396	2600.829	EVT	79.450	1.500	blanket settling in..final spot?
2002/09/06	18:12:33	47.70991787	-127.78574407	2600.991	EVT	79.050	1.590	blanket sliding down slope
2002/09/06	18:12:57	47.70991775	-127.78574407	2600.829	EVT	79.000	1.590	Paul: "stay ! Stay!"
2002/09/06	18:22:35	47.70990766	-127.78574322	2599.368	EVT	59.350	3.400	blank-text
2002/09/06	18:26:56	47.70991421	-127.78570913	2598.610	EVT	17.470	2.190	octopus
2002/09/06	18:27:07	47.70991418	-127.78570823	2598.441	EVT	18.180	2.150	octopus and blanket and hole!
2002/09/06	18:27:32	47.70991712	-127.78570707	2598.624	EVT	18.180	2.060	blanket going down again, right next to bemused octopus
2002/09/06	18:28:05	47.70991801	-127.78570826	2598.509	EVT	17.880	2.060	double octopi
2002/09/06	18:29:48	47.70991717	-127.78575415	2598.326	EVT	27.450	4.170	still trying to find a flat place to put down blanket
2002/09/06	18:30:02	47.70992604	-127.78577223	2598.252	EVT	47.570	5.270	shorty w/octopi in background
2002/09/06	18:30:16	47.70994182	-127.78577380	2598.475	EVT	47.810	4.590	probe 3 looks clear again
2002/09/06	18:30:57	47.70996183	-127.78574746	2598.665	EVT	78.030	2.800	
2002/09/06	18:31:02	47.70996114	-127.78574860	2598.577	EVT	78.450	2.990	
2002/09/06	18:32:12	47.70996032	-127.78575049	2599.375	EVT	78.350	2.260	blanket deployed - not moving (yay!)
2002/09/06	18:32:13	47.70996027	-127.78575045	2599.375	EVT	78.530	2.250	blank-text
2002/09/06	18:32:45	47.70996032	-127.78575044	2599.152	EVT	78.180	2.410	making sure it's stable
2002/09/06	18:34:26	47.70996062	-127.78576904	2599.436	EVT	114.210	2.420	moving on to collect samples from hole
2002/09/06	18:37:48	47.70992728	-127.78574940	2600.470	EVT	64.040	1.870	
2002/09/06	18:37:52	47.70992706	-127.78574874	2600.619	EVT	57.860	1.800	
2002/09/06	18:38:08	47.70992963	-127.78575263	2600.633	EVT	59.500	1.760	Probe 3
2002/09/06	18:38:22	47.70993018	-127.78575159	2600.890	EVT	60.200	1.470	Probe 3 venting
2002/09/06	18:41:17	47.70993003	-127.78575102	2600.755	EVT	60.470	1.520	
2002/09/06	18:41:33	47.70992945	-127.78575107	2600.755	EVT	60.290	1.610	
2002/09/06	18:41:58	47.70992949	-127.78575136	2600.768	EVT	59.930	1.570	10 degrees
2002/09/06	18:42:05	47.70992953	-127.78575135	2600.917	EVT	60.050	1.520	12 degrees
2002/09/06	18:42:28	47.70992972	-127.78575132	2600.890	EVT	60.120	1.540	(Temp probe in Probe 3)
2002/09/06	18:42:33	47.70992973	-127.78575139	2600.775	EVT	60.080	1.540	13 deg
2002/09/06	18:42:55	47.70992929	-127.78575194	2600.836	EVT	60.090	1.600	13.5 deg
2002/09/06	18:43:39	47.70992927	-127.78575215	2600.930	EVT	60.050	1.540	Target TXT 13.2 deg

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	18:44:01	47.70992950	-127.78575222	2600.957	EVT	60.050	1.520	14 deg
2002/09/06	18:44:12	47.70992950	-127.78575220	2601.018	EVT	60.000	1.530	Flushing probe
2002/09/06	18:44:25	47.70992967	-127.78575233	2601.052	EVT	60.080	1.520	15 deg
2002/09/06	18:44:30	47.70992975	-127.78575231	2600.984	EVT	60.050	1.540	bioblanket
2002/09/06	18:44:39	47.70992979	-127.78575217	2600.957	EVT	60.020	1.540	temp still climbing
2002/09/06	18:44:52	47.70992996	-127.78575210	2600.930	EVT	60.060	1.530	flushg exit
2002/09/06	18:45:01	47.70993012	-127.78575193	2600.984	EVT	60.030	1.540	Some sediment... 16.5
2002/09/06	18:45:35	47.70993050	-127.78575134	2600.998	EVT	60.050	1.540	17,5
2002/09/06	18:45:52	47.70993061	-127.78575103	2600.863	EVT	60.030	1.540	probe 3- exit water increasing flow
2002/09/06	18:45:57	47.70993065	-127.78575092	2600.998	EVT	60.050	1.540	18 deg
2002/09/06	18:47:11	47.70993158	-127.78575059	2600.903	EVT	60.000	1.540	Stopped flush, temp dropping
2002/09/06	18:48:13	47.70993222	-127.78575026	2600.971	EVT	60.010	1.540	octopus..
2002/09/06	18:49:19	47.70993302	-127.78575090	2600.957	EVT	60.050	1.550	
2002/09/06	18:49:26	47.70993313	-127.78575108	2600.951	EVT	60.070	1.530	
2002/09/06	18:49:35	47.70993329	-127.78575124	2600.951	EVT	60.060	1.540	coring wt hole in bkg
2002/09/06	18:50:07	47.70993389	-127.78575162	2600.971	EVT	60.070	1.540	exit- pumping again
2002/09/06	18:50:14	47.70993404	-127.78575174	2601.066	EVT	60.040	1.540	16.5
2002/09/06	18:51:05	47.70993500	-127.78575210	2601.018	EVT	60.030	1.550	still pumping - 17.8
2002/09/06	18:51:43	47.70993589	-127.78575219	2601.059	EVT	60.040	1.550	18 deg
2002/09/06	18:51:49	47.70993595	-127.78575217	2600.890	EVT	60.030	1.550	18.1 - flushing
2002/09/06	18:53:17	47.70993730	-127.78575238	2601.025	EVT	60.050	1.560	sediment decreasing
2002/09/06	18:53:48	47.70993777	-127.78575219	2600.984	EVT	60.020	1.540	can see "dirty" water rising on rt
2002/09/06	18:54:55	47.70993859	-127.78575181	2601.025	EVT	60.050	1.540	18. 2 deg- clearing signifcantly
2002/09/06	18:56:47	47.70993962	-127.78575208	2601.079	EVT	60.040	1.550	still venting- still sediment
2002/09/06	18:57:10	47.70993997	-127.78575165	2601.045	EVT	60.040	1.550	18 deg
2002/09/06	19:01:39	47.70994068	-127.78575073	2601.133	EVT	60.020	1.550	flushing again- similar look - 17.8
2002/09/06	19:02:32	47.70994061	-127.78575083	2601.140	EVT	60.050	1.660	
2002/09/06	19:02:42	47.70994071	-127.78575080	2601.066	EVT	60.020	1.660	zoom in on seal...
2002/09/06	19:02:53	47.70994085	-127.78575080	2601.072	EVT	60.030	1.640	seal-
2002/09/06	19:03:05	47.70994088	-127.78575081	2600.917	EVT	60.030	1.660	seal- no leak obvious
2002/09/06	19:03:58	47.70994059	-127.78575097	2601.086	EVT	60.040	1.650	exhaust again-
2002/09/06	19:04:12	47.70994046	-127.78575099	2601.079	EVT	60.050	1.650	18.2 deg
2002/09/06	19:07:35	47.70994078	-127.78575099	2601.167	EVT	60.020	1.660	Ph sensor running. current values below seawater
2002/09/06	19:08:20	47.70994052	-127.78575083	2601.194	EVT	60.010	1.560	still venting- looks similar sed load
2002/09/06	19:08:52	47.70994065	-127.78575088	2600.984	EVT	60.040	1.620	Current ph readings seem about 0.5 units low (in error)-
2002/09/06	19:10:11	47.70994037	-127.78575027	2601.181	EVT	60.060	1.630	Ph reading 7.199 vs 7.38 for ambient seawater
2002/09/06	19:10:19	47.70994033	-127.78575034	2601.147	EVT	60.030	1.540	Both values are likely low
2002/09/06	19:12:58	47.70993945	-127.78575003	2601.045	EVT	60.080	1.600	
2002/09/06	19:14:59	47.70993885	-127.78575064	2601.120	EVT	60.060	1.610	starting sample number 24
2002/09/06	19:21:39	47.70993580	-127.78575247	2601.302	EVT	60.050	1.590	stopping sample number 24

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	19:21:57	47.70993560	-127.78575257	2601.079	EVT	60.070	1.550	max temperature 18.2
2002/09/06	19:22:04	47.70993559	-127.78575261	2601.093	EVT	60.080	1.550	average temperature 18.0
2002/09/06	19:22:12	47.70993549	-127.78575270	2601.045	EVT	60.090	1.540	volume 660 ml
2002/09/06	19:23:58	47.70993524	-127.78575307	2601.201	EVT	60.070	1.610	taking filtered piston sample number 23
2002/09/06	19:29:00	47.70993482	-127.78575439	2601.241	EVT	60.070	1.550	problem: piston may not be moving
2002/09/06	19:29:11	47.70993472	-127.78575434	2601.329	EVT	60.100	1.540	restarting sample 23
2002/09/06	19:33:59	47.70993458	-127.78575541	2601.160	EVT	60.080	1.560	stopped number 23
2002/09/06	19:34:32	47.70993491	-127.78575539	2601.336	EVT	60.140	1.650	max 18.2 avg 18.0 vol 700 ml
2002/09/06	19:36:52	47.70993570	-127.78575435	2601.154	EVT	60.130	1.610	starting filter number 6
2002/09/06	19:42:19	47.70993704	-127.78575372	2601.147	EVT	60.120	1.540	sample momentarily stopped
2002/09/06	19:42:44	47.70993721	-127.78575393	2601.194	EVT	60.100	1.530	restarting
2002/09/06	19:46:22	47.70993719	-127.78575452	2601.221	EVT	60.140	1.550	stopping sample
2002/09/06	19:46:57	47.70993716	-127.78575456	2601.289	EVT	60.140	1.610	max 18.3 avg 18.2 volume 1027 ml
2002/09/06	19:48:32	47.70993757	-127.78575439	2601.269	EVT	60.120	1.600	starting FISH filter number 21
2002/09/06	19:57:04	47.70993610	-127.78575863	2601.336	EVT	60.150	1.610	water coming out is almost totally clear
2002/09/06	19:57:27	47.70993596	-127.78575890	2601.417	EVT	60.160	1.540	zoomed in on the output hose
2002/09/06	20:01:32	47.70993493	-127.78576312	2601.377	EVT	60.150	1.540	stopping FISH filter number 21
2002/09/06	20:01:55	47.70993479	-127.78576323	2601.255	EVT	60.150	1.610	max 18.4 avg 18.2 vol 1007 ml
2002/09/06	20:02:30	47.70993471	-127.78576344	2601.255	EVT	60.160	1.610	starting unfiltered number 16
2002/09/06	20:09:23	47.70993342	-127.78576797	2601.289	EVT	60.130	1.540	sample stopped bag 16
2002/09/06	20:09:48	47.70993319	-127.78576823	2601.275	EVT	60.110	1.540	max 18.4 avg 18.2 volume 618 ml
2002/09/06	20:10:55	47.70993300	-127.78576893	2601.255	EVT	60.110	1.530	starting filter bag number 9
2002/09/06	20:17:36	47.70993203	-127.78577447	2601.262	EVT	60.070	1.530	sample stopped
2002/09/06	20:17:57	47.70993211	-127.78577481	2601.302	EVT	60.110	1.530	max 18.5 avg 18.3 vol 630 ml
2002/09/06	20:20:58	47.70993275	-127.78577655	2601.370	EVT	60.110	1.530	Dave is making adjustments to the flood pump
2002/09/06	20:21:15	47.70993260	-127.78577670	2601.275	EVT	60.100	1.540	stopping the flush pump to see what happens
2002/09/06	20:23:25	47.70993257	-127.78577820	2601.194	EVT	60.070	1.530	seems to be less natural flow than pumped flow
2002/09/06	20:28:51	47.70993477	-127.78577926	2601.269	EVT	60.100	1.560	flush pump going again
2002/09/06	20:32:20	47.70993603	-127.78578181	2601.356	EVT	60.100	1.520	waiting to see if the water output clears up
2002/09/06	20:35:05	47.70993567	-127.78578516	2601.275	EVT	60.070	1.600	with the full speed flusing temp = 18.9 and 15.1 on
T2								
2002/09/06	20:39:53	47.70993410	-127.78578899	2601.248	EVT	60.050	1.610	tubes
2002/09/06	20:40:55	47.70993394	-127.78578942	2601.228	EVT	60.060	1.610	ph 7.49
2002/09/06	20:44:12	47.70993432	-127.78578981	2601.289	EVT	60.070	1.620	filtered bag #11 start 20:42 flush pump at high rate
2002/09/06	20:50:59	47.70993359	-127.78579338	2601.248	EVT	60.090	1.540	stopped filtered bag #11 20:50 maxT=19.3 ave
T=19.2 vol=630mls								
2002/09/06	20:51:50	47.70993330	-127.78579390	2601.255	EVT	60.100	1.620	started unfiltered bag #19
2002/09/06	20:52:05	47.70993322	-127.78579377	2601.221	EVT	60.100	1.610	oops not yet
2002/09/06	20:52:15	47.70993317	-127.78579373	2601.228	EVT	60.100	1.620	started bag #19
2002/09/06	20:58:29	47.70993209	-127.78579385	2601.187	EVT	60.090	1.530	stopped the sample
2002/09/06	20:58:49	47.70993210	-127.78579371	2601.187	EVT	60.110	1.640	max 19.4 avg 19.2 vol 632

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	21:00:04	47.70993202	-127.78579360	2601.201	EVT	60.110	1.630	starting filter number one
2002/09/06	21:00:24	47.70993205	-127.78579377	2601.255	EVT	60.090	1.620	starting filter number 1
2002/09/06	21:05:27	47.70993074	-127.78579426	2601.208	EVT	60.080	1.520	gggg
2002/09/06	21:08:14	47.70993066	-127.78579597	2601.174	EVT	60.090	1.530	blank-text
2002/09/06	21:08:37	47.70993090	-127.78579619	2601.214	EVT	60.070	1.590	blank-text
2002/09/06	21:09:48	47.70993043	-127.78579679	2601.120	EVT	60.080	1.520	octopus
2002/09/06	21:10:08	47.70993038	-127.78579727	2601.174	EVT	60.090	1.530	blank-text
2002/09/06	21:10:34	47.70993038	-127.78579738	2601.187	EVT	60.080	1.520	phil
2002/09/06	21:11:07	47.70993039	-127.78579757	2601.133	EVT	60.060	1.510	blank-text
2002/09/06	21:11:14	47.70993033	-127.78579755	2601.181	EVT	60.100	1.520	stopping filter number 1
2002/09/06	21:11:45	47.70993056	-127.78579764	2601.154	EVT	60.090	1.520	max 19.5 avg 19.3 vol 1002 ml
2002/09/06	21:12:02	47.70993057	-127.78579774	2601.228	EVT	60.050	1.510	sampler attached to probe 4
2002/09/06	21:12:22	47.70993060	-127.78579783	2601.194	EVT	60.040	1.520	SAMPLER ATTACHED TO PROBE 3
2002/09/06	21:12:51	47.70993077	-127.78579831	2601.032	EVT	60.100	1.640	blank-text
2002/09/06	21:13:22	47.70993082	-127.78579859	2601.167	EVT	60.090	1.530	starting filter number 1
2002/09/06	21:13:40	47.70993092	-127.78579879	2601.127	EVT	60.080	1.530	previous entry false
2002/09/06	21:13:48	47.70993100	-127.78579882	2601.099	EVT	60.110	1.640	starting filter number 7
2002/09/06	21:14:23	47.70993110	-127.78579847	2601.248	EVT	60.100	1.640	blank-text
2002/09/06	21:18:25	47.70993163	-127.78579873	2601.194	EVT	60.120	1.630	blank-text
2002/09/06	21:19:26	47.70993197	-127.78579879	2601.039	EVT	60.080	1.550	blank-text
2002/09/06	21:25:05	47.70001636	-127.79997433	2601.079	EVT	60.110	1.530	stopped sample 7 GFF
2002/09/06	21:25:24	47.70001639	-127.79997438	2601.032	EVT	60.090	1.530	max 19.5 avg 19.3 vol 1 liter
2002/09/06	21:26:21	47.70001685	-127.79997453	2601.140	EVT	60.100	1.530	starting filter number 12
2002/09/06	21:28:11	47.70001717	-127.79997483	2601.032	EVT	60.080	1.530	blank-text
2002/09/06	21:29:19	47.70001699	-127.79997433	2601.018	EVT	60.100	1.540	blank-text
2002/09/06	21:31:22	47.70001686	-127.79997328	2600.944	EVT	60.110	1.530	blank-text
2002/09/06	21:35:37	47.70001713	-127.79997369	2600.924	EVT	60.080	1.530	blank-text
2002/09/06	21:36:01	47.70001728	-127.79997372	2600.998	EVT	60.090	1.520	checking video lineup to VV
2002/09/06	21:36:15	47.70001733	-127.79997376	2601.093	EVT	60.130	1.540	screen grab sources updated
2002/09/06	21:36:19	47.70001743	-127.79997377	2601.045	EVT	60.100	1.530	patched to remove deck camera and add video 7
2002/09/06	21:37:25	47.70001752	-127.79997392	2601.032	EVT	60.140	1.530	stopping sample 12
2002/09/06	21:37:43	47.70001750	-127.79997401	2600.984	EVT	60.120	1.530	max 19.4 avg 19.3 vol 1007
2002/09/06	21:38:26	47.70001769	-127.79997426	2600.903	EVT	60.130	1.540	checking exhaust pipes
2002/09/06	21:38:42	47.70001770	-127.79997423	2601.005	EVT	60.070	1.540	stop flush pump
2002/09/06	21:38:47	47.70001769	-127.79997425	2600.937	EVT	60.120	1.540	stopping flush tube
2002/09/06	21:40:08	47.70001753	-127.79997472	2600.978	EVT	60.100	1.550	taking off the manifold sampler intake probe
2002/09/06	21:42:18	47.70001770	-127.79997399	2600.957	EVT	60.060	1.520	blank-text
2002/09/06	21:42:20	47.70001763	-127.79997403	2600.984	EVT	60.070	1.540	blank-text
2002/09/06	21:42:21	47.70001763	-127.79997403	2600.984	EVT	60.070	1.540	blank-text
2002/09/06	21:45:33	47.70001751	-127.79997443	2601.045	EVT	60.060	1.650	probe venting like a fire hose
2002/09/06	21:45:46	47.70001736	-127.79997419	2601.025	EVT	60.070	1.590	flushing out

Event log: LEXEN 2002**Dive J2-005**

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	21:47:57	47.70001648	-127.79997417	2600.957	EVT	60.050	1.670	push core
2002/09/06	21:49:35	47.70001686	-127.79997467	2600.849	EVT	60.140	1.640	heading toward target 12
2002/09/06	21:50:42	47.70001783	-127.79997441	2600.897	EVT	60.090	1.650	venting
2002/09/06	21:50:51	47.70001800	-127.79997428	2600.863	EVT	60.100	1.640	blank-text
2002/09/06	21:51:13	47.70001790	-127.79997341	2599.064	EVT	59.980	3.460	core depression
2002/09/06	21:51:13	47.70001798	-127.79997368	2598.935	EVT	59.730	3.600	still venting - looks like a fire hose
2002/09/06	21:51:51	47.70989867	-127.78572330	2599.375	EVT	40.830	2.940	now moving to probe 5 the bent probe
2002/09/06	21:54:25	47.70985685	-127.78574656	2599.483	EVT	89.450	4.820	probe 5 area
2002/09/06	21:56:38	47.70985689	-127.78572061	2599.875	EVT	89.160	3.580	probe 5
2002/09/06	21:58:08	47.70986288	-127.78571266	2600.464	EVT	99.580	2.540	looking for probe 5
2002/09/06	22:01:38	47.70985927	-127.78571064	2602.073	EVT	40.080	0.740	looking for probe
2002/09/06	22:02:34	47.70986162	-127.78571507	2602.013	EVT	39.960	0.780	found piece
2002/09/06	22:03:02	47.70986236	-127.78571671	2602.006	EVT	39.950	0.780	found probe #5
2002/09/06	22:03:37	47.70986356	-127.78571878	2601.918	EVT	39.960	0.780	probe #5
2002/09/06	22:05:29	47.70986791	-127.78572027	2600.071	EVT	39.960	2.790	leaving probe #5
2002/09/06	22:06:48	47.70987326	-127.78569218	2597.670	EVT	42.750	4.090	probe # 4
2002/09/06	22:07:33	47.70988424	-127.78568423	2596.987	EVT	68.390	4.590	probe #4 site
2002/09/06	22:08:24	47.70988415	-127.78566435	2599.429	EVT	69.000	1.250	probe #4
2002/09/06	22:09:31	47.70988371	-127.78566644	2599.733	EVT	69.450	0.970	probe 4
2002/09/06	22:17:51	47.70992579	-127.78578260	2599.760	EVT	69.340	0.940	temp ready
2002/09/06	22:18:29	47.70992711	-127.78578794	2599.625	EVT	69.620	1.210	2.1 ambiance
2002/09/06	22:19:22	47.70992741	-127.78579029	2599.706	EVT	69.670	1.180	moving temperature probe into position
2002/09/06	22:19:56	47.70992785	-127.78579207	2599.578	EVT	69.660	1.190	temp rising 8, 9, 10, 11, 12,
2002/09/06	22:20:06	47.70992815	-127.78579322	2599.598	EVT	69.670	1.180	12.3
2002/09/06	22:20:44	47.70992852	-127.78579587	2599.632	EVT	69.660	1.190	12.5 , 12.6, 12.8, 12.9
2002/09/06	22:21:02	47.70992925	-127.78579863	2599.571	EVT	69.660	1.190	12.9 max temperature
2002/09/06	22:22:53	47.70992586	-127.78578504	2599.862	EVT	71.980	0.770	now we will use the UW temp probe
2002/09/06	22:25:40	47.70992538	-127.78578872	2599.165	EVT	69.070	1.430	inserting the UW temperature probe
2002/09/06	22:26:08	47.70992514	-127.78578835	2599.179	EVT	69.090	1.450	probe is now inserted as far as it will go
2002/09/06	22:26:09	47.70992514	-127.78578826	2599.212	EVT	69.090	1.400	taking temp of probe #4
2002/09/06	22:26:40	47.70992472	-127.78578775	2599.097	EVT	69.090	1.410	"That's far enough", says PaUL
2002/09/06	22:37:37	47.70992272	-127.78578471	2599.010	EVT	69.060	1.380	removing the UW temperature probe
2002/09/06	22:38:16	47.70992288	-127.78578490	2599.030	EVT	69.080	1.340	we will now take a push core
2002/09/06	22:39:14	47.70992173	-127.78578762	2599.253	EVT	68.090	1.300	extending Jason's drawer
2002/09/06	22:43:39	47.70992147	-127.78578537	2598.982	EVT	70.090	1.470	taking a push core sample
2002/09/06	22:45:27	47.70992207	-127.78578681	2598.928	EVT	69.740	1.450	push core in the ground
2002/09/06	22:46:01	47.70992269	-127.78578932	2598.935	EVT	69.710	1.480	shakeing it out - will retry in another spot
2002/09/06	22:48:38	47.70992244	-127.78579021	2599.091	EVT	68.210	1.450	we have enough of a sample for the push core
2002/09/06	22:49:49	47.70991695	-127.78578627	2599.280	EVT	68.110	1.240	recovering sediment core
2002/09/06	22:52:19	47.70991802	-127.78578770	2599.179	EVT	69.990	1.430	Recovering part of probe #4
2002/09/06	22:53:20	47.70991789	-127.78578818	2598.976	EVT	69.840	1.390	Piece of Probe 4 removed

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	22:57:15	47.70991297	-127.78580813	2596.886	EVT	89.150	4.480	doing a "nice, spiral pattern" to find a new site
2002/09/06	23:00:33	47.70989228	-127.78587483	2597.954	EVT	59.910	5.920	searching for a new site to put the 3 m titanium probe
	(Probe 5)							
2002/09/06	23:04:51	47.70990039	-127.78589134	2600.612	EVT	157.220	2.820	at marker 30
2002/09/06	23:06:03	47.70984438	-127.78590129	2601.857	EVT	179.330	2.370	pelagic swimmer
2002/09/06	23:06:38	47.70983630	-127.78589724	2601.674	EVT	201.510	2.160	barrel sampler
2002/09/06	23:06:59	47.70982176	-127.78588686	2601.546	EVT	179.740	2.410	another old barrel sampler
2002/09/06	23:07:57	47.70975703	-127.78582668	2602.290	EVT	135.060	2.090	hilly region with clam shell fragments
2002/09/06	23:13:07	47.70976783	-127.78581314	2602.872	EVT	135.270	1.340	removing the ICL
2002/09/06	23:13:34	47.70976708	-127.78581302	2602.872	EVT	135.260	1.340	ICL temperature probe testing the ambient water
2002/09/06	23:14:13	47.70976427	-127.78581303	2602.804	EVT	135.430	1.340	background water temperature 2.1
2002/09/06	23:14:23	47.70976418	-127.78581384	2602.797	EVT	135.350	1.380	ICL temperature probing the sediment
2002/09/06	23:14:48	47.70976423	-127.78581286	2602.844	EVT	135.050	1.450	ICL temp 5.7 and rising in the sediment
2002/09/06	23:15:18	47.70976357	-127.78580873	2602.763	EVT	135.070	1.520	maximum sediment temperature
2002/09/06	23:16:12	47.70976297	-127.78580404	2602.757	EVT	135.100	1.490	CTD shows steady temp of 1.790
2002/09/06	23:18:21	47.70975911	-127.78579783	2602.797	EVT	135.140	1.470	maximum sediment temperature at 7.0
2002/09/06	23:18:43	47.70976012	-127.78579670	2602.642	EVT	135.360	1.390	removing the ICL from the sediment
2002/09/06	23:21:55	47.70976270	-127.78579960	2602.716	EVT	135.290	1.460	another ICL probe at same site, maximum
	temperature at 7.5							
2002/09/06	23:22:47	47.70976300	-127.78579701	2602.831	EVT	135.130	1.440	one more stab with the ICL, about a meter to the right
	of the last probe							
2002/09/06	23:22:55	47.70976300	-127.78579669	2602.804	EVT	135.160	1.450	temperature 9.2 and rising
2002/09/06	23:23:38	47.70976448	-127.78579497	2602.757	EVT	135.130	1.450	maximum temperature 9.3
2002/09/06	23:24:55	47.70976437	-127.78579076	2602.831	EVT	135.540	1.250	water is full of floating particulate matter, but what is
	the source?							
2002/09/06	23:25:59	47.70974040	-127.78575450	2601.458	EVT	134.070	1.680	CTD reading 1.79 for an instant
2002/09/06	23:28:33	47.70974229	-127.78572321	2602.297	EVT	136.900	0.880	it's very hard to see
2002/09/06	23:29:51	47.70971530	-127.78567193	2600.017	EVT	118.260	2.640	white sthing
2002/09/06	23:31:08	47.70971621	-127.78567197	2602.513	EVT	118.220	30.000	swimming crustaceans with the will to survive the
	sediment-storm generated by Jason							
2002/09/06	23:40:06	47.70968080	-127.78595193	2600.707	EVT	329.390	1.950	holes appear to have leaked fluid recently, vide Paul
2002/09/06	23:40:23	47.70967599	-127.78599265	2600.545	EVT	313.710	1.940	back to the old Wheat barrel samplers
2002/09/06	23:42:04	47.70969513	-127.78610885	2603.399	EVT	4.000	2.080	a closer investigation of the Wheat barrel samplers
2002/09/06	23:44:01	47.70971581	-127.78609769	2604.353	EVT	1.570	0.830	marker 15 in background near barrel sampler resting
	on side, with living occupants							
2002/09/06	23:45:03	47.70971645	-127.78609675	2604.346	EVT	1.150	1.040	ICL temperature probe near the in situ barrel sampler
2002/09/06	23:45:36	47.70971569	-127.78609725	2604.596	EVT	1.370	0.830	ICL probing the hole of the barrel itself
2002/09/06	23:45:59	47.70971651	-127.78609548	2604.434	EVT	1.350	0.830	temperature in barrel 2.2
2002/09/06	23:46:47	47.70971639	-127.78609540	2604.366	EVT	1.070	0.880	maximum temperature in barrel 2.4
2002/09/06	23:47:36	47.70971574	-127.78609701	2604.366	EVT	0.920	1.040	temperature in sediment next to barrel at 4 and rising

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/06	23:48:24	47.70970508	-127.78609729	2603.020	EVT	348.450	2.060	highest recorded temperature in sediment next to barrel at 10.0
2002/09/06	23:49:25	47.70972287	-127.78610935	2603.791	EVT	60.590	2.440	temperature probe aborted, vehicle pulled away -- but this may be a good place to put Probe 5 (Ti)
2002/09/06	23:50:40	47.70973372	-127.78610902	2604.698	EVT	83.570	1.660	a generalization from Paul: places that have had flow in the recent past have shut down now
2002/09/06	23:51:10	47.70973407	-127.78610921	2604.616	EVT	83.880	1.700	coming back for another try at ICL in the sediment near the in situ barrel sampler
2002/09/06	23:52:51	47.70973489	-127.78610902	2604.704	EVT	83.560	1.710	maximum temperature of the sediment near the barrel sampler at 17.7
2002/09/06	23:53:33	47.70973505	-127.78610866	2604.644	EVT	83.780	1.710	Alvin weights off to the right
2002/09/06	23:56:11	47.70973475	-127.78610513	2604.542	EVT	83.750	1.690	ICL behind the barrel sampler, max temp 15.0
2002/09/06	23:56:36	47.70973479	-127.78610469	2604.698	EVT	83.660	1.710	CTD background temperature of 1.779
2002/09/06	23:59:16	47.70973296	-127.78610438	2601.728	EVT	82.960	4.750	rising "like a phoenix" to get a fix
2002/09/07	00:00:00	47.70973341	-127.78610441	2602.215	EVT	82.820	4.290	target 27 placed here
2002/09/07	00:01:22	47.70979688	-127.78613333	2601.539	EVT	3.410	3.570	Target 27 TXT ophiuroids and asteroids
2002/09/07	00:01:47	47.70984411	-127.78616255	2601.492	EVT	2.580	3.800	octopus
2002/09/07	00:05:45	47.70989300	-127.78611184	2600.437	EVT	80.510	3.030	coming up on marker 17, thermal sombrero in background
2002/09/07	00:07:25	47.70990482	-127.78607863	2597.765	EVT	64.200	4.370	going to pick up the thermal blanket (dark echinoid below)
2002/09/07	00:08:37	47.70991983	-127.78603478	2599.104	EVT	64.100	1.360	End of Thermal Blanket 1 Deployment
2002/09/07	00:11:22	47.70991836	-127.78603446	2598.455	EVT	47.690	1.940	thermal blanket picked up at 00:11:11 on the fault scarp
2002/09/07	00:12:11	47.70991836	-127.78603376	2598.414	EVT	47.520	1.950	Graneledone was guarding the thermal blanket
2002/09/07	00:14:14	47.70992180	-127.78602271	2597.434	EVT	47.410	2.550	thermal blanket in tow
2002/09/07	00:15:45	47.70992785	-127.78598592	2596.534	EVT	47.590	1.880	preparing to drop the thermal blanket
2002/09/07	00:17:40	47.70993487	-127.78598982	2595.891	EVT	117.770	2.620	thermal blanket hovering over ophiuroids and a crinoid
2002/09/07	00:20:12	47.70993514	-127.78598682	2596.507	EVT	134.670	1.590	thermal blanket placed down at 00:20:10
2002/09/07	00:22:20	47.70993583	-127.78598788	2596.487	EVT	134.780	1.590	Begin Thermal Blanket 2 Deployment
2002/09/07	00:28:23	47.70995561	-127.78602259	2595.141	EVT	134.050	3.020	leaving the thermal blanket near a probable Spectrunculus
2002/09/07	00:30:20	47.70995723	-127.78609417	2596.980	EVT	196.670	1.890	echinoid
2002/09/07	00:37:36	47.70983273	-127.78558706	2597.116	EVT	101.030	2.480	preparing to stick UW probe all the way into Probe 4
2002/09/07	00:42:16	47.70989757	-127.78568844	2597.691	EVT	101.680	1.790	UW probe inserted in probe 4
2002/09/07	00:43:04	47.70989733	-127.78568849	2597.576	EVT	101.510	1.800	UW probe inside probe 4
2002/09/07	00:54:10	47.70989759	-127.78568858	2597.596	EVT	101.250	1.790	UW probe removed from probe 4
2002/09/07	00:55:30	47.70989767	-127.78568897	2597.582	EVT	101.520	1.710	still fluid flow coming out of the probe orifice
2002/09/07	01:03:21	47.70989935	-127.78568966	2597.528	EVT	101.750	1.780	Preparing to take a major water sample at probe #4
2002/09/07	01:11:56	47.70989945	-127.78569123	2597.596	EVT	101.400	1.790	major sampler dropped, sampling aborted

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	01:12:23	47.70989945	-127.78569120	2597.508	EVT	101.390	1.810	preparing to use other major sampler at Probe 4
2002/09/07	01:16:04	47.70990015	-127.78569086	2597.447	EVT	101.330	1.800	lifting the major sampler
2002/09/07	01:17:57	47.70990006	-127.78569176	2597.454	EVT	101.600	1.830	wrestling with the major sampler
2002/09/07	01:26:26	47.70991616	-127.78575807	2599.726	EVT	42.810	1.540	sampling Probe 4
2002/09/07	01:29:05	47.70991549	-127.78575806	2599.571	EVT	41.870	1.330	removing the major sampler
2002/09/07	01:31:26	47.70991542	-127.78575871	2599.571	EVT	40.640	1.340	nozzle of the major sampler at the nipple of Probe 4
2002/09/07	01:33:18	47.70991525	-127.78575848	2599.388	EVT	39.660	1.270	fluid flow at probe
2002/09/07	01:33:25	47.70991526	-127.78575859	2599.496	EVT	39.660	1.270	shimmering water at Probe 4
2002/09/07	01:33:34	47.70991524	-127.78575876	2599.551	EVT	39.640	1.260	blank-text
2002/09/07	01:33:35	47.70991526	-127.78575882	2599.517	EVT	39.640	1.260	blank-text
2002/09/07	01:33:36	47.70991528	-127.78575882	2599.591	EVT	39.630	1.260	blank-text
2002/09/07	01:33:40	47.70991521	-127.78575891	2599.578	EVT	39.620	1.260	blank-text
2002/09/07	01:34:11	47.70991521	-127.78575855	2599.666	EVT	39.570	1.270	last few "blanks" were of fluid flow out of Probe 4
2002/09/07	01:35:04	47.70991316	-127.78576223	2599.578	EVT	35.750	1.230	replacing the major sampler
2002/09/07	01:36:16	47.70991204	-127.78575711	2599.571	EVT	35.470	1.300	dropping the major sampler
2002/09/07	01:37:10	47.70991177	-127.78575437	2599.510	EVT	35.260	1.310	UW probe at Probe 4
2002/09/07	01:38:56	47.70991046	-127.78575347	2599.524	EVT	32.750	1.260	Putting UW Temp Probe in Probe 3 for ten minutes
(NOTE: The previous mention of "Probe 4" for this site was in error)								
2002/09/07	01:40:49	47.70990840	-127.78575104	2599.557	EVT	28.000	1.200	Frame grabs 2569 onwards depict Probe 3, those prior are indeed Probe 4
2002/09/07	01:41:12	47.70990923	-127.78575077	2599.510	EVT	27.810	1.210	UW temp probe in Probe 3
2002/09/07	01:45:36	47.70991077	-127.78574338	2599.496	EVT	25.080	1.110	UW probe is still in Probe 3
2002/09/07	01:46:18	47.70991240	-127.78573975	2599.605	EVT	25.080	1.120	fish
2002/09/07	01:47:13	47.70991406	-127.78573578	2599.551	EVT	25.060	1.110	that last fish was the zoarcid Pachycara
2002/09/07	01:52:30	47.70992079	-127.78572408	2599.578	EVT	24.930	1.320	End of UW temperature probe in Probe 3
2002/09/07	01:53:15	47.70992048	-127.78572493	2599.605	EVT	24.720	1.420	UW probe removed at 1:53
2002/09/07	01:59:40	47.70991651	-127.78573468	2599.632	EVT	17.960	0.980	placing connector on Probe 3
2002/09/07	02:01:36	47.70991560	-127.78573715	2599.571	EVT	12.680	1.130	Probe 3
2002/09/07	02:02:11	47.70991705	-127.78573528	2599.584	EVT	12.110	0.870	Steady value of 11.5 with no pumping
2002/09/07	02:02:19	47.70991650	-127.78573640	2599.726	EVT	12.030	0.860	Pump turned on
2002/09/07	02:03:06	47.70991630	-127.78573683	2599.618	EVT	11.720	0.860	stuff coming out of the exhaust
2002/09/07	02:04:11	47.70991681	-127.78573590	2599.544	EVT	11.430	0.840	temperature currently at 13.7
2002/09/07	02:05:40	47.70992022	-127.78573512	2599.503	EVT	11.050	0.850	14 degrees on the intake and 12.4 on the outflow
2002/09/07	02:05:55	47.70992191	-127.78573538	2599.652	EVT	11.040	0.860	pump turned off to reset the speed, then turned back on
2002/09/07	02:06:03	47.70992283	-127.78573525	2599.699	EVT	11.030	0.850	pump is on at full speed
2002/09/07	02:08:47	47.70992256	-127.78573230	2599.726	EVT	10.700	0.870	firing gas tightens one and two\
2002/09/07	02:10:44	47.70992166	-127.78571607	2599.632	EVT	10.420	0.880	on two gastights t1 was 15.0 and t2 was 14.9
2002/09/07	02:15:52	47.70992990	-127.78569904	2599.584	EVT	9.980	0.830	exhaust water
2002/09/07	02:16:08	47.70993048	-127.78569814	2599.632	EVT	9.960	0.830	sampling Probe 3 yet again
2002/09/07	02:22:22	47.70992431	-127.78569371	2599.618	EVT	9.310	0.870	sampler done

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	02:24:23	47.70992231	-127.78569675	2599.666	EVT	7.890	0.990	disconnecting the sampler
2002/09/07	02:25:29	47.70992436	-127.78570059	2599.679	EVT	5.640	30.000	frame
2002/09/07	02:25:50	47.70992882	-127.78570759	2599.679	EVT	5.100	30.000	Piston 20 tmax 16.4, avg. 16.0, 690 mL
2002/09/07	02:26:05	47.70992859	-127.78570774	2599.639	EVT	4.730	0.990	Piston 20 sample similar to two gas tights they took
2002/09/07	02:26:15	47.70992931	-127.78570859	2599.726	EVT	4.590	0.840	fluid flow
2002/09/07	02:26:20	47.70992858	-127.78570943	2599.686	EVT	4.490	0.830	fluid flow at Probe 3
2002/09/07	02:26:25	47.70992778	-127.78571050	2599.557	EVT	4.440	0.830	fluid flow at Probe 3
2002/09/07	02:26:32	47.70992604	-127.78570899	2599.659	EVT	4.390	0.830	fluid flow at probe 3
2002/09/07	02:27:07	47.70991671	-127.78569889	2599.659	EVT	4.210	0.860	nozzle of Probe 3 venting fluid
2002/09/07	02:27:11	47.70991538	-127.78569783	2599.639	EVT	4.180	0.850	fluid flow
2002/09/07	02:27:14	47.70991482	-127.78569742	2599.652	EVT	4.180	0.880	fluid flow
2002/09/07	02:27:18	47.70991442	-127.78569763	2599.611	EVT	4.150	0.920	fluid flow
2002/09/07	02:27:21	47.70991460	-127.78569796	2599.686	EVT	4.130	30.000	fluid flow
2002/09/07	02:28:12	47.70990918	-127.78568876	2599.618	EVT	3.860	0.820	Probe 3 behind some flushed up sediment
2002/09/07	02:30:50	47.70988829	-127.78566275	2599.625	EVT	2.860	0.870	New name for probe: LANCE -- LithoAqueous
Needle Connector and Extractor								
2002/09/07	02:35:33	47.70992005	-127.78569520	2599.652	EVT	1.190	30.000	Holding position near Probe, ahem, L.A.N.C.E.,
Number 3								
2002/09/07	02:42:30	47.70990436	-127.78585469	2596.446	EVT	309.540	3.870	GEO.general List Not Available TXT moving
towards the drop site for the elevator								
2002/09/07	02:45:13	47.70980111	-127.78560223	2593.977	EVT	129.880	1.870	eel pout
2002/09/07	03:17:53	47.71127337	-127.78726678	2550.069	EVT	114.680	30.000	ship is in position, waiting for elevator drop
2002/09/07	03:35:24	47.71162444	-127.78893521	2549.974	EVT	275.970	30.000	first elvator in the water and released
2002/09/07	04:26:58	47.71142764	-127.78806887	2550.035	EVT	252.620	30.000	elevator range 157m bearing 332
2002/09/07	04:40:04	47.71150819	-127.78770826	2549.968	EVT	183.940	30.000	elevator on the bottom
2002/09/07	04:43:39	47.71158622	-127.78761581	2549.744	EVT	171.570	30.000	elevator 1 is nav target 28
2002/09/07	04:44:16	47.71166621	-127.78761868	2552.951	EVT	150.700	30.000	elevator has hit bottom, now moving toward it
2002/09/07	04:44:27	47.71169241	-127.78763516	2555.014	EVT	169.710	30.000	140 meters to go and get elevator
2002/09/07	04:53:26	47.71191892	-127.78762682	2566.623	EVT	112.090	30.000	115 meters to elevator
2002/09/07	04:54:01	47.71191878	-127.78762612	2566.068	EVT	112.310	30.000	blank-text
2002/09/07	05:05:47	47.71193679	-127.78748032	2573.428	EVT	145.060	30.000	still on our way, about 50m away
2002/09/07	05:08:59	47.71184675	-127.78740102	2597.352	EVT	140.660	30.000	60 meters to elevator
2002/09/07	05:16:17	47.71172913	-127.78711696	2637.072	EVT	274.030	8.740	directly above elevator, going down
2002/09/07	05:16:37	47.71172751	-127.78708690	2639.493	EVT	274.040	5.930	found it
2002/09/07	05:16:40	47.71172779	-127.78708926	2639.878	EVT	273.770	5.410	Elevator in sight
2002/09/07	05:16:50	47.71172876	-127.78711038	2641.177	EVT	273.840	4.990	Elevator
2002/09/07	05:17:06	47.71172877	-127.78711523	2642.509	EVT	274.350	3.680	top of elevator
2002/09/07	05:17:14	47.71172885	-127.78711374	2643.936	EVT	274.240	2.450	blank-text
2002/09/07	05:17:21	47.71172915	-127.78711440	2644.030	EVT	274.020	2.390	Full viewof elevator
2002/09/07	05:17:37	47.71172883	-127.78711276	2644.970	EVT	273.620	1.630	blank-text
2002/09/07	05:18:11	47.71172864	-127.78711397	2644.903	EVT	274.140	1.580	blank-text

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	05:18:12	47.71172864	-127.78711397	2644.903	EVT	274.140	1.580	elevator
2002/09/07	05:18:27	47.71172877	-127.78711329	2644.855	EVT	273.800	1.600	elevator
2002/09/07	05:19:51	47.71176060	-127.78714982	2644.889	EVT	183.600	4.820	elevator
2002/09/07	05:20:44	47.71175019	-127.78717887	2644.794	EVT	157.570	5.520	different view of elevator
2002/09/07	05:21:39	47.71175261	-127.78715348	2644.774	EVT	158.220	5.160	top view of elevator
2002/09/07	05:22:17	47.71174853	-127.78716555	2644.754	EVT	158.130	5.200	elevator
2002/09/07	05:22:50	47.71174841	-127.78716552	2644.808	EVT	158.570	5.270	trying to grab it
2002/09/07	05:23:20	47.71174931	-127.78716426	2644.930	EVT	157.820	5.300	graping
2002/09/07	05:23:25	47.71174942	-127.78716446	2644.957	EVT	158.490	5.280	grabbing it
2002/09/07	05:25:37	47.71174590	-127.78716531	2642.590	EVT	159.160	8.670	lifting elevator
2002/09/07	05:25:55	47.71177903	-127.78719192	2642.008	EVT	147.790	9.410	dropped it
2002/09/07	05:26:02	47.71178383	-127.78719629	2642.448	EVT	157.750	9.110	oops
2002/09/07	05:26:03	47.71178411	-127.78719631	2642.529	EVT	157.420	8.990	elevator dropped
2002/09/07	05:29:20	47.71174543	-127.78717391	2645.166	EVT	157.320	5.070	attempting to pick up elevator again
2002/09/07	05:30:24	47.71174591	-127.78717539	2645.220	EVT	157.080	5.050	grasping elevator
2002/09/07	05:32:26	47.71174266	-127.78717297	2643.327	EVT	157.590	7.640	got it. on our way to probe 3
2002/09/07	05:32:32	47.71174261	-127.78717306	2643.347	EVT	157.050	7.720	about 160m away
2002/09/07	05:32:59	47.71174268	-127.78717390	2643.395	EVT	155.590	7.620	167 meters bearing 141
2002/09/07	05:33:34	47.71174285	-127.78717333	2643.239	EVT	146.210	7.460	167 meters bearing 141 to target
2002/09/07	05:35:05	47.71174280	-127.78717292	2643.178	EVT	144.740	7.710	altitude 7.7 meters
2002/09/07	05:40:20	47.71171180	-127.78713910	2642.705	EVT	142.640	7.970	stalked organism to left of elevator
2002/09/07	05:41:05	47.71171202	-127.78713927	2642.658	EVT	142.250	7.790	blank-text
2002/09/07	05:42:07	47.71172684	-127.78715526	2640.791	EVT	144.400	10.190	blank-text
2002/09/07	05:42:55	47.71172711	-127.78715497	2637.342	EVT	144.640	14.190	increasing elevation of 12 m, need to cross summit
2002/09/07	05:44:34	47.71169038	-127.78711542	2634.752	EVT	144.810	15.190	elevation now 15 m
2002/09/07	05:58:56	47.71111994	-127.78650823	2614.017	EVT	144.490	14.920	still on our way to probe 3
2002/09/07	06:05:41	47.71084792	-127.78621875	2601.884	EVT	144.620	14.080	about 100m from probe now
2002/09/07	06:28:50	47.71019558	-127.78552058	2596.088	EVT	58.710	10.630	found marker 17
2002/09/07	06:31:22	47.71019354	-127.78551900	2598.807	EVT	59.390	7.670	trying to determine where probe 3 is relative to
marker 17								
2002/09/07	06:33:42	47.71018709	-127.78554556	2599.436	EVT	60.830	6.880	set down elevator
2002/09/07	06:34:36	47.71018993	-127.78554687	2599.868	EVT	60.350	6.580	and cut thrusters to get better reading
2002/09/07	06:37:38	47.70988006	-127.78576842	2600.207	EVT	137.900	3.920	should be within a couple meters
2002/09/07	06:38:09	47.70988254	-127.78576436	2601.613	EVT	138.340	2.550	going down to look around
2002/09/07	06:40:30	47.70985323	-127.78580910	2600.484	EVT	27.690	6.060	dvl 16 is new elevator position
2002/09/07	06:42:20	47.70991080	-127.78578688	2600.450	EVT	27.610	3.930	possibly spotted probe with medea cam
2002/09/07	06:44:15	47.70993917	-127.78576473	2600.362	EVT	27.840	2.740	investigating - found marker 17 again
2002/09/07	06:44:34	47.70994727	-127.78575763	2600.119	EVT	35.460	2.390	blank-text
2002/09/07	06:45:48	47.70994680	-127.78573371	2599.361	EVT	104.710	2.450	found thermal blanket
2002/09/07	06:46:25	47.70994481	-127.78573164	2599.821	EVT	150.660	1.290	found it
2002/09/07	06:46:39	47.70993907	-127.78574687	2599.787	EVT	150.920	1.750	blank-text

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	06:46:51	47.70993702	-127.78575257	2599.841	EVT	150.980	1.950	just happened to drop elevator right next to probe
2002/09/07	06:48:42	47.70993782	-127.78575072	2599.598	EVT	150.880	2.040	blank-text
2002/09/07	06:51:35	47.70993756	-127.78575061	2599.841	EVT	150.790	1.860	elevator down
2002/09/07	07:01:42	47.70984840	-127.78577025	2599.652	EVT	77.480	6.960	Trying to pick up the elevator again
2002/09/07	07:05:58	47.70992780	-127.78575623	2597.522	EVT	89.640	5.770	Trying to decide where to position the elevator near
probe 3								
2002/09/07	07:07:52	47.70992032	-127.78578903	2598.840	EVT	100.240	5.010	Waiting for sediment cloud to cover
2002/09/07	07:12:17	47.70995116	-127.78576150	2600.437	EVT	165.760	0.840	We're going to put the Pipe Mav at Probe 4
2002/09/07	07:14:11	47.70993858	-127.78573087	2600.092	EVT	157.930	30.000	We are positioning to release the Pipe MAVS
2002/09/07	07:16:51	47.71008465	-127.78585816	2600.362	EVT	161.150	30.000	Released one of the pins on the Pipe MAV
2002/09/07	07:17:42	47.71013160	-127.78586966	2600.403	EVT	161.970	30.000	Trying to pick up the Pipe MAVS
2002/09/07	07:19:57	47.70992415	-127.78571982	2600.342	EVT	161.910	30.000	Picking up the Pipe MAVS
2002/09/07	07:21:09	47.70994262	-127.78575871	2600.105	EVT	159.720	0.850	Taking the Pipe MAVS to Pipe 4
2002/09/07	07:23:24	47.70984356	-127.78566983	2600.606	EVT	35.330	2.050	Moving to Pipe 4 with Pipe MAVS
2002/09/07	07:27:02	47.70983726	-127.78565638	2597.041	EVT	7.280	4.620	Trying to find Probe 4
2002/09/07	07:34:02	47.70983016	-127.78560694	2599.084	EVT	344.210	1.110	We are trying to find Probe 4 still
2002/09/07	07:46:37	47.70990010	-127.78563550	2595.222	EVT	303.520	3.220	Still looking for Probe 4
2002/09/07	07:51:49	47.70983581	-127.78567575	2599.010	EVT	356.950	2.880	
2002/09/07	07:53:09	47.70982064	-127.78565642	2598.326	EVT	40.980	4.170	We have found Probe 4
2002/09/07	07:54:46	47.70982124	-127.78563664	2600.633	EVT	40.680	0.870	We are deploying the Pipe MAVS at Probe 4
2002/09/07	07:55:43	47.70982201	-127.78563640	2600.565	EVT	39.170	30.000	We have placed the Pipe MAVS at Probe 4 and are
now positioning the intake valve								
2002/09/07	07:56:22	47.70982146	-127.78563771	2600.470	EVT	39.110	1.180	The intake valve is on Probe 4
2002/09/07	07:57:00	47.70981227	-127.78562892	2599.341	EVT	39.120	1.960	Pipe MAV at probe 4
2002/09/07	07:58:05	47.70981248	-127.78562968	2599.280	EVT	39.120	2.040	Pipe MAVS at Probe 4
2002/09/07	07:58:27	47.70981249	-127.78562929	2599.327	EVT	39.030	1.950	Pipe MAVS
2002/09/07	07:59:04	47.70981252	-127.78562974	2599.192	EVT	39.050	2.180	Can see shimmery flow coming out of the Pipe
MAVS at Probe 4\								
2002/09/07	07:59:42	47.70981201	-127.78563001	2599.138	EVT	39.020	2.130	Pipe MAVS
2002/09/07	07:59:47	47.70980948	-127.78563370	2599.165	EVT	38.600	2.370	blank-text
2002/09/07	07:59:50	47.70980881	-127.78563474	2599.321	EVT	39.180	2.350	blank-text
2002/09/07	08:00:09	47.70981211	-127.78564916	2599.375	EVT	28.500	2.720	All Pipe MAVS
2002/09/07	08:00:39	47.70980838	-127.78570360	2599.172	EVT	355.660	4.030	Going back to elevator
2002/09/07	08:02:58	47.70986816	-127.78575235	2600.450	EVT	20.930	3.540	elevator
2002/09/07	08:03:15	47.70986964	-127.78575091	2601.221	EVT	20.850	2.700	elevator
2002/09/07	08:03:49	47.70990467	-127.78574294	2602.425	EVT	20.700	1.320	Figuring out the barrel sampler
2002/09/07	08:07:41	47.70988294	-127.78573248	2602.547	EVT	48.340	0.830	started flush pump
2002/09/07	08:08:15	47.70988591	-127.78573527	2602.479	EVT	48.370	0.830	blank-text
2002/09/07	08:08:19	47.70988599	-127.78573587	2602.547	EVT	48.370	0.840	
2002/09/07	08:08:26	47.70988686	-127.78573646	2602.493	EVT	48.390	0.830	flow
2002/09/07	08:08:41	47.70988836	-127.78573730	2602.642	EVT	48.350	0.830	close up of venting probe

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	08:09:10	47.70988846	-127.78573626	2602.594	EVT	48.390	0.830	Taking temperature
2002/09/07	08:09:28	47.70988904	-127.78573472	2602.567	EVT	48.440	0.830	measured temperature rising rapidly
2002/09/07	08:09:52	47.70989034	-127.78573028	2602.405	EVT	48.460	0.830	still going up at 18
2002/09/07	08:10:05	47.70989102	-127.78572899	2602.547	EVT	48.470	0.820	18.9 max temperature
2002/09/07	08:12:31	47.70989191	-127.78573404	2602.533	EVT	48.350	0.820	now the probe is spewing sediment
2002/09/07	08:12:58	47.70989170	-127.78573668	2602.479	EVT	48.380	0.840	After removing the temperature probe from
		Butterfields sampler, there is a ton of sedimenty fluid coming out						
2002/09/07	08:13:07	47.70989173	-127.78573747	2602.533	EVT	48.370	0.830	Before this, the fluid was clear and shimmery
2002/09/07	08:13:25	47.70989142	-127.78573893	2602.513	EVT	48.380	0.830	still venting sediment
2002/09/07	08:13:37	47.70989148	-127.78574029	2602.445	EVT	48.410	0.840	When Will pulled the probe off, he felt movement
		side to side\						
2002/09/07	08:13:56	47.70989202	-127.78574255	2602.405	EVT	48.380	0.830	This has happened before- horizontal movement with
		the pipe entrains sediment for awhile						
2002/09/07	08:14:52	47.70988875	-127.78577153	2601.336	EVT	39.230	2.900	Waiting for the cloud to clear\
2002/09/07	08:17:11	47.70991429	-127.78578642	2603.027	EVT	15.450	30.000	
2002/09/07	08:17:31	47.70991103	-127.78578473	2603.122	EVT	15.500	30.000	
2002/09/07	08:17:39	47.70991160	-127.78578520	2603.020	EVT	15.460	30.000	We are releasing the snorkel of the barrel sampler-
		just out of the reach						
2002/09/07	08:18:28	47.70991197	-127.78578847	2602.107	EVT	15.940	1.500	
2002/09/07	08:18:57	47.70991313	-127.78578705	2602.648	EVT	16.220	0.860	
2002/09/07	08:19:12	47.70991434	-127.78578673	2602.953	EVT	15.760	30.000	
2002/09/07	08:19:20	47.70991468	-127.78578631	2602.986	EVT	15.650	30.000	Released one pin on barrel sampler
2002/09/07	08:19:52	47.70991645	-127.78578485	2602.953	EVT	15.560	30.000	
2002/09/07	08:20:18	47.70991712	-127.78578295	2602.919	EVT	15.580	30.000	
2002/09/07	08:21:10	47.70991701	-127.78578411	2602.838	EVT	15.620	30.000	The intake hose has unraveled
2002/09/07	08:22:18	47.70991020	-127.78578740	2602.040	EVT	11.850	1.610	
2002/09/07	08:22:28	47.70990811	-127.78578631	2602.344	EVT	27.850	1.920	
2002/09/07	08:22:37	47.70991114	-127.78577652	2601.695	EVT	43.830	2.270	Picking up intake nozzle of barrel sampler
2002/09/07	08:24:42	47.70989771	-127.78576085	2601.214	EVT	41.730	2.330	Waiting for the sediment to clear
2002/09/07	08:31:14	47.70989300	-127.78575322	2601.167	EVT	41.410	2.300	Another coil of tubing just popped out of the drum
2002/09/07	08:31:15	47.70989246	-127.78575245	2601.282	EVT	41.600	2.220	
2002/09/07	08:31:50	47.70989104	-127.78574743	2602.364	EVT	41.860	0.910	Looks like the exit of probe 3 has cleared
		considerably						
2002/09/07	08:32:03	47.70989158	-127.78574593	2602.459	EVT	42.250	0.800	Waiting for the latest sediment cloud to disappear
2002/09/07	08:33:34	47.70988372	-127.78574384	2602.452	EVT	42.320	30.000	probe 3 exhaust - just before attach barrel sampler port
2002/09/07	08:33:40	47.70988330	-127.78574334	2602.385	EVT	42.310	29.660	
2002/09/07	08:33:56	47.70988205	-127.78574301	2602.412	EVT	42.300	30.000	The exiting fluid at probe 3 is clear again
2002/09/07	08:34:24	47.70987952	-127.78574347	2602.459	EVT	42.310	30.000	
2002/09/07	08:34:52	47.70987860	-127.78574274	2602.479	EVT	42.330	30.000	
2002/09/07	08:35:06	47.70987859	-127.78574123	2602.364	EVT	42.340	30.000	
2002/09/07	08:35:17	47.70987868	-127.78574031	2602.574	EVT	42.330	0.780	

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	08:35:26	47.70987850	-127.78574020	2602.324	EVT	42.320	0.780	
2002/09/07	08:35:37	47.70987856	-127.78574046	2602.418	EVT	42.310	0.780	
2002/09/07	08:35:43	47.70987852	-127.78574007	2602.439	EVT	42.310	30.000	Putting the barrel sampler intake on probe 3
2002/09/07	08:36:09	47.70987602	-127.78573892	2601.837	EVT	40.850	1.430	Probe sealed
2002/09/07	08:36:38	47.70986919	-127.78574797	2601.350	EVT	41.360	2.420	
2002/09/07	08:37:47	47.70988713	-127.78577581	2601.032	EVT	34.200	3.030	
2002/09/07	08:38:09	47.70989699	-127.78577729	2601.140	EVT	22.130	2.620	
2002/09/07	08:39:06	47.70989922	-127.78577028	2602.648	EVT	22.210	30.000	The elevator is tipping a bit
2002/09/07	08:40:02	47.70990045	-127.78576604	2602.844	EVT	22.190	30.000	
2002/09/07	08:40:19	47.70990083	-127.78576668	2602.655	EVT	22.200	30.000	
2002/09/07	08:40:21	47.70990075	-127.78576654	2602.621	EVT	22.180	30.000	We are waiting again for our mess to clear
2002/09/07	08:41:37	47.70990008	-127.78576624	2602.500	EVT	22.180	30.000	
2002/09/07	08:42:19	47.70990180	-127.78576453	2602.804	EVT	22.040	30.000	
2002/09/07	08:42:22	47.70990168	-127.78576456	2602.635	EVT	22.010	30.000	turning pump ON
2002/09/07	08:42:30	47.70990292	-127.78576422	2602.709	EVT	22.040	30.000	pump should be on now
2002/09/07	08:42:49	47.70990549	-127.78576325	2602.689	EVT	22.060	30.000	inspecting PVC output
2002/09/07	08:43:10	47.70991321	-127.78576035	2602.797	EVT	22.020	30.000	flow meter shows it's not on
2002/09/07	08:43:24	47.70991443	-127.78575955	2602.763	EVT	21.960	30.000	trying again to turn pump on
2002/09/07	08:43:41	47.70991471	-127.78575940	2602.675	EVT	21.990	30.000	moving the switch DOWN is ON
2002/09/07	08:44:32	47.70991460	-127.78575838	2602.669	EVT	21.950	30.000	
2002/09/07	08:44:35	47.70991462	-127.78575877	2602.621	EVT	21.930	30.000	We will try turning it to the OFF position
2002/09/07	08:44:39	47.70991468	-127.78575865	2602.642	EVT	21.950	30.000	then the ON position
2002/09/07	08:44:54	47.70991642	-127.78575875	2602.831	EVT	21.930	30.000	
2002/09/07	08:45:27	47.70991851	-127.78575970	2602.675	EVT	21.930	0.750	now checking to see if second try to turn on worked
2002/09/07	08:46:12	47.70992036	-127.78576005	2602.702	EVT	21.940	30.000	No apparent flow on flow meter of barrel sampler
2002/09/07	08:47:09	47.70992089	-127.78576106	2602.621	EVT	21.920	0.750	Turning the sampler off
2002/09/07	08:47:31	47.70992601	-127.78575781	2602.736	EVT	21.930	30.000	
2002/09/07	08:48:01	47.70993384	-127.78573412	2602.709	EVT	21.810	30.000	Tor thinks it is not pulling the plunger out all the way
	on the on/off switch							
2002/09/07	08:48:39	47.70995590	-127.78570087	2602.608	EVT	21.780	30.000	
2002/09/07	08:48:58	47.70996738	-127.78569503	2602.642	EVT	21.700	30.000	Trying to turn it on again
2002/09/07	08:49:27	47.70997378	-127.78568482	2602.587	EVT	21.740	30.000	Flow meter still isn't working
2002/09/07	08:50:37	47.70997920	-127.78568872	2602.303	EVT	18.760	0.870	Creating a mess again
2002/09/07	08:50:57	47.70997654	-127.78569349	2602.655	EVT	22.230	30.000	Looking at exit valve
2002/09/07	08:53:18	47.71002448	-127.78574659	2602.736	EVT	22.010	30.000	Trying on and off switch again
2002/09/07	08:53:43	47.71001841	-127.78579511	2602.750	EVT	22.000	30.000	Will has permission to break the handle!
2002/09/07	08:54:19	47.71004310	-127.78585061	2602.729	EVT	21.980	30.000	He pushed real hard and the plunger popped up more
	than before							
2002/09/07	08:54:31	47.71003789	-127.78584542	2602.750	EVT	21.980	30.000	Looking again at the exit valve
2002/09/07	08:55:17	47.71001264	-127.78582704	2602.757	EVT	21.980	30.000	Trying to figure out if the flow meter has moved at
	all							

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	08:55:29	47.71001263	-127.78582702	2602.777	EVT	22.010	30.000	Consensus is that it has not
2002/09/07	08:55:38	47.71001264	-127.78582703	2602.655	EVT	21.990	30.000	Going to try shutting off and turning on again
2002/09/07	08:56:36	47.70990199	-127.78575466	2602.702	EVT	21.960	30.000	Turning off
2002/09/07	08:58:24	47.70989288	-127.78577641	2602.682	EVT	21.970	30.000	Turning on again
2002/09/07	09:01:21	47.71002279	-127.78589706	2602.648	EVT	21.980	30.000	We are going to tap the flow meter
2002/09/07	09:01:38	47.71004692	-127.78590973	2602.581	EVT	21.970	30.000	The metal indicator may be stuck
2002/09/07	09:02:20	47.71010856	-127.78594898	2602.648	EVT	21.870	30.000	Tapping
2002/09/07	09:03:26	47.71017739	-127.78601206	2602.716	EVT	21.940	30.000	Tapping did not have any effect on the flow meter
2002/09/07	09:03:44	47.71020153	-127.78603720	2602.513	EVT	21.900	30.000	We are going to attach the Butterfield sampler to the output of the barrel sampler
2002/09/07	09:04:17	47.71022638	-127.78607193	2602.655	EVT	21.940	30.000	blank-text
2002/09/07	09:06:20	47.71033223	-127.78621142	2602.628	EVT	21.910	30.000	attaching the Butterfield sampler
2002/09/07	09:08:35	47.71053652	-127.78640597	2602.669	EVT	21.880	30.000	turning on the sampler flush pump
2002/09/07	09:09:24	47.71061969	-127.78648888	2602.648	EVT	21.880	30.000	the Butterfield temperature reading is -50
2002/09/07	09:11:30	47.71079378	-127.78668773	2602.702	EVT	21.880	30.000	something is wrong with the temperature sensor it now reads -29
2002/09/07	09:14:17	47.71102680	-127.78695475	2602.574	EVT	21.860	30.000	we are going to remove the Butterfield sampler
2002/09/07	09:14:31	47.71104529	-127.78697955	2602.533	EVT	21.850	30.000	the sampler had no effect on the visual flow meter
2002/09/07	09:15:40	47.71113749	-127.78708218	2602.513	EVT	21.850	30.000	the Butterfield temperature reading is now correct
2002/09/07	09:16:40	47.71122059	-127.78716654	2602.560	EVT	21.840	30.000	the odd temperature readings may have been due to the cable being stretched out all the way\
2002/09/07	09:17:25	47.71128737	-127.78723170	2602.472	EVT	21.850	30.000	inspecting the output
2002/09/07	09:18:35	47.71140154	-127.78731724	2602.574	EVT	21.840	30.000	
2002/09/07	09:18:47	47.71141743	-127.78733571	2602.540	EVT	21.840	30.000	snow over sampler
2002/09/07	09:20:42	47.71156143	-127.78747685	2602.587	EVT	21.840	30.000	
2002/09/07	09:24:57	47.71190849	-127.78780711	2602.486	EVT	21.790	30.000	is the meter showing flow?
2002/09/07	09:38:36	47.71186168	-127.78635618	2601.600	EVT	44.920	1.330	There does not appear to be any kinks in the hose
2002/09/07	09:39:12	47.71186228	-127.78635464	2601.532	EVT	44.880	1.310	zooming in on the hose right next to the connector
2002/09/07	09:40:22	47.71186343	-127.78635465	2601.465	EVT	45.130	1.380	closely inspecting the hose
2002/09/07	09:41:12	47.71186567	-127.78635396	2601.641	EVT	45.090	1.390	blank-text
2002/09/07	09:41:14	47.71186576	-127.78635378	2601.688	EVT	45.120	1.380	blank-text
2002/09/07	09:41:45	47.71186670	-127.78635341	2601.553	EVT	45.080	1.390	sediment filled water is seeping out of the base
2002/09/07	09:42:06	47.71186724	-127.78635378	2601.438	EVT	45.100	1.390	this suggests that the top may be plugged
2002/09/07	09:42:24	47.71186805	-127.78635349	2601.668	EVT	45.050	1.390	close up of the seeping water
2002/09/07	09:51:40	47.71188099	-127.78636960	2601.600	EVT	45.030	1.340	We have decided to take off the barrel sampler connector
2002/09/07	09:52:01	47.71188188	-127.78637046	2601.553	EVT	45.000	1.360	A big plume has appeared from the back of the stop plate- we think it's leaking
2002/09/07	09:53:29	47.71188282	-127.78637236	2601.262	EVT	45.010	1.340	removing the attachment to the barrel sampler
2002/09/07	09:53:43	47.71188364	-127.78637259	2601.471	EVT	45.010	1.350	flow is venting from the probe tip
2002/09/07	09:54:18	47.71188526	-127.78637474	2601.532	EVT	45.000	1.340	blank-text

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	09:54:24	47.71188548	-127.78637519	2601.451	EVT	45.030	1.380	There was also a delay after pulling of the connector
2002/09/07	09:54:41	47.71188624	-127.78637550	2601.526	EVT	45.020	1.350	Delay indicates that first flow is how much it takes to clean out the pipe
2002/09/07	09:54:43	47.71188627	-127.78637544	2601.526	EVT	45.020	1.340	there is no longer and leaking from the bottom of the probe
2002/09/07	09:54:50	47.71188672	-127.78637560	2601.478	EVT	45.020	1.320	Then after that the sediment at the bottom of the pipe
2002/09/07	09:55:16	47.71188633	-127.78637789	2601.032	EVT	44.620	1.750	Flow around stop plate decreased drastically when we pulled off the plug
2002/09/07	09:58:03	47.71191172	-127.78642004	2600.991	EVT	28.590	2.330	there is no longer any leaking from the bottom of the probe after they removed the connector to the barrel sampler
2002/09/07	09:58:41	47.71191188	-127.78642023	2601.052	EVT	28.620	2.090	we are now placing the connector to the barrel sampler into the basket on the elevator
2002/09/07	09:58:54	47.71191214	-127.78641974	2601.187	EVT	28.610	1.980	
2002/09/07	09:59:13	47.71191199	-127.78642001	2601.174	EVT	28.580	1.940	
2002/09/07	09:59:24	47.71191165	-127.78642013	2600.984	EVT	28.490	2.170	x
2002/09/07	09:59:31	47.71191210	-127.78642008	2601.154	EVT	28.520	1.980	
2002/09/07	09:59:43	47.71191191	-127.78642021	2601.005	EVT	28.530	2.160	
2002/09/07	10:01:20	47.71191097	-127.78641234	2601.512	EVT	28.120	1.340	Pump Test : put pump switch "off"- close off both sample bags- are bags full? IF SO, must have come from water column
2002/09/07	10:01:21	47.71191102	-127.78641236	2601.526	EVT	28.120	1.330	we will now turn off the pump and close both the valves
2002/09/07	10:02:07	47.71191082	-127.78641253	2601.492	EVT	28.120	1.320	nice yank- back a few
2002/09/07	10:02:23	47.71191063	-127.78641250	2601.566	EVT	28.210	1.320	
2002/09/07	10:02:28	47.71191064	-127.78641250	2601.512	EVT	28.320	1.330	
2002/09/07	10:02:55	47.71191061	-127.78641255	2601.539	EVT	28.340	1.320	turning off bags
2002/09/07	10:07:19	47.70987562	-127.78564122	2598.874	EVT	66.720	1.910	moving the pipe MAV from number 4 to probe number 3
2002/09/07	10:09:07	47.70987633	-127.78564099	2598.989	EVT	66.980	1.810	pipe MAV removed
2002/09/07	10:19:03	47.70990134	-127.78569154	2600.944	EVT	25.540	1.150	placing the MAV on probe number 3
2002/09/07	10:21:46	47.70990714	-127.78569138	2600.910	EVT	25.160	1.150	fluid is coming out of the exhaust of the MAV
2002/09/07	10:23:06	47.70990828	-127.78568440	2600.883	EVT	25.310	1.170	will be sticking the ICL probe in the MAV exhaust to take a temperature measurement
2002/09/07	10:23:09	47.70990815	-127.78568382	2600.788	EVT	25.280	1.170	blank-text
2002/09/07	10:23:20	47.70990744	-127.78568281	2600.849	EVT	25.320	1.170	blank-text
2002/09/07	10:23:26	47.70990723	-127.78568198	2600.924	EVT	25.310	1.170	MAV exhausting fluid
2002/09/07	10:23:39	47.70990697	-127.78568230	2600.876	EVT	25.340	1.170	waiting for fluid to clear from MAV exhaust
2002/09/07	10:23:54	47.70990722	-127.78568195	2600.815	EVT	25.310	1.170	MAV exhaust
2002/09/07	10:24:11	47.70990758	-127.78568010	2600.748	EVT	25.240	1.170	sticking ICL in MAV exhaust
2002/09/07	10:25:05	47.70990670	-127.78567888	2600.876	EVT	25.280	1.180	sticking ICL probe in MAV exhaust
2002/09/07	10:25:18	47.70990666	-127.78567817	2600.782	EVT	25.200	1.190	blank-text
2002/09/07	10:25:18	47.70990667	-127.78567820	2600.782	EVT	25.220	1.180	blank-text

Event log: LEXEN 2002

Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	10:27:24	47.70990152	-127.78568342	2600.809	EVT	25.360	1.170	taking ICL templ measurement in MAV exhaust
2002/09/07	10:27:37	47.70990110	-127.78568388	2600.809	EVT	25.330	1.170	13
2002/09/07	10:27:41	47.70990100	-127.78568392	2600.795	EVT	25.310	1.170	14
2002/09/07	10:27:44	47.70990103	-127.78568381	2600.971	EVT	25.320	1.170	15
2002/09/07	10:28:22	47.70990020	-127.78568436	2600.694	EVT	25.300	1.160	15.2
2002/09/07	10:31:02	47.70987842	-127.78568747	2600.193	EVT	24.220	1.730	now moving MAV to probe number 4
2002/09/07	10:36:52	47.70985713	-127.78562282	2599.226	EVT	30.140	1.120	picking up the broken leaf to put into the elevator
2002/09/07	10:54:02	47.70998792	-127.78572030	2599.260	EVT	164.910	0.900	removing weights from the Jason basket
2002/09/07	11:03:04	47.71000285	-127.78575613	2599.280	EVT	164.660	0.840	
2002/09/07	11:04:58	47.71000784	-127.78571412	2597.522	EVT	111.780	2.140	going to pick up thermal wubby... i mean blanky
2002/09/07	11:05:24	47.71000235	-127.78569327	2596.128	EVT	111.930	3.040	blank-text
2002/09/07	11:05:27	47.71000108	-127.78569167	2595.831	EVT	111.850	3.240	blank-text
2002/09/07	11:05:36	47.70999985	-127.78568916	2596.020	EVT	111.880	3.040	the thermal wubby
2002/09/07	11:09:26	47.71000477	-127.78566308	2596.629	EVT	138.700	1.510	blank-text
2002/09/07	11:09:44	47.71000384	-127.78566400	2596.514	EVT	138.700	1.520	picking up thermal wubby
2002/09/07	11:09:52	47.71000325	-127.78566483	2596.710	EVT	138.660	1.530	going to move the thermal wubby somewhere else
2002/09/07	11:09:52	47.71000325	-127.78566483	2596.710	EVT	138.660	1.530	going to move the thermal wubby somewhere else
2002/09/07	11:11:54	47.71003430	-127.78564198	2593.923	EVT	356.060	2.370	blank-text
2002/09/07	11:12:13	47.71005936	-127.78564488	2593.470	EVT	357.970	2.660	moving the thermal wubby... isn't this a great shot?
2002/09/07	11:13:35	47.71006833	-127.78565375	2594.201	EVT	358.170	1.610	blank-text
2002/09/07	11:13:46	47.71006819	-127.78565383	2594.322	EVT	358.280	1.550	thermal wubby is down
2002/09/07	11:13:56	47.71006800	-127.78565381	2594.383	EVT	358.320	1.550	letting go of the thermal wubby
2002/09/07	11:15:47	47.71006766	-127.78565349	2594.288	EVT	358.140	1.540	picking up ICL
2002/09/07	11:16:24	47.71006783	-127.78565336	2594.221	EVT	358.120	1.580	going to take temp of sediment next to thermal wubby
2002/09/07	11:16:43	47.71006779	-127.78565335	2594.282	EVT	358.160	1.560	the new thermal wubby location is about 9 meters North of the old one
2002/09/07	11:19:23	47.71006208	-127.78565262	2594.525	EVT	358.110	1.430	ICL Temp 2.1
2002/09/07	11:21:20	47.71006648	-127.78565033	2594.302	EVT	357.840	1.530	thermal probing
2002/09/07	11:23:35	47.71006737	-127.78563676	2594.153	EVT	334.720	1.130	more thermal probing
2002/09/07	11:23:53	47.71006734	-127.78563577	2594.180	EVT	334.530	1.190	thin sediment according to pilot Jim
2002/09/07	11:24:10	47.71006718	-127.78563492	2594.058	EVT	334.590	1.110	ICL TEMP 2.4
2002/09/07	11:25:27	47.71006429	-127.78563212	2594.228	EVT	334.700	1.090	dropped the thermal probe
2002/09/07	11:27:02	47.71005766	-127.78563080	2594.228	EVT	334.760	1.100	fishing for the dropped probe
2002/09/07	11:30:20	47.71005122	-127.78563320	2594.532	EVT	352.190	1.140	picking up the dropped probe
2002/09/07	11:31:46	47.71004685	-127.78563436	2594.545	EVT	352.020	1.030	putting away the ICL probe
2002/09/07	11:33:57	47.71004348	-127.78563620	2594.620	EVT	352.190	1.030	going to go huntin rocks now
2002/09/07	11:36:28	47.71003796	-127.78564361	2594.647	EVT	352.220	1.050	going for a rock
2002/09/07	11:37:48	47.71003223	-127.78564942	2594.397	EVT	352.170	1.130	nice rock
2002/09/07	11:38:00	47.71003112	-127.78564996	2594.491	EVT	352.290	1.120	pics of rock
2002/09/07	11:38:06	47.71003061	-127.78565052	2594.600	EVT	352.270	1.110	pics of rock

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	11:38:17	47.71002965	-127.78565138	2594.539	EVT	352.260	1.130	pics of rock
2002/09/07	11:38:59	47.71002615	-127.78565360	2594.424	EVT	352.230	1.070	pics of rock - closeup
2002/09/07	11:39:12	47.71002609	-127.78565439	2594.600	EVT	352.250	1.060	pics of rock - another closeup
2002/09/07	11:39:22	47.71002626	-127.78565431	2594.485	EVT	352.210	1.060	Paul thinks we should call that a rock
2002/09/07	11:39:51	47.71002483	-127.78565665	2594.403	EVT	352.250	1.080	nice rock for Cathy
2002/09/07	11:40:04	47.71002479	-127.78565758	2594.518	EVT	352.270	1.040	going to bring rock to elevator - rock boxes are on
	elevator							
2002/09/07	11:40:04	47.71002479	-127.78565758	2594.518	EVT	352.270	1.040	going to bring rock to elevator - rock boxes are on
	elevator							
2002/09/07	11:42:36	47.71002271	-127.78566662	2592.685	EVT	350.430	2.770	changing tapes
2002/09/07	11:47:49	47.70995353	-127.78576430	2598.698	EVT	155.300	0.920	putting rock in elevator
2002/09/07	11:49:38	47.70995188	-127.78576357	2598.732	EVT	155.980	0.890	putting rock in elevator
2002/09/07	11:49:48	47.70995205	-127.78576335	2598.651	EVT	156.250	0.860	settling rock in rock box
2002/09/07	11:52:02	47.70995403	-127.78576517	2598.780	EVT	156.110	0.850	going to find another small rock
2002/09/07	11:55:32	47.70986933	-127.78575493	2597.028	EVT	72.250	5.460	heading back for another rock
2002/09/07	11:57:52	47.70986335	-127.78569422	2597.359	EVT	47.750	2.610	looking for a good spot to pick up a rock from
2002/09/07	11:58:24	47.70986101	-127.78568486	2598.272	EVT	47.630	1.430	prepositions are not good to end a sentence with
2002/09/07	11:58:40	47.70986118	-127.78568641	2598.198	EVT	47.710	1.570	core nipple cap in frame
2002/09/07	12:02:32	47.70986020	-127.78568717	2598.103	EVT	61.080	1.910	a small rock
2002/09/07	12:02:50	47.70986012	-127.78568698	2597.975	EVT	61.130	1.980	is it actually a rock?
2002/09/07	12:02:59	47.70986012	-127.78568685	2597.954	EVT	60.850	1.900	nope... dropping it to pick up another
2002/09/07	12:03:14	47.70986010	-127.78568660	2597.968	EVT	60.630	1.930	going after another... falls apart into pieces
2002/09/07	12:03:47	47.70985983	-127.78568619	2597.900	EVT	59.510	1.920	another try
2002/09/07	12:03:59	47.70986004	-127.78568599	2597.941	EVT	58.460	1.920	another rock that isn't
2002/09/07	12:05:34	47.70985319	-127.78569549	2595.310	EVT	29.770	4.910	going to try another spot
2002/09/07	12:06:48	47.70989472	-127.78563519	2596.148	EVT	47.810	1.400	here's a candidate
2002/09/07	12:08:07	47.70989547	-127.78563169	2596.534	EVT	48.080	1.150	rock in claw... doesn't look like a real rock
2002/09/07	12:08:19	47.70989540	-127.78563180	2596.635	EVT	48.100	1.120	forget that un-rock
2002/09/07	12:09:39	47.70990700	-127.78562230	2594.417	EVT	11.490	2.880	going to try another spot again
2002/09/07	12:10:49	47.70998086	-127.78560785	2593.619	EVT	14.450	1.860	blank-text
2002/09/07	12:10:53	47.70998475	-127.78560171	2593.903	EVT	18.580	1.510	blank-text
2002/09/07	12:10:59	47.70998806	-127.78559859	2593.747	EVT	6.600	1.510	octo guarding eggs?
2002/09/07	12:11:05	47.70999050	-127.78559317	2593.720	EVT	10.010	1.600	what is this?
2002/09/07	12:11:21	47.70999093	-127.78559753	2594.113	EVT	8.510	1.360	interesting rock formation?
2002/09/07	12:11:41	47.70998949	-127.78559927	2593.964	EVT	9.040	1.420	more of the octo
2002/09/07	12:11:52	47.70998940	-127.78559924	2594.065	EVT	9.190	1.350	landing near octopus
2002/09/07	12:11:59	47.70998967	-127.78559913	2594.079	EVT	9.220	1.360	a little zoom
2002/09/07	12:12:03	47.70998947	-127.78559931	2593.876	EVT	9.180	1.430	blank-text
2002/09/07	12:12:07	47.70998936	-127.78559915	2593.923	EVT	9.280	1.400	blank-text
2002/09/07	12:12:10	47.70998936	-127.78559948	2593.876	EVT	9.260	1.430	blank-text
2002/09/07	12:12:18	47.70998944	-127.78559928	2593.998	EVT	9.440	1.370	blank-text

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	12:12:34	47.70998939	-127.78559905	2593.977	EVT	9.280	1.380	nice octopus
2002/09/07	12:14:16	47.70999892	-127.78562657	2593.781	EVT	3.330	1.310	looking for rocks again
2002/09/07	12:14:31	47.71000124	-127.78563913	2593.348	EVT	341.510	1.650	trying to find a good spot with likely rock candidates
2002/09/07	12:15:26	47.70999974	-127.78567394	2593.382	EVT	6.360	2.410	fish
2002/09/07	12:16:37	47.70996776	-127.78567188	2594.633	EVT	6.540	1.660	going over to South side of thermal wubby - where it
was placed before - still looking for rock								
2002/09/07	12:18:52	47.70995403	-127.78567135	2595.303	EVT	6.310	1.430	set down to try for rocks
2002/09/07	12:20:16	47.70993012	-127.78566981	2592.970	EVT	327.940	3.680	backed off... still looking around for rocks
2002/09/07	12:21:05	47.70990362	-127.78569564	2595.377	EVT	324.500	1.790	cruisin by the elevator looking for rocks
2002/09/07	12:22:21	47.70988308	-127.78579360	2597.643	EVT	69.780	5.090	the bent probe again
2002/09/07	12:23:43	47.70990431	-127.78571831	2595.695	EVT	30.360	3.710	looking for rocks around this wall?
2002/09/07	12:25:49	47.70994367	-127.78568994	2595.445	EVT	27.330	2.230	still rock hunting
2002/09/07	12:29:16	47.70990240	-127.78568843	2595.540	EVT	357.500	1.900	base of wall near elevator... looking for rocks here
2002/09/07	12:30:32	47.70991258	-127.78569803	2597.298	EVT	11.910	1.030	touchdown... going to go for this ledge to see if we
can find a good rock for Cathy								
2002/09/07	12:32:58	47.70991384	-127.78569492	2597.028	EVT	13.210	1.290	going for rock
2002/09/07	12:33:11	47.70991375	-127.78569501	2596.980	EVT	13.180	1.300	blank-text
2002/09/07	12:33:37	47.70991359	-127.78569543	2597.048	EVT	13.120	1.320	all crumbly
2002/09/07	12:34:16	47.70991364	-127.78569502	2596.980	EVT	13.160	1.320	blank-text
2002/09/07	12:34:30	47.70991344	-127.78569518	2597.001	EVT	13.030	1.370	trying to grab a piece of this edge
2002/09/07	12:36:44	47.70991336	-127.78569973	2596.189	EVT	12.340	1.610	going to try to find another spot again...
2002/09/07	12:38:02	47.70989070	-127.78572113	2596.054	EVT	334.090	1.920	near the elevator... still looking for a new spot
2002/09/07	12:48:07	47.70993418	-127.78571425	2594.931	EVT	2.980	2.380	resuming the rock search after a short break
2002/09/07	12:50:14	47.70994302	-127.78569888	2594.397	EVT	2.870	2.170	more rock hunting... fish on bottom
2002/09/07	12:53:36	47.70999491	-127.78567101	2592.733	EVT	2.370	2.260	coming up on thermal blanket
2002/09/07	12:54:07	47.71001225	-127.78566941	2591.461	EVT	3.740	3.300	going to try to find a rock near where the first one
came from								
2002/09/07	12:55:39	47.71000241	-127.78567069	2591.272	EVT	2.810	3.580	waiting for medea to catch up
2002/09/07	12:58:18	47.71002130	-127.78566882	2591.502	EVT	359.890	2.860	off we go again
2002/09/07	13:02:30	47.71013948	-127.78562694	2591.766	EVT	359.660	1.260	not very promising for rocks here
2002/09/07	13:03:20	47.71015557	-127.78564088	2591.637	EVT	359.540	1.200	some kinda small outcrop here
2002/09/07	13:04:52	47.71019525	-127.78564527	2591.035	EVT	308.700	1.270	heading off to the left looking for rocks
2002/09/07	13:05:02	47.71019518	-127.78563915	2590.859	EVT	270.620	1.430	maybe another ledge
2002/09/07	13:05:14	47.71019656	-127.78564225	2590.927	EVT	270.130	1.200	but there's a big oxtopus
2002/09/07	13:06:53	47.71018746	-127.78568407	2590.866	EVT	327.860	1.160	some possible rocks here
2002/09/07	13:07:16	47.71019217	-127.78568621	2591.042	EVT	327.880	0.880	going to land and check out this area for rocks
2002/09/07	13:08:51	47.71019072	-127.78568836	2591.164	EVT	328.110	0.890	trying for this one here
2002/09/07	13:09:01	47.71019064	-127.78568827	2591.211	EVT	327.990	0.840	blank-text
2002/09/07	13:09:17	47.71019125	-127.78568875	2591.319	EVT	327.780	0.800	blank-text
2002/09/07	13:09:35	47.71019148	-127.78568909	2591.164	EVT	327.770	0.800	gpt it... lets take a closer look
2002/09/07	13:09:58	47.71019218	-127.78568894	2591.177	EVT	327.760	0.800	going to go ahead and take this one

Event log: LEXEN 2002

Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	13:10:13	47.71019255	-127.78568882	2591.164	EVT	327.770	0.800	blank-text
2002/09/07	13:10:27	47.71019314	-127.78568854	2591.231	EVT	327.750	0.800	rock? looks like it has a manganese crust
2002/09/07	13:11:46	47.71019202	-127.78568834	2591.116	EVT	327.730	0.840	word is this might be a rock under manganese crust
2002/09/07	13:13:44	47.71019022	-127.78568747	2591.150	EVT	327.610	0.920	going to put rock on basket and look a bit more... not
sure if we'll take this one yet								
2002/09/07	13:16:54	47.71018790	-127.78569014	2591.089	EVT	327.790	0.880	dropped it... fell like a rock
2002/09/07	13:17:09	47.71018806	-127.78568961	2591.096	EVT	327.810	0.900	going to pick it up again
2002/09/07	13:17:18	47.71018817	-127.78568944	2591.157	EVT	327.800	0.890	Cathy says she'll take it
2002/09/07	13:17:41	47.71018856	-127.78568916	2591.116	EVT	327.820	0.880	spider crab... pretty big
2002/09/07	13:18:31	47.71018942	-127.78568828	2591.116	EVT	327.800	0.880	going to bring this rock over to the elevator
2002/09/07	13:18:55	47.71018886	-127.78568828	2591.130	EVT	327.790	0.920	rock came from about 25 meters from summit
2002/09/07	13:20:09	47.71019001	-127.78568750	2590.081	EVT	329.320	1.790	we are 25 meters South of target 17
2002/09/07	13:21:55	47.71019754	-127.78569204	2589.601	EVT	300.090	2.140	are these markers or instruments?
2002/09/07	13:23:21	47.71022800	-127.78579178	2589.723	EVT	300.150	1.230	still looking for other potential rocks
2002/09/07	13:23:50	47.71023810	-127.78580032	2589.757	EVT	300.100	1.100	we are near the black spot marker... bullseye
2002/09/07	13:24:03	47.71023841	-127.78580306	2589.615	EVT	300.270	1.190	taking a look at this outcrop for potential rocks
2002/09/07	13:25:04	47.71025141	-127.78582281	2589.026	EVT	304.350	1.570	king crab of the hill
2002/09/07	13:25:43	47.71024997	-127.78582395	2588.816	EVT	304.030	1.770	going to mark this spot for later rock collections
2002/09/07	13:26:39	47.71024965	-127.78582339	2587.322	EVT	304.250	3.450	popping up to make a target... number 29
2002/09/07	13:32:27	47.71008927	-127.78571698	2589.838	EVT	164.900	2.550	theres the thermal wubby again
2002/09/07	13:32:38	47.71008304	-127.78569907	2589.770	EVT	164.770	2.650	heading for the elevator
2002/09/07	13:35:01	47.70994114	-127.78580189	2595.486	EVT	129.270	3.710	at elevator to drop off Cathy's rock
2002/09/07	13:37:55	47.70991068	-127.78579549	2597.697	EVT	70.100	3.370	blank-text
2002/09/07	13:38:08	47.70991067	-127.78579562	2597.677	EVT	70.320	3.280	putting rock in red crate
2002/09/07	13:38:33	47.70991054	-127.78579562	2597.630	EVT	70.720	3.210	dropped in the crate... looks heavy
2002/09/07	13:38:40	47.70991046	-127.78579565	2597.691	EVT	70.490	3.270	deepsea rock in corner pocket
2002/09/07	13:40:19	47.70990017	-127.78580615	2597.603	EVT	68.570	3.640	we are off to probe number 4 now - end of rock
sampling operation								
2002/09/07	13:44:22	47.70986380	-127.78569578	2596.169	EVT	83.360	2.460	putting the UW temp probe here and then fluid
sampler to see what the sensors say								
2002/09/07	13:46:55	47.70985460	-127.78568882	2596.250	EVT	46.270	1.990	repositioning so we can do both UW temp and
butterfield sampler								
2002/09/07	13:53:47	47.70985399	-127.78568246	2596.649	EVT	44.340	1.550	working on picking up the temp probe
2002/09/07	13:55:27	47.70985395	-127.78568657	2596.615	EVT	44.250	1.580	inserting probe
2002/09/07	13:55:53	47.70985405	-127.78568559	2596.514	EVT	44.220	1.590	taking a look at the nozzle to see if it's still flowing
2002/09/07	13:56:07	47.70985409	-127.78568472	2596.507	EVT	44.200	1.590	there's still some shimmering water
2002/09/07	13:57:49	47.70985400	-127.78568561	2596.534	EVT	44.090	1.580	temp probing
2002/09/07	13:58:00	47.70985395	-127.78568613	2596.629	EVT	44.050	1.580	can still see some shimmering water coming out
2002/09/07	13:58:12	47.70985398	-127.78568617	2596.561	EVT	44.040	1.580	inserted - we'll measure for ten minutes
2002/09/07	13:58:12	47.70985398	-127.78568617	2596.561	EVT	44.040	1.580	inserted - we'll measure for ten minutes
2002/09/07	14:08:53	47.70985085	-127.78569127	2596.324	EVT	43.690	1.580	taking probe out

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	14:09:04	47.70985078	-127.78569144	2596.473	EVT	43.700	1.590	replacing probe, getting butterfield nozzle out
2002/09/07	14:14:11	47.70985151	-127.78568986	2596.345	EVT	44.270	1.750	butterfield nozzle in manip
2002/09/07	14:15:31	47.70985199	-127.78569073	2596.446	EVT	43.870	1.550	sample nozzle on probe
2002/09/07	14:15:47	47.70985192	-127.78569050	2596.487	EVT	43.860	1.600	getting temp reading
2002/09/07	14:16:30	47.70985144	-127.78568687	2596.473	EVT	43.940	1.590	zooming in to check that nozzle is on all the way
2002/09/07	14:16:39	47.70985119	-127.78568600	2596.534	EVT	43.950	1.600	temp 12.6 on butterfield sampler
2002/09/07	14:17:18	47.70985088	-127.78568304	2596.500	EVT	44.140	1.570	we'll measure temp and pump fluid through for about
	5 minutes							
2002/09/07	14:17:30	47.70985099	-127.78568320	2596.446	EVT	44.140	1.570	will take a look at the exhaust
2002/09/07	14:17:49	47.70985100	-127.78568301	2596.446	EVT	44.150	1.580	butterfield sampler exhaust with flush pump on
2002/09/07	14:18:04	47.70985088	-127.78568279	2596.473	EVT	44.160	1.580	T2 on butterfield sampler starting to warm up
2002/09/07	14:19:31	47.70984931	-127.78568395	2596.588	EVT	44.230	1.580	exhaust
2002/09/07	14:23:44	47.70984369	-127.78568373	2596.466	EVT	44.380	1.580	temp is 16 on butterfield sampler T1 and 11.5 on T2
2002/09/07	14:25:46	47.70984102	-127.78567964	2596.419	EVT	44.440	1.590	butterfield sampler max T1 max 16.1 T2 max 11.6
2002/09/07	14:25:56	47.70984079	-127.78567889	2596.453	EVT	44.450	1.580	putting butterfield sampler away now
2002/09/07	14:29:10	47.70983897	-127.78568037	2596.588	EVT	44.350	1.610	replacing sample nozzle
2002/09/07	14:31:56	47.70983946	-127.78568165	2596.412	EVT	45.780	1.630	taking a look at the nozzle before we leave
2002/09/07	14:32:07	47.70983942	-127.78568190	2596.500	EVT	45.800	1.630	still flowing.. a little stronger than before probing
2002/09/07	14:32:24	47.70983916	-127.78568241	2596.554	EVT	45.800	1.640	Dave thinks it helps to pull to induce flow - with
	sampler flush pump							
2002/09/07	14:32:42	47.70983918	-127.78568263	2596.385	EVT	45.810	1.640	going to go wait for Lang sampler to head down
2002/09/07	14:47:23	47.71012639	-127.78672902	2576.465	EVT	285.510	30.000	ship is currently positioned over the elevator
2002/09/07	15:01:37	47.71050008	-127.78718350	2566.406	EVT	353.850	30.000	rov rov is now 75 meters from elevator
2002/09/07	15:07:17	47.71047776	-127.78738358	2568.098	EVT	281.380	30.000	engineering tests going on right now
2002/09/07	15:08:06	47.71046523	-127.78737384	2566.122	EVT	284.400	30.000	waiting for Lang sampler launch
2002/09/07	15:15:12	47.71060710	-127.78741425	2567.502	EVT	292.460	30.000	b
2002/09/07	15:16:07	47.71060685	-127.78741226	2567.827	EVT	291.170	30.000	brasket inventory going on right now
2002/09/07	15:28:44	47.71054958	-127.78732444	2600.268	EVT	359.960	11.030	on station to receive the Lang sampler
2002/09/07	15:29:26	47.71054935	-127.78732482	2599.409	EVT	0.050	11.580	they are ready in the main lab for deployment of the
	Lang sampler							
2002/09/07	15:44:48	47.71054972	-127.78732494	2601.248	EVT	0.040	10.040	lang sampler is in the water
2002/09/07	15:58:43	47.71059467	-127.78732489	2601.384	EVT	0.180	9.840	inute
2002/09/07	15:59:18	47.71059454	-127.78732501	2601.248	EVT	0.170	9.900	Lang sampler at 700 m descending at 50
	meters/minute							
2002/09/07	16:24:38	47.71059350	-127.78732502	2601.147	EVT	359.740	10.730	600 meters to go, 12 minutes
2002/09/07	16:49:03	47.71059458	-127.78732461	2601.133	EVT	127.340	11.940	Lang sampler on bottom
2002/09/07	16:50:41	47.71059412	-127.78732487	2601.221	EVT	127.560	11.750	we don't have good nav to find the lang sampler
2002/09/07	16:55:06	47.71059436	-127.78732503	2601.133	EVT	126.780	12.070	plan is to find the Lang sampler, move it to the probe,
	then release the elevator							
2002/09/07	17:21:01	47.71007381	-127.78495147	2634.624	EVT	297.700	7.420	sampler found!
2002/09/07	17:21:11	47.71007121	-127.78495238	2634.651	EVT	293.360	7.620	

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	17:21:36	47.71006973	-127.78498724	2634.536	EVT	293.300	5.570	
2002/09/07	17:39:54	47.71010284	-127.78508679	2626.346	EVT	275.170	10.400	
2002/09/07	17:44:38	47.71024612	-127.78543697	2610.744	EVT	295.450	13.010	
2002/09/07	17:46:43	47.71030659	-127.78562414	2604.623	EVT	295.240	10.930	In transit with Lang sampler
2002/09/07	17:47:23	47.71032410	-127.78567914	2604.934	EVT	295.790	7.060	
2002/09/07	17:47:39	47.71032942	-127.78569612	2604.583	EVT	298.280	7.540	
2002/09/07	17:48:00	47.71033255	-127.78570342	2602.161	EVT	296.260	9.000	
2002/09/07	17:48:51	47.71033298	-127.78570606	2597.197	EVT	295.750	14.710	blank-text
2002/09/07	17:49:26	47.71034879	-127.78575718	2597.264	EVT	295.570	11.150	
2002/09/07	17:53:19	47.71038241	-127.78586204	2593.213	EVT	295.590	8.860	Lang Sampler arrived at Depot - Elevator, MAVS,etc
2002/09/07	17:54:05	47.71039747	-127.78590779	2593.125	EVT	300.850	7.060	
2002/09/07	17:58:56	47.71044426	-127.78600083	2596.196	EVT	228.610	1.680	
2002/09/07	17:59:58	47.71045710	-127.78597733	2594.072	EVT	228.610	2.910	Lang sampler on the bottom
2002/09/07	18:00:19	47.71048270	-127.78592672	2597.224	EVT	236.310	30.000	tst
2002/09/07	18:00:50	47.71045391	-127.78599243	2596.669	EVT	355.530	4.640	lang sampler
2002/09/07	18:00:59	47.71045017	-127.78600215	2596.412	EVT	355.320	5.270	both samplers
2002/09/07	18:01:32	47.71045111	-127.78599788	2596.162	EVT	355.670	5.240	both
2002/09/07	18:02:20	47.71045115	-127.78599826	2596.500	EVT	355.590	5.060	Gear Storage depot - 2600 m
2002/09/07	18:02:40	47.71045119	-127.78599793	2596.365	EVT	355.680	5.190	Target TXT
2002/09/07	18:02:52	47.71045127	-127.78599812	2596.243	EVT	355.500	5.630	
2002/09/07	18:03:13	47.71045116	-127.78599794	2596.324	EVT	355.580	5.260	
2002/09/07	18:07:12	47.70987307	-127.78573909	2596.351	EVT	355.720	5.250	
2002/09/07	18:09:01	47.70989341	-127.78576838	2598.482	EVT	5.400	3.850	probe 3- closing in
2002/09/07	18:09:40	47.70991161	-127.78577480	2599.003	EVT	21.220	3.560	
2002/09/07	18:10:10	47.70991996	-127.78577053	2599.300	EVT	39.490	3.240	
2002/09/07	18:10:15	47.70991945	-127.78577076	2599.070	EVT	39.260	3.650	mav
2002/09/07	18:10:46	47.70992181	-127.78575351	2600.051	EVT	65.990	2.200	
2002/09/07	18:14:41	47.70992518	-127.78575256	2600.268	EVT	66.220	1.640	Pulling MAV off Probe 3.
2002/09/07	18:15:38	47.70992515	-127.78575282	2600.383	EVT	66.230	1.640	Lifting MAVS back on Jason
2002/09/07	18:15:47	47.70992513	-127.78575259	2600.349	EVT	66.210	1.630	
2002/09/07	18:21:51	47.70987297	-127.78580285	2598.651	EVT	34.890	5.700	Lang Sampler or Abssal Beehive?
2002/09/07	18:22:05	47.70986592	-127.78579480	2598.685	EVT	34.810	5.640	
2002/09/07	18:24:05	47.70987044	-127.78567692	2598.597	EVT	37.930	1.720	
2002/09/07	18:24:17	47.70987934	-127.78567137	2597.961	EVT	2.270	1.770	head 4
2002/09/07	18:24:58	47.70988318	-127.78566679	2598.374	EVT	347.620	1.030	probe head]
2002/09/07	18:26:51	47.70988343	-127.78566850	2598.577	EVT	347.630	1.060	
2002/09/07	18:28:07	47.70988294	-127.78566696	2598.529	EVT	347.630	1.070	
2002/09/07	18:28:18	47.70988271	-127.78566706	2598.523	EVT	347.560	1.060	
2002/09/07	18:28:26	47.70988244	-127.78566704	2598.394	EVT	347.620	1.100	
2002/09/07	18:29:29	47.70987925	-127.78566688	2598.523	EVT	347.580	1.110	MAV going on...
2002/09/07	18:29:49	47.70987863	-127.78566843	2598.455	EVT	347.490	1.120	\

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	18:30:04	47.70987858	-127.78566744	2598.408	EVT	347.510	1.120	entry..
2002/09/07	18:30:14	47.70987824	-127.78566745	2598.509	EVT	347.390	1.220	
2002/09/07	18:30:20	47.70987816	-127.78566800	2598.428	EVT	347.610	1.150	
2002/09/07	18:30:25	47.70987795	-127.78566781	2598.387	EVT	347.540	1.110	
2002/09/07	18:30:31	47.70987827	-127.78566788	2598.482	EVT	347.590	1.110	
2002/09/07	18:30:40	47.70987825	-127.78566740	2598.455	EVT	347.550	1.140	
2002/09/07	18:31:08	47.70987779	-127.78566550	2598.536	EVT	347.590	1.120	
2002/09/07	18:32:16	47.70987818	-127.78566938	2598.536	EVT	343.420	1.040	Nice view probehead 4
2002/09/07	18:32:40	47.70987805	-127.78566967	2598.543	EVT	343.370	0.960	
2002/09/07	18:33:34	47.70987593	-127.78567510	2598.597	EVT	342.720	1.160	Hose attached ! MAVS
2002/09/07	18:34:11	47.70987565	-127.78567642	2598.834	EVT	343.700	0.910	
2002/09/07	18:36:09	47.70988944	-127.78570658	2597.183	EVT	341.230	2.420	was q in tcp port
2002/09/07	18:37:51	47.70989222	-127.78572193	2597.292	EVT	10.540	3.720	Great beehive view
2002/09/07	18:38:53	47.70990553	-127.78573916	2597.576	EVT	26.920	4.070	
2002/09/07	18:40:47	47.70990379	-127.78573506	2597.988	EVT	65.680	4.010	Beehive- Corer- nice view of Mud in basket
2002/09/07	18:42:27	47.70990353	-127.78573506	2598.056	EVT	65.720	3.930	attempting to clear the mud
2002/09/07	18:45:26	47.70989657	-127.78575801	2597.244	EVT	65.630	5.580	preparing to deploy
2002/09/07	18:49:20	47.70989662	-127.78576105	2597.806	EVT	26.660	4.740	lang sampler
2002/09/07	18:50:36	47.70996963	-127.78580380	2597.305	EVT	47.050	5.060	probe insite
2002/09/07	18:51:06	47.71000427	-127.78577041	2597.264	EVT	48.000	2.900	octopus
2002/09/07	18:51:52	47.71002610	-127.78574357	2596.135	EVT	48.080	2.200	thermalblanketinsight
2002/09/07	18:52:51	47.71004319	-127.78572245	2595.087	EVT	49.280	2.150	thermal blanket
2002/09/07	18:57:03	47.71005155	-127.78568550	2595.601	EVT	51.750	0.970	Releasing blanket
2002/09/07	18:57:07	47.71005111	-127.78568393	2595.479	EVT	51.750	0.970	blank-text
2002/09/07	18:57:53	47.71005521	-127.78569706	2595.553	EVT	51.510	0.990	release
2002/09/07	19:11:34	47.71011712	-127.78576177	2595.574	EVT	51.370	0.990	Thermal blanket is on Jason's front now
2002/09/07	19:13:09	47.71011610	-127.78575607	2595.716	EVT	51.390	0.950	Pulling in the front tray with the thermal blanket
2002/09/07	19:17:29	47.71010628	-127.78573780	2594.579	EVT	201.140	1.300	Moving to the Lang sampler at Probe 3
2002/09/07	19:20:22	47.70991083	-127.78583923	2600.044	EVT	54.900	5.480	Lang sampler in view
2002/09/07	19:22:41	47.70994794	-127.78580623	2599.983	EVT	54.870	3.910	Probe 3 in view
2002/09/07	19:23:31	47.70995175	-127.78578980	2598.644	EVT	55.150	4.540	Lang sampler
2002/09/07	19:23:45	47.70995240	-127.78578914	2598.976	EVT	54.570	4.080	Big mound of dirt in intake basket
2002/09/07	19:27:02	47.70995425	-127.78575668	2598.360	EVT	1.520	2.930	Lang sampler in view
2002/09/07	19:27:16	47.70995397	-127.78575746	2598.266	EVT	1.250	2.830	Going to release the intake tubing
2002/09/07	19:27:51	47.70995430	-127.78575744	2598.367	EVT	1.280	2.760	Releasing the intake tubing
2002/09/07	19:29:17	47.70995761	-127.78575477	2598.184	EVT	1.260	2.670	The intake tube has been released
2002/09/07	19:30:23	47.70995369	-127.78575969	2598.462	EVT	1.350	2.780	All the tubing from the intake valve has been released
2002/09/07	19:32:30	47.70995599	-127.78576959	2599.226	EVT	12.550	2.580	Trying to clear the milk crate with the intake probe in
	it							
2002/09/07	19:32:50	47.70995603	-127.78576980	2598.969	EVT	12.600	2.680	Shaking the intake, lots of mud
2002/09/07	19:34:14	47.70995506	-127.78576991	2599.124	EVT	12.690	2.820	Fiddling with the mud bucket

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	19:34:48	47.70995440	-127.78577004	2599.185	EVT	12.770	2.760	Attempting to pull out the intake probe\
2002/09/07	19:36:50	47.70995502	-127.78577061	2599.219	EVT	11.390	2.780	Looks like we have a hold of the intake probe
2002/09/07	19:37:14	47.70995432	-127.78577018	2599.239	EVT	12.570	2.870	Shaking it and letting go again
2002/09/07	19:38:38	47.70995455	-127.78577002	2598.908	EVT	14.010	2.930	Knocking rocks out of the basket
2002/09/07	19:39:27	47.70995419	-127.78577020	2599.064	EVT	12.500	2.830	Trying to pull the intake valve again
2002/09/07	19:41:45	47.70995230	-127.78577082	2599.077	EVT	12.540	2.970	We have successfully extracted the intake valve of the probe from the mud crate
2002/09/07	19:41:57	47.70995258	-127.78577049	2599.165	EVT	12.460	2.770	Shaking out the intake to get rid of all the mud
2002/09/07	19:42:37	47.70994545	-127.78577320	2599.003	EVT	12.660	3.090	Dropped the intake probe
2002/09/07	19:45:53	47.70992491	-127.78576832	2600.667	EVT	345.190	30.000	Picking up the intake probe and cleaning out again
2002/09/07	19:47:30	47.70995720	-127.78581222	2600.795	EVT	8.300	1.540	positioning to insert the lang's sampler intake into probe 3
2002/09/07	19:48:27	47.70995926	-127.78581961	2602.046	EVT	6.500	30.000	Letting the sediment clear before putting the probe in
2002/09/07	19:50:52	47.70995924	-127.78582493	2602.100	EVT	6.550	30.000	Continuing to wait for the sediment to clear
2002/09/07	19:54:08	47.70989206	-127.78573663	2602.100	EVT	6.670	30.000	positioning the Lang sample intake
2002/09/07	19:54:20	47.70989267	-127.78573748	2601.985	EVT	6.700	30.000	blank-text
2002/09/07	19:54:31	47.70989195	-127.78573605	2602.121	EVT	6.690	30.000	inspecting the Lang sample intake
2002/09/07	19:54:45	47.70989119	-127.78573491	2602.073	EVT	6.710	30.000	looks clean and free from mud inside
2002/09/07	19:54:46	47.70989119	-127.78573491	2602.073	EVT	6.710	30.000	blank-text
2002/09/07	19:55:16	47.70988972	-127.78573232	2602.155	EVT	6.690	30.000	Lang sample intake connected
2002/09/07	19:55:31	47.70988910	-127.78573096	2602.013	EVT	6.720	30.000	Lang sampler connected
2002/09/07	19:57:35	47.70988751	-127.78573480	2601.451	EVT	7.070	1.190	wide angle shot of Lang sampler connected
2002/09/07	20:08:33	47.70988665	-127.78568190	2600.295	EVT	38.360	0.880	picking up the pipe MAV
2002/09/07	20:09:02	47.70988784	-127.78568273	2600.416	EVT	38.450	1.350	removing the connector of the pipe MAV
2002/09/07	20:10:17	47.70988649	-127.78568092	2600.308	EVT	38.230	1.340	positioning the intake of the Butterfield sampler
2002/09/07	20:11:00	47.70988629	-127.78568127	2600.376	EVT	38.210	1.350	pipe MAV connector left, Jason holding the Butterfield sampler connector above
2002/09/07	20:12:21	47.70988622	-127.78568121	2600.477	EVT	38.220	30.000	pipe MAV connector (left) Jason holding the Butterfield sampler connector (above)
2002/09/07	20:12:50	47.70988572	-127.78568111	2600.362	EVT	37.570	0.830	Butterfield sampler connected
2002/09/07	20:13:10	47.70988625	-127.78568108	2600.538	EVT	38.090	30.000	temperature slowly rising
2002/09/07	20:13:29	47.70988603	-127.78568058	2600.673	EVT	38.210	30.000	temperature at 11 without the flush pump
2002/09/07	20:14:05	47.70988636	-127.78567954	2600.301	EVT	38.770	0.960	closeup of the Butterfield sampler
2002/09/07	20:14:43	47.70988679	-127.78567983	2600.410	EVT	37.800	0.890	temperature flatlined at 13.2 without the flush pump
2002/09/07	20:14:52	47.70988698	-127.78567938	2600.247	EVT	37.770	0.890	turning on the flush pump to see what happens
2002/09/07	20:15:44	47.70988791	-127.78567492	2600.349	EVT	38.110	1.090	with the flush pump on T1 is climbing to 15
2002/09/07	20:16:05	47.70988790	-127.78567571	2600.355	EVT	38.250	0.900	temperature = 16
2002/09/07	20:16:53	47.70988802	-127.78567202	2600.315	EVT	38.300	0.930	T1 is measuring 17.7
2002/09/07	20:18:00	47.70988872	-127.78566986	2600.335	EVT	38.440	0.910	temperature is steady at 18.3 with a max temperature of 18.5
2002/09/07	20:18:41	47.70988898	-127.78566633	2600.288	EVT	38.320	0.920	Dave's sampler having issues: we are rebooting

Event log: LEXEN 2002
Dive J2-005

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/07	20:21:16	47.70988965	-127.78565496	2600.362	EVT	38.330	0.920	Flush pump is on
2002/09/07	20:23:42	47.70989206	-127.78564645	2600.247	EVT	38.320	0.930	Starting piston #22
2002/09/07	20:25:19	47.70989268	-127.78564176	2600.355	EVT	38.340	0.940	Stopped piston #22
2002/09/07	20:25:32	47.70989271	-127.78564138	2600.376	EVT	38.310	0.920	oops, not yet
2002/09/07	20:30:24	47.70989411	-127.78565839	2600.423	EVT	38.160	1.090	probe 4: piston #22 stopped
2002/09/07	20:31:13	47.70989438	-127.78566020	2600.342	EVT	38.180	1.070	piston #22: max T=19.3 ave T=18.9 vol=650ml
2002/09/07	20:32:12	47.70989519	-127.78565791	2600.389	EVT	38.260	0.930	started RNA filter #10
2002/09/07	20:43:28	47.70989831	-127.78565388	2600.410	EVT	38.210	1.100	stopped RNA filter #10
2002/09/07	20:44:01	47.70989819	-127.78565356	2600.369	EVT	38.040	0.960	RNA filter #10: max T=19.4 ave T=19.1 vol=1L
2002/09/07	20:49:58	47.70986720	-127.78564429	2599.212	EVT	298.200	1.210	getting ready to release the elevator
2002/09/07	20:50:31	47.70986735	-127.78564405	2599.077	EVT	297.810	1.360	the wire should be burning now
2002/09/07	20:51:39	47.70986761	-127.78564404	2599.077	EVT	298.190	1.240	elevator in the distance behing the Lang sampler
2002/09/07	20:52:27	47.70986734	-127.78564448	2599.097	EVT	298.360	1.260	the burn may take 5 to 15 minutes
2002/09/07	20:54:49	47.70986742	-127.78564409	2599.091	EVT	298.050	1.260	elevator going up
2002/09/07	20:57:23	47.70947829	-127.78566954	2589.561	EVT	177.050	18.460	Jason returning to the surface
2002/09/07	21:00:34	47.70941673	-127.78586276	2523.095	EVT	191.110	30.000	Jason will stop at 500 meters before returning to the surface
2002/09/07	21:00:56	47.70941673	-127.78586276	2516.471	EVT	191.140	30.000	having trouble getting a fix on the elevator
2002/09/07	22:14:04	47.70941673	-127.78586276	1204.367	EVT	249.450	30.000	ship takes over DP
2002/09/07	22:14:13	47.70941673	-127.78586276	1200.888	EVT	250.070	30.000	elevator on surface
2002/09/07	22:21:13	47.70941673	-127.78586276	1079.918	EVT	286.230	30.000	positioning ship to snag elevator
2002/09/07	22:28:29	47.70941673	-127.78586276	959.117	EVT	283.460	30.000	elevator hooked
2002/09/07	22:30:32	47.70941673	-127.78586276	925.136	EVT	260.310	30.000	elevator out of water
2002/09/07	22:31:10	47.70941673	-127.78586276	907.908	EVT	258.280	30.000	elevator has barrell sampler, a couple of rocks, clamshell from probe
2002/09/07	22:32:14	47.70941673	-127.78586276	875.766	EVT	259.530	30.000	elevator on deck
2002/09/07	23:16:45	47.70941673	-127.78586276	0.041	EVT	251.460	30.000	end of J2-005

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/08	04:38:07	47.70000000	-127.80000000	0.000	EVT	0.000	0.000	Test Event Button Pressed
2002/09/08	05:07:08	47.70000000	-127.80000000	0.000	EVT	0.000	0.000	this is a test
2002/09/08	05:08:06	47.70000000	-127.80000000	0.000	EVT	0.000	0.000	VID_GRAB
2002/09/08	05:08:06	47.70000000	-127.80000000	0.000	EVT	0.000	0.000	VID_GRAB
2002/09/08	14:03:06	47.70942882	-127.78589530	1.061	EVT	253.490	30.000	Preparing for dive J2-006
2002/09/08	14:11:48	47.70943804	-127.78589931	0.363	EVT	276.190	30.000	camera test
2002/09/08	14:12:19	47.70943578	-127.78589883	0.342	EVT	270.820	30.000	medea in air
2002/09/08	14:13:10	47.70943564	-127.78589876	0.445	EVT	270.500	30.000	medea in water
2002/09/08	14:13:57	47.70942530	-127.78589247	0.568	EVT	243.370	30.000	jason in the air
2002/09/08	14:15:07	47.70943524	-127.78586266	1.924	EVT	130.720	1.220	jason in he water
2002/09/08	14:16:45	47.70958874	-127.78574799	6.094	EVT	108.510	30.000	Jason in the water - starting descent
2002/09/08	14:23:53	47.71029110	-127.78580495	70.021	EVT	194.710	30.000	Jason descending now lots' of fish here
2002/09/08	14:58:08	47.71106091	-127.79057901	736.834	EVT	76.240	30.000	Beginning to drive down
2002/09/08	14:58:22	47.71105795	-127.79062750	738.922	EVT	74.820	30.000	Driving down at full
2002/09/08	15:16:05	47.71084280	-127.79459730	1317.787	EVT	59.790	30.000	jellyfish
2002/09/08	15:56:34	47.71026111	-127.80191035	2615.965	EVT	289.810	2.810	bottom in sight
2002/09/08	15:56:36	47.71026085	-127.80191005	2615.918	EVT	290.110	2.860	on the bottom
2002/09/08	15:56:49	47.71026333	-127.80191970	2616.229	EVT	296.870	2.360	mud
2002/09/08	15:56:50	47.71026359	-127.80192180	2616.229	EVT	296.100	2.310	SM2000 not working
2002/09/08	15:58:09	47.71029418	-127.80200704	2615.181	EVT	318.830	1.900	Nav target 39, just to the east, is site of latest probe
2002/09/08	16:01:51	47.71038805	-127.80212742	2612.178	EVT	318.930	2.130	keeping our eyes peeled for probe
2002/09/08	16:14:21	47.70959866	-127.77989793	2603.676	EVT	317.680	3.900	
2002/09/08	16:18:48	47.70969036	-127.78005640	2597.657	EVT	321.400	3.830	blank-text
2002/09/08	16:19:19	47.70968502	-127.78008866	2597.900	EVT	323.880	3.750	old marker - Matt thinks lost long ago
2002/09/08	16:19:26	47.70969351	-127.78009635	2597.697	EVT	323.710	3.800	we thought we found the probe, but there are markers
all around it so maybe it is an old one.								
2002/09/08	16:19:38	47.70969160	-127.78011503	2597.812	EVT	322.870	3.840	not sure which- "markers all around here.."
2002/09/08	16:19:45	47.70969162	-127.78012450	2597.745	EVT	323.170	4.030	Paul thinks its a new one
2002/09/08	16:19:53	47.70969631	-127.78013749	2597.894	EVT	323.110	3.930	
2002/09/08	16:19:55	47.70969783	-127.78014037	2597.941	EVT	323.220	3.970	blank-text
2002/09/08	16:20:14	47.70971202	-127.78015883	2599.429	EVT	323.080	2.690	we found the new probe
2002/09/08	16:20:25	47.70971531	-127.78016065	2598.658	EVT	323.100	3.420	blank-text
2002/09/08	16:20:26	47.70971575	-127.78016089	2598.685	EVT	323.450	3.530	New probe- confirmed.
2002/09/08	16:20:54	47.70972764	-127.78018016	2600.335	EVT	325.590	2.180	blank-text
2002/09/08	16:20:56	47.70972779	-127.78018056	2600.619	EVT	330.550	2.000	blank-text
2002/09/08	16:21:06	47.70972887	-127.78018252	2600.707	EVT	330.110	2.120	
2002/09/08	16:21:22	47.70972999	-127.78018372	2601.269	EVT	336.030	1.710	
2002/09/08	16:21:51	47.70973651	-127.78018952	2601.931	EVT	349.430	1.070	Probe 6: 3 M titanium
2002/09/08	16:22:06	47.70973810	-127.78019159	2602.533	EVT	359.610	30.000	Nozzle is burried- did not penetrate far. BEnt over
2002/09/08	16:22:49	47.70973692	-127.78019570	2602.601	EVT	8.400	30.000	
2002/09/08	16:22:57	47.70973583	-127.78019611	2602.635	EVT	8.390	0.840	closeup of nozzle

Event log: LEXEN 2002

Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/08	16:23:02	47.70973530	-127.78019658	2602.567	EVT	8.360	30.000	blank-text
2002/09/08	16:23:13	47.70973450	-127.78019759	2602.614	EVT	8.360	1.080	looks like nothing is copming out right now
2002/09/08	16:23:17	47.70973416	-127.78019856	2602.675	EVT	8.350	30.000	Probe 6: Nothing obvous coming out of nozzle
2002/09/08	16:23:38	47.70973278	-127.78020172	2602.614	EVT	8.300	1.070	tip is buried; going to try and knock sed out so that we can take temp
2002/09/08	16:24:05	47.70973181	-127.78020427	2602.689	EVT	8.320	30.000	Paul: Titanium too weak?- cause of bending
2002/09/08	16:24:22	47.70973036	-127.78020740	2602.635	EVT	8.300	30.000	arm shot
2002/09/08	16:28:51	47.70002243	-127.80000750	2602.682	EVT	7.870	30.000	
2002/09/08	16:32:27	47.70978810	-127.78561960	2602.696	EVT	7.880	30.000	Trying to dig out probe head with arm
2002/09/08	16:33:01	47.70978950	-127.78561906	2602.655	EVT	7.900	30.000	
2002/09/08	16:36:33	47.70981442	-127.78565037	2602.777	EVT	8.090	0.820	grabbing end of probe- lifting
2002/09/08	16:37:04	47.70981456	-127.78565148	2602.790	EVT	7.890	30.000	can move probe - by holding on to nozzel]
2002/09/08	16:37:24	47.70981533	-127.78565160	2602.696	EVT	7.840	30.000	end of nozzle clear!
2002/09/08	16:37:55	47.70981778	-127.78565143	2602.696	EVT	7.870	30.000	possibly some flow? looks like maybe - junk falling out
2002/09/08	16:38:11	47.70981950	-127.78565135	2602.736	EVT	7.890	30.000	blank-text
2002/09/08	16:38:17	47.70982010	-127.78565188	2602.777	EVT	7.890	30.000	Target TXT nozzle closeup b
2002/09/08	16:38:58	47.70982629	-127.78565281	2602.750	EVT	7.850	30.000	nozzle backup view
2002/09/08	16:39:19	47.70982722	-127.78565511	2602.763	EVT	7.850	30.000	tapping - get sed out?
2002/09/08	16:39:36	47.70982773	-127.78565499	2602.750	EVT	7.970	0.850	Tapping pushes it farther in- bad idea
2002/09/08	16:40:13	47.70982789	-127.78565275	2602.743	EVT	8.200	30.000	Grabbing nozzle- trying to pull up
2002/09/08	16:40:20	47.70982832	-127.78565406	2602.675	EVT	8.490	0.800	blank-text
2002/09/08	16:40:48	47.70982823	-127.78565363	2602.777	EVT	7.860	30.000	east ti kuft - set down new position
2002/09/08	16:41:35	47.70982799	-127.78565464	2602.757	EVT	7.850	30.000	base at entry
2002/09/08	16:44:13	47.70982744	-127.78566626	2602.919	EVT	7.950	30.000	Plan B: trying to rotate 180 deg until bend slopes "up" - maybe get some flow ?
2002/09/08	16:45:51	47.70984187	-127.78568584	2602.662	EVT	94.810	1.760	
2002/09/08	16:46:19	47.70984969	-127.78568830	2602.324	EVT	129.390	1.830	lifting
2002/09/08	16:46:38	47.70985618	-127.78568939	2602.398	EVT	159.370	1.340	Pulling out of hole??
2002/09/08	16:46:49	47.70985625	-127.78568914	2602.351	EVT	159.530	1.380	operation stopped.
2002/09/08	16:47:00	47.70985736	-127.78568804	2601.762	EVT	158.240	1.880	Probe is out of hole..
2002/09/08	16:49:50	47.70984463	-127.78569642	2602.642	EVT	70.810	1.880	
2002/09/08	16:52:53	47.70984106	-127.78570353	2603.183	EVT	59.320	1.900	
2002/09/08	16:55:26	47.70985613	-127.78568663	2602.094	EVT	93.470	1.970	blank-text
2002/09/08	16:55:44	47.70985572	-127.78568672	2602.249	EVT	93.440	1.950	base of hole
2002/09/08	16:57:08	47.70985574	-127.78568816	2603.108	EVT	69.260	1.260	
2002/09/08	16:58:05	47.70985554	-127.78568809	2603.007	EVT	69.260	1.280	Location perfect: Probe is stuck right into edge of ledge
2002/09/08	17:01:09	47.70985406	-127.78568333	2603.041	EVT	69.280	1.280	no flow coming out of base
2002/09/08	17:01:38	47.70985405	-127.78568378	2603.068	EVT	69.300	1.300	Plan: to ry gently rotating again- idea get nipple up as high as possilbe

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/08	17:03:27	47.70985034	-127.78568906	2603.345	EVT	70.950	1.320	
2002/09/08	17:04:11	47.70985674	-127.78569193	2602.743	EVT	89.750	2.060	blank-text
2002/09/08	17:04:11	47.70985674	-127.78569193	2602.743	EVT	89.750	2.060	rotating...
2002/09/08	17:04:36	47.70986404	-127.78569433	2602.297	EVT	119.680	2.280	pulled probe out more
2002/09/08	17:05:22	47.70985437	-127.78571183	2602.161	EVT	93.460	3.370	nice view of curved shape- Ti too soft?
2002/09/08	17:05:42	47.70985245	-127.78570206	2603.081	EVT	84.280	2.300	
2002/09/08	17:13:58	47.70985913	-127.78570255	2603.101	EVT	121.440	1.920	blank-text
2002/09/08	17:14:08	47.70985913	-127.78570282	2603.061	EVT	121.500	1.930	
2002/09/08	17:14:12	47.70985915	-127.78570295	2603.034	EVT	121.490	1.940	Flow!!!!
2002/09/08	17:16:50	47.70985891	-127.78570523	2603.237	EVT	121.510	1.890	
2002/09/08	17:17:10	47.70985884	-127.78570545	2603.196	EVT	121.510	1.920	Temp probe- background being taken
2002/09/08	17:17:58	47.70985854	-127.78570643	2603.189	EVT	121.560	1.930	background = 2.1 degrees
2002/09/08	17:18:19	47.70985862	-127.78570709	2603.196	EVT	121.450	1.900	blank-text
2002/09/08	17:18:20	47.70985862	-127.78570709	2603.196	EVT	121.450	1.900	blank-text
2002/09/08	17:18:25	47.70985871	-127.78570719	2603.122	EVT	121.530	1.920	probe being inserted into apparent flow
2002/09/08	17:18:27	47.70985873	-127.78570722	2603.196	EVT	121.570	1.910	blank-text
2002/09/08	17:18:44	47.70985866	-127.78570753	2603.216	EVT	121.600	1.920	temp 2.4
2002/09/08	17:19:07	47.70985847	-127.78570820	2603.149	EVT	121.600	1.910	temp 2.4 seems steady - small temp anomaly
2002/09/08	17:19:14	47.70985854	-127.78570829	2603.223	EVT	121.640	1.890	
2002/09/08	17:19:21	47.70985851	-127.78570836	2603.196	EVT	121.600	1.900	blank-text
2002/09/08	17:20:06	47.70985837	-127.78570981	2603.176	EVT	121.620	1.900	taking "over sediment" temp at same approx altitude
over sed- is heat really coming from probe effluent?								
2002/09/08	17:20:20	47.70985844	-127.78570996	2603.304	EVT	121.690	1.890	over sed = 2.1 - suggests 2.4 = real
2002/09/08	17:21:55	47.70985836	-127.78571101	2603.358	EVT	121.660	1.820	2nd try: NOTHING- tip back in flow: now only 2.1
2002/09/08	17:23:13	47.70985870	-127.78571069	2603.304	EVT	121.560	1.850	Try 3: back in tip
2002/09/08	17:23:37	47.70985887	-127.78570996	2603.284	EVT	121.910	1.840	2.2 Plus RAY
2002/09/08	17:23:37	47.70985887	-127.78570996	2603.284	EVT	121.910	1.840	blank-text
2002/09/08	17:23:41	47.70985899	-127.78570982	2603.311	EVT	121.900	1.830	blank-text
2002/09/08	17:23:44	47.70985902	-127.78570974	2603.210	EVT	121.870	1.840	Ray attack !!
2002/09/08	17:26:33	47.70986206	-127.78570464	2603.413	EVT	121.840	1.830	CTD max=1.86, up from 1.8
2002/09/08	17:30:23	47.70986368	-127.78570121	2603.555	EVT	120.280	1.660	Plan c: going to lift up end of pipe slightly, and try to
shove it in deeper..								
2002/09/08	17:30:29	47.70986378	-127.78570107	2603.656	EVT	121.180	1.640	
2002/09/08	17:30:56	47.70986403	-127.78570074	2603.602	EVT	121.000	1.660	
2002/09/08	17:32:39	47.70985485	-127.78570600	2604.008	EVT	121.020	1.690	going right in !!
2002/09/08	17:32:52	47.70985568	-127.78570663	2603.859	EVT	124.930	1.740	Big increase in flow!
2002/09/08	17:33:16	47.70985349	-127.78570714	2603.602	EVT	109.150	2.110	blank-text
2002/09/08	17:33:39	47.70985299	-127.78570539	2603.818	EVT	97.740	1.880	gusher of sediment- but flow is down
2002/09/08	17:36:43	47.70984813	-127.78570802	2603.913	EVT	105.980	1.860	blank-text
2002/09/08	17:36:51	47.70984787	-127.78570825	2603.913	EVT	105.930	1.830	blank-text
2002/09/08	17:36:56	47.70984741	-127.78570807	2603.879	EVT	105.850	1.840	new flow

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/08	17:37:08	47.70984658	-127.78570875	2603.960	EVT	105.940	1.860	blank-text
2002/09/08	17:38:43	47.70984523	-127.78570822	2603.927	EVT	105.920	1.780	
2002/09/08	17:39:59	47.70984489	-127.78570743	2604.008	EVT	106.100	1.770	temp of new flow : 2.25 background
2002/09/08	17:41:01	47.70984524	-127.78570433	2604.008	EVT	105.940	1.850	Background: 2.1 = real. prev was not good
2002/09/08	17:41:06	47.70984532	-127.78570407	2603.913	EVT	105.900	1.790	
2002/09/08	17:41:23	47.70984543	-127.78570370	2603.933	EVT	106.170	1.760	2.3
2002/09/08	17:41:39	47.70984552	-127.78570325	2604.035	EVT	106.110	1.760	Matt theory: "primarily shit in the tube..."
2002/09/08	17:42:01	47.70984594	-127.78570228	2603.913	EVT	106.200	1.770	
2002/09/08	17:43:43	47.70984624	-127.78570017	2604.197	EVT	105.070	1.680	trying to shove in yet again..
2002/09/08	17:44:06	47.70984636	-127.78570016	2604.238	EVT	105.160	1.560	Pulled it out by accident - oops. very loose
2002/09/08	17:45:18	47.70984695	-127.78569496	2604.102	EVT	103.870	1.590	
2002/09/08	17:45:40	47.70984689	-127.78569499	2604.015	EVT	102.540	1.580	just pushing- no lifting- APPEARS to be really pushing it in
2002/09/08	17:45:47	47.70984722	-127.78569465	2604.042	EVT	102.560	1.580	Good flow
2002/09/08	17:46:57	47.70984803	-127.78569386	2603.940	EVT	102.460	1.610	ambient = 2.1
2002/09/08	17:47:17	47.70984839	-127.78569354	2603.967	EVT	102.480	1.600	2.2 in flow
2002/09/08	17:51:42	47.70984636	-127.78570245	2603.947	EVT	102.450	1.610	2.2 in flowing plume
2002/09/08	17:52:02	47.70984605	-127.78570309	2604.035	EVT	102.440	1.610	lots of junk on bottom here- old wheat sampler, old Alvin wts..
2002/09/08	17:52:20	47.70984563	-127.78570409	2604.015	EVT	102.440	1.610	flow seems to be dying- post about 2-3 mins. same behavior as previously
2002/09/08	17:55:01	47.70984459	-127.78570999	2604.109	EVT	102.960	1.570	shoving in again
2002/09/08	17:55:07	47.70984452	-127.78570990	2604.069	EVT	102.960	1.620	going in like butter..
2002/09/08	17:55:29	47.70984467	-127.78570984	2604.015	EVT	102.770	1.640	is it going in horizontally?
2002/09/08	17:55:42	47.70984464	-127.78570996	2604.157	EVT	102.760	1.640	MattH: not much pressure being applied-
2002/09/08	17:56:07	47.70984453	-127.78571068	2604.116	EVT	102.780	1.640	sliding right in
2002/09/08	17:56:36	47.70984459	-127.78571053	2604.116	EVT	102.730	1.660	conclusion: probably just sliding along under sediment
2002/09/08	17:57:12	47.70984487	-127.78571101	2604.089	EVT	102.740	1.670	ray
2002/09/08	17:59:31	47.70985761	-127.78569451	2603.886	EVT	117.410	1.430	Plan D: pick up entire probe, lift clear, stuff it in with Jason arm
2002/09/08	18:00:08	47.70985857	-127.78569503	2603.845	EVT	119.270	1.200	Matt H: I can pick whole thing up - basically its just laying on surface, just slightly below. never went in.
2002/09/08	18:00:21	47.70985849	-127.78569438	2603.893	EVT	119.140	1.110	probe clear - shaking
2002/09/08	18:01:08	47.70985991	-127.78569540	2603.927	EVT	118.000	1.230	
2002/09/08	18:02:11	47.70986184	-127.78569733	2603.859	EVT	119.230	1.280	blank-text
2002/09/08	18:02:18	47.70986190	-127.78569747	2603.913	EVT	119.380	1.240	blank-text
2002/09/08	18:02:21	47.70986166	-127.78569745	2603.845	EVT	119.530	1.160	blank-text
2002/09/08	18:02:32	47.70986163	-127.78569672	2603.879	EVT	119.510	1.130	blank-text
2002/09/08	18:02:44	47.70986239	-127.78569654	2603.913	EVT	119.440	1.190	bottom of probe
2002/09/08	18:03:12	47.70986250	-127.78569520	2603.920	EVT	119.460	1.190	blank-text

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/08	18:03:56	47.70986267	-127.78569318	2603.987	EVT	119.530	1.180	blank-text
2002/09/08	18:04:58	47.70986444	-127.78569082	2604.008	EVT	118.590	1.090	going to try to grab top
2002/09/08	18:05:05	47.70986468	-127.78569064	2604.035	EVT	118.520	1.100	and then drive into seabed
2002/09/08	18:06:08	47.70986290	-127.78569024	2603.960	EVT	119.090	1.060	lifting up
2002/09/08	18:06:32	47.70986346	-127.78568970	2604.042	EVT	119.380	1.060	and up...
2002/09/08	18:06:41	47.70986349	-127.78568974	2604.021	EVT	119.490	1.050	blank-text
2002/09/08	18:07:18	47.70986347	-127.78568943	2603.913	EVT	118.790	1.250	dropped it. oops
2002/09/08	18:07:25	47.70985942	-127.78569990	2603.183	EVT	115.350	2.390	dropped
2002/09/08	18:09:17	47.70985687	-127.78568610	2603.805	EVT	152.900	0.880	lifting again
2002/09/08	18:09:32	47.70985688	-127.78568589	2603.636	EVT	151.960	0.960	dropped again
2002/09/08	18:09:47	47.70985622	-127.78568584	2603.683	EVT	152.040	0.890	lifting...
2002/09/08	18:09:54	47.70985581	-127.78568680	2603.744	EVT	151.740	0.910	picked up probe again
2002/09/08	18:10:11	47.70984493	-127.78568452	2603.135	EVT	111.320	2.300	vehicle thrusting up with probe in arm
2002/09/08	18:10:29	47.70983469	-127.78566623	2603.271	EVT	58.800	1.570	moving probe...
2002/09/08	18:11:12	47.70983987	-127.78563458	2602.439	EVT	332.950	1.040	taking it uphill, probe is pointing downhill
2002/09/08	18:14:49	47.70985196	-127.78563548	2602.560	EVT	315.090	30.000	lifting probe
2002/09/08	18:15:08	47.70985207	-127.78563537	2602.587	EVT	315.420	30.000	slipped away
2002/09/08	18:15:54	47.70985221	-127.78563522	2602.662	EVT	315.740	30.000	trying again
2002/09/08	18:16:28	47.70985220	-127.78563518	2602.587	EVT	315.800	30.000	blank-text
2002/09/08	18:16:55	47.70986456	-127.78563193	2602.770	EVT	339.150	30.000	dropped it
2002/09/08	18:42:56	47.70986093	-127.78559896	2602.560	EVT	149.460	1.390	trying to drive it back in again
2002/09/08	18:42:59	47.70986090	-127.78559888	2602.506	EVT	148.540	30.000	blank-text
2002/09/08	18:43:54	47.70986320	-127.78558111	2601.952	EVT	177.280	30.000	every time we stick it in and let go, it falls down
2002/09/08	18:56:05	47.70979841	-127.78568309	2598.881	EVT	354.280	4.190	target
2002/09/08	19:12:52	47.70986643	-127.78563505	2597.826	EVT	323.860	2.020	we are moving towards the Lang sampler
2002/09/08	19:13:26	47.70988056	-127.78565246	2597.420	EVT	324.690	2.160	we will be checking to see if it has been working properly
2002/09/08	19:13:50	47.70988194	-127.78565412	2597.562	EVT	324.370	2.040	Jason's swing arm is not working so we are not able to get to the thermal blanket
2002/09/08	19:14:06	47.70988158	-127.78565388	2597.508	EVT	324.590	2.080	inspecting the Lang sampler
2002/09/08	19:14:57	47.70988167	-127.78565404	2597.522	EVT	324.520	2.050	inspecting the Lang sampler
2002/09/08	19:18:42	47.70988221	-127.78565218	2597.535	EVT	321.620	2.120	monitoring the Lang sampler
2002/09/08	19:19:48	47.70988245	-127.78565218	2597.359	EVT	321.610	2.230	Susan says it is working properly\
2002/09/08	19:20:26	47.70988223	-127.78565232	2597.515	EVT	321.680	1.990	the syringe is moving
2002/09/08	19:21:12	47.70988240	-127.78565218	2597.609	EVT	321.730	2.000	we will now work on the swing arm to get the thermal blanket
2002/09/08	19:24:07	47.70988261	-127.78565236	2597.542	EVT	321.620	2.090	swing arm worked
2002/09/08	19:24:23	47.70988251	-127.78565262	2597.400	EVT	321.660	2.180	thermal blanket is now out
2002/09/08	19:28:08	47.70987331	-127.78564024	2597.549	EVT	321.780	2.230	picking up the thermal blanket
2002/09/08	19:29:31	47.70986044	-127.78565846	2597.339	EVT	346.870	3.270	looking for a location to deploy the thermal blanket
2002/09/08	19:30:12	47.70983669	-127.78574550	2597.407	EVT	2.440	6.760	moving 10 meters south

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/08	19:34:33	47.70980743	-127.78571421	2602.175	EVT	3.300	1.810	looking for a flat warm spot to place the thermal blanket
2002/09/08	19:37:58	47.70974545	-127.78566937	2602.750	EVT	3.360	1.420	this spot looks good
2002/09/08	19:38:17	47.70974499	-127.78567052	2602.500	EVT	3.520	1.740	placing the thermal blanket on the sea floor
2002/09/08	19:39:07	47.70973000	-127.78567304	2602.405	EVT	3.280	1.930	thermal blanket in its final spot
2002/09/08	19:40:25	47.70973030	-127.78568382	2603.325	EVT	2.770	1.150	thermal blanket deployed 5 to 6 meters away from pipe (probe)
2002/09/08	19:46:34	47.70973393	-127.78567191	2602.608	EVT	331.230	1.300	thermal blanket deployed
2002/09/08	19:50:55	47.70992662	-127.78572180	2600.687	EVT	40.120	1.730	where we are going to take push core
2002/09/08	19:51:00	47.70992658	-127.78572166	2600.836	EVT	39.730	1.660	
2002/09/08	19:51:17	47.70992643	-127.78572184	2600.863	EVT	39.550	1.680	we are about 2 meters away from the intake of the Lang sampler
2002/09/08	19:53:02	47.70992540	-127.78572380	2600.761	EVT	39.440	1.730	triple green push core
2002/09/08	19:53:12	47.70992515	-127.78572445	2600.802	EVT	39.720	1.720	blank-text
2002/09/08	19:53:31	47.70992526	-127.78572461	2600.836	EVT	39.720	1.650	bottomed out perfect push core
2002/09/08	19:53:36	47.70992535	-127.78572471	2600.809	EVT	39.660	1.650	blank-text
2002/09/08	19:56:09	47.70986471	-127.78565654	2598.827	EVT	39.310	2.690	MAV
2002/09/08	19:56:22	47.70987036	-127.78564777	2598.989	EVT	38.850	2.310	pipe MAV
2002/09/08	19:56:56	47.70987479	-127.78564132	2599.219	EVT	39.350	1.710	pipe MAV
2002/09/08	19:59:41	47.70987467	-127.78564476	2599.246	EVT	39.940	1.620	we are now taking the temperature of the exhaust from the pipe MAV
2002/09/08	20:00:25	47.70987451	-127.78564507	2599.212	EVT	39.720	1.650	pipe MAV exhaust temperature
2002/09/08	20:01:47	47.70987428	-127.78564654	2599.307	EVT	39.580	1.570	jason holding the temperature probe
2002/09/08	20:03:02	47.70987421	-127.78564679	2599.300	EVT	39.780	1.650	ICL temperature having trouble
2002/09/08	20:03:11	47.70987416	-127.78564678	2599.341	EVT	39.680	1.670	there may be a problem with the wire
2002/09/08	20:03:15	47.70987415	-127.78564671	2599.226	EVT	39.700	1.670	the WIRE
2002/09/08	20:03:44	47.70987400	-127.78564762	2599.314	EVT	39.550	1.650	only works when Jason holds at a 90 degree angle
2002/09/08	20:04:16	47.70987392	-127.78564864	2599.334	EVT	39.450	1.660	now placing measuring the exhaust from the pipe MAV using the new technique
2002/09/08	20:05:14	47.70987424	-127.78564998	2599.287	EVT	40.000	1.620	we appear to have flow as the temperature steadily rises
2002/09/08	20:05:26	47.70987434	-127.78565019	2599.395	EVT	39.970	1.620	highest temperature recorded = 11.7
2002/09/08	20:08:13	47.70987765	-127.78565716	2599.496	EVT	39.170	1.550	removed the pipe MAV connector from the probe
2002/09/08	20:09:47	47.70987752	-127.78565691	2599.544	EVT	39.280	1.590	placing the connector of the Butterfield sampler onto the probe sticking out of the ground
2002/09/08	20:10:27	47.70987868	-127.78566100	2599.686	EVT	39.660	1.580	the connector is being attached
2002/09/08	20:11:00	47.70987263	-127.78565133	2599.591	EVT	37.880	1.500	having problems putting it on from this angle
2002/09/08	20:14:15	47.70987493	-127.78565280	2599.956	EVT	39.040	1.140	flush pump is not on
2002/09/08	20:14:24	47.70987471	-127.78565274	2599.760	EVT	38.580	1.330	we are recording rising temperature
2002/09/08	20:14:29	47.70987489	-127.78565268	2599.970	EVT	38.390	1.230	we are connected
2002/09/08	20:14:47	47.70987459	-127.78565231	2599.963	EVT	38.740	1.230	Butterfield sampler temp = 15

Event log: LEXEN 2002

Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/08	20:15:05	47.70987518	-127.78565227	2599.896	EVT	38.680	1.230	we are on
2002/09/08	20:15:12	47.70987480	-127.78565214	2600.024	EVT	38.670	1.230	turning on flush pump
2002/09/08	20:15:25	47.70987472	-127.78565208	2599.963	EVT	38.610	1.230	inspecting output hoses
2002/09/08	20:15:58	47.70987486	-127.78565185	2599.983	EVT	38.650	1.230	Butterfield sampler temp = 16
2002/09/08	20:16:04	47.70987468	-127.78565196	2599.841	EVT	38.810	1.230	flush pump is on
2002/09/08	20:16:40	47.70987587	-127.78565212	2599.936	EVT	38.740	1.220	Butterfield sampler temp = 18.5
2002/09/08	20:20:15	47.70988396	-127.78565336	2599.916	EVT	38.600	1.230	Butterfield sampler bag number 18 starting
2002/09/08	20:27:10	47.70988999	-127.78565732	2600.078	EVT	38.600	1.220	Butterfield sampler bag number 18 stopped
2002/09/08	20:27:58	47.70989015	-127.78565972	2600.051	EVT	38.420	1.200	max 20 avg 19.9
2002/09/08	20:28:14	47.70989016	-127.78566065	2600.004	EVT	38.600	1.210	vol 650 ml
2002/09/08	20:29:33	47.70989115	-127.78566609	2600.058	EVT	38.530	1.200	Butterfield sampler 3 starting
2002/09/08	20:40:03	47.70989472	-127.78569305	2600.085	EVT	38.010	1.200	Butterfield sampler 3 ending
2002/09/08	20:40:21	47.70989450	-127.78569374	2600.153	EVT	38.070	1.200	max 20.1 avg 20 vol 1 liter
2002/09/08	20:43:32	47.70989664	-127.78569822	2600.038	EVT	38.170	1.180	Butterfield sampler number 17 filtered starting
2002/09/08	20:44:25	47.70989692	-127.78569935	2600.207	EVT	38.030	1.200	Butterfield sampler number 17 filtered
2002/09/08	20:46:20	47.70989954	-127.78570120	2600.112	EVT	38.060	1.200	Butterfield sampler number 17 filtered
2002/09/08	20:50:59	47.70991300	-127.78570486	2600.213	EVT	37.840	1.170	Butterfield sampler number 17 filtered stopped
2002/09/08	20:51:14	47.70991366	-127.78570484	2600.254	EVT	37.830	1.170	max 20.1 avg 20 vol 650 ml
2002/09/08	20:52:20	47.70991677	-127.78570584	2600.200	EVT	37.710	1.170	starting FISH filter number 21
2002/09/08	20:56:29	47.70991877	-127.78570640	2600.119	EVT	37.520	1.180	stopping FISH filter number 21
2002/09/08	20:56:55	47.70991857	-127.78570593	2600.173	EVT	37.440	1.180	max 20.1 avg 20 vol 500 ml
2002/09/08	20:57:07	47.70991826	-127.78570545	2600.213	ASNAP	37.550	1.170	
2002/09/08	20:58:36	47.70991496	-127.78570254	2600.186	EVT	37.500	1.170	starting filtered bag number 8
2002/09/08	21:05:39	47.70991142	-127.78569363	2600.132	EVT	37.620	1.170	stopping filtered bag number 8
2002/09/08	21:06:09	47.70991142	-127.78569342	2600.126	EVT	37.440	1.190	max 20.1 avg 20 vol 601 ml
2002/09/08	21:06:37	47.70991111	-127.78569314	2600.112	EVT	37.560	1.170	starting unfiltered bag number 9
2002/09/08	21:12:44	47.70991834	-127.78569628	2600.213	EVT	37.780	1.170	stopped unfiltered bag number 9
2002/09/08	21:13:13	47.70991927	-127.78569618	2600.166	EVT	37.710	1.170	max 20.1 avg 20 vol 600 ml
2002/09/08	21:14:28	47.70992148	-127.78569724	2600.139	EVT	37.810	1.170	starting unfiltered bag number 14
2002/09/08	21:19:57	47.70993255	-127.78569926	2600.234	EVT	37.490	1.170	stopping unfiltered bag number 14
2002/09/08	21:20:16	47.70993271	-127.78569928	2600.281	EVT	37.670	1.170	max 20.1 avg 20 vol 599 ml
2002/09/08	21:21:01	47.70993202	-127.78569769	2600.200	EVT	37.510	1.180	starting bag number 16
2002/09/08	21:25:33	47.70992913	-127.78569183	2600.146	EVT	37.510	1.170	stopping bag number 16
2002/09/08	21:26:01	47.70992905	-127.78569186	2600.159	EVT	37.460	1.200	max 20.1 avg 20 vol 498 ml
2002/09/08	21:30:48	47.70992343	-127.78568490	2600.220	EVT	37.430	1.190	starting filter number 7
2002/09/08	21:40:01	47.70992740	-127.78568978	2600.153	EVT	37.500	1.190	stopping bag number 16
2002/09/08	21:53:36	47.70992004	-127.78567060	2600.112	EVT	37.520	1.200	starting piston number 24
2002/09/08	22:00:38	47.70991473	-127.78566536	2600.112	EVT	37.560	1.160	stopped piston number 24
2002/09/08	22:00:54	47.70991486	-127.78566525	2600.180	EVT	37.540	1.150	max 20.1 avg 20 vol 639 ml
2002/09/08	22:01:51	47.70991280	-127.78566292	2600.126	EVT	37.430	1.190	starting piston number 22
2002/09/08	22:08:57	47.70990621	-127.78565804	2600.017	EVT	37.380	1.210	stopped piston number 22

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/08	22:09:12	47.70990579	-127.78565764	2600.031	EVT	37.280	1.220	max 20.1 avg 20 volume 711
2002/09/08	22:09:26	47.70990571	-127.78565724	2600.051	EVT	37.350	1.210	We are finished with the Butterfield sampler
2002/09/08	22:11:53	47.70990513	-127.78565344	2600.058	EVT	37.360	1.200	close up of the Butterfield sampler connection
2002/09/08	22:13:32	47.70990565	-127.78565196	2599.963	EVT	37.150	1.270	removed Butterfield sampler
2002/09/08	22:17:53	47.70989751	-127.78565391	2581.910	EVT	37.650	20.510	reconnected the pipe MAV
2002/09/08	22:43:19	47.71120138	-127.78461139	2647.628	EVT	17.470	3.250	heading to 1026-b
2002/09/08	22:55:02	47.71214238	-127.78415375	2631.702	EVT	179.470	29.990	blank-text
2002/09/08	22:59:49	47.71272947	-127.78385097	2631.763	EVT	178.320	29.740	in transit to 1026b
2002/09/08	23:18:06	47.71509600	-127.78253221	2631.621	EVT	190.970	29.760	c
2002/09/08	23:18:19	47.71512680	-127.78251462	2631.750	EVT	189.520	29.650	that was an urochordate
2002/09/08	23:21:11	47.71539742	-127.78236315	2631.716	EVT	192.080	30.000	stretching the arm, still in transit
2002/09/08	23:21:40	47.71545634	-127.78232660	2631.581	EVT	189.150	30.000	c
2002/09/08	23:21:51	47.71548103	-127.78231375	2631.567	EVT	189.890	30.000	that was a decapod larva
2002/09/08	23:25:33	47.71595325	-127.78203712	2616.479	EVT	191.770	30.000	c
2002/09/08	23:25:39	47.71596662	-127.78202869	2616.391	EVT	190.810	30.000	shrimp
2002/09/08	23:29:27	47.71648963	-127.78167757	2616.310	EVT	189.080	30.000	c
2002/09/08	23:30:34	47.71664249	-127.78157779	2616.398	EVT	188.630	30.000	cred thing
2002/09/08	23:30:50	47.71668138	-127.78155508	2616.581	EVT	190.440	30.000	red jelly
2002/09/08	23:32:17	47.71687698	-127.78141947	2616.351	EVT	189.630	30.000	shiny arm
2002/09/08	23:39:24	47.71788308	-127.78072443	2614.734	EVT	188.800	30.000	c
2002/09/08	23:39:33	47.71790033	-127.78071494	2613.706	EVT	189.230	30.000	ctenophores
2002/09/08	23:54:11	47.72006651	-127.77939997	2601.945	EVT	186.500	30.000	transit to 1026b
2002/09/09	00:39:58	47.72774447	-127.77520843	2585.171	EVT	188.980	30.000	transit
2002/09/09	01:42:38	47.73864064	-127.76845579	2578.379	EVT	192.580	30.000	Jason is estimated to arrive at 1026b around 04:00
2002/09/09	03:26:08	47.75695432	-127.75854382	2638.620	EVT	359.300	19.930	shrimp sighting
2002/09/09	03:33:22	47.75758587	-127.75848188	2638.620	EVT	359.450	20.120	another shrimp sighting
2002/09/09	03:44:21	47.75783756	-127.75871697	2638.844	EVT	335.740	19.880	ship is on site of 1026b
2002/09/09	03:45:31	47.75799670	-127.75874208	2640.947	EVT	106.360	17.330	1026b in medea camera
2002/09/09	03:46:02	47.75801491	-127.75873296	2656.195	EVT	73.480	2.850	on site of 1026b
2002/09/09	03:46:24	47.75801933	-127.75865691	2655.194	EVT	80.730	3.550	cap on 1026b
2002/09/09	03:47:24	47.75802216	-127.75861191	2657.967	EVT	80.080	1.410	biocolumn in hole from 1998
2002/09/09	03:48:08	47.75802168	-127.75861279	2657.899	EVT	80.050	1.390	taking a look at the funnel
2002/09/09	03:48:32	47.75802175	-127.75861315	2657.967	EVT	80.050	1.390	corross
2002/09/09	03:49:03	47.75802166	-127.75861314	2657.933	EVT	79.920	1.390	corrosion on column
2002/09/09	03:49:26	47.75802150	-127.75861317	2657.940	EVT	79.930	1.380	is this bacterial mat?
2002/09/09	03:49:40	47.75802142	-127.75861291	2657.967	EVT	79.890	1.370	red is anemones
2002/09/09	03:50:11	47.75802082	-127.75861148	2657.926	EVT	79.940	1.380	re-entry cone might still be hooked up
2002/09/09	03:50:53	47.75802113	-127.75861178	2657.811	EVT	79.890	1.410	about to move to re-entry cone box to ch
2002/09/09	03:51:28	47.75801876	-127.75861705	2657.561	EVT	80.080	1.610	blank-text
2002/09/09	03:52:37	47.75801242	-127.75860397	2657.811	EVT	75.350	1.430	black box has cone, check for venting
2002/09/09	03:55:27	47.75801728	-127.75860701	2657.865	EVT	66.490	1.370	plug for 1026b

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/09 03:55:44		47.75801703	-127.75860655	2657.906	EVT	66.550	1.380	blank-text
2002/09/09 03:56:21		47.75801513	-127.75860538	2657.784	EVT	66.560	1.380	not clear enough to find shimmering water
2002/09/09 03:57:01		47.75801398	-127.75860392	2657.879	EVT	66.490	1.380	blank-text
2002/09/09 03:58:10		47.75801258	-127.75860211	2657.838	EVT	66.220	1.350	preparing to pick up ICL to see if there is flow
2002/09/09 03:58:43		47.75801341	-127.75860317	2657.838	EVT	66.250	1.360	blank-text
2002/09/09 03:59:42		47.75801307	-127.75860526	2657.771	EVT	66.080	1.420	icl in grasp
2002/09/09 04:00:10		47.75801345	-127.75860760	2657.710	EVT	66.110	1.430	black box in center of frame
2002/09/09 04:00:37		47.75801348	-127.75860893	2657.723	EVT	66.170	1.430	2.2 is background temp.
2002/09/09 04:01:58		47.75801250	-127.75860899	2657.879	EVT	66.110	1.350	left side, shimmering water out of hole
2002/09/09 04:04:10		47.75801111	-127.75861107	2657.852	EVT	66.050	1.450	background 2.1 degrees
2002/09/09 04:06:20		47.75800952	-127.75861138	2657.791	EVT	65.950	1.420	problem with arm?
2002/09/09 04:06:42		47.75800959	-127.75861173	2657.791	EVT	66.090	1.420	retracting ICL trigger
2002/09/09 04:07:11		47.75800950	-127.75861263	2657.879	EVT	66.120	1.430	trying to line up i
2002/09/09 04:07:57		47.75801003	-127.75861460	2657.798	EVT	66.040	1.420	returned ICL
2002/09/09 04:09:26		47.75801108	-127.75862018	2657.798	EVT	65.980	1.370	icl
2002/09/09 04:09:50		47.75801118	-127.75862106	2657.865	EVT	65.860	1.440	probe is lined up now
2002/09/09 04:11:44		47.75801178	-127.75862640	2657.865	EVT	66.020	1.410	stowing the ICL as in is not working
2002/09/09 04:13:27		47.75801170	-127.75862712	2657.838	EVT	66.550	1.420	about to open reentry cone
2002/09/09 04:14:22		47.75800897	-127.75862885	2656.919	EVT	52.440	2.110	taking a look at the cone on top
2002/09/09 04:15:07		47.75801018	-127.75862719	2656.459	EVT	31.090	2.580	flow is coming out cone
2002/09/09 04:15:33		47.75800998	-127.75862737	2655.181	EVT	30.720	3.860	60 degree fluid may be coming out of cone
2002/09/09 04:16:03		47.75800755	-127.75862580	2655.816	EVT	27.180	3.320	blank-text
2002/09/09 04:16:32		47.75800874	-127.75862862	2656.067	EVT	22.050	3.100	handle can be seen on cone
2002/09/09 04:17:00		47.75800863	-127.75862677	2655.857	EVT	10.280	3.050	we will attempt to off the cone
2002/09/09 04:17:17		47.75800864	-127.75862685	2656.019	EVT	10.250	2.990	blank-text
2002/09/09 04:18:08		47.75800723	-127.75861426	2655.972	EVT	336.300	3.110	we will have to move the black box and set down to
remove the cone								
2002/09/09 04:18:32		47.75801089	-127.75861449	2656.236	EVT	338.950	2.850	plenty of flow
2002/09/09 04:19:18		47.75801092	-127.75861494	2656.209	EVT	335.130	2.800	blank-text
2002/09/09 04:19:48		47.75801238	-127.75861579	2656.195	EVT	335.110	2.870	blank-text
2002/09/09 04:20:15		47.75801225	-127.75861605	2656.161	EVT	335.100	2.860	previous grab was a good shot of fluid flow
2002/09/09 04:20:46		47.75801242	-127.75861589	2656.317	EVT	335.330	2.710	blank-text
2002/09/09 04:20:59		47.75801212	-127.75861567	2656.303	EVT	335.340	2.780	blank-text
2002/09/09 04:21:12		47.75801219	-127.75861611	2656.229	EVT	335.470	2.800	corros
2002/09/09 04:21:46		47.75801214	-127.75861613	2656.276	EVT	335.110	2.740	setting up to grab handle
2002/09/09 04:22:01		47.75801216	-127.75861603	2656.269	EVT	335.140	2.780	blank-text
2002/09/09 04:22:47		47.75800944	-127.75861677	2656.398	EVT	335.320	2.610	blank-text
2002/09/09 04:23:22		47.75800972	-127.75861495	2656.263	EVT	336.850	2.820	blank-text
2002/09/09 04:23:41		47.75800902	-127.75861645	2656.357	EVT	335.010	2.640	not loose
2002/09/09 04:23:58		47.75800924	-127.75861602	2656.357	EVT	335.670	2.720	blank-text
2002/09/09 04:24:14		47.75800917	-127.75861531	2656.418	EVT	335.090	2.770	blank-text

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/09 04:24:23		47.75800917	-127.75861644	2656.215	EVT	334.980	2.720	grabbing cone
2002/09/09 04:24:41		47.75800901	-127.75861657	2656.418	EVT	335.470	2.720	blank-text
2002/09/09 04:24:57		47.75801197	-127.75861360	2656.141	EVT	335.890	3.010	shaking it
2002/09/09 04:25:30		47.75801243	-127.75861747	2656.256	EVT	335.320	2.790	wagging vehicle instead of cone
2002/09/09 04:25:51		47.75800911	-127.75861674	2656.188	EVT	335.230	2.830	blank-text
2002/09/09 04:27:05		47.75801757	-127.75862989	2656.770	EVT	41.950	2.380	top of cone
2002/09/09 04:28:03		47.75801592	-127.75863567	2657.169	EVT	44.240	2.130	extending basket
2002/09/09 04:29:04		47.75801726	-127.75863257	2657.182	EVT	33.580	1.990	cone
2002/09/09 04:29:56		47.75801727	-127.75863297	2657.297	EVT	33.420	1.840	basket against biocolumn
2002/09/09 04:30:11		47.75801712	-127.75863280	2657.257	EVT	33.280	1.810	handle
2002/09/09 04:30:37		47.75801695	-127.75863287	2657.243	EVT	33.630	1.870	have handle
2002/09/09 04:31:00		47.75801674	-127.75863258	2657.487	EVT	33.130	1.780	blank-text
2002/09/09 04:31:16		47.75801695	-127.75863264	2657.561	EVT	33.720	1.640	blank-text
2002/09/09 04:31:43		47.75801686	-127.75863264	2657.372	EVT	33.330	1.670	it is not budging
2002/09/09 04:32:02		47.75801704	-127.75863290	2657.831	EVT	33.580	1.360	will try top of biocolumn
2002/09/09 04:33:03		47.75801619	-127.75863150	2657.689	EVT	33.410	1.490	gave up on removing cone
2002/09/09 04:34:53		47.75801062	-127.75864262	2656.709	EVT	28.130	2.490	attempting to get height of cone
2002/09/09 04:35:48		47.75801488	-127.75864047	2655.972	EVT	27.940	3.330	we are to hover over cone and get temp on the hfs
2002/09/09 04:36:36		47.75801602	-127.75863936	2655.729	EVT	27.950	3.440	blank-text
2002/09/09 04:36:55		47.75801569	-127.75863989	2655.877	EVT	27.910	3.420	considering sampling here and now
2002/09/09 04:37:35		47.75801521	-127.75864004	2655.681	EVT	28.000	3.590	lots of shimmering water
2002/09/09 04:38:45		47.75801480	-127.75864026	2655.647	EVT	27.910	3.680	2.5 meters altitude
2002/09/09 04:40:14		47.75801255	-127.75863695	2655.911	EVT	12.250	3.290	hoses on side of nozzle may limit the depth of sample
2002/09/09 04:40:59		47.75801257	-127.75863676	2655.985	EVT	11.950	3.160	anemones, barine and bacterial mat on funnel
2002/09/09 04:41:52		47.75801240	-127.75863658	2655.918	EVT	11.490	3.220	preparing to put sampler nozzle in con
2002/09/09 04:42:15		47.75801225	-127.75863667	2655.884	EVT	11.600	3.260	background 1.8 on probe
2002/09/09 04:42:25		47.75801232	-127.75863670	2655.857	EVT	11.730	3.250	10 degrees
2002/09/09 04:42:32		47.75801228	-127.75863674	2655.871	EVT	11.570	3.250	22 degrees
2002/09/09 04:42:53		47.75801227	-127.75863679	2655.803	EVT	11.650	3.250	38 degrees, pump not on
2002/09/09 04:43:18		47.75801230	-127.75863707	2656.013	EVT	11.930	3.180	51 degrees max
2002/09/09 04:43:30		47.75801271	-127.75863687	2655.985	EVT	11.810	3.160	out of hole
2002/09/09 04:43:50		47.75801377	-127.75863662	2655.985	EVT	11.980	3.170	pulling in basket to get closer
2002/09/09 04:44:30		47.75801588	-127.75863607	2655.898	EVT	11.730	3.160	flush pump is now on
2002/09/09 04:44:51		47.75801125	-127.75863726	2656.533	EVT	12.490	2.740	moving to position 2 for sensors
2002/09/09 04:46:42		47.75801289	-127.75861865	2655.559	EVT	334.100	3.570	blank-text
2002/09/09 04:46:59		47.75801387	-127.75862443	2655.701	EVT	337.520	3.410	the two pre
2002/09/09 04:48:02		47.75801182	-127.75862612	2655.756	EVT	328.450	3.320	the two previous shots were looking down into the
	cone							
2002/09/09 04:48:51		47.75801178	-127.75862612	2655.810	EVT	328.170	3.260	probe back into cone
2002/09/09 04:49:28		47.75801186	-127.75862607	2655.789	EVT	328.370	3.290	blank-text
2002/09/09 04:49:31		47.75801188	-127.75862616	2655.850	EVT	328.430	3.290	blank-text

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/09	04:49:58	47.75801180	-127.75862616	2655.837	EVT	328.220	3.290	34 degrees
2002/09/09	04:50:12	47.75801306	-127.75862585	2655.810	EVT	328.310	3.280	54 degrees
2002/09/09	04:50:25	47.75801312	-127.75862597	2655.884	EVT	328.300	3.280	60 degrees
2002/09/09	04:50:42	47.75801311	-127.75862606	2655.762	EVT	328.330	3.280	61 degrees, pure fluid
2002/09/09	04:50:53	47.75801310	-127.75862606	2655.884	EVT	328.330	3.290	62 degrees
2002/09/09	04:51:43	47.75801300	-127.75862634	2655.850	EVT	328.440	3.280	t2 still warming up
2002/09/09	04:52:57	47.75801301	-127.75862624	2655.884	EVT	328.380	3.270	discussion about sampling
2002/09/09	04:54:20	47.75801285	-127.75862592	2655.904	EVT	328.350	3.300	ideal position for sampling, steady temperature, no improvement necessary
2002/09/09	04:56:06	47.75801266	-127.75862594	2655.945	EVT	328.420	3.300	62.4 t1,39.7 t2 steady
2002/09/09	04:56:25	47.75801264	-127.75862597	2655.864	EVT	328.440	3.280	piston 4 started
2002/09/09	04:56:39	47.75801265	-127.75862592	2655.904	EVT	328.430	3.280	this is a filtered piston
2002/09/09	05:00:29	47.75801248	-127.75862573	2655.816	EVT	328.500	3.280	exhaust
2002/09/09	05:00:45	47.75801247	-127.75862578	2655.938	EVT	328.380	3.290	pump off
2002/09/09	05:01:05	47.75801251	-127.75862585	2655.911	EVT	328.450	3.270	sample restarted
2002/09/09	05:03:37	47.75801236	-127.75862571	2655.952	EVT	328.410	3.270	stopped sample 62.5 max, average 62.4, t2 39.5, volume 714
2002/09/09	05:04:59	47.75801226	-127.75862571	2655.938	EVT	328.440	3.270	started b19
2002/09/09	05:05:12	47.75801226	-127.75862564	2656.006	EVT	328.350	3.290	this is an unfiltered bag
2002/09/09	05:06:26	47.75801206	-127.75862535	2655.918	EVT	328.450	3.270	shimmers
2002/09/09	05:06:37	47.75801206	-127.75862530	2656.073	EVT	328.410	3.270	close up
2002/09/09	05:07:33	47.75801204	-127.75862528	2655.992	EVT	328.450	3.280	pH=7.43 on sensor 2
2002/09/09	05:08:47	47.75801194	-127.75862507	2656.006	EVT	328.290	3.300	7.67 was starting pH on this log file, background SW
2002/09/09	05:11:15	47.75801188	-127.75862473	2655.938	EVT	328.510	3.290	stopped bag 19
2002/09/09	05:12:15	47.75801187	-127.75862462	2655.972	EVT	328.320	3.290	t max 62.5 t avg 62.5 volume 618 ml
2002/09/09	05:12:47	47.75801187	-127.75862464	2655.952	EVT	328.370	3.280	moving to dhem
2002/09/09	05:13:03	47.75801187	-127.75862463	2655.952	EVT	328.390	3.270	moving to chem filter 1
2002/09/09	05:14:26	47.75801189	-127.75862466	2656.100	EVT	328.490	3.270	starting gff filter #1
2002/09/09	05:24:23	47.75801139	-127.75862312	2656.148	EVT	328.390	3.270	stopping filter #1. Tmax=62.5, Tavg=62.5, volume=1041mL
2002/09/09	05:24:59	47.75801144	-127.75862306	2656.121	EVT	328.110	3.270	starting filter #6, sterivex
2002/09/09	05:36:21	47.75801152	-127.75862223	2656.317	EVT	328.430	3.270	stopping #6; Tmax=62.5, Tavg=62.5, Volume=1045mL
2002/09/09	05:36:56	47.75801144	-127.75862206	2656.134	EVT	328.420	3.270	Fish filter #13 started
2002/09/09	05:47:15	47.75801166	-127.75862194	2656.276	EVT	328.350	3.280	filter stopped
2002/09/09	05:47:56	47.75801166	-127.75862186	2656.418	EVT	328.450	3.290	gff filter 15 started
2002/09/09	05:58:00	47.75801133	-127.75862167	2656.439	EVT	328.380	3.280	filter stopped
2002/09/09	05:58:25	47.75801134	-127.75862164	2656.479	EVT	328.360	3.290	Tmax and Tavg = 62.5
2002/09/09	05:58:34	47.75801137	-127.75862156	2656.364	EVT	328.420	3.280	vol 1030mL
2002/09/09	05:58:42	47.75801141	-127.75862163	2656.411	EVT	328.390	3.280	done sampling
2002/09/09	05:59:40	47.75801115	-127.75862345	2656.466	EVT	328.380	3.240	blank-text

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/09 05:59:51		47.75801109	-127.75862334	2656.290	EVT	328.550	3.370	blank-text
2002/09/09 05:59:57		47.75801099	-127.75862340	2656.540	EVT	328.310	3.270	blank-text
2002/09/09 06:02:19		47.75801164	-127.75861660	2656.242	EVT	351.390	3.610	blank-text
2002/09/09 06:02:48		47.75801297	-127.75860779	2656.418	EVT	335.010	3.560	getting better view of hole
2002/09/09 06:03:04		47.75801225	-127.75860796	2655.904	EVT	335.060	3.800	blank-text
2002/09/09 06:03:46		47.75800986	-127.75860529	2656.337	EVT	334.790	3.570	blank-text
2002/09/09 06:05:22		47.75801014	-127.75860845	2656.155	EVT	333.620	3.840	blank-text
2002/09/09 06:05:28		47.75800996	-127.75860811	2655.945	EVT	333.730	3.930	blank-text
2002/09/09 06:05:32		47.75800982	-127.75860814	2656.188	EVT	333.650	3.770	blank-text
2002/09/09 06:05:38		47.75801046	-127.75860846	2656.087	EVT	333.770	3.720	blank-text
2002/09/09 06:05:57		47.75801074	-127.75860853	2656.195	EVT	333.640	3.790	blank-text
2002/09/09 06:06:20		47.75801114	-127.75860912	2656.317	EVT	333.660	3.660	blank-text
2002/09/09 06:07:17		47.75801281	-127.75860979	2656.445	EVT	333.580	3.430	blank-text
2002/09/09 06:08:33		47.75800505	-127.75861357	2656.932	EVT	0.080	3.080	blank-text
2002/09/09 06:08:50		47.75799935	-127.75861658	2656.716	EVT	5.430	3.270	blank-text
2002/09/09 06:10:41		47.75800073	-127.75861592	2657.764	EVT	11.460	2.240	blank-text
2002/09/09 06:10:45		47.75800065	-127.75861583	2657.784	EVT	11.350	2.280	biobox
2002/09/09 06:10:49		47.75800056	-127.75861543	2657.953	EVT	11.700	2.160	blank-text
2002/09/09 06:11:09		47.75800058	-127.75861525	2657.946	EVT	11.580	2.220	blank-text
2002/09/09 06:11:22		47.75800077	-127.75861538	2657.973	EVT	11.530	2.170	flow from underneath handle
2002/09/09 06:14:15		47.75802450	-127.75858860	2658.656	EVT	257.480	1.430	blank-text
2002/09/09 06:14:22		47.75802529	-127.75858845	2658.751	EVT	250.980	1.400	blank-text
2002/09/09 06:14:28		47.75802517	-127.75858884	2658.819	EVT	250.710	1.320	blank-text
2002/09/09 06:16:12		47.75801891	-127.75854851	2652.327	EVT	253.360	7.850	leaving 1026b
2002/09/09 06:28:01		47.75814768	-127.75851016	2572.305	EVT	23.190	30.000	in transit to Baby Bare
2002/09/09 06:50:05		47.75649297	-127.76014836	2558.552	EVT	14.480	30.000	watch change
2002/09/09 11:52:19		47.71625913	-127.79267524	2573.130	EVT	27.950	27.570	ship arrived - moving to thermal blanket
2002/09/09 12:10:58		47.71529646	-127.79241278	2605.482	EVT	343.030	3.040	bottom in sight
2002/09/09 12:11:03		47.71529884	-127.79241057	2605.448	EVT	355.590	3.130	starting tapes
2002/09/09 12:12:33		47.71531798	-127.79237486	2605.482	EVT	330.240	3.790	all tapes started
2002/09/09 12:14:41		47.71531287	-127.79236962	2605.550	EVT	330.160	3.870	will begin searching for thermal blanket once
everything is settled from transit								
2002/09/09 12:28:32		47.71544605	-127.79252604	2601.843	EVT	266.900	1.550	still looking for thermal blanket
2002/09/09 12:28:42		47.71544567	-127.79252509	2601.992	EVT	252.670	1.570	should be fairly close here
2002/09/09 12:30:19		47.71545660	-127.79253825	2601.478	EVT	350.240	2.670	thermal blanket here
2002/09/09 12:30:38		47.71546153	-127.79253353	2601.573	EVT	337.880	2.230	going to get a fix here to mark location
2002/09/09 12:32:40		47.71551853	-127.79254935	2601.174	EVT	3.970	2.460	blank-text
2002/09/09 12:32:47		47.71552180	-127.79255046	2601.106	EVT	4.160	2.500	grabs of thermal blanket
2002/09/09 12:32:49		47.71552162	-127.79255103	2601.127	EVT	3.960	2.500	blank-text
2002/09/09 12:32:53		47.71552136	-127.79255123	2601.201	EVT	4.010	2.490	blank-text
2002/09/09 12:32:59		47.71552105	-127.79255061	2600.700	EVT	4.100	3.060	going to go up and get a fix

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/09	12:34:11	47.71552705	-127.79255070	2602.540	EVT	6.700	1.110	coming back down to get thermal wubby - i mean blanket
2002/09/09	12:39:00	47.71571265	-127.79225253	2603.264	EVT	6.890	30.000	reaching for thermal wubby
2002/09/09	12:40:02	47.71566135	-127.79230548	2602.574	EVT	7.950	1.210	moving fifteen meters South to re-deploy thermal wubby
2002/09/09	12:42:46	47.71551292	-127.79225416	2598.989	EVT	177.250	5.010	going to put thermal wubby down here and then get a fix
2002/09/09	12:44:08	47.71553985	-127.79229189	2603.386	EVT	177.910	30.000	placing the t-wubby
2002/09/09	12:44:25	47.71552610	-127.79227436	2603.514	EVT	177.860	30.000	t-wubby in position
2002/09/09	12:44:36	47.71553160	-127.79226282	2603.406	EVT	177.830	30.000	going up to get a fix
2002/09/09	12:58:00	47.71543854	-127.79208658	2590.426	EVT	271.050	13.190	didnt get a successful fix on thermal blanket
2002/09/09	12:58:12	47.71543880	-127.79208618	2590.135	EVT	271.060	13.730	probably 2-4 meters S/SW of target 35
2002/09/09	12:58:20	47.71543865	-127.79208615	2590.257	EVT	271.070	13.420	going to elevator launch site now
2002/09/09	13:07:43	47.71556077	-127.79215098	2599.672	EVT	301.720	2.780	coming up on barrel samplers and old titanium probe
2002/09/09	13:08:12	47.71556071	-127.79215080	2599.645	EVT	301.550	2.710	we are about 15 to 18 meters North of thermal blanket now
2002/09/09	13:27:30	47.71593445	-127.79342564	2610.771	EVT	289.700	2.970	in position waiting for elevator to drop
2002/09/09	13:28:04	47.71594149	-127.79345475	2610.636	EVT	289.980	3.890	going to turn off tapes for now
2002/09/09	13:28:26	47.71595027	-127.79348971	2610.710	EVT	289.710	4.680	tapes off with 35 minutes to go on them
2002/09/09	13:49:30	47.71015751	-127.78720559	2610.480	EVT	289.760	10.620	elevator on the way
2002/09/09	13:49:43	47.71015764	-127.78720575	2610.548	EVT	289.750	10.720	tapes still off - elevator on the way down
2002/09/09	14:23:22	47.71004131	-127.78720401	2612.719	EVT	134.820	4.620	tapes started again
2002/09/09	14:23:27	47.71003981	-127.78720443	2612.631	EVT	134.080	4.690	following elevator on bottom
2002/09/09	14:24:19	47.71002010	-127.78723706	2612.428	EVT	99.690	4.560	blank-text
2002/09/09	14:24:26	47.71002002	-127.78723762	2612.611	EVT	99.820	4.340	marker 8
2002/09/09	14:26:26	47.70998298	-127.78719689	2612.475	EVT	144.380	2.960	playing with the focus on the pan and tilt
2002/09/09	14:33:01	47.70965093	-127.78699880	2625.088	EVT	154.880	8.230	ophidiiform
2002/09/09	14:33:38	47.70964806	-127.78699864	2627.706	EVT	154.590	6.060	ophidiiform
2002/09/09	14:39:15	47.70935304	-127.78687701	2637.735	EVT	154.530	2.870	octopus
2002/09/09	14:42:07	47.70922328	-127.78671530	2638.729	EVT	154.650	1.910	asteroid
2002/09/09	14:42:35	47.70920758	-127.78667398	2638.722	EVT	153.260	1.860	bioluminescene
2002/09/09	14:43:48	47.70916489	-127.78656405	2638.472	EVT	144.680	1.860	ophiuroid
2002/09/09	14:44:41	47.70912561	-127.78649507	2638.634	EVT	177.320	1.390	holothurian
2002/09/09	14:46:21	47.70906396	-127.78642228	2638.627	EVT	174.670	1.610	following the elevator
2002/09/09	14:46:43	47.70903819	-127.78641935	2638.546	EVT	164.730	2.020	expect to see elevator touchdown in about 5 mins.
2002/09/09	14:58:28	47.70841719	-127.78610794	2644.362	EVT	210.660	2.940	octopus
2002/09/09	14:59:03	47.70840539	-127.78611814	2644.429	EVT	280.870	4.240	sea fan
2002/09/09	15:00:16	47.70840381	-127.78609794	2644.409	EVT	339.510	4.430	same sea fan
2002/09/09	15:05:11	47.70838673	-127.78583544	2651.543	ASNAPEVT	89.420	3.490	
2002/09/09	15:07:59	47.70832398	-127.78531062	2653.761	EVT	97.050	7.190	at elevator
2002/09/09	15:08:24	47.70831225	-127.78521787	2657.446	EVT	97.370	3.470	blank-text

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/09	15:08:47	47.70830898	-127.78520123	2657.554	EVT	99.400	3.400	will be moving to probe 3
2002/09/09	15:09:10	47.70832106	-127.78518501	2657.676	EVT	117.070	3.230	blank-text
2002/09/09	15:10:04	47.70832242	-127.78518669	2657.602	EVT	137.800	3.370	maps and barrel sampler aboard elevator
2002/09/09	15:11:01	47.70832281	-127.78517910	2657.764	EVT	143.770	3.270	40 meters to probe 3
2002/09/09	15:12:51	47.70832206	-127.78518058	2657.608	EVT	145.600	3.400	elevator in the grasp
2002/09/09	15:15:28	47.70832237	-127.78517595	2654.288	EVT	22.420	7.050	correction: target is 180 m bearing 351 to probe 3
2002/09/09	15:17:30	47.70837865	-127.78519068	2650.623	EVT	351.300	10.480	blank-text
2002/09/09	15:20:46	47.70849604	-127.78521691	2643.388	EVT	351.550	17.920	pilots see a scarp ahead on sonar
2002/09/09	15:39:24	47.70923852	-127.78525106	2608.965	EVT	347.620	13.190	35 knot winds forcecast for later today. This may delay elevator retrieval until tomorrow morning.
2002/09/09	15:45:23	47.70962782	-127.78535448	2598.827	EVT	346.980	12.750	the elevator now being moved will be set near the lang sampler but not attached until tomorrow morning--weather concerns
2002/09/09	15:51:17	47.70983057	-127.78558443	2591.218	EVT	347.440	10.300	approximately 5 minutes to probe 3
2002/09/09	15:54:19	47.70985802	-127.78558768	2591.096	EVT	344.120	9.720	holding position to clear jam in counterbalance
2002/09/09	15:56:30	47.70985787	-127.78558801	2591.028	EVT	344.260	9.930	The counterbalance is in the winch room and the ship is stopped.
2002/09/09	16:03:23	47.70985789	-127.78558783	2590.988	EVT	344.190	9.990	call from control room: don't use the winch.
2002/09/09	16:04:35	47.70982490	-127.78557346	2591.062	EVT	344.450	10.610	Since site is upsloap
2002/09/09	16:13:14	47.70976253	-127.78562228	2590.974	EVT	351.210	11.120	Bridge is calling for an engineer
2002/09/09	16:19:58	47.70981566	-127.78563336	2591.028	EVT	351.270	9.900	lange sampler in the distance
2002/09/09	16:21:34	47.70985793	-127.78564342	2590.994	EVT	351.480	8.690	need to see where the Lang sampler is relative to probe 3
2002/09/09	16:24:05	47.70985701	-127.78564299	2592.144	EVT	351.150	7.640	jam cleared in counter balance
2002/09/09	16:26:12	47.70988523	-127.78572645	2592.232	EVT	350.920	9.390	probe 3 at about 7 o'clock from Lange sampler from this view
2002/09/09	16:28:31	47.70990859	-127.78575395	2592.002	EVT	355.940	10.440	probe 3 is closer to 8 o'clock from the lang sampler
2002/09/09	16:30:29	47.70993252	-127.78575570	2592.253	EVT	4.290	9.850	elevator will be placed due west 2-3 meters from PROBE 3
2002/09/09	16:34:38	47.70993047	-127.78575844	2597.150	EVT	3.920	4.820	elevator set down at probe 3
2002/09/09	16:35:08	47.70991541	-127.78575879	2596.865	EVT	14.400	5.440	elevatpr from above
2002/09/09	16:35:59	47.70991555	-127.78575889	2597.122	EVT	8.560	4.930	slightly S of W of probe 3
2002/09/09	16:36:01	47.70991553	-127.78575907	2597.285	EVT	5.140	4.810	blank-text
2002/09/09	16:36:43	47.70991552	-127.78575903	2597.941	EVT	0.180	3.900	3-4 meters slightly S of W of probe 3
2002/09/09	16:38:27	47.70990575	-127.78574581	2598.556	EVT	0.450	3.180	We next take a look at the lang sampler
2002/09/09	16:39:09	47.70990626	-127.78574658	2598.671	EVT	43.610	4.010	mav at 4
2002/09/09	16:39:41	47.70990637	-127.78574643	2598.671	EVT	43.240	4.000	blank-text
2002/09/09	16:39:47	47.70990620	-127.78574646	2598.752	EVT	43.260	3.970	043 degrees
2002/09/09	16:41:11	47.70990913	-127.78571273	2598.238	EVT	11.080	2.610	probe and Lang sampler
2002/09/09	16:41:40	47.70990713	-127.78569754	2598.110	EVT	11.070	2.280	blank-text
2002/09/09	16:41:52	47.70990733	-127.78569882	2598.205	EVT	11.090	2.170	blank-text
2002/09/09	16:42:07	47.70990706	-127.78569901	2598.042	EVT	11.060	2.310	octopus on base of Lang sampler

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/09	16:42:29	47.70990619	-127.78569046	2598.076	EVT	11.340	2.130	blank-text
2002/09/09	16:43:02	47.70990951	-127.78567273	2597.163	EVT	11.260	2.320	file cabiners
2002/09/09	16:45:00	47.70991821	-127.78566867	2596.311	EVT	10.940	2.950	spinning lang sampler for side view
2002/09/09	16:45:37	47.70991857	-127.78566851	2596.480	EVT	11.170	2.880	side view
2002/09/09	16:45:55	47.70991859	-127.78566895	2596.460	EVT	11.060	2.820	blank-text
2002/09/09	16:47:01	47.70991833	-127.78566905	2596.324	EVT	11.270	2.930	blank-text
2002/09/09	16:47:39	47.70991828	-127.78566833	2596.297	EVT	11.250	2.920	holding sampler in place for inspection
2002/09/09	16:48:19	47.70991835	-127.78566863	2596.480	EVT	11.500	2.770	pump is moving--appears to be working
2002/09/09	16:50:22	47.70990775	-127.78576288	2599.774	EVT	356.960	2.260	about to pick up mav sampler from elevator
2002/09/09	16:51:47	47.70992004	-127.78576647	2600.971	EVT	357.270	1.360	mav sampler will go next to probe 4
2002/09/09	16:52:44	47.70992162	-127.78577196	2600.984	EVT	357.070	1.410	blank-text
2002/09/09	16:55:08	47.70991911	-127.78577450	2601.133	EVT	355.450	1.380	blank-text
2002/09/09	16:56:28	47.70991889	-127.78577239	2601.079	EVT	356.900	1.380	mav sampler on its way to probe 4
2002/09/09	16:56:39	47.70991883	-127.78577289	2601.248	EVT	357.370	1.320	blank-text
2002/09/09	16:57:13	47.70991739	-127.78577263	2601.201	EVT	355.890	1.300	blank-text
2002/09/09	17:00:11	47.70988543	-127.78570835	2598.394	EVT	19.990	2.880	outlet of mav sampler
2002/09/09	17:04:44	47.70989305	-127.78561891	2597.136	EVT	20.100	1.440	at probe 4
2002/09/09	17:05:33	47.70989175	-127.78562068	2596.629	EVT	22.210	1.930	two mavx at probe 4
2002/09/09	17:07:41	47.70989971	-127.78562844	2597.035	EVT	26.920	1.580	view from above probe 4
2002/09/09	17:09:16	47.70989967	-127.78562371	2597.224	EVT	14.150	1.250	disconnected mav sampler
2002/09/09	17:15:09	47.70989096	-127.78561638	2597.136	EVT	338.320	0.920	preparing to connect new mav to probe 4
2002/09/09	17:16:57	47.70988961	-127.78561583	2597.339	EVT	326.750	0.790	nozzle about to be attached to probe 4
2002/09/09	17:17:24	47.70988870	-127.78561702	2597.224	EVT	315.840	0.750	nozzle of mav on probe 4
2002/09/09	17:18:02	47.70988836	-127.78561762	2597.292	EVT	308.000	30.000	blank-text
2002/09/09	17:19:28	47.70989327	-127.78561863	2597.481	EVT	308.500	30.000	blank-text
2002/09/09	17:20:00	47.70989799	-127.78561989	2597.481	EVT	306.860	30.000	rock attached to bottom of mav
2002/09/09	17:23:12	47.70983510	-127.78566638	2596.108	EVT	327.020	3.050	moving previous mav to elevator for recovery
2002/09/09	17:24:54	47.70982748	-127.78578011	2598.590	EVT	2.330	5.060	elevator is close to marker 23
2002/09/09	17:25:41	47.70984735	-127.78579656	2601.066	EVT	10.950	3.030	marker is near the push core
2002/09/09	17:25:55	47.70985147	-127.78579432	2600.572	EVT	10.650	3.500	good shot of marker
2002/09/09	17:26:48	47.70985942	-127.78579260	2600.910	EVT	23.620	3.100	blank-text
2002/09/09	17:31:34	47.70987446	-127.78578316	2600.687	EVT	23.530	2.940	mav on elevator
2002/09/09	17:38:24	47.70988033	-127.78578002	2601.384	EVT	14.370	1.740	blank-text
2002/09/09	17:38:35	47.70988056	-127.78578002	2601.377	EVT	14.560	1.760	blank-text
2002/09/09	17:38:38	47.70988043	-127.78577993	2601.363	EVT	14.520	1.730	blank-text
2002/09/09	17:38:51	47.70988040	-127.78577998	2601.377	EVT	14.580	1.720	blank-text
2002/09/09	17:41:06	47.70987552	-127.78578327	2601.262	EVT	14.580	2.000	blank-text
2002/09/09	17:44:01	47.70987975	-127.78578916	2601.641	EVT	13.470	1.830	blank-text
2002/09/09	17:46:52	47.70987862	-127.78578049	2601.641	EVT	14.680	1.570	mav secure
2002/09/09	17:51:53	47.70987079	-127.78581372	2601.945	EVT	36.310	2.910	blank-text
2002/09/09	17:52:08	47.70987079	-127.78581404	2601.979	EVT	36.570	2.700	blank-text

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/09	17:52:58	47.70987076	-127.78581405	2601.925	EVT	36.540	2.860	going to thermal blanket
2002/09/09	17:53:11	47.70987070	-127.78581370	2601.904	EVT	36.690	2.780	octopus
2002/09/09	17:53:19	47.70987063	-127.78581378	2601.918	EVT	36.660	2.810	blank-text
2002/09/09	17:53:33	47.70987079	-127.78581421	2601.979	EVT	36.630	2.710	blank-text
2002/09/09	18:01:36	47.70966725	-127.78569638	2601.877	EVT	121.890	2.580	found thermal blanket
2002/09/09	18:04:16	47.70959502	-127.78563912	2601.898	EVT	116.280	2.340	blank-text
2002/09/09	18:06:54	47.70957141	-127.78562450	2603.054	EVT	57.500	1.620	grabbing blanket
2002/09/09	18:09:13	47.70954037	-127.78565439	2597.177	EVT	57.000	9.040	putting blanket in basket
2002/09/09	18:18:15	47.70994868	-127.78529011	2589.926	EVT	13.310	14.870	transporting blanket to summit
2002/09/09	18:27:03	47.71039664	-127.78573009	2589.581	EVT	239.230	2.420	blank-text
2002/09/09	18:27:15	47.71039622	-127.78572919	2589.303	EVT	238.990	2.620	blank-text
2002/09/09	18:27:23	47.71039631	-127.78572970	2589.506	EVT	239.360	2.470	blank-text
2002/09/09	18:38:00	47.71027650	-127.78572520	2590.311	EVT	176.610	1.500	setting down blanket
2002/09/09	18:38:40	47.71027818	-127.78572505	2590.399	EVT	175.940	1.490	6m south of nav marker 17
2002/09/09	18:38:52	47.71028430	-127.78572594	2590.514	EVT	176.050	1.430	blank-text
2002/09/09	18:38:55	47.71028620	-127.78572590	2590.420	EVT	175.630	1.410	blank-text
2002/09/09	18:39:02	47.71029053	-127.78572655	2590.420	EVT	175.880	1.480	blank-text
2002/09/09	18:39:10	47.71029449	-127.78572702	2590.386	EVT	176.030	1.430	blank-text
2002/09/09	18:39:17	47.71029341	-127.78572660	2590.636	EVT	176.110	1.320	blank-text
2002/09/09	18:39:24	47.71029333	-127.78572687	2590.264	EVT	175.880	1.570	blank-text
2002/09/09	18:43:38	47.71037735	-127.78573522	2590.453	EVT	199.910	1.670	blank-text
2002/09/09	18:43:51	47.71037726	-127.78573503	2590.453	EVT	199.970	1.550	returning to probe 3
2002/09/09	19:18:54	47.70984426	-127.78581058	2601.228	EVT	45.350	4.980	Big rattail
2002/09/09	19:19:07	47.70984209	-127.78581425	2600.531	EVT	45.290	5.820	big rattail
2002/09/09	19:24:33	47.70987281	-127.78570777	2599.882	EVT	32.880	2.450	Looking for a spot to take a push core sample
2002/09/09	19:25:19	47.70987478	-127.78570738	2601.316	EVT	32.120	1.030	taking push core
2002/09/09	19:25:28	47.70987469	-127.78570750	2601.248	EVT	32.160	1.010	push core in the ground
2002/09/09	19:25:42	47.70987452	-127.78570761	2601.275	EVT	31.980	0.900	push core 5 has one red tape
2002/09/09	19:25:59	47.70987422	-127.78570720	2601.343	EVT	31.950	0.920	push core 5 identified by one red band on it
2002/09/09	19:28:52	47.70987186	-127.78565017	2597.156	EVT	330.680	2.310	inspecting the lang sampler
2002/09/09	19:29:02	47.70987239	-127.78565059	2596.757	EVT	330.740	2.690	Lang sampler
2002/09/09	19:42:48	47.71023475	-127.78572353	2589.797	EVT	323.970	3.560	thermal blanket
2002/09/09	19:43:14	47.71023447	-127.78572465	2589.682	EVT	323.720	3.620	thermal blanket next to someone else's marker
2002/09/09	19:58:20	47.71038544	-127.78589117	2589.845	EVT	88.300	3.750	stars on rocks
2002/09/09	20:01:06	47.71036099	-127.78589537	2591.035	EVT	268.740	2.040	swing down to go to target
2002/09/09	20:01:24	47.71035170	-127.78591253	2591.123	EVT	268.360	2.010	going from target 29 to target 18, to try find a fault
	scarp							
2002/09/09	20:12:14	47.71018517	-127.78641666	2601.262	EVT	31.730	4.990	at nav taget 18
2002/09/09	20:23:23	47.71002533	-127.78615866	2602.932	EVT	10.600	1.740	at target 18, going to grab an outcrop to see what it
	feels like							
2002/09/09	20:25:17	47.71002594	-127.78615718	2603.189	EVT	13.690	1.710	blank-text

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/09	20:25:27	47.71002624	-127.78615644	2603.284	EVT	14.840	1.520	blank-text
2002/09/09	20:25:38	47.71002607	-127.78615605	2603.169	EVT	14.660	1.670	blank-text
2002/09/09	20:25:47	47.71002599	-127.78615600	2603.129	EVT	13.930	1.630	grabbing a rock, can;t get it though
2002/09/09	20:30:12	47.71002834	-127.78615701	2602.824	EVT	9.340	1.640	still grabbing rocks
2002/09/09	20:35:55	47.71004999	-127.78614668	2601.728	EVT	10.090	1.370	trying another rock
2002/09/09	20:36:08	47.71004960	-127.78614704	2601.728	EVT	9.760	1.450	blank-text
2002/09/09	20:36:33	47.71004927	-127.78614772	2601.674	EVT	9.290	1.400	looking at what we picked up
2002/09/09	20:37:35	47.71004919	-127.78614726	2601.796	EVT	9.110	1.370	we are taking this sample,
2002/09/09	20:37:46	47.71004903	-127.78614709	2601.769	EVT	9.090	1.360	blank-text
2002/09/09	20:37:47	47.71004905	-127.78614699	2601.830	EVT	9.130	1.380	blank-text
2002/09/09	20:37:48	47.71004905	-127.78614699	2601.830	EVT	9.130	1.380	blank-text
2002/09/09	20:37:49	47.71004906	-127.78614694	2601.647	EVT	9.190	1.390	blank-text
2002/09/09	20:41:28	47.71004617	-127.78614757	2601.688	EVT	9.650	1.410	tryin another rock
2002/09/09	20:42:20	47.71004575	-127.78614733	2601.681	EVT	8.400	1.380	the rock is attached
2002/09/09	21:02:45	47.71006759	-127.78630865	2605.070	EVT	56.650	2.770	Reaching for a rock
2002/09/09	21:04:50	47.71006719	-127.78630689	2604.928	EVT	58.170	2.500	Closing Jason's hand around rock
2002/09/09	21:11:04	47.71006545	-127.78630062	2604.928	EVT	58.170	2.390	we will try to use the weight we found to break off
some rocks								
2002/09/09	21:11:52	47.71006556	-127.78630008	2604.684	EVT	57.160	2.990	moving the weight
2002/09/09	21:12:09	47.71006577	-127.78630046	2604.792	EVT	57.820	2.630	fish shecking it out
2002/09/09	21:12:17	47.71006580	-127.78630048	2604.873	EVT	57.790	2.380	fish checking it out
2002/09/09	21:14:27	47.71006415	-127.78630023	2604.813	EVT	58.510	2.950	attempting --> picking up the weight
2002/09/09	21:14:31	47.71006397	-127.78629992	2604.657	EVT	58.460	3.130	amazing
2002/09/09	21:14:47	47.71006377	-127.78629844	2604.880	EVT	57.760	2.590	boom
2002/09/09	21:14:57	47.71006380	-127.78629868	2604.840	EVT	58.140	2.550	breaking off some rock
2002/09/09	21:16:57	47.71006344	-127.78629844	2604.887	EVT	58.160	2.550	waiting for water to clear
2002/09/09	21:17:37	47.71006279	-127.78629874	2604.880	EVT	58.190	2.600	breaking off some rock
2002/09/09	21:18:46	47.71006271	-127.78629916	2605.002	EVT	57.720	2.460	the rock here is too tough to break off a piece
2002/09/09	21:27:41	47.71020785	-127.78599023	2594.620	EVT	74.910	1.530	we will try to get some rock from the overhang
2002/09/09	21:28:14	47.71020921	-127.78599043	2594.755	EVT	72.170	1.440	breaking off some rock
2002/09/09	21:29:20	47.71020913	-127.78598958	2594.708	EVT	71.780	1.520	rock
2002/09/09	21:29:31	47.71020914	-127.78598963	2594.681	EVT	71.750	1.460	looks like crust
2002/09/09	21:29:47	47.71020920	-127.78598978	2594.715	EVT	71.780	1.470	examining side
2002/09/09	21:29:56	47.71020929	-127.78598969	2594.796	EVT	71.790	1.490	zoom in on surface
2002/09/09	21:33:34	47.71021686	-127.78599611	2594.180	EVT	89.440	1.630	we see what looks like a marker in MEDEA 's
camera view								
2002/09/09	21:34:27	47.71022198	-127.78598575	2594.194	EVT	88.410	1.370	trying to pick up another rock
2002/09/09	21:35:52	47.71023616	-127.78598226	2594.160	EVT	89.190	1.170	octopus
2002/09/09	21:36:09	47.71023682	-127.78598220	2593.984	EVT	89.420	1.260	moving around group of rocks
2002/09/09	21:36:40	47.71023563	-127.78598245	2594.065	EVT	89.770	1.210	we are being careful not to disturb octopus eggs
2002/09/09	21:38:47	47.71023877	-127.78597093	2592.097	EVT	89.850	3.080	funny marker

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/09	21:40:14	47.71027834	-127.78593314	2593.112	EVT	61.130	0.810	maybe we can get a rock from this location
2002/09/09	21:41:44	47.71027949	-127.78593107	2592.868	EVT	59.940	0.870	grabbing a rock
2002/09/09	21:43:37	47.71027180	-127.78593602	2593.139	EVT	61.550	30.000	picked up the rock
2002/09/09	21:43:47	47.71027108	-127.78593611	2593.152	EVT	61.440	30.000	examining the rock
2002/09/09	21:43:55	47.71027081	-127.78593678	2593.105	EVT	61.460	30.000	zoom view
2002/09/09	21:44:03	47.71027067	-127.78593663	2593.159	EVT	61.620	30.000	rotated view
2002/09/09	21:44:29	47.71026956	-127.78593722	2593.166	EVT	61.900	0.670	we will not take that rock
2002/09/09	21:47:38	47.71030285	-127.78592386	2593.024	EVT	111.000	1.330	grabbing a different rock
2002/09/09	21:47:50	47.71030309	-127.78592379	2592.956	EVT	111.030	1.360	rock
2002/09/09	21:48:07	47.71030320	-127.78592393	2592.936	EVT	111.050	1.300	examining
2002/09/09	21:48:19	47.71030336	-127.78592407	2592.922	EVT	111.070	1.300	spinning
2002/09/09	21:48:34	47.71030330	-127.78592419	2593.044	EVT	111.050	1.300	Christian look
2002/09/09	22:27:39	47.70977283	-127.78584191	2605.496	EVT	95.560	3.220	blank-text
2002/09/09	22:27:41	47.70977277	-127.78584208	2605.496	EVT	102.820	3.200	blank-text
2002/09/09	22:49:21	47.71002041	-127.78573050	2594.972	EVT	347.320	2.800	have spotted another rock and are driving to it
2002/09/09	22:51:37	47.71002811	-127.78571116	2596.142	EVT	349.050	30.000	reaching for the rock
2002/09/09	22:52:54	47.71003449	-127.78570149	2596.230	EVT	348.470	30.000	Jason is trying to get a grip on the rock
2002/09/09	22:59:40	47.71018273	-127.78573050	2593.626	EVT	59.850	0.930	picking up another rock
2002/09/09	23:00:04	47.71018187	-127.78573187	2593.808	EVT	60.260	0.920	got it!
2002/09/09	23:00:34	47.71018140	-127.78573235	2593.666	EVT	59.900	1.110	close up of the rock
2002/09/09	23:00:58	47.71018031	-127.78573267	2593.795	EVT	60.070	0.880	rotating the rock; it is covered in starfish
2002/09/09	23:02:21	47.71017668	-127.78573460	2593.693	EVT	59.390	0.970	not sure if there is a rock inside
2002/09/09	23:02:57	47.71017706	-127.78573806	2593.835	EVT	58.840	30.000	rock encrusted with asteroids and ophiuroids
2002/09/09	23:04:12	47.71006120	-127.78573169	2592.834	EVT	172.980	3.160	skate
2002/09/09	23:08:28	47.71000883	-127.78561045	2594.613	EVT	146.580	1.760	going to grab the rock with Jason's left arm to break apart the rock
2002/09/09	23:12:06	47.71000880	-127.78561037	2594.735	EVT	146.580	1.710	a vicious assault on a colony of harmless stelleroids
2002/09/09	23:13:35	47.71000875	-127.78561056	2594.573	EVT	146.490	1.870	contact!
2002/09/09	23:13:52	47.71000884	-127.78561040	2594.485	EVT	146.480	1.900	stuff is falling off the rock
2002/09/09	23:14:23	47.71000870	-127.78561070	2594.742	EVT	146.650	1.780	close up of the rock
2002/09/09	23:14:28	47.71000880	-127.78561062	2594.525	EVT	146.650	1.880	not a rock
2002/09/09	23:15:10	47.71000874	-127.78561079	2594.620	EVT	146.460	1.860	consensus: it is not a basaltic rock
2002/09/09	23:18:36	47.71000886	-127.78561021	2594.586	EVT	146.490	1.770	we have heartlessly discarded that 'rock'
2002/09/09	23:25:39	47.70997146	-127.78553787	2596.142	EVT	293.820	3.390	Dave's plan: low-flying survey to 20m SW of target 44 to search for hot springs
2002/09/09	23:43:11	47.70986532	-127.78609104	2612.820	EVT	336.640	3.320	in sight of the bottom again
2002/09/09	23:44:41	47.70985806	-127.78607811	2614.903	EVT	359.590	1.930	a little bit of a thermal anomaly here: 1.78
2002/09/09	23:46:13	47.70985169	-127.78607351	2615.810	EVT	0.880	1.160	thermal anomaly of 1.79
2002/09/09	23:46:13	47.70985155	-127.78607381	2615.864	EVT	0.870	1.170	TEMP 1.79
2002/09/09	23:47:39	47.70985627	-127.78606633	2615.647	EVT	0.960	1.220	TEMP 1.8
2002/09/09	23:47:52	47.70985635	-127.78606638	2615.674	EVT	0.960	1.220	1.8 in the stirred-up sediment

Event log: LEXEN 2002

Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/09 23:49:26		47.70986288	-127.78607559	2614.586	EVT	0.750	2.140	crinoid
2002/09/09 23:49:43		47.70986418	-127.78607627	2614.606	EVT	1.100	2.370	unstaked crinoids
2002/09/09 23:50:01		47.70986017	-127.78607324	2614.809	EVT	0.970	2.010	stirred up some sediment
2002/09/09 23:51:00		47.70985726	-127.78607582	2614.187	EVT	0.900	2.890	typical benthic fauna of Baby Bare: ophiuroids, stalkless crinoids, and clam shells
2002/09/09 23:51:27		47.70985720	-127.78607547	2614.220	EVT	1.250	2.850	are those clam shells?
2002/09/09 23:51:59		47.70985701	-127.78607574	2614.051	EVT	1.170	2.960	looking for rocks...with ophiuroids!
2002/09/09 23:52:05		47.70985705	-127.78607562	2614.119	EVT	1.210	2.940	crinoid
2002/09/09 23:52:23		47.70985708	-127.78607544	2614.065	EVT	1.310	3.040	ophidiiform
2002/09/09 23:52:35		47.70985715	-127.78607573	2614.342	EVT	1.150	2.760	ophidiiform
2002/09/09 23:52:45		47.70985702	-127.78607524	2614.065	EVT	1.240	3.010	ophidiiform
2002/09/09 23:53:32		47.70985711	-127.78607526	2614.227	EVT	1.160	2.880	going to use the temperature probe in this area
2002/09/09 23:54:08		47.70985713	-127.78607534	2614.220	EVT	1.180	2.730	were those red spheres a few frames back
		Gigantocypris???						
2002/09/09 23:55:05		47.70986252	-127.78607085	2614.998	EVT	1.160	1.630	crinoid closeup
2002/09/09 23:55:40		47.70986158	-127.78607301	2614.985	EVT	1.860	1.630	crinoids with sediment washing over them
2002/09/10 00:00:53		47.70985873	-127.78606789	2614.991	EVT	1.360	1.570	going to do an ICL by the crinoids
2002/09/10 00:01:47		47.70985309	-127.78607533	2614.985	EVT	1.300	1.570	picked up the ICL temp probe
2002/09/10 00:03:08		47.70984906	-127.78607696	2615.012	EVT	1.250	1.570	ICL with swimming creatutre
2002/09/10 00:03:34		47.70984873	-127.78607657	2614.964	EVT	1.230	1.580	having trouble getting the ICL to send back data
2002/09/10 00:03:56		47.70984857	-127.78607659	2615.059	EVT	1.210	1.650	Background water temperature of 2.1
2002/09/10 00:04:31		47.70984919	-127.78607534	2614.958	EVT	1.190	1.590	TEMP up to 3.5 in the sediment
2002/09/10 00:05:50		47.70985259	-127.78606860	2614.930	EVT	1.190	1.600	swimming polychaete?
2002/09/10 00:06:02		47.70985267	-127.78606831	2614.917	EVT	1.180	1.620	stuck the ICL in another location: 2.2
2002/09/10 00:06:31		47.70985304	-127.78606810	2615.073	EVT	1.190	1.590	ff
2002/09/10 00:06:44		47.70985264	-127.78606834	2614.991	EVT	1.200	1.580	CTD: 1.825
2002/09/10 00:06:58		47.70985264	-127.78606809	2614.971	EVT	1.200	1.580	1.856 temperature!!
2002/09/10 00:07:11		47.70985237	-127.78606829	2614.849	EVT	1.190	1.590	that was a a floating elasipod holothurian that just went by in frame "ff"
2002/09/10 00:08:11		47.70985698	-127.78606200	2614.849	EVT	1.210	1.600	ICL in yet another location in the sediment: 3.3
2002/09/10 00:09:05		47.70985967	-127.78605901	2615.045	EVT	1.220	1.610	ending ICL
2002/09/10 00:09:27		47.70985826	-127.78606095	2614.991	EVT	1.480	1.590	still getting CTD spikes of up to 1.84 but this location is obviously not the source
2002/09/10 00:11:13		47.70985699	-127.78606240	2614.863	EVT	1.540	1.570	ICL on top of shelf covered with crinoids
2002/09/10 00:11:24		47.70985721	-127.78606201	2614.890	EVT	1.540	1.590	ICL put back
2002/09/10 00:11:54		47.70985803	-127.78606067	2614.890	EVT	1.550	1.580	holothurian
2002/09/10 00:12:59		47.70985773	-127.78605959	2614.809	EVT	1.400	1.580	those off-white pulsating swimmers are elasipods
2002/09/10 00:13:17		47.70985746	-127.78605917	2614.795	EVT	1.390	1.570	selecting a rock to pick up
2002/09/10 00:13:30		47.70985742	-127.78605907	2614.930	EVT	1.390	1.590	elasipod is back, by the arm
2002/09/10 00:13:54		47.70985752	-127.78605902	2614.971	EVT	1.410	1.600	assaulting a crinoid
2002/09/10 00:15:27		47.70985750	-127.78605839	2614.856	EVT	0.920	1.560	elasipod top right

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/10 00:17:43		47.70985886	-127.78605670	2614.775	EVT	1.610	1.600	aiming for something that looks like a real rock
2002/09/10 00:18:01		47.70985883	-127.78605683	2614.944	EVT	1.590	1.590	but it slipped through Jason's fingers
2002/09/10 00:19:03		47.70985916	-127.78605652	2614.930	EVT	1.560	1.570	breaking up some of this manganese crusty stuff
2002/09/10 00:20:14		47.70985969	-127.78605565	2614.897	EVT	1.670	1.550	that wacky elasipod simply won't go away
2002/09/10 00:20:41		47.70985812	-127.78605733	2614.802	EVT	1.680	1.560	after getting a fix here we are going to move to look
		for some more rocks and hot springs						
2002/09/10 00:21:48		47.70986007	-127.78603423	2613.321	EVT	1.120	2.120	stirring up some sediment as we go along
2002/09/10 00:31:33		47.70983916	-127.78602490	2608.918	EVT	353.690	7.070	there's the bottom in view again
2002/09/10 00:33:05		47.70983965	-127.78602460	2607.755	EVT	353.770	8.280	something happened: big chunks of sediment flying
		around						
2002/09/10 00:33:44		47.70987265	-127.78603082	2607.674	EVT	353.560	6.960	ophidiiform and octopod
2002/09/10 00:37:32		47.70988298	-127.78597173	2608.140	EVT	352.760	4.470	one fish, two fish
2002/09/10 00:38:26		47.70989024	-127.78595050	2609.168	EVT	355.900	2.830	ophidiiform near bottom
2002/09/10 00:41:37		47.70986005	-127.78593975	2608.769	EVT	353.590	3.790	elasipod
2002/09/10 00:43:22		47.70988901	-127.78595158	2608.194	EVT	353.350	3.780	another ophidiiform
2002/09/10 00:43:46		47.70989337	-127.78595244	2608.140	EVT	353.810	3.340	ophidiiform swimming along bottom
2002/09/10 00:44:54		47.70990804	-127.78597603	2606.152	EVT	353.520	4.950	ophiuroids
2002/09/10 00:46:06		47.70993450	-127.78597706	2606.111	EVT	353.740	2.790	CTD readings of 1.8
2002/09/10 00:46:47		47.70994607	-127.78599000	2605.834	EVT	354.570	2.050	touchdown
2002/09/10 00:48:15		47.70994523	-127.78599007	2605.279	EVT	354.430	3.200	another grab at potential rocks
2002/09/10 00:51:35		47.70998027	-127.78599974	2603.338	EVT	1.580	2.260	stalk in the midst of ophiuroids
2002/09/10 00:52:09		47.70998016	-127.78599992	2603.304	EVT	2.000	2.250	trying to get a rock or rock-like object
2002/09/10 00:53:32		47.70997946	-127.78599922	2603.284	EVT	1.710	2.160	tugging at seafloor
2002/09/10 00:54:31		47.71001052	-127.78597642	2601.269	EVT	1.430	2.290	cruising for rocks
2002/09/10 00:55:15		47.71001466	-127.78597730	2601.573	EVT	3.270	1.700	will the rock dislodge?
2002/09/10 00:55:36		47.71001519	-127.78597759	2601.600	EVT	3.130	1.650	no, it seems not
2002/09/10 00:57:42		47.71001418	-127.78598067	2601.438	EVT	3.090	1.730	Rock hunting south of nav marker 44
2002/09/10 01:00:00		47.71001389	-127.78598093	2601.492	EVT	1.850	1.710	poking around for rocks
2002/09/10 01:00:55		47.71001301	-127.78598008	2601.532	EVT	2.000	1.640	rock formation that looks like a toadstool
2002/09/10 01:01:34		47.71001274	-127.78597935	2601.593	EVT	1.160	1.650	the perfect rock: does it exist?
2002/09/10 01:02:59		47.71007460	-127.78596441	2597.582	EVT	2.040	2.910	we are slowly heading to nav target 17 looking for
		rocks along the way						
2002/09/10 01:03:53		47.71012195	-127.78591764	2595.763	EVT	2.420	2.740	manganese nodules?
2002/09/10 01:04:50		47.71012709	-127.78591644	2596.737	EVT	0.990	1.510	going for a crusty rock
2002/09/10 01:06:57		47.71015925	-127.78592584	2591.705	EVT	358.940	5.470	didn't work
2002/09/10 01:07:06		47.71017330	-127.78592623	2591.373	EVT	1.730	4.860	medea view shows lots of rocks ahead
2002/09/10 01:08:23		47.71024455	-127.78591345	2591.103	EVT	58.990	2.890	marker 4 in view
2002/09/10 01:09:37		47.71024733	-127.78575291	2589.993	EVT	78.050	2.580	here is the thermal blanket
2002/09/10 01:10:25		47.71023459	-127.78565907	2589.506	EVT	4.530	3.160	octopus
2002/09/10 01:11:06		47.71026959	-127.78566225	2591.833	EVT	3.990	30.000	bullseye marker is right next to the thermal blanket
2002/09/10 01:12:08		47.71028749	-127.78562299	2591.874	EVT	4.080	30.000	grabbing the thermal blanket

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/10	01:13:09	47.71028594	-127.78565032	2591.928	EVT	3.960	30.000	picked up the thermal blanket and are now headed to nav target 30 (130 meters away)
2002/09/10	01:31:45	47.70944123	-127.78458176	2628.821	EVT	135.780	1.550	we think we are at nav marker 30
2002/09/10	01:32:16	47.70944348	-127.78456631	2630.884	EVT	133.940	30.000	putting the thermal blanket down here
2002/09/10	01:33:38	47.70941747	-127.78447099	2634.705	EVT	102.640	30.000	oops...a whole lot of sediment got stirred up
2002/09/10	01:35:39	47.70950663	-127.78447087	2636.402	EVT	333.470	1.840	pilot just called this spot the "slope of doom"
2002/09/10	01:36:49	47.70950235	-127.78446945	2636.646	EVT	347.690	1.580	positioning the thermal blanket over a nice sedimented spot where it will stay
2002/09/10	01:37:08	47.70950221	-127.78447022	2636.923	EVT	347.660	1.320	nope, too steep... it started sliding away and we picked it up
2002/09/10	01:39:17	47.70941478	-127.78456418	2630.708	EVT	275.260	3.090	in search of another home for the thermal blanket
2002/09/10	01:40:36	47.70938916	-127.78462975	2627.915	EVT	322.470	3.230	found a big rock; can put the blanket on the uphill side of it
2002/09/10	01:42:22	47.70940780	-127.78465590	2626.921	EVT	259.540	2.950	putting the thermal blanket down; stirred up some more sediment
2002/09/10	01:42:49	47.70940784	-127.78465581	2626.955	EVT	259.540	3.080	letting go: will it stay?
2002/09/10	01:43:10	47.70940707	-127.78465610	2626.996	EVT	265.540	3.020	the thermal blanket has been deployed
2002/09/10	01:43:56	47.70940652	-127.78465626	2626.955	EVT	271.650	3.030	blank-text
2002/09/10	01:55:51	47.70940542	-127.78465274	2617.636	EVT	268.040	12.740	waiting for a fix then will move out of the way of elevator with barrel sampler #2
2002/09/10	02:01:33	47.70940566	-127.78465281	2617.588	EVT	268.010	12.820	got a location for Jason
2002/09/10	02:03:59	47.70961128	-127.78482609	2617.575	EVT	322.700	7.520	correction: we are moving to the launch position for the elevator
2002/09/10	02:06:55	47.70970457	-127.78487717	2619.807	EVT	323.330	5.120	we see a white feature on the seafloor below: going in to investigate
2002/09/10	02:07:09	47.70971743	-127.78488418	2621.017	EVT	322.550	3.900	here's a good view of it
2002/09/10	02:07:42	47.70972887	-127.78488886	2621.585	EVT	316.940	3.390	no temperature anomaly
2002/09/10	02:07:58	47.70973200	-127.78488999	2621.795	EVT	316.880	3.160	could be Alvin tracks...
2002/09/10	02:08:27	47.70973940	-127.78490348	2622.025	EVT	302.620	2.580	is that a marker?
2002/09/10	02:09:31	47.70975215	-127.78488508	2621.274	EVT	342.130	3.410	bumped into the slope and stirred up some sediment
2002/09/10	02:10:25	47.70976250	-127.78488234	2620.977	EVT	321.450	4.210	a starfish below us
2002/09/10	02:14:49	47.70986898	-127.78494735	2615.492	EVT	334.110	5.850	1.78 temperature anomaly
2002/09/10	02:27:57	47.71053126	-127.78555510	2591.346	EVT	317.500	3.410	sea whips and octopus
2002/09/10	02:28:05	47.71054086	-127.78556893	2591.509	EVT	317.320	3.720	rajid
2002/09/10	02:28:43	47.71057647	-127.78563086	2592.158	EVT	317.280	3.680	rajid again, at left
2002/09/10	02:30:23	47.71068656	-127.78576024	2596.750	EVT	317.430	2.950	c
2002/09/10	02:30:43	47.71068459	-127.78575937	2597.129	EVT	317.320	2.660	that was a swimming polynoid polychaete
2002/09/10	02:31:05	47.71071434	-127.78579563	2597.434	EVT	319.020	3.620	jelly
2002/09/10	02:31:19	47.71077878	-127.78586230	2597.941	EVT	319.270	8.600	c
2002/09/10	02:31:26	47.71081315	-127.78589797	2597.549	EVT	316.030	11.570	another jelly in previous frame
2002/09/10	02:31:41	47.71082089	-127.78590522	2596.548	EVT	317.720	14.050	red jelly

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/10	02:32:05	47.71084478	-127.78593581	2596.899	EVT	317.090	15.720	the ship is in position to launch the elevator
2002/09/10	02:38:19	47.71118138	-127.78651707	2597.163	EVT	317.080	28.810	ctenophore
2002/09/10	02:40:40	47.71127447	-127.78671075	2603.419	EVT	317.390	24.960	they are still lowering the elevator
2002/09/10	02:43:40	47.71143577	-127.78692734	2612.645	EVT	317.720	22.570	shgrimp
2002/09/10	02:43:45	47.71144460	-127.78693512	2612.719	EVT	317.900	22.790	correction: elevator has not been launched yet
2002/09/10	02:43:49	47.71145133	-127.78694022	2612.719	EVT	318.020	22.860	er, that's shrimp
2002/09/10	02:45:17	47.71148505	-127.78698592	2612.665	EVT	317.640	24.350	elevator just being attached to crane
2002/09/10	02:45:28	47.71148507	-127.78698583	2612.577	EVT	317.510	24.810	ctenophore
2002/09/10	02:47:50	47.71148507	-127.78698553	2612.624	EVT	317.530	24.510	ctenophores and assorted plankton
2002/09/10	02:52:03	47.71171376	-127.78720913	2612.672	EVT	317.310	30.000	the second barrel sampler has just been launched.
2002/09/10	02:52:23	47.71171531	-127.78720650	2612.719	EVT	316.850	30.000	Pardon: it went in about 5 minutes ago.
2002/09/10	03:08:10	47.71195275	-127.78750107	2650.833	EVT	148.070	5.260	blank-text
2002/09/10	03:11:27	47.71190201	-127.78747482	2648.094	EVT	151.590	4.110	octopus
2002/09/10	03:11:38	47.71190235	-127.78747502	2647.770	EVT	151.230	4.300	and brittle stars
2002/09/10	03:12:35	47.71190232	-127.78747527	2647.932	EVT	151.500	4.210	just looking and wishing for this octopus.
2002/09/10	03:14:28	47.71190239	-127.78747514	2647.804	EVT	151.320	4.170	zoom out on rock
2002/09/10	03:16:51	47.71189055	-127.78745687	2648.250	EVT	141.440	3.050	we are looking at this for rocks now
2002/09/10	03:19:15	47.71189333	-127.78744362	2649.440	EVT	165.900	1.790	blank-text
2002/09/10	03:19:25	47.71189361	-127.78744387	2649.514	EVT	166.190	1.750	trying to grab rocks
2002/09/10	03:20:09	47.71189551	-127.78744205	2649.447	EVT	166.050	1.700	still trying
2002/09/10	03:26:12	47.71189338	-127.78741318	2644.564	EVT	346.460	4.230	we gave up on the rock
2002/09/10	03:30:04	47.71189836	-127.78743213	2648.811	EVT	161.530	2.440	another rock outcrop
2002/09/10	03:32:18	47.71189096	-127.78742625	2649.183	EVT	170.540	1.880	blank-text
2002/09/10	03:32:30	47.71189096	-127.78742628	2649.136	EVT	170.450	1.920	trying to take basalt sample
2002/09/10	03:32:38	47.71189081	-127.78742656	2649.169	EVT	170.460	1.930	zoom in
2002/09/10	03:33:40	47.71189138	-127.78742218	2649.386	EVT	170.190	1.930	pretty sure it is rock; but can we get it?
2002/09/10	03:38:32	47.71189407	-127.78743925	2648.351	EVT	154.290	2.710	Taking a look around the outcrop some more
2002/09/10	03:39:10	47.71187849	-127.78746956	2648.723	EVT	105.010	1.990	our octopus
2002/09/10	03:41:36	47.71187591	-127.78746839	2648.493	EVT	101.950	1.900	blank-text
2002/09/10	03:42:49	47.71187699	-127.78746862	2648.892	EVT	102.810	1.680	blank-text
2002/09/10	03:53:21	47.71188400	-127.78747238	2649.027	EVT	121.120	1.580	blank-text
2002/09/10	03:55:32	47.71188776	-127.78748413	2649.251	EVT	114.880	1.720	blank-text
2002/09/10	03:55:49	47.71188896	-127.78748788	2649.298	EVT	114.930	1.750	we
2002/09/10	03:56:09	47.71189086	-127.78749487	2649.379	EVT	114.940	1.780	we are giving up on rocks and pursuing the elevator
2002/09/10	03:57:54	47.71188328	-127.78748280	2647.628	EVT	116.370	3.050	blank-text
2002/09/10	03:58:03	47.71188302	-127.78748292	2647.858	EVT	116.350	2.870	those were pics of Cathy's rocks
2002/09/10	04:01:42	47.71188086	-127.78747355	2648.919	EVT	115.960	1.570	
2002/09/10	04:01:47	47.71188092	-127.78747403	2648.933	EVT	115.830	1.580	
2002/09/10	04:02:27	47.71188110	-127.78747465	2649.068	EVT	113.960	1.730	rock outcrop with octopus, crinoids, etc
2002/09/10	04:02:32	47.71188115	-127.78747452	2648.960	EVT	114.000	1.490	
2002/09/10	04:02:36	47.71188121	-127.78747445	2649.054	EVT	113.910	1.720	

Event log: LEXEN 2002

Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/10	04:02:49	47.71188123	-127.78747436	2648.967	EVT	114.230	1.430	octopus eggs
2002/09/10	04:03:23	47.71188136	-127.78747424	2649.034	EVT	113.990	1.450	octopus closeup
2002/09/10	04:03:29	47.71188163	-127.78747441	2648.845	EVT	114.860	1.920	od
2002/09/10	04:09:25	47.71146487	-127.78716824	2626.881	EVT	118.380	7.850	unknown thing!\
2002/09/10	04:09:32	47.71146614	-127.78716847	2628.673	EVT	118.260	6.270	Whale fall?
2002/09/10	04:09:46	47.71145161	-127.78713202	2629.667	EVT	116.130	3.960	Apparently hydrothermal, but no CTD anomaly
2002/09/10	04:09:53	47.71144407	-127.78711255	2628.767	EVT	116.020	4.450	Working on fix...
2002/09/10	04:10:39	47.71145424	-127.78713949	2630.363	EVT	116.450	3.300	apparent hydrothermal anomaly..closeup
2002/09/10	04:10:46	47.71145423	-127.78713934	2630.472	EVT	116.280	3.300	
2002/09/10	04:11:02	47.71145433	-127.78713950	2630.221	EVT	116.110	3.580	No flow observed
2002/09/10	04:13:56	47.71107513	-127.78675038	2619.651	EVT	154.480	4.570	
2002/09/10	04:14:09	47.71102528	-127.78671593	2618.650	EVT	153.530	4.230	
2002/09/10	04:14:24	47.71097167	-127.78668216	2616.608	EVT	154.140	5.510	
2002/09/10	04:17:21	47.71069595	-127.78648773	2600.443	EVT	154.810	9.040	
2002/09/10	04:17:27	47.71068783	-127.78648019	2600.410	EVT	155.120	8.020	
2002/09/10	04:17:46	47.71066469	-127.78646586	2597.508	EVT	155.070	9.300	octopi- hoardes of them
2002/09/10	04:22:34	47.71050179	-127.78597518	2585.779	EVT	178.120	4.790	over summit
2002/09/10	04:22:35	47.71050179	-127.78597518	2585.779	EVT	178.120	4.790	going right over the summit
2002/09/10	04:26:04	47.71017810	-127.78595100	2584.995	EVT	174.310	9.450	we are on the hunt for barrel elevator II; are now
back at Lang sampler and elevator #1								
2002/09/10	04:26:41	47.70996804	-127.78579190	2585.915	EVT	139.860	11.990	we do not see elevator #II
2002/09/10	04:31:31	47.70987900	-127.78540849	2605.516	EVT	137.020	7.750	Elevator II spotted
2002/09/10	04:31:53	47.70988280	-127.78541057	2607.653	EVT	137.510	5.410	we only saw it with medea's cam; as we were
watching, looked like it came up.								
2002/09/10	04:32:34	47.70986345	-127.78537876	2614.268	EVT	132.700	30.000	looks like cloud where elevator used to be?
2002/09/10	04:34:12	47.70979081	-127.78525820	2618.021	EVT	298.840	3.550	we are calling the bridge to let them know. We also
didn't see the first elevator near the Lang sampler. Have they both left								
2002/09/10	04:34:21	47.70979307	-127.78526175	2617.385	EVT	298.750	4.110	Bad explicitives.
2002/09/10	04:35:02	47.70978492	-127.78525230	2617.744	EVT	298.710	3.940	So now we think we might need to track both barrel
samplers; they may both have left the bottom.								
2002/09/10	04:35:36	47.70978511	-127.78525223	2617.548	EVT	298.690	4.140	We are trying to track the second elevator.
2002/09/10	04:36:22	47.70979767	-127.78528073	2617.595	EVT	311.130	3.330	most people in the van agree that it looked like the
second elevator was rising when we saw it on medea's cam								
2002/09/10	04:44:20	47.70979211	-127.78526087	2617.724	EVT	288.830	3.840	we are looking for an alvin weight that might have
dropped off elevator, precipitating this bad bad thing happening.								
2002/09/10	04:49:21	47.70979088	-127.78526130	2617.676	EVT	251.230	3.630	Got a good fix on the second elevator. It is at 2100m,
rising at a rate of 29m/min. Bridge has been alerted.								
2002/09/10	04:49:42	47.70979083	-127.78526106	2617.588	EVT	251.250	3.710	Now we are going to quiry the first elevator and
make sure that it is still here.								
2002/09/10	04:52:51	47.70977864	-127.78533451	2612.178	EVT	252.740	7.380	we are heading towards the probe site, nav target #19
2002/09/10	04:53:29	47.70975460	-127.78544873	2611.096	EVT	253.310	5.070	we didn't see alvin weights

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/10	04:56:05	47.70965966	-127.78561038	2606.842	EVT	167.080	3.040	first elevator is still at the sight. That is a good thing.
2002/09/10	04:56:33	47.70969640	-127.78545633	2607.809	EVT	63.400	5.940	Now we are going to track the second one since we
have evidence elev. I is on bottom and in place.								
2002/09/10	05:00:13	47.70990246	-127.78561014	2603.636	EVT	295.020	3.560	Second elevator is still coming up at 30m/min
2002/09/10	05:03:39	47.71000106	-127.78582185	2596.203	EVT	316.550	2.550	visual confirmation of the first elevator, the lang
sampler, and mav								
2002/09/10	05:09:54	47.70982289	-127.78534398	2594.958	EVT	111.230	19.960	elevator at 1470m and rising. We are following the
track of the elevator with the ship, medea, and Jason.								
2002/09/10	05:11:04	47.70978369	-127.78519551	2595.073	EVT	111.050	24.880	The explicitives have decreased dramatically.
2002/09/10	05:22:52	47.70945180	-127.78418782	2595.384	EVT	108.190	30.000	
2002/09/10	05:36:02	47.70969063	-127.78372334	2595.323	EVT	89.440	30.000	Wire checked- looks strait
2002/09/10	05:38:26	47.70972135	-127.78369357	2595.276	EVT	90.380	30.000	Elevator currently off starboard quarter. Aiming to
surface a couple hundred meters from the ship								
2002/09/10	05:58:17	47.71025430	-127.78388301	2595.269	EVT	324.720	30.000	elevator spotted from ship as nav predicted
2002/09/10	06:14:26	47.70981359	-127.78447885	2595.093	EVT	6.540	30.000	elevator on deck
2002/09/10	06:21:10	47.70990229	-127.78498420	2594.978	EVT	6.980	30.000	elevator burn wire's burned; attributed to transponder.
Needs troubleshooting.								
2002/09/10	07:18:39	47.70990736	-127.78564724	2594.796	EVT	336.190	4.490	target 20 is the new target for probe number 4
2002/09/10	07:21:12	47.70993748	-127.78568088	2598.218	EVT	40.560	1.670	removing the MAV connector from the probe
2002/09/10	07:22:02	47.70993705	-127.78568094	2598.191	EVT	40.250	1.640	connector removed
2002/09/10	07:23:38	47.70993717	-127.78568084	2598.279	EVT	40.540	1.600	using ICL temperature probe to take temperature
2002/09/10	07:24:14	47.70993718	-127.78568074	2598.232	EVT	40.420	1.620	ICL taking temperature
2002/09/10	07:24:39	47.70993695	-127.78568079	2598.306	EVT	40.300	1.660	ICL inside entrance of probe
2002/09/10	07:24:56	47.70993689	-127.78568067	2598.286	EVT	40.120	1.580	trying to get ICL inside entrance of probe
2002/09/10	07:25:10	47.70993687	-127.78568055	2598.245	EVT	40.080	1.580	ICL inserted and temperature reading steadily rising
2002/09/10	07:25:55	47.70993664	-127.78567975	2598.353	EVT	40.340	1.600	highest temperature recorded = 17.9
2002/09/10	07:38:48	47.70993039	-127.78579324	2597.853	EVT	78.580	7.410	
2002/09/10	07:39:20	47.70990989	-127.78576648	2597.332	EVT	75.380	7.820	moving elevator to hole 4
2002/09/10	07:46:22	47.70989711	-127.78563083	2597.711	EVT	7.290	2.450	elevator in new location next to probe and pipe MAV
2002/09/10	07:48:01	47.70990106	-127.78562720	2598.996	EVT	18.770	1.140	inspecting
2002/09/10	07:49:18	47.70989907	-127.78562623	2598.746	EVT	18.910	1.370	picking up barrel sampler connector
2002/09/10	07:51:24	47.70990219	-127.78562789	2598.387	EVT	18.120	1.570	blank-text
2002/09/10	07:51:40	47.70990326	-127.78564217	2597.630	EVT	18.660	2.300	tube coming out
2002/09/10	07:53:24	47.70992807	-127.78567367	2598.570	EVT	17.760	1.220	connecting barrel sampler to probe
2002/09/10	07:53:49	47.70992853	-127.78567362	2598.658	EVT	17.750	1.220	connected
2002/09/10	07:54:46	47.70992816	-127.78567421	2598.665	EVT	17.920	1.220	rotating valve on connector
2002/09/10	07:55:28	47.70992788	-127.78567436	2598.732	EVT	18.000	1.210	having trouble rotating valve
2002/09/10	07:55:55	47.70992772	-127.78567460	2598.712	EVT	17.710	1.230	valve open - will try to get it straight
2002/09/10	07:56:08	47.70992798	-127.78567473	2598.644	EVT	18.140	1.170	blank-text
2002/09/10	07:56:32	47.70992745	-127.78567513	2598.184	EVT	17.780	1.770	used Jasons rotating wrist to open valve
2002/09/10	07:57:26	47.70990413	-127.78565617	2596.690	EVT	17.770	3.400	moving back to the barrel sampler

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/10 07:58:37		47.70990806	-127.78562669	2599.152	EVT	18.990	0.740	all we need to do is turn it on
2002/09/10 07:59:09		47.70990881	-127.78562736	2599.043	EVT	18.420	0.810	inspecting flow meter
2002/09/10 07:59:19		47.70990912	-127.78562779	2599.226	EVT	18.780	0.760	flow meter
2002/09/10 08:00:01		47.70990850	-127.78562755	2599.070	EVT	18.650	0.750	is water flowing
2002/09/10 08:00:24		47.70990738	-127.78562664	2599.158	EVT	18.730	0.760	the flow meter shows that water is flowing
2002/09/10 08:00:42		47.70990412	-127.78562428	2599.267	EVT	18.690	0.750	looks like the water is flowing less
2002/09/10 08:01:02		47.70990227	-127.78562314	2599.138	EVT	18.690	0.750	flow is dropping
2002/09/10 08:01:24		47.70990102	-127.78562181	2599.111	EVT	18.580	0.750	bad kink
2002/09/10 08:02:27		47.70990312	-127.78562454	2599.057	EVT	18.310	0.820	we will try to fix the bad kink in the hose that is causing low amounts of flow
2002/09/10 08:08:23		47.71001851	-127.78559135	2599.503	EVT	17.660	30.000	we are going to have to take the connector off the probe and spin the connector to straighten out the hose to remove kinks
2002/09/10 08:12:25		47.71006347	-127.78562487	2599.172	EVT	17.580	0.810	removing the connector
2002/09/10 08:13:28		47.71003267	-127.78561393	2597.271	EVT	13.910	3.030	rotating to remove kinks
2002/09/10 08:16:40		47.71005226	-127.78562435	2597.691	EVT	14.060	2.580	rotating some more
2002/09/10 08:20:17		47.71006373	-127.78563477	2598.976	EVT	11.100	1.190	re attaching
2002/09/10 08:21:58		47.71006285	-127.78563342	2598.509	EVT	11.560	1.660	barrel sampler re attached
2002/09/10 08:30:04		47.71002751	-127.78561609	2599.212	EVT	12.140	0.990	kink
2002/09/10 08:33:43		47.71002329	-127.78560891	2599.179	EVT	11.640	1.110	still working on kinks
2002/09/10 08:35:44		47.71002583	-127.78561474	2599.327	EVT	11.750	1.050	kink removed
2002/09/10 08:36:27		47.71002812	-127.78561399	2599.253	EVT	11.720	1.060	now inspecting flow meter
2002/09/10 08:37:10		47.71002949	-127.78561214	2599.253	EVT	11.730	1.120	we're now going to open the valve switch now that the kink is out
2002/09/10 08:37:22		47.71002931	-127.78561157	2599.327	EVT	11.750	1.080	look at the flow meter
2002/09/10 08:38:02		47.71003078	-127.78561171	2599.307	EVT	11.770	1.080	flow is not decreasing this time
2002/09/10 08:38:14		47.71003170	-127.78561126	2599.280	EVT	11.810	1.090	flow remains steady
2002/09/10 08:38:30		47.71003176	-127.78561102	2599.253	EVT	11.670	1.070	appears to be 1 gallon per minute measured flow
2002/09/10 08:39:28		47.71003448	-127.78561012	2599.375	EVT	11.750	1.070	
2002/09/10 08:42:35		47.71004142	-127.78560808	2599.253	EVT	11.710	1.070	barrel on the right is collapsing
2002/09/10 08:43:05		47.71004172	-127.78560745	2599.260	EVT	11.800	1.080	it may just be the camera angle
2002/09/10 08:51:29		47.71012418	-127.78572127	2597.298	EVT	116.740	5.210	Going over to the Lang sampler to see if the syringe is moving-it should not be
2002/09/10 08:56:13		47.71012451	-127.78569136	2597.643	EVT	131.470	3.770	Looks like the syringe is not moving on the Lang sampler
2002/09/10 08:58:44		47.71012915	-127.78571072	2600.788	EVT	102.690	1.720	Preparing to take Lang sampler off Probe 3
2002/09/10 09:03:54		47.71013504	-127.78566243	2598.462	EVT	186.660	1.320	The intake has been removed from probe 3
2002/09/10 09:07:58		47.71012776	-127.78570115	2598.685	EVT	91.560	3.530	Trying to figure out how to secure the intake of the Lang sampler
2002/09/10 09:12:02		47.70993250	-127.78574452	2599.172	EVT	56.310	4.460	Lang sampler is ready to go up
2002/09/10 09:12:14		47.70993829	-127.78575001	2600.396	EVT	95.760	3.130	Going to take and ICL measurement at Probe 3
2002/09/10 09:17:54		47.70994830	-127.78573306	2601.248	EVT	86.010	1.450	Background temperature is 2.1

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/10	09:19:03	47.70994868	-127.78573331	2601.181	EVT	85.610	1.440	Can still see lots of shimmery flow coming out of probe 3
2002/09/10	09:19:54	47.70994925	-127.78573352	2601.133	EVT	85.580	1.450	Maximum temperature 18.9
2002/09/10	09:21:27	47.70994951	-127.78573344	2601.296	EVT	85.930	1.410	Going back over to Probe 4 to check on barrel sampler
2002/09/10	09:23:52	47.70985528	-127.78562824	2597.055	EVT	30.910	4.270	Barrel sampler in view
2002/09/10	09:25:07	47.70987071	-127.78561780	2599.963	EVT	32.150	0.860	Pumping 0.7 gallons per minute, down from 0.8 per minute
2002/09/10	09:26:22	47.70986213	-127.78562535	2597.650	EVT	30.910	3.420	We're going to the thermal blanket
2002/09/10	09:27:25	47.70983576	-127.78564540	2597.927	EVT	116.580	4.270	Going to nav marker 30 for thermal blanket
2002/09/10	09:44:21	47.70961964	-127.78474094	2601.181	EVT	136.800	29.990	Dropping to the seafloor
2002/09/10	09:46:35	47.70958971	-127.78470671	2628.855	EVT	168.020	5.410	On the seafloor, looking for the thermal blanket
2002/09/10	09:48:49	47.70942884	-127.78464860	2627.347	EVT	246.400	7.070	Found the thermal blanket
2002/09/10	09:50:15	47.70940608	-127.78471207	2630.174	EVT	246.690	1.660	Looking at rocks with biology on them
2002/09/10	09:50:51	47.70940647	-127.78471155	2630.032	EVT	246.700	1.760	Poking at the rocks to see if they're basalt
2002/09/10	09:54:42	47.70950800	-127.78479909	2627.537	EVT	247.800	2.420	Driving around this large rock outcrop looking at rocks
2002/09/10	09:55:24	47.70950798	-127.78480151	2628.226	EVT	247.480	1.470	blank-text
2002/09/10	09:55:27	47.70950800	-127.78480157	2628.220	EVT	247.460	1.450	blank-text
2002/09/10	09:55:40	47.70950803	-127.78480160	2628.145	EVT	247.470	1.460	Questionable octopus egg-Janet?
2002/09/10	09:57:48	47.70950795	-127.78480153	2628.172	EVT	247.470	1.460	Picked something up that isn't a rock- put it back
2002/09/10	10:01:44	47.70950570	-127.78481122	2627.388	EVT	247.020	1.920	Still picking up rocks
2002/09/10	10:05:31	47.70956104	-127.78462981	2633.021	EVT	247.250	4.960	Re-positioning to look at rocks
2002/09/10	10:10:57	47.70952222	-127.78481101	2625.386	EVT	247.010	4.290	Finding the thermal blanket again
2002/09/10	10:15:31	47.70946633	-127.78470665	2627.963	EVT	177.980	3.810	Found the thermal blanket again
2002/09/10	10:18:14	47.70941149	-127.78472026	2623.986	EVT	260.850	8.080	Picking up the thermal blanket
2002/09/10	10:19:01	47.70949266	-127.78479353	2623.276	EVT	296.950	6.420	Carrying the thermal blanket back near target 19
2002/09/10	10:32:39	47.70990388	-127.78538801	2601.417	EVT	269.550	3.870	Elevator in view at nav target 19
2002/09/10	10:34:04	47.70991882	-127.78548085	2598.448	EVT	261.620	3.560	Looking for a nice flat spot to put the thermal blanket near the elevator
2002/09/10	10:37:00	47.70996549	-127.78557306	2597.880	EVT	268.930	0.700	We are deploying the thermal blanket 5m east of the Lang sampler, next to the elevator
2002/09/10	10:38:04	47.70996583	-127.78557185	2596.913	EVT	269.490	1.610	thermal blanket deployment
2002/09/10	10:38:12	47.70996585	-127.78557109	2597.312	EVT	269.660	1.160	thermal blanket deployment
2002/09/10	10:38:49	47.70996566	-127.78557139	2597.190	EVT	269.990	1.290	thermal blanket deployment
2002/09/10	10:39:20	47.70997791	-127.78557140	2597.352	EVT	251.580	0.880	thermal blanket deployment
2002/09/10	10:39:34	47.70998020	-127.78557277	2597.244	EVT	246.250	0.810	thermal blanket deployment
2002/09/10	10:40:43	47.70990431	-127.78550773	2597.210	EVT	293.640	4.570	Moving over to the barrel sampler to check out the flow
2002/09/10	10:42:30	47.70987445	-127.78557727	2599.260	EVT	4.350	1.990	Looks like it is still working
2002/09/10	10:42:38	47.70987406	-127.78557685	2599.327	EVT	4.510	2.110	Flow looks like it is lower

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/10	10:43:40	47.70988326	-127.78558330	2599.341	EVT	4.390	1.750	flow is 0.6 gallons/minute
2002/09/10	10:59:15	47.70988327	-127.78558300	2599.219	EVT	4.540	1.700	flow meter
2002/09/10	10:59:39	47.70988313	-127.78558283	2599.206	EVT	4.630	1.760	blank-text
2002/09/10	10:59:48	47.70988327	-127.78558295	2599.334	EVT	4.520	1.700	exhaust pipe
2002/09/10	11:05:19	47.70988585	-127.78558706	2599.841	EVT	8.090	1.110	turning off flow meter
2002/09/10	11:07:35	47.70988501	-127.78558887	2599.787	EVT	8.520	1.140	shutting off pump
2002/09/10	11:08:11	47.70988461	-127.78558912	2599.848	EVT	8.550	1.100	going to shut off the valves now
2002/09/10	11:08:24	47.70988461	-127.78558865	2599.801	EVT	8.320	1.150	turning off valves
2002/09/10	11:09:03	47.70988444	-127.78558989	2599.760	EVT	8.780	1.000	valves off
2002/09/10	11:09:46	47.70988368	-127.78559240	2599.828	EVT	8.540	30.000	exhaust
2002/09/10	11:10:03	47.70988370	-127.78559302	2599.828	EVT	8.620	1.060	no flow... everything must be shut down properly
2002/09/10	11:10:47	47.70988214	-127.78562962	2597.934	EVT	0.110	2.880	probe tip assembly and MAV
2002/09/10	11:10:59	47.70988609	-127.78564575	2597.177	EVT	2.920	3.770	going to remove barrel sampler tip
2002/09/10	11:11:36	47.70989358	-127.78564683	2596.115	EVT	5.080	4.630	thermal blanky in background
2002/09/10	11:16:25	47.70990940	-127.78563453	2599.639	EVT	54.300	1.300	barrel sampler nozzle off
2002/09/10	11:19:28	47.70988678	-127.78561768	2599.862	EVT	49.110	1.030	dropped the nozzle
2002/09/10	11:19:42	47.70988698	-127.78561579	2599.889	EVT	49.220	1.060	pump ran for 151 minutes total
2002/09/10	11:19:55	47.70988719	-127.78561824	2599.902	EVT	49.250	1.070	started at 1 and quickly dropped to 0.8gpm
2002/09/10	11:24:11	47.70988916	-127.78561787	2599.726	EVT	49.420	1.080	replacing nozzle
2002/09/10	11:24:58	47.70988874	-127.78561531	2599.740	EVT	49.430	1.060	nozzle in the bucket
2002/09/10	11:25:13	47.70988911	-127.78561120	2599.740	EVT	49.420	1.070	now pulling pin to loxk nozzle in bucket
2002/09/10	11:25:45	47.70988835	-127.78560789	2599.632	EVT	49.420	1.090	151 minutes at 0.6 gpm makes 90? gallons
2002/09/10	11:28:08	47.70988361	-127.78561206	2599.747	EVT	49.440	1.040	now we will take some water sampler with butterfield
	sampler							
2002/09/10	11:28:14	47.70988290	-127.78561208	2599.814	EVT	49.430	1.040	and plug the MAV back in
2002/09/10	11:31:30	47.70990090	-127.78563239	2599.496	EVT	41.120	1.170	not going to use butterfield sampler... replacing MAV
	nozzle							
2002/09/10	11:33:39	47.70990058	-127.78563263	2599.409	EVT	40.900	1.160	nozzle back on... going to tap the t-handle to make
	sure it is on all the way							
2002/09/10	11:35:52	47.70989466	-127.78564154	2598.895	EVT	18.440	1.810	going to pipe 3 to take a couple more water samplers
2002/09/10	11:37:01	47.70993618	-127.78571882	2600.890	EVT	45.280	1.930	back at pipe 3 with the octopus
2002/09/10	11:38:37	47.70993935	-127.78572103	2601.343	EVT	51.820	1.620	waiting for sediment from landing to clear
2002/09/10	11:39:36	47.70993867	-127.78572171	2601.275	EVT	51.850	1.590	getting butterfield sampler nozzle
2002/09/10	11:45:17	47.70993683	-127.78572908	2601.140	EVT	53.000	1.670	placing butterfield sampler nozzle
2002/09/10	11:46:16	47.70993720	-127.78573000	2601.228	EVT	53.130	1.690	blank-text
2002/09/10	11:46:22	47.70993725	-127.78573006	2601.370	EVT	53.170	1.690	fish checking things out
2002/09/10	11:46:30	47.70993736	-127.78573009	2601.194	EVT	53.170	1.670	sampler nozzle on probe
2002/09/10	11:46:46	47.70993750	-127.78573036	2601.248	EVT	53.180	1.660	18.4 no with flush pump off
2002/09/10	11:48:09	47.70993831	-127.78573116	2601.302	EVT	53.200	1.670	temper going up
2002/09/10	11:48:32	47.70993880	-127.78573124	2601.235	EVT	53.200	1.660	temperature now 20.0
2002/09/10	11:48:55	47.70993907	-127.78573156	2601.363	EVT	53.200	1.660	sediment coming out of end of tube

Event log: LEXEN 2002

Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/10	11:49:50	47.70994021	-127.78573225	2601.275	EVT	53.220	1.660	still getting sediment down there
2002/09/10	11:50:16	47.70994071	-127.78573275	2601.269	EVT	53.230	1.660	octopus coming over to say hi
2002/09/10	11:52:53	47.70994328	-127.78573390	2601.228	EVT	53.260	1.660	dave turned pump down and both temps decreased
2002/09/10	11:53:12	47.70994370	-127.78573396	2601.147	EVT	53.270	1.660	flush pump went from 3500 to 2700 and temp went
	from 20 to 19 to 11.6							
2002/09/10	11:53:23	47.70994394	-127.78573407	2601.282	EVT	53.280	1.670	will turn pump back onto full speed... temp going up
2002/09/10	11:55:58	47.70994556	-127.78573491	2601.167	EVT	53.280	1.670	starting piston 5
2002/09/10	12:02:14	47.70994781	-127.78573261	2601.174	EVT	53.300	1.660	piston five does not seem to be working
2002/09/10	12:02:30	47.70994800	-127.78573263	2601.120	EVT	53.300	1.660	will try a different one
2002/09/10	12:02:39	47.70994794	-127.78573267	2601.235	EVT	53.300	1.660	trying piston 23 instead
2002/09/10	12:03:45	47.70994837	-127.78573219	2601.269	EVT	53.300	1.670	start piston 23
2002/09/10	12:11:23	47.70994965	-127.78572223	2601.154	EVT	53.370	1.660	stopping piston 23
2002/09/10	12:11:36	47.70994980	-127.78572217	2601.106	EVT	53.370	1.670	never saw the piston move on 23 - may not have
	gotten water							
2002/09/10	12:12:08	47.70994998	-127.78572166	2601.113	EVT	53.360	1.670	tapes changed
2002/09/10	12:13:21	47.70995016	-127.78572071	2601.032	EVT	53.290	1.710	all tapes changed
2002/09/10	12:14:44	47.70994867	-127.78572152	2599.300	EVT	41.320	3.550	for piston 23 maximum temp 20.9 average 20.6
2002/09/10	12:15:07	47.70994730	-127.78572393	2598.266	EVT	34.390	4.470	piston 23 pump says 796 ml... saw MQ water out
	exhaust for sample pump but not sure the piston moved							
2002/09/10	12:15:38	47.70994651	-127.78572307	2595.959	EVT	29.920	6.850	pulled the probe off - ship is moving around alot...
	seem to be having trouble keeping our position							
2002/09/10	12:18:55	47.70988780	-127.78524142	2590.386	EVT	194.960	20.330	still waiting for ship to stabilize... mate called and
	said they are having some weather related issues							
2002/09/10	12:22:10	47.70971557	-127.78543206	2589.912	EVT	220.400	16.940	first mate shut off the port thruster due to wire
	concerns which caused the drastic course change							
2002/09/10	12:40:03	47.70958626	-127.78581340	2589.824	EVT	315.930	20.370	still waiting on ship
2002/09/10	12:40:56	47.70963887	-127.78566140	2589.865	EVT	316.030	15.410	medea is also recovering from our changes in
	position							
2002/09/10	12:49:36	47.70985186	-127.78562736	2589.513	EVT	352.520	11.830	heading back in to try some more sampling
2002/09/10	12:51:44	47.70991690	-127.78565199	2600.842	EVT	12.990	0.790	back on the bottom
2002/09/10	13:01:06	47.70991589	-127.78564078	2600.592	EVT	28.430	1.170	going to take last butterfield sampler
2002/09/10	13:01:30	47.70991557	-127.78564103	2600.565	EVT	28.390	1.170	probe is blowing out sediment again
2002/09/10	13:03:09	47.70991470	-127.78564051	2600.680	EVT	28.220	1.260	nozzle on probe 3 tip
2002/09/10	13:03:20	47.70991486	-127.78563995	2600.525	EVT	28.150	1.280	sample will be bag 11
2002/09/10	13:05:02	47.70991036	-127.78565171	2600.646	EVT	28.110	1.270	pump now on
2002/09/10	13:05:08	47.70991027	-127.78565204	2600.599	EVT	28.090	1.260	flush pump that is
2002/09/10	13:05:54	47.70990932	-127.78565379	2600.552	EVT	28.120	1.260	exhaust is blowing out a bit of sediment...
	temperature coming up							
2002/09/10	13:07:15	47.70990744	-127.78565999	2600.579	EVT	28.050	1.290	starting sample 11
2002/09/10	13:08:28	47.70990609	-127.78565909	2600.437	EVT	28.020	1.440	both exhausts blowing good... sediment out flush
	exhaust looks like MQ out of sample exhaust							

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/10	13:09:45	47.70990657	-127.78564951	2600.511	EVT	28.030	1.450	dave thinks bumping the probe tip must knock sediment into the pipe
2002/09/10	13:09:54	47.70990708	-127.78564756	2600.626	EVT	27.960	1.080	and then the sediment comes out in the fluid
2002/09/10	13:14:51	47.70991480	-127.78560190	2600.484	EVT	28.130	1.080	sample pump stopped
2002/09/10	13:15:09	47.70991575	-127.78559768	2600.504	EVT	28.150	1.460	bag 11 max temp 20.4 avg 20.2 total volume 621 ml
2002/09/10	13:15:39	47.70991706	-127.78559291	2600.477	EVT	28.190	1.080	will remove nozzle now
2002/09/10	13:17:39	47.70992041	-127.78557046	2600.423	EVT	28.230	1.290	replacing buterfield sampler nozzle
2002/09/10	13:18:12	47.70992173	-127.78556375	2600.470	EVT	28.220	1.300	probe tip smoking away again
2002/09/10	13:18:38	47.70992402	-127.78555736	2600.504	EVT	28.230	1.310	blank-text
2002/09/10	13:22:27	47.70991637	-127.78552520	2600.457	EVT	28.020	1.110	going to bring up the lang sampler
2002/09/10	13:24:08	47.70989461	-127.78550283	2595.614	EVT	51.980	6.260	going to release lang sampler
2002/09/10	13:44:03	47.70991349	-127.78550798	2597.346	EVT	115.490	3.520	possible problem with our positioning here
2002/09/10	13:44:18	47.70991476	-127.78550613	2597.407	EVT	132.150	3.240	trying to figure out the best way to send up sampler and get out of the way
2002/09/10	13:48:04	47.70991964	-127.78549583	2597.190	EVT	167.030	2.460	trying to spin the lang sampler around so the pull-pin is facing the right direction
2002/09/10	13:53:13	47.70995022	-127.78547330	2596.027	EVT	171.450	1.950	trying to get the line to the pin stretched out to the front - kinda difficult
2002/09/10	13:55:57	47.70995031	-127.78548073	2596.405	EVT	170.990	1.800	there she goes
2002/09/10	13:56:04	47.70995396	-127.78548345	2596.730	EVT	171.030	1.700	lang sampler on the way up
2002/09/10	14:02:21	47.70995364	-127.78548619	2591.407	EVT	171.340	6.330	changing tapes
2002/09/10	14:04:34	47.70995366	-127.78548587	2591.488	EVT	171.370	6.320	all tapes changed
2002/09/10	14:51:21	47.70905458	-127.78536590	2587.484	EVT	95.970	30.000	something
2002/09/10	14:51:55	47.70904890	-127.78531072	2587.247	EVT	95.550	30.000	waiting for lang sampler to come up
2002/09/10	14:54:45	47.70907111	-127.78544915	2587.058	EVT	80.330	30.000	waiting for Lang sampler to come up
2002/09/10	15:04:30	47.70900456	-127.78571984	2585.840	EVT	87.370	30.000	elevator is released
2002/09/10	16:08:24	47.70864499	-127.78666683	2587.836	EVT	322.470	30.000	waiting for elevator to surface
2002/09/10	16:48:56	47.70954450	-127.78751952	2587.464	EVT	49.000	30.000	elevator has surfaced, going to recover it
2002/09/10	17:05:04	47.70932825	-127.78667814	2588.735	EVT	119.260	30.000	tape deck 2 being replaced
2002/09/10	17:06:33	47.70928132	-127.78655576	2588.593	EVT	119.010	30.000	elevator recovered
2002/09/10	17:06:52	47.70927623	-127.78654426	2588.735	EVT	119.220	30.000	transitting to next launch site
2002/09/10	18:17:25	47.71304790	-127.79168222	2588.762	EVT	313.810	29.780	ship on elevator launch site
2002/09/10	18:27:48	47.71325002	-127.79217273	2588.756	EVT	302.660	30.000	elevator in the water and free
2002/09/10	19:38:29	47.71320206	-127.79032305	2635.631	EVT	73.630	4.330	elevator is on the bottom
2002/09/10	19:47:27	47.71345962	-127.78942628	2628.571	EVT	72.110	4.190	we have located the elevator
2002/09/10	19:47:36	47.71346073	-127.78942381	2628.355	EVT	73.140	4.260	elevator in sight
2002/09/10	19:48:46	47.71348673	-127.78932310	2628.707	EVT	77.840	4.130	elevator
2002/09/10	19:53:36	47.71348663	-127.78922819	2628.808	EVT	139.200	4.680	reaching to pick up the elevator
2002/09/10	19:53:53	47.71349916	-127.78923822	2629.092	EVT	138.510	4.870	lifting the elevator
2002/09/10	19:55:19	47.71214970	-127.78543031	2622.221	EVT	139.760	10.910	we have grabbed the elevator
2002/09/10	20:52:16	47.71003420	-127.78538708	2582.614	EVT	214.150	18.190	Still moving the elevator

Event log: LEXEN 2002
Dive J2-006

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/10	21:03:36	47.70987969	-127.78556353	2590.068	EVT	12.010	12.040	Pipe Mav in view
2002/09/10	21:14:13	47.70985113	-127.78562575	2591.563	EVT	341.170	12.730	The weight just fell off the elevator and it is going off
2002/09/10	21:14:24	47.70984957	-127.78562657	2589.290	EVT	341.080	15.020	It is returning to the surface
2002/09/10	21:14:55	47.70985071	-127.78562642	2594.897	EVT	341.380	9.300	He let go of it very gently and the weight came off
2002/09/10	21:19:09	47.70990965	-127.78552615	2595.824	EVT	333.770	5.580	We are recovering the thermal blanket now
2002/09/10	21:20:09	47.70999040	-127.78557708	2596.061	EVT	45.170	4.460	Thermal blanket
2002/09/10	21:22:52	47.71001037	-127.78556083	2598.049	EVT	43.870	1.570	Picking up the thermal blanket
2002/09/10	21:24:54	47.71000999	-127.78556480	2598.286	EVT	43.390	1.440	Recovering the thermal blanket
2002/09/10	21:31:17	47.70995972	-127.78558410	2599.618	EVT	60.170	1.700	elevator will be on the surface within an hour and we may have to move the ship and interrupt sampling
2002/09/10	21:33:40	47.70995903	-127.78558379	2599.916	EVT	60.820	1.450	flush pump on; 9 degrees C
2002/09/10	21:34:07	47.70995892	-127.78558314	2599.916	EVT	60.830	1.460	the Butterfield intake is on probe 4
2002/09/10	21:34:32	47.70995887	-127.78558284	2599.781	EVT	60.780	1.450	temperature going up: now at 16 degrees C
2002/09/10	21:35:56	47.70995851	-127.78558250	2600.024	EVT	60.530	1.480	starting piston #20
2002/09/10	21:42:27	47.70995832	-127.78557777	2599.909	EVT	60.610	1.470	not sure if piston #20 is moving
2002/09/10	21:43:04	47.70995832	-127.78557834	2599.990	EVT	60.700	1.490	stopped piston #20
2002/09/10	21:44:03	47.70995787	-127.78557864	2600.038	EVT	60.700	1.480	piston #20: max T=19.3 ave T=19 T2=12.6
Vol=693ml								
2002/09/10	21:45:21	47.70995777	-127.78557747	2599.950	EVT	60.740	1.480	starting RNA filter #10
2002/09/10	21:47:08	47.70995690	-127.78557516	2600.105	EVT	60.550	1.440	we only have 15 more minutes here so there is a serious time constraint
2002/09/10	21:52:49	47.70995616	-127.78557123	2600.024	EVT	60.450	1.480	stopped RNA filter #10: max T=19.2 ave T=19.1
vol=961ml								
2002/09/10	21:53:15	47.70995607	-127.78557199	2599.956	EVT	60.500	1.500	start sterivex #12
2002/09/10	21:58:36	47.70995519	-127.78557506	2600.017	EVT	60.450	1.470	stopped sterivex #12: max T=19.2 ave T=19.1
vol=736ml								
2002/09/10	22:03:12	47.70994937	-127.78557591	2599.997	EVT	60.130	1.480	We removed the fluid sampler, and are putting on the Pipe Mav
2002/09/10	22:03:35	47.70994780	-127.78557679	2599.916	EVT	60.130	1.480	We are finished on the seafloor and will now follow the elevator up
2002/09/10	22:04:43	47.70994814	-127.78557686	2600.024	EVT	60.050	1.500	Note, the pipe mav is on probe 4
2002/09/10	22:05:57	47.70994668	-127.78557801	2597.751	EVT	106.600	4.040	Leaving the seafloor
2002/09/10	22:10:37	47.70965817	-127.78610040	2497.227	EVT	220.040	30.000	Depth 2501, rising at 34 mpm
2002/09/10	22:15:46	47.70965817	-127.78610040	2346.111	EVT	221.960	30.000	2333m, 29 mpm
2002/09/10	22:48:26	47.70965817	-127.78610040	1367.127	EVT	257.450	30.000	elevator out of water, released unfilled and with temp probe (Billy's) undeployed
2002/09/10	22:50:58	47.70965817	-127.78610040	1291.840	EVT	258.750	30.000	elevator on deck
2002/09/10	23:33:02	47.70965817	-127.78610040	52.160	EVT	211.400	30.000	50m wire out, transfer winch to deck
2002/09/10	23:41:39	47.70965817	-127.78610040	0.274	EVT	262.450	30.000	Jason on surface
2002/09/10	23:44:42	47.70965817	-127.78610040	0.842	EVT	190.300	30.000	medea on deck
2002/09/10	23:46:52	47.70965817	-127.78610040	-0.151	EVT	245.050	30.000	Jason out of water

Event log: LEXEN 2002**Dive J2-006**

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/10	23:48:21	47.70965817	-127.78610040	0.164	EVT	329.440	30.000	securing power to Jason
2002/09/10	23:48:28	47.70965817	-127.78610040	0.164	EVT	329.440	30.000	Jason on deck

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/11	20:26:39	47.70969488	-127.78605684	1.226	EVT	61.800	30.000	getting ready for J2007
2002/09/11	20:53:18	47.70969488	-127.78605684	1.226	EVT	61.800	30.000	Pre-dive checks are complete
2002/09/11	21:18:16	47.70968726	-127.78611843	1.116	EVT	299.980	30.000	Preparing to launch Jason for J2-007
2002/09/11	21:18:25	47.70968450	-127.78611984	1.137	EVT	293.630	30.000	Medea off deck
2002/09/11	21:18:39	47.70965705	-127.78609881	1.144	EVT	214.740	30.000	Medea wet
2002/09/11	21:18:45	47.70966075	-127.78610769	1.130	EVT	232.080	30.000	Jason off deck
2002/09/11	21:19:11	47.70966413	-127.78611903	2.294	EVT	215.670	30.000	Jason wet
2002/09/11	21:20:11	47.70963519	-127.78625320	2.424	EVT	180.870	30.000	going down
2002/09/11	21:20:41	47.70966297	-127.78625337	12.401	EVT	178.000	30.000	heading down at 11 mpm
2002/09/11	21:21:32	47.70980712	-127.78625764	33.949	EVT	159.350	30.000	having trouble with winch
2002/09/11	21:21:40	47.70983348	-127.78626636	37.879	EVT	158.900	30.000	no data on winch in Jason van
2002/09/11	21:21:56	47.70987690	-127.78628197	46.053	EVT	158.790	30.000	J. Howland is on the move
2002/09/11	21:22:16	47.70992443	-127.78631913	55.487	EVT	159.290	30.000	40 m, control van now has winch comm
2002/09/11	21:22:26	47.70995313	-127.78633552	58.657	EVT	160.040	30.000	50 m, all stop
2002/09/11	21:22:39	47.70998308	-127.78636192	56.713	EVT	159.730	30.000	transferring control of winch to control van
2002/09/11	21:23:07	47.71006652	-127.78642702	56.870	EVT	160.120	30.000	flush pumps checked on Butterfield sampler and
	working							
2002/09/11	21:25:12	47.71032413	-127.78660463	56.309	EVT	161.040	30.000	van has control of winch
2002/09/11	22:28:24	47.71217006	-127.79325542	1822.882	EVT	117.030	30.000	problems with the port thruster
2002/09/11	22:50:03	47.71311554	-127.79526793	2617.521	EVT	16.250	30.000	c
2002/09/11	22:50:13	47.71310126	-127.79528022	2621.978	EVT	16.090	30.000	stuff
2002/09/11	22:52:13	47.71285701	-127.79538691	2638.194	EVT	179.840	23.170	bottom recorded on the altimeter
2002/09/11	22:52:23	47.71287029	-127.79537910	2643.645	ASNAP	176.950	17.510	
2002/09/11	22:53:30	47.71290137	-127.79537158	2658.183	EVT	70.130	3.460	bottom sighted
2002/09/11	22:54:24	47.71291103	-127.79533825	2658.501	ASNAP	95.950	3.300	
2002/09/11	22:54:27	47.71291170	-127.79533453	2658.454	EVT	96.310	3.310	holothurians (probably elasipods) on the bottom
2002/09/11	22:55:09	47.71290581	-127.79507626	2659.116	EVT	93.750	2.640	coming up on sampler
2002/09/11	22:55:57	47.71290659	-127.79506342	2658.406	EVT	96.950	3.360	lang sampler, with ophidiiform fish and holothurian
	inn left screen							
2002/09/11	22:56:24	47.71290680	-127.79506326	2657.798	ASNAP	96.820	4.050	
2002/09/11	22:58:02	47.71156579	-127.77874043	2657.520	EVT	86.950	4.280	Lang sampler
2002/09/11	22:58:24	47.71155994	-127.77871460	2657.541	ASNAP	76.660	4.280	
2002/09/11	22:59:58	47.71156743	-127.77868382	2657.426	EVT	76.590	4.400	shrimp
2002/09/11	23:00:24	47.71156083	-127.77867799	2656.567	ASNAP	72.580	5.480	
2002/09/11	23:01:09	47.71156472	-127.77866100	2655.681	EVT	72.660	6.190	s
2002/09/11	23:01:16	47.71156495	-127.77866078	2655.776	EVT	72.580	6.010	ampler
2002/09/11	23:01:53	47.71156656	-127.77865389	2655.729	EVT	72.590	6.200	ctenophjore
2002/09/11	23:02:24	47.71156618	-127.77865462	2655.749	ASNAP	72.650	6.010	
2002/09/11	23:02:28	47.71156617	-127.77865433	2655.742	EVT	72.860	6.060	moving manipulator arm near the sampler
2002/09/11	23:03:15	47.71156609	-127.77865440	2655.614	EVT	72.560	6.160	grabbing at the sampler
2002/09/11	23:04:24	47.71157162	-127.77865020	2655.722	ASNAP	72.470	6.020	

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/11	23:05:38	47.71157225	-127.77864814	2655.674	EVT	72.740	5.970	grasping the elevator
2002/09/11	23:05:52	47.71157255	-127.77864792	2655.965	EVT	72.390	6.010	pulling up on the sampler
2002/09/11	23:06:13	47.71157277	-127.77864788	2656.087	EVT	72.260	5.810	blank-text
2002/09/11	23:06:15	47.71157281	-127.77864786	2656.087	EVT	71.970	5.770	blank-text
2002/09/11	23:06:24	47.71157303	-127.77864769	2655.641	ASNAP	72.300	6.530	
2002/09/11	23:06:38	47.71157330	-127.77864626	2654.545	EVT	72.480	7.430	nice ctenophore on the right on that last blank text
	grab							
2002/09/11	23:07:12	47.71157318	-127.77864612	2654.626	EVT	72.600	7.250	continued manipulation
2002/09/11	23:08:03	47.71157302	-127.77864660	2654.870	EVT	72.250	7.180	polynoid
2002/09/11	23:08:24	47.71157274	-127.77864670	2654.843	ASNAP	72.650	7.570	
2002/09/11	23:10:24	47.71157295	-127.77864651	2654.349	ASNAP	72.470	7.700	
2002/09/11	23:11:04	47.71157342	-127.77864728	2654.200	EVT	59.650	7.680	ctenophore
2002/09/11	23:11:57	47.71157344	-127.77864751	2654.315	EVT	32.230	7.590	still holding the sampler
2002/09/11	23:12:24	47.71157476	-127.77864597	2654.396	ASNAP	30.130	7.860	
2002/09/11	23:12:25	47.71157548	-127.77864561	2654.329	EVT	30.330	7.670	shrimp
2002/09/11	23:14:24	47.71168305	-127.77856476	2654.383	ASNAP	25.100	7.780	
2002/09/11	23:15:01	47.71170446	-127.77855013	2654.309	EVT	19.520	7.580	approaching the tube
2002/09/11	23:15:31	47.71173619	-127.77853429	2654.227	EVT	19.330	7.580	the much vaunted pipe of 1026B
2002/09/11	23:15:53	47.71174438	-127.77853004	2654.173	EVT	18.950	7.720	metal cone sighted
2002/09/11	23:16:08	47.71175902	-127.77852117	2654.593	EVT	19.150	7.290	1026B
2002/09/11	23:16:24	47.71176516	-127.77851714	2654.227	ASNAP	19.800	7.690	
2002/09/11	23:16:47	47.71177063	-127.77851447	2654.207	EVT	19.220	7.680	1026B
2002/09/11	23:17:28	47.71177829	-127.77847196	2654.281	EVT	18.550	7.500	is that a fish by the base?
2002/09/11	23:18:22	47.71180535	-127.77844250	2654.207	EVT	19.130	7.570	moving above the cone
2002/09/11	23:18:24	47.71180623	-127.77844216	2654.214	ASNAP	19.480	7.680	
2002/09/11	23:19:14	47.71181550	-127.77843306	2654.376	EVT	19.220	7.530	maneuvering the Lang sampler to the cone
2002/09/11	23:19:30	47.71181523	-127.77843392	2654.214	EVT	19.180	7.510	lifting the sampler
2002/09/11	23:20:24	47.71182184	-127.77842969	2654.491	ASNAP	19.120	7.410	
2002/09/11	23:20:40	47.71182260	-127.77842909	2654.099	EVT	19.320	7.740	hovering with sampler
2002/09/11	23:22:24	47.71182443	-127.77842736	2655.377	ASNAP	19.130	6.420	
2002/09/11	23:23:39	47.71182370	-127.77842801	2655.005	EVT	19.140	6.670	dropping the sampler
2002/09/11	23:24:03	47.71181771	-127.77843108	2655.147	EVT	19.230	6.580	sampler placed next to the pipe
2002/09/11	23:24:22	47.71181717	-127.77843185	2655.539	EVT	19.050	6.080	sampler rising
2002/09/11	23:24:24	47.71181706	-127.77843213	2655.796	ASNAP	19.300	5.950	
2002/09/11	23:26:17	47.71181728	-127.77843163	2658.785	EVT	19.350	3.000	Susan is explicating the finer details of the sampler
2002/09/11	23:26:24	47.71181738	-127.77843075	2658.636	ASNAP	19.430	3.260	
2002/09/11	23:27:10	47.71181878	-127.77842986	2658.278	EVT	19.310	3.350	moving in to work with the sampler
2002/09/11	23:28:21	47.71182344	-127.77843640	2659.961	EVT	19.050	1.910	polynoid by the sampler
2002/09/11	23:28:24	47.71182423	-127.77843653	2659.630	ASNAP	19.040	2.190	
2002/09/11	23:30:24	47.71182695	-127.77844334	2659.860	ASNAP	42.090	1.920	
2002/09/11	23:31:10	47.71182746	-127.77844392	2659.813	EVT	51.830	1.960	manipulating the release pin tied to the red basket

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/11	23:31:46	47.71182729	-127.77844394	2659.698	EVT	52.130	1.990	Lang sampler, side view
2002/09/11	23:32:24	47.71182735	-127.77844379	2659.772	ASnap	52.140	1.910	
2002/09/11	23:32:31	47.71182732	-127.77844423	2659.549	EVT	52.140	2.030	grab the pipe
2002/09/11	23:33:22	47.71182752	-127.77844382	2659.867	EVT	52.080	1.820	consider pipe grabbed
2002/09/11	23:33:39	47.71182665	-127.77844424	2659.867	EVT	52.690	1.810	cord falling
2002/09/11	23:34:24	47.71182452	-127.77844926	2659.819	ASnap	53.380	1.990	
2002/09/11	23:34:56	47.71182464	-127.77844896	2659.475	EVT	50.990	2.240	error: arm is halting
2002/09/11	23:35:25	47.71182494	-127.77845278	2658.271	EVT	13.370	3.510	trying to maneuver sampler tube over towards main
	pipe							
2002/09/11	23:36:24	47.71183055	-127.77845244	2657.845	ASnap	342.680	4.010	
2002/09/11	23:36:25	47.71183052	-127.77845244	2657.831	EVT	342.680	3.960	heading towards the cone
2002/09/11	23:36:51	47.71183233	-127.77845350	2657.811	EVT	342.800	3.830	note shimmering flow above funnel
2002/09/11	23:37:13	47.71183368	-127.77845404	2657.967	EVT	342.740	3.770	sampling tube is above funnel
2002/09/11	23:37:31	47.71183487	-127.77845479	2657.879	EVT	342.230	3.820	fluid flow
2002/09/11	23:37:53	47.71183727	-127.77845574	2657.804	EVT	342.790	3.720	sampler tube is immersed in flow
2002/09/11	23:38:24	47.71183893	-127.77845637	2657.919	ASnap	342.900	3.670	
2002/09/11	23:38:57	47.71183867	-127.77845637	2657.973	EVT	342.790	3.490	CTD temperature 1.769
2002/09/11	23:39:06	47.71183985	-127.77845718	2658.095	EVT	342.640	3.430	tube in funnel
2002/09/11	23:39:25	47.71183910	-127.77845705	2658.224	EVT	342.700	3.360	sampling tube for Lang sampler
2002/09/11	23:39:33	47.71183899	-127.77845650	2658.007	EVT	342.720	3.500	blank-text
2002/09/11	23:39:36	47.71183881	-127.77845671	2657.953	EVT	342.650	3.510	blank-text
2002/09/11	23:39:40	47.71183871	-127.77845664	2658.095	EVT	342.770	3.460	blank-text
2002/09/11	23:40:03	47.71183886	-127.77845698	2658.230	EVT	342.670	3.460	shimmering flow above sampler
2002/09/11	23:40:23	47.71183791	-127.77845647	2658.183	EVT	342.710	3.450	more Lang sampler tube in funnel
2002/09/11	23:40:24	47.71183779	-127.77845633	2658.230	ASnap	342.660	3.480	
2002/09/11	23:41:31	47.71183530	-127.77845532	2658.271	EVT	342.770	3.320	looking lower on funnel
2002/09/11	23:42:03	47.71183289	-127.77845377	2657.994	EVT	342.630	3.580	checking for hose kinkage
2002/09/11	23:42:24	47.71183292	-127.77845387	2657.933	ASnap	342.730	3.680	
2002/09/11	23:42:43	47.71183305	-127.77845377	2658.048	EVT	342.740	3.620	Lang sampler at 1026B
2002/09/11	23:43:07	47.71183252	-127.77846345	2658.001	EVT	7.650	3.590	moving around
2002/09/11	23:44:24	47.71183672	-127.77848853	2658.021	ASnap	46.170	3.770	
2002/09/11	23:45:28	47.71184933	-127.77849253	2658.143	EVT	95.590	3.680	Lang sampling, different angle
2002/09/11	23:46:00	47.71185461	-127.77848833	2658.224	EVT	92.550	3.450	"probably slurping the side right now"
2002/09/11	23:46:24	47.71185347	-127.77848560	2658.291	ASnap	105.260	3.200	
2002/09/11	23:46:32	47.71185583	-127.77848520	2657.953	EVT	102.570	3.440	looking for the wire
2002/09/11	23:46:35	47.71185641	-127.77848533	2658.082	EVT	102.680	3.470	blank-text
2002/09/11	23:46:39	47.71185652	-127.77848539	2658.082	EVT	102.670	3.420	blank-text
2002/09/11	23:46:44	47.71185632	-127.77848523	2658.163	EVT	102.700	3.350	blank-text
2002/09/11	23:47:20	47.71185601	-127.77848558	2658.156	EVT	102.860	3.280	sampler pipe not quite at the funnel's orifice
2002/09/11	23:47:44	47.71184902	-127.77848912	2658.088	EVT	102.420	3.490	black box
2002/09/11	23:48:24	47.71183931	-127.77849209	2658.143	ASnap	102.550	3.680	

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/11	23:48:47	47.71183958	-127.77849198	2658.264	EVT	102.800	3.700	well that was fast
2002/09/11	23:50:13	47.71184563	-127.77853022	2658.176	EVT	103.160	3.430	polynoid
2002/09/11	23:50:24	47.71184589	-127.77853468	2658.244	ASNAP	103.040	3.490	
2002/09/11	23:52:24	47.71173571	-127.77854534	2658.041	ASNAP	178.380	3.600	
2002/09/11	23:54:24	47.71168525	-127.77854535	2657.859	ASNAP	178.110	3.800	
2002/09/11	23:55:30	47.71164511	-127.77854678	2658.230	EVT	178.310	3.470	tracks of some kind on the bottom?
2002/09/11	23:56:12	47.71160274	-127.77855495	2658.061	EVT	178.320	3.620	"Soviet Offroad Submarine" tracks
2002/09/11	23:56:24	47.71159911	-127.77855578	2658.318	ASNAP	175.270	3.460	
2002/09/11	23:58:24	47.71148082	-127.77854867	2658.426	ASNAP	174.730	3.450	
2002/09/11	23:58:50	47.71145269	-127.77854379	2658.095	EVT	174.620	3.630	sampler sighted
2002/09/11	23:59:49	47.71138785	-127.77850984	2658.203	EVT	175.240	3.570	approaching Barrel Sampler #1
2002/09/12	00:00:24	47.71134834	-127.77850724	2658.156	ASNAP	174.560	3.650	
2002/09/12	00:00:51	47.71132309	-127.77850387	2657.994	EVT	174.730	3.760	BS1
2002/09/12	00:02:21	47.71131015	-127.77849291	2658.474	EVT	174.950	3.350	Barrel Samples of the aforementioned barrel sampler
2002/09/12	00:02:24	47.71131021	-127.77849295	2658.224	ASNAP	174.930	3.550	
2002/09/12	00:03:31	47.71130050	-127.77849482	2657.886	EVT	174.710	3.860	hovering above barrel sampler #1
2002/09/12	00:04:12	47.71129191	-127.77849496	2657.879	EVT	174.740	3.850	blank-text
2002/09/12	00:04:24	47.71129058	-127.77849472	2657.926	ASNAP	174.580	3.860	
2002/09/12	00:04:53	47.71129066	-127.77849589	2658.021	EVT	174.810	3.750	manipulating floats on the sampler
2002/09/12	00:05:59	47.71128816	-127.77849573	2658.217	EVT	175.000	3.550	lifting sampler
2002/09/12	00:06:24	47.71128817	-127.77849582	2658.136	ASNAP	174.790	3.730	
2002/09/12	00:06:50	47.71128820	-127.77849636	2658.034	EVT	169.830	3.750	tugging at the sampler
2002/09/12	00:08:24	47.71128679	-127.77849591	2658.088	ASNAP	159.540	3.920	
2002/09/12	00:09:21	47.71128483	-127.77849342	2658.021	EVT	161.380	3.810	blank-text
2002/09/12	00:10:23	47.71129040	-127.77849512	2657.899	EVT	157.600	3.860	dropping sampler
2002/09/12	00:10:24	47.71129066	-127.77849507	2657.899	ASNAP	157.590	3.860	
2002/09/12	00:12:24	47.71129232	-127.77849378	2659.042	ASNAP	178.010	2.650	
2002/09/12	00:12:40	47.71129222	-127.77849409	2659.488	EVT	177.690	2.350	sediment thrown up around the barrel sampler
2002/09/12	00:14:24	47.71129593	-127.77848008	2660.908	ASNAP	177.130	0.990	
2002/09/12	00:15:41	47.71125478	-127.77851693	2661.415	EVT	177.330	30.000	removing bricks from the basket
2002/09/12	00:16:57	47.71117213	-127.77853770	2661.307	EVT	177.400	30.000	going for more weights
2002/09/12	00:17:35	47.71116104	-127.77856911	2661.172	EVT	177.460	30.000	dropping weights
2002/09/12	00:20:00	47.71118272	-127.77858935	2658.433	EVT	177.600	3.170	top of the sampler
2002/09/12	00:20:15	47.71118275	-127.77858920	2658.670	EVT	177.080	2.950	grabbing teh sampler assemblage
2002/09/12	00:20:24	47.71118262	-127.77858914	2658.555	ASNAP	177.750	3.090	
2002/09/12	00:22:24	47.71117899	-127.77859217	2657.838	EVT	178.320	4.070	carrying Barrel Sampler #1
2002/09/12	00:22:24	47.71117896	-127.77859212	2657.831	ASNAP	178.310	4.000	
2002/09/12	00:24:24	47.71118111	-127.77859259	2656.648	ASNAP	241.950	5.290	
2002/09/12	00:26:24	47.71122891	-127.77859158	2656.729	ASNAP	359.490	5.320	
2002/09/12	00:27:28	47.71129469	-127.77859221	2656.567	EVT	359.710	5.330	shrimp
2002/09/12	00:28:24	47.71131034	-127.77859227	2656.608	ASNAP	359.250	5.170	

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/12	00:30:24	47.71133432	-127.77859273	2656.655	ASNAP	359.380 5.310	
2002/09/12	00:32:06	47.71133736	-127.77859338	2656.743	EVT	359.300 5.130	the barrel sampler was too heavy for Jason to lift at
	first						
2002/09/12	00:32:10	47.71133756	-127.77859353	2656.682	EVT	359.410 5.100	so they
2002/09/12	00:32:24	47.71133974	-127.77859414	2655.566	ASNAP	359.280 6.430	
2002/09/12	00:33:50	47.71135845	-127.77859328	2654.694	EVT	359.710 7.070	removed two of the plates; still too heavy so they
	increased power to Jason's thrusters						
2002/09/12	00:34:24	47.70005737	-127.80000630	2658.170	ASNAP	359.300 3.440	
2002/09/12	00:34:31	47.70006669	-127.80000664	2657.825	EVT	1.650 3.950	now BS#1 is liftable by Jason
2002/09/12	00:35:04	47.76224669	-127.75934267	2659.022	EVT	359.630 2.710	Jason dropped BS#1
2002/09/12	00:36:25	47.76224671	-127.75934274	2658.156	ASNAP	359.580 3.420	
2002/09/12	00:37:13	47.76224955	-127.75934310	2658.190	EVT	359.570 3.500	we see the elevator now
2002/09/12	00:38:25	47.76226602	-127.75933791	2658.224	ASNAP	359.730 3.310	
2002/09/12	00:39:56	47.76230315	-127.75934079	2656.804	EVT	359.800 4.960	Jason has picked up the elevator again
2002/09/12	00:40:25	47.76234599	-127.75933554	2656.695	ASNAP	0.080 4.840	
2002/09/12	00:41:17	47.76234627	-127.75933485	2654.457	EVT	359.800 7.340	now moving towards hole 1026b
2002/09/12	00:42:25	47.76235209	-127.75933566	2653.037	ASNAP	359.750 8.750	
2002/09/12	00:44:25	47.76241293	-127.75933517	2653.260	ASNAP	359.340 8.350	
2002/09/12	00:46:25	47.76244635	-127.75930729	2653.125	ASNAP	66.970 8.180	
2002/09/12	00:48:25	47.76246595	-127.75933617	2653.720	ASNAP	73.580 7.680	
2002/09/12	00:48:29	47.76246626	-127.75933751	2653.768	EVT	73.660 7.600	we can see the Lang sampler: we are at 1026b
2002/09/12	00:50:25	47.76245571	-127.75936905	2657.034	ASNAP	73.580 4.300	
2002/09/12	00:52:25	47.76242798	-127.75938538	2657.723	ASNAP	37.570 3.650	
2002/09/12	00:53:43	47.76242782	-127.75929813	2657.602	EVT	314.900 3.620	view of both samplers at 1026b
2002/09/12	00:54:25	47.76242846	-127.75929619	2657.622	ASNAP	315.080 3.710	
2002/09/12	01:03:42	47.76250936	-127.75939444	2660.063	ASNAP	343.670 1.320	
2002/09/12	01:13:39	47.76252827	-127.75937096	2660.813	EVT	292.050 30.000	still waiting for the sediment to clear
2002/09/12	01:17:37	47.76251645	-127.75939410	2660.732	EVT	293.500 30.000	sediment starting to clear, moving the manipulator
	arm						
2002/09/12	01:19:28	47.76255040	-127.75927407	2660.712	EVT	294.930 30.000	closeip of sampler
2002/09/12	01:20:46	47.76255145	-127.75928583	2660.753	EVT	295.330 1.290	sampling tube on barrel sampler 1 grabbed
2002/09/12	01:23:01	47.76255396	-127.75923881	2658.852	EVT	348.140 2.340	maneuvering the sampler tube
2002/09/12	01:24:10	47.76255425	-127.75923946	2659.136	EVT	348.050 2.080	stirred up the sediment again
2002/09/12	01:29:16	47.76257755	-127.75924190	2657.662	EVT	357.910 3.500	moving barrel sampler tube towards funnel
2002/09/12	01:30:43	47.76259742	-127.75924257	2657.426	EVT	358.180 3.620	fish by base of pipe
2002/09/12	01:31:15	47.76259901	-127.75924288	2657.162	EVT	357.990 3.740	looks like a macrourid
2002/09/12	01:31:48	47.76259895	-127.75924273	2657.426	EVT	357.990 3.540	putting the nozzle in
2002/09/12	01:32:13	47.76259912	-127.75924236	2657.176	EVT	357.970 3.690	BS #1 nozzle being placed inside the funnel of 1026B
2002/09/12	01:32:31	47.76259891	-127.75924272	2657.291	EVT	358.140 3.620	nozzle right in the hole
2002/09/12	01:32:50	47.76259884	-127.75924336	2657.331	EVT	358.000 3.550	looking down at sampler nozzles
2002/09/12	01:34:11	47.76259875	-127.75924358	2657.034	EVT	8.040 3.840	zoom in on the sampler nozzles

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	01:34:33	47.76259870	-127.75924353	2656.885	EVT	8.120	3.910	we want both nozzles directly in the base of the funnel
2002/09/12	01:34:59	47.76259923	-127.75924344	2657.034	EVT	8.250	3.850	going to wiggle in the Lang sampler nozzle
2002/09/12	01:35:27	47.76259934	-127.75924358	2657.263	EVT	8.080	3.750	ctenophore
2002/09/12	01:35:52	47.76259952	-127.75924347	2657.094	EVT	7.970	3.730	moving the Lang sampler tube
2002/09/12	01:37:29	47.76259945	-127.75924367	2656.892	EVT	7.960	3.820	note flakes of corroded aluminum floating up
2002/09/12	01:37:52	47.76259946	-127.75924342	2657.040	EVT	8.010	3.850	still trying to maneuver Lang sampler nozzle into just the right position
2002/09/12	01:38:09	47.76259957	-127.75924347	2656.865	EVT	7.590	3.940	blank-text
2002/09/12	01:38:12	47.76259938	-127.75924342	2656.979	EVT	7.960	3.940	blank-text
2002/09/12	01:40:49	47.76259936	-127.75924349	2657.169	EVT	8.030	3.670	pondering our next move
2002/09/12	01:41:17	47.76259862	-127.75924350	2657.121	EVT	8.130	3.740	"probably bathed in 100% fluid right now", says Paul
2002/09/12	01:41:37	47.76259860	-127.75924349	2657.203	EVT	7.940	3.680	looks like this is as good as it gets for the Lang sampler nozzle, Susan gives the go ahead
2002/09/12	01:42:04	47.76259870	-127.75924342	2656.986	EVT	7.920	3.850	The sampling nozzles for both the Lang Sampler and Barrel Sampler 1 are now in place in the funnel of 1026B
2002/09/12	01:44:09	47.76256813	-127.75924061	2656.986	EVT	343.280	3.890	pulling away from 1026b
2002/09/12	01:45:00	47.76254578	-127.75922566	2657.054	EVT	310.200	3.820	barrel sampler #1 in place
2002/09/12	01:46:07	47.76254623	-127.75922563	2657.385	EVT	275.180	3.560	BS1
2002/09/12	01:46:23	47.76254540	-127.75922600	2657.277	EVT	275.400	3.710	Heading 311
2002/09/12	01:48:29	47.76249162	-127.75929514	2656.033	EVT	14.160	4.850	moving about the sampling zone of 1026b
2002/09/12	01:49:34	47.76249890	-127.75929251	2654.139	EVT	17.470	6.650	gonna take you right into the sampling zone
2002/09/12	01:59:17	47.76308825	-127.75996511	2653.267	EVT	317.140	7.360	blank-text
2002/09/12	01:59:30	47.76308706	-127.75996305	2653.254	EVT	317.100	7.420	that was a ctenophore
2002/09/12	02:02:36	47.76327430	-127.76030311	2653.517	EVT	316.550	7.290	blank-text
2002/09/12	02:02:52	47.76330204	-127.76034038	2653.457	EVT	317.760	7.140	that was another ctenophore
2002/09/12	02:06:45	47.76354765	-127.76071379	2653.477	EVT	311.760	7.100	macrourid
2002/09/12	02:11:53	47.76375396	-127.76122142	2653.200	EVT	312.010	7.190	blank-text
2002/09/12	02:13:21	47.76374261	-127.76123664	2653.450	EVT	311.790	6.940	blank-text
2002/09/12	02:14:33	47.76377566	-127.76128959	2653.132	EVT	312.370	7.250	blank-text
2002/09/12	02:14:49	47.76379213	-127.76131728	2653.815	EVT	311.460	6.620	that was a polynoid polychaete
2002/09/12	02:19:15	47.76385395	-127.76141917	2653.517	EVT	311.310	6.670	blank-text
2002/09/12	02:19:29	47.76386586	-127.76143889	2652.970	EVT	312.120	7.200	more ctenophores
2002/09/12	02:21:20	47.76386300	-127.76143516	2653.328	EVT	311.730	6.910	blank-text
2002/09/12	02:21:25	47.76386273	-127.76143507	2653.355	EVT	311.730	6.890	blank-text
2002/09/12	02:21:27	47.76386296	-127.76143467	2653.335	EVT	312.060	6.980	blank-text
2002/09/12	02:21:36	47.76386280	-127.76143518	2653.504	EVT	311.760	6.840	those last three were of a ctenophore
2002/09/12	02:24:41	47.76386299	-127.76143508	2653.423	EVT	311.820	6.860	blank-text
2002/09/12	02:25:08	47.76386285	-127.76143516	2653.335	EVT	311.740	6.960	I really can'
2002/09/12	02:25:33	47.76386278	-127.76143498	2653.193	EVT	311.460	7.040	I really can't tell whether that last creature (center screen, under arm) was a squid or a crustacean

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	02:34:40	47.76386255	-127.76143512	2653.477	EVT	311.710	6.590	blank-text
2002/09/12	02:41:51	47.76386283	-127.76143476	2653.186	EVT	311.730	6.880	elevator launched
2002/09/12	04:00:10	47.76267741	-127.76038840	2653.355	EVT	170.110	6.110	elevator reached bottom 6 minutes ago; calling it
	target 50							
2002/09/12	04:12:12	47.76216432	-127.75997820	2653.490	EVT	234.060	6.050	blank-text
2002/09/12	04:12:23	47.76215314	-127.75995954	2653.382	EVT	233.740	6.130	we found something on seafloor near elevator; not
	elevator							
2002/09/12	04:12:26	47.76215087	-127.75995479	2653.355	EVT	233.820	6.190	blank-text
2002/09/12	04:12:42	47.76214046	-127.75992904	2653.382	EVT	233.790	6.150	chair
2002/09/12	04:14:24	47.76212547	-127.75985338	2656.378	EVT	187.910	3.150	LogEvent
2002/09/12	04:14:25	47.76212553	-127.75985347	2656.378	EVT	192.220	3.100	LogEvent
2002/09/12	04:14:27	47.76212626	-127.75985458	2656.364	EVT	214.930	3.130	blank-text
2002/09/12	04:14:36	47.76212967	-127.75985108	2656.466	EVT	299.000	3.180	that was a shark
2002/09/12	04:18:21	47.76222645	-127.75972387	2655.343	EVT	40.850	4.090	blank-text
2002/09/12	04:18:42	47.76226364	-127.75967555	2655.181	EVT	40.370	4.330	elevator found
2002/09/12	04:27:52	47.76237077	-127.75951921	2653.903	EVT	50.060	5.670	got elevator, transitting to 1026b
2002/09/12	04:34:24	47.76238283	-127.75961323	2651.895	EVT	21.090	7.610	We tried to run sm2000 again; overheated after 1h
	and we shut it down.							
2002/09/12	04:35:55	47.76251160	-127.75953859	2652.172	EVT	21.120	7.550	blank-text
2002/09/12	04:36:03	47.76252627	-127.75953056	2652.131	EVT	21.230	7.250	sight of elevator
2002/09/12	04:36:27	47.76256389	-127.75950923	2652.158	EVT	21.010	7.350	blank-text
2002/09/12	04:38:12	47.76261960	-127.75947951	2651.942	EVT	21.070	7.540	sight of hole
2002/09/12	04:39:59	47.76267301	-127.75953837	2652.605	EVT	59.370	6.740	sight of lang sampler
2002/09/12	04:41:09	47.76274298	-127.75953634	2652.388	EVT	101.050	6.980	blank-text
2002/09/12	04:43:03	47.76284564	-127.75945562	2652.375	EVT	138.590	7.150	at 1026b with elevator
2002/09/12	04:43:53	47.76282433	-127.75943917	2652.503	EVT	158.620	6.880	this is the second barrel sampler elevator
2002/09/12	04:47:48	47.76281098	-127.75945810	2655.093	EVT	146.880	3.940	previous picturprevious pictures show the Lang
	sampler to the left and the other barrel sampler to the right of 1026b							
2002/09/12	04:48:07	47.76282587	-127.75947131	2654.924	EVT	144.480	4.120	placing elevator by drill hole
2002/09/12	04:48:27	47.76284351	-127.75948915	2655.404	EVT	146.540	3.780	second barrel sampler released
2002/09/12	04:51:08	47.76282076	-127.75946719	2656.885	EVT	146.580	2.150	wire is burned on elevator
2002/09/12	04:54:11	47.76280879	-127.75946376	2657.913	EVT	147.460	1.160	barrel sampler
2002/09/12	04:55:00	47.76280992	-127.75946410	2657.825	EVT	146.590	1.260	this is the just deliver barrel sampler
2002/09/12	04:56:23	47.76276465	-127.75947121	2655.803	EVT	81.830	3.380	1026b cone
2002/09/12	04:56:58	47.76276731	-127.75947233	2655.891	EVT	81.960	3.000	both nozzels in 1026b
2002/09/12	04:58:52	47.76274591	-127.75942670	2655.864	EVT	102.690	3.030	inside of funnel
2002/09/12	04:59:03	47.76274616	-127.75942372	2656.060	EVT	103.090	2.870	LogEvent
2002/09/12	04:59:13	47.76274681	-127.75942239	2655.911	EVT	103.110	3.070	LogEvent
2002/09/12	04:59:50	47.76251613	-127.75941386	2656.040	EVT	102.170	2.920	red taped pipe is the Lang sampler
2002/09/12	05:00:23	47.76251420	-127.75941684	2655.228	EVT	100.940	3.620	the one with the pink tape is the first barrel sampler
2002/09/12	05:00:50	47.76251640	-127.75941493	2655.438	EVT	88.780	3.510	Lang sampler in the background

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	05:02:00	47.76251636	-127.75941504	2655.465	EVT	88.800	3.480	Susan wants to have her probe repositioned to center of hole
2002/09/12	05:02:34	47.76251638	-127.75941533	2655.316	EVT	88.710	3.470	close up of lang probe
2002/09/12	05:04:09	47.76251596	-127.75941628	2655.370	EVT	89.270	3.650	yellow line is attached to the Lang probe
2002/09/12	05:04:29	47.76251547	-127.75941631	2655.343	EVT	88.870	3.640	probe is in grasp
2002/09/12	05:04:54	47.76251538	-127.75941815	2655.641	EVT	87.470	3.350	probe is picked up
2002/09/12	05:05:57	47.76250183	-127.75941401	2655.620	EVT	78.710	3.600	close up, now moved more to the center of hole
2002/09/12	05:06:36	47.76251030	-127.75942893	2655.783	EVT	80.900	3.570	probe is more in the center and Susan is satisfied with it.
2002/09/12	05:06:44	47.76251054	-127.75942725	2655.330	EVT	77.680	3.850	LogEvent
2002/09/12	05:07:21	47.76251021	-127.75942635	2655.113	EVT	77.690	4.110	pilots camera can view down into hole
2002/09/12	05:07:50	47.76250819	-127.75943572	2655.147	EVT	84.950	3.980	AT no time did the probe appear to be sampling background seawater.
2002/09/12	05:08:30	47.76247177	-127.75944802	2655.174	EVT	132.170	3.760	back to the elevator
2002/09/12	05:10:21	47.76246855	-127.75945884	2657.744	EVT	133.150	1.320	at second barrel sampler elevator, about to grab nozzle
2002/09/12	05:13:38	47.76244628	-127.75948076	2658.582	EVT	124.970	30.000	there is a valve that needs to be turned on for each barrel
2002/09/12	05:14:35	47.76242645	-127.75950740	2658.541	EVT	124.950	30.000	nozzle
2002/09/12	05:16:16	47.76242521	-127.75959196	2658.609	EVT	125.010	30.000	left PVC handle is the valve that will be turned on
2002/09/12	05:17:10	47.76246327	-127.75960826	2658.670	EVT	125.040	30.000	lever has been turned
2002/09/12	05:17:29	47.76246169	-127.75961020	2658.494	EVT	125.050	30.000	switch
2002/09/12	05:17:47	47.76245888	-127.75961597	2658.541	EVT	125.050	30.000	on/off switch
2002/09/12	05:18:38	47.76244183	-127.75962236	2658.447	EVT	125.110	30.000	sampler is on
2002/09/12	05:18:53	47.76243915	-127.75963035	2658.596	EVT	125.060	30.000	tapping the handle
2002/09/12	05:19:11	47.76244612	-127.75965672	2658.568	EVT	125.070	30.000	shot of flow meter
2002/09/12	05:19:32	47.76244546	-127.75968797	2658.596	EVT	125.050	30.000	we do have flow
2002/09/12	05:19:46	47.76244464	-127.75970646	2658.535	EVT	125.030	30.000	LogEvent
2002/09/12	05:20:13	47.76244965	-127.75974059	2658.616	EVT	125.050	30.000	outflow pipe
2002/09/12	05:20:41	47.76245908	-127.75976711	2658.568	EVT	125.060	30.000	fresh water being pumped out
2002/09/12	05:21:15	47.76247480	-127.75979154	2658.541	EVT	125.040	30.000	pilot cam shows the shimmering much better
2002/09/12	05:22:30	47.76247345	-127.75984161	2658.562	EVT	125.050	30.000	units on pump are about .3, diminished from the beginning
2002/09/12	05:25:34	47.76247522	-127.75994779	2658.568	EVT	125.050	30.000	The barrel sampler has a large empty bag inside. The barrel is filled with fresh water. As the fresh water is pumped out, the bag fills with vent fluid. The sample will be done when we see no more shimmer.
2002/09/12	05:25:56	47.76247486	-127.75995328	2658.521	EVT	125.050	30.000	Th
2002/09/12	05:26:27	47.76247687	-127.75997407	2658.535	EVT	125.040	30.000	This will take about 1 hour per barrel.
2002/09/12	05:27:31	47.76250068	-127.76002110	2658.487	EVT	125.060	30.000	On/off switch again.
2002/09/12	05:29:21	47.76255179	-127.76009414	2658.447	EVT	125.040	30.000	Flow meter still on the lower end of range at .2-.3.
2002/09/12	05:38:26	47.76254717	-127.76037708	2658.467	EVT	125.020	30.000	pump turned off to check eflow meter

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	05:39:01	47.76253350	-127.76040607	2658.535	EVT	124.980	30.000	arm turning off pump
2002/09/12	05:40:17	47.76256711	-127.76048534	2658.508	EVT	124.890	30.000	no more shimmering effluent, pump flow meter at about 0.3 but not moving
2002/09/12	05:40:42	47.76256962	-127.76050295	2658.602	EVT	124.930	30.000	pump being turned on
2002/09/12	05:41:16	47.76259675	-127.76052214	2658.467	EVT	124.870	30.000	pump is on, flow is at 1.0 to begin
2002/09/12	05:41:32	47.76261251	-127.76052944	2658.460	EVT	124.870	30.000	now 0.5 flow
2002/09/12	05:43:12	47.76269607	-127.76058287	2658.555	EVT	124.850	30.000	again, flow meter down to .2-.3 but oscillating
2002/09/12	05:44:26	47.76276160	-127.76061655	2658.264	ASnap	125.810	0.810	
2002/09/12	05:45:03	47.76275497	-127.76062094	2658.629	EVT	99.530	30.000	moving to get a better angle on the flow meter.
2002/09/12	05:46:05	47.76275787	-127.76061842	2658.765	EVT	99.650	30.000	another valve is open and that is either sucking in seawater into barrels or collapsing them.
2002/09/12	05:47:35	47.76275224	-127.76061394	2658.650	EVT	99.540	30.000	LogEvent
2002/09/12	05:49:55	47.76265696	-127.76057788	2658.643	EVT	99.380	30.000	The valve in question was closed as deployed and this is why flow rate collapsed. An attempt to open the valve rotated a fitting but didn't open the valve.
2002/09/12	05:50:55	47.76259943	-127.76056699	2658.602	EVT	48.320	30.000	The valve is open now and flow is gushing out the exhaust.
2002/09/12	05:52:13	47.76257010	-127.76074718	2658.514	EVT	27.070	30.000	valve is open, in the asnap picture
2002/09/12	05:52:50	47.76257009	-127.76074719	2658.440	EVT	27.070	30.000	close up of valve
2002/09/12	05:53:23	47.76257008	-127.76074715	2658.481	EVT	27.130	30.000	tubing is flattened by tie wrap
2002/09/12	05:53:42	47.76257008	-127.76074715	2658.562	EVT	27.140	30.000	this might be restricting flow
2002/09/12	05:54:36	47.76257008	-127.76074716	2658.514	EVT	27.110	30.000	again, collapsed tube
2002/09/12	05:55:46	47.76256991	-127.76074701	2658.494	EVT	27.370	30.000	Valve will be closed, then handle straightened, then reopened.
2002/09/12	05:56:42	47.76267168	-127.76049338	2658.562	EVT	27.230	30.000	Now the hose is uninked by rotating fitting.
2002/09/12	05:58:08	47.76268254	-127.76050782	2657.642	EVT	66.990	1.370	moving to look at flowmeter
2002/09/12	05:58:26	47.76269164	-127.76050829	2657.710	ASnap	97.690	1.170	
2002/09/12	05:59:53	47.76269413	-127.76052745	2658.460	EVT	91.000	30.000	Units on the flowmeter are in liters/minute.
2002/09/12	06:01:13	47.76269876	-127.76052915	2658.514	EVT	90.740	30.000	flowmeter is at about 0.5 liters/min.
2002/09/12	06:05:01	47.76283981	-127.76059618	2658.460	EVT	90.690	30.000	hose looks fine now
2002/09/12	06:06:37	47.76288168	-127.76045531	2658.501	EVT	90.820	30.000	intake valve was closed for 20 minutes while still pumping. The concern is that the bag in this barrel may be broken.
2002/09/12	06:07:26	47.76289173	-127.76047336	2658.514	EVT	90.950	30.000	We are going to open the other barrel and close the first barrel to see the flow rate.
2002/09/12	06:07:53	47.76289266	-127.76045247	2658.514	EVT	91.120	30.000	.7 ml/min with both barrels
2002/09/12	06:08:47	47.76291648	-127.76044427	2658.582	EVT	91.020	30.000	first barrel closed. Now 1.0 L/min
2002/09/12	06:10:53	47.76293974	-127.76038936	2658.440	EVT	91.040	30.000	view of effluent
2002/09/12	06:12:45	47.76298475	-127.76034564	2658.413	EVT	91.100	30.000	right side barrel head
2002/09/12	06:13:01	47.76299129	-127.76033235	2658.494	EVT	91.100	30.000	left side barrel head
2002/09/12	06:13:47	47.76300389	-127.76031133	2658.399	EVT	91.060	30.000	no difference between the two-equal pressure?
2002/09/12	06:15:21	47.76302096	-127.76024912	2658.399	EVT	91.110	30.000	FLOW RATE 0.9 GALLONS/MINUTE

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	06:16:20	47.76302714	-127.76021394	2658.474	EVT	91.180	30.000	UNITS A.RE IN GALLONS/MINUTE, NOT LITERS/MIN
2002/09/12	06:18:51	47.76305391	-127.76012495	2658.420	EVT	91.250	30.000	right hand barrel will be filled before we switch back to left hand barrel.
2002/09/12	06:26:36	47.76318223	-127.75999315	2658.589	EVT	91.340	30.000	Still about 0.9 gal/min, capacity of barrels is about 30 gallons.
2002/09/12	06:29:54	47.76320833	-127.75994171	2658.670	EVT	91.390	30.000	picture of barrel elevator
2002/09/12	06:30:28	47.76322445	-127.75994571	2658.568	EVT	91.390	30.000	22 minutes since both barrels were opened.
2002/09/12	06:30:58	47.76324686	-127.75995220	2658.487	EVT	91.400	30.000	first barrel was soon cut off.
2002/09/12	06:31:51	47.76329428	-127.75996490	2658.555	EVT	91.400	30.000	flow rate .now below .8 g/min
2002/09/12	06:34:08	47.76343551	-127.76005258	2658.602	EVT	91.390	30.000	about .6 gal/min, may be getting close to full
2002/09/12	06:36:20	47.76356561	-127.76011718	2658.562	EVT	91.410	30.000	now .5 gal/min.
2002/09/12	06:37:49	47.76364135	-127.76013389	2658.602	EVT	91.410	30.000	effluent look
2002/09/12	06:38:51	47.76368756	-127.76014293	2658.568	EVT	91.420	30.000	0.4 gal/min.
2002/09/12	06:42:54	47.76387222	-127.76016924	2658.568	EVT	91.430	30.000	.35 gal/min
2002/09/12	06:47:56	47.76414942	-127.76020515	2658.474	EVT	91.460	30.000	Lang sampler to the left and background of elevator and the borehole is further left.
2002/09/12	06:52:05	47.76246203	-127.75933819	2658.582	EVT	91.440	30.000	Flow is slowed down to 0.25 gallons/minute
2002/09/12	07:01:03	47.76256500	-127.75933555	2658.602	EVT	91.380	30.000	The gauge is still reading 0.25 gallons/minute, but there is no movement
2002/09/12	07:01:11	47.76257037	-127.75933672	2658.643	EVT	91.370	30.000	We do, though, still see shimmery flow coming out
2002/09/12	07:10:28	47.76250222	-127.75922406	2658.596	EVT	91.380	30.000	Flow meter is unchanged, 0.15-0.25 gallons/minute
2002/09/12	07:10:38	47.76250382	-127.75921765	2658.602	EVT	91.380	30.000	There is still flow coming out of the top of the pipe
2002/09/12	07:18:24	47.76245789	-127.75932344	2658.589	EVT	91.420	30.000	Does the barrel on the right look like it is collapsing on top?
2002/09/12	07:19:06	47.76246360	-127.75931256	2658.670	EVT	91.420	30.000	Yes, the barrel on the right (barrel 1B) is collapsing on the top
2002/09/12	07:22:34	47.76250287	-127.75928995	2658.717	EVT	91.480	30.000	We are going to open the other barrel and close this one
2002/09/12	07:25:07	47.76268648	-127.75929859	2658.710	EVT	91.670	30.000	Both barrels are open now
2002/09/12	07:28:19	47.76270112	-127.75932544	2658.778	EVT	91.660	30.000	We are closing off barrel 1B (right hand barrel)
2002/09/12	07:29:16	47.76269922	-127.75937506	2658.744	EVT	91.630	30.000	Barrel 1B is closed
2002/09/12	07:29:29	47.76269732	-127.75937804	2658.812	EVT	91.650	30.000	0.3 gallons/minute flow for barrel 2 (left one)
2002/09/12	07:31:10	47.76269874	-127.75942993	2658.771	EVT	91.650	30.000	We are going to use the ICL to check the temperature of the outflow
2002/09/12	07:32:48	47.76268632	-127.75944307	2658.859	EVT	91.650	30.000	The arm is showing a little chatter
2002/09/12	07:35:42	47.76279363	-127.75969653	2658.798	EVT	91.660	30.000	The ICL is in position over the exhaust
2002/09/12	07:37:29	47.76279531	-127.75981383	2658.751	EVT	91.660	30.000	Looks like the ICL isn't working
2002/09/12	07:39:10	47.76274493	-127.75989054	2658.893	EVT	91.630	30.000	The ICL isn't going to work
2002/09/12	07:45:49	47.76272367	-127.75986804	2658.846	EVT	91.680	30.000	3 of the little green windows on the screen went away-all but navigation

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12 07:48:02		47.76272059	-127.75987543	2658.913	EVT	91.690	30.000	getting error messages on the other computer
2002/09/12 07:56:05		47.76259329	-127.76075551	2658.866	EVT	91.680	30.000	closed right valve
2002/09/12 07:58:28		47.76260270	-127.76071196	2658.846	EVT	91.640	30.000	closed the valve on the barrel sampler
2002/09/12 08:02:40		47.76256994	-127.76070649	2659.055	EVT	91.630	30.000	Jonathan is trying to fix up the other logging computer
2002/09/12 08:04:17		47.76254837	-127.76075054	2656.182	EVT	103.190	3.180	going 150 m due east of the ODP hole
2002/09/12 08:04:28		47.76254455	-127.76075057	2655.485	ASNAP	122.280	3.970	
2002/09/12 08:05:32		47.76245318	-127.75938059	2652.030	EVT	122.160	7.110	Logging system and computers are back up
2002/09/12 08:05:52		47.76244674	-127.75936559	2652.023	EVT	122.020	7.260	We will be deploying wood for Janet
2002/09/12 08:06:28		47.76244725	-127.75936683	2652.334	ASNAP	91.860	7.010	
2002/09/12 08:08:28		47.76244734	-127.75936665	2652.179	ASNAP	91.750	7.180	
2002/09/12 08:10:28		47.76255554	-127.75911800	2652.882	ASNAP	92.660	6.490	
2002/09/12 08:12:28		47.76256839	-127.75896357	2651.509	ASNAP	91.760	7.950	
2002/09/12 08:14:28		47.76253932	-127.75879705	2651.529	ASNAP	91.700	7.700	
2002/09/12 08:16:28		47.76253532	-127.75861521	2651.367	ASNAP	91.460	7.790	
2002/09/12 08:18:28		47.76253102	-127.75847627	2651.354	ASNAP	91.670	7.670	
2002/09/12 08:20:28		47.76251683	-127.75827099	2651.340	ASNAP	91.720	7.770	
2002/09/12 08:22:28		47.76251346	-127.75810894	2651.225	ASNAP	91.670	8.020	
2002/09/12 08:24:28		47.76251029	-127.75796973	2651.597	ASNAP	91.640	7.650	
2002/09/12 08:26:28		47.76250690	-127.75776732	2651.448	ASNAP	91.610	7.870	
2002/09/12 08:28:28		47.76252509	-127.75758970	2651.293	ASNAP	91.890	8.200	
2002/09/12 08:30:28		47.76257297	-127.75746665	2651.455	ASNAP	91.680	8.010	
2002/09/12 08:32:28		47.76257628	-127.75746046	2651.266	ASNAP	91.770	8.180	
2002/09/12 08:34:28		47.76257626	-127.75746065	2651.259	ASNAP	91.680	8.150	
2002/09/12 08:36:27		47.76257627	-127.75746061	2651.414	EVT	91.930	8.140	We are pulling the port swing arm out with Janet's wood on it
2002/09/12 08:36:28		47.76257629	-127.75746061	2651.414	ASNAP	91.740	8.050	
2002/09/12 08:37:55		47.76257497	-127.75741871	2658.406	EVT	92.080	1.270	Seafloor in view
2002/09/12 08:38:28		47.76257537	-127.75741982	2657.365	ASNAP	91.870	2.220	
2002/09/12 08:40:05		47.76258495	-127.75742020	2657.439	EVT	91.630	2.190	Waiting for things to settle on the bottom
2002/09/12 08:40:28		47.76258476	-127.75742007	2657.419	ASNAP	91.580	2.180	
2002/09/12 08:42:28		47.76258399	-127.75740611	2658.562	ASNAP	91.550	1.360	
2002/09/12 08:43:59		47.76258250	-127.75732486	2657.906	EVT	91.500	1.650	Traversing the seafloor looking for a place to put the wood
2002/09/12 08:44:18		47.76258262	-127.75732713	2657.865	EVT	91.670	1.620	Deploying wood 150m east of ODP 1026B
2002/09/12 08:44:28		47.76258230	-127.75732683	2658.115	ASNAP	91.690	1.570	
2002/09/12 08:46:28		47.76258227	-127.75732729	2658.048	ASNAP	91.840	1.500	
2002/09/12 08:46:39		47.76258255	-127.75732740	2657.859	EVT	91.630	1.700	First bundle of wood with Marker X deployed
2002/09/12 08:46:59		47.76258230	-127.75732731	2658.001	EVT	92.170	1.620	Second bundle of wood with Marker X deployed
2002/09/12 08:48:28		47.76258230	-127.75732729	2657.926	ASNAP	92.260	1.750	
2002/09/12 08:48:28		47.76258230	-127.75732729	2657.926	EVT	92.260	1.750	Deploying third bundle of wood with Marker X

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	08:49:14	47.76258264	-127.75732749	2657.994	EVT	91.830	1.690	Retracting port swing arm
2002/09/12	08:50:11	47.76258285	-127.75734313	2657.913	EVT	91.410	1.730	Moving off the seafloor away from the wood
2002/09/12	08:50:23	47.76258284	-127.75734030	2658.115	EVT	91.690	1.610	Waiting for the sediment to clear so we can frame
	grab							
2002/09/12	08:50:28	47.76258282	-127.75734045	2657.899	ASnap	91.990	1.790	
2002/09/12	08:52:28	47.76258308	-127.75734033	2657.892	ASnap	91.650	1.720	
2002/09/12	08:54:28	47.76258305	-127.75734026	2657.757	ASnap	91.600	1.910	
2002/09/12	08:56:11	47.76258575	-127.75734469	2656.046	EVT	22.470	3.560	We are done deploying wood and will begin
	transitting back to Hole 1026B							
2002/09/12	08:56:28	47.76258258	-127.75733926	2654.072	ASnap	282.250	5.660	
2002/09/12	08:57:26	47.76258241	-127.75733962	2652.537	EVT	273.510	7.270	Going back to Hole 1026B
2002/09/12	08:58:28	47.76258252	-127.75733965	2652.584	ASnap	273.420	7.130	
2002/09/12	09:00:28	47.76258220	-127.75733969	2652.523	ASnap	273.390	7.070	
2002/09/12	09:02:28	47.76258737	-127.75745595	2652.564	ASnap	273.730	7.220	
2002/09/12	09:04:28	47.76259241	-127.75756123	2652.165	ASnap	273.430	7.520	
2002/09/12	09:06:28	47.76259664	-127.75765896	2652.422	ASnap	273.410	7.370	
2002/09/12	09:08:28	47.76260211	-127.75780246	2652.557	ASnap	273.560	7.150	
2002/09/12	09:10:28	47.76259424	-127.75796102	2652.239	ASnap	273.280	7.410	
2002/09/12	09:12:24	47.76260054	-127.75815808	2652.490	EVT	274.220	7.140	Phil is driving now
2002/09/12	09:12:28	47.76260100	-127.75816617	2652.564	ASnap	273.660	7.120	
2002/09/12	09:14:28	47.76260982	-127.75839041	2652.361	ASnap	273.480	7.340	
2002/09/12	09:16:28	47.76261489	-127.75848343	2652.422	ASnap	271.230	7.310	
2002/09/12	09:18:28	47.76261795	-127.75865424	2655.431	ASnap	272.170	4.250	
2002/09/12	09:20:28	47.76262548	-127.75891934	2655.600	ASnap	272.450	4.300	
2002/09/12	09:22:28	47.76259434	-127.75896930	2655.641	ASnap	272.490	4.470	
2002/09/12	09:24:28	47.76249957	-127.75897498	2655.553	ASnap	272.230	4.490	
2002/09/12	09:25:21	47.76249047	-127.75897545	2655.614	EVT	272.220	4.380	Hole 1026B in view
2002/09/12	09:26:28	47.76240069	-127.75898149	2655.303	ASnap	271.160	4.580	
2002/09/12	09:28:28	47.76240373	-127.75901257	2655.384	ASnap	270.790	4.580	
2002/09/12	09:30:28	47.76242903	-127.75911931	2655.843	ASnap	287.460	4.330	
2002/09/12	09:31:35	47.70000433	-127.80003399	2655.620	EVT	293.890	4.420	The other elevator is in view- we are preparing to
	move it closer to the hole							
2002/09/12	09:32:28	47.76245161	-127.75938969	2655.458	ASnap	294.270	4.600	
2002/09/12	09:34:17	47.76242589	-127.75932516	2655.546	EVT	359.000	4.490	Trying to decide where to move the second un-filled
	barrel sampler elevator							
2002/09/12	09:34:28	47.76242876	-127.75938035	2655.417	ASnap	58.260	4.730	
2002/09/12	09:35:59	47.76259781	-127.75937733	2655.580	EVT	130.280	4.630	Will is back in the controls
2002/09/12	09:36:28	47.76259774	-127.75937740	2656.635	ASnap	130.380	3.470	
2002/09/12	09:37:36	47.76259714	-127.75937717	2657.074	EVT	133.630	3.150	There is another big hole on the seafloor
2002/09/12	09:37:47	47.76259825	-127.75937720	2656.986	EVT	132.660	3.160	We didn't make it
2002/09/12	09:38:29	47.76258445	-127.75936785	2657.000	ASnap	52.930	3.180	

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	09:40:28	47.76258964	-127.75933960	2657.061	EVT	53.270	3.990	Positioning ourselves next to elevator 2
2002/09/12	09:40:29	47.76258964	-127.75933960	2657.061	ASNAP	53.270	3.990	
2002/09/12	09:40:45	47.76259019	-127.75934081	2657.020	EVT	52.590	4.060	Picking up elevator 2
2002/09/12	09:42:29	47.76258808	-127.75937553	2649.913	ASNAP	53.400	10.150	
2002/09/12	09:44:29	47.76248044	-127.75934634	2651.847	ASNAP	53.370	8.400	
2002/09/12	09:45:09	47.76248108	-127.75934738	2653.707	EVT	52.980	6.670	Maneuvering with elevator 2
2002/09/12	09:46:29	47.76243464	-127.75934156	2654.417	ASNAP	6.930	6.170	
2002/09/12	09:48:29	47.76246269	-127.75926097	2656.242	ASNAP	355.270	3.770	
2002/09/12	09:49:20	47.76244045	-127.75926228	2656.797	EVT	355.350	3.430	We put elevator 2 down
2002/09/12	09:50:29	47.76248391	-127.75935318	2656.127	ASNAP	119.240	4.020	
2002/09/12	09:51:30	47.76248738	-127.75934247	2659.637	EVT	99.010	30.000	Sitting down in front of elevator 1 to check the pump
2002/09/12	09:53:40	47.76254309	-127.75924926	2660.043	EVT	99.520	30.000	Barrel 1A was just turned on
2002/09/12	09:54:23	47.76252196	-127.75928266	2660.198	EVT	99.540	30.000	It is sucking at 0.4 gallons/minute
2002/09/12	09:55:01	47.76250712	-127.75930637	2660.130	EVT	99.530	30.000	Actually, it's 0.7
2002/09/12	10:06:14	47.76249766	-127.75926544	2660.164	EVT	100.020	30.000	Barrel 1 is at 0.4 gallons/minute
2002/09/12	10:13:34	47.76238958	-127.75946775	2660.212	EVT	100.220	30.000	approximately 2.5 gallons per minute now
2002/09/12	10:14:18	47.76237828	-127.75949805	2660.374	EVT	100.230	30.000	Flow is decreasing
2002/09/12	10:18:20	47.76235170	-127.75957669	2660.259	EVT	100.280	30.000	That should have been 0.25 gallons/minute
2002/09/12	10:27:05	47.76249351	-127.75946205	2660.408	EVT	100.310	30.000	The flow remains low
2002/09/12	10:29:18	47.76252070	-127.75954907	2660.414	EVT	100.300	30.000	It looks like the flow has almost stopped
2002/09/12	10:35:04	47.76257519	-127.75969415	2660.279	EVT	100.280	30.000	The flow meter stopped moving, but there is still exhaust coming out
2002/09/12	10:40:02	47.76262685	-127.75978759	2660.455	EVT	100.280	30.000	The flow meter has not moved for 10 minutes, so we are shutting it off
2002/09/12	10:40:27	47.76262787	-127.75980276	2660.529	EVT	100.240	30.000	Turning the valve off on Barrel 1A
2002/09/12	10:41:58	47.76263929	-127.75986129	2660.448	EVT	100.170	30.000	No more exhaust is visible-the pump is off too
2002/09/12	10:45:45	47.76248951	-127.75938403	2660.354	EVT	100.150	30.000	Watch change
2002/09/12	10:57:25	47.76260413	-127.75953408	2660.469	EVT	99.430	30.000	connecting elevator one to elevator two
2002/09/12	10:59:36	47.76256115	-127.75946958	2659.948	EVT	335.030	30.000	blew up some dust... will have to wait for it to settle
2002/09/12	10:59:57	47.76255498	-127.75946295	2660.414	EVT	327.030	30.000	still have the nozzle male end though so hopefully it will remain in the manipulator
2002/09/12	11:02:11	47.76250775	-127.75961914	2660.536	EVT	327.420	30.000	slowly clearing up
2002/09/12	11:06:29	47.76252977	-127.75924997	2659.515	ASNAP	342.780	1.190	
2002/09/12	11:07:18	47.76254757	-127.75922674	2660.590	EVT	2.550	30.000	at the bouncing elevator 2... kicked up some sediment again
2002/09/12	11:07:56	47.76251043	-127.75904080	2660.482	EVT	2.500	30.000	note the dust... it is dusty... dusty dusty dusty
2002/09/12	11:08:10	47.76247791	-127.75893567	2660.529	EVT	2.480	30.000	perhaps the dust will get into the port... something to think about
2002/09/12	11:12:21	47.76258830	-127.75843803	2660.536	EVT	2.390	30.000	going to connect the elevator to the sampling nozzle
2002/09/12	11:13:33	47.76259546	-127.75847131	2660.658	EVT	2.960	30.000	probe inserted... trying to get it in past o-rings
2002/09/12	11:15:00	47.76257188	-127.75850244	2660.550	EVT	3.320	30.000	tapped in

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	11:15:24	47.76260196	-127.75852985	2660.658	EVT	3.290	30.000	that must be sealed...
2002/09/12	11:16:05	47.76267642	-127.75861349	2660.563	EVT	3.220	30.000	opening valve
2002/09/12	11:16:29	47.76266491	-127.75863545	2660.597	EVT	3.210	30.000	valve open
2002/09/12	11:17:57	47.76267642	-127.75860004	2660.611	EVT	3.130	30.000	now opening the main valves
2002/09/12	11:17:57	47.76267642	-127.75860004	2660.611	EVT	3.130	30.000	now opening the main valves
2002/09/12	11:18:13	47.76268204	-127.75859639	2660.597	EVT	3.120	30.000	looking at flow meter before opening either valve
2002/09/12	11:18:19	47.76268381	-127.75859608	2660.516	EVT	3.110	30.000	reads at zero
2002/09/12	11:19:47	47.76267602	-127.75873640	2660.550	EVT	3.140	30.000	valve open
2002/09/12	11:20:03	47.76267890	-127.75877178	2660.665	EVT	3.110	30.000	right side valve is barrel 2-b
2002/09/12	11:20:29	47.76268661	-127.75880006	2660.469	EVT	3.140	30.000	opening left side valve - barrel 2-a
2002/09/12	11:21:12	47.76266713	-127.75882653	2660.719	EVT	3.060	30.000	oops... i mean we are turning on pump
2002/09/12	11:21:20	47.76266251	-127.75883428	2660.644	EVT	3.060	30.000	left side is not open... barrel 2-a is not open
2002/09/12	11:21:40	47.76267470	-127.75886221	2660.550	EVT	3.050	30.000	barrel 2-b open and turning pump on
2002/09/12	11:22:45	47.76270574	-127.75895636	2660.685	EVT	3.020	30.000	trying to turn pump on again
2002/09/12	11:22:58	47.76270721	-127.75896108	2660.590	EVT	3.020	30.000	having trouble getting pump on
2002/09/12	11:24:22	47.76276719	-127.75906248	2660.570	EVT	3.000	30.000	we are pondering how to get the pump on
2002/09/12	11:24:42	47.76277597	-127.75907204	2660.644	EVT	2.860	30.000	the line that goes to the back of the switch is the emergency-pump-turning-on-line line
2002/09/12	11:24:51	47.76278610	-127.75905888	2660.604	EVT	2.860	30.000	so we might use that... going to think about it first
2002/09/12	11:27:53	47.76295858	-127.75899903	2660.550	EVT	2.980	30.000	we'll go for the emergency-pump-turning-on-line
2002/09/12	11:28:00	47.76296643	-127.75902381	2660.617	EVT	2.980	30.000	that's the EPOL
2002/09/12	11:29:34	47.76301834	-127.75906133	2660.705	EVT	2.860	30.000	can't quite reach... we'll have to move in a little closer
2002/09/12	11:31:13	47.76303215	-127.75908703	2660.732	EVT	8.840	30.000	sub re-positioned
2002/09/12	11:31:38	47.76304355	-127.75912980	2660.644	EVT	8.840	30.000	reaching out again
2002/09/12	11:33:28	47.76300071	-127.75917130	2660.502	EVT	8.850	30.000	got the line... pulling
2002/09/12	11:34:12	47.76298843	-127.75915178	2660.617	EVT	8.730	30.000	seems to be stuck still... pulling on the line
2002/09/12	11:35:58	47.76291692	-127.75905341	2660.597	EVT	8.760	30.000	going to give it another yank
2002/09/12	11:36:18	47.76291516	-127.75904109	2660.597	EVT	8.320	30.000	moved entire elevator that time... a little too much
2002/09/12	11:36:38	47.76288829	-127.75902065	2660.658	EVT	8.330	30.000	we'll wake up Tor and see what he thinks
2002/09/12	11:38:11	47.76286808	-127.75892813	2660.631	EVT	8.350	30.000	tapping elevator a couple more times while we wait
2002/09/12	11:41:08	47.76277812	-127.75871884	2660.597	EVT	8.580	30.000	checking the burn wire - not attached
2002/09/12	11:43:38	47.76266540	-127.75865371	2660.739	EVT	8.650	30.000	fooling with the lever again
2002/09/12	11:48:09	47.76265723	-127.75869895	2660.597	EVT	8.700	30.000	going to really pound on the lever
2002/09/12	11:48:34	47.76265510	-127.75871106	2660.570	EVT	8.750	30.000	Tor's suggestion is to go ahead and pound on the lever
2002/09/12	11:48:42	47.76265736	-127.75871138	2660.732	EVT	8.730	30.000	that worked... we have flow
2002/09/12	11:48:52	47.76266253	-127.75871110	2660.604	EVT	8.710	30.000	looks like the piston was a bit sticky
2002/09/12	11:49:21	47.76268407	-127.75869714	2660.712	EVT	8.710	30.000	left valve is slightly open it looks like... Tor says not to worry
2002/09/12	11:49:48	47.76268372	-127.75871151	2660.665	EVT	8.690	30.000	flow coming out of exhaust
2002/09/12	11:52:07	47.76267717	-127.75882902	2660.624	EVT	8.710	30.000	we'll read the flow meter every ten minutes

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	11:52:28	47.76267664	-127.75885375	2660.624	EVT	8.720	30.000	right now it is at 0.5 gpm
2002/09/12	11:59:21	47.76255216	-127.75920916	2660.732	EVT	8.770	30.000	changing tapes
2002/09/12	11:59:26	47.76254590	-127.75921142	2660.611	EVT	8.770	30.000	all tapes changed
2002/09/12	12:00:50	47.76245374	-127.75922907	2660.671	EVT	8.780	30.000	flow still 0.5 gpm
2002/09/12	12:05:37	47.76193344	-127.75900928	2660.678	EVT	8.810	30.000	flow is still constant at 0.5 gpm... very slight fluctuations
2002/09/12	12:15:55	47.76061680	-127.75834975	2660.712	EVT	8.900	30.000	The right hand barrel is named barrel B and is still filling at 0.5gpm
2002/09/12	12:35:59	47.75726940	-127.75595741	2660.712	EVT	8.980	30.000	Flow is still holding at 0.5gpm
2002/09/12	12:43:10	47.75604249	-127.75501496	2660.739	EVT	9.000	30.000	flow is holding at 0.4 gpm
2002/09/12	12:50:57	47.75504256	-127.75439253	2660.665	EVT	9.010	30.000	flow has reduced to 0.3 gpm, still bouncing a bit.
2002/09/12	12:59:02	47.75491551	-127.75474090	2660.719	EVT	8.960	30.000	flow piston has dropped to the bottom of the scale and is bouncing very little.
2002/09/12	12:59:34	47.75493199	-127.75475883	2660.671	EVT	9.020	30.000	decision was made to stop B and Start A.
2002/09/12	12:59:56	47.75493275	-127.75475449	2660.678	EVT	9.010	30.000	Total elapsed time of 1 hour 10 minutes on Barrel B
2002/09/12	13:02:20	47.75495449	-127.75483262	2660.678	EVT	8.940	30.000	flow meter indicates 0.8gpm for barrel A
2002/09/12	13:10:58	47.75522657	-127.75566710	2660.651	EVT	8.910	30.000	flow holding at 0.8gpm
2002/09/12	13:22:18	47.75516929	-127.75669965	2660.665	EVT	8.880	30.000	flow down to 0.75gpm
2002/09/12	13:23:18	47.75513674	-127.75679156	2660.509	EVT	8.870	30.000	flow down to 0.6 and holding steady
2002/09/12	13:30:35	47.75494359	-127.75752630	2660.651	EVT	8.850	30.000	flow has reduced slightly to 0.7gpm
2002/09/12	13:39:23	47.75502813	-127.75876297	2660.496	EVT	8.840	30.000	flow is now down to 0.4gpm
2002/09/12	13:45:14	47.75511454	-127.75957198	2660.556	EVT	8.840	30.000	flow is holding at 0.4 still
2002/09/12	13:47:55	47.75530458	-127.76005343	2660.455	EVT	8.830	30.000	flow increased to 0.6gpm ???
2002/09/12	13:52:18	47.75568137	-127.76092032	2660.563	EVT	8.810	30.000	tapes changed
2002/09/12	13:52:41	47.75570663	-127.76099003	2660.475	EVT	8.810	30.000	flow is back up to 0.7gpm. Is one back broken?
2002/09/12	14:00:37	47.75623280	-127.76233754	2660.401	EVT	8.810	30.000	flow is still between 0.7-0.8. guess that bag a burst.
2002/09/12	14:09:11	47.75652837	-127.76351139	2660.394	EVT	8.780	30.000	shutting off barrel A. Total run time of 1 hour 10 minutes
2002/09/12	14:11:38	47.75662397	-127.76350452	2660.374	EVT	8.740	30.000	turned off pump first, then the valve for barrel A
2002/09/12	14:13:07	47.75662855	-127.76353455	2660.374	EVT	8.640	30.000	intake valve at connector shut off
2002/09/12	14:14:31	47.75664311	-127.76353827	2659.874	ASNAP	8.430	0.870	
2002/09/12	14:14:57	47.75663264	-127.76353866	2659.961	EVT	8.290	0.810	headed to well head to retrieve the sample tubing and hook it onto the elevator
2002/09/12	14:16:31	47.75662663	-127.76352126	2656.493	ASNAP	8.710	4.250	
2002/09/12	14:18:31	47.75667214	-127.76348072	2656.215	ASNAP	326.610	4.150	
2002/09/12	14:20:31	47.75671099	-127.76354226	2656.290	ASNAP	328.120	4.220	
2002/09/12	14:22:31	47.75671451	-127.76354461	2656.871	ASNAP	328.730	3.640	
2002/09/12	14:24:31	47.75671349	-127.76354632	2656.837	ASNAP	328.290	3.810	
2002/09/12	14:24:40	47.75671335	-127.76354606	2656.871	EVT	328.600	3.680	elevator tube removed. Lang sampler tube did not appear to move
2002/09/12	14:26:31	47.75669307	-127.76352135	2656.898	ASNAP	328.020	3.720	

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/12	14:28:31	47.75668704	-127.76348738	2656.817	ASNAP	283.650 3.750	
2002/09/12	14:30:31	47.75668260	-127.76346095	2656.777	ASNAP	282.750 3.670	
2002/09/12	14:32:31	47.75666606	-127.76345977	2656.499	ASNAP	255.940 3.920	
2002/09/12	14:33:37	47.75666022	-127.76349873	2656.770	EVT	267.930 3.740	teflon tube was still attached to original elevator with a rubber band.
2002/09/12	14:33:59	47.75665848	-127.76350321	2656.973	EVT	272.260 3.560	Jim pulled hard on the tube and broke the rubberband.
2002/09/12	14:34:31	47.75665823	-127.76350311	2656.628	ASNAP	271.230 3.780	
2002/09/12	14:35:07	47.75665830	-127.76350310	2657.277	EVT	271.520 3.290	hooked the sample tubew onto the float cage on the elevator.
2002/09/12	14:36:31	47.75665921	-127.76350328	2658.812	ASNAP	271.550 1.740	
2002/09/12	14:38:50	47.75667239	-127.76355260	2660.151	EVT	276.840 30.000	removed Janet's butterfly net from corner of elevator for transit to Baby Bare.
2002/09/12	14:42:07	47.75662954	-127.76374496	2660.205	EVT	275.780 30.000	release in approximately 5 mins.
2002/09/12	14:42:46	47.75666577	-127.76361304	2660.185	EVT	275.890 30.000	both elevators with ctenophore
2002/09/12	14:44:26	47.75661158	-127.76358036	2655.992	EVT	283.530 4.450	going to launch barrel sampler #1
2002/09/12	14:44:32	47.75659884	-127.76358393	2656.405	ASNAP	285.690 4.090	
2002/09/12	14:46:32	47.75660005	-127.76359945	2655.587	ASNAP	308.730 4.820	
2002/09/12	14:48:32	47.75660029	-127.76359929	2655.492	ASNAP	308.800 4.890	
2002/09/12	14:50:32	47.75660022	-127.76359905	2655.559	ASNAP	308.920 4.660	
2002/09/12	14:52:32	47.75660032	-127.76359925	2655.708	ASNAP	309.260 4.720	
2002/09/12	14:54:32	47.75660027	-127.76359903	2655.465	ASNAP	308.860 4.960	
2002/09/12	14:56:27	47.75660007	-127.76359920	2655.593	EVT	308.820 4.810	The acoustic release on the elevator is not releasing properly.
2002/09/12	14:56:32	47.75660014	-127.76359926	2655.607	ASNAP	308.830 4.820	
2002/09/12	14:57:22	47.75660025	-127.76359914	2655.478	EVT	308.770 4.850	We have also moved the ship about 5-10m to get ship out of the way of the elevator.
2002/09/12	14:58:30	47.75660027	-127.76359924	2655.526	EVT	308.870 4.900	The mechanism of the elevator has released, but it hasn't moved.
2002/09/12	14:58:32	47.75660025	-127.76359906	2655.458	ASNAP	308.810 4.920	
2002/09/12	15:00:32	47.75660867	-127.76365564	2656.330	ASNAP	329.810 3.980	
2002/09/12	15:00:46	47.75660851	-127.76365566	2656.148	EVT	329.960 4.120	blank-text
2002/09/12	15:01:25	47.75661189	-127.76365844	2656.608	EVT	329.780 3.810	pole has released, the elevator needs to be nudged
2002/09/12	15:02:32	47.75663123	-127.76367208	2658.285	ASNAP	334.720 2.010	
2002/09/12	15:03:09	47.75663441	-127.76367459	2658.285	EVT	334.540 2.060	still two weights on elevator, supposed to be removed.
2002/09/12	15:05:05	47.75657325	-127.76365559	2660.002	EVT	343.700 30.000	removing weights
2002/09/12	15:05:34	47.75655735	-127.76365135	2660.076	EVT	344.190 30.000	the nudge
2002/09/12	15:05:53	47.75655731	-127.76365152	2660.097	EVT	343.930 30.000	we have lift-off of elevator
2002/09/12	15:07:39	47.75657317	-127.76370180	2656.371	EVT	39.740 3.850	moving to the column at 1026b
2002/09/12	15:08:32	47.75660622	-127.76366847	2656.033	ASNAP	42.010 4.290	

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	15:08:52	47.75660435	-127.76367265	2656.141	EVT	41.270	4.140	We will take water samples here.
2002/09/12	15:10:32	47.75662155	-127.76364948	2656.188	ASnap	41.400	4.260	
2002/09/12	15:10:53	47.75662445	-127.76364600	2656.344	EVT	41.490	4.160	Lang probe at 1026b
2002/09/12	15:12:00	47.75662462	-127.76364440	2656.594	EVT	40.340	3.550	positioned over 1026b
2002/09/12	15:12:32	47.75662457	-127.76364436	2656.777	ASnap	40.280	3.580	
2002/09/12	15:14:04	47.75662440	-127.76364473	2656.716	EVT	40.340	3.640	The Lang sampler probe apparent ly has been moved
	since 8-12							
2002/09/12	15:14:32	47.75662435	-127.76364499	2656.682	ASnap	40.160	3.630	
2002/09/12	15:14:49	47.75662443	-127.76364513	2656.641	EVT	40.130	3.630	continuation-moved since 8-12 hours ago
2002/09/12	15:15:21	47.75662440	-127.76364505	2656.729	EVT	40.160	3.700	Butterfield sampler probe in cone
2002/09/12	15:16:03	47.75662435	-127.76364524	2656.601	EVT	40.230	3.650	4.5 degrees
2002/09/12	15:16:22	47.75662431	-127.76364535	2656.614	EVT	40.250	3.640	DVD recording
2002/09/12	15:16:32	47.75662424	-127.76364542	2656.641	ASnap	40.230	3.660	
2002/09/12	15:16:32	47.75662425	-127.76364545	2656.641	EVT	40.240	3.660	50 degrees
2002/09/12	15:16:48	47.75662426	-127.76364541	2656.594	EVT	40.210	3.650	57 degrees
2002/09/12	15:17:01	47.75662418	-127.76364545	2656.635	EVT	40.050	3.690	59
2002/09/12	15:17:21	47.75662408	-127.76364546	2656.567	EVT	40.030	3.630	60.7
2002/09/12	15:17:43	47.75662398	-127.76364541	2656.587	EVT	40.070	3.700	flush pump is on low
2002/09/12	15:17:57	47.75662398	-127.76364535	2656.526	EVT	40.030	3.620	61.4 degrees
2002/09/12	15:18:32	47.75662390	-127.76364535	2656.641	ASnap	40.060	3.670	
2002/09/12	15:19:25	47.75662376	-127.76364544	2656.594	EVT	40.140	3.670	61.7 degrees
2002/09/12	15:20:32	47.75662363	-127.76364560	2656.621	ASnap	40.080	3.640	
2002/09/12	15:20:52	47.75662339	-127.76364659	2656.601	EVT	40.030	3.670	better view of cone on pilot camera
2002/09/12	15:21:36	47.75661433	-127.76364672	2654.356	EVT	40.650	5.810	Butterfield probe out of cone, Lang probe jossled
2002/09/12	15:22:32	47.75662387	-127.76364431	2656.067	ASnap	39.760	4.170	
2002/09/12	15:23:12	47.75662250	-127.76364437	2656.479	EVT	34.370	3.740	repositioning Butterfield sampler intake
2002/09/12	15:24:32	47.75662347	-127.76364449	2656.479	ASnap	44.430	3.940	
2002/09/12	15:26:32	47.75662248	-127.76364366	2656.641	ASnap	43.990	3.410	
2002/09/12	15:27:02	47.75662252	-127.76364368	2656.777	EVT	43.860	3.390	better view of cone
2002/09/12	15:27:39	47.75662256	-127.76364395	2656.668	EVT	43.270	3.430	sampler in cone 33 degrees
2002/09/12	15:28:04	47.75662259	-127.76364562	2656.695	EVT	43.530	3.550	further down in cone, 50 degrees
2002/09/12	15:28:13	47.75662256	-127.76364564	2656.716	EVT	43.440	3.530	56 degrees
2002/09/12	15:28:32	47.75661633	-127.76365422	2656.398	ASnap	44.100	4.040	
2002/09/12	15:28:57	47.75662354	-127.76364367	2656.398	EVT	33.170	3.510	pulled out sampler.
2002/09/12	15:30:32	47.75662180	-127.76364408	2656.689	ASnap	24.780	3.170	
2002/09/12	15:30:36	47.75662180	-127.76364405	2656.783	EVT	24.770	3.160	Jason was caught on a ledge and the sampler was
	pulled out of the cone.							
2002/09/12	15:31:17	47.75662160	-127.76364461	2656.770	EVT	24.800	3.210	back in cone 50 degrees
2002/09/12	15:31:23	47.75662157	-127.76364465	2656.716	EVT	24.810	3.210	55
2002/09/12	15:31:58	47.75662153	-127.76364476	2656.750	EVT	24.820	3.210	60.8 degrees
2002/09/12	15:32:18	47.75662143	-127.76364479	2656.675	EVT	24.830	3.220	61.5 degrees

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/12	15:32:32	47.75662135	-127.76364479	2656.770	ASNAP	24.840	3.210
2002/09/12	15:33:06	47.75662133	-127.76364492	2656.662	EVT	24.870	3.210
2002/09/12	15:33:55	47.75662127	-127.76364507	2656.756	EVT	24.880	3.210
2002/09/12	15:34:32	47.75662129	-127.76364504	2656.750	ASNAP	24.870	3.210
2002/09/12	15:34:35	47.75662129	-127.76364503	2656.770	EVT	24.870	3.220
2002/09/12	15:35:00	47.75662127	-127.76364502	2656.810	EVT	24.840	3.210
2002/09/12	15:36:02	47.75662140	-127.76364509	2656.729	EVT	24.830	3.200
2002/09/12	15:36:32	47.75662141	-127.76364526	2656.729	ASNAP	24.840	3.210
2002/09/12	15:37:08	47.75662142	-127.76364550	2656.682	EVT	24.840	3.220
2002/09/12	15:37:49	47.75662146	-127.76364556	2656.655	EVT	24.850	3.200
2002/09/12	15:38:32	47.75662142	-127.76364564	2656.601	ASNAP	24.900	3.200
2002/09/12	15:40:32	47.75662146	-127.76364534	2656.608	ASNAP	24.840	3.220
2002/09/12	15:41:44	47.75662148	-127.76364507	2656.716	EVT	24.810	3.200
2002/09/12	15:42:11	47.75662137	-127.76364508	2656.601	EVT	24.840	3.200
2002/09/12	15:42:32	47.75662126	-127.76364506	2656.587	ASNAP	24.850	3.210
2002/09/12	15:44:32	47.75662144	-127.76364543	2656.729	ASNAP	24.670	3.170
2002/09/12	15:45:08	47.75662160	-127.76364519	2656.662	EVT	24.830	3.110
2002/09/12	15:45:37	47.75662156	-127.76364505	2656.831	EVT	24.590	3.160
2002/09/12	15:46:11	47.75662216	-127.76364491	2656.743	EVT	24.670	3.190
2002/09/12	15:46:32	47.75662213	-127.76364489	2656.709	ASNAP	24.660	3.160
2002/09/12	15:48:32	47.75662097	-127.76364430	2656.567	ASNAP	22.400	3.330
2002/09/12	15:49:51	47.75661969	-127.76364455	2656.499	EVT	31.130	3.470
2002/09/12	15:50:09	47.75661812	-127.76364647	2656.466	EVT	34.260	3.590
2002/09/12	15:50:28	47.75661717	-127.76365609	2656.540	EVT	34.500	3.660
2002/09/12	15:50:32	47.75662009	-127.76366199	2656.581	ASNAP	34.550	3.780
2002/09/12	15:52:32	47.75666598	-127.76381937	2647.364	ASNAP	191.840	12.680
2002/09/12	15:54:32	47.75639625	-127.76388899	2647.398	ASNAP	192.720	12.730
2002/09/12	15:56:32	47.75625345	-127.76357623	2647.066	ASNAP	187.860	12.930
2002/09/12	15:58:32	47.75625159	-127.76356918	2647.202	ASNAP	191.050	12.840
2002/09/12	16:00:32	47.75616498	-127.76359403	2647.256	ASNAP	191.420	12.770
2002/09/12	16:02:32	47.75602706	-127.76363451	2647.208	ASNAP	191.440	12.680
2002/09/12	16:04:32	47.75576776	-127.76367762	2647.263	ASNAP	191.020	12.470
2002/09/12	16:06:32	47.75551109	-127.76356322	2647.222	ASNAP	191.910	12.440
2002/09/12	16:08:32	47.75539436	-127.76326697	2647.398	ASNAP	140.280	12.380
2002/09/12	16:10:32	47.75538579	-127.76315863	2647.195	ASNAP	139.640	12.590
2002/09/12	16:12:32	47.75512185	-127.76292745	2647.276	ASNAP	140.220	12.330
2002/09/12	16:14:32	47.75493130	-127.76268655	2647.026	ASNAP	138.720	12.650
2002/09/12	16:16:32	47.75492864	-127.76239544	2647.303	ASNAP	31.940	12.480
2002/09/12	16:18:32	47.75482865	-127.76226647	2647.499	ASNAP	31.570	12.340
2002/09/12	16:18:34	47.75482688	-127.76226122	2647.432	EVT	31.430	12.320
2002/09/12	16:20:33	47.75478324	-127.76204874	2647.384	ASNAP	341.530	12.400

Event log: LEXEN 2002

Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/12	16:22:33	47.75459648	-127.76161392	2647.229	ASNAP	130.590	12.540
2002/09/12	16:24:33	47.75445742	-127.76135223	2647.371	ASNAP	131.450	12.510
2002/09/12	16:26:33	47.75440605	-127.76111597	2647.202	ASNAP	131.260	12.620
2002/09/12	16:28:33	47.75431158	-127.76085540	2646.958	ASNAP	131.160	12.820
2002/09/12	16:29:26	47.75427311	-127.76073767	2647.344	EVT	131.020	12.400
2002/09/12	16:30:33	47.75420078	-127.76057697	2648.175	ASNAP	133.920	11.790
2002/09/12	16:32:33	47.75406867	-127.76028314	2647.350	ASNAP	315.640	12.740
2002/09/12	16:34:33	47.75409163	-127.76028158	2647.283	ASNAP	316.620	12.630
2002/09/12	16:36:33	47.75415561	-127.76030729	2647.134	ASNAP	317.200	12.680
2002/09/12	16:38:33	47.75425043	-127.76037188	2647.276	ASNAP	317.070	12.580
2002/09/12	16:40:33	47.75427096	-127.76033550	2647.465	ASNAP	317.570	12.340
2002/09/12	16:42:33	47.75443149	-127.76056738	2647.547	ASNAP	317.650	12.350
2002/09/12	16:44:33	47.75447984	-127.76063597	2647.161	ASNAP	316.880	12.640
2002/09/12	16:46:33	47.75460257	-127.76080407	2647.344	ASNAP	316.710	12.500
2002/09/12	16:48:33	47.75472482	-127.76097341	2647.303	ASNAP	316.760	12.430
2002/09/12	16:50:33	47.75482286	-127.76110766	2647.296	ASNAP	316.730	12.480
2002/09/12	16:50:44	47.75484147	-127.76113402	2647.283	EVT	316.830	12.450
2002/09/12	16:52:33	47.75489078	-127.76120410	2647.378	ASNAP	317.030	12.460
2002/09/12	16:54:33	47.75509875	-127.76148963	2647.195	ASNAP	316.740	12.410
2002/09/12	16:56:33	47.75522547	-127.76166505	2647.357	ASNAP	316.900	12.400
2002/09/12	16:58:33	47.75537122	-127.76186676	2647.391	ASNAP	317.130	12.330
2002/09/12	17:00:33	47.75551135	-127.76206108	2647.303	ASNAP	316.830	12.200
2002/09/12	17:02:33	47.75561280	-127.76219035	2647.249	ASNAP	316.550	12.290
2002/09/12	17:04:33	47.75578914	-127.76243709	2647.296	ASNAP	316.540	12.100
2002/09/12	17:06:33	47.75591190	-127.76264758	2647.499	ASNAP	316.540	11.960
2002/09/12	17:08:33	47.75609172	-127.76288976	2647.364	ASNAP	316.890	12.190
2002/09/12	17:10:33	47.75617007	-127.76312916	2647.317	ASNAP	316.500	12.090
2002/09/12	17:12:33	47.75626615	-127.76326366	2652.293	ASNAP	316.860	7.150
2002/09/12	17:14:33	47.75642704	-127.76348675	2654.092	ASNAP	317.160	5.490
2002/09/12	17:14:36	47.75643203	-127.76349316	2654.694	EVT	317.330	4.910
2002/09/12	17:16:33	47.75650047	-127.76363445	2656.831	ASNAP	275.470	2.810
2002/09/12	17:18:33	47.75649746	-127.76365341	2657.189	ASNAP	280.130	2.470
2002/09/12	17:18:52	47.75649719	-127.76365339	2657.297	EVT	280.080	2.400
2002/09/12	17:19:30	47.75649691	-127.76365299	2657.460	EVT	280.030	2.180
elevator; release wire no longer there.							
2002/09/12	17:20:33	47.75649644	-127.76365312	2657.717	ASNAP	285.990	1.960
2002/09/12	17:22:33	47.75651190	-127.76371560	2657.473	ASNAP	89.520	2.180

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	17:33:06	47.75694608	-127.76286601	2659.346	EVT	112.170	30.000	we are going to use the left arm (!) to free it.
2002/09/12	17:34:03	47.75698525	-127.76273740	2659.387	EVT	112.170	30.000	blank-text
2002/09/12	17:34:20	47.75699822	-127.76269387	2659.481	EVT	112.150	30.000	blank-text
2002/09/12	17:34:26	47.75700471	-127.76267337	2659.475	EVT	112.160	30.000	blank-text
2002/09/12	17:34:34	47.75701249	-127.76264943	2659.333	EVT	112.160	30.000	blank-text
2002/09/12	17:34:53	47.75703034	-127.76264609	2659.529	EVT	112.170	30.000	hose is off the right arm
2002/09/12	17:35:03	47.75702841	-127.76265038	2659.481	EVT	112.170	30.000	blank-text
2002/09/12	17:35:10	47.75702839	-127.76264954	2659.265	EVT	112.200	30.000	now using right arm to grasp hose before releasing it
	with left							
2002/09/12	17:35:55	47.75702158	-127.76266310	2659.407	EVT	112.040	30.000	blank-text
2002/09/12	17:36:41	47.75702013	-127.76266320	2659.454	EVT	112.090	30.000	blank-text
2002/09/12	17:38:30	47.75706920	-127.76262920	2659.272	EVT	112.060	30.000	blank-text
2002/09/12	17:38:40	47.75707831	-127.76262497	2659.346	EVT	112.070	30.000	blank-text
2002/09/12	17:38:50	47.75708896	-127.76261794	2659.319	EVT	112.060	30.000	blank-text
2002/09/12	17:40:03	47.75706037	-127.76256866	2659.360	EVT	111.940	30.000	we have delt with the hose and the release poly pro is
	now in hand							
2002/09/12	17:42:42	47.75703985	-127.76251942	2659.306	EVT	100.670	30.000	pull pin pulled. elevator not going up
2002/09/12	17:42:52	47.75703841	-127.76252030	2659.414	EVT	100.660	30.000	up, off, and away
2002/09/12	17:42:56	47.75703824	-127.76252017	2659.326	EVT	100.660	30.000	blank-text
2002/09/12	17:43:05	47.75703685	-127.76251996	2659.197	EVT	100.640	30.000	elevator released
2002/09/12	17:43:11	47.75703377	-127.76251790	2659.326	EVT	100.650	30.000	blank-text
2002/09/12	17:46:33	47.75696920	-127.76238829	2656.256	ASNAP	90.160	3.300	
2002/09/12	17:48:33	47.75696907	-127.76238846	2656.364	ASNAP	90.270	3.300	
2002/09/12	17:50:33	47.75700451	-127.76238966	2656.256	ASNAP	357.150	3.350	
2002/09/12	17:51:08	47.75701673	-127.76240654	2656.087	EVT	32.010	3.740	blank-text
2002/09/12	17:52:33	47.75702379	-127.76239904	2656.094	ASNAP	30.980	3.320	
2002/09/12	17:53:50	47.75702374	-127.76239897	2656.148	EVT	30.880	3.400	just with basket over funnel, butterfield sampler
	reading 11 degrees							
2002/09/12	17:54:33	47.75702047	-127.76239930	2656.249	ASNAP	26.320	3.360	
2002/09/12	17:56:33	47.75702003	-127.76239665	2656.013	ASNAP	18.820	3.540	
2002/09/12	17:58:33	47.75702112	-127.76239436	2656.229	ASNAP	23.240	3.190	
2002/09/12	17:59:23	47.75702062	-127.76239651	2656.256	EVT	23.040	3.260	Butterfield intake inserted into funnel. temp rising
2002/09/12	18:00:34	47.75702042	-127.76239658	2656.303	ASNAP	22.780	3.260	
2002/09/12	18:01:26	47.75702039	-127.76239673	2656.249	EVT	22.870	3.240	temp+61.9
2002/09/12	18:01:40	47.75702036	-127.76239679	2656.317	EVT	22.920	3.250	starting beast sample piston 5; temperature 62
	degrees							
2002/09/12	18:02:34	47.75702039	-127.76239694	2656.175	ASNAP	23.010	3.240	
2002/09/12	18:02:56	47.75702037	-127.76239699	2656.195	EVT	22.870	3.240	sample pump has not come on; we are not yet
	sampling							
2002/09/12	18:04:34	47.75702045	-127.76239717	2656.188	ASNAP	22.720	3.250	
2002/09/12	18:06:34	47.75702059	-127.76239739	2656.121	ASNAP	22.900	3.260	

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	18:07:06	47.75702056	-127.76239739	2656.229	EVT	23.000	3.240	Started Piston 5, temp=62
2002/09/12	18:08:34	47.75702063	-127.76239741	2656.188	ASNAP	22.900	3.250	
2002/09/12	18:10:34	47.75702032	-127.76239746	2656.168	ASNAP	22.790	3.240	
2002/09/12	18:12:34	47.75701691	-127.76238761	2655.958	ASNAP	346.740	3.400	
2002/09/12	18:13:20	47.75701809	-127.76238705	2656.222	EVT	347.480	3.270	butterfield sample pump having a problem going to
								piston 5. Stopping pumping.
2002/09/12	18:13:44	47.75701804	-127.76238697	2656.141	EVT	347.370	3.330	Running out of time. Removing Butterfield intake
								from funnel.
2002/09/12	18:14:23	47.75701801	-127.76238698	2656.107	EVT	347.570	3.370	Temperature for piston 5 = 62.3; volume unknow
2002/09/12	18:14:34	47.75701804	-127.76238691	2656.033	ASNAP	347.600	3.360	
2002/09/12	18:16:34	47.75701698	-127.76238866	2656.067	ASNAP	351.340	3.440	
2002/09/12	18:16:42	47.75701569	-127.76238939	2655.573	EVT	34.800	4.130	repositioned lang sampler intake after it was knocked
								around by butterfield sampler intake
2002/09/12	18:17:29	47.75702446	-127.76239703	2656.202	EVT	70.770	3.640	John is doing some DVD recording
2002/09/12	18:18:34	47.75702426	-127.76239745	2656.107	ASNAP	70.480	3.610	
2002/09/12	18:19:36	47.75702401	-127.76239780	2656.155	EVT	69.250	3.550	re positioned lang sampler intake again after hose got
								snagged on vehicle when we tried to move away
2002/09/12	18:20:34	47.75693857	-127.76251160	2647.175	ASNAP	48.120	12.320	
2002/09/12	18:22:34	47.75689306	-127.76240978	2644.531	ASNAP	151.810	14.850	
2002/09/12	18:22:59	47.75689331	-127.76240952	2644.652	EVT	151.700	14.710	we are moving jason and the ship to chase after the
								elevator
2002/09/12	18:24:34	47.75689318	-127.76240968	2644.963	ASNAP	151.860	14.540	
2002/09/12	18:26:34	47.75671155	-127.76224815	2644.909	ASNAP	149.130	14.670	
2002/09/12	18:28:34	47.75666377	-127.76207123	2644.558	ASNAP	148.820	14.820	
2002/09/12	18:30:34	47.75660698	-127.76195691	2644.659	ASNAP	149.090	14.620	
2002/09/12	18:32:34	47.75641627	-127.76177915	2644.720	ASNAP	149.230	15.250	
2002/09/12	18:34:34	47.75608219	-127.76149112	2645.572	ASNAP	150.920	13.840	
2002/09/12	18:36:34	47.75593846	-127.76136532	2644.463	ASNAP	151.950	15.190	
2002/09/12	18:38:34	47.75583795	-127.76113148	2644.341	ASNAP	152.220	15.510	
2002/09/12	18:40:34	47.75569533	-127.76096587	2645.450	ASNAP	154.100	14.310	
2002/09/12	18:42:34	47.75556821	-127.76087824	2644.382	ASNAP	151.420	15.140	
2002/09/12	18:44:34	47.75535416	-127.76049689	2644.084	ASNAP	151.940	15.340	
2002/09/12	18:46:34	47.75528426	-127.76042352	2644.382	ASNAP	151.160	15.270	
2002/09/12	18:48:34	47.75503182	-127.76008237	2644.544	ASNAP	151.480	15.160	
2002/09/12	18:50:34	47.75488767	-127.75986208	2644.172	ASNAP	151.260	15.540	
2002/09/12	18:52:34	47.75487111	-127.75983751	2644.341	ASNAP	151.400	15.320	
2002/09/12	18:54:34	47.75482176	-127.75977523	2644.409	ASNAP	151.080	15.270	
2002/09/12	18:55:23	47.75482233	-127.75977560	2644.206	EVT	151.190	15.500	elevator spotted on the surface
2002/09/12	18:56:34	47.75482607	-127.75976535	2644.517	ASNAP	151.190	15.130	
2002/09/12	18:58:34	47.75486942	-127.75981580	2644.132	ASNAP	151.260	15.600	
2002/09/12	19:00:34	47.75496797	-127.75982608	2644.341	ASNAP	151.300	15.440	

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/12	19:02:34	47.75504393	-127.75973792	2644.314	ASNAP	150.730 15.530	
2002/09/12	19:04:34	47.75518657	-127.75970216	2644.544	ASNAP	151.020 15.130	
2002/09/12	19:06:34	47.75529761	-127.75966694	2644.105	ASNAP	151.830 15.620	
2002/09/12	19:08:34	47.75544024	-127.75959983	2644.247	ASNAP	281.990 15.420	
2002/09/12	19:10:09	47.75554984	-127.75953068	2644.341	EVT	282.220 15.340	the elevator is on board
2002/09/12	19:10:34	47.75554740	-127.75953161	2644.341	ASNAP	282.460 15.360	
2002/09/12	19:12:34	47.75558043	-127.75922759	2644.240	ASNAP	281.960 15.540	
2002/09/12	19:14:34	47.75567816	-127.75924604	2644.294	ASNAP	282.850 15.380	
2002/09/12	19:16:34	47.75570161	-127.75894102	2644.990	ASNAP	280.960 15.100	
2002/09/12	19:18:34	47.75578826	-127.75890472	2644.564	ASNAP	281.020 15.110	
2002/09/12	19:20:34	47.75587081	-127.75899178	2644.240	ASNAP	282.600 15.590	
2002/09/12	19:22:34	47.75590877	-127.75899320	2644.335	ASNAP	281.790 15.410	
2002/09/12	19:24:34	47.75595029	-127.75909871	2644.558	ASNAP	282.010 15.550	
2002/09/12	19:26:34	47.75598744	-127.75919251	2644.490	ASNAP	282.560 15.440	
2002/09/12	19:28:34	47.75602797	-127.75937652	2644.307	ASNAP	282.330 15.380	
2002/09/12	19:30:34	47.75607792	-127.75948084	2644.537	ASNAP	282.700 15.560	
2002/09/12	19:32:34	47.76153599	-127.75653375	2644.666	ASNAP	320.240 15.170	
2002/09/12	19:34:34	47.76159020	-127.75656171	2644.443	ASNAP	319.360 15.420	
2002/09/12	19:36:34	47.76162710	-127.75672202	2644.497	ASNAP	319.530 15.440	
2002/09/12	19:38:34	47.76168533	-127.75684567	2644.402	ASNAP	319.580 15.440	
2002/09/12	19:40:34	47.76175771	-127.75705239	2644.253	ASNAP	319.700 15.310	
2002/09/12	19:42:34	47.76179759	-127.75726814	2644.355	ASNAP	308.100 15.300	
2002/09/12	19:44:35	47.76184484	-127.75733099	2644.477	ASNAP	308.190 15.470	
2002/09/12	19:46:35	47.76188378	-127.75750333	2644.497	ASNAP	307.440 15.190	
2002/09/12	19:48:35	47.76199300	-127.75782384	2644.402	ASNAP	307.860 15.200	
2002/09/12	19:50:35	47.76203164	-127.75794194	2644.531	ASNAP	308.060 15.170	
2002/09/12	19:52:35	47.76212914	-127.75812533	2644.375	ASNAP	308.010 15.400	
2002/09/12	19:54:35	47.76215226	-127.75829320	2644.443	ASNAP	308.150 15.370	
2002/09/12	19:56:35	47.76219267	-127.75840014	2656.756	ASNAP	318.380 3.220	
2002/09/12	19:58:35	47.76229116	-127.75853469	2656.452	ASNAP	314.090 3.470	
2002/09/12	19:58:36	47.76229112	-127.75853456	2656.452	EVT	314.080 3.500	blank-text
2002/09/12	19:59:12	47.76232909	-127.75859209	2656.493	EVT	314.100 3.320	if anyone knows what that was, let us know
2002/09/12	20:00:35	47.76237160	-127.75882753	2656.810	ASNAP	265.090 3.200	
2002/09/12	20:01:49	47.76235338	-127.75903289	2656.073	EVT	263.670 4.260	we have arrived
2002/09/12	20:02:35	47.76240668	-127.75908936	2656.222	ASNAP	219.100 3.890	
2002/09/12	20:03:13	47.76239379	-127.75916733	2656.499	EVT	196.330 3.730	1026b
2002/09/12	20:04:34	47.76252533	-127.75941623	2656.405	EVT	154.890 3.720	1026b with Lang sampler in the background
2002/09/12	20:04:35	47.76252524	-127.75941622	2656.371	ASNAP	154.840 3.670	
2002/09/12	20:06:35	47.76250676	-127.75941133	2656.175	ASNAP	154.700 3.990	
2002/09/12	20:06:45	47.76250664	-127.75941098	2656.411	EVT	154.800 3.660	Lang sampler at 1026b

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	20:07:56	47.76250670	-127.75941117	2656.290	EVT	154.830	3.770	we will now connect the Butterfield sampler with the
	cone							
2002/09/12	20:08:19	47.76250660	-127.75941124	2656.452	EVT	154.850	3.710	holding Butterfield sampler connector
2002/09/12	20:08:35	47.76250667	-127.75941144	2656.405	ASNAP	154.850	3.780	
2002/09/12	20:10:35	47.76250057	-127.75941008	2655.938	ASNAP	154.570	4.080	
2002/09/12	20:11:13	47.76249789	-127.75940625	2656.587	EVT	154.210	3.380	bumped into cone lightly - slightly jarred lang
	sampler connector moved an inch or two							
2002/09/12	20:11:38	47.76249767	-127.75940621	2656.709	EVT	153.640	3.300	we are ready to go with the Butterfield sampler
2002/09/12	20:11:59	47.76249772	-127.75940616	2656.675	EVT	153.680	3.320	placing connector to the Butterfield sampler into the
	center of the cone							
2002/09/12	20:12:09	47.76249762	-127.75940616	2656.662	EVT	153.680	3.260	down below camera view
2002/09/12	20:12:35	47.76249762	-127.75940615	2656.770	ASNAP	153.650	3.290	
2002/09/12	20:12:38	47.76249761	-127.75940618	2656.743	EVT	153.650	3.290	temperature 39 and climbing
2002/09/12	20:12:45	47.76249762	-127.75940619	2656.729	EVT	153.650	3.290	temperature rising
2002/09/12	20:12:54	47.76249765	-127.75940627	2656.750	EVT	153.660	3.290	temperature at 55
2002/09/12	20:13:18	47.76249771	-127.75940620	2656.723	EVT	153.690	3.300	temperature appx 135 deg F
2002/09/12	20:13:27	47.76249767	-127.75940627	2656.723	EVT	153.680	3.300	now up to 60 c
2002/09/12	20:14:35	47.76249784	-127.75940622	2656.729	ASNAP	153.710	3.300	
2002/09/12	20:16:35	47.76249769	-127.75940621	2656.682	ASNAP	153.730	3.280	
2002/09/12	20:17:40	47.76249796	-127.75940619	2656.682	EVT	153.700	3.280	Temperature with BUtterfield Sampler is 62
2002/09/12	20:17:53	47.76249793	-127.75940617	2656.689	EVT	153.700	3.290	62.1 degrees now
2002/09/12	20:18:21	47.76249790	-127.75940609	2656.777	EVT	153.690	3.280	Starting sample bottle 14
2002/09/12	20:18:35	47.76249792	-127.75940606	2656.736	ASNAP	153.700	3.290	
2002/09/12	20:20:16	47.76249800	-127.75940580	2656.844	EVT	153.690	3.280	cancel bottle 14
2002/09/12	20:20:35	47.76249803	-127.75940583	2656.736	ASNAP	153.690	3.280	
2002/09/12	20:21:19	47.76249813	-127.75940567	2656.817	EVT	153.690	3.290	starting filter number 6
2002/09/12	20:22:35	47.76249826	-127.75940523	2656.702	ASNAP	153.690	3.280	
2002/09/12	20:24:35	47.76249810	-127.75940478	2656.831	ASNAP	153.660	3.280	
2002/09/12	20:26:35	47.76249823	-127.75940457	2656.770	ASNAP	153.630	3.300	
2002/09/12	20:28:35	47.76249849	-127.75940454	2656.844	ASNAP	153.580	3.300	
2002/09/12	20:30:22	47.76249869	-127.75940417	2656.810	EVT	153.540	3.310	stopping filter number 6
2002/09/12	20:30:35	47.76249978	-127.75940488	2656.777	ASNAP	153.590	3.350	
2002/09/12	20:30:47	47.76249991	-127.75940496	2656.851	EVT	153.020	3.330	max 62.3 avg 62.2 vol 1043 ml
2002/09/12	20:31:33	47.76250238	-127.75941168	2655.607	EVT	153.960	4.720	re-positioning over the cone
2002/09/12	20:32:35	47.76249829	-127.75940465	2656.912	ASNAP	153.830	3.120	
2002/09/12	20:33:03	47.76249841	-127.75940484	2656.939	EVT	153.430	3.250	replacing the Butterfield sampler connector
2002/09/12	20:33:25	47.76249839	-127.75940476	2656.939	EVT	153.410	3.210	recorded temperature on the rise
2002/09/12	20:33:34	47.76249843	-127.75940473	2656.898	EVT	153.430	3.220	38 degrees c
2002/09/12	20:33:42	47.76249841	-127.75940479	2656.993	EVT	153.410	3.210	temperature 45
2002/09/12	20:33:52	47.76249837	-127.75940481	2656.851	EVT	153.420	3.220	temperature 55
2002/09/12	20:34:14	47.76249843	-127.75940486	2656.979	EVT	153.400	3.210	temperature 60

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/12	20:34:35	47.76249852	-127.75940482	2656.966	ASNAP	153.410 3.220	
2002/09/12	20:35:05	47.76249856	-127.75940499	2656.939	EVT	153.380 3.220	temperature 61.8
2002/09/12	20:36:35	47.76249860	-127.75940515	2656.979	ASNAP	153.350 3.210	
2002/09/12	20:37:01	47.76249865	-127.75940522	2656.905	EVT	153.350 3.220	temperature 62.1
2002/09/12	20:37:39	47.76249866	-127.75940560	2657.074	EVT	153.300 3.210	trying to re position the Butterfield sampler connector
2002/09/12	20:38:35	47.76249864	-127.75940542	2656.905	ASNAP	153.280 3.190	
2002/09/12	20:38:47	47.76249862	-127.75940533	2657.094	EVT	153.270 3.210	starting FISH filter number 13
2002/09/12	20:40:18	47.76249847	-127.75940461	2656.973	EVT	153.240 3.210	stopping number 13
2002/09/12	20:40:35	47.76249844	-127.75940458	2656.993	ASNAP	153.260 3.210	
2002/09/12	20:40:39	47.76249844	-127.75940458	2657.088	EVT	153.250 3.190	max 62.2 avg 62.2 vol 203
2002/09/12	20:42:28	47.76249823	-127.75940500	2656.966	EVT	153.240 3.200	starting filter number one
2002/09/12	20:42:33	47.76249824	-127.75940503	2656.966	EVT	153.250 3.200	filter number 1
2002/09/12	20:42:35	47.76249825	-127.75940504	2657.081	ASNAP	153.240 3.200	
2002/09/12	20:44:35	47.76249815	-127.75940539	2657.034	ASNAP	153.220 3.200	
2002/09/12	20:46:35	47.76249792	-127.75940607	2657.142	ASNAP	153.210 3.190	
2002/09/12	20:48:35	47.76249792	-127.75940694	2657.047	ASNAP	153.230 3.200	
2002/09/12	20:50:35	47.76249806	-127.75940801	2657.216	ASNAP	153.230 3.200	
2002/09/12	20:50:39	47.76249807	-127.75940804	2657.121	EVT	153.220 3.210	stopping sample filter number 1
2002/09/12	20:50:57	47.76249813	-127.75940830	2657.013	EVT	153.210 3.200	max 62.2 avg 62.2 vol 1 liter
2002/09/12	20:51:42	47.76249834	-127.75940866	2657.162	EVT	153.210 3.200	starting piston number 22
2002/09/12	20:52:35	47.76249860	-127.75940925	2657.216	ASNAP	153.180 3.200	
2002/09/12	20:54:35	47.76249874	-127.75941019	2657.250	ASNAP	153.210 3.210	
2002/09/12	20:56:35	47.76249865	-127.75940996	2657.162	ASNAP	153.200 3.210	
2002/09/12	20:56:55	47.76249871	-127.75941004	2657.209	EVT	153.210 3.200	temperature is flat lined at 62.2
2002/09/12	20:58:21	47.76249869	-127.75941017	2657.196	EVT	153.200 3.200	stopping sample
2002/09/12	20:58:35	47.76249865	-127.75941018	2657.094	EVT	153.230 3.200	max 62.3 avg 62.2 vol 701
2002/09/12	20:58:35	47.76249865	-127.75941017	2657.135	ASNAP	153.230 3.210	
2002/09/12	20:59:55	47.76249850	-127.75941009	2657.094	EVT	153.200 3.220	starting filter number 9
2002/09/12	21:00:35	47.76249845	-127.75941007	2657.223	ASNAP	153.250 3.210	
2002/09/12	21:02:35	47.76249881	-127.75941083	2657.270	ASNAP	153.290 3.200	
2002/09/12	21:04:35	47.76249892	-127.75941239	2657.189	ASNAP	153.280 3.210	
2002/09/12	21:06:04	47.76249900	-127.75941300	2657.216	EVT	153.270 3.200	stopped filter number 9
2002/09/12	21:06:14	47.76249900	-127.75941302	2657.250	EVT	153.280 3.210	max 62.2 avg 62.2 vol 600
2002/09/12	21:06:35	47.76249899	-127.75941310	2657.189	ASNAP	153.240 3.200	
2002/09/12	21:06:52	47.76249906	-127.75941319	2657.121	EVT	153.280 3.200	starting sample number 14
2002/09/12	21:08:35	47.76249914	-127.75941357	2657.291	ASNAP	153.250 3.200	
2002/09/12	21:10:35	47.76249914	-127.75941414	2657.236	ASNAP	153.210 3.200	
2002/09/12	21:10:49	47.76249915	-127.75941425	2657.284	EVT	153.200 3.200	stopping sample number 14
2002/09/12	21:11:00	47.76249917	-127.75941427	2657.257	EVT	153.190 3.200	max 62.3 avg 62.2 vol 601
2002/09/12	21:12:35	47.76249928	-127.75941451	2657.135	ASNAP	153.260 3.210	
2002/09/12	21:12:36	47.76249930	-127.75941446	2657.236	EVT	153.270 3.220	finished sampling with the Butterfield sampler

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/12	21:13:34	47.76249944	-127.75941422	2657.304	EVT	153.320	3.220	replacing the Butterfield sampler connector
2002/09/12	21:14:02	47.76249945	-127.75941429	2657.263	EVT	153.260	3.230	connector secured
2002/09/12	21:14:21	47.76249951	-127.75941427	2657.203	EVT	153.350	3.260	closing drawer
2002/09/12	21:14:35	47.76249952	-127.75941424	2657.236	ASNAP	153.340	3.250	
2002/09/12	21:15:06	47.76249968	-127.75941460	2657.277	EVT	153.260	3.280	grabbing the Lang sampler connector
2002/09/12	21:15:46	47.76250479	-127.75937207	2656.087	EVT	189.020	4.620	Lang sampler connector removed from the cone at
	1026b							
2002/09/12	21:16:35	47.76250484	-127.75935406	2658.406	ASNAP	188.680	2.320	
2002/09/12	21:17:03	47.76250457	-127.75935409	2658.413	EVT	188.960	2.390	looking for the best place to stow the Lang sampler
	connector							
2002/09/12	21:18:35	47.76249575	-127.75935680	2658.697	ASNAP	194.300	2.060	
2002/09/12	21:20:35	47.76247098	-127.75934146	2658.345	ASNAP	265.510	2.550	
2002/09/12	21:21:01	47.76247112	-127.75934125	2658.264	EVT	265.910	2.530	We just put down the Lang sampler intake
2002/09/12	21:22:35	47.76249979	-127.75933290	2657.953	ASNAP	323.890	2.800	
2002/09/12	21:23:08	47.76249865	-127.75936182	2658.082	EVT	5.330	2.740	Looking for the release for the Lang sampler
2002/09/12	21:24:36	47.76255810	-127.75935557	2658.136	ASNAP	186.750	2.670	
2002/09/12	21:25:09	47.76255793	-127.75935460	2658.163	EVT	186.900	2.670	Waiting for medea to move before releasing the Lang
	sampler							
2002/09/12	21:27:08	47.76260741	-127.75939727	2660.611	EVT	186.420	30.000	Preparing to take a push core just away from the drill
	hole							
2002/09/12	21:29:21	47.76260926	-127.75937046	2660.658	EVT	186.420	30.000	Push core complete
2002/09/12	21:30:58	47.76261127	-127.75936660	2660.529	EVT	186.440	30.000	Took a second push core
2002/09/12	21:32:36	47.76255681	-127.75940223	2660.117	ASNAP	187.030	0.830	
2002/09/12	21:33:01	47.76255524	-127.75940038	2656.966	EVT	177.240	3.930	Moving medea again
2002/09/12	21:34:36	47.76255649	-127.75938349	2655.100	ASNAP	176.050	5.760	
2002/09/12	21:35:54	47.76255636	-127.75938345	2654.985	EVT	175.950	5.890	preparing to take 2 more fluid sapmles
2002/09/12	21:36:36	47.76255616	-127.75938366	2655.127	ASNAP	176.000	5.840	
2002/09/12	21:36:52	47.76255616	-127.75938350	2655.309	EVT	176.110	5.670	taking more Butterfield samples
2002/09/12	21:38:33	47.76250583	-127.75939898	2657.703	EVT	175.970	3.000	moving Jason into position to extend the Butterfield
	sampler connector							
2002/09/12	21:38:36	47.76250582	-127.75939893	2657.683	ASNAP	175.990	2.980	
2002/09/12	21:40:00	47.76250760	-127.75939868	2657.453	EVT	175.550	3.210	Butterfield sampler connector in 1026b cone
2002/09/12	21:40:36	47.76250765	-127.75939873	2657.514	ASNAP	175.510	3.220	
2002/09/12	21:41:39	47.76250779	-127.75939862	2657.547	EVT	175.520	3.230	temperature rising
2002/09/12	21:42:36	47.76250791	-127.75939840	2657.595	ASNAP	175.510	3.230	
2002/09/12	21:42:59	47.76250798	-127.75939831	2657.541	EVT	175.520	3.220	temperature 61.7
2002/09/12	21:44:36	47.76250802	-127.75939812	2657.487	ASNAP	175.510	3.230	
2002/09/12	21:45:18	47.76250810	-127.75939798	2657.622	EVT	175.510	3.210	starting bag number 8
2002/09/12	21:46:36	47.76250836	-127.75939784	2657.622	ASNAP	175.520	3.230	
2002/09/12	21:48:36	47.76250852	-127.75939769	2657.527	ASNAP	175.460	3.220	
2002/09/12	21:50:36	47.76250885	-127.75939728	2657.554	ASNAP	175.450	3.230	

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/12	21:52:06	47.76250903	-127.75939705	2657.629	EVT	175.420 3.230	stopping sample bag number 8
2002/09/12	21:52:36	47.76250907	-127.75939711	2657.493	ASNAP	175.440 3.220	
2002/09/12	21:52:37	47.76250908	-127.75939710	2657.493	EVT	175.420 3.220	max 62.1 avg 62.1 vol 601
2002/09/12	21:53:36	47.76250901	-127.75939706	2657.561	EVT	175.410 3.210	starting unfiltered sample bag number 16
2002/09/12	21:54:36	47.76250916	-127.75939688	2657.622	ASNAP	175.400 3.230	
2002/09/12	21:56:36	47.76250941	-127.75939645	2657.595	ASNAP	175.410 3.220	
2002/09/12	21:58:36	47.76250981	-127.75939629	2657.629	ASNAP	175.390 3.220	
2002/09/12	21:59:31	47.76250993	-127.75939622	2657.608	EVT	175.380 3.220	stopping sample number 16
2002/09/12	22:00:00	47.76250995	-127.75939633	2657.676	EVT	175.370 3.210	max 62.2 avg 62.2 vol 601
2002/09/12	22:00:36	47.76251005	-127.75939649	2657.615	ASNAP	175.370 3.230	
2002/09/12	22:00:37	47.76251008	-127.75939647	2657.588	EVT	175.360 3.220	starting filter number 7
2002/09/12	22:02:36	47.76251056	-127.75939629	2657.615	ASNAP	175.360 3.210	
2002/09/12	22:04:36	47.76251094	-127.75939624	2657.588	ASNAP	175.350 3.220	
2002/09/12	22:06:36	47.76251123	-127.75939639	2657.703	ASNAP	175.350 3.210	
2002/09/12	22:08:27	47.76251146	-127.75939636	2657.757	EVT	175.330 3.230	stopping filter number 7
2002/09/12	22:08:36	47.76251152	-127.75939633	2657.689	ASNAP	175.350 3.220	
2002/09/12	22:08:43	47.76251153	-127.75939638	2657.757	EVT	175.360 3.270	max 62.2 avg 62.2 vol 1 liter
2002/09/12	22:09:08	47.76251160	-127.75939635	2657.629	EVT	175.430 3.240	removing the Butterfield sampler connector
2002/09/12	22:09:24	47.76251160	-127.75939631	2657.595	EVT	175.330 3.270	using the connector the try to scrape the cone
2002/09/12	22:09:31	47.76251160	-127.75939623	2657.649	EVT	175.380 3.250	starting filter number 15
2002/09/12	22:09:57	47.76251162	-127.75939637	2657.602	EVT	175.390 3.270	trying to suck up some debris
2002/09/12	22:10:36	47.76251159	-127.75939641	2657.635	ASNAP	175.390 3.250	
2002/09/12	22:10:38	47.76251158	-127.75939640	2657.622	EVT	175.370 3.250	moving connector around to try to suck up any loose debris that we can
2002/09/12	22:12:36	47.76251177	-127.75939650	2657.771	ASNAP	175.440 3.270	
2002/09/12	22:14:36	47.76251179	-127.75939659	2657.649	ASNAP	175.470 3.250	
2002/09/12	22:16:36	47.76251204	-127.75939701	2657.818	ASNAP	175.450 3.250	
2002/09/12	22:17:28	47.76251200	-127.75939725	2657.696	EVT	175.480 3.240	stopping
2002/09/12	22:17:54	47.76251206	-127.75939729	2657.771	EVT	175.480 3.270	max 41.5 avg 17.6 vol 787
2002/09/12	22:18:28	47.76251209	-127.75939732	2657.588	EVT	175.500 3.270	"That concludes our sampling episode for today"
2002/09/12	22:18:36	47.76251208	-127.75939735	2657.737	ASNAP	175.470 3.310	
2002/09/12	22:18:59	47.76251203	-127.75939734	2657.804	EVT	175.380 3.240	stowed the Butterfield sampler connector
2002/09/12	22:20:04	47.76252388	-127.75936029	2657.859	EVT	176.330 3.400	LAST photo of 1026b
2002/09/12	22:20:36	47.76251600	-127.75936187	2658.163	ASNAP	175.840 2.880	
2002/09/12	22:21:07	47.76251063	-127.75936118	2659.022	EVT	175.710 1.990	moving towards the Lang sampler to pull the pin and release it
2002/09/12	22:22:06	47.76250777	-127.75936003	2659.150	EVT	175.920 1.890	the release is on the right side of the red box
2002/09/12	22:22:36	47.76250589	-127.75936008	2659.427	ASNAP	175.890 1.580	
2002/09/12	22:23:30	47.76250603	-127.75936093	2659.380	EVT	176.680 1.600	reaching for the release
2002/09/12	22:24:03	47.76252643	-127.75933695	2659.184	EVT	176.160 2.090	Lang sampler on the move
2002/09/12	22:24:25	47.76252963	-127.75933256	2659.292	EVT	175.720 1.980	Lang sampler on it's way to the surface

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/12	22:24:36	47.76252979	-127.75933241	2659.373	ASNAP	176.210 1.850	
2002/09/12	22:26:36	47.76256957	-127.75917789	2649.460	ASNAP	175.890 11.550	
2002/09/12	22:26:45	47.76256903	-127.75917806	2649.514	EVT	176.270 11.810	we will wait for the Lang sampler to be recovered
then head to Baby Bare							
2002/09/12	22:28:36	47.76262662	-127.75920229	2649.541	ASNAP	176.160 11.670	
2002/09/12	22:30:36	47.76262697	-127.75920075	2649.366	ASNAP	175.940 11.950	
2002/09/12	22:32:36	47.76262698	-127.75920144	2649.433	ASNAP	176.110 11.820	
2002/09/12	22:34:36	47.76262692	-127.75920093	2649.332	ASNAP	176.160 11.840	
2002/09/12	22:36:36	47.76262705	-127.75921529	2649.447	ASNAP	241.560 11.720	
2002/09/12	22:38:36	47.76262691	-127.75920028	2649.325	ASNAP	173.530 11.790	
2002/09/12	22:40:36	47.76265586	-127.75923405	2649.190	ASNAP	173.650 12.060	
2002/09/12	22:42:36	47.76265641	-127.75923121	2649.393	ASNAP	173.730 11.700	
2002/09/12	22:44:36	47.76265635	-127.75923181	2649.278	ASNAP	173.810 12.060	
2002/09/12	22:46:36	47.76265679	-127.75923123	2649.366	ASNAP	173.800 11.980	
2002/09/12	22:48:36	47.76270682	-127.75925754	2649.251	ASNAP	173.770 12.040	
2002/09/12	22:50:36	47.76270683	-127.75925771	2649.345	ASNAP	173.730 12.000	
2002/09/12	22:52:36	47.76270688	-127.75925764	2649.386	ASNAP	173.690 12.110	
2002/09/12	22:54:36	47.76270670	-127.75925768	2649.440	ASNAP	173.720 11.930	
2002/09/12	22:56:36	47.76270708	-127.75925791	2649.345	ASNAP	173.780 12.130	
2002/09/12	22:58:36	47.76270696	-127.75925755	2649.271	ASNAP	173.770 12.030	
2002/09/12	22:58:38	47.76270702	-127.75925788	2649.298	EVT	173.780 12.070	Lang sampler to surface at approx 23:25
2002/09/12	23:00:36	47.76270684	-127.75925789	2649.345	ASNAP	173.840 11.990	
2002/09/12	23:02:36	47.76270701	-127.75925805	2649.305	ASNAP	173.840 12.060	
2002/09/12	23:04:36	47.76270702	-127.75925792	2649.440	ASNAP	173.800 12.180	
2002/09/12	23:06:37	47.76270668	-127.75925793	2649.447	ASNAP	133.720 12.060	
2002/09/12	23:08:37	47.76270680	-127.75925754	2649.366	ASNAP	160.070 12.040	
2002/09/12	23:10:37	47.76270688	-127.75925808	2649.203	ASNAP	160.210 12.160	
2002/09/12	23:12:37	47.76255298	-127.75917589	2649.379	ASNAP	159.960 12.130	
2002/09/12	23:14:37	47.76256837	-127.75904210	2649.257	ASNAP	160.220 12.010	
2002/09/12	23:16:37	47.76239955	-127.75895243	2649.386	ASNAP	160.210 11.850	
2002/09/12	23:18:37	47.76239556	-127.75896464	2649.386	ASNAP	159.150 11.890	
2002/09/12	23:20:37	47.76224400	-127.75897992	2649.481	ASNAP	160.830 11.950	
2002/09/12	23:22:37	47.76211118	-127.75893939	2649.115	ASNAP	160.080 12.060	
2002/09/12	23:24:17	47.76207058	-127.75891828	2649.440	EVT	160.160 12.010	Lang sampler on the surface
2002/09/12	23:24:37	47.76202798	-127.75889547	2649.521	ASNAP	160.050 11.910	
2002/09/12	23:26:37	47.76195510	-127.75885636	2649.568	ASNAP	160.510 11.720	
2002/09/12	23:27:13	47.76190109	-127.75882709	2648.994	EVT	159.850 12.140	starting to transit...hoo boy
2002/09/12	23:28:37	47.76190320	-127.75882828	2649.264	ASNAP	160.030 11.960	
2002/09/12	23:29:23	47.76186543	-127.75878947	2649.433	EVT	159.650 12.010	blank-text
2002/09/12	23:29:34	47.76184731	-127.75876620	2649.433	EVT	159.680 11.790	< jelly of some kind
2002/09/12	23:30:37	47.76184893	-127.75860720	2649.203	ASNAP	160.620 11.960	

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/12	23:32:37	47.76196789	-127.75852770	2649.129	ASNAP	160.300	12.090
2002/09/12	23:32:57	47.76201149	-127.75849708	2649.284	EVT	160.000	11.970 blank-text
2002/09/12	23:33:05	47.76202822	-127.75848373	2649.379	EVT	159.680	11.920 blank-text
2002/09/12	23:33:34	47.76203760	-127.75847422	2649.298	EVT	160.230	11.960 < shrimp
2002/09/12	23:34:37	47.76206969	-127.75834249	2649.257	ASNAP	160.250	12.090
2002/09/12	23:36:37	47.76213400	-127.75807947	2649.311	ASNAP	160.360	11.870
2002/09/12	23:37:53	47.76219401	-127.75783274	2643.266	EVT	160.210	17.960 blank-text
2002/09/12	23:38:29	47.76226271	-127.75776422	2643.111	EVT	159.500	18.000 blank-text
2002/09/12	23:38:37	47.76228119	-127.75775650	2643.151	ASNAP	160.180	17.900
2002/09/12	23:40:37	47.76243134	-127.75763630	2643.368	ASNAP	160.150	17.760
2002/09/12	23:42:37	47.76255661	-127.75731241	2643.273	ASNAP	160.160	17.900
2002/09/12	23:44:37	47.76269978	-127.75706312	2643.246	ASNAP	160.510	18.070
2002/09/12	23:46:37	47.76278962	-127.75662604	2643.706	ASNAP	57.000	17.940
2002/09/12	23:47:40	47.76302434	-127.75633684	2646.356	EVT	38.290	14.890 heading to Baby Bare
2002/09/12	23:48:04	47.76311349	-127.75625734	2651.746	EVT	39.120	9.510 blank-text
2002/09/12	23:48:37	47.76325212	-127.75603722	2652.300	ASNAP	41.780	9.240
2002/09/13	00:03:30	47.76325290	-127.75534009	2508.689	EVT	351.090	30.000 it looks like ASNAP has stopped working again, probably because we've moved up in the water column for transit
2002/09/13	00:08:12	47.76281264	-127.75547332	2508.696	EVT	1.650	30.000 blank-text
2002/09/13	00:11:31	47.76249195	-127.75563241	2508.764	EVT	8.130	30.000 blank-text
2002/09/13	00:13:02	47.76233289	-127.75572833	2508.486	EVT	10.060	30.000 blank-text
2002/09/13	00:15:03	47.76212780	-127.75587564	2508.459	EVT	10.180	30.000 blank-text
2002/09/13	00:15:34	47.76208284	-127.75590267	2508.459	EVT	10.400	30.000 transiting
2002/09/13	00:21:30	47.76143667	-127.75640573	2508.507	EVT	15.520	30.000 blank-text
2002/09/13	00:21:45	47.76140942	-127.75642263	2508.453	EVT	16.070	30.000 < crustacean
2002/09/13	00:23:34	47.76121096	-127.75659434	2508.365	EVT	14.060	30.000 Jim: "Are we there yet?"
2002/09/13	00:26:40	47.76086056	-127.75689025	2508.595	EVT	14.970	30.000 blank-text
2002/09/13	00:27:18	47.76079714	-127.75694362	2508.547	EVT	13.480	30.000 blank-text
2002/09/13	00:28:55	47.76061010	-127.75710027	2508.385	EVT	13.240	30.000 blank-text
2002/09/13	01:10:32	47.75553866	-127.76202698	2508.439	EVT	17.840	30.000 blank-text
2002/09/13	01:10:40	47.75552045	-127.76204312	2508.486	EVT	18.200	30.000 < JELLY
2002/09/13	01:16:08	47.75482567	-127.76270360	2508.365	EVT	18.950	30.000 blank-text
2002/09/13	01:30:37	47.75296409	-127.76454882	2508.399	EVT	20.590	30.000 blank-text
2002/09/13	01:52:12	47.75019035	-127.76750114	2508.155	EVT	20.710	30.000 blank-text
2002/09/13	02:16:29	47.74708431	-127.77095011	2508.121	EVT	21.340	30.000 blank-text
2002/09/13	04:47:42	47.73034947	-127.79405523	2508.683	EVT	41.000	30.000 ship is on station, waiting for elevator launch
2002/09/13	04:57:20	47.73007651	-127.79500101	2508.649	EVT	66.370	30.000 elevator is on its way down
2002/09/13	06:10:15	47.73133419	-127.79579696	2528.338	EVT	130.790	30.000 elevator is on the bottom
2002/09/13	06:15:22	47.73150955	-127.79582130	2587.504	EVT	149.500	16.730 24.5 meter altitude
2002/09/13	06:16:18	47.73151041	-127.79579755	2599.280	EVT	149.290	7.260 nav target 55 is the elevator
2002/09/13	06:17:42	47.73150170	-127.79580142	2605.333	EVT	164.120	2.110 bottom in sight

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/13	06:19:14	47.73130071	-127.79570933	2605.144	EVT	164.000	9.600	elevator in view, video restarted
2002/09/13	06:22:25	47.73124594	-127.79572148	2612.949	EVT	141.440	1.890	blank-text
2002/09/13	06:23:31	47.73124426	-127.79571962	2612.597	EVT	141.050	2.150	Barrel sampler 1A and 1B on elevator 1
2002/09/13	06:24:43	47.73124323	-127.79571969	2612.543	EVT	142.780	2.160	elevator in the grasp
2002/09/13	06:27:29	47.73124388	-127.79571988	2607.099	EVT	315.430	9.800	40 to 50 meters at 315 heading
2002/09/13	06:28:23	47.73127012	-127.79575931	2606.889	EVT	315.260	9.170	probe site is between nav targets 19 and 20
2002/09/13	06:29:21	47.73127007	-127.79575956	2607.078	EVT	315.270	9.490	range and bearing previously listed is to probe 4.
2002/09/13	06:29:59	47.73131014	-127.79581851	2606.909	EVT	313.430	7.850	blank-text
2002/09/13	06:36:46	47.70967504	-127.78539649	2594.545	EVT	315.080	15.310	top of elevator
2002/09/13	06:36:47	47.70967588	-127.78539766	2594.214	EVT	315.330	16.120	blank-text
2002/09/13	06:57:03	47.70984025	-127.78566446	2594.620	EVT	344.900	6.510	elevat
2002/09/13	06:57:19	47.70983788	-127.78566363	2594.742	EVT	345.310	5.910	barrel sampler from above
2002/09/13	06:57:26	47.70983328	-127.78566309	2596.067	EVT	345.620	5.200	Ray
2002/09/13	06:59:12	47.70987301	-127.78565843	2595.587	EVT	345.670	4.230	reaching for the elevator
2002/09/13	07:00:50	47.70991107	-127.78565503	2593.450	EVT	10.290	7.080	moving the elevator
2002/09/13	07:01:36	47.70987739	-127.78564898	2594.586	EVT	348.070	4.900	elevator with barrel sampler in position
2002/09/13	07:06:27	47.70986859	-127.78576423	2599.794	EVT	61.410	4.480	extending drawer
2002/09/13	07:07:47	47.70986839	-127.78576410	2599.808	EVT	61.480	4.380	Jason is picking up marker number 46
2002/09/13	07:17:15	47.70988512	-127.78562375	2595.925	EVT	5.320	2.820	marker number 46 marks location of probe number 4
		and pipe MAV						
2002/09/13	07:20:17	47.70990371	-127.78574463	2597.501	EVT	45.920	5.350	Jason will now pick up the thermal stake (thermal
		dagger)						
2002/09/13	07:21:58	47.70991605	-127.78572752	2600.612	EVT	44.280	1.370	reaching for the thermal stake
2002/09/13	07:26:59	47.70992061	-127.78573197	2600.349	EVT	84.930	1.710	trying again to free the thermal stake
2002/09/13	07:28:51	47.70991989	-127.78573276	2600.545	EVT	85.090	1.640	thermal stake is free to be picked up
2002/09/13	07:30:11	47.70991908	-127.78573391	2600.484	EVT	84.760	1.630	thermal stake
2002/09/13	07:30:41	47.70991899	-127.78573409	2600.579	EVT	84.840	1.680	what kind of fish is that
2002/09/13	07:30:44	47.70991907	-127.78573399	2600.443	EVT	84.910	1.670	fish
2002/09/13	07:32:00	47.70995399	-127.78571165	2597.785	EVT	85.600	2.930	probe number 3
2002/09/13	07:33:59	47.70996876	-127.78570586	2598.394	EVT	85.750	1.610	thermal stake
2002/09/13	07:34:15	47.70996861	-127.78570604	2598.414	EVT	85.710	1.610	Jason driving thermal stake into the ground
2002/09/13	07:34:30	47.70996840	-127.78570594	2598.482	EVT	85.230	1.640	thermal stake being pushed down
2002/09/13	07:35:01	47.70996798	-127.78570894	2598.455	EVT	85.540	1.710	2 thermistors left sticking out
2002/09/13	07:35:15	47.70996819	-127.78570866	2598.482	EVT	85.550	1.700	flawless deployment
2002/09/13	07:37:00	47.70996833	-127.78571039	2598.408	EVT	85.720	1.810	wxtending basket to pick up marker for thermal stake
2002/09/13	07:39:14	47.70996836	-127.78571046	2598.448	EVT	85.630	1.690	marker 47 = thermal stake location
2002/09/13	07:46:31	47.70989291	-127.78570714	2596.223	EVT	352.060	4.840	Jason rotating the elevator
2002/09/13	07:48:13	47.70989424	-127.78570219	2594.505	EVT	24.470	7.250	rotation complete
2002/09/13	07:51:21	47.70990943	-127.78562308	2596.757	EVT	38.990	1.500	moving in to disconnect pipe MAV
2002/09/13	07:52:11	47.70990853	-127.78562347	2597.048	EVT	39.350	1.360	connector to pipe MAV removed
2002/09/13	07:54:40	47.70990828	-127.78562315	2597.001	EVT	38.830	1.370	disconnected pipe MAV

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/13	07:54:50	47.70990827	-127.78562320	2597.170	EVT	39.040	1.300	picked up pipe MAV
2002/09/13	07:55:08	47.70990011	-127.78562969	2595.695	EVT	38.780	3.130	holding pipe MAV AND connector
2002/09/13	07:57:51	47.70994202	-127.78570967	2599.192	EVT	39.910	1.460	re located pipe MAV
2002/09/13	07:58:03	47.70994224	-127.78570981	2599.165	EVT	39.840	1.500	pipe MAV new location
2002/09/13	07:58:15	47.70994219	-127.78570994	2599.233	EVT	39.770	1.490	new pipe MAV connection
2002/09/13	07:58:44	47.70994193	-127.78570887	2599.314	EVT	39.830	1.470	pipe MAV connected
2002/09/13	07:59:13	47.70994193	-127.78570861	2599.280	EVT	39.570	1.470	examining connector gap
2002/09/13	07:59:31	47.70994152	-127.78570831	2599.273	EVT	39.920	1.520	trying to lessen the gap
2002/09/13	07:59:40	47.70994041	-127.78571071	2599.280	EVT	39.460	1.510	fully connected
2002/09/13	07:59:55	47.70994033	-127.78571108	2599.185	EVT	39.370	1.520	we will now examine the exhaust from the pipe
		MAVCpipe MAV						
2002/09/13	08:00:02	47.70994023	-127.78571103	2599.368	EVT	39.320	1.540	lots of flow
2002/09/13	08:11:35	47.70990779	-127.78565750	2598.063	EVT	23.790	1.310	Jason reaching to pick up the barrel sampler
		connector						
2002/09/13	08:25:33	47.70991640	-127.78565212	2597.150	EVT	8.140	1.190	about to connect the barrel sampler to the probe
2002/09/13	08:26:31	47.70991736	-127.78565220	2597.177	EVT	8.140	1.230	connection complete
2002/09/13	08:26:58	47.70991937	-127.78564999	2597.325	EVT	8.020	1.170	moving the switch on the connector to ON position
2002/09/13	08:27:12	47.70992026	-127.78564713	2597.197	EVT	8.020	1.160	connector switch = ON
2002/09/13	08:28:26	47.70992452	-127.78565813	2596.622	EVT	9.330	1.980	moving over to barrel sampler to turn on pump
2002/09/13	08:28:57	47.70992724	-127.78566352	2597.718	EVT	8.910	30.000	the right barrel will be filled first = labeled 1A
2002/09/13	08:29:19	47.70992804	-127.78566136	2597.860	EVT	8.770	0.990	turning right valve vertical then turn switch ON
2002/09/13	08:30:00	47.70992824	-127.78566030	2597.839	EVT	8.600	1.000	right valve vertical
2002/09/13	08:30:14	47.70992849	-127.78565974	2597.758	EVT	8.590	1.060	turning pump ON
2002/09/13	08:30:20	47.70992849	-127.78565973	2597.806	EVT	8.960	0.980	down is ON
2002/09/13	08:30:30	47.70992757	-127.78565925	2597.873	EVT	8.960	0.990	inspecting flow meter
2002/09/13	08:31:18	47.70992504	-127.78565650	2597.779	EVT	8.850	30.000	FLOW is occurring
2002/09/13	08:31:42	47.70992373	-127.78565533	2597.907	EVT	8.720	0.980	we will monitor flow meter
2002/09/13	08:35:54	47.70993285	-127.78565048	2597.873	EVT	8.950	30.000	5 min = .5
2002/09/13	08:40:08	47.70993284	-127.78564935	2597.853	EVT	8.820	0.990	10 min = .5
2002/09/13	08:45:10	47.70993466	-127.78565427	2598.056	EVT	8.860	0.990	15 min = .5
2002/09/13	08:50:15	47.70992665	-127.78565372	2597.968	EVT	8.710	0.990	20 min = .5
2002/09/13	08:55:16	47.70992405	-127.78565650	2597.941	EVT	8.970	30.000	25 min = .45
2002/09/13	09:00:04	47.70992069	-127.78566346	2597.941	EVT	8.880	30.000	30 min = .3
2002/09/13	09:05:04	47.70992034	-127.78567416	2598.083	EVT	8.940	30.000	35 min = .3
2002/09/13	09:09:31	47.70991345	-127.78567954	2598.015	EVT	8.960	30.000	40 min=
2002/09/13	09:10:11	47.70991176	-127.78568024	2598.076	EVT	8.980	1.100	The navigation window is yellow and says 144
		seconds since data...						
2002/09/13	09:10:23	47.70991120	-127.78568031	2598.130	EVT	8.970	30.000	40 min=0.2
2002/09/13	09:10:32	47.70991065	-127.78568060	2598.083	EVT	9.010	0.980	It's back to being green now
2002/09/13	09:15:07	47.70989788	-127.78568075	2598.096	EVT	8.870	1.110	45 min=0.2
2002/09/13	09:17:56	47.70988895	-127.78568002	2597.062	EVT	9.120	2.090	Can see lots of exhaust

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/13	09:18:32	47.70988865	-127.78567980	2596.818	EVT	9.470	2.340	50 min=
2002/09/13	09:19:39	47.70988872	-127.78567960	2596.845	EVT	9.550	2.360	50 min=0.2
2002/09/13	09:25:02	47.70988884	-127.78567976	2596.926	EVT	9.320	2.040	55 min=0.5
2002/09/13	09:30:05	47.70988877	-127.78567994	2596.879	EVT	9.110	2.120	60 min = .3
2002/09/13	09:31:12	47.70988829	-127.78568443	2598.164	EVT	8.860	1.210	we will now close the right hand barrel - 1A 25.25
gallons evacuated								
2002/09/13	09:32:21	47.70987893	-127.78570417	2598.171	EVT	8.690	0.950	opening left barrel 1B
2002/09/13	09:32:55	47.70987223	-127.78571808	2598.164	EVT	8.700	0.960	flow is slow
2002/09/13	09:33:04	47.70987075	-127.78572139	2598.103	EVT	8.710	0.970	0 min = .3
2002/09/13	09:37:39	47.70981884	-127.78583029	2598.191	EVT	8.760	0.990	5 min = .4
2002/09/13	09:42:44	47.70978244	-127.78590415	2598.286	EVT	8.800	0.980	5 min=0.4
2002/09/13	09:52:47	47.70974031	-127.78603483	2598.387	EVT	8.890	30.000	15 min=0.4
2002/09/13	09:53:17	47.70973800	-127.78604864	2598.299	EVT	8.910	0.970	It's actually 20 min up there
2002/09/13	09:57:40	47.70971900	-127.78616128	2598.347	EVT	8.950	0.920	25 min=0.4
2002/09/13	10:02:40	47.70970835	-127.78629002	2598.475	EVT	8.950	0.960	30 min=0.35
2002/09/13	10:07:40	47.70972133	-127.78638941	2598.455	EVT	8.960	0.960	35 min=0.4
2002/09/13	10:12:39	47.70971789	-127.78650058	2598.550	EVT	9.010	0.930	40 min=0.4
2002/09/13	10:17:23	47.70971086	-127.78656587	2598.502	EVT	9.010	0.920	45 min = 0.35
2002/09/13	10:22:52	47.70969049	-127.78663960	2598.651	EVT	9.020	0.940	50 min = 0.3
2002/09/13	10:27:46	47.70965806	-127.78672826	2598.597	EVT	9.010	0.940	55 min=0.2
2002/09/13	10:32:29	47.70961492	-127.78683530	2598.340	EVT	9.350	1.300	60 min=0.2
2002/09/13	10:37:21	47.70960983	-127.78683549	2598.766	EVT	9.150	1.230	65=0.2
2002/09/13	10:42:22	47.70960058	-127.78685723	2598.780	EVT	9.170	1.230	70=0.1
2002/09/13	10:42:32	47.70960046	-127.78685796	2598.901	EVT	9.200	1.220	We're done with the barrel sampler!
2002/09/13	10:42:37	47.70960020	-127.78685837	2598.834	EVT	9.150	1.230	Closing the valves
2002/09/13	10:44:58	47.70960707	-127.78685130	2598.874	EVT	8.990	1.050	The barrel sampler is shut down
2002/09/13	10:53:01	47.70960740	-127.78684561	2598.008	EVT	7.840	1.360	We're putting the intake hose back onto the elevator
2002/09/13	11:04:58	47.70962211	-127.78686720	2598.617	EVT	13.860	1.320	replacing the nozzle - little fishy
2002/09/13	11:06:03	47.70962242	-127.78686761	2598.698	EVT	13.920	1.280	trying to get to pin to lock the nozzle in the basket
2002/09/13	11:06:20	47.70962239	-127.78686772	2598.712	EVT	13.840	1.260	nozzle stowed
2002/09/13	11:07:59	47.70961532	-127.78685364	2598.103	EVT	35.750	1.900	lifting off and heading to probe to do some fluid
sampling								
2002/09/13	11:10:14	47.70961586	-127.78685422	2598.049	EVT	37.000	1.910	flow looks good - no sediment
2002/09/13	11:10:38	47.70961580	-127.78685438	2598.130	EVT	37.170	1.950	getting out beast nozzle and setting up for some fluid
sampling								
2002/09/13	11:10:49	47.70961543	-127.78685506	2598.090	EVT	37.310	1.990	its time for some excitement!
2002/09/13	11:12:29	47.70961360	-127.78685801	2598.144	EVT	36.880	2.090	connecting nozzle
2002/09/13	11:12:38	47.70961359	-127.78685845	2598.063	EVT	36.960	2.100	sampler is connected
2002/09/13	11:14:45	47.70961307	-127.78686254	2598.151	EVT	36.930	2.080	sampler temp up to 18 and going up still
2002/09/13	11:26:55	47.70961074	-127.78687318	2598.137	EVT	36.920	2.050	tiny sulfide signal says dave
2002/09/13	11:28:48	47.70961061	-127.78687357	2598.245	EVT	36.880	2.040	pumping through flush pump...watching sensors

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/13	11:30:19	47.70961033	-127.78687336	2598.103	EVT	36.970	2.060	temperatures 19.1 T1 13.6 T2 these temps are stable
2002/09/13	11:32:04	47.70960984	-127.78687414	2598.130	EVT	36.950	2.060	turned pump off and temp went up to 19.6
	momentarily							
2002/09/13	11:35:20	47.70960942	-127.78687201	2598.238	EVT	36.960	2.060	starting piston 23 time 11:34
2002/09/13	11:37:02	47.70960939	-127.78687015	2598.232	EVT	37.030	2.050	sample exhaust looks good... piston is moving
2002/09/13	11:43:51	47.70960917	-127.78686505	2598.421	EVT	37.000	2.050	sample stopped at 1142
2002/09/13	11:44:32	47.70960922	-127.78686469	2598.299	EVT	36.930	2.050	piston sample 23 tmax 19.2 tavg 19.1 total volume
	reported as 666 - dave says it looks full to 750							
2002/09/13	11:45:53	47.70960925	-127.78686413	2598.347	EVT	37.000	2.050	starting filter 3
2002/09/13	11:53:42	47.70960751	-127.78687846	2598.279	EVT	37.220	2.070	changing tapes
2002/09/13	11:55:20	47.70960719	-127.78688161	2598.360	EVT	37.260	2.070	all tapes changed
2002/09/13	12:00:00	47.70960629	-127.78688966	2598.299	EVT	37.130	2.050	stopping sample 3
2002/09/13	12:00:31	47.70960623	-127.78689008	2598.360	EVT	37.160	2.060	sample 3 max 19.2 average 19.1 volume 11:59
2002/09/13	12:01:12	47.70960590	-127.78689220	2598.401	EVT	37.080	2.050	T2 average 13.1 during sample 3
2002/09/13	12:02:48	47.70960544	-127.78689242	2598.387	EVT	37.090	2.060	starting bag 18
2002/09/13	12:09:19	47.70960546	-127.78688995	2598.523	EVT	37.030	2.070	bag 18 stopped
2002/09/13	12:09:43	47.70960541	-127.78689089	2598.252	EVT	37.150	2.070	bag18 Tmax 19.0 avg 18.9 T2 13.1 volume 611
2002/09/13	12:10:14	47.70960546	-127.78689102	2598.435	EVT	37.080	2.050	starting bag 17
2002/09/13	12:17:13	47.70960645	-127.78688662	2598.408	EVT	36.950	2.070	bag 18 stopped
2002/09/13	12:17:46	47.70960655	-127.78688606	2598.462	EVT	37.000	2.070	oops that was bag 17 Tmax 19.1 Tavg 19.0 T2 13.1
	volume 616							
2002/09/13	12:18:47	47.70960688	-127.78688525	2598.468	EVT	36.970	2.070	end of sampling on probe 4 - going to check sensors
	once more then move to probe 3							
2002/09/13	12:20:25	47.70960721	-127.78688369	2598.516	EVT	36.940	2.090	moving to probe 3 now after we take the nozzle off
2002/09/13	12:23:22	47.70960667	-127.78688814	2598.570	EVT	36.810	2.100	blank-text
2002/09/13	12:23:39	47.70960671	-127.78688815	2598.455	EVT	36.840	2.100	probe tip still flowing
2002/09/13	12:23:52	47.70960667	-127.78688840	2598.360	EVT	36.770	2.110	this is still probe 4
2002/09/13	12:27:47	47.70962428	-127.78694398	2599.956	EVT	36.750	2.210	arriving at probe 3
2002/09/13	12:32:07	47.70963323	-127.78695162	2600.903	EVT	40.770	1.400	MAV nozzle removed - placing in basket while
	sampling							
2002/09/13	12:32:47	47.70963349	-127.78695121	2600.836	EVT	40.840	1.430	actually going to put it on the ground
2002/09/13	12:32:54	47.70963360	-127.78695121	2600.788	EVT	40.910	1.480	sediment coming from the pipe
2002/09/13	12:34:44	47.70963308	-127.78695208	2600.849	EVT	40.900	1.440	grabbing nozzle
2002/09/13	12:38:46	47.70963289	-127.78695399	2600.964	EVT	40.840	1.420	nozzle in claw
2002/09/13	12:47:28	47.70963184	-127.78695026	2600.836	EVT	39.980	1.400	nozzle in place... seems kinda bent
2002/09/13	12:54:01	47.70963072	-127.78695082	2600.815	EVT	40.040	1.400	temp up to 19.9
2002/09/13	12:59:29	47.70963091	-127.78695090	2600.883	EVT	40.080	1.380	starting bag 19
2002/09/13	13:05:48	47.70963067	-127.78694904	2600.815	EVT	40.090	1.380	bag 19 stopped
2002/09/13	13:06:19	47.70963077	-127.78694936	2600.890	EVT	40.090	1.380	bag 19 Tmax 20.1 Tavg 19.9 T2 12.4 volume 614
2002/09/13	13:07:49	47.70963062	-127.78694979	2600.917	EVT	40.100	1.370	starting bag 11
2002/09/13	13:14:09	47.70962997	-127.78694808	2600.910	EVT	40.120	1.370	bag 11 stopped

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/13	13:14:19	47.70962987	-127.78694790	2600.937	EVT	40.120	1.380	bag 11 Tmax 20.1 Tavg 20.0
2002/09/13	13:14:32	47.70962980	-127.78694797	2601.052	EVT	40.110	1.370	bag 11 T2 12.4 volume 614
2002/09/13	13:15:50	47.70962961	-127.78694798	2600.957	EVT	40.110	1.370	starting filter 21
2002/09/13	13:17:54	47.70962981	-127.78694694	2601.018	EVT	40.120	1.390	filter 21 stopped
2002/09/13	13:18:21	47.70962975	-127.78694708	2600.910	EVT	40.120	1.370	filter 21 Tmax 20.1 Tavg 20.0 T2 12.5 volume 208
2002/09/13	13:19:44	47.70962957	-127.78694682	2600.984	EVT	40.120	1.370	starting filter 12
2002/09/13	13:31:21	47.70962907	-127.78695029	2600.917	EVT	40.080	1.380	stopping filter 12
2002/09/13	13:31:36	47.70962905	-127.78695062	2600.856	EVT	40.090	1.390	filter 12 Tmax 20.1 Tavg 19.9
2002/09/13	13:31:58	47.70962912	-127.78695103	2601.059	EVT	40.090	1.380	filter 12 T2 12.1 volume 1015
2002/09/13	13:33:14	47.70962901	-127.78695126	2600.829	EVT	40.080	1.380	starting piston 20
2002/09/13	13:40:01	47.70962896	-127.78695343	2600.937	EVT	40.070	1.380	piston
2002/09/13	13:40:08	47.70962904	-127.78695361	2601.018	EVT	40.070	1.370	piston 20 stopped
2002/09/13	13:40:28	47.70962889	-127.78695363	2600.957	EVT	40.070	1.370	piston 21 Tmax 20.1 Tavg 20.0 T2 12.1 volume 695
2002/09/13	13:42:37	47.70962915	-127.78695715	2600.957	EVT	40.060	1.380	starting piston 24
2002/09/13	13:48:51	47.70962968	-127.78696428	2601.045	EVT	40.050	1.380	changing tapes
2002/09/13	13:49:35	47.70962975	-127.78696546	2600.984	EVT	40.050	1.390	sample stopped
2002/09/13	13:50:59	47.70962992	-127.78696642	2600.863	EVT	40.050	1.390	piston 24 Tmax 20.2 Tavg 20.1 T2 13 volume 694
2002/09/13	13:51:22	47.70963000	-127.78696672	2600.984	EVT	40.050	1.380	dine with fluid samples... going to take Mausmi's
sample and then start recovering								
2002/09/13	13:51:27	47.70963007	-127.78696683	2600.978	EVT	40.050	1.380	starting Mausmi's RNA sample
2002/09/13	13:58:27	47.70962984	-127.78696628	2600.930	EVT	40.060	1.390	Jon doing DVD recording including recording
duration checks								
2002/09/13	14:03:03	47.70963107	-127.78696740	2600.863	EVT	40.070	1.360	getting ready to finish the sample
2002/09/13	14:03:33	47.70963102	-127.78696769	2600.957	EVT	40.060	1.390	sample stopped
2002/09/13	14:04:12	47.70963089	-127.78696823	2601.012	EVT	40.060	1.400	filter 10 - Mausmi's filter - Tmax 20.3 Tavg 20.1 T2
13.1 volume 1100								
2002/09/13	14:04:19	47.70963077	-127.78696857	2600.944	EVT	40.060	1.400	removing nozzle
2002/09/13	14:05:18	47.70963038	-127.78697017	2600.978	EVT	40.050	1.390	sediment blowing out of probe right after removing
nozzle								
2002/09/13	14:06:02	47.70963019	-127.78697030	2600.937	EVT	40.050	1.400	another shot of sediment-y nozzle and putting nozzle
away								
2002/09/13	14:06:21	47.70962998	-127.78697066	2600.944	EVT	40.040	1.400	Butterfield sampler nozzle stowed
2002/09/13	14:07:21	47.70962976	-127.78697131	2601.025	EVT	40.070	1.410	picked up MAV nozzle
2002/09/13	14:08:53	47.70962934	-127.78697353	2600.782	EVT	40.040	1.410	nozzle shot
2002/09/13	14:09:44	47.70962922	-127.78697376	2600.903	EVT	40.110	1.410	MAV nozzle in place
2002/09/13	14:11:15	47.70962972	-127.78697427	2600.957	EVT	40.510	1.420	retracting basket... stowing manipulator... heading for
elevator								
2002/09/13	14:16:14	47.70964439	-127.78691542	2598.164	EVT	146.500	1.520	getting rid of weights in milk crate
2002/09/13	14:16:29	47.70964423	-127.78691555	2598.293	EVT	146.450	1.480	backing off to burn the wire and send elevator up
2002/09/13	14:16:49	47.70964141	-127.78692844	2597.691	EVT	140.960	2.520	shot of marker 46
2002/09/13	14:16:54	47.70964026	-127.78693725	2597.636	EVT	122.390	3.030	blank-text

Event log: LEXEN 2002
Dive J2-007

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/13	14:17:06	47.70963527	-127.78695291	2597.961	EVT	109.140	3.470	another behind the elevator
2002/09/13	14:17:11	47.70963943	-127.78695630	2598.313	EVT	80.510	3.180	oops... that was dusty
2002/09/13	14:21:07	47.70965058	-127.78699531	2598.205	EVT	72.580	4.670	marker 47
2002/09/13	14:22:21	47.70965242	-127.78698281	2600.193	EVT	64.030	1.820	we are safely out of the way
2002/09/13	14:22:37	47.70965237	-127.78698295	2600.213	EVT	63.960	1.920	picking up the thermal dagger
2002/09/13	14:23:35	47.70965161	-127.78698582	2600.092	EVT	64.310	2.180	replacing the thermal dagger... getting it vertical
2002/09/13	14:26:18	47.70964494	-127.78698438	2598.123	EVT	83.100	4.200	getting ready to send the code to send the elevator up
2002/09/13	14:31:21	47.70964763	-127.78698541	2593.139	EVT	109.340	9.090	putting ICL into the basket for ascent
2002/09/13	14:36:00	47.70964738	-127.78698531	2592.753	EVT	109.480	9.200	blank-text
2002/09/13	14:36:00	47.70964738	-127.78698531	2592.753	EVT	109.480	9.200	blank-text
2002/09/13	14:39:01	47.70964720	-127.78698516	2592.699	EVT	109.330	9.280	waiting for the elevator to take off
2002/09/13	14:41:00	47.70964768	-127.78698493	2592.963	EVT	109.270	8.910	blank-text
2002/09/13	14:41:03	47.70964759	-127.78698494	2592.936	EVT	109.290	8.920	blank-text
2002/09/13	14:41:05	47.70964750	-127.78698496	2592.942	EVT	109.300	9.010	blank-text
2002/09/13	14:41:09	47.70964736	-127.78698506	2592.868	EVT	109.390	9.080	liftoff
2002/09/13	14:41:15	47.70964769	-127.78698501	2593.030	EVT	109.210	8.930	there she goes
2002/09/13	14:42:01	47.70964754	-127.78698510	2592.848	EVT	109.300	9.010	elevator on the way... getting into recover mode for
Jason								
2002/09/13	14:44:21	47.70976118	-127.78710681	2588.573	EVT	314.020	10.840	Jason coming up slow
2002/09/13	15:42:12	47.70985828	-127.78555556	755.863	EVT	250.260	30.000	stopped recording
2002/09/13	15:52:56	47.70985828	-127.78555556	400.187	EVT	279.020	30.000	elevator is on surface
2002/09/13	16:12:59	47.70985828	-127.78555556	48.634	EVT	103.400	30.000	elevator recovered
2002/09/13	16:20:21	47.70985828	-127.78555556	44.184	EVT	112.440	30.000	beginning jason recovery
2002/09/13	16:23:13	47.70985828	-127.78555556	1.034	EVT	125.600	30.000	jason on surface
2002/09/13	16:29:35	47.70985828	-127.78555556	0.048	EVT	133.660	30.000	blank-text
2002/09/13	16:29:45	47.70985828	-127.78555556	0.110	EVT	149.460	30.000	blank-text
2002/09/13	16:31:21	47.70985828	-127.78555556	0.274	EVT	246.260	30.000	jason on deck

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/14	14:07:57	45.91664774	-130.02501387	0.486	EVT	214.880	30.000	getting ready for J2008
2002/09/14	14:10:05	45.91665188	-130.02502305	0.397	EVT	232.830	30.000	beginning launch
2002/09/14	14:10:47	45.91665186	-130.02502322	0.472	EVT	232.940	30.000	noticed that time synch was wrong on LBL computer
2002/09/14	14:11:10	45.91665253	-130.02502398	0.466	EVT	234.970	30.000	restarted tardis on this dlog1
2002/09/14	14:13:13	45.91662587	-130.02497174	2.027	EVT	130.510	1.240	Jason is now in the water
2002/09/14	14:22:31	45.91661839	-130.02551280	52.064	EVT	66.030	30.000	jim Varnum is now taking over pilot position
2002/09/14	15:05:35	45.91322194	-130.02611454	1437.477	EVT	12.790	30.000	tapes started 15:01:00-30
2002/09/14	15:05:51	45.91321217	-130.02612107	1445.094	EVT	12.900	30.000	100 meters off of bottom
2002/09/14	15:07:11	45.91296635	-130.02633351	1453.710	EVT	221.480	30.000	25 meters off bottom
2002/09/14	15:11:54	45.91278602	-130.02630198	1523.480	EVT	223.720	2.800	bottom in view
2002/09/14	15:12:26	45.91279115	-130.02629619	1522.556	EVT	219.050	3.800	bacterial staining in cracks
2002/09/14	15:12:52	45.91279146	-130.02629569	1522.481	EVT	219.170	3.860	venting already
2002/09/14	15:13:08	45.91278560	-130.02630224	1522.889	EVT	219.260	3.590	we are in the marker N3 area
2002/09/14	15:13:37	45.91276513	-130.02632575	1521.835	EVT	218.920	4.530	We are waiting for Medea to settle
2002/09/14	15:15:42	45.91265671	-130.02643440	1520.761	EVT	219.040	5.910	close up of diffuse venting
2002/09/14	15:16:14	45.91265665	-130.02643417	1521.495	EVT	219.000	5.100	bacterial mat
2002/09/14	15:16:26	45.91265636	-130.02643454	1521.767	EVT	219.150	4.980	ASnap
2002/09/14	15:16:59	45.91265580	-130.02643523	1521.570	EVT	219.060	5.200	We are approximately 10 meters from target.
2002/09/14	15:19:39	45.91263461	-130.02642983	1525.724	EVT	98.270	1.150	If there is flow nearby, we will take a temperature measurement.
2002/09/14	15:19:55	45.91262542	-130.02640781	1525.384	EVT	101.500	1.310	more bacterial mat
2002/09/14	15:20:55	45.91263737	-130.02638631	1526.118	EVT	130.090	0.680	collapse area and blue mat, collapse in left upper corner.
2002/09/14	15:21:36	45.91264032	-130.02639563	1526.172	EVT	130.000	0.700	Entire frame in diffuse flow.
2002/09/14	15:23:10	45.91260907	-130.02643859	1526.070	EVT	129.950	0.700	Getting icl ready
2002/09/14	15:23:32	45.91260889	-130.02643924	1526.016	EVT	129.820	0.680	11.7
2002/09/14	15:23:50	45.91260902	-130.02644052	1525.989	EVT	130.300	0.790	12.3 degrees high
2002/09/14	15:24:06	45.91260909	-130.02644033	1525.968	EVT	130.020	0.700	background looked like 3.8 degrees
2002/09/14	15:24:57	45.91260938	-130.02644038	1526.118	EVT	129.800	0.690	12.3 is the high point, we have seen 16 in previous years.
2002/09/14	15:25:34	45.91260988	-130.02644132	1526.016	EVT	129.840	0.680	19 degrees
2002/09/14	15:25:46	45.91261004	-130.02644102	1526.097	EVT	129.850	0.680	20.4 is now the high
2002/09/14	15:26:02	45.91261054	-130.02644050	1525.995	EVT	129.840	0.690	20.8 high
2002/09/14	15:26:21	45.91261079	-130.02644162	1526.050	EVT	129.560	0.700	dropped to 13 degrees
2002/09/14	15:26:52	45.91261083	-130.02644212	1525.927	EVT	129.570	0.680	There is not alot of flow here. It would be tough to sample.
2002/09/14	15:26:56	45.91261076	-130.02644211	1526.009	EVT	129.590	0.700	blank-text
2002/09/14	15:27:23	45.91261119	-130.02644262	1526.070	EVT	129.900	0.670	Slowly driving towards target.
2002/09/14	15:28:15	45.91261209	-130.02644867	1526.016	EVT	129.930	0.680	Lobate lavas covered with limpets and bacterial mat.
2002/09/14	15:29:02	45.91261049	-130.02645065	1525.404	EVT	127.200	1.250	collapse pit
2002/09/14	15:29:30	45.91260601	-130.02645317	1525.220	EVT	127.240	1.770	lava here is only 4.5 to 5 years old.

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/14	15:29:34	45.91260519	-130.02645171	1524.983	EVT	127.200	1.970	blank-text
2002/09/14	15:30:07	45.91259547	-130.02643361	1525.193	EVT	127.110	1.640	tube worms nearby, good temperature and flow indicator.
2002/09/14	15:32:54	45.91253869	-130.02640141	1525.900	EVT	327.600	4.160	close up of limpets and tube worms\
2002/09/14	15:33:25	45.91254184	-130.02640402	1526.145	EVT	327.440	3.870	tube worms in flow
2002/09/14	15:34:09	45.91254292	-130.02641578	1527.239	EVT	327.860	2.640	We are going to use the fluid sampler probe for temperature measurements.
2002/09/14	15:34:55	45.91254314	-130.02641455	1526.811	EVT	345.720	2.890	ICL registers 4.1 as it is holstered.
2002/09/14	15:36:22	45.91254329	-130.02641413	1526.798	EVT	345.680	3.010	fluid sampler probe ready
2002/09/14	15:37:14	45.91254488	-130.02641440	1527.049	EVT	343.350	2.800	probe above seafloor.
2002/09/14	15:37:39	45.91254488	-130.02641466	1527.029	EVT	343.280	2.810	3.5 degrees
2002/09/14	15:37:59	45.91254495	-130.02641464	1527.056	EVT	343.230	2.800	5 degrees
2002/09/14	15:38:07	45.91254501	-130.02641482	1527.199	EVT	343.200	2.790	11 degrees
2002/09/14	15:38:19	45.91254503	-130.02641501	1527.083	EVT	343.170	2.810	17 degrees
2002/09/14	15:38:27	45.91254507	-130.02641511	1527.056	EVT	343.140	2.810	19 degrees
2002/09/14	15:38:36	45.91254505	-130.02641516	1527.124	EVT	343.120	2.810	21 degrees
2002/09/14	15:38:49	45.91254502	-130.02641536	1527.165	EVT	343.080	2.800	22 degrees
2002/09/14	15:39:42	45.91254522	-130.02641599	1527.008	EVT	342.940	2.800	positioning probe for best temperature.
2002/09/14	15:39:51	45.91254519	-130.02641607	1527.097	EVT	343.060	2.890	17 degrees
2002/09/14	15:40:21	45.91254521	-130.02641612	1527.165	EVT	342.990	2.810	14 degrees
2002/09/14	15:40:34	45.91254520	-130.02641621	1527.090	EVT	342.030	2.800	19
2002/09/14	15:40:52	45.91254473	-130.02641607	1526.988	EVT	341.980	2.790	19.5 and decreasing
2002/09/14	15:41:23	45.91254445	-130.02641519	1527.056	EVT	342.000	2.800	moving back to first spot and best temperature.
2002/09/14	15:42:08	45.91254372	-130.02641443	1527.022	EVT	341.900	2.800	under rock, temperature increased to 21
2002/09/14	15:42:30	45.91254337	-130.02641415	1527.008	EVT	341.840	2.800	22 degrees
2002/09/14	15:42:53	45.91254302	-130.02641407	1527.110	EVT	341.780	2.800	22.3, flow on to sensor block, locked in
2002/09/14	15:43:19	45.91254278	-130.02641356	1526.995	EVT	341.720	2.800	pH dropping
2002/09/14	15:44:04	45.91254258	-130.02641315	1527.158	EVT	341.620	2.800	near marker N3, 22.4 degrees
2002/09/14	15:45:08	45.91254173	-130.02641234	1527.076	EVT	341.480	2.800	6.58 on pH, 7.3 on background
2002/09/14	15:45:28	45.91254170	-130.02641149	1527.165	EVT	341.450	2.800	we see flow from the flush pump
2002/09/14	15:45:56	45.91254135	-130.02641072	1527.076	EVT	341.390	2.800	some chunks are coming through flush effluent
2002/09/14	15:47:29	45.91254030	-130.02640852	1527.110	EVT	341.250	2.800	f3 sterivex started now
2002/09/14	15:48:05	45.91253989	-130.02640765	1527.131	EVT	341.200	2.800	22.4 T2 is 13.2
2002/09/14	15:48:40	45.91253965	-130.02640691	1527.035	EVT	341.160	2.800	temperature stable at 22.4, depth 1527, sample under rock.
2002/09/14	15:49:11	45.91253914	-130.02640641	1526.981	EVT	341.140	2.800	blank-text
2002/09/14	15:49:24	45.91253902	-130.02640637	1527.001	EVT	341.120	2.800	sampling site
2002/09/14	15:50:59	45.91253800	-130.02640489	1527.069	EVT	341.050	2.800	blank-text
2002/09/14	15:51:46	45.91253784	-130.02640414	1527.124	EVT	341.030	2.790	excellent stability, great temperature
2002/09/14	15:52:26	45.91253748	-130.02640390	1527.035	EVT	341.010	2.800	flow nearby
2002/09/14	15:52:44	45.91253731	-130.02640370	1527.008	EVT	341.000	2.810	close up of sampling site

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/14	15:54:02	45.91253628	-130.02640269	1527.124	EVT	340.990	2.800	short term temperature blip down to 19 degrees
2002/09/14	15:54:48	45.91253574	-130.02640174	1526.995	EVT	340.990	2.820	blue mat
2002/09/14	15:55:00	45.91253562	-130.02640136	1527.035	EVT	340.990	2.820	local area
2002/09/14	15:55:23	45.91253531	-130.02640109	1527.097	EVT	340.990	2.800	blank-text
2002/09/14	15:55:26	45.91253523	-130.02640104	1527.063	EVT	340.990	2.800	blank-text
2002/09/14	15:55:42	45.91253482	-130.02640091	1526.995	EVT	341.000	2.800	tube worms good flow
2002/09/14	15:56:28	45.91253413	-130.02640005	1527.029	EVT	341.000	2.800	that previous frame grab was a suggested sample site
but we are doing well here.								
2002/09/14	15:58:34	45.91253097	-130.02639796	1527.029	EVT	341.050	2.800	stopped sample
2002/09/14	15:58:37	45.91253097	-130.02639790	1527.056	EVT	341.060	2.810	blank-text
2002/09/14	15:59:09	45.91253044	-130.02639722	1527.001	EVT	341.070	2.800	22.5 max, 22.3 average 1003 ml, 13.4 on T2
2002/09/14	15:59:21	45.91253019	-130.02639695	1527.158	EVT	341.080	2.800	next, piston 5
2002/09/14	15:59:46	45.91252977	-130.02639654	1526.988	EVT	341.090	2.800	starting p5
2002/09/14	15:59:58	45.91252964	-130.02639636	1527.090	EVT	341.100	2.800	unfiltered piston
2002/09/14	16:00:12	45.91252937	-130.02639579	1527.029	EVT	341.110	2.810	p5 is moving
2002/09/14	16:05:28	45.91252796	-130.02638901	1527.144	EVT	341.320	2.800	p5 may have stopped
2002/09/14	16:05:55	45.91252787	-130.02638861	1527.001	EVT	341.340	2.800	no flow out of sample pump tube.
2002/09/14	16:07:04	45.91252770	-130.02638885	1527.069	EVT	341.390	2.800	piston 5 is still not moving
2002/09/14	16:08:06	45.91252758	-130.02638907	1526.913	EVT	341.430	2.800	abandoned sample, stopped, piston didn't work
2002/09/14	16:09:17	45.91252700	-130.02638892	1526.974	EVT	341.490	2.800	moving to bag sample 8
2002/09/14	16:09:39	45.91252687	-130.02638907	1527.035	EVT	341.500	2.800	started sample
2002/09/14	16:10:16	45.91252665	-130.02638921	1526.988	EVT	341.530	2.810	good outflow from sample pump
2002/09/14	16:10:51	45.91252622	-130.02638872	1527.042	EVT	341.550	2.800	blank-text
2002/09/14	16:11:31	45.91252585	-130.02638761	1527.049	EVT	341.570	2.800	Don't see much out of flush pump.
2002/09/14	16:11:51	45.91252525	-130.02638714	1527.029	EVT	341.590	2.800	blank-text
2002/09/14	16:13:40	45.91252445	-130.02638573	1526.974	EVT	341.660	2.800	Interesting in how you see local currents by the way
the outflow moves.								
2002/09/14	16:14:35	45.91252392	-130.02638524	1527.110	EVT	341.690	2.800	BIO.mvf Brittle_Stars
2002/09/14	16:15:24	45.91252355	-130.02638443	1527.117	EVT	341.720	2.800	stopped sample
2002/09/14	16:15:35	45.91252351	-130.02638433	1527.022	EVT	341.730	2.800	blank-text
2002/09/14	16:15:46	45.91252347	-130.02638433	1526.988	EVT	341.730	2.800	blank-text
2002/09/14	16:15:57	45.91252333	-130.02638410	1527.069	EVT	341.740	2.800	22.4 max 22.1 average, 613 ml 13.5 on T2
2002/09/14	16:17:05	45.91252250	-130.02638237	1526.934	EVT	341.780	2.800	clean flow out of flush pump
2002/09/14	16:17:13	45.91252232	-130.02638225	1527.063	EVT	341.780	2.810	LogEvent
2002/09/14	16:17:41	45.91252206	-130.02638206	1527.056	EVT	341.790	2.800	starting p23
2002/09/14	16:18:16	45.91252175	-130.02638151	1526.995	EVT	341.810	2.800	stopped sample, on wrong port
2002/09/14	16:19:35	45.91252127	-130.02638048	1527.008	EVT	341.850	2.800	we are still going with p23
2002/09/14	16:22:13	45.91251938	-130.02637863	1527.035	EVT	341.910	2.800	p23 is a filtered piston
2002/09/14	16:26:29	45.91251624	-130.02637778	1527.042	EVT	341.990	2.790	DVD recording
2002/09/14	16:28:15	45.91251446	-130.02637532	1526.954	EVT	342.010	2.610	stopped piston 23
2002/09/14	16:28:52	45.91251374	-130.02637472	1526.981	EVT	342.020	2.800	stopped itself, 22.4 avg. 22.1, 13.4 T2, 681 ml

Event log: LEXEN 2002

Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/14	16:29:21	45.91251356	-130.02637411	1526.927	EVT	342.030	2.800	maximum T was 22.4
2002/09/14	16:29:38	45.91251338	-130.02637377	1526.927	EVT	342.030	2.800	trying p5 again
2002/09/14	16:30:48	45.91251254	-130.02637198	1527.022	EVT	342.040	2.800	pump is on, but no shimmer out sample effluent
2002/09/14	16:32:34	45.91251037	-130.02636925	1526.995	EVT	342.060	2.800	piston 5 has not moved
2002/09/14	16:34:07	45.94376066	-129.98519575	1526.866	EVT	342.070	2.800	stopped piston 5
2002/09/14	16:34:39	45.94376024	-129.98519495	1527.035	EVT	342.070	2.790	moving to "Old Worms" site
2002/09/14	16:36:30	45.94375891	-129.98519117	1526.988	EVT	342.070	2.800	probe stowed, ready to move
2002/09/14	16:37:54	45.94375617	-129.98519022	1526.519	EVT	342.000	3.500	video search for n3 marker
2002/09/14	16:38:28	45.94375577	-129.98519013	1526.267	EVT	341.870	3.760	blank-text
2002/09/14	16:38:53	45.94375591	-129.98519028	1526.417	EVT	341.860	3.630	frame grabs of local area
2002/09/14	16:39:03	45.94375625	-129.98519061	1526.322	EVT	342.040	3.750	blank-text
2002/09/14	16:39:12	45.94375515	-129.98519127	1525.472	EVT	342.030	4.640	blank-text
2002/09/14	16:39:38	45.94375499	-129.98519146	1525.581	EVT	341.950	4.610	we just finsihed a good mosaicking session with
DVD								
2002/09/14	16:40:09	45.94375458	-129.98519151	1525.465	EVT	341.970	4.460	note that until a couple of minutes ago, doppler had
not been reset to anything, sopositions were all way off								
2002/09/14	16:41:05	45.94375370	-129.98519086	1525.431	EVT	73.420	2.880	1100 meters to Marker 33, 1 hour 20 min
2002/09/14	16:42:23	45.94376162	-129.98520100	1525.513	EVT	321.390	2.610	We could be at Old worms in 20 min
2002/09/14	16:42:47	45.94376803	-129.98521835	1525.445	EVT	320.610	2.390	360 degree search, did not find marker n3
2002/09/14	16:44:09	45.94376565	-129.98521922	1525.615	EVT	320.850	2.260	mtr line found
2002/09/14	16:44:23	45.94376546	-129.98521924	1525.560	EVT	320.870	2.060	picture of line
2002/09/14	16:44:54	45.94377047	-129.98522496	1525.547	EVT	320.930	2.730	blank-text
2002/09/14	16:45:51	45.94376941	-129.98522393	1525.642	EVT	320.770	2.590	54
2002/09/14	16:46:23	45.94377151	-129.98522274	1525.628	EVT	322.230	2.680	5 AND 4 ON LABEL OF MTR
2002/09/14	16:47:14	45.94377303	-129.98521822	1524.214	EVT	323.810	3.700	304 is on the MTR maybe another digit
2002/09/14	16:51:04	45.94377626	-129.98515277	1524.554	EVT	88.670	2.770	bright target ahead
2002/09/14	16:51:55	45.94377579	-129.98511749	1524.649	EVT	102.290	2.490	bacterial mat
2002/09/14	16:53:15	45.94381562	-129.98511871	1524.928	EVT	358.310	1.790	now moving
2002/09/14	16:54:29	45.94390966	-129.98518266	1524.548	EVT	130.810	1.730	bacterial mat in every hole
2002/09/14	16:56:05	45.94382652	-129.98509798	1524.242	EVT	166.700	1.970	bacterial mat in crevices
2002/09/14	16:57:44	45.94382156	-129.98507557	1523.861	EVT	240.900	1.890	jumbled sheet flow
2002/09/14	16:58:31	45.94379974	-129.98512488	1523.800	EVT	153.330	2.330	now heading for marker 33, abandoned search for
actual n3 marker								
2002/09/14	16:59:00	45.94377110	-129.98510548	1521.461	EVT	163.180	5.440	course heading 169
2002/09/14	17:00:29	45.94373413	-129.98508382	1521.584	EVT	169.820	5.440	nav target 2 is marker 33
2002/09/14	17:01:35	45.94373386	-129.98508369	1522.665	EVT	170.100	4.460	tape jammed on recorder 3
2002/09/14	17:03:59	45.94364581	-129.98506529	1523.759	EVT	169.710	5.610	secured the DFC video camera
2002/09/14	17:06:39	45.94349817	-129.98515458	1523.881	EVT	169.750	5.150	tape 3 problem corrected
2002/09/14	17:08:47	45.94336366	-129.98512014	1524.717	EVT	169.770	3.590	white bacterial mat
2002/09/14	17:09:14	45.94333259	-129.98511255	1524.568	EVT	169.900	3.260	blank-text
2002/09/14	17:09:18	45.94332931	-129.98511139	1524.711	EVT	169.940	3.150	white mat on ledge

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/14	17:09:38	45.94330569	-129.98510572	1524.622	EVT	170.130	2.830	we sampled here last year
2002/09/14	17:09:56	45.94327024	-129.98509661	1524.819	EVT	169.260	3.810	water running up ledge
2002/09/14	17:11:10	45.94311126	-129.98505664	1520.129	EVT	169.000	4.760	Old worms was NAV target 1, Marker 33 is nav 2
2002/09/14	17:11:40	45.94303010	-129.98503515	1520.401	EVT	169.310	6.420	moorings nearby
2002/09/14	17:12:22	45.94292340	-129.98500875	1519.157	EVT	169.360	4.390	Nav target 3 will be Cloud
2002/09/14	17:12:52	45.94284465	-129.98498796	1519.286	EVT	170.020	3.640	Nav target 9 was marker n3
2002/09/14	17:13:23	45.94276847	-129.98496945	1518.559	EVT	170.980	3.640	collapse pit
2002/09/14	17:17:49	45.94249146	-129.98501300	1517.056	EVT	172.150	4.110	some sediments in cracks between lobates
2002/09/14	17:20:28	45.94207368	-129.98493092	1516.553	EVT	172.030	3.550	collapse pit
2002/09/14	17:21:40	45.94189221	-129.98489580	1516.580	EVT	171.660	3.480	collapse pit
2002/09/14	17:23:04	45.94169970	-129.98485828	1516.383	EVT	171.630	4.460	increased bacterial mat from the previous frames, less sediment
2002/09/14	17:25:04	45.94143163	-129.98480695	1516.050	EVT	171.910	2.960	out of the bacterial mat region
2002/09/14	17:25:17	45.94140231	-129.98480062	1516.091	EVT	171.870	2.870	crab
2002/09/14	17:25:47	45.94146582	-129.98483930	1515.459	EVT	172.170	3.390	sedimented lobate flows
2002/09/14	17:27:09	45.94130682	-129.98478977	1513.093	EVT	171.750	4.860	continuing over sedimented lobate flows
2002/09/14	17:28:22	45.94114598	-129.98475352	1513.535	EVT	171.990	4.310	blank-text
2002/09/14	17:28:37	45.94111178	-129.98474703	1513.548	EVT	172.110	4.440	collapse pit
2002/09/14	17:29:03	45.94106108	-129.98473728	1512.420	EVT	171.210	5.600	collapse pit at left
2002/09/14	17:30:36	45.94089390	-129.98470465	1512.807	EVT	171.960	5.180	blank-text
2002/09/14	17:32:22	45.94066042	-129.98465920	1512.665	EVT	171.900	5.250	42 minutes to nav 2, marker 33
2002/09/14	17:42:39	45.93918193	-129.98425471	1513.800	EVT	171.730	4.350	lava pillar
2002/09/14	17:43:05	45.93911625	-129.98424167	1513.793	EVT	172.190	4.050	lobate flows
2002/09/14	17:49:58	45.93800148	-129.98392186	1516.472	EVT	171.890	4.090	sheet flow slight sediment
2002/09/14	17:50:16	45.93795277	-129.98391236	1516.431	EVT	172.230	4.610	ropy, curtain flow
2002/09/14	17:52:54	45.93752899	-129.98382924	1516.390	EVT	171.810	4.480	ropy sheet flow
2002/09/14	17:53:38	45.93741274	-129.98380642	1516.438	EVT	171.880	4.600	some sediment between cracks
2002/09/14	17:53:49	45.93738287	-129.98380124	1516.363	EVT	172.090	4.960	sheet flow
2002/09/14	17:56:12	45.93699886	-129.98372697	1516.852	EVT	172.230	4.120	ropy sheet flow
2002/09/14	17:56:32	45.93694734	-129.98371655	1517.199	EVT	172.390	4.010	swirled lava
2002/09/14	17:58:13	45.93667777	-129.98366409	1516.981	EVT	172.360	4.040	ropy sheet flow, some of which is broken
2002/09/14	17:59:13	45.93651559	-129.98363229	1516.975	EVT	172.430	4.420	another lava swirl
2002/09/14	17:59:46	45.93642608	-129.98361584	1516.907	EVT	172.300	4.380	swirl
2002/09/14	18:00:30	45.93633881	-129.98359842	1519.089	EVT	172.740	2.170	jumbled sheet flow
2002/09/14	18:01:15	45.93628834	-129.98352043	1516.975	EVT	171.050	3.310	no detectaa
2002/09/14	18:01:31	45.93630134	-129.98352282	1517.124	EVT	171.910	3.340	no detectable sediment
2002/09/14	18:01:54	45.93630158	-129.98352405	1517.281	EVT	172.340	3.320	a little more sediment on swirl
2002/09/14	18:03:37	45.93607066	-129.98344648	1517.777	EVT	172.130	3.480	sheet flow with parallel lines
2002/09/14	18:03:52	45.93600314	-129.98343373	1517.559	EVT	171.780	3.680	crossing large crack
2002/09/14	18:04:48	45.93585554	-129.98340461	1517.355	EVT	172.090	3.720	lines are parallel to our transit, the crack was perpendicular

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/14	18:05:09	45.93580683	-129.98339545	1517.185	EVT	172.300	3.890	another crack
2002/09/14	18:06:05	45.93567706	-129.98337048	1517.328	EVT	172.330	3.890	perpendicular crack ahead
2002/09/14	18:06:29	45.93562122	-129.98335942	1517.328	EVT	172.310	3.720	large swirl
2002/09/14	18:06:44	45.93558922	-129.98335293	1517.355	EVT	172.300	3.720	more swirls
2002/09/14	18:07:18	45.93551021	-129.98333818	1517.233	EVT	172.270	3.910	striations again
2002/09/14	18:07:37	45.93546999	-129.98332968	1517.688	EVT	172.000	3.540	crack in sheet flow
2002/09/14	18:08:05	45.93540729	-129.98331810	1517.763	EVT	172.310	3.550	crack was trending about 45 degrees to our track line
2002/09/14	18:08:33	45.93534217	-129.98330492	1517.797	EVT	172.280	3.600	we are about 250 m away from Marker 33
2002/09/14	18:09:02	45.93523201	-129.98328165	1517.872	EVT	171.990	3.450	striations parallel to subs course
2002/09/14	18:09:33	45.93516789	-129.98317613	1518.096	EVT	168.470	3.140	another swirl, quite large
2002/09/14	18:09:38	45.93516403	-129.98317777	1517.920	EVT	170.270	3.340	blank-text
2002/09/14	18:09:41	45.93516207	-129.98317872	1517.770	EVT	170.290	3.620	blank-text
2002/09/14	18:09:45	45.93515466	-129.98317920	1517.661	EVT	170.610	3.700	blank-text
2002/09/14	18:09:59	45.93513331	-129.98319399	1517.804	EVT	170.280	3.830	blank-text
2002/09/14	18:10:20	45.93510686	-129.98314589	1517.444	EVT	170.250	4.020	it is a little deeper in the center of the swirl
2002/09/14	18:11:37	45.93495072	-129.98305466	1517.484	EVT	172.030	3.930	striations parallel to course
2002/09/14	18:12:17	45.93484675	-129.98302602	1517.478	EVT	171.840	3.750	blank-text
2002/09/14	18:12:50	45.93478566	-129.98295366	1517.614	EVT	172.340	3.480	blank-text
2002/09/14	18:13:17	45.93470764	-129.98293909	1517.471	EVT	172.190	3.690	more striations
2002/09/14	18:13:28	45.93467972	-129.98293339	1517.457	EVT	172.250	3.630	up close
2002/09/14	18:13:46	45.93463020	-129.98292405	1517.247	EVT	171.960	3.960	some sediment in striations
2002/09/14	18:14:03	45.93458325	-129.98291492	1516.832	EVT	171.960	4.390	crack perp. to course
2002/09/14	18:14:56	45.93443996	-129.98288346	1516.845	EVT	172.230	4.080	jumbled sheet flow
2002/09/14	18:15:28	45.93440879	-129.98277209	1516.023	EVT	172.310	3.450	blank-text
2002/09/14	18:15:54	45.93438515	-129.98275006	1516.383	EVT	172.650	1.800	pillars and lobate flow on the edge of sheet flow
2002/09/14	18:16:04	45.93435493	-129.98274802	1516.084	EVT	172.290	3.720	lobates
2002/09/14	18:16:19	45.93431754	-129.98274114	1516.111	EVT	172.610	1.960	marker 33 is on sheet flow
2002/09/14	18:16:44	45.93428461	-129.98273411	1515.724	EVT	172.750	4.120	cloud is on lobates like this
2002/09/14	18:17:56	45.93406333	-129.98262688	1514.976	EVT	172.000	5.000	there is more verticle relief here than we have seen
on this dive. They had to rise 3 meters to get over the top of pillars, lobates								
2002/09/14	18:19:58	45.93379518	-129.98257212	1515.547	EVT	172.040	5.740	this is a collapse area as the whole area was at once at
the level of the 3 meter lobates we crossed a few minutes ago. This was actually recorded by Bill Chadwicks rumbleometer.								
2002/09/14	18:21:18	45.93365447	-129.98253923	1515.574	EVT	141.630	5.940	marker in the distance.
2002/09/14	18:21:31	45.93365822	-129.98254034	1515.826	EVT	140.170	5.730	marker 53
2002/09/14	18:22:52	45.93360094	-129.98236185	1516.186	EVT	99.840	4.960	bench mark next to 53. Once contained pressure
sensor.								
2002/09/14	18:23:50	45.93358051	-129.98220684	1516.132	EVT	113.950	5.310	bacterial mat
2002/09/14	18:24:56	45.93355034	-129.98215014	1518.062	EVT	157.650	3.890	another marker, actually a rope to an anchor
2002/09/14	18:25:16	45.93350788	-129.98212509	1516.553	EVT	157.480	5.880	this might have been a previous RAS site.
2002/09/14	18:29:08	45.93344900	-129.98231450	1516.145	EVT	340.450	5.920	bacterial mat
2002/09/14	18:29:58	45.93347183	-129.98231358	1516.737	EVT	4.900	5.240	more bacterial mat in cracks

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/14	18:30:13	45.93347035	-129.98231091	1516.703	EVT	50.180	5.440	blank-text
2002/09/14	18:31:47	45.93346946	-129.98231397	1516.852	EVT	94.680	5.230	bacterial mat in cracks
2002/09/14	18:33:13	45.93340628	-129.98215882	1517.743	EVT	110.140	4.120	lobe over a sheet flow
2002/09/14	18:34:28	45.93335983	-129.98197990	1517.818	EVT	352.040	4.950	Didn't get the picture of the lobe. It was a few seconds before the last frame grab.
2002/09/14	18:35:02	45.93336276	-129.98197920	1517.702	EVT	270.080	4.290	crack in sheet flow
2002/09/14	18:36:05	45.93345118	-129.98215797	1518.327	EVT	308.550	3.970	bacterial mat
2002/09/14	18:36:19	45.93347011	-129.98218979	1517.484	EVT	307.740	5.030	blank-text
2002/09/14	18:36:49	45.93349596	-129.98223771	1517.580	EVT	308.130	4.840	following bacterial line to marker 33
2002/09/14	18:37:08	45.93349502	-129.98223707	1517.593	EVT	307.760	4.810	X marks the spot
2002/09/14	18:37:52	45.93350962	-129.98225419	1519.626	EVT	344.570	2.610	the bacterial x is how marker 33 can be distinguished.
The is a sensor.								
2002/09/14	18:38:26	45.93351611	-129.98225598	1519.816	EVT	351.000	2.460	osmo sampler is the sensor, also some bac traps
2002/09/14	18:38:54	45.93351583	-129.98225539	1519.823	EVT	354.670	2.600	Lots of shimmer
2002/09/14	18:39:08	45.93351543	-129.98225545	1519.701	EVT	354.740	2.590	blank-text
2002/09/14	18:39:29	45.93351864	-129.98224133	1520.285	EVT	15.370	2.010	bac traps and mtr on rope
2002/09/14	18:39:59	45.93352592	-129.98223720	1520.734	EVT	358.250	1.900	blue bacterial mat
2002/09/14	18:40:25	45.93352470	-129.98223724	1520.843	EVT	358.950	1.830	this blue bacterial mat was not observed in previous years.
2002/09/14	18:40:43	45.93352457	-129.98223720	1520.890	EVT	358.910	1.810	blank-text
2002/09/14	18:40:54	45.93352453	-129.98223727	1520.849	EVT	358.900	1.820	blank-text
2002/09/14	18:41:01	45.93352450	-129.98223722	1520.754	EVT	358.920	1.820	blank-text
2002/09/14	18:41:13	45.93352439	-129.98223717	1520.815	EVT	358.830	1.830	overview of site
2002/09/14	18:41:41	45.93352425	-129.98223716	1520.870	EVT	358.830	1.820	we are going to use the fluid sampler for temperature measurements
2002/09/14	18:41:55	45.93352422	-129.98223714	1520.714	EVT	358.840	1.880	Beware of the bac traps
2002/09/14	18:42:57	45.93352372	-129.98223721	1520.782	EVT	358.770	1.890	blank-text
2002/09/14	18:43:54	45.93351892	-129.98223615	1520.870	EVT	358.620	1.660	The following numbers are temperature measurements from the fluid sampler.
2002/09/14	18:44:22	45.93352253	-129.98223599	1520.469	EVT	358.700	2.230	blank-text
2002/09/14	18:45:14	45.93352340	-129.98223601	1520.727	EVT	355.190	1.950	bac trap in picture
2002/09/14	18:45:33	45.93352339	-129.98223598	1520.754	EVT	355.070	1.900	may have been bumped.
2002/09/14	18:45:53	45.93352339	-129.98223591	1520.782	EVT	354.990	1.930	That is the bac traps may have been bumped.
2002/09/14	18:46:12	45.93352317	-129.98223603	1520.809	EVT	355.100	1.890	taking temperatures at the surface.
2002/09/14	18:46:26	45.93352303	-129.98223600	1520.802	EVT	355.020	1.890	2.7 degrees
2002/09/14	18:46:39	45.93352295	-129.98223600	1520.809	EVT	355.010	1.890	blue mat
2002/09/14	18:47:05	45.93352278	-129.98223592	1520.707	EVT	355.150	1.900	flush pump on
2002/09/14	18:47:22	45.93352268	-129.98223596	1520.775	EVT	355.160	1.890	close up
2002/09/14	18:47:46	45.93352243	-129.98223602	1520.714	EVT	355.160	1.900	limpets
2002/09/14	18:49:19	45.93352197	-129.98223640	1520.788	EVT	355.270	1.890	trying to look around for a good crack to take a sample in with the Butterfield Sampler

Event log: LEXEN 2002

Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/14	18:50:33	45.93352179	-129.98223653	1520.652	EVT	355.770	1.920	are going to map out the crack in terms of fluid temperature
2002/09/14	18:51:26	45.93352167	-129.98223643	1520.714	EVT	355.410	1.940	20 seconds in each spot to measure temp
2002/09/14	18:51:32	45.93352174	-129.98223640	1520.673	EVT	355.510	1.950	4.9 degrees
2002/09/14	18:51:35	45.93352173	-129.98223634	1520.836	EVT	355.380	1.950	7 degrees
2002/09/14	18:51:55	45.93352167	-129.98223630	1520.748	EVT	355.420	1.940	a little over 7 and now moving to another spot
2002/09/14	18:52:00	45.93352165	-129.98223625	1520.720	EVT	355.340	1.930	moving right to left
2002/09/14	18:52:26	45.93352169	-129.98223612	1520.836	EVT	355.520	1.910	in another spot, getting 5 degrees
2002/09/14	18:59:24	45.93351633	-129.98223719	1520.951	EVT	355.930	1.690	14.6 degree temperature reading
2002/09/14	19:02:07	45.93351538	-129.98223661	1520.877	EVT	355.930	1.730	temperature down to 8.6
2002/09/14	19:02:36	45.93351511	-129.98223652	1520.931	EVT	355.850	1.730	moved the intake
2002/09/14	19:03:27	45.93351404	-129.98223624	1520.163	EVT	355.670	2.380	Lang sampler to be dropped on mkr 33: Jason is moving out of the way
2002/09/14	19:03:48	45.93351411	-129.98223687	1520.013	EVT	355.420	2.510	max temp at that location was 14.6
2002/09/14	19:05:10	45.93351377	-129.98223647	1519.830	EVT	355.540	2.620	putting the Butterfield intake away
2002/09/14	19:09:04	45.93358417	-129.98231714	1518.599	EVT	321.690	2.660	blank-text
2002/09/14	19:09:05	45.93358404	-129.98231708	1518.627	EVT	321.660	2.570	blank-text
2002/09/14	19:09:20	45.93359026	-129.98232251	1518.769	EVT	322.000	2.410	close up of patch (previous grab)
2002/09/14	19:13:57	45.93385916	-129.98262443	1516.676	EVT	321.110	4.710	the Lang sampler is on it's way down
2002/09/14	19:16:17	45.93383501	-129.98278765	1518.157	EVT	322.230	3.050	Swirl on the ocean floor
2002/09/14	19:16:54	45.93383973	-129.98279088	1518.715	EVT	322.040	2.610	blank-text
2002/09/14	19:17:16	45.93383955	-129.98279069	1518.565	EVT	322.010	2.750	close up of rock swirl
2002/09/14	19:21:55	45.93383947	-129.98279024	1518.280	EVT	322.060	2.950	the rock swirl is a collapsed lava pillar
2002/09/14	19:34:52	45.93386795	-129.98282586	1519.571	EVT	321.120	1.720	time to deploy wood
2002/09/14	19:35:12	45.93386488	-129.98281967	1519.592	EVT	321.930	1.610	the swing arm holding the wood is out
2002/09/14	19:35:22	45.93386480	-129.98281915	1519.150	EVT	322.070	2.050	we will be deploying 3 wood units
2002/09/14	19:37:00	45.93386474	-129.98281925	1519.436	EVT	321.890	1.920	trying to use the port side manipulator
2002/09/14	19:37:13	45.93386477	-129.98281915	1519.463	EVT	322.040	1.780	the swing arm is out of reach
2002/09/14	19:42:36	45.93386495	-129.98281889	1519.402	EVT	322.150	1.880	the arm is not functioning properly
2002/09/14	19:48:36	45.93386483	-129.98281905	1519.463	EVT	322.060	1.860	pull pin on the wood has been removed
2002/09/14	19:51:40	45.93386487	-129.98281927	1519.442	EVT	321.980	1.740	wood deployed on sea floor
2002/09/14	19:52:15	45.93386427	-129.98281944	1519.429	EVT	322.000	1.760	reaching for next bag of wood
2002/09/14	19:52:53	45.93386437	-129.98281913	1519.368	EVT	321.960	1.870	next bag 'drop deployed'
2002/09/14	19:53:16	45.93385677	-129.98281771	1519.191	EVT	321.850	1.930	shots of three bags
2002/09/14	19:53:40	45.93387376	-129.98280916	1519.293	EVT	260.350	2.020	a marker is hung up on one of the bags
2002/09/14	19:54:13	45.93387219	-129.98282164	1520.299	EVT	245.580	0.950	good shot of bags of wood
2002/09/14	19:55:47	45.93386696	-129.98282640	1520.489	EVT	246.100	0.740	a spider crab is attacking one of Janets blocks of wood already
2002/09/14	19:56:34	45.93384730	-129.98279177	1519.272	EVT	297.680	1.880	good shot of bags of wood
2002/09/14	19:56:48	45.93384672	-129.98279132	1519.850	EVT	291.020	1.440	good shot of bags of wood plus area around it
2002/09/14	20:58:58	45.93368897	-129.98345456	1514.813	EVT	275.340	6.300	They think they've spotted the elevator on nav

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/14	20:59:30	45.93368936	-129.98345423	1515.017	EVT	275.520	6.060	Moving west to find the Lang sampler\
2002/09/14	21:11:06	45.93404807	-129.98361771	1515.003	EVT	298.600	6.530	Lang sampler in view
2002/09/14	21:14:07	45.93408823	-129.98377817	1514.514	EVT	286.730	5.960	picking up the Lang sampler to transport it
2002/09/14	21:16:46	45.93409091	-129.98379327	1500.591	EVT	291.220	20.630	ready to transit the Lang sampler to it's sampling position
2002/09/14	22:00:10	45.93316966	-129.98225487	1516.900	EVT	113.000	5.400	we have arrived at marker 33
2002/09/14	22:00:40	45.93318213	-129.98229898	1518.457	EVT	121.230	3.730	looking for a spot to delpoy the Lang sampler
2002/09/14	22:03:46	45.93324027	-129.98230801	1520.231	EVT	99.600	2.550	found a leftover marker
2002/09/14	22:04:03	45.93322834	-129.98230674	1520.639	EVT	96.280	2.110	looks to be N8
2002/09/14	22:09:23	45.93318949	-129.98259559	1518.994	EVT	337.690	3.660	blank-text
2002/09/14	22:09:47	45.93319847	-129.98259950	1519.198	EVT	337.660	3.440	location of Lang sampler deployment site
2002/09/14	22:11:25	45.93323602	-129.98262033	1518.905	EVT	339.510	3.920	this is marker 33
2002/09/14	22:14:51	45.93321427	-129.98220847	1514.419	EVT	157.230	7.400	Lang sampler
2002/09/14	22:15:44	45.93318682	-129.98223535	1514.616	EVT	153.440	6.900	Lang sampler from above
2002/09/14	22:20:09	45.93327313	-129.98258958	1510.544	EVT	297.060	12.390	carrying the Lang sampler to it's actual deployment site
2002/09/14	22:21:37	45.93324957	-129.98258838	1515.826	EVT	299.470	7.010	Lang sampler on the seafloor
2002/09/14	22:22:25	45.93327198	-129.98260697	1516.302	EVT	299.900	5.980	Jason will move the Lang sampler slightly closer
2002/09/14	22:26:45	45.93329958	-129.98264655	1515.941	EVT	234.420	5.680	the Lang sampler is now much closer
2002/09/14	22:27:47	45.93331910	-129.98267614	1515.799	EVT	178.400	5.750	Lang sampler
2002/09/14	22:29:45	45.93329012	-129.98267124	1519.123	EVT	178.590	2.420	pulling out 2 pull pins to release the hose to the Lang sampler
2002/09/14	22:34:05	45.93328687	-129.98267200	1519.218	EVT	177.760	2.270	the hose fell on top of where Jason needs to remove the second pull pin
2002/09/14	22:35:07	45.93328931	-129.98267230	1519.136	EVT	178.110	2.520	removed the funnel connector to the Lang sampler
2002/09/14	22:36:14	45.93323633	-129.98260146	1518.932	EVT	323.860	3.930	cone connector with deployment location on the left and Lang sampler in the background
2002/09/14	22:37:41	45.93321041	-129.98262368	1520.095	EVT	8.800	2.480	Susan is now picking a spot
2002/09/14	22:40:56	45.93322659	-129.98264430	1521.522	EVT	17.420	1.370	lots of baterial floc coming out of marker 33
2002/09/14	22:41:24	45.93322647	-129.98264421	1521.584	EVT	17.420	1.260	spide crab enjoying the flock we have stirred up
2002/09/14	22:45:17	45.93323084	-129.98265835	1520.795	EVT	9.810	2.050	placing the Lang sampler funnel over the crack of Marker 33
2002/09/14	22:45:55	45.93323072	-129.98265867	1520.727	EVT	9.810	2.040	the Lang sampler is venting effluent!
2002/09/14	22:46:48	45.93323040	-129.98265932	1520.897	EVT	9.830	2.040	lang sampler near one of the bac traps
2002/09/14	22:46:53	45.93323034	-129.98265935	1520.849	EVT	9.840	2.050	blank-text
2002/09/14	22:46:56	45.93323034	-129.98265942	1520.693	EVT	9.890	2.050	blank-text
2002/09/14	22:47:03	45.93323026	-129.98265951	1520.782	EVT	9.780	2.050	blank-text
2002/09/14	22:58:54	45.93345403	-129.98265552	1511.869	EVT	353.130	9.620	we are now transiting to Vixen
2002/09/14	23:00:29	45.93364830	-129.98266509	1485.423	EVT	352.760	30.000	Jason will come up about 25m from the bottom for the transit
2002/09/14	23:02:38	45.93351743	-129.98272590	1486.653	EVT	351.960	30.000	Our flight to Vixen will be approximately 2 hours

Event log: LEXEN 2002

Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/14 23:16:07		45.93219498	-129.98288752	1477.529	EVT	351.780	30.000	blank-text
2002/09/14 23:16:21		45.93216109	-129.98289452	1477.685	EVT	351.790	30.000	blank-text
2002/09/14 23:17:16		45.93202172	-129.98293413	1477.556	EVT	352.290	30.000	< ooh, crustacean
2002/09/14 23:19:30		45.93167464	-129.98301320	1477.604	EVT	352.050	30.000	blank-text
2002/09/14 23:21:57		45.93128667	-129.98310329	1477.556	EVT	352.150	30.000	flexing the port arm
2002/09/14 23:23:04		45.93111850	-129.98314114	1477.406	EVT	352.140	30.000	blank-text
2002/09/14 23:23:40		45.93101966	-129.98315275	1477.542	EVT	351.180	30.000	blank-text
2002/09/14 23:24:59		45.93080227	-129.98319497	1477.468	EVT	352.160	30.000	blank-text
2002/09/14 23:25:14		45.93076086	-129.98320327	1477.583	EVT	351.710	30.000	< jellies
2002/09/14 23:29:09		45.93013566	-129.98331799	1465.154	EVT	350.950	30.000	blank-text
2002/09/14 23:35:27		45.92906931	-129.98342924	1463.182	EVT	349.970	30.000	blank-text
2002/09/14 23:35:46		45.92901682	-129.98343541	1463.359	EVT	350.530	30.000	< phantom jelly
2002/09/14 23:42:54		45.92784367	-129.98358543	1463.331	EVT	353.360	30.000	blank-text
2002/09/14 23:45:31		45.92741680	-129.98365276	1463.209	EVT	353.310	30.000	blank-text
2002/09/14 23:45:56		45.92735371	-129.98366644	1463.406	EVT	352.790	30.000	blank-text
2002/09/14 23:46:06		45.92732555	-129.98367761	1463.005	EVT	353.460	30.000	< ctenophore
2002/09/14 23:48:54		45.92687245	-129.98376582	1463.209	EVT	354.640	30.000	blank-text
2002/09/14 23:52:52		45.92625389	-129.98389851	1463.182	EVT	354.950	30.000	blank-text
2002/09/14 23:53:10		45.92620486	-129.98390721	1463.250	EVT	354.730	30.000	< what was that tubular organism?
2002/09/14 23:53:39		45.92613842	-129.98391610	1463.148	EVT	355.350	30.000	blank-text
2002/09/14 23:53:48		45.92611720	-129.98392245	1463.127	EVT	355.660	30.000	jelly
2002/09/14 23:53:54		45.92609771	-129.98392853	1463.114	EVT	355.990	30.000	blank-text
2002/09/15 00:01:59		45.92482675	-129.98426984	1463.257	EVT	0.440	30.000	blank-text
2002/09/15 00:02:12		45.92479548	-129.98428304	1463.229	EVT	0.890	30.000	blank-text
2002/09/15 00:16:35		45.92265334	-129.98540096	1463.134	EVT	18.740	30.000	blank-text
2002/09/15 00:19:13		45.92230347	-129.98573008	1463.345	EVT	23.080	30.000	blank-text
2002/09/15 00:19:15		45.92229925	-129.98573618	1463.297	EVT	23.010	30.000	blank-text
2002/09/15 00:19:21		45.92228539	-129.98574884	1463.229	EVT	22.860	30.000	< jelly
2002/09/15 00:28:52		45.92118576	-129.98719719	1463.331	EVT	35.090	30.000	blank-text
2002/09/15 00:28:54		45.92118195	-129.98720270	1463.161	EVT	35.290	30.000	blank-text
2002/09/15 00:29:02		45.92116780	-129.98722360	1463.223	EVT	35.880	30.000	<ctenophore
2002/09/15 00:30:18		45.92103186	-129.98743704	1463.182	EVT	37.930	30.000	still in transit
2002/09/15 01:04:28		45.91742932	-129.99356546	1497.545	EVT	156.630	30.000	going to slow down and get some fixes
2002/09/15 01:07:50		45.91719295	-129.99321260	1531.019	EVT	157.600	4.610	bottom sighted
2002/09/15 01:08:05		45.91719225	-129.99321430	1530.434	EVT	158.270	5.230	tube worms, bacterial flocs visible
2002/09/15 01:09:16		45.91719184	-129.99321668	1530.665	EVT	154.640	5.080	big bunch of Ridgeia on the bottom
2002/09/15 01:12:41		45.91722085	-129.99315639	1530.597	EVT	56.480	5.090	white sinuous mats'o'monera
2002/09/15 01:13:31		45.91725532	-129.99308562	1531.291	EVT	55.390	4.190	ridge
2002/09/15 01:13:52		45.91726942	-129.99304403	1531.189	EVT	55.510	4.170	lots of diffuse venting on this kind of terrain all
around								
2002/09/15 01:16:46		45.91726938	-129.99296320	1531.739	EVT	251.820	3.440	diffuse venting here

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	01:18:11	45.91725501	-129.99321611	1530.550	EVT	284.720	5.180	big white mound
2002/09/15	01:18:25	45.91727088	-129.99328617	1531.420	EVT	286.880	4.090	blank-text
2002/09/15	01:19:47	45.91722966	-129.99333850	1530.822	EVT	345.300	4.990	very small chimney associated with the mound
2002/09/15	01:20:54	45.91723305	-129.99335570	1530.720	EVT	355.180	5.030	high temperature venting at mound
2002/09/15	01:21:11	45.91723298	-129.99335563	1530.801	EVT	355.190	5.040	intense fluid flow at mound orifice
2002/09/15	01:21:30	45.91723305	-129.99335571	1530.822	EVT	355.160	4.980	blank-text
2002/09/15	01:21:32	45.91723307	-129.99335571	1530.829	EVT	355.140	5.000	blank-text
2002/09/15	01:21:43	45.91723300	-129.99335594	1530.774	EVT	355.140	5.100	blank-text
2002/09/15	01:22:07	45.91724558	-129.99334994	1531.502	EVT	356.080	4.240	that last grab was a shrimp-like crustacean in from of mound
2002/09/15	01:22:33	45.91726914	-129.99334869	1533.751	EVT	355.120	1.920	close look at mound
2002/09/15	01:22:54	45.91727480	-129.99335052	1534.615	EVT	355.430	1.060	Dave: "Temperature is probably around 280 degrees" from the mound
2002/09/15	01:23:12	45.91727666	-129.99335005	1534.737	EVT	353.990	0.930	note polypro tube, indicating that there is a HOBO in the mounsd
2002/09/15	01:23:22	45.91727660	-129.99335032	1534.866	EVT	354.500	0.870	floc flow out of vent
2002/09/15	01:23:42	45.91727522	-129.99335141	1534.921	EVT	354.490	0.910	more of vent flow
2002/09/15	01:25:04	45.91727436	-129.99335077	1534.866	EVT	354.450	0.930	this is probably target 7
2002/09/15	01:25:22	45.91727433	-129.99335082	1534.690	EVT	354.430	0.930	white floc is coming out of holes near the base of this
2002/09/15	01:25:45	45.91727404	-129.99335144	1534.866	EVT	354.700	0.910	probably Vixen Vent target 7
2002/09/15	01:26:17	45.91727386	-129.99335147	1534.819	EVT	354.660	0.920	preparing to ICL probe the vent
2002/09/15	01:27:52	45.91727192	-129.99335212	1534.744	EVT	354.580	0.920	ICL probe in water near vent (2.7 degrees)
2002/09/15	01:28:11	45.91727179	-129.99335212	1534.696	EVT	354.600	0.920	probe in vent fluid
2002/09/15	01:28:36	45.91727114	-129.99335221	1534.758	EVT	354.500	0.930	closeup of ICL (note small chimney behind orifice)
2002/09/15	01:29:14	45.91727095	-129.99335238	1534.853	EVT	354.460	0.950	chunks of rock and floc getting broken off
2002/09/15	01:30:14	45.91727082	-129.99335263	1534.798	EVT	354.440	0.950	maximum temperature: 287 degrees
2002/09/15	01:31:28	45.91727229	-129.99334973	1534.778	EVT	354.550	0.920	going to take a major sample
2002/09/15	01:34:31	45.91726586	-129.99335315	1534.907	EVT	354.390	0.950	using the "one with black tape on the side" (number to be determind)
2002/09/15	01:34:54	45.91726567	-129.99335283	1534.887	EVT	354.410	0.940	ditto
2002/09/15	01:35:47	45.91726546	-129.99335283	1534.887	EVT	354.450	0.920	"you could call this a clear smoker, or a non-smoker"
2002/09/15	01:36:55	45.91726379	-129.99335482	1534.730	EVT	354.420	0.940	major sampling at Vixen Vent
2002/09/15	01:37:32	45.91726325	-129.99335478	1534.744	EVT	354.400	0.940	closeup of vent orifice, with sampler nozzle inserted
2002/09/15	01:38:52	45.91726128	-129.99335506	1534.805	EVT	354.390	0.930	major sampler, target 7
2002/09/15	01:39:09	45.91726120	-129.99335456	1534.832	EVT	354.380	0.930	still sampling
2002/09/15	01:39:14	45.91726132	-129.99335426	1534.853	EVT	354.380	0.930	still sampling
2002/09/15	01:39:20	45.91726150	-129.99335405	1534.853	EVT	354.370	0.930	still sampling
2002/09/15	01:39:55	45.91726305	-129.99335163	1534.819	EVT	354.380	0.930	just saw a burst of floc coming out of the seafloor in the background
2002/09/15	01:40:10	45.91726455	-129.99334958	1534.914	EVT	354.380	0.930	bottle is shimmering
2002/09/15	01:40:41	45.91726674	-129.99334679	1534.778	EVT	354.380	0.940	retracting the sampler, looks like a hot sample

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	01:43:03	45.91726564	-129.99334207	1534.764	EVT	354.440	0.970	next up is a gas tight sample
2002/09/15	01:45:50	45.91726461	-129.99334105	1534.873	EVT	354.570	0.940	holes on the side of this vent puff out bacterial floc at various intervals
2002/09/15	01:46:20	45.91726442	-129.99334104	1534.758	EVT	354.550	0.960	gas tight sampling
2002/09/15	01:48:25	45.91726551	-129.99333944	1534.798	EVT	354.570	0.960	gas tight in flow
2002/09/15	01:48:46	45.91726588	-129.99333887	1534.785	EVT	354.580	0.960	fired gas tight bottl
2002/09/15	01:48:48	45.91726587	-129.99333886	1534.819	EVT	354.570	0.950	I think the chimney at this vent has been damaged by our sampling
2002/09/15	01:49:44	45.91726626	-129.99333770	1534.887	EVT	354.610	0.940	that was the gas tight with red tape on the handle and blue tape on the bottle
2002/09/15	01:51:03	45.91726655	-129.99333841	1534.887	EVT	354.960	0.940	Jason is retracting its drawer
2002/09/15	01:51:28	45.91726635	-129.99333840	1534.893	EVT	355.030	0.870	choice of using fluid sampler to sample the floc on the side or going to the other vent for major sampling and gas tights
2002/09/15	01:53:50	45.91727245	-129.99332941	1534.567	EVT	355.080	1.230	sulphide level is very high
2002/09/15	01:54:22	45.91726865	-129.99339123	1533.541	EVT	354.030	2.630	other mound in distance
2002/09/15	01:55:13	45.91727586	-129.99334180	1532.800	EVT	354.620	2.900	to find the diffuse floc vent look west from Vixen
2002/09/15	01:55:21	45.91728254	-129.99334194	1533.045	EVT	355.220	2.620	Ridgeia at lower right
2002/09/15	01:55:43	45.91729620	-129.99334711	1532.929	EVT	355.520	2.770	Vestimentiferans aplenty by second mound
2002/09/15	01:56:50	45.91731464	-129.99334883	1532.813	EVT	355.210	2.790	chimney at second mound
2002/09/15	01:57:23	45.91731433	-129.99334912	1532.677	EVT	355.300	2.860	no signs of a HOB0 probe at this mound, but it might be behind
2002/09/15	01:57:43	45.91731439	-129.99334916	1532.616	EVT	354.820	2.860	this is probably Casper vent
2002/09/15	01:57:51	45.91731463	-129.99334916	1532.800	EVT	355.260	2.800	fissure of some kind in background
2002/09/15	01:58:37	45.91733670	-129.99335173	1535.050	EVT	355.220	0.870	chimney still intact
2002/09/15	01:59:01	45.91733915	-129.99335141	1534.948	EVT	354.540	0.970	Mukul wants the chimney as a sample
2002/09/15	02:00:32	45.91739885	-129.99336323	1535.152	EVT	354.950	0.840	This is Casper vent
2002/09/15	02:01:53	45.91739767	-129.99336050	1535.145	EVT	354.720	0.890	going to ICL probe Casper, probably resulting in the disintegration of the chimney
2002/09/15	02:02:53	45.91739762	-129.99336109	1535.002	EVT	354.670	0.790	ICL in the ambient water
2002/09/15	02:03:52	45.91739631	-129.99336106	1534.900	EVT	354.670	0.810	3.9 degrees
2002/09/15	02:04:28	45.91741154	-129.99334210	1534.900	EVT	354.810	0.840	not as violent flow as Vixen, "diffused because of the chimney"
2002/09/15	02:04:41	45.91741269	-129.99334073	1534.900	EVT	354.780	0.740	probing the chimney
2002/09/15	02:05:39	45.91741386	-129.99333920	1535.009	EVT	354.790	0.830	starting to destroy the chimney
2002/09/15	02:07:06	45.91741477	-129.99333911	1535.172	EVT	354.690	0.790	maximum temperature of vent flow is 290 with chimney in place
2002/09/15	02:07:15	45.91741442	-129.99333897	1535.070	EVT	354.680	0.770	there goes the chimney!
2002/09/15	02:07:16	45.91741421	-129.99333908	1535.199	EVT	354.680	0.840	chimney destroyed
2002/09/15	02:07:31	45.91741375	-129.99333940	1535.227	EVT	354.660	0.810	the anhydrite beehive is no more
2002/09/15	02:09:16	45.91741248	-129.99334163	1535.288	EVT	354.640	0.760	floc may represent things that are actually living in the mound, not on the basalt

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	02:11:42	45.91740988	-129.99334440	1535.179	EVT	354.730	0.790	major sampling Casper vent (this one has light blue tape on the side)
2002/09/15	02:12:07	45.91740959	-129.99334476	1535.172	EVT	354.750	0.750	jamming sampler into the vent
2002/09/15	02:12:25	45.91740968	-129.99334444	1535.220	EVT	354.700	0.760	major sampling, with Ridgeia in background
2002/09/15	02:12:41	45.91740970	-129.99334466	1535.206	EVT	354.740	0.780	wrecking chimney remnants
2002/09/15	02:13:10	45.91740981	-129.99334399	1535.186	EVT	354.740	1.550	that might actually be sea green tape on this sampler
2002/09/15	02:13:36	45.91741018	-129.99334443	1535.356	EVT	354.780	30.000	venting fluid
2002/09/15	02:14:16	45.91740945	-129.99334620	1535.165	EVT	354.860	0.760	Casper the Friendly Vent...for producing high temperature samples
2002/09/15	02:14:46	45.91740883	-129.99334653	1535.152	EVT	354.860	0.770	That's bottle 21
2002/09/15	02:15:16	45.91740981	-129.99334549	1535.029	EVT	354.840	0.780	shimmering water still coming through the bottle
2002/09/15	02:15:58	45.91741032	-129.99334504	1534.955	EVT	354.760	0.910	side view of sampling
2002/09/15	02:17:04	45.91740996	-129.99333514	1534.792	EVT	354.730	30.000	possible misfire, trying again in the vent
2002/09/15	02:17:59	45.91740894	-129.99333407	1535.084	EVT	354.700	0.760	firing gas tight 21 again
2002/09/15	02:18:32	45.91740774	-129.99333202	1535.050	EVT	354.700	0.850	response is negative
2002/09/15	02:19:11	45.91740767	-129.99333260	1535.077	EVT	354.710	0.810	Number 21 did not work
2002/09/15	02:24:41	45.91738335	-129.99336389	1535.036	EVT	354.740	0.660	going to try another sample because 21 did not work
2002/09/15	02:26:39	45.91738260	-129.99338719	1534.887	EVT	354.870	0.670	this bottle has a red "L" on it: Number 15
2002/09/15	02:27:03	45.91738246	-129.99338937	1534.785	EVT	354.820	0.670	sampling with 15
2002/09/15	02:27:49	45.91738196	-129.99339069	1534.737	EVT	354.770	0.670	"mostly sulfate and anhydride, with some sulphide in there too", says Dave
2002/09/15	02:28:45	45.91738658	-129.99338657	1534.900	EVT	354.810	0.670	firing #15
2002/09/15	02:29:42	45.91739123	-129.99338318	1534.955	EVT	354.750	0.680	no bottle shimmer yet
2002/09/15	02:30:57	45.91737345	-129.99339393	1534.948	EVT	354.800	0.670	done sampling with 15
2002/09/15	02:31:25	45.91736310	-129.99338053	1534.873	EVT	354.830	0.660	doing the other gas tight next
2002/09/15	02:34:43	45.91751197	-129.99336066	1534.968	EVT	354.630	0.670	gas tight at Casper
2002/09/15	02:36:21	45.91751227	-129.99339185	1534.968	EVT	354.790	0.670	gas tight sample at the orifice
2002/09/15	02:37:03	45.91751135	-129.99338916	1534.968	EVT	354.810	0.680	sampling
2002/09/15	02:37:11	45.91751049	-129.99339050	1534.995	EVT	354.810	0.680	sampling
2002/09/15	02:37:45	45.91751442	-129.99339131	1534.975	EVT	354.920	0.670	retracting gas tight (bottle with white tape on the tank)
2002/09/15	02:38:17	45.91751744	-129.99341516	1535.016	EVT	354.910	0.660	that was the last gas tight; and there is one major left
2002/09/15	02:39:20	45.91752197	-129.99341812	1535.063	EVT	354.880	0.660	we are done at Casper; go back to Vixen facing west
								in order to find floc vent
2002/09/15	02:39:56	45.91752388	-129.99342269	1534.927	EVT	355.080	0.730	Jason is retracting its drawer
2002/09/15	02:41:08	45.91750064	-129.99337072	1531.719	EVT	186.300	3.850	"When I start whining send me to bed" said Dave.
2002/09/15	02:46:11	45.91747342	-129.99335656	1533.208	EVT	269.510	2.850	Vixen is up ahead
2002/09/15	02:47:04	45.91747492	-129.99335699	1534.486	EVT	268.890	1.470	looking around the base of Vixen for floc vent
2002/09/15	02:49:12	45.91746869	-129.99336170	1535.029	EVT	272.720	0.740	I am free to log at any time
2002/09/15	02:51:27	45.91746835	-129.99336182	1535.070	EVT	272.770	0.790	reaching for the Butterfield intake
2002/09/15	02:53:20	45.91746569	-129.99336241	1534.982	EVT	272.780	0.800	blank-text

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	02:53:43	45.91746541	-129.99336265	1535.165	EVT	272.760	0.810	we found the diffuse vent that may be spitting out floc
2002/09/15	02:56:37	45.91746349	-129.99335942	1534.961	EVT	272.880	0.850	taking temperature of floc vent
2002/09/15	02:56:45	45.91746331	-129.99335936	1534.941	EVT	272.870	0.840	sticking the Butterfield intake in the diffuse vent
2002/09/15	02:57:28	45.91746150	-129.99336166	1534.955	EVT	272.840	0.860	flush pump is being difficult again: "come on you!" says Dave
2002/09/15	02:58:02	45.91746081	-129.99336226	1534.819	EVT	272.820	0.870	blank-text
2002/09/15	02:58:07	45.91746100	-129.99336182	1534.873	EVT	272.820	0.860	lots of floc now
2002/09/15	02:58:21	45.91746085	-129.99336203	1534.880	EVT	272.760	0.860	intake has now been inserted in "floc vent near Vixen"
2002/09/15	02:59:06	45.91746004	-129.99336161	1534.934	EVT	272.870	0.860	blank-text
2002/09/15	02:59:07	45.91746000	-129.99336165	1534.934	EVT	272.860	0.860	flush pump working again
2002/09/15	02:59:18	45.91745951	-129.99336160	1534.792	EVT	272.850	0.860	floc vent is releasing bubbles
2002/09/15	02:59:39	45.91745927	-129.99336173	1534.785	EVT	272.800	0.860	40.6 is the temperature
2002/09/15	02:59:50	45.91745918	-129.99336154	1534.893	EVT	272.790	0.870	blank-text
2002/09/15	02:59:56	45.91745923	-129.99336124	1534.893	EVT	272.830	0.860	exhaust is clean
2002/09/15	03:00:11	45.91745928	-129.99336101	1534.907	EVT	272.830	0.870	TEMP is up to 41
2002/09/15	03:01:00	45.91745922	-129.99335987	1534.717	EVT	272.800	0.870	floc is coming out of the exhaust
2002/09/15	03:01:32	45.91745912	-129.99335928	1534.839	EVT	272.820	0.870	getting ready to take Sterivex filter #6
2002/09/15	03:03:49	45.91745770	-129.99335768	1534.914	EVT	272.710	0.880	rebooting fluid sampler
2002/09/15	03:06:01	45.91745666	-129.99335585	1534.832	EVT	272.810	0.850	blank-text
2002/09/15	03:06:12	45.91745658	-129.99335607	1534.914	EVT	272.860	0.860	some white stuff on intake
2002/09/15	03:06:37	45.91745611	-129.99335664	1534.968	EVT	272.760	0.870	flush pump on again
2002/09/15	03:08:59	45.91745346	-129.99335780	1534.900	EVT	272.750	0.860	started sterivex #6
2002/09/15	03:11:13	45.91745090	-129.99335939	1534.880	EVT	272.750	0.860	exhaust
2002/09/15	03:11:27	45.91745065	-129.99335946	1534.880	EVT	272.800	0.850	little bit of floc in exhaust
2002/09/15	03:19:53	45.91744667	-129.99334569	1534.737	EVT	273.000	0.840	stopped #6
2002/09/15	03:20:40	45.91744709	-129.99334176	1534.778	EVT	272.960	0.870	#6: max T=41.4 ave T=39.3 vol=1059ml std. dev. 0.9 T2=23
2002/09/15	03:21:59	45.91744862	-129.99333547	1534.676	EVT	273.000	0.850	starting piston #22
2002/09/15	03:28:06	45.91744542	-129.99332840	1534.730	EVT	273.120	0.850	stopped piston #22
2002/09/15	03:28:44	45.91744572	-129.99332648	1534.771	EVT	273.260	0.850	#22: maxT=40.7 aveT=39.9 std dev=0.65 695ml
2002/09/15	03:30:49	45.91744571	-129.99332322	1534.859	EVT	273.230	0.840	starting filtered bag #11
2002/09/15	03:31:38	45.91744661	-129.99331971	1534.778	EVT	273.100	0.850	exhaust
2002/09/15	03:38:13	45.91742708	-129.99330621	1534.656	EVT	273.180	0.850	stopping filtered bag #11
2002/09/15	03:41:16	45.91741970	-129.99329599	1534.574	EVT	273.270	0.850	#11: max T=41.6 ave T=40.2 std. dev.=0.5 vol=782ml
2002/09/15	03:41:51	45.91741859	-129.99329060	1534.696	EVT	273.360	0.850	starting GFF filter 15
2002/09/15	03:49:44	45.91739555	-129.99324109	1534.696	EVT	273.160	0.850	stopping #15
2002/09/15	03:49:56	45.91739380	-129.99324010	1534.622	EVT	273.220	0.840	oops not yet
2002/09/15	03:50:41	45.91738937	-129.99323609	1534.669	EVT	273.250	0.850	blank-text

Event log: LEXEN 2002

Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	03:51:01	45.91738767	-129.99323494	1534.594	EVT	273.180	0.850	blank-text
2002/09/15	03:51:25	45.91738604	-129.99323214	1534.608	EVT	273.150	0.850	blank-text
2002/09/15	03:51:37	45.91738492	-129.99323039	1534.690	EVT	273.140	0.850	blank-text
2002/09/15	03:52:09	45.91738334	-129.99322673	1534.622	EVT	273.230	0.850	stopping #15
2002/09/15	03:52:57	45.91738014	-129.99322173	1534.690	EVT	273.170	0.850	#15:max T=41.0 ave T=40.1 std dev=0.4 vol=1046ml
2002/09/15	03:54:41	45.91737580	-129.99320941	1534.696	EVT	273.160	0.850	starting filter #1
2002/09/15	03:59:11	45.91735643	-129.99319806	1534.615	EVT	273.150	0.840	blank-text
2002/09/15	04:01:27	45.91734882	-129.99319852	1534.567	EVT	273.230	0.830	blank-text
2002/09/15	04:01:38	45.91734850	-129.99319882	1534.574	EVT	273.220	0.840	Matt is stirring things up for filter 1
2002/09/15	04:01:58	45.91734782	-129.99319870	1534.683	EVT	273.310	0.830	sampler temporarily stopped
2002/09/15	04:02:15	45.91734679	-129.99320005	1534.547	EVT	273.280	0.830	blank-text
2002/09/15	04:02:29	45.91734595	-129.99320097	1534.554	EVT	273.120	0.840	restarted sample
2002/09/15	04:02:38	45.91734592	-129.99320136	1534.567	EVT	273.140	0.840	blank-text
2002/09/15	04:02:58	45.91734442	-129.99320000	1534.608	EVT	273.120	0.850	temperature 38.2
2002/09/15	04:05:05	45.91734176	-129.99319352	1534.560	EVT	273.050	0.860	stopped sample
2002/09/15	04:05:59	45.91734146	-129.99319140	1534.601	EVT	273.140	0.850	41.4 avg 38.1 t2 21.2 1124ml
2002/09/15	04:06:21	45.91734092	-129.99319015	1534.520	EVT	273.220	0.860	that was filter 1
2002/09/15	04:08:00	45.91733766	-129.99318912	1534.540	EVT	273.190	0.860	sensor readings background 7.6, reading here is 6.84
2002/09/15	04:08:29	45.91733617	-129.99318929	1534.615	EVT	273.200	0.870	no H2S signal
2002/09/15	04:08:41	45.91733557	-129.99318912	1534.703	EVT	273.210	0.870	stowing probe
2002/09/15	04:09:14	45.91733502	-129.99318900	1534.601	EVT	273.080	0.870	driving a little to the north and head east for Coquile
2002/09/15	04:12:20	45.91733182	-129.99318265	1533.962	EVT	273.010	1.560	leaving floc vent near Vixen
2002/09/15	04:13:19	45.91729171	-129.99329041	1533.887	EVT	3.100	1.630	heading north 10m, then east, there is no nav target
2002/09/15	04:13:30	45.91729203	-129.99329032	1533.955	EVT	2.960	1.470	tube worms, flow
2002/09/15	04:13:36	45.91729192	-129.99329006	1534.132	EVT	2.940	1.470	blank-text
2002/09/15	04:13:39	45.91729198	-129.99329005	1534.003	EVT	2.800	1.570	blank-text
2002/09/15	04:13:56	45.91729203	-129.99329024	1534.017	EVT	2.700	1.460	anemone in tube worms
2002/09/15	04:14:07	45.91729170	-129.99329043	1533.881	EVT	2.870	1.680	blank-text
2002/09/15	04:14:15	45.91729180	-129.99329044	1534.003	EVT	2.400	1.440	blank-text
2002/09/15	04:14:42	45.91729192	-129.99328965	1534.119	EVT	2.850	1.520	tube worms long shot
2002/09/15	04:15:35	45.91738425	-129.99328302	1533.072	EVT	2.760	2.310	looking for MTR, there is a chocolate reward for
	sharp eyes							
2002/09/15	04:16:16	45.91738206	-129.99328461	1533.316	EVT	93.160	2.190	blank-text
2002/09/15	04:16:29	45.91738228	-129.99328377	1533.262	EVT	92.770	2.040	clams
2002/09/15	04:16:44	45.91738188	-129.99328386	1533.439	EVT	93.010	1.970	long shot of clams
2002/09/15	04:17:21	45.91737977	-129.99323994	1533.140	EVT	93.320	2.210	bag city is nav 5 and is the target after Coquile
2002/09/15	04:17:37	45.91738042	-129.99322837	1533.405	EVT	92.860	1.690	blank-text
2002/09/15	04:18:09	45.91737890	-129.99319622	1533.269	EVT	92.810	2.070	lobate flows
2002/09/15	04:18:35	45.91738115	-129.99317362	1533.038	EVT	92.710	2.530	pH back to background 7.6
2002/09/15	04:19:46	45.91737565	-129.99309654	1532.983	EVT	92.590	2.090	we are in the Coquile area
2002/09/15	04:20:05	45.91737511	-129.99307703	1533.119	EVT	92.740	1.880	crab

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	04:20:15	45.91737463	-129.99306613	1533.228	EVT	92.710	1.860	blank-text
2002/09/15	04:20:26	45.91737429	-129.99305517	1533.221	EVT	92.880	1.870	crab has eggs
2002/09/15	04:20:34	45.91737380	-129.99304748	1533.262	EVT	92.790	1.830	blank-text
2002/09/15	04:20:53	45.91737308	-129.99302664	1533.133	EVT	92.770	2.190	blank-text
2002/09/15	04:21:48	45.91737171	-129.99297490	1533.194	EVT	92.700	2.310	lobate flows again, some bacteria
2002/09/15	04:23:07	45.91737164	-129.99297700	1533.187	EVT	92.700	2.230	turning right, heading to 109
2002/09/15	04:24:16	45.91735857	-129.99292985	1533.282	EVT	111.900	2.430	bacterial mat on rocks
2002/09/15	04:26:10	45.91732967	-129.99282766	1533.031	EVT	111.690	1.830	blank-text
2002/09/15	04:26:22	45.91732673	-129.99281651	1533.412	EVT	111.370	1.690	blank-text
2002/09/15	04:26:38	45.91732638	-129.99281551	1533.153	EVT	111.580	1.840	oxidized stain
2002/09/15	04:26:53	45.91732198	-129.99280013	1533.113	EVT	111.880	1.880	blank-text
2002/09/15	04:27:00	45.91732040	-129.99279297	1533.289	EVT	111.860	1.980	blank-text
2002/09/15	04:30:38	45.91726169	-129.99258463	1533.167	EVT	112.050	1.350	blank-text
2002/09/15	04:31:07	45.91725392	-129.99255740	1533.255	EVT	111.810	0.920	lobates
2002/09/15	04:32:16	45.91723577	-129.99249044	1533.235	EVT	111.680	1.480	done searching for MTR, on to nav 5 bag city
2002/09/15	04:33:27	45.91721112	-129.99240358	1532.895	EVT	112.000	1.410	210 m to nav 5
2002/09/15	04:36:45	45.91713886	-129.99214611	1532.868	EVT	111.860	0.990	blank-text
2002/09/15	04:37:38	45.91711717	-129.99206839	1532.582	EVT	112.050	1.290	looks like a contact, two different lavas
2002/09/15	04:38:15	45.91710558	-129.99202740	1532.480	EVT	112.490	1.440	blank-text
2002/09/15	04:40:11	45.91706891	-129.99189668	1531.427	EVT	111.930	2.440	crab
2002/09/15	04:40:32	45.91706084	-129.99186651	1531.427	EVT	111.470	1.450	contact/
2002/09/15	04:40:50	45.91705349	-129.99184110	1531.114	EVT	112.060	1.990	fe staining
2002/09/15	04:41:34	45.91703591	-129.99177819	1531.277	EVT	111.960	1.660	ledge, collapse pit
2002/09/15	04:42:13	45.91701986	-129.99172177	1531.325	EVT	112.030	2.510	more collapses with pillars
2002/09/15	04:42:46	45.91700656	-129.99167395	1531.162	EVT	111.940	1.720	collapse pit
2002/09/15	04:44:13	45.91695940	-129.99150473	1531.277	EVT	111.750	1.640	Fe staining
2002/09/15	04:44:36	45.91694352	-129.99145022	1531.250	EVT	112.070	2.010	darker lava contact
2002/09/15	04:44:53	45.91692963	-129.99140033	1531.243	EVT	112.290	1.820	that was a collapse pit
2002/09/15	04:45:04	45.91692157	-129.99136995	1531.393	EVT	111.940	1.670	not darker lava
2002/09/15	04:45:17	45.91691112	-129.99133464	1531.270	EVT	112.100	1.610	f
2002/09/15	04:45:17	45.91691112	-129.99133464	1531.270	EVT	112.100	1.610	blank-text
2002/09/15	04:45:19	45.91690939	-129.99132847	1531.182	EVT	111.850	1.620	blank-text
2002/09/15	04:45:26	45.91690327	-129.99130712	1531.243	EVT	112.090	1.690	that was a fish
2002/09/15	04:46:08	45.91684344	-129.99115111	1530.815	EVT	120.910	2.130	collapse on both sides
2002/09/15	04:46:44	45.91675104	-129.99120150	1530.638	EVT	121.600	2.430	collapse
2002/09/15	04:48:05	45.91666422	-129.99098668	1531.155	EVT	120.980	4.640	ropy flow
2002/09/15	04:48:42	45.91662130	-129.99088524	1531.318	EVT	120.920	5.150	drop off, now coming on wall
2002/09/15	04:49:22	45.91657932	-129.99078297	1530.529	EVT	121.110	2.550	blank-text
2002/09/15	04:49:26	45.91657574	-129.99077429	1530.788	EVT	121.040	2.310	another collapse pit
2002/09/15	04:49:27	45.91657457	-129.99077154	1530.897	EVT	120.960	2.310	blank-text
2002/09/15	04:49:36	45.91656243	-129.99074351	1530.822	EVT	121.850	2.500	that was another fish

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	04:49:50	45.91654590	-129.99070443	1530.774	EVT	121.020	2.820	scale worm flew by
2002/09/15	04:53:00	45.91643958	-129.99044865	1530.815	EVT	120.820	1.840	fish
2002/09/15	04:53:03	45.91643798	-129.99044484	1530.876	EVT	121.310	1.800	blank-text
2002/09/15	04:54:36	45.91640202	-129.99035729	1530.815	EVT	120.970	1.630	newer lobate over older ones
2002/09/15	04:55:31	45.91637046	-129.99028440	1530.679	EVT	121.200	1.810	over collapse pit
2002/09/15	04:57:15	45.91631361	-129.99014753	1530.638	EVT	121.010	4.160	lava pillar to left
2002/09/15	04:59:06	45.91625182	-129.98999897	1531.128	EVT	121.020	4.720	marker in distance
2002/09/15	04:59:16	45.91624542	-129.98998510	1531.413	EVT	120.990	4.820	blank-text
2002/09/15	04:59:24	45.91624207	-129.98997602	1530.978	EVT	120.640	5.080	marker 65 found
2002/09/15	04:59:33	45.91623689	-129.98996379	1531.366	EVT	120.940	4.700	blank-text
2002/09/15	04:59:37	45.91623437	-129.98995825	1531.502	EVT	121.010	4.450	also benchmark
2002/09/15	04:59:42	45.91623094	-129.98995013	1531.189	EVT	120.860	4.470	bench mark at marker 64
2002/09/15	04:59:53	45.91622584	-129.98993721	1531.141	EVT	120.920	4.580	collapse pit
2002/09/15	05:00:54	45.91619180	-129.98985668	1531.304	EVT	120.360	1.320	bench marks are for precision pressure sensors
2002/09/15	05:01:19	45.91619130	-129.98984064	1531.352	EVT	83.990	1.560	tube wor
2002/09/15	05:01:33	45.91620277	-129.98984589	1531.284	EVT	25.150	1.590	bacterial mats in crevice
2002/09/15	05:01:46	45.91620340	-129.98984453	1531.196	EVT	2.180	1.410	blank-text
2002/09/15	05:01:51	45.91620239	-129.98984397	1531.141	EVT	355.700	1.430	tube worms near bag city
2002/09/15	05:01:58	45.91619983	-129.98984252	1531.223	EVT	347.770	1.260	tube worms
2002/09/15	05:02:09	45.91619389	-129.98983888	1531.094	EVT	337.030	1.540	blank-text
2002/09/15	05:02:23	45.91618729	-129.98982409	1531.413	EVT	325.670	1.440	blank-text
2002/09/15	05:02:56	45.91616663	-129.98977795	1531.100	EVT	139.490	1.570	panning around site
2002/09/15	05:03:10	45.91616925	-129.98976506	1531.420	EVT	112.110	1.400	blank-text
2002/09/15	05:04:36	45.91620229	-129.98972747	1531.087	EVT	11.540	1.750	large set of tube worms in distance
2002/09/15	05:04:51	45.91621839	-129.98972288	1531.481	EVT	11.210	1.110	blank-text
2002/09/15	05:05:51	45.91622325	-129.98971468	1532.195	EVT	11.340	0.910	blank-text
2002/09/15	05:05:52	45.91622292	-129.98971432	1532.202	EVT	11.140	0.890	blank-text
2002/09/15	05:06:32	45.91622174	-129.98971612	1532.229	EVT	11.170	0.740	blank-text
2002/09/15	05:06:39	45.91622202	-129.98971536	1532.229	EVT	11.200	0.860	blank-text
2002/09/15	05:06:47	45.91622235	-129.98971507	1532.181	EVT	11.200	0.860	Fe staining?
2002/09/15	05:06:58	45.91622188	-129.98971546	1532.113	EVT	11.240	0.740	"that's weird" said janet about red thing in prev frame
2002/09/15	05:07:58	45.91622250	-129.98970236	1531.801	EVT	31.060	0.890	blank-text
2002/09/15	05:08:05	45.91622196	-129.98970201	1532.113	EVT	30.990	0.910	this could be a sponge
2002/09/15	05:08:19	45.91622275	-129.98970170	1532.073	EVT	31.210	0.900	blank-text
2002/09/15	05:08:26	45.91622245	-129.98970174	1531.875	EVT	31.090	0.900	that was closeup of worms
2002/09/15	05:08:36	45.91622247	-129.98970164	1531.937	EVT	31.080	0.910	this is bag city and the tube worms are Ridgia
2002/09/15	05:08:41	45.91622278	-129.98970134	1531.909	EVT	31.080	0.910	blank-text
2002/09/15	05:08:47	45.91622290	-129.98970096	1532.066	EVT	31.130	0.950	diffuse flow
2002/09/15	05:08:53	45.91622268	-129.98970088	1532.066	EVT	31.040	0.930	blank-text
2002/09/15	05:09:13	45.91622290	-129.98970074	1531.957	EVT	31.150	0.900	flow, will probably sample here
2002/09/15	05:09:17	45.91622308	-129.98970121	1531.998	EVT	31.120	0.910	blank-text

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	05:09:58	45.91622298	-129.98970263	1531.937	EVT	31.150	0.930	blank-text
2002/09/15	05:10:21	45.91622332	-129.98970226	1531.896	EVT	31.200	0.960	moving out basket
2002/09/15	05:10:50	45.91622505	-129.98969968	1531.821	EVT	31.240	1.070	correction vehicle was moving forward
2002/09/15	05:10:59	45.91622483	-129.98969937	1531.869	EVT	31.230	1.050	blank-text
2002/09/15	05:11:39	45.91622388	-129.98969910	1531.855	EVT	31.300	1.040	it was the basket, not the vehicle
2002/09/15	05:11:53	45.91622318	-129.98969856	1531.801	EVT	31.310	1.070	probe in tube worms
2002/09/15	05:11:58	45.91622290	-129.98969812	1531.814	EVT	31.260	1.060	blank-text
2002/09/15	05:12:02	45.91622270	-129.98969818	1531.882	EVT	31.330	1.060	blank-text
2002/09/15	05:13:00	45.91621962	-129.98970129	1531.862	EVT	31.310	1.060	flush pump on
2002/09/15	05:13:21	45.91621964	-129.98970241	1531.855	EVT	31.360	1.050	2.8 degrees, not in it
2002/09/15	05:13:39	45.91622032	-129.98970209	1531.855	EVT	31.390	1.050	sea sp
2002/09/15	05:13:58	45.91622031	-129.98970182	1531.835	EVT	31.410	1.060	6 and rising
2002/09/15	05:14:10	45.91622070	-129.98970150	1531.773	EVT	31.430	1.070	9 degrees max
2002/09/15	05:14:29	45.91622100	-129.98970146	1531.984	EVT	31.390	1.070	10.7 degrees
2002/09/15	05:15:00	45.91622161	-129.98970300	1531.923	EVT	31.360	1.060	concern about sucking up animals
2002/09/15	05:15:12	45.91622157	-129.98970280	1531.821	EVT	31.340	1.070	t max 11
2002/09/15	05:15:15	45.91622143	-129.98970268	1531.773	EVT	31.370	1.070	blank-text
2002/09/15	05:15:23	45.91622106	-129.98970296	1531.930	EVT	31.410	1.070	fish
2002/09/15	05:15:24	45.91622103	-129.98970279	1531.930	EVT	31.380	1.070	on DVD
2002/09/15	05:15:36	45.91622053	-129.98970297	1531.903	EVT	31.340	1.070	fish in tube worms
2002/09/15	05:15:41	45.91622071	-129.98970324	1531.814	EVT	31.330	1.070	blank-text
2002/09/15	05:15:50	45.91622059	-129.98970365	1531.882	EVT	31.320	1.070	blank-text
2002/09/15	05:15:59	45.91622060	-129.98970391	1531.726	EVT	31.310	1.070	flush pump off, rebooting
2002/09/15	05:16:34	45.91622058	-129.98970357	1531.848	EVT	31.340	1.070	blank-text
2002/09/15	05:17:11	45.91621948	-129.98970310	1531.862	EVT	31.320	1.070	blank-text
2002/09/15	05:18:02	45.91621803	-129.98970434	1531.814	EVT	31.330	1.060	blank-text
2002/09/15	05:19:07	45.91621641	-129.98970379	1531.821	EVT	31.350	1.070	lots of flow
2002/09/15	05:19:21	45.91621660	-129.98970365	1531.753	EVT	31.330	1.070	blank-text
2002/09/15	05:19:21	45.91621660	-129.98970365	1531.753	EVT	31.330	1.070	that is an alternative spot
2002/09/15	05:20:27	45.91621648	-129.98970415	1531.882	EVT	31.350	1.070	blank-text
2002/09/15	05:21:31	45.91621542	-129.98970182	1531.794	EVT	31.310	1.070	flush pump still off
2002/09/15	05:22:08	45.91621570	-129.98969924	1531.794	EVT	31.350	1.080	flush pump on
2002/09/15	05:22:46	45.91621486	-129.98969683	1531.780	EVT	31.350	1.070	blank-text
2002/09/15	05:22:58	45.91621428	-129.98969693	1531.692	EVT	31.370	1.070	picture of alternative site
2002/09/15	05:23:24	45.91621384	-129.98969731	1531.794	EVT	31.380	1.070	7.3 degrees
2002/09/15	05:23:37	45.91621376	-129.98969707	1531.801	EVT	31.310	1.060	8.5 degrees
2002/09/15	05:24:13	45.91621272	-129.98969718	1531.767	EVT	31.360	1.080	9 degrees maximum
2002/09/15	05:24:48	45.91621384	-129.98969929	1531.705	EVT	31.230	1.100	probe moved to alternative site
2002/09/15	05:25:00	45.91621516	-129.98969938	1531.753	EVT	31.360	1.090	blank-text
2002/09/15	05:25:02	45.91621568	-129.98969940	1531.726	EVT	31.330	1.090	sampling among the worms
2002/09/15	05:25:50	45.91621525	-129.98969923	1531.767	EVT	31.240	1.240	14 degrees probe all the way in

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	05:25:59	45.91621491	-129.98969885	1531.814	EVT	31.190	1.220	probe locked in
2002/09/15	05:26:25	45.91621400	-129.98969893	1531.855	EVT	31.180	1.250	exhaust - looks clear
2002/09/15	05:26:27	45.91621411	-129.98969882	1531.753	EVT	31.150	1.240	looking at exhaust for biology stuff, clear
2002/09/15	05:26:43	45.91621407	-129.98969779	1531.780	EVT	31.160	1.260	17.2 degrees and steady
2002/09/15	05:27:08	45.91621447	-129.98969627	1531.733	EVT	31.180	1.230	b9 started
2002/09/15	05:27:17	45.91621512	-129.98969521	1531.787	EVT	31.160	1.240	stopped sample
2002/09/15	05:27:35	45.91621415	-129.98969497	1531.651	EVT	31.150	1.250	arm is stretched to the max
2002/09/15	05:27:53	45.91621315	-129.98969341	1531.753	EVT	31.190	1.230	blank-text
2002/09/15	05:28:22	45.91621243	-129.98969142	1531.712	EVT	31.180	1.240	slacked on lines
2002/09/15	05:28:33	45.91621253	-129.98969046	1531.685	EVT	31.160	1.230	17.5 degrees
2002/09/15	05:28:45	45.91621225	-129.98969028	1531.760	EVT	31.210	1.240	bag 9 started
2002/09/15	05:29:01	45.91621175	-129.98968754	1531.685	EVT	31.210	1.220	this is an unfiltered bag for Sharma
2002/09/15	05:29:35	45.91621096	-129.98968229	1531.807	EVT	31.230	1.220	clear exhaust
2002/09/15	05:30:08	45.91621034	-129.98967866	1531.767	EVT	31.220	1.240	correction, this is an unfiltered bag
2002/09/15	05:30:40	45.91620946	-129.98967523	1531.637	EVT	31.220	1.240	18.2 max
2002/09/15	05:33:29	45.91620779	-129.98966951	1531.665	EVT	31.220	1.190	stopped sample 18.2 max, avg 17.5,
2002/09/15	05:33:49	45.91620733	-129.98966936	1531.814	EVT	31.260	1.230	volume 600 ml, t2 10.1
2002/09/15	05:34:32	45.91620670	-129.98966786	1531.821	EVT	31.250	1.230	starting dna filter 13
2002/09/15	05:40:36	45.91619328	-129.98965578	1531.678	EVT	31.230	1.230	blank-text
2002/09/15	05:40:56	45.91619396	-129.98965566	1531.665	EVT	31.260	1.230	close up of sponge
2002/09/15	05:41:12	45.91619393	-129.98965538	1531.753	EVT	31.260	1.230	that's sponge with a question mark
2002/09/15	05:45:15	45.91618514	-129.98964806	1531.719	EVT	31.340	1.240	sample stopped
2002/09/15	05:45:57	45.91618391	-129.98964725	1531.603	EVT	31.360	1.230	t max 17.7, avg 17.2, t2 10.8. volume 1000ml
2002/09/15	05:46:51	45.91618413	-129.98964630	1531.549	EVT	31.410	1.230	starting p20
2002/09/15	05:50:49	45.91618636	-129.98964466	1531.624	EVT	31.350	1.240	this is an unfiltered piston
2002/09/15	05:52:54	45.91618875	-129.98964757	1531.590	EVT	31.320	1.240	stopped sample p20
2002/09/15	05:53:23	45.91618754	-129.98964749	1531.617	EVT	31.340	1.190	18.3 max 17.8 avg 10.7 t2 700 ml
2002/09/15	05:53:38	45.91618695	-129.98964725	1531.617	EVT	31.390	1.210	we are done fluid sampling here
2002/09/15	05:53:55	45.91618685	-129.98964761	1531.536	EVT	31.310	1.240	blank-text
2002/09/15	05:53:56	45.91618690	-129.98964774	1531.576	EVT	31.320	1.190	blank-text
2002/09/15	05:54:32	45.91618663	-129.98964953	1531.542	EVT	31.430	1.170	extending the basket
2002/09/15	05:55:18	45.91618671	-129.98964952	1531.644	EVT	31.340	1.160	stowed nozzle
2002/09/15	05:56:09	45.91618578	-129.98965028	1531.671	EVT	31.350	1.160	bio box
2002/09/15	05:56:36	45.91618548	-129.98965034	1531.617	EVT	31.380	1.210	We will be grabbing some tube worms.
2002/09/15	05:57:07	45.91618594	-129.98964961	1531.576	EVT	31.250	1.160	box open
2002/09/15	05:57:44	45.91618597	-129.98964912	1531.563	EVT	31.540	1.170	blank-text
2002/09/15	05:57:47	45.91618581	-129.98964885	1531.590	EVT	31.560	1.220	blank-text
2002/09/15	05:57:56	45.91618547	-129.98964869	1531.610	EVT	31.700	1.240	blank-text
2002/09/15	05:58:08	45.91618512	-129.98964797	1531.461	EVT	31.300	1.200	tube worms in box
2002/09/15	05:58:24	45.91618461	-129.98964831	1531.658	EVT	31.580	1.210	first grab by jason 2
2002/09/15	05:58:28	45.91618455	-129.98964863	1531.637	EVT	31.480	1.240	blank-text

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	05:59:01	45.91618583	-129.98964711	1531.461	EVT	31.450	1.180	going for the red thing
2002/09/15	05:59:20	45.91618675	-129.98964486	1531.617	EVT	30.830	1.120	blank-text
2002/09/15	05:59:57	45.91618690	-129.98964477	1531.481	EVT	30.950	1.170	blank-text
2002/09/15	06:00:03	45.91618707	-129.98964507	1531.542	EVT	31.020	1.180	blank-text
2002/09/15	06:00:09	45.91618693	-129.98964515	1531.569	EVT	30.990	1.160	blank-text
2002/09/15	06:00:15	45.91618678	-129.98964505	1531.569	EVT	31.000	1.160	blank-text
2002/09/15	06:00:20	45.91618676	-129.98964500	1531.522	EVT	30.770	1.170	blank-text
2002/09/15	06:00:22	45.91618668	-129.98964506	1531.488	EVT	30.840	1.190	blank-text
2002/09/15	06:00:49	45.91618681	-129.98964509	1531.474	EVT	30.960	1.180	red stuff is coming off
2002/09/15	06:00:53	45.91618674	-129.98964500	1531.549	EVT	30.950	1.180	blank-text
2002/09/15	06:01:09	45.91618694	-129.98964406	1531.536	EVT	30.950	1.220	at box
2002/09/15	06:01:15	45.91618694	-129.98964378	1531.549	EVT	30.940	1.180	blank-text
2002/09/15	06:01:17	45.91618690	-129.98964410	1531.542	EVT	30.960	1.240	blank-text
2002/09/15	06:01:25	45.91618688	-129.98964498	1531.468	EVT	31.010	1.220	blank-text
2002/09/15	06:01:28	45.91618687	-129.98964497	1531.488	EVT	30.830	1.200	blank-text
2002/09/15	06:02:04	45.91618577	-129.98964661	1531.597	EVT	30.550	1.140	blank-text
2002/09/15	06:02:31	45.91618546	-129.98964635	1531.468	EVT	30.890	1.160	we got the red sponge in there to determine what it is
2002/09/15	06:02:37	45.91618526	-129.98964634	1531.603	EVT	30.820	1.130	blank-text
2002/09/15	06:02:48	45.91618568	-129.98964606	1531.522	EVT	30.730	1.140	blank-text
2002/09/15	06:03:05	45.91618547	-129.98964647	1531.522	EVT	31.010	1.110	more, more , more
2002/09/15	06:03:27	45.91618536	-129.98964803	1531.536	EVT	30.970	1.120	blank-text
2002/09/15	06:05:00	45.91618408	-129.98965225	1531.563	EVT	30.920	1.040	blank-text
2002/09/15	06:05:19	45.91618319	-129.98965256	1531.461	EVT	30.820	1.100	the door is closed
2002/09/15	06:05:55	45.91618273	-129.98965363	1531.610	EVT	30.880	1.100	locking box
2002/09/15	06:06:42	45.91618126	-129.98965427	1531.536	EVT	30.890	1.070	bio box is on the swing arm of Jason
2002/09/15	06:08:01	45.91618133	-129.98965650	1531.583	EVT	30.870	1.010	blank-text
2002/09/15	06:08:11	45.91618124	-129.98965656	1531.590	EVT	30.850	1.010	blank-text
2002/09/15	06:08:12	45.91618109	-129.98965657	1531.563	EVT	30.860	1.010	close up of red
2002/09/15	06:08:16	45.91618116	-129.98965678	1531.549	EVT	30.860	1.010	blank-text
2002/09/15	06:08:36	45.91618109	-129.98965705	1531.597	EVT	30.890	1.000	bacterial?
2002/09/15	06:08:44	45.91618107	-129.98965684	1531.644	EVT	30.830	1.010	blank-text
2002/09/15	06:09:52	45.91616716	-129.98965528	1529.292	EVT	29.940	3.020	next target is mkr 113
2002/09/15	06:11:20	45.91614445	-129.98965805	1529.632	EVT	45.430	2.810	mkr 113 is 700 m bearing 7 degrees
2002/09/15	06:11:55	45.91613055	-129.98966584	1529.537	EVT	343.460	3.000	45 minutes to marker 113
2002/09/15	06:12:14	45.91611973	-129.98966255	1529.693	EVT	358.800	3.020	blank-text
2002/09/15	06:12:19	45.91611741	-129.98966168	1529.517	EVT	2.170	3.110	blank-text
2002/09/15	06:12:19	45.91611687	-129.98966132	1529.489	EVT	1.920	3.130	blank-text
2002/09/15	06:12:20	45.91611625	-129.98966059	1529.401	EVT	2.040	3.130	blank-text
2002/09/15	06:12:22	45.91611554	-129.98966032	1529.483	EVT	2.000	3.150	blank-text
2002/09/15	06:13:32	45.91611224	-129.98964018	1529.585	EVT	6.420	2.830	nav 15 is marker 113
2002/09/15	06:13:51	45.91616390	-129.98962292	1529.666	EVT	6.560	2.870	blank-text

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15 06:14:30		45.91625202	-129.98958677	1529.184	EVT	6.380	3.170	marker 15
2002/09/15 06:14:35		45.91625160	-129.98958764	1529.353	EVT	6.780	2.930	blank-text
2002/09/15 06:14:58		45.91624923	-129.98958837	1529.462	EVT	6.220	2.970	marker 36
2002/09/15 06:15:44		45.91624930	-129.98958888	1529.435	EVT	6.760	2.950	there is also a marker 15
2002/09/15 06:15:52		45.91624897	-129.98958945	1529.333	EVT	5.990	3.130	bag city vent
2002/09/15 06:16:07		45.91624235	-129.98958986	1529.455	EVT	6.380	3.020	time lapse camera was on this site
2002/09/15 06:16:27		45.91627008	-129.98958053	1529.591	EVT	6.800	2.770	that was the platform we saw
2002/09/15 06:17:14		45.91636654	-129.98951507	1529.571	EVT	6.990	3.000	out of the tube worms
2002/09/15 06:17:34		45.91637322	-129.98952839	1529.571	EVT	288.060	4.760	blank-text
2002/09/15 06:18:00		45.91639348	-129.98963987	1530.074	EVT	289.990	2.320	collapse pit
2002/09/15 06:18:30		45.91644496	-129.98973480	1528.184	EVT	321.940	3.880	drop off
2002/09/15 06:19:37		45.91654982	-129.98979886	1528.042	EVT	7.280	3.390	we are stopped, heading will be 7.5 degrees
2002/09/15 06:19:57		45.91660879	-129.98977599	1528.225	EVT	7.910	3.280	collapse pit
2002/09/15 06:21:13		45.91678071	-129.98967370	1528.415	EVT	8.690	3.620	lava pillar
2002/09/15 06:33:59		45.91820089	-129.98938141	1528.048	EVT	8.840	6.680	blank-text
2002/09/15 06:35:13		45.91821374	-129.98933497	1528.266	EVT	63.760	6.270	blank-text
2002/09/15 06:36:01		45.91824738	-129.98932492	1527.817	EVT	329.520	6.260	blank-text
2002/09/15 06:40:40		45.91899055	-129.98940936	1527.035	EVT	6.410	6.690	crab
2002/09/15 06:40:47		45.91898930	-129.98940996	1527.600	EVT	6.440	6.170	blank-text
2002/09/15 07:04:04		45.91795060	-130.02480616	1518.797	EVT	6.340	3.320	worms
2002/09/15 07:21:56		45.92259961	-129.98855709	1518.613	EVT	281.740	4.960	worm clumps
2002/09/15 07:22:09		45.92261698	-129.98854490	1518.797	EVT	287.570	4.890	tube worms - look dead
2002/09/15 07:23:40		45.92269730	-129.98868943	1520.346	EVT	10.060	3.330	worms living on a pillar sticking out
2002/09/15 07:24:19		45.92271347	-129.98869072	1520.272	EVT	6.140	3.450	blank-text
2002/09/15 07:26:36		45.92270953	-129.98861100	1520.122	EVT	311.670	3.830	blank-text
2002/09/15 07:26:47		45.92271382	-129.98863508	1520.306	EVT	310.470	3.530	blank-text
2002/09/15 07:26:53		45.92271641	-129.98863855	1520.312	EVT	311.570	3.670	blank-text
2002/09/15 07:27:01		45.92271783	-129.98863706	1519.932	EVT	311.580	3.870	blank-text
2002/09/15 07:27:12		45.92271700	-129.98863521	1520.462	EVT	311.750	3.510	that may be a covered marker
2002/09/15 07:27:32		45.92272272	-129.98864405	1520.421	EVT	311.720	3.340	pillar
2002/09/15 07:29:12		45.92273421	-129.98866769	1520.829	EVT	312.000	2.690	sitting Jason down on the sea floor
2002/09/15 07:33:58		45.92273396	-129.98866682	1520.815	EVT	311.280	2.560	started the pump on the Butterfield sampler
2002/09/15 07:34:26		45.92273385	-129.98866662	1520.748	EVT	311.320	2.590	temperature reading climbing
2002/09/15 07:35:03		45.92273381	-129.98866618	1520.700	EVT	311.380	2.590	we cannot tell what that is
2002/09/15 07:35:34		45.92273374	-129.98866604	1520.849	EVT	311.320	2.590	close up of Butterfield sampler intake
2002/09/15 07:35:42		45.92273374	-129.98866598	1520.720	EVT	311.300	2.590	temperature at 17 degrees
2002/09/15 07:36:21		45.92273342	-129.98866546	1520.849	EVT	311.220	2.580	moved intake to a different location
2002/09/15 07:36:40		45.92273320	-129.98866537	1520.863	EVT	311.170	2.580	we will take a sample here
2002/09/15 07:37:33		45.92273294	-129.98866518	1520.795	EVT	311.170	2.580	starting bag number 19
2002/09/15 07:43:52		45.92273171	-129.98866355	1520.788	EVT	311.140	2.590	stopping sample 19
2002/09/15 07:44:26		45.92273166	-129.98866355	1520.890	EVT	311.310	2.560	max 18.2 avg 17.9 vol 625

Event log: LEXEN 2002

Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	07:45:27	45.92273145	-129.98866338	1520.727	EVT	311.310	2.560	we will now transit to Castle
2002/09/15	08:06:06	45.92261018	-129.98667647	1520.897	EVT	93.930	2.810	large wall to the right
2002/09/15	09:01:43	45.92616084	-129.98075093	1512.046	EVT	325.380	6.980	Castle vent in view
2002/09/15	09:02:04	45.92617490	-129.98076461	1511.604	EVT	314.280	7.480	Anhydrite chimney
2002/09/15	09:03:04	45.92618046	-129.98077216	1514.521	EVT	314.860	4.730	castle
2002/09/15	09:03:43	45.92618054	-129.98077133	1513.657	EVT	314.810	5.400	castle vent
2002/09/15	09:04:36	45.92615931	-129.98003457	1514.745	EVT	291.150	4.090	castle vent and tripod in view
2002/09/15	09:05:01	45.92615884	-129.98003431	1514.772	EVT	291.170	4.070	anhydrite chimney of castle
2002/09/15	09:06:51	45.92616079	-129.98004064	1515.527	EVT	291.030	3.260	Determining where we want to sit down to sample
2002/09/15	09:07:09	45.92616042	-129.98004040	1515.656	EVT	291.000	3.250	blank-text
2002/09/15	09:14:49	45.92617002	-129.98008891	1516.213	EVT	66.130	2.550	blank-text
2002/09/15	09:14:52	45.92617001	-129.98008891	1516.261	EVT	66.130	2.590	castle
2002/09/15	09:14:59	45.92617005	-129.98008852	1516.308	EVT	66.190	2.590	blank-text
2002/09/15	09:16:48	45.92616593	-129.98008892	1516.220	EVT	66.070	2.570	Getting ready to take an ICL at Castle
2002/09/15	09:20:10	45.92616711	-129.98008799	1516.166	EVT	65.940	2.570	Picking up the ICL
2002/09/15	09:22:58	45.92616675	-129.98009034	1516.125	EVT	66.040	2.700	Temperature is going up- 199
2002/09/15	09:23:28	45.92616648	-129.98009037	1516.240	EVT	66.140	2.640	Knocking over the anhydrite chimney with the ICL
2002/09/15	09:24:31	45.92616206	-129.98009313	1516.071	EVT	66.560	2.560	blank-text
2002/09/15	09:25:57	45.92616122	-129.98009438	1516.098	EVT	66.140	2.690	244 deg C max so far
2002/09/15	09:28:10	45.92615859	-129.98009600	1516.104	EVT	66.070	2.640	We're going to call Castle 246 deg C
2002/09/15	09:28:26	45.92615747	-129.98009651	1516.254	EVT	65.980	2.620	Don't want to disturb the HOBO there
2002/09/15	09:30:10	45.92615167	-129.98009941	1516.166	EVT	65.890	2.570	Done with ICL, storing it away
2002/09/15	09:32:09	45.92615248	-129.98009899	1516.240	EVT	65.870	2.620	ICL has been put away
2002/09/15	09:32:20	45.92615256	-129.98009896	1516.118	EVT	65.930	2.600	We're going to take a major sampler here
2002/09/15	09:34:29	45.92615658	-129.98009867	1516.159	EVT	66.190	2.500	Taking out the major samler
2002/09/15	09:35:52	45.92615639	-129.98010063	1516.186	EVT	66.280	2.530	It has blue tape on the handle
2002/09/15	09:36:20	45.92615692	-129.98010008	1516.138	EVT	66.070	2.600	Pulling on the bungee- Jason won
2002/09/15	09:41:23	45.92617292	-129.98009355	1516.172	EVT	66.170	2.580	Major sampler is #11 at Castle
2002/09/15	09:41:41	45.92617311	-129.98009349	1516.234	EVT	66.150	2.620	Inserting nozzle of major sampler into Castle Vent
2002/09/15	09:41:44	45.92617355	-129.98009332	1516.295	EVT	66.130	2.620	Major at
2002/09/15	09:41:51	45.92617368	-129.98009331	1516.125	EVT	66.120	2.630	Major at Castle
2002/09/15	09:42:10	45.92617480	-129.98009318	1516.159	EVT	66.130	2.610	Major at Castle
2002/09/15	09:42:38	45.92617686	-129.98009278	1516.206	EVT	66.180	2.570	Major at Castle
2002/09/15	09:43:37	45.92617974	-129.98009208	1516.179	EVT	66.130	2.610	Major at Castle
2002/09/15	09:44:02	45.92617972	-129.98009205	1516.104	EVT	66.110	2.620	Hot fluid coming out of exhaust of major
2002/09/15	09:45:01	45.92617846	-129.98009350	1516.179	EVT	66.080	2.620	We are taking the major sampler at Castle
2002/09/15	09:47:07	45.92617425	-129.98009534	1516.261	EVT	66.130	2.620	Trying again because the exhaust stopped
2002/09/15	09:49:31	45.92616931	-129.98009789	1516.152	EVT	66.110	2.630	Major sampler at Castle is complete
2002/09/15	09:49:59	45.92617040	-129.98009777	1516.057	EVT	66.160	2.630	It looks like the major sampler is not working after
	all							
2002/09/15	09:50:13	45.92617079	-129.98009762	1516.152	EVT	66.140	2.630	We're giving up

Event log: LEXEN 2002

Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	09:52:34	45.92617421	-129.98009512	1516.166	EVT	66.150	2.580	We are done with trying to sample at Castle
2002/09/15	09:54:59	45.92618308	-129.98009240	1516.125	EVT	66.210	2.510	Moving 20m west to Village vent
2002/09/15	09:56:56	45.92613709	-129.98037516	1513.773	EVT	282.270	4.410	Some white stuff in the distance- Village
2002/09/15	09:58:22	45.92614093	-129.98047511	1516.716	EVT	282.210	1.750	Lots of tube worms, shimmery flow, and limpets
2002/09/15	09:59:21	45.92618884	-129.98050648	1516.546	EVT	171.680	4.070	Looking for a good place to sample
2002/09/15	09:59:54	45.92618853	-129.98051774	1516.669	EVT	142.050	4.110	Lots of shimmery flow and limpets
2002/09/15	10:00:06	45.92618811	-129.98051780	1516.737	EVT	141.750	4.030	Sulfide worms
2002/09/15	10:01:21	45.92618518	-129.98052171	1517.695	EVT	141.600	3.040	Preparing to sit down at the Village to fluid sample
2002/09/15	10:03:40	45.92618576	-129.98052141	1517.559	EVT	141.490	3.160	Picking up the fluid sampler intake
2002/09/15	10:05:01	45.92618206	-129.98051556	1518.715	EVT	142.110	1.830	Sitting down to sample
2002/09/15	10:06:01	45.92618170	-129.98051651	1518.776	EVT	140.730	1.820	Putting fluid sampler intake in shimmery flow among limpets and sulfide worms
2002/09/15	10:06:26	45.92618194	-129.98051692	1518.722	EVT	140.720	1.820	Poking around a bit looking for temperature- 16 so far
2002/09/15	10:06:54	45.92618175	-129.98051746	1518.756	EVT	140.160	1.860	Max temp 25 so far
2002/09/15	10:07:02	45.92618165	-129.98051750	1518.817	EVT	140.230	1.860	Locking in the fluid sampler
2002/09/15	10:08:44	45.92618063	-129.98051733	1518.810	EVT	140.310	1.870	Waiting for temperature to stabilize here- in the low 30's right now
2002/09/15	10:09:14	45.92617998	-129.98051691	1518.688	EVT	140.330	1.870	Starting filtered Bag #17
2002/09/15	10:09:48	45.92617984	-129.98051672	1518.797	EVT	140.300	1.870	Stopping filtered by # 17; Tmax=, Tave=, T2=, Vol=
2002/09/15	10:12:13	45.92617793	-129.98051361	1518.824	EVT	140.380	1.860	Ignore above
2002/09/15	10:17:19	45.92617518	-129.98051039	1518.769	EVT	140.460	1.860	Stopping Bag #17; Tmax=35.9, Tave=31.1, Vol=613 ml
2002/09/15	10:17:57	45.92617478	-129.98051001	1518.654	EVT	140.420	1.860	Starting unfiltered Bag #18
2002/09/15	10:23:58	45.92617081	-129.98049992	1518.776	EVT	140.360	1.860	Stopping bag #18; Tmax=36.2, Tave=31.1, Vol=615
2002/09/15	10:25:35	45.92617040	-129.98049691	1518.790	EVT	140.320	1.860	Starting GFF Filter #7
2002/09/15	10:35:34	45.92095984	-129.98825027	1518.932	EVT	140.270	1.850	Stopping GFF #7; Tmax=37.9, Tave=31.3, Vol=1019 ml
2002/09/15	10:36:16	45.92095968	-129.98825036	1518.797	EVT	140.310	1.850	Starting Sterivex Filter #12
2002/09/15	10:47:57	45.92616082	-129.98040024	1518.844	EVT	140.380	1.850	Stopping Filter #12; Tmax=35.9, Tave=30.7, Vol=1063 std dev=2
2002/09/15	10:50:54	45.92616385	-129.98040260	1518.919	EVT	140.400	1.830	placing the Butterfield intake elsewhere
2002/09/15	10:51:07	45.92616388	-129.98040279	1518.926	EVT	140.400	1.830	13 degrees and going down
2002/09/15	10:51:39	45.92616392	-129.98040312	1518.871	EVT	140.020	1.830	5 degrees C
2002/09/15	10:52:26	45.92616464	-129.98040343	1518.892	EVT	140.530	1.840	displacing some limpets abd bacterial mat with the Butterfield intake
2002/09/15	10:53:03	45.92616531	-129.98040328	1518.803	EVT	140.580	1.820	cancelling Butterfield intake plan and looking for some rocks
2002/09/15	10:54:53	45.92616698	-129.98040533	1518.824	EVT	140.640	1.870	replacing the Butterfield intake
2002/09/15	10:56:05	45.92616735	-129.98040487	1518.878	EVT	140.440	1.880	looking for some rocks to grab
2002/09/15	10:56:25	45.92616701	-129.98040334	1518.871	EVT	140.890	1.850	picking up a rock!

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	10:56:39	45.92616725	-129.98040327	1518.905	EVT	140.640	1.850	likely to be a piece of pillow basalt
2002/09/15	10:57:44	45.92616732	-129.98040359	1519.014	EVT	140.170	1.800	stowing the piece of rock (with bacterial mat on it) in Jason's drawer
2002/09/15	10:58:46	45.92616731	-129.98040392	1519.028	EVT	140.230	1.800	we are realizing that this is an awfully big rock
2002/09/15	10:59:48	45.92616806	-129.98040391	1518.953	EVT	140.270	1.790	we are putting marker 44 here
2002/09/15	11:02:32	45.92616775	-129.98040429	1518.953	EVT	140.800	1.830	marker 44 successfully deployed here
2002/09/15	11:02:53	45.92616750	-129.98040458	1518.905	EVT	140.500	1.830	now we're looking for a white (altered; "well-cooked") rock
2002/09/15	11:04:26	45.92616691	-129.98040537	1518.912	EVT	139.600	1.810	trying to pick up one of those white rocks
2002/09/15	11:04:47	45.92616661	-129.98040531	1518.912	EVT	140.740	1.820	displacing a lot of limpets and bacteria in the process
2002/09/15	11:05:05	45.92616656	-129.98040544	1518.912	EVT	140.850	1.820	have we stimulated the venting?
2002/09/15	11:06:20	45.92616700	-129.98040519	1519.007	EVT	141.490	1.820	we seem to be loosening a big white rock and smaller one to the left
2002/09/15	11:06:39	45.92616750	-129.98040538	1519.000	EVT	140.740	1.840	got the big white rock!
2002/09/15	11:07:56	45.92617002	-129.98040560	1519.007	EVT	140.680	1.780	deciding whether to keep the big rock; lots of limpets attached to it
2002/09/15	11:09:32	45.92617855	-129.98041803	1517.994	EVT	141.550	2.770	Jason is coming up; so we are keeping the rock
2002/09/15	11:10:41	45.92617918	-129.98041818	1517.892	EVT	141.910	2.890	stowing the big white rock
2002/09/15	11:13:20	45.92617915	-129.98041778	1517.967	EVT	141.690	2.910	if there's room on the tether we are going to drive to the west
2002/09/15	11:13:52	45.92617891	-129.98041810	1517.865	EVT	141.760	2.940	we are looking for other venting locations in this area
2002/09/15	11:14:34	45.92619498	-129.98042662	1517.947	EVT	42.500	2.420	we are above sheet flow
2002/09/15	11:15:40	45.92618277	-129.98048952	1517.926	EVT	254.460	2.890	broken off pillar
2002/09/15	11:16:55	45.92618403	-129.98050238	1518.436	EVT	256.140	2.160	zooming in on a potential vent
2002/09/15	11:17:06	45.92618404	-129.98050220	1518.674	EVT	256.020	1.950	lots of limpets here
2002/09/15	11:17:56	45.92618080	-129.98050237	1518.518	EVT	255.980	1.940	lots of bacterial floc here
2002/09/15	11:18:41	45.92618111	-129.98050219	1518.633	EVT	255.910	1.890	really healthy looking tube worms here
2002/09/15	11:21:55	45.92618344	-129.98048986	1518.450	EVT	256.240	2.370	we are planning to take one Butterfield sample here
2002/09/15	11:22:05	45.92618320	-129.98048957	1518.497	EVT	255.950	2.200	we are poking around to see what temperatures we get
2002/09/15	11:23:59	45.92618365	-129.98050450	1518.790	EVT	256.140	1.920	zooming in on a tube worm bush
2002/09/15	11:25:09	45.92618452	-129.98050875	1518.667	EVT	256.840	1.980	placing the Butterfield intake in a place that looks like it may be venting
2002/09/15	11:26:04	45.92618231	-129.98050964	1518.708	EVT	256.760	1.970	3.2 is the temperature
2002/09/15	11:26:40	45.92618213	-129.98051107	1518.763	EVT	256.850	1.920	however the temp may not be right because the sampler is not responding
2002/09/15	11:27:41	45.92618113	-129.98050965	1518.681	EVT	256.790	1.930	nothing is coming out of the exhaust
2002/09/15	11:28:14	45.92617979	-129.98050639	1518.729	EVT	256.750	1.960	water is now coming out of the exhaust
2002/09/15	11:28:51	45.92617869	-129.98050394	1518.830	EVT	256.820	1.950	lots of particulate smoky water coming out of the exhaust now

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	11:29:19	45.92617795	-129.98050216	1518.756	EVT	256.790	1.960	no temperature anomaly according to the Butterfield sampler
2002/09/15	11:29:57	45.92617638	-129.98049856	1518.735	EVT	256.800	1.960	zoomed in on the intake
2002/09/15	11:30:31	45.92617661	-129.98049912	1518.790	EVT	256.700	1.990	moving the intake around in order to find a temperature anomaly
2002/09/15	11:31:04	45.92617712	-129.98049979	1518.729	EVT	256.750	2.000	doesn't look like the intake is damaged at all
2002/09/15	11:32:09	45.92617826	-129.98050109	1518.722	EVT	256.700	1.990	there is exhaust coming out
2002/09/15	11:33:39	45.92617887	-129.98050068	1518.695	EVT	256.710	1.990	zoomed in on the source of shimmering
2002/09/15	11:34:04	45.92617917	-129.98050107	1518.681	EVT	256.710	1.990	repositioning the intake
2002/09/15	11:34:53	45.92617902	-129.98050100	1518.790	EVT	256.780	2.000	we haven't seen any palm worms: they are usually hanging out where it's hot
2002/09/15	11:36:07	45.92618048	-129.98050494	1518.763	EVT	256.690	1.980	maybe there's just not enough flow here concludes Dave
2002/09/15	11:36:58	45.92618083	-129.98049880	1517.974	EVT	256.220	2.850	a burst of floc coming out as we leave the site
2002/09/15	11:38:32	45.92618065	-129.98049845	1517.777	EVT	256.240	2.780	we are going to look around here to see if there are any other vents
2002/09/15	11:39:59	45.92618693	-129.98048870	1518.219	EVT	293.960	2.670	nice view from above
2002/09/15	11:41:08	45.92618603	-129.98048938	1518.314	EVT	303.900	2.750	pillar in background
2002/09/15	11:41:30	45.92619333	-129.98048128	1518.259	EVT	323.210	2.730	better view of the pillar; we are going to check out the pillar for venting
2002/09/15	11:43:05	45.92619509	-129.98043743	1518.164	EVT	156.740	2.720	there's marker 44
2002/09/15	11:43:57	45.92619305	-129.98045919	1518.429	EVT	169.090	2.410	stowing the Butterfield intake
2002/09/15	11:47:31	45.92619598	-129.98037817	1518.531	EVT	86.380	2.610	next we are going to recover a tripod from Castle
2002/09/15	11:49:43	45.92620191	-129.98019600	1514.888	EVT	86.720	3.820	transiting towards Castle
2002/09/15	11:52:32	45.92614426	-129.98003725	1515.302	EVT	99.440	2.540	Approaching Castle
2002/09/15	11:53:44	45.92613678	-129.97999212	1513.929	EVT	81.050	5.270	Castle
2002/09/15	11:54:18	45.92612960	-129.97996274	1514.024	EVT	21.190	4.970	there's the tripod... going to pick it up
2002/09/15	12:02:16	45.92615254	-129.97996998	1517.077	EVT	21.710	2.190	heading in toward tripod
2002/09/15	12:02:31	45.92615255	-129.97997027	1517.274	EVT	22.570	2.050	shot of the HOBO
2002/09/15	12:03:36	45.92615411	-129.97997123	1517.165	EVT	22.160	2.030	tripod grabbed
2002/09/15	12:04:56	45.92615108	-129.97997422	1516.696	EVT	22.120	2.630	going to head toward marker 33 now
2002/09/15	12:05:57	45.92615539	-129.98000387	1515.486	EVT	284.510	2.900	off to marker 33 now... transit is about 1 hour
2002/09/15	12:15:46	45.92605252	-129.98041132	1484.845	EVT	211.120	30.000	changing tapes
2002/09/15	12:17:14	45.92616710	-129.98039808	1478.821	EVT	202.790	30.000	all tapes changed
2002/09/15	13:02:04	45.93195706	-129.98021680	1478.895	EVT	184.980	30.000	we've arrived at the marker 33 area... now descending to find the vent
2002/09/15	13:02:23	45.93198308	-129.98020689	1478.868	EVT	185.470	30.000	well... not quite yet but soon
2002/09/15	13:11:32	45.93345217	-129.98210105	1517.104	EVT	206.090	3.870	logger test
2002/09/15	13:15:25	45.93343623	-129.98215430	1520.353	EVT	182.660	0.890	other computer is down for the moment
2002/09/15	13:15:45	45.93343925	-129.98215311	1520.346	EVT	182.810	0.930	putting the cone down by marker 33 for now while we sample stuff

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	13:24:14	45.93330190	-129.98207860	1518.599	EVT	307.890	3.670	we are going to move out of the way to wait for the elevator to come down
2002/09/15	13:39:52	45.93305629	-129.98147849	1517.777	EVT	120.190	4.310	blank-text
2002/09/15	13:40:05	45.93305051	-129.98146662	1517.988	EVT	120.720	4.380	lava pillar
2002/09/15	13:40:39	45.93304714	-129.98145637	1517.641	EVT	120.280	4.650	cool lava pillar
2002/09/15	13:42:17	45.93303602	-129.98145079	1517.267	EVT	107.560	5.450	taking digital photos
2002/09/15	13:43:46	45.93299948	-129.98128514	1514.357	EVT	107.570	3.620	frame grabs of lava
2002/09/15	13:44:01	45.93298969	-129.98124001	1512.631	EVT	106.760	5.990	this is all from the 98 lava flow
2002/09/15	13:44:52	45.93292741	-129.98105922	1514.385	EVT	110.400	3.980	blank-text
2002/09/15	13:44:54	45.93292418	-129.98104840	1514.371	EVT	108.440	4.130	blank-text
2002/09/15	13:45:01	45.93291372	-129.98101695	1513.861	EVT	106.930	4.390	cool collapse pit
2002/09/15	13:56:45	45.93284561	-129.98083044	1513.045	EVT	120.350	5.520	we are at the elevator launch site now
2002/09/15	14:08:08	45.93284555	-129.98083013	1513.270	EVT	300.360	5.340	changing tapes
2002/09/15	14:10:47	45.93285443	-129.98085304	1513.147	EVT	300.180	5.380	all tapes changed
2002/09/15	14:41:20	45.93312745	-129.98154912	1517.056	EVT	300.290	5.350	heading to Cloud vent
2002/09/15	14:51:57	45.93343669	-129.98192194	1517.070	EVT	248.490	5.720	elevator in sight
2002/09/15	14:52:38	45.93342561	-129.98194182	1517.362	EVT	231.840	4.520	this is the barrel sampler
2002/09/15	14:54:11	45.93336585	-129.98205042	1517.219	EVT	273.420	4.250	Looking at the Lang sampler, the second elevator, probe is in the crack
2002/09/15	14:56:37	45.93336630	-129.98205012	1517.138	EVT	322.680	2.580	barrel sampler on the right, Lang sampler on the left
2002/09/15	14:57:32	45.93336630	-129.98204988	1517.070	EVT	255.550	4.290	blank-text
2002/09/15	14:58:28	45.93333017	-129.98209486	1519.143	EVT	249.570	2.780	The major concern here is that prop wash might dislodge the Lang sampler.
2002/09/15	15:01:41	45.93333214	-129.98210186	1520.965	EVT	242.220	0.900	about to use the icl
2002/09/15	15:03:57	45.93333083	-129.98209348	1521.074	EVT	242.230	0.900	3.7 derees
2002/09/15	15:04:11	45.93333108	-129.98209505	1520.979	EVT	242.210	0.900	15 degrees
2002/09/15	15:04:27	45.93333151	-129.98209673	1520.931	EVT	242.190	0.930	17.0 degrees
2002/09/15	15:04:34	45.93333187	-129.98209742	1521.019	EVT	242.220	0.910	17.5
2002/09/15	15:04:44	45.93333237	-129.98209835	1520.972	EVT	242.230	0.900	18.2
2002/09/15	15:04:55	45.93333283	-129.98209903	1520.924	EVT	242.210	0.930	18.6
2002/09/15	15:05:04	45.93333288	-129.98209825	1521.006	EVT	242.180	0.940	18.8
2002/09/15	15:05:13	45.93333273	-129.98209779	1521.019	EVT	242.210	0.940	19.1
2002/09/15	15:05:44	45.93333215	-129.98209322	1521.013	EVT	242.260	0.930	19.5
2002/09/15	15:06:12	45.93333167	-129.98209190	1520.904	EVT	242.230	0.930	19.9 degrees
2002/09/15	15:06:24	45.93333159	-129.98209167	1520.992	EVT	242.220	0.930	20.2
2002/09/15	15:06:42	45.93333159	-129.98209086	1521.006	EVT	242.230	0.930	20.4 maximum
2002/09/15	15:07:02	45.93333188	-129.98209011	1521.047	EVT	242.230	0.930	now 20.8 degrees
2002/09/15	15:07:39	45.93333220	-129.98208828	1521.067	EVT	242.250	0.920	21.1 degrees
2002/09/15	15:07:43	45.93333227	-129.98208832	1521.019	EVT	242.200	0.910	blank-text
2002/09/15	15:08:05	45.93333271	-129.98208832	1521.019	EVT	242.210	0.910	blank-text
2002/09/15	15:08:29	45.93333383	-129.98208790	1521.047	EVT	242.190	0.890	up to 22.1 now

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	15:09:24	45.93333335	-129.98208934	1521.033	EVT	242.240	0.970	There is a concern about flow magnitude being too low for the barrel sampler.
2002/09/15	15:10:09	45.93333366	-129.98208990	1520.972	EVT	242.200	0.970	blank-text
2002/09/15	15:11:12	45.93333453	-129.98209341	1520.911	EVT	242.290	0.990	another possible site for the barrel sampler, it got up to 9.5 degrees
2002/09/15	15:11:34	45.93333392	-129.98208969	1520.985	EVT	242.330	0.960	spider crab coming into view
2002/09/15	15:11:58	45.93333337	-129.98208759	1521.060	EVT	242.400	0.970	15.4 degrees
2002/09/15	15:12:33	45.93333268	-129.98208457	1520.985	EVT	242.240	0.970	palm worm to the right of frame
2002/09/15	15:13:35	45.93332807	-129.98207120	1520.870	EVT	242.240	0.980	more flow 10.7 degrees
2002/09/15	15:13:53	45.93332714	-129.98206921	1520.958	EVT	242.250	0.980	blank-text
2002/09/15	15:14:37	45.93332469	-129.98206447	1520.958	EVT	242.190	0.940	15.7 was highest temp here
2002/09/15	15:16:11	45.93332405	-129.98206525	1521.033	EVT	242.190	0.940	third site 35 degrees
2002/09/15	15:16:44	45.93332396	-129.98206543	1521.108	EVT	242.110	0.940	42.9 is the highest temp
2002/09/15	15:21:28	45.93339583	-129.98196961	1519.694	EVT	328.870	2.380	bac traps
2002/09/15	15:25:20	45.93345119	-129.98198004	1517.899	EVT	248.990	3.600	blank-text
2002/09/15	15:27:07	45.93344891	-129.98198915	1517.865	EVT	249.300	3.730	in front of barrel sampler
2002/09/15	15:28:28	45.93344717	-129.98199594	1518.028	EVT	249.140	3.600	blank-text
2002/09/15	15:29:01	45.93344702	-129.98199858	1517.688	EVT	249.520	4.010	moving elevator towards venting
2002/09/15	15:36:36	45.93338784	-129.98208145	1519.191	EVT	207.140	2.570	elevator set down, Lang sampler is visable from here
2002/09/15	15:37:01	45.93338787	-129.98208119	1521.135	EVT	200.900	0.650	blank-text
2002/09/15	15:37:42	45.93338882	-129.98207937	1521.101	EVT	201.170	0.660	the tire on the elevator is to focus and increase flow to barrels
2002/09/15	15:39:12	45.93338709	-129.98207553	1521.162	EVT	201.500	0.660	blank-text
2002/09/15	15:39:27	45.93338694	-129.98207483	1521.230	EVT	201.470	0.660	blank-text
2002/09/15	15:41:13	45.93333282	-129.98202873	1519.626	EVT	251.640	3.110	spider crab, same one we saw before?
2002/09/15	15:42:08	45.93332691	-129.98204188	1520.115	EVT	251.970	2.490	blank-text
2002/09/15	15:42:32	45.93332339	-129.98205033	1520.911	EVT	253.210	1.430	sample site at bend in crack
2002/09/15	15:43:00	45.93332330	-129.98205002	1521.047	EVT	252.230	1.380	blank-text
2002/09/15	15:43:25	45.93332318	-129.98205000	1521.101	EVT	252.080	1.410	last frame grab was the target site
2002/09/15	15:43:42	45.93332337	-129.98205014	1520.999	EVT	252.120	1.420	blank-text
2002/09/15	15:43:51	45.93332328	-129.98205021	1520.985	EVT	252.130	1.420	blank-text
2002/09/15	15:43:57	45.93332331	-129.98205024	1520.870	EVT	252.120	1.430	blank-text
2002/09/15	15:44:05	45.93332269	-129.98205035	1521.067	EVT	251.970	1.400	blank-text
2002/09/15	15:44:26	45.93332268	-129.98205057	1521.074	EVT	252.120	1.420	tire slipped
2002/09/15	15:44:45	45.93332258	-129.98205048	1521.101	EVT	252.670	1.420	repositioned tire
2002/09/15	15:44:53	45.93332244	-129.98205026	1521.006	EVT	252.680	1.410	blank-text
2002/09/15	15:44:54	45.93332230	-129.98205020	1521.142	EVT	252.870	1.400	blank-text
2002/09/15	15:44:56	45.93332214	-129.98204981	1520.992	EVT	251.890	1.500	blank-text
2002/09/15	15:45:15	45.93331933	-129.98205288	1520.870	EVT	253.920	1.430	blank-text
2002/09/15	15:45:45	45.93331919	-129.98205209	1521.149	EVT	253.700	1.260	debris is clearing, hard to see flow
2002/09/15	15:45:59	45.93331934	-129.98205196	1521.074	EVT	253.610	1.250	blank-text

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	15:46:19	45.93331938	-129.98205182	1521.149	EVT	253.730	1.240	flow was coming out the bottom of tire
2002/09/15	15:46:47	45.93331932	-129.98205186	1520.999	EVT	253.670	1.290	repositioning
2002/09/15	15:47:05	45.93331930	-129.98205162	1521.121	EVT	253.580	1.260	blank-text
2002/09/15	15:47:31	45.93331937	-129.98205152	1521.176	EVT	253.710	1.260	now there is flow out the top
2002/09/15	15:48:02	45.93331966	-129.98205128	1521.176	EVT	253.680	1.260	greater flow downslope from tire
2002/09/15	15:48:53	45.93331984	-129.98205096	1521.155	EVT	253.610	1.290	blank-text
2002/09/15	15:49:30	45.93331991	-129.98205078	1521.067	EVT	253.560	1.310	repositioning again
2002/09/15	15:49:56	45.93331989	-129.98205050	1521.189	EVT	253.610	1.250	blank-text
2002/09/15	15:50:17	45.93331987	-129.98205036	1521.101	EVT	253.630	1.260	blank-text
2002/09/15	15:50:29	45.93332002	-129.98205028	1521.176	EVT	253.620	1.260	blank-text
2002/09/15	15:50:54	45.93332004	-129.98205018	1521.101	EVT	253.710	1.240	slipped down a little
2002/09/15	15:52:16	45.93332028	-129.98204932	1521.162	EVT	253.720	1.280	rotating tire so that the connector is uphill
2002/09/15	15:53:00	45.93332046	-129.98204880	1521.135	EVT	253.810	1.300	blank-text
2002/09/15	15:53:08	45.93332050	-129.98204885	1521.006	EVT	253.730	1.310	blank-text
2002/09/15	15:53:15	45.93332052	-129.98204887	1521.047	EVT	253.680	1.290	blank-text
2002/09/15	15:53:22	45.93332062	-129.98204879	1521.162	EVT	253.620	1.290	blank-text
2002/09/15	15:53:33	45.93332057	-129.98204890	1521.060	EVT	253.780	1.290	blank-text
2002/09/15	15:54:22	45.93332058	-129.98204868	1521.101	EVT	253.900	1.250	some flow is coming out the uphill side
2002/09/15	15:55:53	45.93332075	-129.98204815	1521.217	EVT	253.670	1.290	tire nudged uphill and there is flow out the nozzle
2002/09/15	15:58:58	45.93332149	-129.98204651	1521.142	EVT	253.840	1.260	icl in nozzle, 2.7 background
2002/09/15	15:59:39	45.93332121	-129.98204583	1521.108	EVT	253.580	1.240	13 degrees
2002/09/15	16:00:03	45.93332138	-129.98204545	1521.135	EVT	253.570	1.240	30 degrees
2002/09/15	16:00:41	45.93332140	-129.98204506	1521.155	EVT	253.580	1.230	30.6 maximum,time to hook up barrels
2002/09/15	16:02:19	45.93332343	-129.98203380	1520.761	EVT	265.430	2.130	blank-text
2002/09/15	16:06:00	45.93338233	-129.98206482	1517.967	EVT	208.780	3.950	mn-fiber bag appears to be gone and ice cube has melted
2002/09/15	16:06:21	45.93337883	-129.98206779	1517.362	EVT	209.030	4.570	blank-text
2002/09/15	16:06:25	45.93337891	-129.98206740	1517.036	EVT	208.500	4.790	blank-text
2002/09/15	16:06:50	45.93337622	-129.98207948	1517.886	EVT	171.040	4.010	blank-text
2002/09/15	16:07:04	45.93337686	-129.98208221	1517.539	EVT	140.250	4.370	blank-text
2002/09/15	16:07:26	45.93337049	-129.98207527	1517.172	EVT	143.190	4.730	moving elevator to near tire
2002/09/15	16:09:11	45.93337804	-129.98206579	1519.918	EVT	166.760	1.880	elevator set down
2002/09/15	16:09:20	45.93337978	-129.98205473	1520.013	EVT	189.640	1.870	blank-text
2002/09/15	16:09:36	45.93337639	-129.98202631	1519.592	EVT	199.310	2.060	blank-text
2002/09/15	16:10:04	45.93335497	-129.98199689	1519.741	EVT	247.520	1.660	frame grabs of local area
2002/09/15	16:10:14	45.93334402	-129.98199208	1519.667	EVT	248.790	2.670	blank-text
2002/09/15	16:10:22	45.93334037	-129.98200291	1519.911	EVT	286.630	3.270	blank-text
2002/09/15	16:10:34	45.93334206	-129.98203074	1520.462	EVT	292.480	2.560	blank-text
2002/09/15	16:11:04	45.93334650	-129.98204385	1521.339	EVT	323.600	1.050	blank-text
2002/09/15	16:11:15	45.93334619	-129.98204336	1521.380	EVT	323.610	1.000	blank-text
2002/09/15	16:11:58	45.93334537	-129.98204150	1521.502	EVT	323.670	1.000	blank-text

Event log: LEXEN 2002

Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	16:16:01	45.93332108	-129.98202807	1520.972	EVT	274.380	2.030	blank-text
2002/09/15	16:16:40	45.93331959	-129.98203646	1521.087	EVT	266.140	1.530	there is a kink in the hose
2002/09/15	16:17:34	45.93331947	-129.98203620	1521.121	EVT	266.040	1.560	blank-text
2002/09/15	16:17:59	45.93331946	-129.98203608	1521.013	EVT	266.090	1.560	not a kink, but a flat spot in hose
2002/09/15	16:19:08	45.93331963	-129.98203550	1521.081	EVT	265.970	1.570	blank-text
2002/09/15	16:19:13	45.93331960	-129.98203549	1521.101	EVT	266.140	1.570	blank-text
2002/09/15	16:19:23	45.93331966	-129.98203535	1521.121	EVT	266.090	1.570	blank-text
2002/09/15	16:19:37	45.93331967	-129.98203523	1521.101	EVT	265.940	1.540	blank-text
2002/09/15	16:20:02	45.93331979	-129.98203499	1521.033	EVT	266.090	1.590	nozzle of barrel sampler now on tire
2002/09/15	16:20:36	45.93331980	-129.98203486	1521.081	EVT	266.180	1.570	blank-text
2002/09/15	16:20:41	45.93331984	-129.98203478	1521.019	EVT	266.010	1.600	blank-text
2002/09/15	16:20:45	45.93331984	-129.98203474	1521.108	EVT	266.120	1.590	blank-text
2002/09/15	16:21:12	45.93331990	-129.98203477	1520.965	EVT	265.910	1.600	shimmering around tire
2002/09/15	16:21:19	45.93331992	-129.98203475	1521.013	EVT	265.970	1.620	blank-text
2002/09/15	16:21:57	45.93331977	-129.98203460	1521.094	EVT	266.010	1.560	barrel sampler on
2002/09/15	16:22:07	45.93331962	-129.98203463	1521.128	EVT	266.200	1.570	blank-text
2002/09/15	16:22:39	45.93331928	-129.98203420	1521.142	EVT	266.110	1.550	blank-text
2002/09/15	16:23:05	45.93331920	-129.98203374	1521.060	EVT	265.700	1.590	inspecting hose
2002/09/15	16:24:50	45.93334407	-129.98203370	1521.223	EVT	290.750	1.330	correction-the valve at the nozzle was opened but the barrel sampler hasn't started pumping
2002/09/15	16:25:19	45.93334400	-129.98203346	1521.223	EVT	290.720	1.360	valve on elevator now open
2002/09/15	16:25:37	45.93334374	-129.98203273	1521.094	EVT	289.800	1.350	This will be sample 1A
2002/09/15	16:25:55	45.93334088	-129.98203141	1521.353	EVT	288.730	1.160	tube is now straight
2002/09/15	16:27:01	45.93333292	-129.98202848	1521.414	EVT	288.680	1.390	blank-text
2002/09/15	16:27:05	45.93333289	-129.98202837	1521.332	EVT	288.560	1.480	blank-text
2002/09/15	16:27:23	45.93333286	-129.98202832	1521.305	EVT	288.570	1.440	flat tube at bend
2002/09/15	16:30:07	45.93334158	-129.98203097	1521.203	EVT	288.770	1.400	blank-text
2002/09/15	16:30:32	45.93334135	-129.98203047	1521.135	EVT	288.810	1.300	pump on sample started
2002/09/15	16:30:54	45.93334137	-129.98203027	1521.319	EVT	288.800	1.300	1.6 gal/min initially
2002/09/15	16:31:16	45.93333528	-129.98203001	1521.495	EVT	287.310	1.260	blank-text
2002/09/15	16:31:20	45.93333526	-129.98202983	1521.291	EVT	287.300	1.380	blank-text
2002/09/15	16:31:43	45.93333534	-129.98202965	1521.427	EVT	287.500	1.260	still a flat spot in hose
2002/09/15	16:32:17	45.93333519	-129.98202940	1521.366	EVT	287.470	1.260	blank-text
2002/09/15	16:33:48	45.93333517	-129.98202983	1521.502	EVT	287.710	1.230	bag
2002/09/15	16:33:54	45.93333520	-129.98202977	1521.414	EVT	287.710	1.230	blank-text
2002/09/15	16:34:25	45.93333533	-129.98203001	1521.407	EVT	287.730	1.240	bag of Mn fibers near floats
2002/09/15	16:35:03	45.93333568	-129.98202988	1521.407	EVT	287.710	1.220	fibers were sent down in an ice cube to avoid picking up radium on the way down.
2002/09/15	16:35:22	45.93333598	-129.98202955	1521.441	EVT	287.720	1.240	good flow out of meter
2002/09/15	16:37:03	45.93333679	-129.98203034	1521.366	EVT	287.740	1.230	flow about .6 gal/min
2002/09/15	16:37:05	45.93333682	-129.98203035	1521.468	EVT	287.730	1.230	blank-text

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	16:41:29	45.93334339	-129.98203168	1521.339	EVT	290.100	1.210	flow on barrel sampler is about .5 gpm
2002/09/15	16:52:22	45.93332872	-129.98202929	1521.142	EVT	277.610	1.480	blank-text
2002/09/15	16:52:23	45.93332872	-129.98202929	1521.142	EVT	277.610	1.480	blank-text
2002/09/15	16:52:28	45.93332873	-129.98202914	1521.210	EVT	277.600	1.490	blank-text
2002/09/15	16:52:49	45.93332891	-129.98202924	1521.183	EVT	277.600	1.490	still a bit of a flat spot in hose
2002/09/15	16:56:29	45.93333745	-129.98202643	1521.346	EVT	278.640	0.930	flow now .25 gal/min
2002/09/15	16:57:50	45.93333303	-129.98203024	1521.278	EVT	278.690	0.940	blank-text
2002/09/15	16:58:11	45.93333199	-129.98203065	1521.305	EVT	278.700	0.940	Lang probe
2002/09/15	16:58:46	45.93333032	-129.98203095	1521.366	EVT	278.720	0.940	blank-text
2002/09/15	16:58:56	45.93332977	-129.98203081	1521.339	EVT	278.720	0.940	blank-text
2002/09/15	17:06:24	45.93328645	-129.98201952	1520.979	EVT	262.400	1.600	blank-text
2002/09/15	17:06:35	45.93328994	-129.98201880	1520.849	EVT	262.980	1.740	blank-text
2002/09/15	17:07:35	45.93329236	-129.98202192	1521.013	EVT	262.810	1.480	blank-text
2002/09/15	17:08:18	45.93329299	-129.98202166	1520.999	EVT	262.800	1.460	attempting to get flat spots out of hose
2002/09/15	17:08:35	45.93329323	-129.98202161	1521.149	EVT	262.820	1.450	blank-text
2002/09/15	17:08:37	45.93329330	-129.98202160	1521.033	EVT	262.830	1.460	blank-text
2002/09/15	17:09:15	45.93329359	-129.98202129	1520.999	EVT	262.830	1.460	flat spot
2002/09/15	17:10:13	45.93329538	-129.98201755	1521.325	EVT	262.940	1.340	checking for other spots of restricted flow
2002/09/15	17:10:17	45.93329533	-129.98201748	1521.298	EVT	262.950	1.410	blank-text
2002/09/15	17:10:29	45.93329525	-129.98201765	1521.312	EVT	263.050	1.300	Lang sampler
2002/09/15	17:10:32	45.93329526	-129.98201771	1521.339	EVT	263.090	1.300	blank-text
2002/09/15	17:10:42	45.93329520	-129.98201754	1521.373	EVT	263.030	1.310	blank-text
2002/09/15	17:11:06	45.93329528	-129.98201709	1521.319	EVT	262.950	1.390	blank-text
2002/09/15	17:11:13	45.93329527	-129.98201695	1521.278	EVT	262.940	1.380	blank-text
2002/09/15	17:11:16	45.93329526	-129.98201683	1521.305	EVT	262.950	1.340	blank-text
2002/09/15	17:11:19	45.93329523	-129.98201678	1521.278	EVT	262.940	1.340	blank-text
2002/09/15	17:11:26	45.93329516	-129.98201675	1521.155	EVT	263.040	1.460	blank-text
2002/09/15	17:11:43	45.93329510	-129.98201680	1521.257	EVT	262.970	1.340	blank-text
2002/09/15	17:11:48	45.93329504	-129.98201675	1521.210	EVT	262.930	1.350	blank-text
2002/09/15	17:12:12	45.93330529	-129.98201287	1521.189	EVT	277.230	1.580	Lang sampler in good shape
2002/09/15	17:12:30	45.93331062	-129.98201501	1521.346	EVT	274.340	0.940	elevator frame grabs
2002/09/15	17:13:04	45.93331053	-129.98201631	1521.468	EVT	274.400	1.040	flow down to .1 gal/min
2002/09/15	17:14:51	45.93331275	-129.98201656	1521.359	EVT	274.460	30.000	blank-text
2002/09/15	17:14:54	45.93331283	-129.98201674	1521.393	EVT	274.450	1.050	blank-text
2002/09/15	17:14:56	45.93331289	-129.98201664	1521.332	EVT	274.440	30.000	blank-text
2002/09/15	17:15:00	45.93331302	-129.98201653	1521.346	EVT	274.440	30.000	blank-text
2002/09/15	17:15:04	45.93331302	-129.98201633	1521.325	EVT	274.420	0.910	blank-text
2002/09/15	17:15:07	45.93331310	-129.98201634	1521.339	EVT	274.470	30.000	blank-text
2002/09/15	17:15:10	45.93331326	-129.98201630	1521.291	EVT	274.440	0.910	blank-text
2002/09/15	17:15:12	45.93331334	-129.98201630	1521.291	EVT	274.460	30.000	blank-text
2002/09/15	17:15:16	45.93331348	-129.98201606	1521.434	EVT	274.460	0.900	blank-text

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	17:15:23	45.93331356	-129.98201613	1521.407	EVT	274.460	30.000	blank-text
2002/09/15	17:15:28	45.93331384	-129.98201601	1521.237	EVT	274.460	1.060	blank-text
2002/09/15	17:15:32	45.93331398	-129.98201590	1521.291	EVT	274.490	30.000	blank-text
2002/09/15	17:15:34	45.93331405	-129.98201581	1521.366	EVT	274.490	1.060	blank-text
2002/09/15	17:15:37	45.93331404	-129.98201586	1521.346	EVT	274.490	30.000	blank-text
2002/09/15	17:15:42	45.93331407	-129.98201625	1521.366	EVT	274.490	1.120	blank-text
2002/09/15	17:15:59	45.93331419	-129.98201610	1521.387	EVT	274.510	0.910	blank-text
2002/09/15	17:16:36	45.93331482	-129.98201584	1521.427	EVT	274.540	0.910	blank-text
2002/09/15	17:17:27	45.93331409	-129.98201713	1521.210	EVT	274.670	0.910	frame grabs previous to this were a survey of the barrel sampler and hoses.
2002/09/15	17:18:26	45.93331186	-129.98201896	1521.339	EVT	274.780	0.920	crab climbing towards the elevator
2002/09/15	17:20:11	45.93330868	-129.98202587	1521.325	EVT	274.770	0.920	nearly no flow
2002/09/15	17:20:54	45.93330722	-129.98202834	1521.380	EVT	274.740	0.920	blank-text
2002/09/15	17:21:19	45.93330674	-129.98203400	1521.502	EVT	275.090	30.000	looks like no flow out of top
2002/09/15	17:21:59	45.93330655	-129.98203454	1521.251	EVT	274.820	0.930	blank-text
2002/09/15	17:23:59	45.93330427	-129.98204164	1521.169	EVT	274.980	1.020	we are opening the second barrel and then close the first one
2002/09/15	17:24:39	45.93330355	-129.98204095	1521.169	EVT	275.020	1.050	valve to 1 b is open
2002/09/15	17:25:11	45.93330294	-129.98204034	1521.237	EVT	274.870	0.930	1a is now closed
2002/09/15	17:25:46	45.93330315	-129.98203886	1521.223	EVT	274.920	0.950	blank-text
2002/09/15	17:34:22	45.93330797	-129.98202223	1521.183	EVT	275.200	0.980	flow rate
2002/09/15	17:44:24	45.93331526	-129.98205938	1521.176	EVT	274.890	30.000	flow rate about .2 gal/min
2002/09/15	17:45:17	45.93331348	-129.98206176	1521.251	EVT	274.800	30.000	c
2002/09/15	17:45:44	45.93331205	-129.98206588	1521.094	EVT	274.700	1.000	correction, flow rate is 0.5 gal/min
2002/09/15	18:02:21	45.93333081	-129.98211514	1521.142	EVT	274.810	30.000	t
2002/09/15	18:02:52	45.93333283	-129.98211690	1521.142	EVT	274.800	30.000	tape change in progress
2002/09/15	18:03:14	45.93333344	-129.98211838	1521.244	EVT	274.810	30.000	crab
2002/09/15	18:03:21	45.93333363	-129.98211850	1521.210	EVT	274.820	30.000	close up
2002/09/15	18:03:26	45.93333386	-129.98211814	1521.121	EVT	274.830	30.000	blank-text
2002/09/15	18:03:34	45.93333372	-129.98211824	1521.169	EVT	274.810	30.000	blank-text
2002/09/15	18:03:41	45.93333426	-129.98211893	1521.169	EVT	274.770	30.000	blank-text
2002/09/15	18:04:00	45.93333680	-129.98211985	1521.067	EVT	274.730	1.010	blank-text
2002/09/15	18:04:39	45.93334023	-129.98212084	1521.135	EVT	274.710	0.990	previous frame grabs, crab close-ups
2002/09/15	18:07:18	45.93334949	-129.98211436	1521.121	EVT	274.730	0.930	crab close up
2002/09/15	18:07:28	45.93335070	-129.98211283	1521.196	EVT	274.690	0.940	blank-text
2002/09/15	18:07:36	45.93335130	-129.98211162	1521.094	EVT	274.760	0.960	blank-text
2002/09/15	18:07:47	45.93335143	-129.98211139	1521.135	EVT	274.840	0.960	blank-text
2002/09/15	18:08:05	45.93335132	-129.98211110	1521.142	EVT	274.860	0.920	blank-text
2002/09/15	18:08:17	45.93335155	-129.98211080	1521.162	EVT	274.860	0.930	blank-text
2002/09/15	18:08:22	45.93335150	-129.98211103	1521.081	EVT	274.840	0.920	blank-text
2002/09/15	18:08:29	45.93335166	-129.98211100	1521.257	EVT	274.870	0.940	blank-text

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	18:08:37	45.93335189	-129.98211069	1521.210	EVT	274.890	0.940	blank-text
2002/09/15	18:09:25	45.93335364	-129.98210697	1521.155	EVT	274.740	0.950	flow meter, about .4 gal/min
2002/09/15	18:24:30	45.93339113	-129.98203885	1521.162	EVT	274.880	0.950	opening barrel 1a, then checking flow meter
2002/09/15	18:24:39	45.93339111	-129.98203908	1521.217	EVT	274.840	0.930	then will open barrel 1b
2002/09/15	18:25:26	45.93339120	-129.98203815	1521.101	EVT	274.780	0.990	barrel 1a is open
2002/09/15	18:25:35	45.93339096	-129.98203834	1521.074	EVT	274.760	0.990	1b is closed
2002/09/15	18:25:42	45.93339087	-129.98203801	1521.087	EVT	274.750	0.960	no change in flow meter yet
2002/09/15	18:28:30	45.93339137	-129.98202997	1520.951	EVT	274.880	1.020	turning off pump
2002/09/15	18:29:11	45.93339233	-129.98202710	1521.101	EVT	274.740	0.940	will turn back on to see if flow is increased
2002/09/15	18:30:26	45.93339392	-129.98202403	1521.060	EVT	274.880	0.960	pump back on
2002/09/15	18:30:33	45.93339377	-129.98202453	1521.013	EVT	274.850	0.980	flow much higher
2002/09/15	18:31:05	45.93339313	-129.98202481	1521.013	EVT	274.820	0.970	but decreasing
2002/09/15	18:32:55	45.93339366	-129.98202539	1521.081	EVT	274.420	0.960	pump off
2002/09/15	18:33:16	45.93339375	-129.98202473	1521.033	EVT	274.660	1.050	can't fix pump problem, giving up
2002/09/15	18:36:43	45.93337093	-129.98202172	1520.714	EVT	276.920	2.010	blank-text
2002/09/15	18:39:48	45.93336894	-129.98202398	1521.047	EVT	270.470	1.400	stowing sampler intake and tire
2002/09/15	18:42:09	45.93338621	-129.98202813	1521.013	EVT	295.290	1.350	putting intake on elevator
2002/09/15	18:44:39	45.93341585	-129.98206542	1521.053	EVT	139.150	1.250	putting tire on elevator
2002/09/15	18:45:09	45.93342575	-129.98205840	1520.924	EVT	139.250	1.740	securing tire
2002/09/15	18:45:27	45.93342860	-129.98204362	1521.169	EVT	139.400	1.660	tire secured
2002/09/15	19:05:08	45.93382734	-129.98189875	1517.586	EVT	39.280	3.510	blank-text
2002/09/15	19:05:08	45.93382878	-129.98189642	1517.580	EVT	37.720	3.600	blank-text
2002/09/15	19:05:11	45.93383143	-129.98188876	1517.498	EVT	48.000	3.160	blank-text
2002/09/15	19:05:13	45.93383154	-129.98188595	1517.478	EVT	60.100	3.060	blank-text
2002/09/15	19:05:15	45.93383110	-129.98188174	1517.491	EVT	86.280	3.090	blank-text
2002/09/15	19:07:54	45.93393087	-129.98194079	1516.363	EVT	147.790	4.040	frame grabs are of rock formations
2002/09/15	19:14:54	45.93385373	-129.98224743	1516.811	EVT	271.240	4.870	lang sampler in view
2002/09/15	19:15:05	45.93385459	-129.98229619	1516.696	EVT	268.930	4.930	barrel sampler in view
2002/09/15	19:15:12	45.93385410	-129.98231210	1516.621	EVT	268.680	4.710	not lang sampler
2002/09/15	19:17:18	45.93385009	-129.98235297	1521.060	EVT	250.550	1.110	turning the elevator to get to the release
2002/09/15	19:22:00	45.93381758	-129.98234170	1521.271	EVT	254.940	0.840	rotating the elevator some more
2002/09/15	19:23:31	45.93382124	-129.98235114	1521.251	EVT	255.190	1.530	pulling release
2002/09/15	19:24:53	45.93386312	-129.98231541	1520.435	EVT	253.860	1.200	elevator is going up
2002/09/15	19:25:05	45.93387123	-129.98228703	1519.361	EVT	254.720	2.260	it's on it's way
2002/09/15	19:26:46	45.93370942	-129.98223303	1517.892	EVT	112.690	3.590	we are on our way back to the Lang sampler
2002/09/15	19:28:29	45.93367076	-129.98203215	1520.782	EVT	15.260	1.980	Lang sampler funnel
2002/09/15	19:29:43	45.93367276	-129.98203207	1520.646	EVT	16.840	2.150	we will now take the temperature under the funnel
	intake							
2002/09/15	19:30:58	45.93367251	-129.98203241	1520.503	EVT	16.850	2.160	moving the temperature probe into position
2002/09/15	19:31:30	45.93367240	-129.98203254	1520.612	EVT	16.740	2.110	temperature probe in position
2002/09/15	19:31:51	45.93367226	-129.98203253	1520.632	EVT	16.710	2.110	temperature 18 and rising

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	19:33:00	45.93367206	-129.98203272	1520.550	EVT	16.750	2.190	20.4 is the highest temperature recorded
2002/09/15	19:48:07	45.93365904	-129.98203915	1519.578	EVT	15.280	2.780	sliding the t
2002/09/15	19:48:09	45.93365899	-129.98203900	1519.619	EVT	15.300	2.790	blank-text
2002/09/15	19:48:13	45.93365911	-129.98203928	1519.483	EVT	15.150	2.820	crab
2002/09/15	19:49:12	45.93365902	-129.98203895	1519.531	EVT	15.350	2.750	blank-text
2002/09/15	19:49:58	45.93365866	-129.98203768	1519.524	EVT	15.380	2.800	blank-text
2002/09/15	19:50:20	45.93365889	-129.98203802	1519.551	EVT	15.310	2.800	blank-text
2002/09/15	20:01:13	45.93362578	-129.98193202	1519.551	EVT	38.290	2.880	that looks like a gauge
2002/09/15	20:01:26	45.93363029	-129.98192774	1519.272	EVT	38.200	2.950	we will move in for a closer look
2002/09/15	20:01:37	45.93362973	-129.98192841	1519.286	EVT	38.220	2.920	it's a gauge
2002/09/15	20:02:56	45.93364085	-129.98190648	1522.026	EVT	37.990	30.000	we'll bring back the gauge
2002/09/15	20:04:14	45.93375638	-129.98174682	1517.185	EVT	38.810	5.050	blank-text
2002/09/15	20:04:15	45.93375870	-129.98174447	1517.199	EVT	38.300	5.070	blank-text
2002/09/15	20:04:36	45.93380005	-129.98170710	1517.926	EVT	37.980	4.740	looked like a jellyfish or something went by
2002/09/15	20:08:14	45.93391245	-129.98167751	1515.527	EVT	292.010	6.890	the elevator is on the surface
2002/09/15	20:08:21	45.93391473	-129.98167226	1515.472	EVT	273.970	6.830	blank-text
2002/09/15	20:08:27	45.93391994	-129.98167730	1515.595	EVT	272.080	6.840	rock formation
2002/09/15	20:22:53	45.93466158	-129.98227570	1508.701	EVT	274.210	11.860	elevator onb
2002/09/15	20:23:00	45.93467681	-129.98229055	1508.851	EVT	272.970	8.920	elevator on deck
2002/09/15	20:23:57	45.93479258	-129.98240255	1508.470	EVT	272.570	10.440	we will now head back to the Lang sampler
2002/09/15	20:46:24	45.93457228	-129.98198895	1508.620	EVT	180.170	9.580	Still heading back to lang sampler
2002/09/15	21:05:28	45.93333765	-129.98248720	1521.176	EVT	178.760	2.210	discarding rock from Jason's basket
2002/09/15	21:05:46	45.93332685	-129.98249642	1521.162	EVT	178.710	1.950	rock broke while lifting it
2002/09/15	21:07:02	45.93326151	-129.98236709	1519.735	EVT	176.290	1.770	we will pick up the smaller piece
2002/09/15	21:07:57	45.93326219	-129.98236613	1520.170	EVT	177.070	1.310	Jason is no longer too heavy to return to the surface
2002/09/15	21:08:05	45.93326210	-129.98236616	1520.176	EVT	177.020	1.360	swirl
2002/09/15	21:08:43	45.93324070	-129.98235298	1519.857	EVT	177.240	1.480	swirl
2002/09/15	21:08:49	45.93323862	-129.98235245	1519.911	EVT	177.080	1.630	swirl
2002/09/15	21:13:59	45.93307511	-129.98213096	1520.374	EVT	25.960	2.020	removing the Lang sampler funnel from sea floor
2002/09/15	21:14:50	45.93309013	-129.98218952	1518.273	EVT	90.910	3.260	replacing funnel connector in the basket in
preperation for sampler release								
2002/09/15	21:16:33	45.93312194	-129.98217596	1518.987	EVT	106.460	2.310	funnel connector back in basket
2002/09/15	21:17:38	45.93312716	-129.98218497	1519.062	EVT	127.880	2.280	now releasing Lang sampler
2002/09/15	21:17:57	45.93315686	-129.98222965	1519.225	EVT	131.940	1.880	sampler heading to the surface
2002/09/15	21:28:19	45.93322726	-129.98228357	1517.022	EVT	229.420	4.430	blank-text
2002/09/15	21:28:34	45.93322315	-129.98228992	1517.281	EVT	231.610	4.060	inspecting the swirl
2002/09/15	21:29:17	45.93321744	-129.98230069	1518.613	EVT	241.870	2.850	blank-text
2002/09/15	21:29:40	45.93321696	-129.98229963	1518.627	EVT	242.210	2.730	blank-text
2002/09/15	21:29:43	45.93321711	-129.98229979	1518.565	EVT	241.670	2.870	blank-text
2002/09/15	21:29:47	45.93321720	-129.98229982	1518.477	EVT	241.800	2.990	blank-text
2002/09/15	21:29:50	45.93321689	-129.98229939	1518.409	EVT	241.580	3.000	blank-text

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	21:29:52	45.93321709	-129.98229942	1518.389	EVT	241.920	2.990	blank-text
2002/09/15	21:29:53	45.93321674	-129.98229915	1518.436	EVT	241.480	2.920	blank-text
2002/09/15	21:29:57	45.93321695	-129.98229927	1518.613	EVT	241.730	2.780	blank-text
2002/09/15	21:29:59	45.93321693	-129.98229935	1518.599	EVT	241.660	2.690	blank-text
2002/09/15	21:30:01	45.93321709	-129.98229956	1518.735	EVT	241.790	2.700	blank-text
2002/09/15	21:30:29	45.93321715	-129.98229962	1518.484	EVT	241.720	2.840	blank-text
2002/09/15	21:30:32	45.93321723	-129.98229965	1518.518	EVT	241.570	2.880	blank-text
2002/09/15	21:30:35	45.93321728	-129.98229966	1518.511	EVT	241.750	2.910	blank-text
2002/09/15	21:30:40	45.93321733	-129.98229959	1518.389	EVT	241.660	2.950	blank-text
2002/09/15	21:51:05	45.93332018	-129.98217656	1517.158	EVT	354.010	4.090	blank-text
2002/09/15	21:51:08	45.93332164	-129.98217459	1517.111	EVT	0.950	4.060	blank-text
2002/09/15	21:51:23	45.93332808	-129.98217742	1517.070	EVT	1.930	4.160	blank-text
2002/09/15	21:51:26	45.93332884	-129.98217861	1517.104	EVT	1.960	4.130	blank-text
2002/09/15	21:52:11	45.93332974	-129.98219745	1517.213	EVT	1.270	3.960	Lang sampler spotted on the surface
2002/09/15	21:52:46	45.93334793	-129.98222512	1515.323	EVT	1.880	5.590	columns
2002/09/15	21:52:52	45.93335825	-129.98222985	1516.172	EVT	1.920	4.940	blank-text
2002/09/15	22:04:27	45.93391691	-129.98271284	1514.269	EVT	339.200	3.700	Lang sampler on board
2002/09/15	22:15:59	45.93485952	-129.98297790	1516.281	EVT	236.380	5.340	blank-text
2002/09/15	22:25:24	45.93391877	-129.98268944	1515.017	EVT	170.060	5.740	blank-text
2002/09/15	22:28:36	45.93355427	-129.98264102	1516.811	EVT	169.950	4.550	blank-text
2002/09/15	22:28:47	45.93354433	-129.98264604	1517.994	EVT	161.330	3.430	blank-text
2002/09/15	22:28:51	45.93354230	-129.98264535	1517.994	EVT	142.580	3.590	blank-text
2002/09/15	22:29:01	45.93354011	-129.98264822	1517.967	EVT	134.720	3.540	blank-text
2002/09/15	22:29:06	45.93353900	-129.98265185	1518.688	EVT	127.700	2.930	blank-text
2002/09/15	22:29:09	45.93353671	-129.98265171	1518.837	EVT	119.420	2.960	blank-text
2002/09/15	22:29:11	45.93353612	-129.98265194	1518.525	EVT	113.390	3.120	blank-text
2002/09/15	22:29:15	45.93353426	-129.98265412	1518.450	EVT	107.330	3.250	blank-text
2002/09/15	22:29:15	45.93353426	-129.98265412	1518.450	EVT	107.330	3.250	blank-text
2002/09/15	22:29:43	45.93352710	-129.98267986	1518.178	EVT	82.610	3.570	huge fish
2002/09/15	22:29:50	45.93352667	-129.98268271	1518.069	EVT	83.440	3.520	blank-text
2002/09/15	22:29:55	45.93352554	-129.98268490	1518.273	EVT	92.190	3.410	blank-text
2002/09/15	22:31:52	45.93344595	-129.98269382	1518.178	EVT	201.210	3.130	the crab that attacked Janet's wood is still h
2002/09/15	22:32:00	45.93344592	-129.98269409	1518.096	EVT	201.170	3.290	is still there
2002/09/15	22:47:34	45.93304796	-129.98215107	1520.292	EVT	41.080	1.960	going to ICL probe this ridge here
2002/09/15	22:49:51	45.93304323	-129.98211301	1519.334	EVT	338.100	3.270	summit of ridge
2002/09/15	22:50:43	45.93307836	-129.98209198	1519.232	EVT	209.370	2.240	another view of the ridge
2002/09/15	22:52:01	45.93307741	-129.98211779	1520.401	EVT	206.370	1.130	fissure region
2002/09/15	22:57:49	45.93308174	-129.98211105	1520.612	EVT	229.160	0.870	ICL in the water above the crack
2002/09/15	22:58:54	45.93308237	-129.98211025	1520.714	EVT	229.180	0.880	background temperature 2.7 degrees
2002/09/15	22:59:16	45.93308258	-129.98210976	1520.482	EVT	229.140	0.890	shimmering water at crack
2002/09/15	22:59:26	45.93308264	-129.98210942	1520.639	EVT	229.150	0.890	probing the crack

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	23:00:23	45.93308306	-129.98210858	1520.591	EVT	228.950	0.870	searching for the proper point of visible flow
2002/09/15	23:00:39	45.93308363	-129.98210942	1520.510	EVT	228.850	0.870	ICL probing
2002/09/15	23:01:22	45.93308372	-129.98210711	1520.652	EVT	228.970	0.840	trying another spot with the ICL
2002/09/15	23:02:48	45.93308388	-129.98210628	1520.537	EVT	229.080	0.880	fluid flow from the crack
2002/09/15	23:03:07	45.93308391	-129.98210622	1520.639	EVT	229.170	0.890	still trying to get a solid spot for the ICL
2002/09/15	23:03:28	45.93308404	-129.98210597	1520.618	EVT	229.180	0.880	sampling
2002/09/15	23:03:42	45.93308377	-129.98210606	1520.618	EVT	229.210	0.870	poking and probing, rather
2002/09/15	23:04:47	45.93308306	-129.98210636	1520.639	EVT	229.160	0.870	finally a good probe site
2002/09/15	23:07:31	45.93308178	-129.98210337	1520.598	EVT	228.990	0.880	there were temperatures of 30 at this site when the barrel sampler was here, but we can't seem to get higher than 20
2002/09/15	23:08:40	45.93308192	-129.98210236	1520.659	EVT	228.680	0.880	still not hot enough, so we're moving the ICL onwards to regions of more intense flow
2002/09/15	23:09:26	45.93308294	-129.98210187	1520.632	EVT	228.430	0.900	this is the hot spot, temperature at 29.5
2002/09/15	23:09:52	45.93308328	-129.98210048	1520.605	EVT	228.290	0.880	hot spot is right by the red MTR
2002/09/15	23:10:47	45.93308282	-129.98209777	1520.612	EVT	228.330	0.910	note: bridge says there is a cold front and the possibility of a squall, we may have to change heading
2002/09/15	23:11:35	45.93308308	-129.98209654	1520.605	EVT	228.400	0.860	preparing to sample at the "hot spot" site in the crack
2002/09/15	23:12:58	45.93308373	-129.98209367	1520.680	EVT	228.340	0.890	positioning sampler
2002/09/15	23:14:12	45.93308499	-129.98209192	1520.618	EVT	228.260	0.870	temperature on Butterfield sampler 10 and holding
2002/09/15	23:14:49	45.93308556	-129.98209187	1520.666	EVT	228.330	0.870	temperature went down, went back up, leveled off, went back up again to 8
2002/09/15	23:15:32	45.93308582	-129.98209150	1520.571	EVT	228.330	0.880	temperature down to 7 but fluctuating
2002/09/15	23:15:55	45.93308592	-129.98209093	1520.557	EVT	228.370	0.880	temperature rising, currently at 21
2002/09/15	23:17:02	45.93308575	-129.98209091	1520.673	EVT	228.470	0.860	temperature went down and stopped at 12
2002/09/15	23:17:47	45.93308665	-129.98208921	1520.639	EVT	228.380	0.870	nozzle moved to edge of polypro ("it makes a good conduit"), temp back up to 18
2002/09/15	23:19:22	45.93308701	-129.98208865	1520.754	EVT	228.500	0.870	nozzle deep in the polypro
2002/09/15	23:20:28	45.93308679	-129.98208839	1520.625	EVT	228.440	0.870	temperature up to 22 here
2002/09/15	23:22:08	45.93308785	-129.98208877	1520.646	EVT	228.050	0.880	maximum temperature at this spot is 23 on T1 and 12 on T2
2002/09/15	23:22:19	45.93308796	-129.98208829	1520.714	EVT	228.150	0.880	using Piston 24 for the sample
2002/09/15	23:23:05	45.93308822	-129.98208745	1520.680	EVT	228.520	0.860	starting piston 24
2002/09/15	23:23:42	45.93308824	-129.98208790	1520.680	EVT	228.500	0.860	starting to sample
2002/09/15	23:24:29	45.93308867	-129.98208985	1520.795	EVT	228.600	0.870	we have about 2 hours worth of Butterfield sampling left to do
2002/09/15	23:25:20	45.93308894	-129.98208835	1520.693	EVT	228.590	0.870	have to move the sampler again, the temperature went down and the sampling didn't start (temp went down to 15)
2002/09/15	23:26:25	45.93308918	-129.98208504	1520.693	EVT	228.310	0.900	temperature went back up at this point, so we're starting piston 24 here after all
2002/09/15	23:26:47	45.93308898	-129.98208519	1520.550	EVT	228.290	0.900	piston 24 sampling
2002/09/15	23:33:11	45.93309180	-129.98207947	1520.734	EVT	228.780	0.860	piston 24 stopped

Event log: LEXEN 2002

Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/15	23:33:57	45.93309213	-129.98207999	1520.761	EVT	228.550	0.860	tnax 21.5 avg. 18.2 +/- 1.7, volume 708
2002/09/15	23:34:16	45.93309265	-129.98208012	1520.693	EVT	228.500	0.860	that was for piston 24
2002/09/15	23:36:13	45.93309093	-129.98207925	1520.754	EVT	228.550	0.850	waiting for temperature to stabilize
2002/09/15	23:36:19	45.93309124	-129.98207927	1520.754	EVT	228.580	0.850	starting piston 14\
2002/09/15	23:37:47	45.93309134	-129.98207820	1520.741	EVT	228.580	0.850	piston stopped for a moment because of a temperature decrease
2002/09/15	23:39:08	45.93309373	-129.98207685	1520.768	EVT	228.700	0.860	temperature is now fluctuating wildly, waiting for stabilization before restarting piston 14
2002/09/15	23:39:26	45.93309383	-129.98207628	1520.734	EVT	228.730	0.860	flush pump is on, piston is not
2002/09/15	23:41:14	45.93309463	-129.98207204	1520.673	EVT	228.620	0.860	sample started again (temp at 27)
2002/09/15	23:41:38	45.93309503	-129.98207261	1520.700	EVT	228.370	0.860	this is a new "hottest spot" in the crack
2002/09/15	23:45:44	45.93309538	-129.98207397	1520.707	EVT	228.560	0.840	stopped bag #14
2002/09/15	23:46:53	45.93309570	-129.98207459	1520.666	EVT	228.850	0.850	bag #14: Tmax=27.3 Tave=21.7 +/-2.6 vol=613mls T2=8-15
2002/09/15	23:47:04	45.93309594	-129.98207460	1520.768	EVT	228.850	0.850	now up to 34 degrees C!
2002/09/15	23:47:08	45.93309584	-129.98207486	1520.843	EVT	228.830	0.850	starting #16
2002/09/15	23:48:08	45.93309373	-129.98207754	1520.775	EVT	228.850	0.850	36 degrees C now!
2002/09/15	23:52:43	45.93309112	-129.98207877	1520.782	EVT	228.880	0.850	stopping unfiltered bag #16
2002/09/15	23:53:29	45.93309142	-129.98207732	1520.768	EVT	228.850	0.860	#16: Tmax36.5 Tave=34.8 +/-0.9 T2=18 vol=618ml
2002/09/15	23:54:22	45.93309231	-129.98207643	1520.815	EVT	228.880	0.860	starting #4
2002/09/15	23:56:45	45.93309224	-129.98207636	1520.822	EVT	228.980	0.870	firing gas tight bottle #1
2002/09/15	23:57:22	45.93309263	-129.98207729	1520.761	EVT	228.960	0.850	these are the gas tights on the fluid sampler
2002/09/15	23:57:49	45.93309289	-129.98207818	1520.883	EVT	228.930	0.860	stopping gas tight bottle #1
2002/09/15	23:58:37	45.93309330	-129.98207880	1520.775	EVT	228.910	0.860	gas tight bottle #1: T=34 degrees T2=18.4
2002/09/15	23:58:43	45.93309329	-129.98207887	1520.788	EVT	228.910	0.850	gas tight bottle #2 starting now
2002/09/15	23:59:57	45.93309324	-129.98207789	1520.822	EVT	228.900	0.840	gas tight bottle #2 stopped now T1=34.8 T2=18
2002/09/16	00:00:08	45.93309340	-129.98207796	1520.795	EVT	228.910	0.840	stopping piston #4
2002/09/16	00:01:04	45.93309359	-129.98207737	1520.877	EVT	228.940	0.860	piston#4: T max=34.9 Tave=33.7 +/- 1.2 vol=644ml T2=18
2002/09/16	00:04:10	45.93309329	-129.98207914	1520.829	EVT	228.990	0.860	starting sterivex #21
2002/09/16	00:06:08	45.93309279	-129.98208078	1520.911	EVT	228.960	0.860	both gas tight bottles are totally retracted
2002/09/16	00:17:20	45.93310095	-129.98209309	1520.931	EVT	228.940	0.860	spurt of floc just exited marker 33
2002/09/16	00:18:28	45.93310140	-129.98209382	1520.870	EVT	229.010	0.840	Paul just called marker 33 "a pretty vigorous vent"
2002/09/16	00:26:35	45.93310227	-129.98208607	1520.890	EVT	229.040	0.870	stopping sterivex #21
2002/09/16	00:27:36	45.93310203	-129.98208379	1520.945	EVT	229.030	0.820	#21: T max=34.2 Tave=30.8 +/- 1.6 T2=17.5 vol=2038mls
2002/09/16	00:32:12	45.93310409	-129.98207778	1521.019	EVT	229.000	0.820	starting RNA filter #10
2002/09/16	00:42:10	45.93310800	-129.98208112	1521.067	EVT	229.140	0.790	stopping RNA filter #10
2002/09/16	00:42:47	45.93310857	-129.98208122	1521.149	EVT	229.160	0.760	#10: Tmax=32.0 Tave=30.4 +/-0.7 T2=17 vol=1L
2002/09/16	00:43:01	45.93310862	-129.98208098	1520.999	EVT	229.210	0.780	we are finished sampling here: stowing the Butterfield intake

Event log: LEXEN 2002
Dive J2-008

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/16 00:44:03		45.93310845	-129.98207876	1521.142	EVT	229.370	0.720	going to briefly try to dislodge some rocks before Jason comes up
2002/09/16 00:45:26		45.93311062	-129.98207646	1521.074	EVT	229.450	0.780	putting the ICL in the basket
2002/09/16 00:47:12		45.93308889	-129.98204940	1520.482	EVT	310.040	2.620	moving over to another potential rock site
2002/09/16 00:48:00		45.93307812	-129.98206356	1521.992	EVT	332.820	1.260	going to try and grab one of those rocks
2002/09/16 00:48:34		45.93307837	-129.98206267	1521.951	EVT	332.680	1.390	grabbing for the rock
2002/09/16 00:49:07		45.93307813	-129.98206242	1522.012	EVT	332.780	1.360	got it!
2002/09/16 00:49:45		45.93307848	-129.98206375	1520.414	EVT	332.250	2.880	we can keep the rock
2002/09/16 00:51:12		45.93307856	-129.98206364	1520.734	EVT	332.150	2.550	stowing the rock in the basket
2002/09/16 00:51:24		45.93307812	-129.98206384	1520.734	EVT	332.030	2.590	Dave gave up his tripod for a rock
2002/09/16 00:52:16		45.93307837	-129.98206389	1520.714	EVT	331.860	2.680	rock is stower
2002/09/16 00:52:34		45.93307858	-129.98206372	1520.686	EVT	332.250	2.640	stowed
2002/09/16 00:53:16		45.93308018	-129.98206455	1518.742	EVT	333.320	4.610	birds eye view
2002/09/16 00:53:36		45.93307456	-129.98206739	1520.265	EVT	140.780	2.030	Jason is coming up
2002/09/16 00:54:45		45.93307877	-129.98206405	1519.714	EVT	67.260	3.330	tripod was 15m north of marker 33
2002/09/16 00:55:30		45.93315200	-129.98185819	1512.685	EVT	68.250	10.300	expected to be on the surface around 6:40
2002/09/16 00:56:09		45.93321772	-129.98168672	1509.259	EVT	67.250	12.770	ETA : 01:40 GMT
2002/09/16 00:59:39		45.93320280	-129.98166132	1420.421	EVT	61.360	30.000	30meters/min winch speed
2002/09/16 01:23:31		45.93251368	-129.98289319	690.859	EVT	62.520	30.000	less than half an hour before we are at 50 m
2002/09/16 01:27:53		45.93238896	-129.98339830	553.695	EVT	65.560	30.000	just saw a dwarf shark
2002/09/16 01:28:17		45.93237192	-129.98344408	541.067	EVT	66.220	30.000	blank-text
2002/09/16 01:28:19		45.93237118	-129.98344691	540.308	EVT	66.430	30.000	blank-text
2002/09/16 01:28:30		45.93236528	-129.98347281	534.933	EVT	66.830	30.000	< mesopelagic jelly
2002/09/16 01:28:45		45.93235466	-129.98349831	527.038	EVT	67.900	30.000	blank-text
2002/09/16 01:33:54		45.93219802	-129.98397084	366.135	EVT	47.560	30.000	blank-text
2002/09/16 01:43:49		45.93165960	-129.98409578	59.520	EVT	29.750	30.000	blank-text
2002/09/16 01:43:59		45.93165216	-129.98410065	54.782	EVT	28.410	30.000	we're at 50 m, stop the wench
2002/09/16 01:44:32		45.93164331	-129.98406911	38.098	EVT	36.250	30.000	make that 44 m
2002/09/16 01:45:16		45.93159781	-129.98409100	36.105	EVT	25.900	30.000	Jason is almost at surface
2002/09/16 01:47:02		45.93161470	-129.98407815	40.905	EVT	88.040	30.000	control of the winch transferred to deck crew
2002/09/16 01:51:42		45.93161470	-129.98407815	0.507	EVT	190.800	30.000	Jason at surface
2002/09/16 01:52:02		45.93161470	-129.98407815	0.294	EVT	195.490	30.000	dive is over

Event log: LEXEN 2002
Dive J2-009

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/16	15:34:04	45.93161682	-129.98408469	1.096	EVT	0.000	30.000	getting ready for J2009
2002/09/16	16:35:42	47.89389391	-129.16453477	0.671	EVT	266.790	30.000	pre-dive checkup of hydraulics
2002/09/16	16:37:17	47.89389425	-129.16453507	0.808	EVT	267.730	30.000	medea off deck
2002/09/16	16:38:19	47.89389755	-129.16453612	0.924	EVT	275.570	30.000	medea wet
2002/09/16	16:38:52	47.89388049	-129.16452133	0.856	EVT	227.420	30.000	medea off deck\
2002/09/16	16:39:36	47.89387637	-129.16448937	0.945	EVT	175.010	30.000	jason wet
2002/09/16	16:39:45	47.89387273	-129.16450875	2.369	EVT	182.090	30.000	ground fault
2002/09/16	16:40:03	47.89387298	-129.16452928	2.143	EVT	180.950	30.000	ground fault cleared
2002/09/16	16:40:58	47.89380437	-129.16448452	2.342	EVT	158.600	30.000	going down
2002/09/16	16:46:20	47.89406874	-129.16545105	57.041	EVT	105.680	30.000	50m
2002/09/16	16:56:06	47.89432301	-129.16782875	62.408	EVT	101.620	30.000	Van has control of winch, all down full
2002/09/16	17:26:09	47.89367243	-129.17190183	982.979	EVT	61.250	30.000	halfway
2002/09/16	17:53:43	47.89320656	-129.17549098	1880.451	EVT	60.410	30.000	kinda smoke looking
2002/09/16	17:57:20	47.89323401	-129.17552320	2011.157	EVT	30.070	30.000	2000m
2002/09/16	18:00:06	47.89317692	-129.17560786	2101.321	EVT	28.480	30.000	Nav Target 1 is dive site
2002/09/16	18:05:21	47.94638652	-129.09694430	2206.375	ASNAP	29.350	5.700	
2002/09/16	18:05:47	47.94640324	-129.09693003	2206.022	EVT	41.720	6.580	bottom in sight, looking for flat spot for
deployments								
2002/09/16	18:06:43	47.94645430	-129.09694304	2206.775	EVT	313.180	4.490	small lobate flows with 50cm pillows
2002/09/16	18:07:14	47.94645551	-129.09694067	2206.687	EVT	229.810	5.600	Nav 1 is currently 10m SE
2002/09/16	18:07:21	47.94645082	-129.09694959	2206.741	ASNAP	229.790	5.060	
2002/09/16	18:08:07	47.94643811	-129.09697361	2206.544	EVT	141.360	8.200	Large fissure ~ 2m wide....
2002/09/16	18:08:28	47.94639611	-129.09705546	2207.947	EVT	227.260	5.850	Moving away from fissure
2002/09/16	18:09:21	47.94629019	-129.09726119	2212.012	ASNAP	226.650	3.070	
2002/09/16	18:09:22	47.94629066	-129.09726062	2211.897	EVT	226.790	3.180	Crab...wonder what he's eating
2002/09/16	18:10:33	47.94629261	-129.09725431	2212.195	EVT	226.770	3.200	Opening swing arm with Thermal Blanket
2002/09/16	18:11:02	47.94629249	-129.09725409	2212.304	EVT	226.830	3.120	Preparing to deploy thermal blanket in Middle /
Central Valley Location								
2002/09/16	18:11:21	47.94629243	-129.09725410	2212.290	EVT	226.790	2.910	Jason fixes are pretty poor, but Chris is working on it
2002/09/16	18:11:21	47.94629243	-129.09725410	2212.290	ASNAP	226.790	2.910	
2002/09/16	18:12:28	47.94629242	-129.09725421	2212.378	EVT	226.710	3.160	Pull-pin off thermal blanket
2002/09/16	18:12:56	47.94629244	-129.09725383	2212.155	EVT	226.930	3.220	John Howland is making DVD of deployment
2002/09/16	18:13:21	47.94629265	-129.09725392	2212.229	ASNAP	226.290	3.200	
2002/09/16	18:14:35	47.94629272	-129.09725391	2212.283	EVT	226.390	2.730	Thermal Blanket in claw
2002/09/16	18:15:21	47.94629268	-129.09725391	2212.351	ASNAP	226.880	2.870	
2002/09/16	18:15:31	47.94629247	-129.09725430	2212.365	EVT	226.970	2.770	Thermal blanket was set to start recording at 1800
GMT								
2002/09/16	18:16:51	47.94628455	-129.09726756	2213.205	EVT	226.610	1.900	blank-text
2002/09/16	18:16:55	47.94628438	-129.09726749	2213.246	EVT	226.720	1.890	blank-text
2002/09/16	18:17:03	47.94628247	-129.09727064	2213.212	EVT	226.750	1.700	blank-text
2002/09/16	18:17:09	47.94628101	-129.09727250	2213.340	EVT	226.800	1.450	blank-text

Event log: LEXEN 2002
Dive J2-009

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/16	18:17:21	47.94628189	-129.09727164	2213.083	ASnap	226.690	1.770	
2002/09/16	18:17:29	47.94628155	-129.09727136	2213.354	EVT	226.800	1.500	Thermal blanket deployed! Central Valley of
		Endeavour						
2002/09/16	18:17:52	47.94628134	-129.09727147	2213.246	EVT	226.610	1.550	Still waiting for another good ROV fix
2002/09/16	18:18:33	47.94628428	-129.09726275	2213.137	EVT	226.170	1.700	blank-text
2002/09/16	18:18:37	47.94628547	-129.09725913	2213.320	EVT	226.780	1.710	blank-text
2002/09/16	18:18:42	47.94628701	-129.09725588	2213.205	EVT	227.230	1.850	blank-text
2002/09/16	18:18:46	47.94628556	-129.09725732	2213.103	EVT	226.800	1.860	blank-text
2002/09/16	18:18:51	47.94628548	-129.09725567	2213.124	EVT	225.860	1.750	blank-text
2002/09/16	18:18:56	47.94628620	-129.09725242	2213.225	EVT	226.680	2.000	blank-text
2002/09/16	18:19:11	47.94629817	-129.09724165	2210.786	EVT	228.640	4.260	blank-text
2002/09/16	18:19:21	47.94629654	-129.09724434	2212.060	ASnap	226.760	3.270	
2002/09/16	18:19:28	47.94629994	-129.09724086	2211.104	EVT	226.600	3.900	blank-text
2002/09/16	18:19:42	47.94629066	-129.09725840	2211.918	EVT	226.640	3.120	blank-text
2002/09/16	18:19:58	47.94629139	-129.09726535	2211.016	EVT	227.010	4.030	blank-text
2002/09/16	18:20:06	47.94629471	-129.09726008	2211.619	EVT	226.900	3.450	Good fix
2002/09/16	18:20:25	47.94629284	-129.09725787	2211.355	EVT	235.490	3.780	We are now preparing to deploy Janet's wood
2002/09/16	18:21:09	47.94624491	-129.09724366	2212.487	EVT	270.840	2.570	4x4's 2 white bags, two green bags, each with one
		piece of oak and fir						
2002/09/16	18:21:21	47.94623274	-129.09724287	2212.209	ASnap	270.310	2.190	
2002/09/16	18:21:56	47.94623416	-129.09726369	2212.765	EVT	270.520	1.820	Christian worked on markers, so they are bound to be
		an improvement from Janet's previous markers :-(
2002/09/16	18:22:43	47.94623408	-129.09726295	2212.636	EVT	270.510	1.900	Moved just east of thermal blanket, ~3m
2002/09/16	18:23:02	47.94623399	-129.09726241	2212.602	EVT	270.410	1.930	Swing are with wood out
2002/09/16	18:23:21	47.94623390	-129.09726255	2212.541	ASnap	270.360	2.020	
2002/09/16	18:23:45	47.94623433	-129.09726259	2212.507	EVT	270.680	1.930	Marker "We Come in Peace"
2002/09/16	18:24:05	47.94623436	-129.09726274	2212.439	EVT	270.390	1.930	But after one year of feeding, you'll become a
		museum speciam						
2002/09/16	18:24:20	47.94623380	-129.09726254	2212.453	EVT	270.330	2.090	NAv Target #2 is the deployment site
2002/09/16	18:25:06	47.94622590	-129.09727365	2212.846	EVT	270.550	1.650	Wood is deployed at LBL Nav target 2
2002/09/16	18:25:19	47.94622416	-129.09727972	2213.456	EVT	270.200	1.270	blank-text
2002/09/16	18:25:21	47.94622500	-129.09728076	2213.157	ASnap	271.190	1.340	
2002/09/16	18:25:32	47.94622462	-129.09728353	2213.368	EVT	271.110	1.030	Wood deployment is on DVD
2002/09/16	18:27:19	47.94622389	-129.09728381	2213.469	EVT	271.560	0.910	Second bundle deployed, adjacent to wood bundle 1
2002/09/16	18:27:21	47.94622367	-129.09728426	2213.469	ASnap	271.160	0.920	
2002/09/16	18:27:52	47.94622523	-129.09728246	2213.517	EVT	270.270	0.850	Janet wants the wood deployed flat on bottom, not
		stacked like firewood						
2002/09/16	18:28:29	47.94622578	-129.09728380	2213.686	EVT	270.210	0.760	Bundles 3 and 4 are deployed similarly next to others
2002/09/16	18:28:57	47.94622578	-129.09728336	2213.679	EVT	270.400	30.000	Wood is NOT to be deployed on the rock, but on
		sediment between rocks.						
2002/09/16	18:29:21	47.94622560	-129.09728342	2213.720	ASnap	270.860	0.700	

Event log: LEXEN 2002
Dive J2-009

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/16	18:29:31	47.94622636	-129.09728337	2213.713	EVT	270.900	0.790	blank-text
2002/09/16	18:29:46	47.94622600	-129.09728554	2213.761	EVT	270.020	0.760	blank-text
2002/09/16	18:29:55	47.94622582	-129.09728552	2213.822	EVT	269.970	0.710	Janet think looks good
2002/09/16	18:30:04	47.94622514	-129.09728510	2213.822	EVT	269.590	0.750	crab is already on wood
2002/09/16	18:30:56	47.94620886	-129.09727408	2211.890	EVT	319.610	1.730	Wood is deployed with one marker attached to one of the wood bundles
2002/09/16	18:31:04	47.94620149	-129.09728633	2211.999	EVT	336.670	2.010	blank-text
2002/09/16	18:31:06	47.94619879	-129.09729547	2211.586	EVT	336.100	2.770	blank-text
2002/09/16	18:31:21	47.94618831	-129.09734158	2208.611	ASNAP	335.750	6.040	
2002/09/16	18:31:50	47.94618656	-129.09734869	2211.748	EVT	346.750	3.030	blank-text
2002/09/16	18:32:36	47.94619954	-129.09734069	2214.323	EVT	349.580	30.000	blank-text
2002/09/16	18:32:51	47.94620023	-129.09733925	2214.384	EVT	349.190	30.000	Preparing to deplo the MAVS
2002/09/16	18:33:22	47.94619945	-129.09734010	2214.323	EVT	349.210	30.000	MAVS and ADCP deployment site in Central / Middle Valley of Endeavour
2002/09/16	18:33:39	47.94619960	-129.09733945	2214.364	EVT	349.360	30.000	We are approximately 200 W of the south end of MEF
2002/09/16	18:34:07	47.94619867	-129.09734093	2214.303	EVT	349.450	0.720	Picking up MAVS57 for deployment
2002/09/16	18:34:23	47.94619502	-129.09733956	2214.303	EVT	349.780	30.000	Mavs 57 deploys on first try
2002/09/16	18:34:38	47.94619328	-129.09733913	2214.181	EVT	349.780	0.750	Bottom thermister
2002/09/16	18:35:27	47.94619123	-129.09733253	2214.052	EVT	349.240	0.790	blank-text
2002/09/16	18:35:28	47.94619122	-129.09733212	2214.052	EVT	349.490	0.800	blank-text
2002/09/16	18:36:19	47.94618974	-129.09733141	2214.174	EVT	349.830	0.760	Adecp in grip
2002/09/16	18:37:01	47.94618970	-129.09733129	2214.235	EVT	350.170	0.710	working on getting ADCP handle
2002/09/16	18:37:21	47.94618932	-129.09733011	2214.187	ASNAP	349.700	0.710	
2002/09/16	18:37:45	47.94618886	-129.09732972	2214.120	EVT	350.230	0.720	ADCP deployed
2002/09/16	18:38:33	47.94616828	-129.09731828	2212.432	EVT	326.620	2.380	blank-text
2002/09/16	18:38:34	47.94616741	-129.09731724	2212.432	EVT	324.580	2.500	blank-text
2002/09/16	18:38:36	47.94616702	-129.09731536	2212.351	EVT	323.280	2.530	blank-text
2002/09/16	18:38:37	47.94616708	-129.09731313	2212.236	EVT	324.260	2.580	blank-text
2002/09/16	18:39:02	47.94617692	-129.09729032	2212.866	EVT	324.310	1.550	blank-text
2002/09/16	18:39:03	47.94617800	-129.09728911	2213.002	EVT	324.120	1.490	blank-text
2002/09/16	18:39:21	47.94618816	-129.09729654	2212.372	ASNAP	323.840	1.980	
2002/09/16	18:39:23	47.94618814	-129.09729667	2212.419	EVT	323.450	1.980	Looking face at label is 323
2002/09/16	18:40:10	47.94618798	-129.09729450	2212.399	EVT	323.070	1.920	YooHooiii!!
2002/09/16	18:40:37	47.94618949	-129.09729571	2212.575	EVT	323.090	1.770	UW marker 43 is being deployed
2002/09/16	18:41:21	47.94616689	-129.09726574	2210.800	ASNAP	320.060	3.490	
2002/09/16	18:41:38	47.94615227	-129.09724785	2211.281	EVT	320.320	3.270	UW marker 43 is deployed SE of Janet's wood by about 5m
2002/09/16	18:41:49	47.94614262	-129.09723630	2210.915	EVT	320.320	3.290	blank-text
2002/09/16	18:41:50	47.94614169	-129.09723491	2210.840	EVT	320.330	3.380	blank-text
2002/09/16	18:41:51	47.94614082	-129.09723373	2210.840	EVT	320.340	3.380	blank-text

Event log: LEXEN 2002**Dive J2-009**

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/16	18:41:55	47.94613738	-129.09722915	2210.949	EVT	320.210	3.400	blank-text
2002/09/16	18:41:58	47.94613594	-129.09722622	2210.894	EVT	320.290	3.600	blank-text
2002/09/16	18:42:05	47.94613377	-129.09721497	2208.679	EVT	320.140	5.560	blank-text
2002/09/16	18:42:22	47.94613840	-129.09719955	2200.249	EVT	320.030	14.120	Back to surface, ascent has begun
2002/09/16	18:42:31	47.94613958	-129.09719298	2195.045	EVT	319.580	18.880	Thanks to the Jason team!!
2002/09/16	18:43:21	47.94637309	-129.09742242	2189.197	ASNA	320.220	25.590	
2002/09/16	18:44:09	47.94650280	-129.09753695	2167.951	EVT	305.440	30.000	Full speed up!
2002/09/16	18:44:34	47.94651469	-129.09756162	2149.029	EVT	310.680	30.000	All deployments were recorded on DVD
2002/09/16	18:50:42	47.94657844	-129.09773360	1884.035	EVT	319.330	30.000	1900m
2002/09/16	19:33:17	47.94667394	-129.10155944	197.773	EVT	89.060	30.000	200m
2002/09/16	19:39:08	47.94667298	-129.10157480	52.092	EVT	105.150	30.000	50m
2002/09/16	19:45:02	47.94667298	-129.10157480	0.493	EVT	150.700	30.000	jason is on the surface!
2002/09/16	19:46:26	47.94667298	-129.10157480	0.349	EVT	146.830	30.000	mediais out of water
2002/09/16	19:47:02	47.94667298	-129.10157480	0.199	EVT	188.140	30.000	Medea is on the deck
2002/09/16	19:49:04	47.94667298	-129.10157480	-0.596	EVT	187.480	30.000	blank-text
2002/09/16	19:51:18	47.94667298	-129.10157480	-0.082	EVT	279.960	30.000	jason is on the deck and secured!

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/17	14:08:05	47.94665669	-129.10164075	1.061	EVT	254.860	30.000	completed prediv for JS010
2002/09/17	14:08:15	47.94665641	-129.10164060	1.061	EVT	254.210	30.000	crabbing shipfor launch
2002/09/17	14:13:21	47.94664252	-129.10159919	1.007	EVT	176.280	30.000	jason in the water
2002/09/17	14:18:53	47.94688575	-129.10212930	52.927	EVT	135.410	30.000	50 meters
2002/09/17	14:22:21	47.94693337	-129.10262897	55.700	EVT	106.550	30.000	bridge confirm control of winch
2002/09/17	14:53:19	47.94665720	-129.10720287	982.243	EVT	63.720	30.000	1000 meters
2002/09/17	15:19:23	47.94588553	-129.11074978	1841.453	EVT	62.840	30.000	depth 1837
2002/09/17	15:24:13	47.94574894	-129.11110870	2000.991	EVT	56.400	30.000	200 meters altitude
2002/09/17	15:24:32	47.94573720	-129.11112873	2011.585	EVT	57.280	30.000	2186 m is the target depth
2002/09/17	15:30:15	47.94560332	-129.11162115	2116.235	EVT	262.340	30.000	all video tapes started
2002/09/17	15:39:28	47.94567642	-129.11174652	2177.480	EVT	354.860	8.460	bottom is in sight
2002/09/17	15:40:06	47.94567616	-129.11174821	2177.060	EVT	17.580	7.370	altitude is 9 meters
2002/09/17	15:40:41	47.94567788	-129.11174498	2177.195	EVT	213.640	6.480	We saw a stack of some kind, with a 9 meter altitude
2002/09/17	15:42:58	47.94567534	-129.11175636	2182.007	EVT	15.420	2.600	bottom in sight again
2002/09/17	15:43:34	47.94567996	-129.11175454	2179.540	EVT	48.900	4.460	white staining on rock, bacterial mat
2002/09/17	15:44:33	47.94570300	-129.11176080	2179.967	EVT	177.400	2.970	on target, Raven field
2002/09/17	15:45:05	47.94569624	-129.11171027	2180.259	EVT	252.220	8.020	We are going to recover instruments here.
2002/09/17	15:45:31	47.94567932	-129.11169393	2182.061	EVT	258.350	6.450	blank-text
2002/09/17	15:45:45	47.94567977	-129.11169410	2181.350	EVT	258.560	7.140	marker 33
2002/09/17	15:45:50	47.94567967	-129.11169373	2181.655	EVT	258.550	6.890	blank-text
2002/09/17	15:47:08	47.94568011	-129.11169465	2182.210	EVT	258.610	6.400	blank-text
2002/09/17	15:47:09	47.94568009	-129.11169484	2182.231	EVT	258.500	6.380	blank-text
2002/09/17	15:47:14	47.94568013	-129.11169534	2182.203	EVT	258.490	6.540	blank-text
2002/09/17	15:47:17	47.94568006	-129.11169528	2181.885	EVT	258.510	6.670	blank-text
2002/09/17	15:47:29	47.94568011	-129.11169450	2182.149	EVT	258.490	6.560	blank-text
2002/09/17	15:47:48	47.94567990	-129.11169456	2181.987	EVT	258.520	6.650	it is marker 35 not 33
2002/09/17	15:49:13	47.94568007	-129.11169875	2181.939	EVT	316.740	6.470	north 020 heading for high temperature venting
2002/09/17	15:49:50	47.94570519	-129.11169825	2181.932	EVT	333.690	6.240	tube worms
2002/09/17	15:50:17	47.94572184	-129.11170286	2180.828	EVT	356.390	4.730	low temperature vent here
2002/09/17	15:51:41	47.94581282	-129.11167817	2180.299	EVT	359.230	3.040	blank-text
2002/09/17	15:51:51	47.94581641	-129.11167841	2179.771	EVT	358.760	3.450	tube worms
2002/09/17	15:52:04	47.94581565	-129.11166223	2180.265	EVT	358.410	3.210	blank-text
2002/09/17	15:52:09	47.94581571	-129.11165157	2180.089	EVT	358.390	3.830	blank-text
2002/09/17	15:52:27	47.94581534	-129.11164285	2180.164	EVT	358.930	4.150	blank-text
2002/09/17	15:52:33	47.94581537	-129.11164347	2180.252	EVT	359.000	4.270	blank-text
2002/09/17	15:52:34	47.94581536	-129.11164351	2180.252	EVT	358.990	4.280	blank-text
2002/09/17	15:53:00	47.94581553	-129.11164409	2179.974	EVT	358.890	4.330	close up of tuve worms, previous grab
2002/09/17	15:53:05	47.94581522	-129.11164440	2180.096	EVT	358.840	4.270	blank-text
2002/09/17	15:54:41	47.94581399	-129.11164699	2180.218	EVT	316.200	4.870	We are waiting for Medea, but then we will probe
		this site with an ICL for temperature.						
2002/09/17	15:55:58	47.94581547	-129.11164306	2180.109	EVT	331.680	4.990	blank-text

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/17	15:56:05	47.94581542	-129.11164312	2180.279	EVT	331.570	5.080	blank-text
2002/09/17	15:56:15	47.94581563	-129.11164312	2180.164	EVT	331.640	4.650	searching for flow
2002/09/17	15:56:53	47.94582666	-129.11164216	2180.245	EVT	331.330	4.420	possible venting to the right of the clump of tube worms
2002/09/17	15:57:32	47.94584117	-129.11162364	2181.797	EVT	331.810	4.180	moving in for a closer look
2002/09/17	15:58:23	47.94584171	-129.11162031	2181.580	EVT	331.610	4.370	flow on lobe of tube worms
2002/09/17	15:59:01	47.94584199	-129.11162082	2181.885	EVT	331.610	4.290	target 3 was the MAV site
2002/09/17	16:00:50	47.94583278	-129.11156617	2184.907	EVT	331.410	3.830	blank-text
2002/09/17	16:02:10	47.94585393	-129.11157702	2184.047	EVT	306.460	4.070	back on the move, not enough flow visible for sampling
2002/09/17	16:02:32	47.94585386	-129.11157701	2184.047	EVT	306.520	4.110	blank-text
2002/09/17	16:02:56	47.94586231	-129.11159366	2183.613	EVT	306.670	4.170	blank-text
2002/09/17	16:03:52	47.94586247	-129.11159393	2183.369	EVT	306.550	4.190	this site has many boulders, would be hard to set down in it.
2002/09/17	16:04:38	47.95422351	-129.09673647	2183.478	EVT	307.030	4.430	blank-text
2002/09/17	16:04:52	47.95423036	-129.09674923	2182.895	EVT	306.460	4.110	blank-text
2002/09/17	16:04:53	47.95423126	-129.09675141	2182.624	EVT	306.390	4.350	blank-text
2002/09/17	16:04:55	47.95423144	-129.09675252	2182.752	EVT	305.720	4.180	blank-text
2002/09/17	16:05:25	47.95423197	-129.09675341	2182.935	EVT	298.590	4.100	crab within tube worms, previous grab
2002/09/17	16:05:52	47.95424026	-129.09674712	2183.139	EVT	298.770	3.320	blank-text
2002/09/17	16:06:01	47.95424231	-129.09674568	2182.915	EVT	298.450	3.430	blank-text
2002/09/17	16:06:35	47.95424399	-129.09674577	2183.132	EVT	297.380	2.890	brown bacterial stuff like we saw at Axial.
2002/09/17	16:09:36	47.95424384	-129.09675549	2183.179	EVT	298.180	2.350	blank-text
2002/09/17	16:10:48	47.95424390	-129.09675636	2183.152	EVT	298.320	2.330	2.1 is the background temp. on ICL
2002/09/17	16:10:50	47.95424376	-129.09675650	2183.105	EVT	298.430	2.330	blank-text
2002/09/17	16:11:05	47.95424345	-129.09675639	2183.200	EVT	297.700	2.300	4.1 degrees
2002/09/17	16:11:23	47.95424310	-129.09675608	2183.193	EVT	298.140	2.380	5.0 degrees
2002/09/17	16:11:45	47.95424252	-129.09675456	2183.247	EVT	298.170	2.360	6.4 max so far
2002/09/17	16:12:00	47.95424274	-129.09675441	2183.084	EVT	298.300	2.390	4.7
2002/09/17	16:12:13	47.95424275	-129.09675431	2183.030	EVT	298.290	2.380	4.7
2002/09/17	16:12:26	47.95424249	-129.09675402	2183.152	EVT	298.170	2.330	6.7
2002/09/17	16:12:32	47.95424243	-129.09675393	2183.193	EVT	297.760	2.350	7.1
2002/09/17	16:12:40	47.95424211	-129.09675333	2183.220	EVT	297.580	2.310	7.1
2002/09/17	16:12:49	47.95424241	-129.09675264	2183.261	EVT	296.710	2.350	8.6
2002/09/17	16:13:45	47.95424176	-129.09675245	2183.261	EVT	298.590	2.240	We were looking for a target of 30 degrees. It wasn't here, so we are stowing the probe.
2002/09/17	16:14:44	47.95426114	-129.09672712	2182.264	EVT	298.990	2.230	blank-text
2002/09/17	16:15:02	47.95426987	-129.09673634	2182.197	EVT	298.690	1.760	blank-text
2002/09/17	16:15:54	47.95428046	-129.09674219	2182.298	EVT	298.630	1.580	flow
2002/09/17	16:16:42	47.95428218	-129.09674510	2182.441	EVT	301.030	1.220	Medea was moving, so we are heading for the white smoker 100 meters away.

Event log: LEXEN 2002

Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/17	16:21:46	47.95429197	-129.09681610	2179.120	EVT	24.360	1.410	spider crab to the right
2002/09/17	16:23:48	47.95435162	-129.09678835	2176.653	EVT	337.780	7.130	blank-text
2002/09/17	16:28:29	47.95446958	-129.09674988	2173.163	EVT	68.700	5.620	blank-text
2002/09/17	16:28:38	47.95446870	-129.09674727	2173.427	EVT	68.940	5.650	blank-text
2002/09/17	16:29:03	47.95448939	-129.09667414	2173.244	EVT	67.980	6.160	boulder on the way to target
2002/09/17	16:31:34	47.95473941	-129.09651454	2171.740	EVT	20.560	4.380	broken pillow basalts
2002/09/17	16:31:53	47.95476435	-129.09652095	2171.035	EVT	21.370	2.830	35 meters to go
2002/09/17	16:32:41	47.95477960	-129.09660407	2168.575	EVT	20.360	5.840	target is nav 4 but there is a 45 meter offset to the SW
2002/09/17	16:35:42	47.95491320	-129.09655512	2161.703	EVT	20.720	6.200	fish
2002/09/17	16:36:08	47.95491312	-129.09655511	2161.784	EVT	20.800	6.190	blank-text
2002/09/17	16:36:51	47.95498173	-129.09652532	2159.846	EVT	20.870	3.730	sulfide debris?
2002/09/17	16:37:13	47.95498597	-129.09652666	2159.690	EVT	20.590	3.540	15 meters to target
2002/09/17	16:38:25	47.95499344	-129.09653592	2159.215	EVT	247.570	2.830	blank-text
2002/09/17	16:38:50	47.95500143	-129.09654627	2159.392	EVT	16.780	3.310	extinct sulfide in previous grab
2002/09/17	16:39:37	47.95500944	-129.09653166	2159.690	EVT	11.820	2.210	tube worms
2002/09/17	16:41:50	47.95505665	-129.09652960	2158.768	EVT	221.460	6.480	blank-text
2002/09/17	16:42:25	47.95507065	-129.09652578	2158.741	EVT	292.820	6.680	another grab of extinct sulfide, previous grab
2002/09/17	16:43:38	47.95508739	-129.09648315	2164.265	EVT	40.800	1.000	blank-text
2002/09/17	16:44:41	47.95507874	-129.09637692	2167.043	EVT	55.990	0.730	blank-text
2002/09/17	16:44:57	47.95508759	-129.09635105	2165.864	EVT	53.400	3.320	weathered sulfide chimney
2002/09/17	16:45:26	47.95509911	-129.09633038	2165.451	EVT	51.740	1.960	tube worms present below
2002/09/17	16:46:53	47.95509116	-129.09632248	2165.315	EVT	49.360	2.500	extinct sulfides are along the western boundary fault.
2002/09/17	16:54:32	47.95512805	-129.09619120	2167.599	EVT	265.660	15.640	blank-text
2002/09/17	16:54:33	47.95512796	-129.09619134	2167.599	EVT	265.610	15.580	blank-text
2002/09/17	16:54:36	47.95512799	-129.09619151	2167.552	EVT	265.640	15.790	blank-text
2002/09/17	16:54:42	47.95512801	-129.09619143	2167.443	EVT	265.580	15.700	blank-text
2002/09/17	16:57:28	47.95516570	-129.09615430	2171.733	EVT	252.730	10.720	tube worms
2002/09/17	16:58:11	47.95516554	-129.09615489	2171.814	EVT	252.830	10.700	tube worms are on a cliff
2002/09/17	16:58:40	47.95516529	-129.09615506	2171.909	EVT	253.010	10.630	the dark spots might be higher temperature sites
2002/09/17	16:59:26	47.95509719	-129.09620462	2170.635	EVT	286.380	15.560	octopus
2002/09/17	16:59:36	47.95509592	-129.09620487	2169.951	EVT	286.890	16.140	blank-text
2002/09/17	17:00:32	47.95509866	-129.09620219	2170.202	EVT	287.530	15.510	no flow was seen in dark spots among the tube worms.
2002/09/17	17:01:07	47.95512617	-129.09618773	2170.276	EVT	292.560	14.960	blank-text
2002/09/17	17:02:07	47.95514264	-129.09617557	2169.971	EVT	298.080	13.800	octopus
2002/09/17	17:02:26	47.95512778	-129.09618773	2170.107	EVT	297.670	14.800	blank-text
2002/09/17	17:02:29	47.95512760	-129.09618759	2170.202	EVT	297.260	14.720	blank-text
2002/09/17	17:02:43	47.95512687	-129.09619074	2170.351	EVT	297.860	14.680	blank-text
2002/09/17	17:02:50	47.95512436	-129.09619283	2170.107	EVT	297.740	15.150	blank-text
2002/09/17	17:03:41	47.95511433	-129.09617271	2170.147	EVT	284.470	16.240	frame grabs of octopus and spider crab, nearly touching each other.

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/17	17:10:14	47.95503979	-129.09618959	2182.502	EVT	326.250	2.780	tube worms, spider crab
2002/09/17	17:10:16	47.95503971	-129.09619003	2182.420	EVT	326.600	2.500	blank-text
2002/09/17	17:10:41	47.95503884	-129.09619051	2182.163	EVT	326.230	2.910	snails
2002/09/17	17:11:01	47.95503859	-129.09619021	2181.946	EVT	326.100	3.050	extinct spire
2002/09/17	17:12:21	47.95497255	-129.09619977	2181.594	EVT	271.330	3.690	mini chimney like protrusions
2002/09/17	17:12:29	47.95497114	-129.09619935	2182.014	EVT	271.120	3.400	blank-text
2002/09/17	17:12:38	47.95497101	-129.09619951	2182.332	EVT	271.750	3.270	blank-text
2002/09/17	17:13:08	47.95497199	-129.09619902	2181.946	EVT	272.380	3.490	lots of flow here, will do icl
2002/09/17	17:13:43	47.95497202	-129.09619884	2182.061	EVT	271.950	3.350	blank-text
2002/09/17	17:14:30	47.95497373	-129.09622832	2180.211	EVT	255.290	3.300	waiting for medea to stop, but we see a potential
sample site								
2002/09/17	17:16:19	47.95497269	-129.09623810	2181.167	EVT	258.150	2.220	preparing to take icl
2002/09/17	17:17:12	47.95497241	-129.09623707	2181.146	EVT	257.930	2.310	blank-text
2002/09/17	17:17:32	47.95497228	-129.09623632	2181.051	EVT	257.920	2.330	12 degrees
2002/09/17	17:17:40	47.95497209	-129.09623592	2181.079	EVT	257.900	2.160	20
2002/09/17	17:17:47	47.95497192	-129.09623596	2181.112	EVT	257.970	2.330	22 degrees
2002/09/17	17:17:57	47.95497193	-129.09623593	2181.079	EVT	257.940	2.340	25 degrees
2002/09/17	17:18:13	47.95497194	-129.09623605	2181.018	EVT	257.910	2.160	32 degrees
2002/09/17	17:19:05	47.95497184	-129.09623727	2180.997	EVT	257.880	2.180	stowing ICL, we will get Butterfield probe
2002/09/17	17:25:43	47.95499077	-129.09626414	2181.058	EVT	257.760	2.200	Butterfield probe maxed out at 36\
2002/09/17	17:27:09	47.95499577	-129.09627147	2181.099	EVT	257.770	2.320	Rebooting Butterfield sampler
2002/09/17	17:29:27	47.95500182	-129.09627742	2181.038	EVT	257.710	2.310	Starting Filtered Piston #4
2002/09/17	17:30:35	47.95500298	-129.09627870	2181.038	EVT	257.590	2.130	The light that looks at the Butterfield sampler pistons
is not working								
2002/09/17	17:30:54	47.95500349	-129.09627935	2181.187	EVT	257.690	2.310	Sample stopped, light is working
2002/09/17	17:31:43	47.95500547	-129.09628148	2181.119	EVT	257.690	2.320	restarting piston 4
2002/09/17	17:41:40	47.95502072	-129.09630922	2181.255	EVT	257.410	2.310	test entry
2002/09/17	17:43:02	47.95502240	-129.09631442	2181.241	EVT	257.360	2.130	piston 4 stopped 17:36
2002/09/17	17:43:19	47.95502281	-129.09631617	2181.133	EVT	257.340	2.330	tmax 38.9 tavg 37.8 vol 709ml
2002/09/17	17:43:36	47.95502306	-129.09631780	2181.255	EVT	257.340	2.320	unfiltered bag 18 started 17:38
2002/09/17	17:45:10	47.95502439	-129.09632713	2181.255	EVT	257.330	2.320	stopped sample
2002/09/17	17:45:36	47.95502419	-129.09632872	2181.336	EVT	257.320	2.320	tmax 38.9 tavg 38.4 std.dev. 3.4 vol 608ml
2002/09/17	17:46:01	47.95502471	-129.09633104	2181.194	EVT	257.330	2.320	correction std. dev= 0.34
2002/09/17	17:46:40	47.95502525	-129.09633612	2181.106	EVT	257.330	2.300	chris:best fix on fish we're going to get
2002/09/17	17:46:46	47.95502523	-129.09633700	2181.207	EVT	257.300	2.310	started sterivex 21
2002/09/17	17:57:31	47.95501042	-129.09632594	2181.180	EVT	257.260	2.220	stopped sample
2002/09/17	17:57:59	47.95500812	-129.09632134	2181.207	EVT	257.260	2.220	1001ml tmax 39.3 tavg 38.5 std. dev .56 t2=24.3
2002/09/17	17:58:04	47.95500790	-129.09632065	2181.275	EVT	257.230	2.210	done fluid sampling
2002/09/17	18:06:22	47.95491362	-129.09608802	2174.376	EVT	256.370	8.270	blank-text
2002/09/17	18:06:42	47.95491385	-129.09608425	2174.125	EVT	256.410	8.490	trying to find a more suitable

Event log: LEXEN 2002

Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/17	18:07:25	47.95492083	-129.09609274	2173.909	EVT	225.070	6.950	fish, also trying to find a more suitable landing site
								and vent for the Lang sampler
2002/09/17	18:07:36	47.95492798	-129.09610196	2173.854	EVT	226.660	6.170	blank-text
2002/09/17	18:08:05	47.95492701	-129.09609960	2174.037	EVT	226.650	6.460	lots of shimmering flow here
2002/09/17	18:09:00	47.95494292	-129.09613704	2173.902	EVT	212.320	3.260	very rugged relief
2002/09/17	18:09:14	47.95493717	-129.09614077	2172.404	EVT	212.610	4.780	extinct chimney
2002/09/17	18:09:42	47.95493028	-129.09614678	2172.119	EVT	212.650	5.010	blank-text
2002/09/17	18:09:54	47.95493074	-129.09614519	2172.573	EVT	212.600	4.820	extinct spire
2002/09/17	18:10:17	47.95492578	-129.09614918	2170.717	EVT	212.700	6.190	blank-text
2002/09/17	18:10:49	47.95492086	-129.09615453	2170.384	EVT	212.400	5.740	behive structure on tope of vent
2002/09/17	18:11:33	47.95491677	-129.09616760	2169.625	EVT	212.820	5.960	blank-text
2002/09/17	18:12:01	47.95491667	-129.09616875	2169.822	EVT	212.700	5.690	possible sample site
2002/09/17	18:12:50	47.95491319	-129.09617190	2169.876	EVT	212.720	5.640	about to knock the top off for sampling
2002/09/17	18:13:35	47.95491194	-129.09617383	2169.612	EVT	212.490	5.520	blank-text
2002/09/17	18:13:39	47.95491186	-129.09617389	2169.666	EVT	212.540	5.590	blank-text
2002/09/17	18:13:43	47.95491190	-129.09617335	2169.653	EVT	212.580	5.590	blank-text
2002/09/17	18:14:08	47.95491193	-129.09617394	2169.720	EVT	212.660	5.500	probable barite/anhydrite ball on top
2002/09/17	18:14:33	47.95491199	-129.09617440	2169.537	EVT	212.250	5.680	blank-text
2002/09/17	18:14:53	47.95491199	-129.09617425	2169.639	EVT	212.980	5.380	blank-text
2002/09/17	18:15:12	47.95491189	-129.09617402	2169.741	EVT	212.710	5.350	blank-text
2002/09/17	18:15:14	47.95491189	-129.09617403	2169.741	EVT	212.630	5.350	blank-text
2002/09/17	18:15:15	47.95491190	-129.09617420	2169.625	EVT	212.610	5.450	blank-text
2002/09/17	18:15:29	47.95491204	-129.09617406	2169.747	EVT	212.470	5.330	top of spire
2002/09/17	18:16:07	47.95491202	-129.09617402	2169.632	EVT	212.630	5.610	icl in flow
2002/09/17	18:16:20	47.95491204	-129.09617410	2169.693	EVT	212.570	5.260	icl 40.0 climbing
2002/09/17	18:16:36	47.95491202	-129.09617410	2169.775	EVT	212.660	5.280	190 degrees
2002/09/17	18:16:58	47.95491205	-129.09617427	2169.605	EVT	212.620	5.570	40
2002/09/17	18:17:08	47.95491219	-129.09617423	2169.564	EVT	212.490	5.590	204 was the max
2002/09/17	18:18:40	47.95491205	-129.09617279	2169.863	EVT	212.930	5.080	blank-text
2002/09/17	18:19:23	47.95491248	-129.09617319	2169.842	EVT	212.730	4.930	150 degrees
2002/09/17	18:19:45	47.95491264	-129.09617382	2170.032	EVT	212.630	4.830	210
2002/09/17	18:19:57	47.95491273	-129.09617385	2169.958	EVT	212.510	4.870	213
2002/09/17	18:21:16	47.95492069	-129.09616764	2168.616	EVT	212.980	7.240	maximum temperature 213 degrees
2002/09/17	18:23:46	47.95491589	-129.09618130	2169.646	EVT	206.970	5.100	d
2002/09/17	18:24:10	47.95491587	-129.09618146	2169.700	EVT	206.610	5.340	dropped the ICL
2002/09/17	18:26:05	47.95491619	-129.09618103	2169.598	EVT	206.680	5.030	icl retrieved
2002/09/17	18:26:57	47.95491619	-129.09618081	2169.632	EVT	206.510	5.180	blank-text
2002/09/17	18:28:17	47.95491639	-129.09618070	2169.592	EVT	206.640	5.040	since we knock off more of the structure, we are
								going to take temperature measurements again.
2002/09/17	18:29:30	47.95491649	-129.09618060	2169.619	EVT	206.490	5.080	212 degrees
2002/09/17	18:31:59	47.95491681	-129.09618068	2169.646	EVT	206.760	5.090	preparing to take major sampler 15

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/17	18:32:25	47.95491685	-129.09618084	2169.612	EVT	206.470	5.070	red tape is all over it
2002/09/17	18:33:22	47.95491699	-129.09618062	2169.700	EVT	207.070	4.240	blank-text
2002/09/17	18:35:47	47.95491762	-129.09618027	2169.659	EVT	206.890	4.230	blank-text
2002/09/17	18:36:40	47.95491777	-129.09618000	2169.659	EVT	206.470	4.340	too much background shimmer to see the tattle tail
2002/09/17	18:37:51	47.95491781	-129.09618026	2169.686	EVT	206.460	4.320	bottle filling
2002/09/17	18:38:09	47.95491779	-129.09618039	2169.714	EVT	206.370	4.360	sample done
2002/09/17	18:39:56	47.95491788	-129.09618013	2169.653	EVT	206.310	4.120	major 15 at 212 degrees
2002/09/17	18:44:52	47.95491168	-129.09608244	2169.707	EVT	256.130	13.340	going to the base to look for a Lang sampling site
2002/09/17	18:55:59	47.95484447	-129.09601567	2172.824	EVT	244.840	15.160	no location here for the lang sampler
2002/09/17	18:56:17	47.95483186	-129.09602322	2172.682	EVT	191.760	12.160	moving to MAVS land
2002/09/17	19:16:56	47.95406405	-129.09669215	2178.822	EVT	170.990	4.300	we are at the MAVS current meter and HOBO string
2002/09/17	19:17:18	47.95403953	-129.09668832	2180.835	EVT	180.780	2.370	blank-text
2002/09/17	19:17:42	47.95404191	-129.09668704	2182.251	EVT	184.740	1.630	blank-text
2002/09/17	19:18:05	47.95402582	-129.09669040	2182.088	EVT	186.930	1.290	blank-text
2002/09/17	19:20:00	47.95400240	-129.09666348	2183.959	EVT	234.730	1.060	blank-text
2002/09/17	19:20:18	47.95399848	-129.09666721	2184.304	EVT	229.860	2.180	blank-text
2002/09/17	19:21:24	47.95400062	-129.09667143	2184.054	EVT	234.840	0.700	at this site we will be retrieving marker 35
2002/09/17	19:22:20	47.95399968	-129.09666728	2184.094	EVT	234.450	0.690	marker 35 in Jason's basket
2002/09/17	19:23:28	47.95400883	-129.09667826	2183.979	EVT	234.710	0.720	grabbing the MAV and placing it on Jason's basket
	hook							
2002/09/17	19:25:21	47.95400695	-129.09667230	2183.979	EVT	271.040	3.560	grabbing the MAV
2002/09/17	19:25:26	47.95400670	-129.09667252	2183.830	EVT	272.420	3.140	blank-text
2002/09/17	19:25:27	47.95400663	-129.09667255	2183.830	EVT	272.760	3.310	blank-text
2002/09/17	19:25:32	47.95400641	-129.09667275	2183.972	EVT	274.100	3.400	blank-text
2002/09/17	19:25:42	47.95400554	-129.09667284	2183.823	EVT	276.810	3.990	blank-text
2002/09/17	19:25:47	47.95400657	-129.09667325	2183.254	EVT	276.540	4.520	blank-text
2002/09/17	19:26:06	47.95400720	-129.09667242	2179.662	EVT	276.960	8.390	blank-text
2002/09/17	19:26:57	47.95400735	-129.09667205	2180.130	EVT	276.390	7.790	now placing the MAV on Jason's basket hook
2002/09/17	19:29:27	47.95400747	-129.09667217	2180.137	EVT	276.330	7.760	hooked
2002/09/17	19:30:35	47.95400725	-129.09667169	2180.150	EVT	276.340	7.780	now grabbing the float of marker 35 to push it out of
	the way of the pan and tilt so we can see where we are going while transiting							
2002/09/17	19:41:05	47.95346095	-129.09676899	2158.294	EVT	170.350	20.460	we are heading to our elevator launch site
2002/09/17	20:37:22	47.94690753	-129.09704147	2199.436	EVT	183.230	14.420	we are on site and ready to deploy the elevator
2002/09/17	20:48:13	47.94615143	-129.09692026	2199.036	EVT	183.540	16.050	the elevator is on it's way down - launched 8 minutes
	ago							
2002/09/17	21:09:21	47.94665577	-129.09704205	2204.925	EVT	18.860	9.810	The cable for the ICL looks sort of toasted
2002/09/17	21:09:48	47.94665023	-129.09704326	2205.169	EVT	19.420	9.450	Still waiting for the elevator
2002/09/17	21:23:04	47.94737591	-129.09737838	2204.478	EVT	4.580	8.910	We are having trouble getting a signal from the
	elevator							
2002/09/17	21:25:38	47.94737508	-129.09737772	2204.450	EVT	4.610	8.890	Bob thinks the elevator is on the bottom now
2002/09/17	21:27:03	47.94741570	-129.09742217	2204.749	EVT	4.530	8.510	We are going to interrogate the elevator from top lab

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/17	21:32:51	47.94729199	-129.09741440	2204.498	EVT	215.470	8.620	We're getting returns now
2002/09/17	21:34:57	47.94717525	-129.09729196	2204.545	EVT	174.810	8.460	We have definite fixes now
2002/09/17	21:40:59	47.94696337	-129.09711159	2204.444	EVT	148.840	8.710	moving to the elevator
2002/09/17	21:45:26	47.94673703	-129.09682441	2204.782	EVT	149.160	7.720	Continuing to head south
2002/09/17	21:47:33	47.94657187	-129.09653136	2196.427	EVT	134.920	14.820	open the pod bay doors hal
2002/09/17	21:49:22	47.94643339	-129.09641817	2201.740	EVT	139.460	10.630	Bottom in view
2002/09/17	21:49:39	47.94642764	-129.09640229	2196.068	EVT	138.070	17.500	Bottom no longer in view
2002/09/17	21:50:47	47.94636589	-129.09624606	2198.758	EVT	124.560	8.710	B
2002/09/17	21:53:33	47.94621214	-129.09596623	2197.627	EVT	193.130	14.750	Still looking for the elevator
2002/09/17	21:58:00	47.94601396	-129.09561027	2198.000	EVT	168.300	10.440	We've spotted the elevator- yeah!
2002/09/17	21:59:30	47.94599518	-129.09560363	2197.959	EVT	167.020	9.890	moving Marker 35 thermistor to side of the basket
2002/09/17	22:01:24	47.94599477	-129.09560402	2198.088	EVT	167.080	9.900	Picking up the recovered MAV from Jason
2002/09/17	22:03:43	47.94599512	-129.09560375	2197.932	EVT	167.130	10.030	Crusty MAV
2002/09/17	22:04:20	47.94595936	-129.09559145	2202.052	EVT	166.730	5.230	Putting the crusty MAV into the elevator
2002/09/17	22:04:27	47.94594597	-129.09559960	2202.119	EVT	146.170	4.570	Elevator is sitting on a talus slope from the east wall
2002/09/17	22:05:28	47.94591775	-129.09559718	2201.889	EVT	101.290	3.810	elevator
2002/09/17	22:07:26	47.94591774	-129.09559726	2202.011	EVT	102.120	3.520	Having some trouble putting the MAV in its tube in the elevator
2002/09/17	22:13:36	47.94591234	-129.09559940	2202.323	EVT	96.880	3.130	This is a two arm operation
2002/09/17	22:16:52	47.94591282	-129.09560286	2201.598	EVT	96.810	3.690	Using both arms to try to get the MAV in the elevator
2002/09/17	22:22:23	47.94590804	-129.09560979	2202.086	EVT	96.730	3.200	Still trying to figure out how to get this MAV in
2002/09/17	22:26:01	47.94591093	-129.09561558	2204.593	EVT	98.400	1.150	Placing the MAV down and picking it up again
2002/09/17	22:30:43	47.94590663	-129.09562031	2204.037	EVT	120.270	1.820	Re-positioning to pick the MAV up
2002/09/17	22:32:56	47.94591185	-129.09562778	2201.774	EVT	108.960	3.880	We have picked up the MAV again
2002/09/17	22:36:17	47.94591433	-129.09561749	2202.201	EVT	109.490	3.380	The MAV was placed in the elevator successfully
2002/09/17	22:39:07	47.94590470	-129.09558986	2199.538	EVT	66.080	5.610	Picking up the elevator
2002/09/17	22:42:01	47.94592093	-129.09560196	2199.253	EVT	84.160	5.870	grabbing the elevator
2002/09/17	22:43:48	47.94592202	-129.09558668	2199.151	EVT	85.050	6.600	lifting elevator
2002/09/17	22:46:03	47.94591984	-129.09559789	2201.462	EVT	283.300	2.780	lost hold of elevator
2002/09/17	22:50:02	47.94591884	-129.09557776	2201.008	EVT	282.160	2.430	bunch of particulate matter around the elevator
2002/09/17	22:54:34	47.94591807	-129.09559279	2201.422	EVT	310.740	2.410	grabbing the elevator again
2002/09/17	22:58:09	47.94592239	-129.09559644	2198.433	EVT	316.660	5.280	starting to move the elevator
2002/09/17	22:58:10	47.94592214	-129.09559609	2198.325	EVT	316.660	5.310	blank-text
2002/09/17	23:02:02	47.94594096	-129.09562453	2197.031	EVT	316.870	8.340	transit
2002/09/17	23:02:11	47.94594258	-129.09562679	2196.800	EVT	316.930	8.630	moving elevator
2002/09/17	23:25:07	47.94711434	-129.09685056	2196.848	EVT	335.140	16.010	blank-text
2002/09/17	23:59:09	47.94852755	-129.09892483	2181.343	EVT	322.070	14.930	retracting biobox
2002/09/18	00:02:35	47.94858582	-129.09893641	2192.992	EVT	321.330	2.580	lost hold of elevator
2002/09/18	00:02:48	47.94858445	-129.09893445	2192.958	EVT	322.160	2.250	blank-text
2002/09/18	00:05:35	47.94857989	-129.09892739	2193.751	EVT	312.760	1.670	blank-text
2002/09/18	00:06:03	47.94858354	-129.09893253	2194.618	EVT	314.200	0.940	checking out the elevator, going to remove something

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18	00:06:48	47.94858519	-129.09893996	2195.120	EVT	317.390	0.830	we have to stash one used major and pick up two unused majors
2002/09/18	00:09:41	47.94859260	-129.09898160	2195.221	EVT	315.620	1.080	blank-text
2002/09/18	00:13:30	47.94859124	-129.09899595	2195.255	EVT	315.260	1.520	grabbing used major from Raven
2002/09/18	00:13:51	47.94859636	-129.09899041	2195.106	EVT	315.270	0.830	putting used major in elevator
2002/09/18	00:20:34	47.94864495	-129.09900922	2195.275	EVT	133.430	0.740	used major in milk carton in elevator
2002/09/18	00:21:27	47.94864845	-129.09901036	2195.425	EVT	133.540	0.730	used major stashed
2002/09/18	00:23:08	47.94867049	-129.09901154	2195.343	EVT	133.720	0.720	the plan is to deploy the short-term MAV, go to Easter Island, then go to the thermal blanket
2002/09/18	00:24:47	47.94868335	-129.09899401	2194.212	EVT	137.060	1.730	crab at elevator
2002/09/18	00:27:29	47.94867517	-129.09896762	2194.367	EVT	227.730	1.160	grabbing short term MAV
2002/09/18	00:29:14	47.94867261	-129.09896440	2194.022	EVT	227.590	1.450	which MAV is which?
2002/09/18	00:31:10	47.94867478	-129.09895647	2194.252	EVT	227.490	1.390	picked up number 56
2002/09/18	00:31:23	47.94867723	-129.09895258	2194.212	EVT	227.230	1.350	picked up MAV number 56
2002/09/18	00:41:18	47.94848126	-129.09908185	2191.149	EVT	209.980	4.360	MAV number 56 is a short term MAV and we are taking it to Easter Island
2002/09/18	00:56:18	47.94796054	-129.09931823	2191.853	EVT	153.980	4.570	we are about 15m south of where MAV 56 is to be deployed
2002/09/18	00:59:22	47.94789897	-129.09927229	2192.057	EVT	154.020	4.500	is that Bastille?
2002/09/18	01:00:33	47.94790389	-129.09928043	2192.213	EVT	239.130	4.170	there it is!
2002/09/18	01:01:27	47.94792188	-129.09933387	2191.880	EVT	235.500	4.650	we are going to pick up the MAV already at marker 33 and deploy MAV 56 there
2002/09/18	01:02:16	47.94792974	-129.09936658	2193.202	EVT	211.610	3.250	here we are at Easter Island
2002/09/18	01:04:15	47.94792887	-129.09936741	2192.734	EVT	192.390	3.590	getting closer to marker 33
2002/09/18	01:04:36	47.94791631	-129.09936986	2194.388	EVT	193.800	1.740	tube worms
2002/09/18	01:04:54	47.94791037	-129.09936898	2194.720	EVT	193.260	1.470	there is MAV 48 which we are picking up
2002/09/18	01:05:29	47.94790903	-129.09936467	2194.462	EVT	198.670	1.790	another view of MAV 48
2002/09/18	01:06:33	47.94790982	-129.09936582	2195.174	EVT	193.320	1.380	HOBO chain is the thing with red stripes
2002/09/18	01:08:06	47.94791238	-129.09936679	2195.052	EVT	193.180	1.450	putting MAV 56 down
2002/09/18	01:09:09	47.94791281	-129.09936611	2195.038	EVT	192.970	1.470	positioning MAV 56
2002/09/18	01:09:45	47.94791372	-129.09936464	2195.018	EVT	193.280	1.480	MAV 56 bumped MAV 48 a little bit
2002/09/18	01:10:49	47.94791401	-129.09936341	2195.099	EVT	192.840	1.430	finding a new spot for MAV56 on the other side of MAV48
2002/09/18	01:13:29	47.94791160	-129.09936086	2195.140	EVT	193.280	1.440	MAV56 seems to be stuck on Jason's claw: it doesn't want to come off!
2002/09/18	01:13:45	47.94791165	-129.09936112	2195.174	EVT	193.320	1.410	we finally got it free
2002/09/18	01:13:58	47.94791164	-129.09936108	2195.113	EVT	193.240	1.410	MAV56 is in position
2002/09/18	01:16:42	47.94790854	-129.09935601	2195.120	EVT	193.300	1.470	MAV56 is deployed!
2002/09/18	01:17:50	47.94790862	-129.09935536	2195.120	EVT	193.380	1.440	we are happy with MAV56's position (about half a meter from MAV48)
2002/09/18	01:18:29	47.94790896	-129.09935557	2195.099	EVT	193.490	1.500	we are picking up MAV48

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18	01:19:28	47.94790923	-129.09935524	2195.242	EVT	193.760	1.370	MAV48's sidearm is going up
2002/09/18	01:22:19	47.94791353	-129.09937106	2194.306	EVT	193.260	1.130	Jason is headed we are now going to pick up HOB chain 33
2002/09/18	01:23:23	47.94791259	-129.09934457	2194.110	EVT	218.280	2.210	nav target 61=S
2002/09/18	01:23:53	47.94790607	-129.09933902	2194.144	EVT	226.940	2.310	nav target 61=S and M
2002/09/18	01:25:09	47.94789532	-129.09933658	2194.164	EVT	264.680	2.370	Jason is getting in position to grab HOB chain 33
2002/09/18	01:27:18	47.94789222	-129.09933734	2194.733	EVT	270.740	1.860	grabbing HOB chain 33
2002/09/18	01:28:18	47.94790391	-129.09933344	2193.927	EVT	247.290	2.630	pulled up a clump of tubeworms and limpets that grew onto the HOB chain
2002/09/18	01:28:31	47.94791536	-129.09933601	2194.123	EVT	216.400	2.260	also thick bacterial mats on the clump
2002/09/18	01:30:00	47.94791429	-129.09933668	2193.995	EVT	206.340	2.450	with MAV48 in right arm and HOB chain 33 in the left we are headed back to the elevator
2002/09/18	01:32:20	47.94791486	-129.09933797	2193.669	EVT	206.130	2.640	oops we dropped HOB chain 33
2002/09/18	01:34:05	47.94791679	-129.09933570	2195.059	EVT	206.520	1.530	there it is
2002/09/18	01:35:41	47.94792350	-129.09933415	2195.438	EVT	207.040	1.030	picking up HOB chain 33 again
2002/09/18	01:36:10	47.94792310	-129.09933497	2195.438	EVT	207.150	0.940	clump of limpets/tubeworms still attached
2002/09/18	01:37:51	47.94792621	-129.09933189	2192.687	EVT	33.360	3.430	we are now ready to head north (sulfides to the south of us) to the elevator
2002/09/18	01:38:28	47.94792709	-129.09933063	2192.470	EVT	18.240	4.000	the ship will be there before Jason even starts to move
2002/09/18	01:48:51	47.94826979	-129.09915038	2190.986	EVT	24.890	4.560	nav target 6=elevator
2002/09/18	01:54:34	47.94859874	-129.09893016	2192.111	EVT	13.220	3.600	elevator is in sight
2002/09/18	01:58:11	47.94870099	-129.09887813	2193.005	EVT	297.880	2.890	putting HOB chain 33 into the elevator
2002/09/18	01:59:10	47.94870325	-129.09888329	2193.981	EVT	297.810	1.780	trying to get HOB chain untangled from the claw
2002/09/18	01:59:46	47.94870269	-129.09888267	2193.934	EVT	297.940	1.950	looks less tangled now
2002/09/18	02:00:16	47.94870563	-129.09888458	2194.273	EVT	297.820	1.560	big crab on the elevator
2002/09/18	02:00:55	47.94870644	-129.09888724	2193.981	EVT	297.890	1.780	HOB chain 33 is in the elevator
2002/09/18	02:02:30	47.94870697	-129.09888650	2194.144	EVT	298.780	1.590	putting MAV48 into the elevator
2002/09/18	02:03:01	47.94870603	-129.09888732	2193.825	EVT	297.330	1.780	got it in without too much trouble
2002/09/18	02:05:24	47.94870658	-129.09888709	2194.062	EVT	297.760	1.580	getting ready to secure MAV48
2002/09/18	02:06:17	47.94870633	-129.09888724	2194.035	EVT	298.210	1.560	pulling the bungee cord up over the MAV48
2002/09/18	02:07:57	47.94869800	-129.09888975	2194.489	EVT	299.880	1.430	picking up HOB chain 33 again
2002/09/18	02:09:03	47.94869215	-129.09889484	2194.510	EVT	310.890	1.520	put HOB chain 33 down again
2002/09/18	02:10:52	47.94869376	-129.09889620	2194.564	EVT	311.050	1.530	also put HOB 35 (from Raven) onto the elevator
2002/09/18	02:14:08	47.94869534	-129.09893945	2194.577	EVT	27.830	2.270	rotating MAV
2002/09/18	02:14:47	47.94869778	-129.09894672	2194.395	EVT	28.010	2.300	that was MAV 58 that was rotated
2002/09/18	02:15:58	47.94870715	-129.09895554	2194.239	EVT	68.770	2.620	spider crab still on elevator--I hope he stays there for release
2002/09/18	02:17:09	47.94870713	-129.09895553	2194.442	EVT	69.160	2.600	going to take along a major with us now
2002/09/18	02:19:23	47.94869129	-129.09887956	2194.279	EVT	305.730	1.670	taking a major and a gas tight
2002/09/18	02:23:29	47.94868875	-129.09886285	2195.818	EVT	304.170	1.900	grabbing major

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18 02:24:33		47.94868651	-129.09886216	2195.750	EVT	304.150	1.560	trying to find space for major on Jason
2002/09/18 02:25:47		47.94868736	-129.09886914	2195.784	EVT	304.200	1.540	major placed in front basket
2002/09/18 02:28:34		47.94867769	-129.09885375	2195.811	EVT	304.230	1.750	taking gas tight off the elevator
2002/09/18 02:28:59		47.94867903	-129.09885334	2195.729	EVT	304.250	1.580	current sampling inventory on board Jason: 2 gas
		tight, 2 majors						
2002/09/18 02:29:31		47.94868005	-129.09885519	2195.811	EVT	304.280	30.000	dropping gas tight
2002/09/18 02:30:10		47.94868236	-129.09886043	2195.784	EVT	304.320	30.000	gas tight stowed on board
2002/09/18 02:31:46		47.94868199	-129.09885118	2192.768	EVT	305.140	3.240	heading to get the thermal blanket
2002/09/18 02:32:03		47.94867924	-129.09884458	2193.636	EVT	305.960	2.360	we're going to be cruising over S
2002/09/18 02:32:48		47.94867524	-129.09883703	2191.657	EVT	272.200	4.760	that should be "we're going to be cruising about S and
		M to get it"						
2002/09/18 02:34:07		47.94868867	-129.09882693	2180.265	EVT	180.960	15.620	in transit to thermal blanket land
2002/09/18 03:05:20		47.94627179	-129.09702970	2210.528	EVT	167.850	3.790	thermal blanket in sight
2002/09/18 03:07:13		47.94623110	-129.09703613	2213.083	EVT	185.900	1.340	We will redeploy thermal blanket at milliQ.
2002/09/18 03:07:40		47.94623096	-129.09703603	2213.090	EVT	186.070	1.370	blank-text
2002/09/18 03:07:46		47.94623119	-129.09703601	2213.002	EVT	186.020	1.560	blank-text
2002/09/18 03:08:59		47.94621927	-129.09703900	2213.849	EVT	190.420	1.100	thermal blanket in grasp
2002/09/18 03:11:03		47.94621951	-129.09703881	2213.950	EVT	190.160	1.030	blank-text
2002/09/18 03:13:45		47.94621957	-129.09703860	2213.740	EVT	190.610	1.180	nav target is listed as MQ
2002/09/18 03:14:20		47.94621962	-129.09703896	2213.835	EVT	190.410	1.210	blank-text
2002/09/18 03:14:52		47.94621956	-129.09703937	2213.889	EVT	190.470	1.250	hand off of thermal blanket between arms
2002/09/18 03:15:11		47.94621947	-129.09703916	2213.876	EVT	190.030	1.230	blank-text
2002/09/18 03:17:31		47.94622783	-129.09703823	2210.739	EVT	227.400	3.940	We are driving to the east side of MQ.
2002/09/18 03:17:33		47.94622806	-129.09703824	2211.050	EVT	239.250	3.710	blank-text
2002/09/18 03:18:09		47.94625331	-129.09707635	2211.342	EVT	316.330	3.600	heading 317
2002/09/18 03:28:53		47.94678414	-129.09787014	2208.774	EVT	284.530	1.990	starfish
2002/09/18 03:29:04		47.94678925	-129.09788990	2208.089	EVT	285.800	2.380	base of milli q
2002/09/18 03:33:48		47.94704629	-129.09823380	2199.517	EVT	323.510	5.800	blank-text
2002/09/18 03:33:58		47.94704272	-129.09823522	2198.474	EVT	323.860	6.430	extinct sulfide
2002/09/18 03:36:42		47.94731222	-129.09856571	2192.829	EVT	313.920	4.020	extinct sulfide
2002/09/18 03:36:58		47.94732803	-129.09858972	2192.043	EVT	313.240	4.760	blank-text
2002/09/18 03:41:51		47.94728500	-129.09869393	2191.094	EVT	181.220	2.050	fish swimming into view
2002/09/18 03:42:34		47.94727441	-129.09869437	2190.972	EVT	180.600	2.300	blank-text
2002/09/18 03:43:39		47.94715757	-129.09876869	2189.712	EVT	180.980	3.640	marker az
2002/09/18 03:44:49		47.94714149	-129.09877610	2189.251	EVT	207.350	3.870	side view of mq
2002/09/18 03:44:51		47.94714123	-129.09877637	2189.305	EVT	207.350	3.870	blank-text
2002/09/18 03:46:51		47.94714125	-129.09877640	2189.163	EVT	210.460	4.080	blank-text
2002/09/18 03:46:51		47.94714146	-129.09877664	2188.973	EVT	210.480	4.060	blank-text
2002/09/18 03:48:12		47.94714033	-129.09882551	2187.903	EVT	210.720	5.240	at summit
2002/09/18 03:49:47		47.94714056	-129.09882508	2187.584	EVT	210.160	5.460	summit of MQ
2002/09/18 03:52:15		47.94715112	-129.09885221	2187.537	EVT	210.390	5.960	NE MQ

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18 03:53:28		47.94715081	-129.09885206	2187.550	EVT	210.290	5.940	blank-text
2002/09/18 03:54:20		47.94714913	-129.09886337	2187.496	EVT	210.240	6.050	views of NE MQ in frame graps
2002/09/18 03:54:27		47.94714392	-129.09887434	2187.272	EVT	210.630	6.500	blank-text
2002/09/18 03:54:33		47.94713939	-129.09887865	2187.069	EVT	210.350	6.850	blank-text
2002/09/18 03:54:57		47.94713643	-129.09888121	2186.059	EVT	188.340	8.060	many tube worms on lower half
2002/09/18 03:55:11		47.94713585	-129.09888149	2186.663	EVT	188.650	7.470	blank-text
2002/09/18 03:55:14		47.94713582	-129.09888149	2186.507	EVT	188.510	7.660	blank-text
2002/09/18 03:55:25		47.94713056	-129.09888210	2185.829	EVT	187.970	8.270	blank-text
2002/09/18 03:56:16		47.94713077	-129.09888139	2184.589	EVT	188.450	9.540	branched tube worms alt. 9 meters, venting between spires
2002/09/18 03:57:13		47.94713095	-129.09888136	2184.602	EVT	188.500	9.510	foreground is MQ NE, background MQ SW
2002/09/18 03:57:53		47.94713076	-129.09888163	2184.562	EVT	188.400	9.580	blank-text
2002/09/18 03:58:47		47.94713114	-129.09888099	2184.616	EVT	165.620	9.210	blank-text
2002/09/18 04:03:50		47.94729434	-129.09858909	2193.507	EVT	236.580	2.440	extinct sulfides
2002/09/18 04:04:23		47.94729184	-129.09862376	2193.473	EVT	233.000	4.590	not much biology on these extinct sulfides
2002/09/18 04:07:45		47.94732788	-129.09857724	2195.289	EVT	182.720	5.330	small sulfide, anhydrite on top
2002/09/18 04:07:58		47.94732836	-129.09858621	2195.357	EVT	182.420	5.050	blank-text
2002/09/18 04:09:31		47.94720857	-129.09862713	2195.418	EVT	210.540	1.310	we are at the given navigation target to deploy the thermal blanket.
2002/09/18 04:12:13		47.94720519	-129.09862419	2195.533	EVT	209.850	1.270	deploying thermal blanket
2002/09/18 04:12:30		47.94720519	-129.09862372	2195.445	EVT	209.960	1.330	sediments here are iron rich
2002/09/18 04:13:45		47.94720887	-129.09862165	2195.601	EVT	209.110	1.400	25 m east of MQ no bacterial mat and FLAT
2002/09/18 04:14:42		47.94720794	-129.09861873	2195.587	EVT	209.090	1.410	thermal blanket sitting on old sulfide
2002/09/18 04:15:28		47.94720738	-129.09861538	2195.492	EVT	209.060	1.400	bringing thermal blanket towards Jason
2002/09/18 04:16:00		47.94720768	-129.09861693	2195.560	EVT	209.050	1.360	flatter area and on sediments
2002/09/18 04:16:40		47.94720867	-129.09862013	2195.655	EVT	209.140	1.320	thermal blanket deployed
2002/09/18 04:17:07		47.94720920	-129.09862010	2195.689	EVT	208.770	1.430	on lower flanks of extinct sulfide, partially sedimented
2002/09/18 04:17:28		47.94721035	-129.09862844	2195.594	EVT	208.920	1.450	blank-text
2002/09/18 04:17:47		47.94721011	-129.09862693	2195.682	EVT	209.190	1.300	thermal blanket now deployed
2002/09/18 04:19:14		47.94722130	-129.09861138	2194.239	EVT	209.410	3.130	thermal blanket was a little bit on the basket, nav target 8 for thermal blanked
2002/09/18 04:19:17		47.94722147	-129.09861137	2194.469	EVT	209.590	2.950	blank-text
2002/09/18 04:19:21		47.94722101	-129.09861141	2194.767	EVT	209.400	2.550	blank-text
2002/09/18 04:19:35		47.94722039	-129.09861201	2194.428	EVT	209.490	2.850	blank-text
2002/09/18 04:19:37		47.94722061	-129.09861188	2194.334	EVT	209.420	2.870	blank-text
2002/09/18 04:19:59		47.94722045	-129.09861163	2194.415	EVT	209.350	2.790	thermal blanket in position
2002/09/18 04:22:30		47.94722158	-129.09873602	2190.756	EVT	243.360	3.430	MQ is to the SW of where we are.
2002/09/18 04:23:23		47.94717337	-129.09883202	2188.574	EVT	206.940	5.120	base of MQ
2002/09/18 04:24:02		47.94715040	-129.09884684	2188.059	EVT	178.930	5.500	blank-text
2002/09/18 04:24:02		47.94715041	-129.09884714	2188.147	EVT	177.030	5.550	blank-text

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18 04:24:21		47.94715015	-129.09884865	2188.438	EVT	177.940	5.350	same approach as before
2002/09/18 04:24:50		47.94715019	-129.09884907	2187.333	EVT	177.950	6.540	same approach as before to MA
2002/09/18 04:25:14		47.94715014	-129.09885358	2187.178	EVT	177.930	6.610	correction: MQ
2002/09/18 04:25:45		47.94713987	-129.09887301	2186.879	EVT	177.710	7.520	blank-text
2002/09/18 04:25:48		47.94713883	-129.09887827	2186.744	EVT	178.380	7.740	blank-text
2002/09/18 04:25:50		47.94713690	-129.09888092	2186.663	EVT	178.340	7.510	blank-text
2002/09/18 04:25:56		47.94713188	-129.09888442	2186.480	EVT	178.300	7.530	blank-text
2002/09/18 04:26:51		47.94713322	-129.09888267	2185.666	EVT	178.070	8.450	milli-q
2002/09/18 04:27:27		47.94713320	-129.09888228	2185.646	EVT	178.020	8.510	looking for place to water sample Jason guys figuring
								out best approach, etc
2002/09/18 04:28:32		47.94713293	-129.09888278	2185.775	EVT	178.030	8.250	looking up and out
2002/09/18 04:29:02		47.94712784	-129.09887862	2183.864	EVT	177.860	10.350	note altitude at top
2002/09/18 04:29:51		47.94712740	-129.09888131	2185.300	EVT	177.740	8.840	descending
2002/09/18 04:30:59		47.94712118	-129.09894060	2185.063	EVT	142.810	8.130	black smoke on side
2002/09/18 04:32:02		47.94709688	-129.09893439	2184.704	EVT	114.710	10.420	vehicle to be set down pointing east - note heading
2002/09/18 04:33:54		47.94709765	-129.09892041	2186.141	EVT	72.530	8.020	worms with smoke
2002/09/18 04:34:26		47.94709816	-129.09892071	2186.290	EVT	72.250	7.450	more worms and smoke
2002/09/18 04:35:58		47.94709822	-129.09892080	2186.229	EVT	72.020	7.770	opening orifice
2002/09/18 04:36:41		47.94709810	-129.09892061	2186.330	EVT	71.910	7.700	acquiring IcL
2002/09/18 04:39:00		47.94709843	-129.09892097	2186.344	EVT	72.070	7.700	IcL looking a bit worse for the wear
2002/09/18 04:40:38		47.94709855	-129.09892126	2186.324	EVT	72.110	7.780	IcL wire a bit frayed too
2002/09/18 04:41:30		47.94709871	-129.09892132	2186.188	EVT	72.140	7.720	cool impage
2002/09/18 04:41:58		47.94709871	-129.09892139	2186.263	EVT	72.030	7.750	pilot asks what if we don't get a temp here?
2002/09/18 04:42:21		47.94709879	-129.09892143	2186.256	EVT	72.120	7.810	if no temp, take major anyway,
2002/09/18 04:45:19		47.94709887	-129.09892187	2186.398	EVT	71.740	7.610	IcL not linking, apparently
2002/09/18 04:46:39		47.94709883	-129.09892228	2186.344	EVT	71.930	7.570	major eleven selected
2002/09/18 04:48:16		47.94709880	-129.09892278	2186.297	EVT	72.050	7.780	major sampling at mq
2002/09/18 04:48:34		47.94709882	-129.09892286	2186.297	EVT	72.020	7.740	blank-text
2002/09/18 04:49:15		47.94709885	-129.09892294	2186.344	EVT	72.030	7.580	major triggered
2002/09/18 04:49:48		47.94709886	-129.09892305	2186.358	EVT	71.990	7.750	fired major 11 at 4:49:10 at mq, high temp but no icl
2002/09/18 04:51:33		47.94709864	-129.09892364	2186.344	EVT	72.000	7.760	finished major #11 at 4:51
2002/09/18 04:53:00		47.94709871	-129.09892380	2186.493	EVT	72.010	7.540	firing up the butterfield sampler
2002/09/18 04:55:53		47.94709877	-129.09892416	2186.412	EVT	72.100	7.740	sticking butterfield input into black smoker on side of
								m
2002/09/18 04:56:24		47.94709878	-129.09892424	2186.473	EVT	72.050	7.730	we are doing this to get a temperature. he is not going
								to pump, just hold intake in hot fluid.\
2002/09/18 04:56:42		47.94709857	-129.09892439	2186.378	EVT	72.050	7.730	is slowly going up.
2002/09/18 04:58:18		47.94709855	-129.09892551	2186.276	EVT	72.000	7.810	temp at 180; readjusting input
2002/09/18 05:02:34		47.94709839	-129.09892612	2186.391	EVT	71.830	7.870	highest temp (with pump off) = 270.9 at MQ
2002/09/18 05:06:24		47.94709863	-129.09892667	2186.351	EVT	71.900	7.660	274 is highest temp at mq
2002/09/18 05:08:26		47.94709868	-129.09892681	2186.358	EVT	71.850	7.690	Taking gas tight sample organge;at mq still

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18	05:11:11	47.94709855	-129.09892698	2186.310	EVT	71.810	7.820	ended orange gas tight sample
2002/09/18	05:12:00	47.94709855	-129.09892716	2186.398	EVT	72.090	7.600	we are going to look around now for diffuse flow
2002/09/18	05:13:39	47.94709833	-129.09892738	2186.425	EVT	72.090	7.620	heading is 72 degrees, depth 2186.4; we are sampling
off the western face of mq. there are other venting orifices as well. altitue 7.7. not at the top of the structure.								
2002/09/18	05:14:42	47.94709811	-129.09892681	2186.419	EVT	71.650	7.700	picking up some sulfide from immeidiatly around the
orifice.								
2002/09/18	05:16:03	47.94709803	-129.09892704	2186.378	EVT	71.870	7.770	blank-text
2002/09/18	05:16:17	47.94709798	-129.09892707	2186.541	EVT	71.850	7.770	dropping sufied off on manifold sampler so we can
open the bio box								
2002/09/18	05:18:33	47.94709776	-129.09892704	2186.452	EVT	71.980	7.830	picking up more rocks (others lost)
2002/09/18	05:18:39	47.94709776	-129.09892711	2186.263	EVT	71.990	7.850	blank-text
2002/09/18	05:19:01	47.94709781	-129.09892712	2186.500	EVT	71.940	7.830	blank-text
2002/09/18	05:22:32	47.94709781	-129.09893477	2185.931	EVT	83.660	9.320	giving up on getting sulfide rocks here in the hopes
of getting some somewhere else								
2002/09/18	05:22:57	47.94709889	-129.09893561	2185.599	EVT	83.210	9.510	blank-text
2002/09/18	05:27:58	47.94703614	-129.09891077	2185.524	EVT	50.840	8.870	blank-text
2002/09/18	05:27:58	47.94703474	-129.09891042	2185.477	EVT	50.850	8.870	blank-text
2002/09/18	05:28:41	47.94701097	-129.09891311	2186.818	EVT	38.470	7.080	going away from mq
2002/09/18	05:30:02	47.94703783	-129.09887215	2186.683	EVT	359.120	6.380	blank-text
2002/09/18	05:30:04	47.94703811	-129.09886808	2186.683	EVT	359.480	6.580	blank-text
2002/09/18	05:30:09	47.94704068	-129.09884951	2185.985	EVT	353.150	7.010	blank-text
2002/09/18	05:30:12	47.94704178	-129.09883924	2185.158	EVT	334.790	8.860	blank-text
2002/09/18	05:30:15	47.94704432	-129.09882777	2184.718	EVT	320.860	9.550	blank-text
2002/09/18	05:30:19	47.94705768	-129.09881866	2184.209	EVT	309.450	10.780	blank-text
2002/09/18	05:30:24	47.94706989	-129.09881671	2183.871	EVT	298.730	3.830	blank-text
2002/09/18	05:30:33	47.94709800	-129.09880783	2183.593	EVT	267.700	8.350	blank-text
2002/09/18	05:30:40	47.94711622	-129.09880624	2183.152	EVT	251.550	10.070	blank-text
2002/09/18	05:36:54	47.94717386	-129.09882952	2189.834	EVT	209.950	3.700	kheadiung 210 looking at mq
2002/09/18	05:37:09	47.94717284	-129.09883070	2191.284	EVT	210.040	2.230	blank-text
2002/09/18	05:37:43	47.94717341	-129.09882992	2190.586	EVT	210.000	2.730	looking at marker AZ, heading 210, at base of
chimney								
2002/09/18	05:38:12	47.94717328	-129.09882953	2190.850	EVT	209.940	2.610	also see marker MF
2002/09/18	05:38:22	47.94717337	-129.09882941	2191.006	EVT	210.000	2.530	blank-text
2002/09/18	05:39:01	47.94716594	-129.09887424	2188.357	EVT	192.730	5.910	blank-text
2002/09/18	05:39:24	47.94714843	-129.09890913	2190.424	EVT	181.960	3.810	blank-text
2002/09/18	05:39:25	47.94714567	-129.09891027	2190.613	EVT	179.090	3.330	blank-text
2002/09/18	05:40:39	47.94712741	-129.09898032	2189.875	EVT	113.250	5.010	blank-text
2002/09/18	05:40:40	47.94712711	-129.09898086	2189.875	EVT	113.630	5.010	blank-text
2002/09/18	05:43:05	47.94711274	-129.09896799	2191.454	EVT	125.620	3.700	blank-text
2002/09/18	05:43:32	47.94711269	-129.09896793	2191.460	EVT	126.430	3.750	blank-text
2002/09/18	05:44:36	47.94713063	-129.09895046	2191.054	EVT	178.620	2.410	blank-text

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18 05:46:06		47.94713104	-129.09897356	2191.555	EVT	178.640	2.140	coming around to look at the worms that we saw around the corner
2002/09/18 05:48:12		47.94709851	-129.09900433	2191.711	EVT	101.740	3.720	lots of tube worms at base
2002/09/18 05:53:21		47.94711469	-129.09901466	2191.528	EVT	63.610	3.950	looking for diffuse flow along base, not much luck
2002/09/18 05:55:51		47.94716028	-129.09879852	2188.926	EVT	219.740	4.600	going up
2002/09/18 05:57:11		47.94715244	-129.09877801	2189.373	EVT	155.220	4.280	blank-text
2002/09/18 05:58:29		47.94714611	-129.09870584	2192.158	EVT	162.230	2.120	marker dk 1
2002/09/18 05:58:52		47.94714354	-129.09870584	2192.124	EVT	161.840	2.230	this only has 9-11 degree flow
2002/09/18 05:59:05		47.94714337	-129.09870597	2192.185	EVT	161.970	2.120	scrawny tube worms says janet
2002/09/18 06:00:13		47.94714239	-129.09870984	2191.521	EVT	154.460	2.890	9-11 degrees was looked up, not measured
2002/09/18 06:01:08		47.94716430	-129.09869072	2191.779	EVT	39.040	2.200	thermal blanket
2002/09/18 06:01:25		47.94717052	-129.09869015	2191.210	EVT	42.010	2.870	moving away from MQ toward S
2002/09/18 06:05:48		47.94727035	-129.09865682	2191.426	EVT	270.780	6.170	toward S
2002/09/18 06:06:11		47.94728395	-129.09878918	2190.783	EVT	269.280	3.960	toward S+M
2002/09/18 06:06:27		47.94729545	-129.09891004	2191.752	EVT	268.970	3.320	S
2002/09/18 06:06:57		47.94730294	-129.09893819	2191.582	EVT	269.120	3.270	(apparently ampersands don't show up)
2002/09/18 06:14:51		47.94771858	-129.09867308	2191.176	EVT	51.360	4.260	we found S+M
2002/09/18 06:15:19		47.94771774	-129.09867420	2188.865	EVT	51.760	6.370	frame grabs of S+M
2002/09/18 06:15:39		47.94771832	-129.09867361	2188.533	EVT	51.570	6.860	blank-text
2002/09/18 06:15:45		47.94771874	-129.09867440	2187.144	EVT	51.250	8.090	blank-text
2002/09/18 06:15:59		47.94771837	-129.09867385	2185.863	EVT	51.570	9.360	blank-text
2002/09/18 06:16:07		47.94771820	-129.09867347	2184.752	EVT	51.450	10.340	blank-text
2002/09/18 06:16:11		47.94771823	-129.09867416	2184.318	EVT	51.470	10.890	blank-text
2002/09/18 06:16:20		47.94771813	-129.09867424	2183.539	EVT	51.670	11.490	blank-text
2002/09/18 06:16:29		47.94771807	-129.09867364	2182.590	EVT	51.640	12.300	blank-text
2002/09/18 06:16:34		47.94771801	-129.09867402	2182.027	EVT	51.600	13.200	blank-text
2002/09/18 06:16:48		47.94771890	-129.09867611	2182.691	EVT	51.470	12.190	blank-text
2002/09/18 06:16:58		47.94772005	-129.09867694	2182.380	EVT	51.340	12.590	blank-text
2002/09/18 06:17:29		47.94771970	-129.09867732	2182.488	EVT	51.510	12.480	blank-text
2002/09/18 06:18:11		47.94771174	-129.09866439	2180.536	EVT	60.140	14.490	blank-text
2002/09/18 06:18:38		47.94770860	-129.09864213	2180.509	EVT	57.160	14.820	blank-text
2002/09/18 06:18:52		47.94770887	-129.09864210	2180.387	EVT	57.240	14.900	blank-text
2002/09/18 06:19:57		47.94770828	-129.09864163	2180.265	EVT	54.190	15.010	lots of flow from this vent
2002/09/18 06:22:07		47.94770840	-129.09864214	2180.204	EVT	55.360	15.060	blank-text
2002/09/18 06:22:23		47.94770838	-129.09864211	2180.198	EVT	55.390	15.050	grasping chimney
2002/09/18 06:22:33		47.94770838	-129.09864217	2180.137	EVT	55.530	15.040	blank-text
2002/09/18 06:22:46		47.94770837	-129.09864229	2180.252	EVT	55.530	15.030	knocked chimney down
2002/09/18 06:23:42		47.94770849	-129.09864261	2180.299	EVT	55.790	14.950	bigger vent now
2002/09/18 06:23:52		47.94770844	-129.09864257	2180.265	EVT	55.800	15.020	blank-text
2002/09/18 06:25:27		47.94769557	-129.09860186	2179.527	EVT	2.720	25.750	blank-text
2002/09/18 06:25:41		47.94770758	-129.09856593	2179.500	EVT	313.610	25.530	looking for better vent

Event log: LEXEN 2002**Dive J2-010**

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18 06:25:54		47.94772588	-129.09855226	2179.269	EVT	293.790	26.310	this one's pretty big
2002/09/18 06:26:15		47.94771937	-129.09855665	2179.391	EVT	294.260	26.350	oops, this one
2002/09/18 06:27:23		47.94775079	-129.09858129	2180.374	EVT	253.450	28.380	blank-text
2002/09/18 06:28:01		47.94775130	-129.09858148	2180.835	EVT	244.980	28.270	blank-text
2002/09/18 06:28:22		47.94775138	-129.09858154	2180.868	EVT	244.890	28.370	blank-text
2002/09/18 06:28:50		47.94775149	-129.09858162	2180.699	EVT	244.810	29.230	blank-text
2002/09/18 06:28:58		47.94775147	-129.09858168	2180.624	EVT	244.910	28.630	knocked chimney down
2002/09/18 06:29:17		47.94775144	-129.09858158	2180.658	EVT	244.980	29.210	closeup
2002/09/18 06:29:26		47.94775163	-129.09858207	2180.543	EVT	244.490	28.890	blank-text
2002/09/18 06:29:33		47.94775169	-129.09858205	2180.591	EVT	245.000	29.360	blank-text
2002/09/18 06:30:05		47.94775183	-129.09858196	2180.611	EVT	245.010	28.720	blank-text
2002/09/18 06:30:49		47.94775659	-129.09859073	2180.814	EVT	207.880	13.700	fluid coming from base now
2002/09/18 06:31:29		47.94775642	-129.09859099	2180.604	EVT	208.560	13.910	blank-text
2002/09/18 06:31:42		47.94775650	-129.09859094	2180.685	EVT	208.540	13.770	not base, but lower down anyway
2002/09/18 06:32:42		47.94775679	-129.09859060	2180.665	EVT	208.730	13.800	using major sampler
2002/09/18 06:36:53		47.94775716	-129.09859051	2180.489	EVT	209.250	14.200	blank-text
2002/09/18 06:37:21		47.94775718	-129.09859081	2180.462	EVT	209.280	13.960	sampling done
2002/09/18 06:37:44		47.94775725	-129.09859098	2180.482	EVT	209.510	13.930	it is major sampler 16
2002/09/18 06:38:06		47.94775707	-129.09859109	2180.591	EVT	209.320	14.210	stowing sampler
2002/09/18 06:41:11		47.94775731	-129.09859211	2180.523	EVT	206.200	14.010	we've had our fill of S+M
2002/09/18 06:41:36		47.94775724	-129.09859216	2180.475	EVT	206.220	13.990	going to get MAVs 15m north
2002/09/18 07:11:57		47.94796066	-129.09863854	2193.805	EVT	171.470	1.840	MAVS and HOBO strings in view
2002/09/18 07:12:39		47.94795396	-129.09863585	2193.222	EVT	171.130	2.540	visual marker number 34
2002/09/18 07:15:55		47.94812292	-129.09860230	2195.513	EVT	181.410	0.900	this is nav target 10
2002/09/18 07:20:07		47.94812140	-129.09860107	2194.693	EVT	180.500	1.610	picked up HOBO 34
2002/09/18 07:20:33		47.94811310	-129.09860021	2195.167	EVT	179.790	0.830	picking up MAVS number 61
2002/09/18 07:21:45		47.94811458	-129.09859986	2195.045	EVT	179.510	0.970	blank-text
2002/09/18 07:21:47		47.94811465	-129.09859993	2195.079	EVT	179.200	1.000	blank-text
2002/09/18 07:21:49		47.94811469	-129.09859984	2195.004	EVT	179.320	0.990	blank-text
2002/09/18 07:21:51		47.94811458	-129.09859962	2195.093	EVT	179.840	0.970	blank-text
2002/09/18 07:22:02		47.94811481	-129.09859979	2195.052	EVT	179.380	0.950	recovered
2002/09/18 07:24:41		47.94818612	-129.09860681	2192.179	EVT	14.590	3.950	we are now going back to the elevator to drop off the
MAV and HOBO								
2002/09/18 07:39:50		47.94875033	-129.09904486	2192.287	EVT	17.550	4.610	elevator in view
2002/09/18 07:42:56		47.94876616	-129.09892552	2194.550	EVT	18.030	1.840	putting down MAV to free up arm
2002/09/18 07:43:19		47.94876487	-129.09897333	2192.802	EVT	347.630	3.260	we will now remove new MAV from the elevator
2002/09/18 07:44:18		47.94879779	-129.09899797	2196.034	EVT	346.800	0.720	placing HOBO on the elevator
2002/09/18 07:50:29		47.94877864	-129.09903586	2194.740	EVT	26.370	2.490	picking up MAV from elevayot
2002/09/18 07:50:46		47.94877326	-129.09901421	2195.743	EVT	20.050	1.500	MAV number 51
2002/09/18 07:51:13		47.94876055	-129.09892191	2193.724	EVT	20.650	2.780	blank-text
2002/09/18 07:52:26		47.89392185	-129.16448670	2195.323	EVT	21.070	0.750	temporarily setting down new MAV

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18 07:54:13		47.94871662	-129.09906439	2195.364	EVT	18.130	0.840	picking up old MAV again to put it in the elevator where the new one used to be
2002/09/18 07:58:55		47.94874248	-129.09899507	2196.224	EVT	21.410	0.870	placing old MAV on elevator
2002/09/18 08:00:05		47.94874334	-129.09899688	2196.258	EVT	22.430	0.950	using both of Jason's arms to get the MAV into it's holding tube
2002/09/18 08:04:01		47.94874133	-129.09899915	2196.102	EVT	20.590	0.900	success! MAV is now secure in the elevator
2002/09/18 08:12:54		47.94874251	-129.09895576	2195.967	EVT	304.600	1.740	we have placed used majors and gastights on the elevator
2002/09/18 08:13:17		47.94874161	-129.09890846	2195.845	EVT	304.650	1.750	took 1 new major sampler off the elevator
2002/09/18 08:17:08		47.94876012	-129.09896953	2195.587	EVT	304.490	0.940	test
2002/09/18 08:19:27		47.94876384	-129.09898130	2196.021	EVT	305.050	30.000	we have taken 1 new gastight off the elevator
2002/09/18 08:19:51		47.94877269	-129.09898128	2195.899	EVT	305.050	30.000	placing HOBOS in basket on the elevator
2002/09/18 08:20:51		47.94877349	-129.09897348	2196.014	EVT	304.980	30.000	HOBOS secured
2002/09/18 08:22:45		47.94873910	-129.09902913	2195.865	EVT	304.910	1.710	grabbing the ICL
2002/09/18 08:22:55		47.94873288	-129.09903427	2195.906	EVT	304.910	1.670	we are going to test it
2002/09/18 08:23:12		47.94872109	-129.09904633	2195.872	EVT	304.950	1.750	inspecting the ICL wire
2002/09/18 08:24:53		47.94868635	-129.09909367	2195.994	EVT	304.970	1.760	appears melted
2002/09/18 08:25:01		47.94868704	-129.09909532	2195.973	EVT	304.970	30.000	melted
2002/09/18 08:26:42		47.94866883	-129.09912381	2195.973	EVT	305.010	1.730	zoomed view
2002/09/18 08:31:23		47.94865922	-129.09916325	2195.831	EVT	129.700	0.770	removing weights from elevator
2002/09/18 08:32:12		47.94865908	-129.09916453	2195.628	EVT	130.370	0.820	good thing that weight was rubber banded in, it may have floated away
2002/09/18 08:36:41		47.94866952	-129.09913901	2193.751	EVT	190.540	1.930	elevator is ready to go if we decide to release it
2002/09/18 08:38:35		47.94866010	-129.09914835	2194.733	EVT	187.400	1.450	removed MAV number 65
2002/09/18 08:38:54		47.94867077	-129.09920968	2193.852	EVT	131.510	2.390	apparently the elevator wasn't ready to go
2002/09/18 08:40:49		47.94870921	-129.09876861	2193.825	EVT	21.050	1.640	crab
2002/09/18 08:42:09		47.94871842	-129.09876381	2194.686	EVT	21.230	0.700	Jason is now carrying a MAV in each arm
2002/09/18 08:44:18		47.94871615	-129.09876711	2193.825	EVT	22.880	1.500	Jason holding 2 MAVS as we begin transit
2002/09/18 08:46:58		47.94866098	-129.09894632	2190.891	EVT	216.620	5.070	these 2 MAVS are both going to Easter Island
2002/09/18 09:04:04		47.94797028	-129.09918647	2191.013	EVT	219.330	5.150	There is a MAV in medea's view
2002/09/18 09:05:18		47.94794992	-129.09924418	2192.063	EVT	246.990	4.780	We are at Easter island
2002/09/18 09:09:01		47.94798522	-129.09928723	2193.073	EVT	246.360	3.390	Deciding where to deploy the MAVs at Easter Island
2002/09/18 09:12:55		47.94790976	-129.09940165	2195.269	EVT	53.410	30.000	Deploying port arm MAV at Easter Island in white spot admist tube worms
2002/09/18 09:14:39		47.94793300	-129.09943372	2195.404	EVT	56.280	1.530	The Pipe MAV is at a 30 degree angle or so
2002/09/18 09:15:11		47.94793323	-129.09945988	2193.568	EVT	44.040	2.770	Finding another spot for the other pipe MAV
2002/09/18 09:18:08		47.94800370	-129.09933940	2193.622	EVT	254.800	2.690	The d PIPE MAV we deployed first fell over
2002/09/18 09:20:24		47.94797645	-129.09938248	2195.486	EVT	224.040	1.150	Deploying starboard MAV at Easter Island
2002/09/18 09:20:32		47.94797644	-129.09938240	2195.587	EVT	224.080	1.130	Appears to be standing up straight
2002/09/18 09:23:10		47.94796062	-129.09937509	2195.912	EVT	244.240	0.910	We are adjusting the thermistors on the MAV we just deployed

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18	09:25:11	47.94795965	-129.09937594	2195.431	EVT	244.250	1.240	blank-text
2002/09/18	09:25:12	47.94795965	-129.09937592	2195.526	EVT	244.090	1.220	blank-text
2002/09/18	09:25:19	47.94795969	-129.09937557	2195.533	EVT	244.320	1.260	Those were frame grabs of the MAV
2002/09/18	09:25:46	47.94792695	-129.09937107	2193.886	EVT	331.000	3.210	That MAV is successfully deployed
2002/09/18	09:25:53	47.94791850	-129.09938066	2194.110	EVT	343.030	2.620	Going back to stand up the one that fell over
2002/09/18	09:26:59	47.94792252	-129.09941015	2195.892	EVT	350.860	1.450	Standing up the MAV
2002/09/18	09:27:58	47.94791755	-129.09941141	2195.879	EVT	350.940	1.480	MAV 51 is now standing up straight
2002/09/18	09:28:03	47.94791692	-129.09941228	2195.845	EVT	350.940	1.470	Checking the thermistors
2002/09/18	09:28:23	47.94791368	-129.09941028	2195.750	EVT	351.010	1.480	The other MAV we just deployed is number 65
2002/09/18	09:29:50	47.94790289	-129.09941983	2195.838	EVT	350.160	1.490	Fiddling with 51's thermistors
2002/09/18	09:30:40	47.94790160	-129.09942348	2195.851	EVT	350.330	1.450	Frame grabs of #51 and stuff growing on it
2002/09/18	09:30:53	47.94790072	-129.09942377	2195.824	EVT	350.330	1.450	MAV #51
2002/09/18	09:30:58	47.94790048	-129.09942367	2195.967	EVT	350.330	1.450	MAV #51
2002/09/18	09:31:29	47.94789753	-129.09942200	2194.137	EVT	350.350	3.340	MAVs at Easter Island
2002/09/18	09:31:33	47.94789750	-129.09942187	2193.927	EVT	349.980	3.360	MAVs
2002/09/18	09:31:49	47.94789573	-129.09941937	2194.212	EVT	350.440	3.170	Our MAVs
2002/09/18	09:35:03	47.94789366	-129.09939043	2196.265	EVT	349.740	0.770	trying to cycle the power to the butterfield sampler
2002/09/18	09:36:13	47.94788811	-129.09939908	2196.244	EVT	349.660	0.770	BUTterfield sampler has power now
2002/09/18	09:37:35	47.94791376	-129.09939248	2195.838	EVT	302.270	1.110	going to take some temperature measurements for
Susan								
2002/09/18	09:41:08	47.94791151	-129.09938923	2195.621	EVT	303.010	1.090	taking temp measurement with Butterfield sampler
2002/09/18	09:45:05	47.94791023	-129.09938714	2195.689	EVT	302.460	1.110	can't get the Butterfield sampler to work
2002/09/18	09:46:26	47.94790944	-129.09938682	2195.662	EVT	302.810	1.110	going to get Dave to help with the sampler
2002/09/18	09:49:07	47.94788241	-129.09944623	2194.760	EVT	16.050	0.760	moving to another spot here at Easter Island
2002/09/18	09:53:12	47.94788318	-129.09938083	2195.113	EVT	16.900	30.000	trying to take a temperature measurement again with
the Butterfield probe								
2002/09/18	09:55:26	47.94779952	-129.09917880	2194.638	EVT	6.950	30.000	trying to pos
2002/09/18	09:55:48	47.94779940	-129.09917804	2194.876	EVT	7.300	0.730	trying to position Jason
2002/09/18	09:58:05	47.94781829	-129.09920584	2194.937	EVT	359.030	1.540	there are no pumps on t
2002/09/18	09:58:27	47.94781614	-129.09920746	2195.113	EVT	2.080	1.380	There are no pumps on the Butterfield sampler
2002/09/18	09:58:49	47.94781887	-129.09920807	2195.431	EVT	4.800	1.040	Dave is trying to fix it
2002/09/18	10:02:16	47.94779689	-129.09918734	2195.397	EVT	4.760	1.120	BUTterfield sampler is working now
2002/09/18	10:02:46	47.94779444	-129.09918524	2195.418	EVT	4.490	1.110	taking a temperature measurement
2002/09/18	10:02:53	47.94779370	-129.09918448	2195.350	EVT	4.570	1.120	temp is 15.5 deg
2002/09/18	10:05:09	47.94778577	-129.09917766	2195.384	EVT	4.670	1.130	temp is 22 degrees now
2002/09/18	10:07:09	47.94778298	-129.09917424	2195.323	EVT	4.950	1.140	Going to take a water sample while we're here
2002/09/18	10:08:13	47.94777784	-129.09916979	2195.282	EVT	4.940	1.120	Trying to pH sensors
2002/09/18	10:08:30	47.94777822	-129.09917066	2195.330	EVT	5.080	1.140	pH is dropping from 8.0
2002/09/18	10:09:24	47.94779552	-129.09917201	2195.303	EVT	4.930	1.130	pH i.68s 7
2002/09/18	10:09:40	47.94779609	-129.09917205	2195.248	EVT	4.910	1.120	pH 7.68
2002/09/18	10:10:32	47.94781017	-129.09916997	2195.411	EVT	5.000	1.120	Starting Piston #5

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18	10:17:38	47.94791161	-129.09917334	2195.248	EVT	4.770	1.120	Stopping Unfiltered Piston #5
2002/09/18	10:18:23	47.94790936	-129.09917044	2195.099	EVT	4.770	1.140	Piston #5; Tmax=25.3, Tave=23.3, SD=0.15, Vol=701
2002/09/18	10:19:41	47.94790829	-129.09916997	2195.181	EVT	4.960	1.140	Starting Sterivex DNA Filter #3
2002/09/18	10:22:22	47.94790693	-129.09917023	2195.201	EVT	4.770	1.130	For Piston #5, T2=13 and SD=0.5
2002/09/18	10:31:21	47.94790379	-129.09917199	2195.018	EVT	4.630	1.160	Stopping Sterivex Filter #3
2002/09/18	10:31:58	47.94790584	-129.09917639	2195.201	EVT	4.820	1.130	Max temp 24.4, Tave 23.5, volume 1 litre
2002/09/18	10:32:58	47.94790793	-129.09917918	2194.991	EVT	4.680	1.160	starting filter bag #11
2002/09/18	10:39:00	47.94793704	-129.09921746	2195.072	EVT	4.520	1.130	stopping filter bag #11
2002/09/18	10:39:38	47.94794529	-129.09922835	2195.120	EVT	4.730	1.150	Tmax: 25.9, Tave: 23.9, Volume: 616 ml
2002/09/18	10:40:04	47.94795098	-129.09923549	2195.086	EVT	4.580	1.130	going to probe around and take temperature measurements for Susan
2002/09/18	10:41:43	47.94795093	-129.09916974	2194.137	EVT	340.600	2.120	Setting back down at Easter Island to probe for temperature
2002/09/18	10:43:01	47.94795658	-129.09915823	2195.181	EVT	342.470	1.350	Taking temperature
2002/09/18	10:50:01	47.94795733	-129.09915530	2195.059	EVT	342.630	1.320	TEMP max at 11
2002/09/18	10:51:47	47.94796502	-129.09914700	2195.214	EVT	342.790	1.290	temp going up again
2002/09/18	10:54:21	47.94796676	-129.09915049	2195.248	EVT	342.250	1.230	done at Easter Island - heading to North S
2002/09/18	10:56:14	47.94796432	-129.09915446	2195.214	EVT	342.360	1.350	going to break off a piece of this strange formation
2002/09/18	10:56:22	47.94796449	-129.09915414	2195.086	EVT	342.440	1.340	not sure if it is lava or what
2002/09/18	10:57:14	47.94796402	-129.09915384	2194.971	EVT	342.070	1.340	blank-text
2002/09/18	10:57:21	47.94796393	-129.09915430	2195.038	EVT	342.360	1.210	pretty friable whatever it is
2002/09/18	10:57:39	47.94796411	-129.09915438	2195.113	EVT	342.360	1.200	Moore asks if it might be anhydrite
2002/09/18	10:57:50	47.94796363	-129.09915506	2195.113	EVT	342.290	1.230	seems to cold says Dave
2002/09/18	10:58:15	47.94796397	-129.09915425	2194.950	EVT	342.450	1.310	blank-text
2002/09/18	10:58:16	47.94796396	-129.09915425	2194.991	EVT	342.510	1.310	blank-text
2002/09/18	10:58:17	47.94796396	-129.09915416	2195.038	EVT	342.220	1.310	blank-text
2002/09/18	10:58:17	47.94796395	-129.09915415	2195.133	EVT	342.170	1.310	blank-text
2002/09/18	10:58:27	47.94796367	-129.09915355	2195.093	EVT	342.170	1.320	Trying wacking it with the closed claw
2002/09/18	10:58:44	47.94796356	-129.09915268	2195.004	EVT	343.010	1.320	well, whacking it didn't do much
2002/09/18	10:58:53	47.94796371	-129.09915285	2194.882	EVT	342.170	1.330	Tried to grab a piece but it just crumbles
2002/09/18	10:59:34	47.94796391	-129.09915207	2194.930	EVT	342.400	1.310	got a small piece
2002/09/18	10:59:49	47.94796384	-129.09915239	2195.133	EVT	342.370	1.280	will try to drop it into
2002/09/18	11:00:00	47.94796388	-129.09915279	2195.038	EVT	342.200	1.280	trying to get it into a milk crate
2002/09/18	11:01:22	47.94796330	-129.09915336	2195.093	EVT	342.360	1.280	talking about possibly putting a piece of this stuff into the biobox
2002/09/18	11:03:33	47.94796257	-129.09915124	2195.059	EVT	342.230	1.260	decided to not try for a biobox - going to probe for temp once more
2002/09/18	11:04:24	47.94796244	-129.09915043	2195.025	EVT	342.120	1.300	taking out Butterfield probe nozzle
2002/09/18	11:04:46	47.94796246	-129.09915062	2194.984	EVT	342.490	1.300	sticking it in a crack
2002/09/18	11:05:39	47.94796298	-129.09914954	2194.943	EVT	342.330	1.310	not very warm says Dave

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18	11:05:59	47.94796287	-129.09914946	2194.991	EVT	342.450	1.300	Dave is surprised the temp is only around 11 with the worms here
2002/09/18	11:06:06	47.94796280	-129.09914932	2195.004	EVT	342.420	1.290	so we are looking around a bit more
2002/09/18	11:06:20	47.94796266	-129.09914935	2194.964	EVT	342.420	1.290	TEMP up to 9.3
2002/09/18	11:06:37	47.94796263	-129.09914935	2195.025	EVT	342.430	1.290	the flow may have increased near where we were chipping away at the substrate here
2002/09/18	11:06:52	47.94796224	-129.09914938	2195.011	EVT	342.500	1.310	Dave believes it is not very warm here now
2002/09/18	11:07:19	47.94796216	-129.09914917	2194.896	EVT	342.300	1.300	TEMP a little higher where the pieces were broken off
2002/09/18	11:07:28	47.94796220	-129.09914893	2194.984	EVT	342.220	1.310	the scar is where JASON was digging around
2002/09/18	11:07:38	47.94796210	-129.09914901	2194.903	EVT	342.270	1.300	TEMP up to 12.5
2002/09/18	11:08:14	47.94796230	-129.09914841	2195.113	EVT	342.360	1.290	fair amount of shimmery flow but not very hot here says Dave
2002/09/18	11:08:32	47.94796231	-129.09914824	2194.977	EVT	342.400	1.270	putting the nozzle away
2002/09/18	11:10:45	47.94796252	-129.09914241	2195.018	EVT	342.280	1.250	figuring out the best way to get to North S
2002/09/18	11:11:07	47.94796175	-129.09914002	2194.008	EVT	341.750	2.000	S
2002/09/18	11:11:28	47.94795601	-129.09914013	2192.294	EVT	11.080	3.710	apparently the ampersand dont work so well
2002/09/18	11:11:49	47.94795888	-129.09914229	2192.097	EVT	99.280	3.180	S+M is where we will be going
2002/09/18	11:16:43	47.94798353	-129.09892211	2190.573	EVT	72.940	4.690	one of the video monitors has given out - deck 1 working - but Andy says its just the monitor and to not worry about it
2002/09/18	11:23:34	47.94804345	-129.09849719	2191.196	EVT	78.750	2.080	theres a crab
2002/09/18	11:23:48	47.94804734	-129.09846621	2190.803	EVT	78.360	2.430	think we're coming up on S+M here
2002/09/18	11:24:15	47.94805227	-129.09842459	2190.898	EVT	78.560	2.190	looks like some venting coming up - Dave says we should see some on the seafloor as we arrive on S+M
2002/09/18	11:27:15	47.94804744	-129.09840222	2191.074	EVT	53.030	2.100	we are trying to figure out where to start looking around so we can get medea into position
2002/09/18	11:27:24	47.94804890	-129.09839956	2191.759	EVT	53.430	1.410	swinging around near the venting
2002/09/18	11:27:51	47.94805468	-129.09838893	2192.274	EVT	53.340	1.100	looks like some old weights
2002/09/18	11:28:13	47.94805373	-129.09838962	2192.490	EVT	53.400	0.920	looks like the crack that was sampled in 2000 says Dave
2002/09/18	11:29:05	47.94805393	-129.09839157	2192.551	EVT	53.590	0.910	we'll do some looking around here
2002/09/18	11:29:13	47.94805422	-129.09839156	2192.511	EVT	53.650	0.900	white "stuff" coming out of the crack
2002/09/18	11:30:32	47.94805275	-129.09839147	2192.409	EVT	53.590	0.990	probing into the crack here
2002/09/18	11:31:06	47.94805851	-129.09839417	2192.585	EVT	53.630	0.980	looks like a marker
2002/09/18	11:31:18	47.94806116	-129.09839224	2192.423	EVT	53.550	0.970	marker MT2?
2002/09/18	11:32:04	47.94805822	-129.09838835	2192.585	EVT	53.630	0.930	TEMP was 3.8 by the marker
2002/09/18	11:32:11	47.94805782	-129.09838834	2192.470	EVT	53.640	0.930	likely to be low temp place says Dave
2002/09/18	11:33:55	47.94806551	-129.09838892	2192.389	EVT	52.470	1.290	probing for TEMP again
2002/09/18	11:34:22	47.94806448	-129.09839044	2192.429	EVT	52.440	1.300	got up to 7.7 here
2002/09/18	11:34:44	47.94806360	-129.09839049	2192.314	EVT	52.470	1.320	back down to 4 - and back up a bit
2002/09/18	11:40:33	47.94802851	-129.09838524	2192.484	EVT	31.820	0.860	getting into the crack

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18	11:41:33	47.94801625	-129.09838017	2192.558	EVT	31.710	0.860	going up a bit along here
2002/09/18	11:41:43	47.94801154	-129.09837859	2192.565	EVT	31.720	0.860	TEMP up to 8
2002/09/18	11:41:51	47.94800850	-129.09837806	2192.463	EVT	31.740	0.860	going to sample here
2002/09/18	11:42:07	47.94800160	-129.09837647	2192.423	EVT	31.720	0.860	up to 8.9
2002/09/18	11:43:08	47.94797490	-129.09836767	2192.477	EVT	31.690	0.860	going to take bottle 24
2002/09/18	11:43:20	47.94796988	-129.09836587	2192.463	EVT	31.680	0.860	piston 24 sampling started
2002/09/18	11:48:44	47.94786105	-129.09831854	2192.416	EVT	31.720	0.870	still sampling with the butterfield sampler.
2002/09/18	11:51:06	47.94779726	-129.09828502	2192.511	EVT	31.690	0.860	stopped the sample. temp max 8.9 avg. 8.7 (T1). t2 is
	5.7.							
2002/09/18	11:51:30	47.94778813	-129.09828010	2192.517	EVT	31.690	0.860	starting filter #1.
2002/09/18	11:58:48	47.94762347	-129.09818857	2192.511	EVT	31.700	0.870	stopping filter
2002/09/18	11:59:41	47.94760256	-129.09817531	2192.524	EVT	31.690	0.870	filter 1 Tmax 9.1 Tavg 8.8 T1stdev 0.15 T2 5.0
	volume 602							
2002/09/18	11:59:54	47.94759909	-129.09817313	2192.402	EVT	31.690	0.870	going to run fluid past pH sensor for a couple
	minutes							
2002/09/18	12:00:12	47.94759430	-129.09817078	2192.470	EVT	31.690	0.870	going next to marker 8 near thermal blanket - and
	then off to East							
2002/09/18	12:01:27	47.94755619	-129.09814448	2192.477	EVT	31.720	0.870	pH reads at 7.95
2002/09/18	12:03:53	47.94755571	-129.09813884	2192.436	EVT	31.810	0.870	nozzle stowed and pH is going up above 8.02
2002/09/18	12:07:40	47.94755316	-129.09813868	2160.042	EVT	166.990	30.000	going to go right through the smoke of S+M
2002/09/18	12:11:51	47.94773774	-129.09873482	2160.069	EVT	168.770	30.000	background pH is stable (and has been quite stable) at
	8.03							
2002/09/18	12:22:11	47.94726773	-129.09863647	2190.064	EVT	172.660	6.940	top of milliQ
2002/09/18	12:22:20	47.94726572	-129.09864121	2190.539	EVT	195.330	6.780	the top is off to the left
2002/09/18	12:23:01	47.94722349	-129.09864790	2192.145	EVT	186.670	2.940	there's the thermal blanket
2002/09/18	12:25:30	47.94717835	-129.09866591	2193.846	EVT	186.050	0.940	grabbing thermal wubby - oops that's the thermal
	blanket							
2002/09/18	12:26:54	47.94717784	-129.09866608	2193.812	EVT	185.880	0.900	thermal blanket stowed for transit
2002/09/18	12:27:13	47.94717927	-129.09866780	2193.046	EVT	186.560	2.030	well, probably shouldn't call it a transit as we are
	going only 50 meters							
2002/09/18	12:31:11	47.94720102	-129.09848507	2192.328	EVT	90.730	5.750	changing tapes
2002/09/18	12:45:35	47.94726657	-129.09793932	2209.783	EVT	89.450	2.670	looks like a good spot to deploy the thermal wubby
2002/09/18	12:45:42	47.94726686	-129.09793957	2209.756	EVT	89.400	2.240	oh yeah - and all tapes are changed
2002/09/18	12:46:12	47.94726769	-129.09794021	2209.634	EVT	89.500	2.720	looks good - blanket deployed
2002/09/18	12:51:12	47.94729617	-129.09793733	2191.576	EVT	90.170	16.700	thermal blanket is at target 11
2002/09/18	12:52:17	47.94729581	-129.09793722	2186.649	EVT	90.340	20.990	target 11 - thermal wubby - x:492687 y:5310447
2002/09/18	13:26:31	47.94771020	-129.09805461	2147.409	EVT	9.770	30.000	by the way - we are on the way to hulk
2002/09/18	13:41:27	47.94961218	-129.09755659	2193.310	EVT	206.220	3.140	looks like we are getting near the bottom
2002/09/18	13:42:16	47.94957804	-129.09757113	2193.493	EVT	199.150	3.420	fish near the crack
2002/09/18	13:42:40	47.94954870	-129.09759926	2193.629	EVT	195.210	3.040	crab
2002/09/18	13:44:32	47.94951434	-129.09761839	2192.517	EVT	194.230	4.070	we think this is Hylk

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18	13:44:42	47.94951296	-129.09761805	2191.589	EVT	194.100	4.810	it is something whatever it is
2002/09/18	13:46:23	47.94950001	-129.09762466	2183.796	EVT	194.170	12.260	here's the top
2002/09/18	13:46:28	47.94949944	-129.09762454	2184.528	EVT	194.030	11.510	whatever this is it's pretty dead
2002/09/18	13:47:13	47.94949893	-129.09762529	2181.756	EVT	194.120	14.260	actually it looks like there's more to the south
2002/09/18	13:47:24	47.94949752	-129.09762501	2180.462	EVT	193.810	15.540	we are now 14 meters up and the structure is still
	going up							
2002/09/18	13:48:21	47.94949315	-129.09762601	2174.302	EVT	194.210	22.190	blank-text
2002/09/18	13:48:25	47.94949260	-129.09762630	2173.800	EVT	194.370	22.490	still going up
2002/09/18	13:48:28	47.94949252	-129.09762619	2173.129	EVT	194.290	23.290	blank-text
2002/09/18	13:48:31	47.94949290	-129.09762622	2172.452	EVT	194.300	24.190	blank-text
2002/09/18	13:48:34	47.94949339	-129.09762583	2171.882	EVT	194.200	24.400	is this the top?
2002/09/18	13:48:44	47.94949346	-129.09762507	2171.903	EVT	194.220	24.160	blank-text
2002/09/18	13:48:46	47.94949275	-129.09762499	2172.099	EVT	194.450	24.060	blank-text
2002/09/18	13:48:57	47.94949272	-129.09762499	2171.286	EVT	194.390	25.020	still have another target to the south on the sonar
2002/09/18	13:49:07	47.94949206	-129.09762583	2171.557	EVT	194.510	24.930	going to zoom in to make sure it isn't venting
2002/09/18	13:49:16	47.94949088	-129.09762689	2169.985	EVT	194.450	26.360	blank-text
2002/09/18	13:49:26	47.94948603	-129.09762884	2171.015	EVT	194.450	24.940	blank-text
2002/09/18	13:49:32	47.94948234	-129.09763075	2171.144	EVT	194.400	24.780	25 meters tall
2002/09/18	13:49:40	47.94948256	-129.09763061	2170.656	EVT	194.360	25.290	closeup of top
2002/09/18	13:49:52	47.94948320	-129.09763012	2171.022	EVT	194.160	24.810	blank-text
2002/09/18	13:49:54	47.94948309	-129.09763014	2171.150	EVT	194.280	24.860	blank-text
2002/09/18	13:49:58	47.94948289	-129.09763014	2171.049	EVT	194.190	24.910	blank-text
2002/09/18	13:50:11	47.94948338	-129.09762938	2170.913	EVT	194.110	25.350	nothing coming out
2002/09/18	13:50:15	47.94948342	-129.09762945	2170.893	EVT	194.250	25.470	blank-text
2002/09/18	13:50:18	47.94948327	-129.09762934	2171.089	EVT	194.270	24.800	blank-text
2002/09/18	13:54:12	47.94943756	-129.09770389	2177.195	EVT	199.610	16.250	this is the return on the sonar south of the spire we
	just looked at							
2002/09/18	13:54:19	47.94943573	-129.09770578	2177.697	EVT	199.290	16.710	moving in to see if it is hulk
2002/09/18	13:54:25	47.94943612	-129.09770664	2176.504	EVT	192.430	17.510	it's taller than the last one whatever it is
2002/09/18	13:55:35	47.94939961	-129.09771616	2178.551	EVT	191.760	15.900	looks like smoke coming from below
2002/09/18	13:57:02	47.94940239	-129.09774325	2178.212	EVT	192.000	17.160	passing through some smoke
2002/09/18	13:58:13	47.94941144	-129.09773784	2179.987	EVT	192.360	15.130	blank-text
2002/09/18	13:58:32	47.94940658	-129.09774090	2179.174	EVT	192.370	16.240	looking for a good smokey spot
2002/09/18	13:59:40	47.94939874	-129.09774563	2174.329	EVT	192.920	21.060	going to go up along the spire to see if there's a more
	accessible smoker							
2002/09/18	14:00:44	47.94940420	-129.09774585	2173.658	EVT	192.770	21.450	dropping back down a bit now
2002/09/18	14:02:33	47.94938456	-129.09774538	2178.842	EVT	191.620	16.520	going to sample this smoker
2002/09/18	14:04:02	47.94937324	-129.09776658	2181.499	EVT	190.160	11.900	blank-text
2002/09/18	14:04:08	47.94937318	-129.09776660	2181.560	EVT	190.040	11.290	set down near smoker
2002/09/18	14:04:12	47.94937315	-129.09776663	2181.526	EVT	189.720	11.260	blank-text
2002/09/18	14:04:14	47.94937314	-129.09776666	2181.478	EVT	189.670	11.260	blank-text

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18	14:04:36	47.94937203	-129.09776501	2181.234	EVT	173.750	13.460	going to try to reposition a bit closer
2002/09/18	14:05:59	47.94937104	-129.09775673	2181.336	EVT	174.260	13.490	this might work
2002/09/18	14:07:24	47.94937102	-129.09775661	2181.370	EVT	174.560	13.710	going to use Butterfield nozzle to take a temp reading
2002/09/18	14:07:36	47.94937105	-129.09775660	2181.248	EVT	174.490	13.890	and then we'll sample with the major sampler
2002/09/18	14:08:29	47.94937100	-129.09775689	2181.255	EVT	174.870	13.750	getting probe into smoke
2002/09/18	14:10:03	47.94937098	-129.09775705	2181.295	EVT	174.940	13.780	temp up to 250
2002/09/18	14:11:15	47.94937157	-129.09775632	2181.194	EVT	175.090	13.780	TEMP peaking around 265
2002/09/18	14:11:40	47.94937161	-129.09775630	2181.268	EVT	175.020	13.640	TEMP got up to 265
2002/09/18	14:11:50	47.94937156	-129.09775642	2181.187	EVT	174.820	14.150	now going to grab a major bottle and a gas tight and
	sample							
2002/09/18	14:12:35	47.94937180	-129.09775636	2181.146	EVT	174.850	13.750	takikng t
2002/09/18	14:12:43	47.94937179	-129.09775637	2181.146	EVT	174.990	13.740	taking the green gas tight first
2002/09/18	14:14:09	47.94937181	-129.09775670	2181.309	EVT	174.090	13.710	gas tight in claw
2002/09/18	14:14:55	47.94937188	-129.09775680	2181.207	EVT	173.400	13.970	working the nozzle into the smoke flow
2002/09/18	14:15:27	47.94937199	-129.09775662	2181.323	EVT	173.850	13.740	sampling with gas tight
2002/09/18	14:15:38	47.94937202	-129.09775663	2181.404	EVT	173.840	13.710	plunger in
2002/09/18	14:16:19	47.94937199	-129.09775667	2181.295	EVT	174.190	13.960	sample finished - green gas tight
2002/09/18	14:16:39	47.94937179	-129.09775700	2181.289	EVT	174.280	13.670	replacing sampler - getting out the major bottle next
2002/09/18	14:18:19	47.94937228	-129.09775671	2181.350	EVT	174.760	13.570	pulling out major bottle now
2002/09/18	14:19:20	47.94937215	-129.09775699	2181.370	EVT	173.980	13.610	this could be hairy - the major bottle is sitting with
	the handle underneath							
2002/09/18	14:19:35	47.94937215	-129.09775701	2181.363	EVT	173.790	13.630	underneatht the ICL that is
2002/09/18	14:23:06	47.94937184	-129.09775731	2181.356	EVT	174.990	13.600	looks like this is bottle 14 we are going for
2002/09/18	14:23:14	47.94937194	-129.09775714	2181.356	EVT	175.120	13.730	it has blue tape all over it
2002/09/18	14:24:13	47.94937187	-129.09775757	2181.397	EVT	174.320	13.680	got the bottle - going to sample now
2002/09/18	14:25:18	47.94937223	-129.09775710	2181.336	EVT	175.010	13.650	that looks good
2002/09/18	14:25:25	47.94937229	-129.09775713	2181.255	EVT	174.960	13.640	really streaming out the tattletale
2002/09/18	14:25:40	47.94937233	-129.09775711	2181.295	EVT	175.010	13.650	filling bottle
2002/09/18	14:27:41	47.94937299	-129.09775638	2181.377	EVT	174.650	13.620	sample finished - putting major bottle 14 away
2002/09/18	14:28:04	47.94937331	-129.09775616	2181.316	EVT	174.630	13.590	changing tapes
2002/09/18	14:29:10	47.94937389	-129.09775554	2181.458	EVT	174.700	13.610	can't get biobox out so we'll sample a tubeworm
	clump with the beast then grab a clump of worms and back off							
2002/09/18	14:32:16	47.94937478	-129.09775524	2181.546	EVT	174.930	13.550	whoops... now bio sample here - going to take a beast
	sample							
2002/09/18	14:33:41	47.94937450	-129.09775578	2181.472	EVT	174.890	13.690	good shot of worms
2002/09/18	14:33:47	47.94937451	-129.09775579	2181.356	EVT	174.930	13.700	finding a spot to get the beast nozzle in
2002/09/18	14:34:22	47.94937451	-129.09775591	2181.295	EVT	174.800	13.760	TEMP up to 4 - will look for a higher temp before
	taking sample							
2002/09/18	14:35:28	47.94937477	-129.09775587	2181.390	EVT	174.220	13.730	TEMP up to 5 degrees
2002/09/18	14:35:42	47.94937480	-129.09775590	2181.316	EVT	174.360	13.740	trying poking it around a bit
2002/09/18	14:36:46	47.94937445	-129.09775649	2181.424	EVT	174.580	13.690	TEMP up to 5.5 here

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18	14:44:33	47.94937521	-129.09775568	2181.492	EVT	174.320	13.960	TEMP spiked up to 18 here
2002/09/18	14:44:57	47.94937525	-129.09775561	2181.451	EVT	174.380	13.740	we'll start some sampling here
2002/09/18	14:48:58	47.94937552	-129.09775555	2181.526	EVT	174.450	13.780	started sterivex 13
2002/09/18	14:54:50	47.94937639	-129.09775496	2181.621	EVT	175.220	13.640	stopped temporarily at 510ml
2002/09/18	14:55:35	47.94937639	-129.09775512	2181.702	EVT	175.010	13.670	looking for warmer spot
2002/09/18	14:57:06	47.94937637	-129.09775536	2181.627	EVT	175.000	13.720	29degrees here
2002/09/18	15:01:30	47.94937630	-129.09775579	2181.627	EVT	174.790	13.720	lost the 30degree spot, this is 19-20
2002/09/18	15:02:14	47.94937622	-129.09775592	2181.587	EVT	174.850	13.970	restarted sterivex 13
2002/09/18	15:02:19	47.94937622	-129.09775591	2181.655	EVT	174.890	13.750	temp up to 19
2002/09/18	15:03:35	47.94937630	-129.09775591	2181.641	EVT	175.000	13.890	temp was down to 12 when sterivex stopped
2002/09/18	15:07:39	47.94937649	-129.09775618	2181.627	EVT	174.230	13.750	stopped sterivex 13
2002/09/18	15:09:13	47.94937665	-129.09775596	2181.716	EVT	174.330	13.860	correction, it stopped now
2002/09/18	15:09:44	47.94937661	-129.09775599	2181.709	EVT	174.690	13.950	tmax 19.1 tavg 14.7 t2 6 vol 1114ml
2002/09/18	15:10:12	47.94937675	-129.09775578	2181.702	EVT	175.000	13.760	tavg only applied to fluid taken after second start
2002/09/18	15:11:07	47.94937684	-129.09775580	2181.655	EVT	175.030	13.770	GFF filter 15 started
2002/09/18	15:20:54	47.94937813	-129.09775441	2181.770	EVT	175.010	13.910	stopped sample
2002/09/18	15:21:31	47.94937827	-129.09775424	2181.810	EVT	175.070	13.710	tmax 19.8 tavg 15.6 vol 1016ml t2 8
2002/09/18	15:22:17	47.94937818	-129.09775395	2181.790	EVT	174.940	13.690	filtered bag 17 started
2002/09/18	15:25:02	47.94937847	-129.09775369	2181.892	EVT	175.030	13.540	exhaust view
2002/09/18	15:28:05	47.94937893	-129.09775296	2181.838	EVT	174.480	13.790	sample stopped
2002/09/18	15:28:46	47.94937889	-129.09775298	2181.878	EVT	174.760	13.830	tmax 22.6 tavg 17.2 std. dev. 3.5 t2 6.5 vol 606ml
2002/09/18	15:29:26	47.94937905	-129.09775276	2181.749	EVT	174.700	13.790	unfiltered bag 19 started
2002/09/18	15:35:07	47.94937792	-129.09775449	2181.824	EVT	174.660	13.550	sample stopped
2002/09/18	15:35:36	47.94937794	-129.09775455	2182.075	EVT	174.840	13.720	tmax 14.3 tavg 12.1 std. dev 1.37 t2 6.5 vol 605ml
2002/09/18	15:37:46	47.94937794	-129.09775474	2181.980	EVT	174.910	13.730	temp down to 7.5 now
2002/09/18	15:38:57	47.94937762	-129.09775495	2181.932	EVT	174.800	13.730	temp back up to 10 or so
2002/09/18	15:39:04	47.94937765	-129.09775490	2182.021	EVT	174.790	13.740	RNA sample 10 started
2002/09/18	15:50:04	47.94938055	-129.09775224	2182.075	EVT	174.890	13.750	sample stopped
2002/09/18	15:50:32	47.94938070	-129.09775207	2182.048	EVT	174.920	14.230	tmax 12.8 tavg 9.0 std. dev. 1.76 t2 4.2 vol 1000ml
2002/09/18	15:51:22	47.94938072	-129.09775232	2182.034	EVT	174.850	13.730	taking temp of smoker
2002/09/18	15:53:32	47.94937897	-129.09775516	2182.034	EVT	174.870	13.720	max temp=347.8
2002/09/18	15:54:35	47.94937797	-129.09775672	2182.129	EVT	174.840	13.740	steady at 347
2002/09/18	15:55:12	47.94937704	-129.09775812	2181.973	EVT	174.540	13.890	moving intake away from vent
2002/09/18	15:55:51	47.94937637	-129.09775915	2182.041	EVT	174.630	13.730	trying to get stable temp around 30
2002/09/18	15:56:31	47.94937613	-129.09775959	2182.136	EVT	174.620	13.720	90 here
2002/09/18	15:56:52	47.94937627	-129.09775953	2182.021	EVT	174.610	13.730	50 here
2002/09/18	15:57:32	47.94937645	-129.09775945	2181.966	EVT	174.560	13.900	steady at 28-30
2002/09/18	15:57:47	47.94937669	-129.09775920	2182.109	EVT	174.560	13.720	starting sample
2002/09/18	15:57:58	47.94937674	-129.09775910	2182.082	EVT	174.610	13.710	matt guesses 1m above vent
2002/09/18	15:58:19	47.94937696	-129.09775887	2182.082	EVT	174.580	14.000	sample is filtered bag 18 (mukul's black smoke sample)

Event log: LEXEN 2002
Dive J2-010

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18	16:01:59	47.94937783	-129.09775782	2182.021	EVT	174.530	13.950	stopped sample
2002/09/18	16:02:53	47.94937797	-129.09775781	2182.102	EVT	174.530	13.880	tmax 38.3 tavg 29.6 stddev 3.9 t2 18.5 vol 353ml
2002/09/18	16:03:59	47.94937820	-129.09775757	2182.054	EVT	174.410	13.870	moved intake higher, lower temp
2002/09/18	16:04:07	47.94937824	-129.09775753	2182.122	EVT	174.480	14.240	sample started bag 9
2002/09/18	16:07:00	47.94937944	-129.09775651	2182.082	EVT	174.620	13.720	sample stopped
2002/09/18	16:07:36	47.94937967	-129.09775626	2182.244	EVT	174.770	13.830	tmax 11.5 tavg 7.1 stddev 2.1 t2 5.6 vol 301ml
2002/09/18	16:07:39	47.94937978	-129.09775614	2182.082	EVT	174.800	14.040	done sampling
2002/09/18	16:09:18	47.94937929	-129.09775718	2182.156	EVT	174.900	13.660	plan is to grab bio sample, release elevator, then
	recover jason							
2002/09/18	16:09:39	47.94937912	-129.09775746	2182.353	EVT	174.890	13.660	(bad weather is moving in)
2002/09/18	16:15:08	47.94940368	-129.09775834	2182.773	EVT	174.000	13.510	crab
2002/09/18	16:15:32	47.94940364	-129.09775803	2182.956	EVT	174.010	13.310	looking for cool place to take bio sample
2002/09/18	16:16:48	47.94939984	-129.09775740	2183.525	EVT	173.930	12.930	this spot looks good to janet
2002/09/18	16:20:30	47.94939439	-129.09775407	2183.782	EVT	172.340	12.770	grabbing bio stuff
2002/09/18	16:20:53	47.94939463	-129.09775386	2183.640	EVT	172.090	12.780	putting in bio box
2002/09/18	16:21:57	47.94939514	-129.09775345	2183.755	EVT	172.780	12.780	grabbing more
2002/09/18	16:22:12	47.94939494	-129.09775324	2183.742	EVT	172.220	12.790	putting in box
2002/09/18	16:22:27	47.94939500	-129.09775331	2183.681	EVT	172.290	12.810	floating worm
2002/09/18	16:23:01	47.94939525	-129.09775265	2183.599	EVT	172.420	12.850	grabbing one more grab
2002/09/18	16:23:09	47.94939531	-129.09775259	2183.620	EVT	172.320	12.850	blank-text
2002/09/18	16:23:24	47.94939536	-129.09775236	2183.640	EVT	172.320	12.850	"that's disgusting" - matt h
2002/09/18	16:23:45	47.94939533	-129.09775237	2183.708	EVT	172.420	12.810	bio box is full
2002/09/18	16:23:55	47.94939536	-129.09775233	2183.708	EVT	172.400	12.850	blank-text
2002/09/18	16:26:49	47.94940486	-129.09774942	2183.064	EVT	177.050	13.650	we're off to the elevator
2002/09/18	16:32:46	47.94924165	-129.09769355	2159.663	EVT	163.940	23.650	on our way
2002/09/18	16:55:05	47.94846453	-129.09886718	2184.386	EVT	14.530	11.470	possibly found elevator on sonar
2002/09/18	16:56:33	47.94851907	-129.09885844	2186.988	EVT	343.890	8.580	there it is
2002/09/18	16:57:09	47.94855415	-129.09887336	2192.260	EVT	343.660	3.760	blank-text
2002/09/18	16:57:52	47.94856723	-129.09887890	2194.137	EVT	343.830	1.830	crab inside box
2002/09/18	16:58:14	47.94856724	-129.09887910	2194.151	EVT	343.610	1.620	he's going to get a ride
2002/09/18	17:00:24	47.94860070	-129.09894639	2195.235	EVT	87.260	1.440	crab next to elevator
2002/09/18	17:01:18	47.94860064	-129.09894547	2195.120	EVT	90.110	1.760	making sure everything is secure
2002/09/18	17:01:39	47.94860533	-129.09894521	2195.059	EVT	90.110	1.940	blank-text
2002/09/18	17:01:53	47.94860581	-129.09894577	2194.998	EVT	89.710	1.930	two crabs on elevator
2002/09/18	17:02:17	47.94860700	-129.09894565	2194.835	EVT	97.660	2.340	blank-text
2002/09/18	17:08:49	47.94859095	-129.09887961	2195.608	EVT	295.390	0.880	we've got crabs
2002/09/18	17:13:44	47.94858960	-129.09888188	2195.425	EVT	300.960	0.800	waiting for ship to get in position
2002/09/18	17:16:23	47.94858806	-129.09888046	2195.404	EVT	300.980	0.800	blank-text
2002/09/18	17:16:32	47.94858829	-129.09887962	2195.425	EVT	301.070	0.810	closeup of crab
2002/09/18	17:16:51	47.94858804	-129.09887978	2195.438	EVT	300.990	0.800	he's eating
2002/09/18	17:17:04	47.94858798	-129.09887935	2195.384	EVT	301.030	0.800	frame grabs of crab eating

Event log: LEXEN 2002**Dive J2-010**

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/18	17:17:25	47.94858810	-129.09887877	2195.472	EVT	301.070	0.800	blank-text
2002/09/18	17:17:51	47.94858796	-129.09887922	2195.465	EVT	301.030	0.800	blank-text
2002/09/18	17:18:29	47.94858751	-129.09887868	2195.594	EVT	300.950	0.790	blank-text
2002/09/18	17:18:46	47.94858745	-129.09887894	2195.547	EVT	301.030	0.800	blank-text
2002/09/18	17:19:27	47.94858693	-129.09887871	2195.519	EVT	301.030	0.790	blank-text
2002/09/18	17:20:58	47.94858605	-129.09888111	2195.445	EVT	300.910	0.800	blank-text
2002/09/18	17:22:04	47.94858625	-129.09888049	2195.533	EVT	300.940	0.790	blank-text
2002/09/18	17:23:11	47.94858652	-129.09887472	2195.404	EVT	300.800	0.780	ok, done watching crab eat
2002/09/18	17:23:42	47.94858658	-129.09887221	2195.431	EVT	301.190	0.810	pulling release line
2002/09/18	17:23:56	47.94858643	-129.09887366	2195.621	EVT	301.020	0.790	lift off
2002/09/18	17:24:18	47.94858625	-129.09887325	2195.519	EVT	300.720	0.770	elevator released, on its way up
2002/09/18	17:27:50	47.94857852	-129.09884445	2194.279	EVT	291.650	2.250	jason leaving bottom

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20	02:25:11	47.94627151	-129.09522493	1.233	EVT	295.160	30.000	pre dive
2002/09/20	02:57:44	47.94947851	129.09430844	0.541	EVT	320.620	30.000	beginning to go in h20
2002/09/20	02:58:12	47.94947856	129.09430866	0.541	EVT	321.220	30.000	did I just get a netscape security alarm
2002/09/20	02:58:21	47.94947829	129.09430813	0.582	EVT	320.350	30.000	yep make it go away
2002/09/20	02:58:54	47.94947774	129.09430739	0.671	EVT	318.040	30.000	beginning launch
2002/09/20	03:00:35	47.94947709	129.09430678	0.808	EVT	316.250	30.000	medea going over the side
2002/09/20	03:01:24	47.94947876	129.09430852	0.863	EVT	320.990	30.000	jason in the air
2002/09/20	03:01:37	47.94946268	129.09430018	0.904	EVT	280.590	30.000	going into water
2002/09/20	03:01:39	47.94946136	129.09430030	0.883	EVT	277.420	30.000	jason entering water\
2002/09/20	03:02:06	47.94944252	129.09431592	0.890	EVT	224.520	30.000	waiting for right swell
2002/09/20	03:02:16	47.94944281	129.09431721	0.918	EVT	224.450	30.000	in water now
2002/09/20	03:02:27	47.94943430	129.09430116	1.911	EVT	222.960	30.000	jason is submerged
2002/09/20	03:03:13	47.94938061	129.09423259	2.328	EVT	225.680	30.000	pin pulled, driving away from ship
2002/09/20	03:03:35	47.94931461	129.09421115	2.417	EVT	193.860	30.000	starting down slow
2002/09/20	03:04:13	47.94933575	129.09417827	3.992	EVT	145.870	30.000	still bubbling down
2002/09/20	03:08:01	47.94959892	129.09383181	50.921	EVT	118.540	30.000	at 40 meters depth\
2002/09/20	03:11:58	47.94991214	129.09314634	61.676	EVT	127.580	30.000	van has control of winch
2002/09/20	03:22:24	47.95048974	129.09204073	420.526	EVT	123.350	30.000	on our way down
2002/09/20	03:33:14	47.95117145	129.09065487	778.684	EVT	114.050	30.000	checking our depth
2002/09/20	04:09:51	47.94656005	-129.09723641	1977.020	EVT	127.750	30.000	medea has the bottom in sight
2002/09/20	04:10:19	47.94655670	-129.09725582	1993.692	EVT	127.640	30.000	sorry, that means bottom in the altimeter
2002/09/20	04:14:03	47.94662217	-129.09737882	2123.820	EVT	126.520	30.000	medea at 100m off botom
2002/09/20	04:15:22	47.94675452	-129.09761859	2133.737	EVT	279.680	30.000	nearing bottom
2002/09/20	04:22:00	47.94716371	-129.09789774	2195.960	EVT	295.230	14.420	getting close to the bottom
2002/09/20	04:22:21	47.94715141	-129.09789501	2203.475	EVT	296.020	7.280	bottom in sight
2002/09/20	04:24:54	47.94723637	-129.09794852	2207.845	EVT	357.680	1.990	found thermal blanket
2002/09/20	04:25:29	47.94724466	-129.09791061	2209.072	EVT	357.700	1.660	
2002/09/20	04:25:47	47.94725072	-129.09793107	2208.685	EVT	9.240	1.410	blankee in site/sight
2002/09/20	04:26:21	47.94725890	-129.09792457	2209.004	EVT	9.870	1.040	closing in on blanket
2002/09/20	04:29:03	47.94727255	-129.09792530	2210.413	EVT	9.030	30.000	
2002/09/20	04:29:07	47.94727340	-129.09792332	2210.386	EVT	11.500	30.000	lift
2002/09/20	04:29:56	47.94727903	-129.09792148	2210.542	EVT	10.780	30.000	lifting blanket now
2002/09/20	04:29:57	47.94727860	-129.09792204	2210.576	EVT	10.160	30.000	lifting up blanket now
2002/09/20	04:30:03	47.94727811	-129.09792251	2210.630	EVT	9.640	30.000	
2002/09/20	04:30:11	47.94727825	-129.09792186	2210.542	EVT	10.240	30.000	blanket up
2002/09/20	04:30:51	47.94727986	-129.09792566	2210.569	EVT	10.880	30.000	blanket stowed
2002/09/20	04:30:54	47.94727985	-129.09792558	2210.542	EVT	11.170	30.000	
2002/09/20	04:31:04	47.94727972	-129.09792580	2210.542	EVT	11.250	30.000	blanket secured
2002/09/20	04:31:13	47.94728060	-129.09792877	2210.610	EVT	10.010	30.000	
2002/09/20	04:31:25	47.94728067	-129.09792886	2210.454	EVT	11.740	30.000	blanket stowed and secured
2002/09/20	04:34:01	47.94727840	-129.09792040	2205.819	EVT	87.200	6.440	blanket en route to site 'C' - much like Site "B".

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20	04:39:57	47.94728888	-129.09763879	2205.826	EVT	87.220	6.910	
2002/09/20	04:56:22	47.94735309	-129.09608024	2211.491	EVT	87.020	5.920	we are picking up thermal blanket to see where a
		loose polypro line came from.						
2002/09/20	04:59:28	47.94736471	-129.09579736	2212.182	EVT	86.860	2.070	we are at the site we are going to deploy thermal
		blanket						
2002/09/20	05:01:01	47.94738304	-129.09578170	2212.893	EVT	87.260	1.750	blank-text
2002/09/20	05:01:30	47.94738283	-129.09577416	2213.429	EVT	87.600	0.830	blank-text
2002/09/20	05:01:52	47.94738315	-129.09577454	2213.429	EVT	87.760	0.750	blank-text
2002/09/20	05:02:04	47.94738304	-129.09577586	2213.218	EVT	86.880	0.830	blanket is down
2002/09/20	05:02:12	47.94738352	-129.09577512	2213.537	EVT	86.780	0.720	we dropped the thermal blanket
2002/09/20	05:03:40	47.94738248	-129.09576130	2214.445	EVT	133.410	1.150	blank-text
2002/09/20	05:05:29	47.94739363	-129.09576340	2214.431	EVT	133.380	1.160	blank-text
2002/09/20	05:06:29	47.94739649	-129.09576431	2214.486	EVT	133.050	1.210	picking it up again
2002/09/20	05:06:51	47.94739738	-129.09576405	2214.486	EVT	133.240	1.130	blank-text
2002/09/20	05:07:00	47.94739725	-129.09576423	2214.458	EVT	133.230	1.160	repositioning the thermal blanket
2002/09/20	05:09:58	47.94740305	-129.09576837	2215.048	EVT	136.490	1.440	still positioning the thermal blanket
2002/09/20	05:10:21	47.94740471	-129.09577021	2214.506	EVT	136.390	1.980	we are happy with the thermal blanket position.
2002/09/20	05:10:36	47.94740685	-129.09577157	2213.835	EVT	136.510	2.100	paul is happy, anyway
2002/09/20	05:13:40	47.94741915	-129.09578693	2212.541	EVT	136.670	4.060	blank-text
2002/09/20	05:13:41	47.94741915	-129.09578722	2212.541	EVT	136.650	4.050	The thermal blanket site is nav target
2002/09/20	05:13:42	47.94741918	-129.09578736	2212.473	EVT	136.630	4.120	blank-text
2002/09/20	05:13:44	47.94741925	-129.09578741	2212.487	EVT	136.610	4.090	blank-text
2002/09/20	05:14:47	47.94741910	-129.09578734	2212.534	EVT	136.670	4.140	thermal blanket given nav target 16
2002/09/20	05:18:04	47.94747647	-129.09604205	2210.678	EVT	288.380	5.640	we are now heading to go get the Lang Sampler
2002/09/20	05:24:45	47.94753820	-129.09659843	2201.374	EVT	288.540	11.750	blank-text
2002/09/20	05:24:54	47.94753863	-129.09659687	2199.416	EVT	289.080	14.110	big wall on the way there and back
2002/09/20	05:29:08	47.94762329	-129.09698302	2205.961	EVT	288.290	6.180	lang sampler in sight
2002/09/20	05:30:55	47.94764978	-129.09709556	2205.270	EVT	288.210	7.420	barrel sampler also in sight
2002/09/20	05:36:40	47.94761522	-129.09722060	2206.958	EVT	339.550	6.620	we have picked up the lang sampler and are moving
		closer to the barrel sampler						
2002/09/20	05:37:11	47.94761543	-129.09722089	2205.751	EVT	339.440	7.840	top of lang sampler is 6.6 m above the deck
2002/09/20	05:43:14	47.94775175	-129.09726755	2212.039	EVT	289.500	2.830	samplers side by side
2002/09/20	05:43:40	47.94775153	-129.09726706	2211.789	EVT	289.580	2.890	blank-text
2002/09/20	05:49:02	47.94775497	-129.09728683	2211.071	EVT	289.580	3.770	grabbing elevator
2002/09/20	05:49:31	47.94774976	-129.09728769	2211.016	EVT	283.920	3.570	the lang sampler is much taller than the barrel
		sampler						
2002/09/20	05:50:00	47.94775019	-129.09728922	2211.199	EVT	284.040	3.670	grabbing lang sampler
2002/09/20	05:55:03	47.94773661	-129.09730954	2207.398	EVT	325.200	5.290	moving away from Lang sampler
2002/09/20	05:56:04	47.94772740	-129.09729777	2211.267	EVT	325.780	2.720	back at Lang sapler
2002/09/20	05:57:12	47.94772857	-129.09729706	2211.172	EVT	325.390	2.800	observing both Lang sampler and elevator

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20 06:03:31		47.94770661	-129.09731770	2175.339	EVT	303.820	19.960	we have picked up the lang sampler and are heading over to the main field
2002/09/20 06:28:09		47.94785773	-129.09885271	2142.840	EVT	304.900	30.000	still moving Lang sampler
2002/09/20 06:38:39		47.94749819	-129.09879986	2190.437	EVT	305.040	5.610	dropped lang sampler off at intermediate site before we go to Puffer
2002/09/20 06:47:52		47.94747397	-129.09878991	2186.378	EVT	215.150	9.840	we are going to go up and over puffer and then approach it from the south
2002/09/20 07:10:20		47.94768699	-129.09925128	2189.292	EVT	358.740	7.030	bottom is now visible
2002/09/20 07:10:36		47.94768641	-129.09925084	2191.304	EVT	358.880	6.260	crab
2002/09/20 07:11:11		47.94766765	-129.09924836	2193.093	EVT	358.500	2.970	lots of stuff in the water - visible in medea's view
2002/09/20 07:12:14		47.94765179	-129.09928735	2192.775	EVT	351.260	3.990	we found marker p near a smoker
2002/09/20 07:15:38		47.94765358	-129.09929405	2193.012	EVT	350.790	3.980	we will take the temperature of the vent right in front of us
2002/09/20 07:19:44		47.94765377	-129.09929292	2193.039	EVT	351.050	3.980	the ICL temperature probe is not working
2002/09/20 07:23:47		47.94765522	-129.09929361	2192.782	EVT	350.980	4.200	the ICL is working
2002/09/20 07:24:39		47.94768987	-129.09931022	2193.866	EVT	350.540	3.100	the marker next to the vent right in front of us is marker letter P
2002/09/20 07:24:54		47.94769064	-129.09931033	2193.568	EVT	351.220	3.400	blank-text
2002/09/20 07:25:00		47.94768775	-129.09930807	2193.263	EVT	351.310	3.820	blank-text
2002/09/20 07:25:18		47.94768743	-129.09930929	2193.832	EVT	350.730	3.050	this vent is not at the top of Puffer
2002/09/20 07:26:08		47.94768939	-129.09930914	2193.649	EVT	349.010	3.340	venting
2002/09/20 07:26:14		47.94768936	-129.09930879	2193.547	EVT	349.170	3.560	taking temperature
2002/09/20 07:26:30		47.94768976	-129.09930974	2193.588	EVT	349.030	3.560	prode at the exit of the vent
2002/09/20 07:26:36		47.94768966	-129.09930969	2193.737	EVT	348.870	3.410	vent and marker P
2002/09/20 07:26:47		47.94768951	-129.09930950	2193.683	EVT	348.840	3.450	venting black smoke
2002/09/20 07:27:14		47.94768969	-129.09930988	2193.581	EVT	348.900	3.510	taking temperature of vent P
2002/09/20 07:27:31		47.94768960	-129.09930986	2193.656	EVT	348.780	3.480	taking temperature of vent P = 307
2002/09/20 07:27:45		47.94768973	-129.09930982	2193.602	EVT	348.810	3.500	knocked off part of vent
2002/09/20 07:27:55		47.94768981	-129.09931004	2193.581	EVT	348.870	3.510	knocked vent down
2002/09/20 07:28:00		47.94768977	-129.09931016	2193.724	EVT	349.250	3.440	base
2002/09/20 07:28:13		47.94769001	-129.09931062	2193.717	EVT	349.240	3.310	"now that an oraface" - Will S.
2002/09/20 07:28:28		47.94769048	-129.09931153	2193.690	EVT	349.030	3.350	taking temperature of vent P = 810
2002/09/20 07:28:37		47.94769066	-129.09931208	2193.595	EVT	348.940	3.500	at the base = 810
2002/09/20 07:30:00		47.94768996	-129.09931100	2193.608	EVT	348.610	3.520	the ICL read 310 at the top before we broke the vent
2002/09/20 07:30:53		47.94769059	-129.09931293	2193.744	EVT	349.090	3.380	close up of vent P
2002/09/20 07:31:02		47.94769061	-129.09931301	2193.669	EVT	348.960	3.360	taking temperature of vent P = 323
2002/09/20 07:31:30		47.94769129	-129.09931450	2193.717	EVT	348.900	3.350	taking temperature of vent P = 352
2002/09/20 07:32:34		47.94769180	-129.09931646	2193.649	EVT	349.210	3.360	353 is the highest recorded temperature
2002/09/20 07:34:27		47.94782296	-129.09923248	2193.608	EVT	349.110	3.390	we will take a Major sample here
2002/09/20 07:35:00		47.94782297	-129.09923280	2193.730	EVT	349.280	3.380	Major sample
2002/09/20 07:35:07		47.94782308	-129.09923303	2193.690	EVT	348.920	3.470	Major sample

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20 07:35:22		47.94782307	-129.09923326	2193.676	EVT	349.170	3.390	close up of Major sample
2002/09/20 07:35:45		47.94782296	-129.09923359	2193.724	EVT	349.040	3.330	Major sample number 11
2002/09/20 07:36:48		47.94782268	-129.09923296	2193.703	EVT	349.130	3.380	Major sample
2002/09/20 07:37:00		47.94782279	-129.09923338	2193.649	EVT	349.110	3.330	Major sample
2002/09/20 07:38:34		47.94782294	-129.09923330	2193.527	EVT	349.270	3.570	Major sample taken
2002/09/20 07:39:06		47.94782277	-129.09923295	2193.642	EVT	348.760	3.510	Major sample 11 finished
2002/09/20 07:42:18		47.94782234	-129.09925736	2194.374	EVT	32.020	3.960	the other side of the same vent
2002/09/20 07:43:14		47.94781421	-129.09923439	2192.375	EVT	342.060	4.740	the vent is spewing black smoke into Jason's view
2002/09/20 07:43:25		47.94781004	-129.09921991	2191.806	EVT	359.390	5.550	we will move back to where we were before
2002/09/20 07:44:03		47.94781917	-129.09922971	2194.327	EVT	327.810	1.110	repositioning near the vent
2002/09/20 07:45:20		47.94782137	-129.09922212	2193.819	EVT	302.430	2.260	blank-text
2002/09/20 07:45:21		47.94782140	-129.09922213	2193.880	EVT	302.440	2.260	blank-text
2002/09/20 07:45:26		47.94782134	-129.09922205	2193.873	EVT	302.370	2.260	vent base
2002/09/20 07:45:37		47.94782127	-129.09922196	2193.778	EVT	302.280	2.250	vent
2002/09/20 07:46:01		47.94782126	-129.09922200	2193.880	EVT	302.430	2.240	we will take a gastight sample here
2002/09/20 07:48:01		47.94782110	-129.09922186	2193.791	EVT	302.550	2.360	gastight sample "black"
2002/09/20 07:48:10		47.94782091	-129.09922277	2193.656	EVT	302.400	2.370	gastight sample "black"
2002/09/20 07:48:22		47.94782077	-129.09922389	2193.758	EVT	302.630	2.270	gastight sample "black" being taken
2002/09/20 07:50:11		47.94782046	-129.09922289	2193.669	EVT	302.610	2.270	gastight sample "black" it's in there
2002/09/20 07:50:47		47.94782023	-129.09922370	2193.785	EVT	302.460	2.370	gastight sample "black"
2002/09/20 07:56:25		47.94766886	-129.09941553	2193.371	EVT	218.510	7.010	blank-text
2002/09/20 07:56:32		47.94767170	-129.09940994	2193.439	EVT	263.080	6.730	large chimney
2002/09/20 07:56:42		47.94766565	-129.09941064	2192.978	EVT	246.450	7.460	tall vent
2002/09/20 07:57:27		47.94764542	-129.09944226	2192.653	EVT	314.660	8.460	vent
2002/09/20 07:57:44		47.94764079	-129.09948486	2192.592	EVT	39.250	8.150	vent
2002/09/20 07:58:40		47.94765416	-129.09950012	2192.091	EVT	49.160	7.650	top of tall vent
2002/09/20 08:05:11		47.94774770	-129.09919506	2195.458	EVT	20.220	0.770	marker As or A5 is here
2002/09/20 08:18:03		47.94797282	-129.09947175	2185.334	EVT	259.840	11.220	heading to Easter Island
2002/09/20 08:19:22		47.94794713	-129.09943550	2192.619	EVT	129.550	2.930	we are passing Peanut vent
2002/09/20 08:20:07		47.94796293	-129.09938100	2194.869	EVT	44.660	3.360	we are at 3 mavs
2002/09/20 08:20:29		47.94797710	-129.09937585	2194.442	EVT	43.300	3.570	This is Easter Island
2002/09/20 08:23:11		47.94799659	-129.09941427	2194.679	EVT	342.280	2.540	looking for diffuse flow coming out of basalt\
2002/09/20 08:25:30		47.94800422	-129.09937917	2191.494	EVT	342.540	5.980	now we are going to get the Lang sampler
2002/09/20 08:39:52		47.94859724	-129.09877785	2190.152	EVT	359.030	4.900	Lang sampler in view
2002/09/20 08:42:03		47.94870931	-129.09877798	2189.651	EVT	88.920	6.760	going to grab the Lang Sampler
2002/09/20 08:43:16		47.94870791	-129.09875184	2180.191	EVT	89.430	16.880	picked up the Lang Sampler
2002/09/20 09:05:57		47.94801742	-129.09939566	2173.224	EVT	208.070	23.430	We are heading down to the bottom now
2002/09/20 09:08:32		47.94801758	-129.09939868	2187.117	EVT	15.050	10.280	Easter Island is in view\
2002/09/20 09:09:15		47.94807454	-129.09939243	2187.998	EVT	14.300	9.360	Going down to Easter Island
2002/09/20 09:10:32		47.94804267	-129.09939979	2194.090	EVT	15.080	3.350	MAVs and Lang Sampler at Easter Island
2002/09/20 09:12:18		47.94801849	-129.09934399	2196.021	EVT	6.430	1.160	Positioning at Easter Island

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20	09:14:47	47.94802474	-129.09935275	2196.102	EVT	7.070	1.070	Preparing to take temperature with Butterfield sampler
2002/09/20	09:20:23	47.94802909	-129.09934750	2196.834	EVT	315.720	1.150	12 degrees right now
2002/09/20	09:20:39	47.94802847	-129.09934701	2196.834	EVT	315.690	1.180	12.7 maximum temperature
2002/09/20	09:20:51	47.94802849	-129.09934660	2196.780	EVT	315.660	1.150	trying another spot here
2002/09/20	09:21:10	47.94802909	-129.09934708	2196.780	EVT	315.610	1.140	15 degrees with Butterfield sampler
2002/09/20	09:21:13	47.94802911	-129.09934737	2196.780	EVT	315.610	1.160	20 degrees
2002/09/20	09:21:22	47.94802883	-129.09934754	2196.827	EVT	315.590	1.160	23 degrees
2002/09/20	09:22:16	47.94802846	-129.09934895	2196.793	EVT	315.490	1.160	26.8 degrees maximum temperature with the Butterfield Sampler
2002/09/20	09:22:43	47.94802797	-129.09934955	2196.780	EVT	315.500	1.180	27 degrees now
2002/09/20	09:23:10	47.94802819	-129.09934805	2196.746	EVT	315.560	1.160	putting the Butterfield probe back
2002/09/20	09:23:42	47.94802758	-129.09934842	2196.800	EVT	315.520	1.170	This is where we'll deploy the Lang sampler
2002/09/20	09:26:58	47.94803265	-129.09935677	2196.746	EVT	316.000	1.160	Organizing the basket
2002/09/20	09:29:21	47.94802123	-129.09942257	2194.930	EVT	349.340	2.360	Going to move the Lang sampler closer to the sampling site
2002/09/20	09:32:18	47.94803428	-129.09941978	2191.962	EVT	2.710	5.090	At the sampler
2002/09/20	09:34:38	47.94802836	-129.09943393	2194.327	EVT	21.740	2.420	We moved it
2002/09/20	09:34:44	47.94803063	-129.09943492	2194.632	EVT	21.650	2.150	Pulling out the intake
2002/09/20	09:37:59	47.94803609	-129.09943488	2195.465	EVT	21.950	1.440	Picking up the funnel intake
2002/09/20	09:38:42	47.94802693	-129.09937853	2194.496	EVT	13.260	2.840	Taking the intake to the diffuse flow
2002/09/20	09:40:49	47.94802972	-129.09935439	2196.766	EVT	331.770	1.240	Positioning the intake in a bush of worms and limpets where there is diffuse flow
2002/09/20	09:41:09	47.94802857	-129.09935424	2196.719	EVT	331.760	1.200	Lang sampler
2002/09/20	09:41:17	47.94802824	-129.09935432	2196.759	EVT	331.590	1.220	Lang sampler
2002/09/20	09:41:23	47.94802855	-129.09935416	2196.780	EVT	331.500	1.220	Lang sampler
2002/09/20	09:41:45	47.94802885	-129.09935502	2196.732	EVT	331.600	1.200	Lang sampler
2002/09/20	09:41:55	47.94802916	-129.09935552	2196.766	EVT	331.620	1.190	Lang sampler
2002/09/20	09:42:21	47.94802984	-129.09935527	2196.814	EVT	331.830	1.160	Can see exhaust coming out
2002/09/20	09:43:56	47.94803632	-129.09934611	2195.011	EVT	330.500	2.400	Going to pick up the two MAVs and transit to the instrument elevator
2002/09/20	09:46:37	47.94805527	-129.09933693	2195.845	EVT	302.870	1.540	Using both arms to manipulate the MAVs
2002/09/20	09:48:56	47.94811375	-129.09930235	2193.900	EVT	235.800	2.840	One MAV is in the starboard arm now
2002/09/20	09:50:40	47.94810244	-129.09938036	2195.858	EVT	217.670	1.250	Picking up the other MAV in the port arm
2002/09/20	09:52:37	47.94810666	-129.09937758	2195.025	EVT	217.960	1.940	Heading to the instrument elevator with the 2 MAVS from Easter Island
2002/09/20	10:26:30	47.94865601	-129.09745813	2174.322	EVT	58.250	30.000	Dropping down
2002/09/20	10:28:15	47.94870837	-129.09739683	2203.048	EVT	57.840	9.170	Elevator in medea's view
2002/09/20	10:29:32	47.94877088	-129.09726466	2208.333	EVT	57.120	2.300	Bottom in view
2002/09/20	10:30:00	47.94876392	-129.09721253	2209.539	EVT	58.930	2.760	Instrument elevator in view
2002/09/20	10:31:28	47.94878861	-129.09717742	2208.726	EVT	41.230	3.410	Positioning to put MAVs in elevator

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20	10:32:56	47.94879594	-129.09714884	2209.892	EVT	41.140	4.260	Placing port arm MAV in elevator
2002/09/20	10:33:23	47.94879333	-129.09714955	2209.939	EVT	41.060	3.990	Port MAV is in the elevator
2002/09/20	10:35:42	47.94879996	-129.09715310	2211.057	EVT	42.500	2.990	Placing starboard mav, #51, in elevator
2002/09/20	10:40:51	47.94880678	-129.09716590	2209.573	EVT	41.460	4.340	dropping MAV #51 in the elevator
2002/09/20	10:45:45	47.94880960	-129.09717090	2210.942	EVT	42.460	2.280	locking down the MAV
2002/09/20	10:50:01	47.94880971	-129.09717091	2210.854	EVT	41.330	2.280	tie
2002/09/20	10:50:08	47.94880973	-129.09717095	2210.969	EVT	42.050	2.240	locking down the other MAV
2002/09/20	10:56:36	47.94882995	-129.09715909	2210.549	EVT	132.430	0.880	that crab better move quick
2002/09/20	10:58:47	47.94883310	-129.09715821	2210.827	EVT	134.880	0.770	removing crab
2002/09/20	10:58:54	47.94883101	-129.09715800	2210.827	EVT	134.870	0.770	there he goes
2002/09/20	10:59:40	47.94882449	-129.09715793	2210.894	EVT	134.960	0.780	the majors basket has been de-crabbed and we are
going in to grab some bottles								
2002/09/20	11:03:24	47.94879907	-129.09716170	2210.860	EVT	134.980	0.760	collecting new major bottles and depositing the used
ones on elevator								
2002/09/20	11:12:56	47.94879967	-129.09716235	2210.657	EVT	135.090	0.780	still juggling major bottles
2002/09/20	11:18:43	47.94883113	-129.09716781	2210.630	EVT	134.170	0.750	putting used black gas tight into elevator
2002/09/20	11:30:57	47.94884092	-129.09713342	2211.247	EVT	224.830	1.290	grabbing HOB0 strings
2002/09/20	11:32:31	47.94884136	-129.09713017	2211.220	EVT	224.290	1.160	putting last HOB0 string in the basket
2002/09/20	11:39:23	47.94871393	-129.09711775	2188.784	EVT	138.350	23.280	Started the transit from elevator to thermal blanket.
2002/09/20	11:47:25	47.94793325	-129.09635032	2189.712	EVT	139.980	14.500	changing tapes
2002/09/20	11:57:39	47.94737178	-129.09570053	2206.260	EVT	138.820	7.320	almost at marker 16 - current thermal wubby spot
2002/09/20	12:00:08	47.94738688	-129.09558006	2213.727	EVT	136.350	0.840	grabbing thermal wubby - blankie
2002/09/20	12:01:27	47.94738689	-129.09557822	2213.639	EVT	136.550	1.570	got the thermal wubby - moving 100 meters East to
re-position it.								
2002/09/20	12:22:57	47.94736021	-129.09443491	2222.637	EVT	93.970	1.320	looks like a thermal wubby site
2002/09/20	12:24:44	47.94736043	-129.09444279	2222.860	EVT	87.200	0.800	placing the thermal wubby
2002/09/20	12:25:43	47.94735721	-129.09443565	2222.474	EVT	88.590	1.320	dropping the thermal wubby - kinda hard to see here
2002/09/20	12:26:07	47.94735766	-129.09443544	2222.549	EVT	88.700	1.330	checking placement of thermal wubby
2002/09/20	12:26:47	47.94735307	-129.09447617	2221.268	EVT	88.350	2.410	looks alright
2002/09/20	12:27:17	47.94735829	-129.09443832	2219.012	EVT	88.360	4.910	getting an xy position on thermal wubby spot
2002/09/20	12:30:18	47.94735666	-129.09444653	2213.049	EVT	88.220	10.380	back to the barrel sampler
2002/09/20	12:30:51	47.94735737	-129.09437202	2211.850	EVT	89.270	11.480	thermal wubby is at target 19
2002/09/20	13:05:23	47.94772745	-129.09710913	2206.456	EVT	344.450	5.540	at the elevator
2002/09/20	13:09:16	47.94775222	-129.09714633	2209.099	EVT	17.090	3.520	got the elevator - moving now to Easter Island
2002/09/20	13:37:04	47.94719317	-129.09886093	2148.805	EVT	273.180	30.000	changing tapes
2002/09/20	13:41:44	47.94710102	-129.09918188	2188.438	EVT	255.650	4.480	all tapes changed
2002/09/20	13:41:46	47.94710098	-129.09918191	2188.540	EVT	255.670	6.880	there'
2002/09/20	13:42:02	47.94712383	-129.09919417	2188.980	EVT	255.400	6.330	oops - there's the lang sampler - going to find a place
closeby to set the elevator down								
2002/09/20	13:48:34	47.94707929	-129.09925405	2190.478	EVT	306.990	4.940	blank-text
2002/09/20	13:48:35	47.94708015	-129.09925226	2190.498	EVT	306.680	5.040	blank-text

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20	13:48:49	47.94707998	-129.09925264	2190.410	EVT	306.810	4.960	framegrabs of the elevator site
2002/09/20	13:49:02	47.94707964	-129.09925343	2190.715	EVT	306.860	4.850	overview shots of Easter Island spot with MAV and elevator
2002/09/20	13:49:05	47.94707948	-129.09925345	2190.546	EVT	306.690	4.990	blank-text
2002/09/20	13:49:18	47.94707917	-129.09925341	2190.769	EVT	306.510	4.710	Lang sampler slightly to the left
2002/09/20	13:53:37	47.94709173	-129.09930436	2191.149	EVT	317.930	4.780	moving the elevator a bit
2002/09/20	14:02:14	47.94706388	-129.09929824	2192.002	EVT	320.160	4.190	elevator is placed - might be on Land sampler hose
2002/09/20	14:03:06	47.94706718	-129.09928847	2192.551	EVT	321.030	3.230	Lang sampler hose looks alright
2002/09/20	14:05:41	47.94779622	-129.09945030	2193.453	EVT	124.070	0.900	blank-text
2002/09/20	14:05:57	47.94778677	-129.09947401	2193.134	EVT	140.270	1.620	looks like we bumped the elevator there
2002/09/20	14:08:26	47.94778810	-129.09947084	2192.192	EVT	46.350	2.740	trying to get in to the barrel sampler
2002/09/20	14:08:38	47.94778382	-129.09947464	2192.185	EVT	39.660	2.770	Lang sampler is on the left and a little behind
2002/09/20	14:08:42	47.94778215	-129.09947929	2192.118	EVT	32.640	2.820	right there
2002/09/20	14:11:31	47.94779521	-129.09939503	2195.282	EVT	296.760	30.000	frame grabs of the barrel sampler spot
2002/09/20	14:11:34	47.94779522	-129.09939562	2195.126	EVT	296.760	30.000	blank-text
2002/09/20	14:12:23	47.94778829	-129.09939511	2195.140	EVT	296.720	30.000	that's the Lang sampler nozzle - we are talking about possible problems with recovery later on
2002/09/20	14:12:36	47.94778752	-129.09939370	2195.228	EVT	296.660	30.000	also with possible problems with adjusting the positioning of the barrel elevator
2002/09/20	14:12:40	47.94778774	-129.09939383	2195.160	EVT	296.660	30.000	blank-text
2002/09/20	14:12:42	47.94778775	-129.09939378	2195.255	EVT	296.660	30.000	blank-text
2002/09/20	14:12:59	47.94778855	-129.09939382	2195.323	EVT	296.650	30.000	Lang sampler funnel - good shimmering water around it
2002/09/20	14:14:56	47.94780430	-129.09935644	2192.382	EVT	274.180	0.770	blank-text
2002/09/20	14:15:09	47.94780780	-129.09935214	2191.440	EVT	248.650	4.120	another angle on the barrel sampler and MAV
2002/09/20	14:16:34	47.94785189	-129.09940732	2191.860	EVT	201.930	3.200	blank-text
2002/09/20	14:16:44	47.94785350	-129.09942189	2191.941	EVT	182.950	3.010	another angle
2002/09/20	14:16:48	47.94785405	-129.09942385	2191.969	EVT	164.610	2.660	blank-text
2002/09/20	14:17:09	47.94783898	-129.09945374	2192.260	EVT	151.490	1.290	blank-text
2002/09/20	14:17:19	47.94783071	-129.09946071	2191.894	EVT	139.990	1.820	blank-text
2002/09/20	14:17:53	47.94783414	-129.09946428	2194.320	EVT	118.250	0.760	setdown kinda hard there
2002/09/20	14:18:00	47.94783224	-129.09945982	2193.873	EVT	119.340	0.900	marker in the tubeworms right in front of us
2002/09/20	14:18:20	47.94783350	-129.09944134	2194.239	EVT	118.000	0.840	blank-text
2002/09/20	14:19:03	47.94783189	-129.09943577	2194.456	EVT	117.600	1.610	touchdown
2002/09/20	14:20:21	47.94786359	-129.09943036	2194.517	EVT	117.680	1.670	pulling out barrel sampler hose
2002/09/20	14:22:44	47.94790724	-129.09939368	2194.489	EVT	118.050	1.920	blank-text
2002/09/20	14:22:46	47.94790786	-129.09939340	2194.598	EVT	118.040	2.140	blank-text
2002/09/20	14:22:51	47.94790846	-129.09939343	2194.517	EVT	118.050	30.000	got hose
2002/09/20	14:23:24	47.94791060	-129.09939115	2194.584	EVT	118.060	1.740	blank-text
2002/09/20	14:23:37	47.94791081	-129.09939039	2194.442	EVT	118.070	30.000	blank-text
2002/09/20	14:23:59	47.94791193	-129.09938938	2194.557	EVT	118.090	30.000	looks like a kink in the hose

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20	14:25:10	47.94791582	-129.09938297	2194.577	EVT	118.110	1.930	looking for some shimmering water
2002/09/20	14:26:50	47.94793136	-129.09937202	2194.286	EVT	114.340	0.870	stopped at this spot - will zoom around to look for shimmering water
2002/09/20	14:27:14	47.94792895	-129.09937057	2194.456	EVT	114.340	0.870	zooming in to look at the water
2002/09/20	14:28:09	47.94792568	-129.09936872	2194.374	EVT	114.230	1.080	placing barrel sampler inlet probe
2002/09/20	14:29:02	47.94792530	-129.09936823	2194.374	EVT	114.020	1.100	blank-text
2002/09/20	14:29:12	47.94792505	-129.09936792	2194.367	EVT	114.090	1.100	probe placed in tubeworms
2002/09/20	14:29:21	47.94792472	-129.09936785	2194.279	EVT	114.080	1.100	clsoe shot of probe
2002/09/20	14:29:25	47.94792499	-129.09936809	2194.428	EVT	114.070	1.100	blank-text
2002/09/20	14:29:32	47.94792475	-129.09936869	2194.320	EVT	114.100	1.100	blank-text
2002/09/20	14:29:36	47.94792495	-129.09936913	2194.401	EVT	114.130	1.100	checking the hose
2002/09/20	14:30:02	47.94792506	-129.09936950	2194.428	EVT	114.130	1.090	blank-text
2002/09/20	14:30:21	47.94792110	-129.09937411	2193.683	EVT	115.800	1.360	going over to turn on the pumps on the barrel sampler
2002/09/20	14:31:32	47.94793989	-129.09939304	2194.422	EVT	116.690	0.900	taking a look at the hose
2002/09/20	14:31:37	47.94794225	-129.09939544	2194.422	EVT	116.790	0.960	looks crimped here
2002/09/20	14:32:01	47.94794405	-129.09940916	2194.435	EVT	117.090	0.960	trying to get the crimp out
2002/09/20	14:32:09	47.94793396	-129.09941450	2194.476	EVT	116.840	0.820	blank-text
2002/09/20	14:33:37	47.94789965	-129.09940894	2194.428	EVT	116.590	0.870	blank-text
2002/09/20	14:36:17	47.94784127	-129.09942328	2194.449	EVT	116.590	0.930	maybe this will work
2002/09/20	14:36:20	47.94783947	-129.09942642	2194.476	EVT	116.390	0.790	blank-text
2002/09/20	14:36:25	47.94784004	-129.09942922	2194.456	EVT	116.970	0.830	going to turn on barrel A
2002/09/20	14:37:25	47.94784252	-129.09942616	2194.476	EVT	116.610	0.810	there we go
2002/09/20	14:37:39	47.94783688	-129.09942709	2194.395	EVT	116.470	0.920	flow is up quite a bit - see flow coming out of top
2002/09/20	14:38:23	47.94785677	-129.09941105	2194.571	EVT	116.720	0.890	flow at about 1.0 and dropping
2002/09/20	14:38:34	47.94786323	-129.09940422	2194.476	EVT	116.640	0.960	flow was initially 1.2 and dropped right away
2002/09/20	14:39:24	47.94791394	-129.09936934	2194.422	EVT	116.650	0.910	looks like a crab messing around here
2002/09/20	14:40:26	47.94796339	-129.09933716	2194.483	EVT	116.690	0.900	blank-text
2002/09/20	14:40:33	47.94796835	-129.09933430	2194.449	EVT	116.600	0.900	cra b butt
2002/09/20	14:40:59	47.94795924	-129.09934074	2194.530	EVT	116.530	0.980	blank-text
2002/09/20	14:41:16	47.94796710	-129.09933165	2194.428	EVT	116.620	0.900	kick him off i heard
2002/09/20	14:41:29	47.94797372	-129.09932862	2194.530	EVT	116.580	0.910	he doesn't seem to like the fresh water so much
2002/09/20	14:42:28	47.94798638	-129.09930292	2194.550	EVT	116.720	0.950	kickin the crab off
2002/09/20	14:42:56	47.94798036	-129.09930233	2194.435	EVT	116.690	0.950	checking out the flow meter again
2002/09/20	14:43:15	47.94797840	-129.09929975	2194.503	EVT	116.750	0.950	looks like it is at about 0.6
2002/09/20	14:43:20	47.94797989	-129.09929914	2194.503	EVT	116.800	0.840	blank-text
2002/09/20	14:43:22	47.94798021	-129.09929872	2194.422	EVT	116.730	0.900	the kink
2002/09/20	14:43:28	47.94797780	-129.09929647	2194.401	EVT	116.750	0.940	looks partially open
2002/09/20	14:43:52	47.94797437	-129.09929384	2194.476	EVT	116.620	0.960	blank-text
2002/09/20	14:44:58	47.94797873	-129.09928455	2194.449	EVT	116.640	0.940	ship seems to be drifting a bit
2002/09/20	14:45:42	47.94798283	-129.09927467	2194.442	EVT	116.650	0.960	changing the watch - lots of people in the van now as we fill the barrel sampler

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20	14:46:03	47.94798189	-129.09927362	2194.476	EVT	116.650	0.960	looks like the crab is coming back for another look too
2002/09/20	14:53:33	47.94791822	-129.09924250	2194.489	EVT	116.800	0.910	lang sampler hose
2002/09/20	14:55:10	47.94792713	-129.09923039	2194.550	EVT	116.790	0.940	We cannot release either the Lang sampler or the elevator until the elevator is moved, otherwise the hose will get snagged.
2002/09/20	14:59:03	47.94787582	-129.09920622	2194.110	EVT	131.560	0.950	Sampler hose
2002/09/20	15:00:46	47.94787723	-129.09919809	2194.096	EVT	134.300	0.950	blank-text
2002/09/20	15:01:16	47.94787684	-129.09920050	2194.056	EVT	133.650	0.950	This site is being called marker 7.
2002/09/20	15:01:46	47.94787517	-129.09919495	2194.049	EVT	133.140	0.990	blank-text
2002/09/20	15:02:41	47.94786951	-129.09918688	2194.618	EVT	134.300	0.860	blank-text
2002/09/20	15:02:52	47.94788003	-129.09915803	2194.489	EVT	134.320	0.850	blank-text
2002/09/20	15:03:11	47.94789550	-129.09912239	2194.476	EVT	134.380	0.860	crab climbing on the flow meter
2002/09/20	15:04:10	47.94791624	-129.09906895	2194.489	EVT	134.260	0.700	blank-text
2002/09/20	15:04:29	47.94791324	-129.09907163	2194.401	EVT	133.880	0.750	blank-text
2002/09/20	15:04:56	47.94791445	-129.09906342	2194.367	EVT	134.230	0.700	crab has been knocked off flowmeter.
2002/09/20	15:13:41	47.94786494	-129.09904527	2194.672	EVT	129.920	0.970	About to take ICL temperature measurements here.
2002/09/20	15:15:25	47.94786461	-129.09908173	2194.611	EVT	130.070	0.830	background temperature is 2.2
2002/09/20	15:15:49	47.94786510	-129.09908529	2194.496	EVT	130.080	0.860	barrel sampler intake
2002/09/20	15:17:08	47.94786612	-129.09909632	2194.720	EVT	130.060	0.840	3.4 degrees
2002/09/20	15:18:02	47.94786754	-129.09910782	2194.645	EVT	130.060	0.830	icl moved to the other side of hose, 4.9 degrees
2002/09/20	15:18:17	47.94786778	-129.09910927	2194.645	EVT	130.060	0.830	5.2 degrees
2002/09/20	15:18:37	47.94786837	-129.09911473	2194.706	EVT	130.060	0.840	6.0 degrees
2002/09/20	15:19:23	47.94787052	-129.09911573	2194.496	EVT	133.280	0.860	moving icl towards palm worms
2002/09/20	15:19:42	47.94787477	-129.09911318	2194.821	EVT	133.830	1.980	blank-text
2002/09/20	15:20:09	47.94787455	-129.09911879	2194.652	EVT	133.830	1.990	8.6 degrees
2002/09/20	15:20:35	47.94787522	-129.09911950	2194.740	EVT	133.840	0.970	9.7 degrees
2002/09/20	15:21:22	47.94787503	-129.09912433	2194.774	EVT	133.770	1.010	11.5 degrees when put in deep
2002/09/20	15:23:01	47.94786918	-129.09913381	2194.747	EVT	133.760	1.700	area of highest temp reading
2002/09/20	15:25:20	47.94786617	-129.09915124	2194.699	EVT	133.680	1.230	Temperature on this first barrel was only about 4 degrees. We will probe around to find a better temperature before opening the second barrel.
2002/09/20	15:27:45	47.94786256	-129.09918591	2194.564	EVT	131.670	1.030	The maximum temperature using the ICL was 23 degrees, but down fairly deep.
2002/09/20	15:36:44	47.94791053	-129.09899949	2194.618	EVT	130.960	0.930	21 gallons calculated for the barrel sampler
2002/09/20	15:38:28	47.94792816	-129.09895010	2194.720	EVT	130.960	0.910	tape change was complete at 15:31
2002/09/20	15:39:12	47.94792820	-129.09893699	2194.666	EVT	130.920	0.920	blank-text
2002/09/20	15:39:20	47.94792957	-129.09893136	2194.645	EVT	130.950	0.920	blank-text
2002/09/20	15:40:16	47.94793107	-129.09891307	2194.666	EVT	130.880	0.920	close ups taken of mushroom/flange like structure at this site.
2002/09/20	15:47:00	47.94794675	-129.09889947	2194.727	EVT	131.020	0.920	stick on the flow meter is gone.
2002/09/20	15:53:06	47.94794054	-129.09893765	2194.706	EVT	131.000	0.920	we will shut down the exciting barrel one in 5 minutes.

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20	15:53:42	47.94793986	-129.09894271	2194.788	EVT	130.960	0.920	kink in hose
2002/09/20	15:54:24	47.94794025	-129.09894271	2194.774	EVT	130.970	0.920	That is a kink in the barrel sampler hose that might be slowing things up.
2002/09/20	15:55:15	47.94794167	-129.09894580	2194.760	EVT	130.960	0.920	3 minutes to go on barrel 1
2002/09/20	15:56:12	47.94794352	-129.09894789	2194.699	EVT	130.880	1.070	These barrels are expected to take 1 hour, but at this site, it has been 2 hours/barrel.
2002/09/20	15:56:50	47.94791920	-129.09887386	2194.740	EVT	130.930	1.040	attempting to straighten out kink in hose
2002/09/20	15:58:06	47.94791710	-129.09883225	2194.821	EVT	130.870	0.970	blank-text
2002/09/20	15:58:41	47.94792049	-129.09882178	2194.903	EVT	130.690	1.070	blank-text
2002/09/20	15:59:44	47.94788641	-129.09872121	2194.672	EVT	131.220	1.000	There were two kinks in hose. We will try to rotate the loop to get rid of kinks.
2002/09/20	16:00:59	47.94788083	-129.09866458	2194.815	EVT	130.770	1.010	blank-text
2002/09/20	16:02:27	47.94788615	-129.09864806	2194.788	EVT	132.440	1.070	Turning off barrel sampler
2002/09/20	16:02:58	47.94788692	-129.09864565	2194.910	EVT	130.800	1.060	Sample appeared to be complete.
2002/09/20	16:06:41	47.94787082	-129.09861240	2194.977	EVT	130.450	0.830	grabbing t handle of sampler hose.
2002/09/20	16:07:23	47.94787354	-129.09861310	2194.937	EVT	130.450	0.840	blank-text
2002/09/20	16:08:41	47.94787727	-129.09861299	2194.937	EVT	130.370	0.850	blank-text
2002/09/20	16:09:53	47.94787914	-129.09861404	2194.964	EVT	129.540	0.860	blank-text
2002/09/20	16:09:54	47.94787918	-129.09861390	2194.896	EVT	129.530	0.840	blank-text
2002/09/20	16:10:34	47.94788878	-129.09864880	2194.998	EVT	129.000	0.870	A
2002/09/20	16:11:07	47.94789009	-129.09864507	2194.984	EVT	129.260	0.880	Another attempt to work out the kinks in sampling hose.
2002/09/20	16:12:01	47.94789225	-129.09864245	2194.964	EVT	128.990	0.860	blank-text
2002/09/20	16:12:02	47.94789225	-129.09864245	2194.964	EVT	128.990	0.860	blank-text
2002/09/20	16:17:28	47.94786569	-129.09864385	2195.045	EVT	129.220	0.860	blank-text
2002/09/20	16:18:26	47.94786641	-129.09864549	2195.045	EVT	128.800	0.860	Looks like the kink removal is about as good as it is going to get.
2002/09/20	16:31:09	47.94774276	-129.09844250	2195.275	EVT	126.880	1.050	Intake of the barrel sampler is being redeployed into a warmer temperature area.
2002/09/20	16:37:12	47.94772584	-129.09839774	2195.391	EVT	153.600	0.830	moving probe to the spot of maximum temperature.
2002/09/20	16:38:33	47.94772884	-129.09840646	2195.093	EVT	143.620	0.830	blank-text
2002/09/20	16:38:35	47.94772857	-129.09840717	2195.106	EVT	143.650	0.840	blank-text
2002/09/20	16:39:33	47.94772104	-129.09842569	2195.126	EVT	143.950	0.840	Position of intake is acceptable to Matt McCarthy, as shown in previous frame grab.
2002/09/20	16:41:02	47.94771428	-129.09843596	2195.309	EVT	143.590	0.810	opening barrel B
2002/09/20	16:41:29	47.94771072	-129.09843170	2195.296	EVT	143.790	0.770	blank-text
2002/09/20	16:41:45	47.94770993	-129.09842737	2195.303	EVT	143.480	0.790	turning on pump
2002/09/20	16:42:35	47.94771284	-129.09842287	2195.384	EVT	143.490	0.790	No longer any kinks in line.
2002/09/20	16:46:22	47.94766815	-129.09844867	2195.208	EVT	134.580	0.730	When pump first started, flow was about 1.5 gal/min, now about 0.7.
2002/09/20	16:51:35	47.94754887	-129.09844755	2195.086	EVT	135.390	1.130	blank-text

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20	16:51:41	47.94754954	-129.09844801	2194.903	EVT	134.880	1.210	blank-text
2002/09/20	16:51:48	47.94754998	-129.09844832	2195.167	EVT	134.480	0.940	blank-text
2002/09/20	16:52:54	47.94753959	-129.09846518	2195.045	EVT	134.150	0.780	blank-text
2002/09/20	16:53:02	47.94753991	-129.09846614	2195.140	EVT	134.670	0.670	previous frame grabs were of the area of the intake
		for the barrel sampler						
2002/09/20	16:53:34	47.94753975	-129.09846560	2195.309	EVT	134.730	1.860	blank-text
2002/09/20	16:54:31	47.94755228	-129.09844733	2195.336	EVT	133.860	0.780	blank-text
2002/09/20	16:56:12	47.94745354	-129.09860801	2194.774	EVT	134.760	1.370	longer shot of sampling area
2002/09/20	16:57:31	47.94743896	-129.09868194	2195.458	EVT	122.640	0.670	flow at about .4 gal/min
2002/09/20	16:58:51	47.94746285	-129.09870178	2194.910	EVT	125.430	1.080	Moving over to grab pipe MAV.
2002/09/20	16:59:44	47.94745034	-129.09863880	2194.733	EVT	259.200	1.840	blank-text
2002/09/20	17:01:14	47.94740599	-129.09862163	2192.423	EVT	274.540	1.290	Deployment site is to be where the crab to the right of
		the MAV is now.						
2002/09/20	17:03:06	47.94787330	-129.09945144	2195.153	EVT	292.310	1.410	blank-text
2002/09/20	17:03:15	47.94787229	-129.09945255	2195.133	EVT	292.520	1.450	blank-text
2002/09/20	17:03:26	47.94787246	-129.09945190	2195.086	EVT	292.850	1.510	blank-text
2002/09/20	17:04:01	47.94787266	-129.09945243	2195.106	EVT	292.650	1.570	Lang sampler exhaust port
2002/09/20	17:04:10	47.94787257	-129.09945239	2195.099	EVT	292.610	1.500	blank-text
2002/09/20	17:04:32	47.94787604	-129.09945636	2195.967	EVT	292.740	1.100	blank-text
2002/09/20	17:04:58	47.94787585	-129.09945514	2196.034	EVT	292.350	0.930	Lang sampler port again
2002/09/20	17:05:19	47.94787475	-129.09945295	2196.021	EVT	292.650	0.890	blank-text
2002/09/20	17:05:23	47.94787499	-129.09945060	2196.041	EVT	292.620	0.910	blank-text
2002/09/20	17:05:25	47.94787541	-129.09944860	2195.994	EVT	292.580	0.910	blank-text
2002/09/20	17:05:29	47.94787557	-129.09944794	2195.973	EVT	292.610	0.900	blank-text
2002/09/20	17:05:53	47.94787607	-129.09944414	2195.953	EVT	292.490	1.070	palm worm right at port.
2002/09/20	17:08:02	47.94787311	-129.09943674	2196.001	EVT	294.300	0.840	crab now in basket on barrel sampler
2002/09/20	17:08:50	47.94787124	-129.09943206	2196.068	EVT	292.840	0.790	again, barrel sampler elevator almost on lang sampler
		intake						
2002/09/20	17:10:15	47.94786969	-129.09943493	2196.272	EVT	293.820	0.810	pipe mav removed from elevator
2002/09/20	17:11:31	47.94787528	-129.09941509	2194.977	EVT	293.290	1.820	blank-text
2002/09/20	17:11:35	47.94788532	-129.09940887	2194.727	EVT	290.570	2.150	blank-text
2002/09/20	17:11:39	47.94789373	-129.09940347	2194.679	EVT	283.400	1.970	blank-text
2002/09/20	17:11:48	47.94790502	-129.09940980	2194.564	EVT	264.680	2.330	blank-text
2002/09/20	17:12:17	47.94790920	-129.09947038	2194.476	EVT	123.770	1.610	frame grabs enroute to deployment site
2002/09/20	17:12:20	47.94790763	-129.09947622	2194.903	EVT	113.680	1.520	blank-text
2002/09/20	17:12:39	47.94789823	-129.09948268	2195.214	EVT	130.460	1.360	blank-text
2002/09/20	17:13:16	47.94789150	-129.09948982	2195.452	EVT	133.220	0.860	blank-text
2002/09/20	17:13:17	47.94789149	-129.09949007	2195.486	EVT	133.340	0.850	blank-text
2002/09/20	17:13:38	47.94788415	-129.09949298	2195.560	EVT	133.410	0.860	flow is down to .3 gal/min
2002/09/20	17:14:56	47.94792538	-129.09945219	2194.876	EVT	152.610	1.620	coming in on deployment site, MAV
2002/09/20	17:15:49	47.94791856	-129.09945188	2195.255	EVT	153.190	1.220	landed, will deploy on top or near crab

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20	17:15:54	47.94791926	-129.09945149	2195.303	EVT	152.840	1.220	blank-text
2002/09/20	17:16:02	47.94791913	-129.09945166	2195.282	EVT	152.300	1.210	blank-text
2002/09/20	17:16:08	47.94791841	-129.09945121	2195.343	EVT	151.480	1.200	blank-text
2002/09/20	17:16:13	47.94791894	-129.09945052	2195.174	EVT	150.390	1.170	blank-text
2002/09/20	17:16:17	47.94791935	-129.09945006	2195.248	EVT	151.280	1.140	blank-text
2002/09/20	17:16:28	47.94792073	-129.09944953	2195.316	EVT	150.250	1.180	blank-text
2002/09/20	17:16:41	47.94792085	-129.09944950	2195.397	EVT	149.710	1.170	blank-text
2002/09/20	17:18:36	47.94791845	-129.09944499	2195.289	EVT	171.860	1.080	We
2002/09/20	17:19:16	47.94791799	-129.09944836	2195.486	EVT	150.200	1.180	blank-text
2002/09/20	17:20:24	47.94791955	-129.09944918	2195.621	EVT	148.720	0.980	inner tube and intake just set down
2002/09/20	17:21:48	47.94793571	-129.09943638	2195.689	EVT	151.850	0.870	blank-text
2002/09/20	17:22:58	47.94793755	-129.09942146	2195.303	EVT	156.950	1.020	moving MAV intake
2002/09/20	17:23:31	47.94793715	-129.09941837	2195.641	EVT	158.020	0.800	blank-text
2002/09/20	17:23:40	47.94793705	-129.09941788	2195.709	EVT	158.220	0.960	blank-text
2002/09/20	17:24:33	47.94793575	-129.09943416	2195.723	EVT	158.230	0.980	outflow of MAV, shimmering wate
2002/09/20	17:25:39	47.94790799	-129.09948296	2194.869	EVT	124.270	1.190	After flow measurement, we will take another look at the MAV for outflow.
2002/09/20	17:27:04	47.94794557	-129.09948986	2195.228	EVT	138.450	0.840	about .25 gal/min on barrel b
2002/09/20	17:27:45	47.94797556	-129.09945090	2195.472	EVT	144.300	0.800	blank-text
2002/09/20	17:28:17	47.94796856	-129.09944692	2196.034	EVT	154.770	0.880	blank-text
2002/09/20	17:29:23	47.94796861	-129.09944057	2195.723	EVT	161.900	0.830	going in to take a look at the outflow of MAV sampler
2002/09/20	17:29:36	47.94796925	-129.09944051	2195.750	EVT	161.910	0.810	blank-text
2002/09/20	17:29:36	47.94796925	-129.09944051	2195.750	EVT	161.910	0.810	blank-text
2002/09/20	17:29:38	47.94796909	-129.09944076	2195.872	EVT	161.860	0.810	blank-text
2002/09/20	17:29:42	47.94796895	-129.09944086	2195.790	EVT	161.990	0.810	blank-text
2002/09/20	17:29:50	47.94796864	-129.09944120	2195.797	EVT	161.960	0.810	blank-text
2002/09/20	17:29:51	47.94796866	-129.09944117	2195.797	EVT	161.950	0.800	blank-text
2002/09/20	17:30:12	47.94796993	-129.09944032	2195.628	EVT	161.980	0.810	We do have outflow from the mav
2002/09/20	17:30:15	47.94797006	-129.09943995	2195.818	EVT	162.000	0.810	blank-text
2002/09/20	17:30:26	47.94796867	-129.09944100	2195.709	EVT	162.010	0.810	blank-text
2002/09/20	17:30:32	47.94796814	-129.09944093	2195.743	EVT	162.030	0.810	good seal on the inner-tube
2002/09/20	17:32:11	47.94797367	-129.09941746	2194.029	EVT	240.790	2.500	blank-text
2002/09/20	17:32:31	47.94794671	-129.09940354	2194.293	EVT	277.190	2.530	blank-text
2002/09/20	17:32:46	47.94794136	-129.09939960	2194.598	EVT	269.300	2.420	tape change in progress
2002/09/20	17:33:02	47.94794214	-129.09939718	2194.645	EVT	263.610	2.440	blank-text
2002/09/20	17:34:32	47.94793976	-129.09940047	2195.953	EVT	251.780	1.150	blank-text
2002/09/20	17:35:04	47.94793918	-129.09940322	2196.231	EVT	251.670	1.000	on other side of marker from barrel sampler
2002/09/20	17:36:14	47.94793805	-129.09939615	2196.095	EVT	251.790	1.010	Mav 65 was bumped
2002/09/20	17:37:00	47.94793734	-129.09939281	2196.034	EVT	251.550	1.020	marker 34 deployed
2002/09/20	17:37:28	47.94793682	-129.09939032	2196.034	EVT	251.760	0.980	marker 34 is HOBO 34

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20	17:39:54	47.94793769	-129.09938989	2196.082	EVT	251.720	0.940	HOBO 35 IS DEPLOYED
2002/09/20	17:40:08	47.94793734	-129.09938925	2196.095	EVT	251.680	1.010	blank-text
2002/09/20	17:40:25	47.94793729	-129.09938853	2196.163	EVT	251.660	1.040	back to the flow meter
2002/09/20	17:41:20	47.94795088	-129.09937721	2195.221	EVT	229.850	1.540	blank-text
2002/09/20	17:41:21	47.94795477	-129.09937902	2195.350	EVT	222.380	1.690	blank-text
2002/09/20	17:41:36	47.94796736	-129.09940136	2195.269	EVT	177.590	1.440	picture of hobos and column
2002/09/20	17:41:45	47.94796350	-129.09942131	2194.984	EVT	155.620	1.630	blank-text
2002/09/20	17:41:57	47.94795068	-129.09944161	2195.045	EVT	123.540	1.200	blank-text
2002/09/20	17:42:01	47.94794642	-129.09944615	2195.133	EVT	117.430	1.410	blank-text
2002/09/20	17:42:07	47.94794097	-129.09945132	2194.977	EVT	115.290	1.430	blank-text
2002/09/20	17:42:58	47.94793596	-129.09945681	2195.831	EVT	124.780	30.000	the previous frame grabs show mavs, hobos and barrel sampler
2002/09/20	17:43:17	47.94793787	-129.09944754	2195.831	EVT	125.200	2.280	blank-text
2002/09/20	17:51:54	47.94800903	-129.09933895	2195.790	EVT	125.600	1.840	pump off Barrel sampler B
2002/09/20	17:54:25	47.94797812	-129.09934837	2195.926	EVT	111.530	0.900	next hobo to be deployed where barrel sampler probe is.
2002/09/20	17:54:27	47.94797811	-129.09934879	2195.980	EVT	111.600	0.890	blank-text
2002/09/20	17:54:58	47.94798147	-129.09935490	2195.946	EVT	111.550	0.910	Barrel sampler probe is being removed here.
2002/09/20	17:56:46	47.94800549	-129.09935273	2195.973	EVT	111.740	0.840	Barrel sampler probe stowed on elevator.
2002/09/20	17:57:56	47.94800444	-129.09935895	2196.062	EVT	111.260	0.830	HOBO deployed.
2002/09/20	17:58:23	47.94800404	-129.09936149	2195.967	EVT	111.240	0.830	Hobo deployed is no. 33.
2002/09/20	17:59:05	47.94801108	-129.09937487	2195.479	EVT	115.510	1.030	We now have 3 hobos, 2 mav and elevator at marker 7
2002/09/20	17:59:10	47.94801090	-129.09937526	2195.282	EVT	113.970	1.310	blank-text
2002/09/20	17:59:20	47.94801845	-129.09937098	2194.910	EVT	122.740	1.200	blank-text
2002/09/20	17:59:24	47.94802266	-129.09936774	2194.957	EVT	141.040	1.700	blank-text
2002/09/20	17:59:28	47.94802490	-129.09936539	2195.065	EVT	143.140	1.050	blank-text
2002/09/20	17:59:30	47.94802511	-129.09936489	2195.052	EVT	142.570	1.000	blank-text
2002/09/20	17:59:48	47.94802328	-129.09936583	2195.160	EVT	142.850	0.900	blank-text
2002/09/20	18:00:01	47.94802310	-129.09936575	2194.957	EVT	142.620	0.980	blank-text
2002/09/20	18:00:06	47.94802318	-129.09936610	2195.106	EVT	142.950	0.880	blank-text
2002/09/20	18:00:07	47.94802315	-129.09936609	2195.099	EVT	142.750	0.850	blank-text
2002/09/20	18:00:18	47.94802427	-129.09936803	2194.808	EVT	151.780	1.150	blank-text
2002/09/20	18:00:33	47.94802469	-129.09936650	2194.815	EVT	151.650	1.070	Lang sampler
2002/09/20	18:00:40	47.94802439	-129.09936716	2194.828	EVT	151.590	1.090	blank-text
2002/09/20	18:00:46	47.94802435	-129.09936739	2194.666	EVT	151.670	1.120	blank-text
2002/09/20	18:00:50	47.94802465	-129.09936703	2194.862	EVT	151.320	1.060	blank-text
2002/09/20	18:00:54	47.94802432	-129.09936676	2194.950	EVT	151.710	1.070	blank-text
2002/09/20	18:00:58	47.94802463	-129.09936704	2194.849	EVT	151.850	1.100	blank-text
2002/09/20	18:01:01	47.94802478	-129.09936706	2194.801	EVT	151.830	1.140	blank-text
2002/09/20	18:01:05	47.94802462	-129.09936635	2194.889	EVT	151.800	1.130	blank-text

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20	18:02:21	47.94802437	-129.09936743	2195.018	EVT	152.020	1.130	7 frame grabs panning across marker 7 site from
		Lang to MaVS tape at one hour 30 on the video tape.						
2002/09/20	18:02:58	47.94802481	-129.09936673	2194.889	EVT	151.770	1.450	This was also covered by DVD recording.
2002/09/20	18:03:45	47.94800456	-129.09937620	2193.426	EVT	151.750	1.980	blank-text
2002/09/20	18:05:09	47.94799607	-129.09934351	2192.545	EVT	226.480	4.280	blank-text
2002/09/20	18:10:38	47.94793620	-129.09936816	2184.406	EVT	285.120	12.060	about to pick up elevator and will lateral left to free
		Lang sampler hose.						
2002/09/20	18:20:46	47.94829485	-129.09937724	2192.429	EVT	50.710	3.400	transiting with elevator to a more suitable release
		point. It might have to be released manually and there needs to be room to work around it.						
2002/09/20	18:24:32	47.94834677	-129.09934127	2193.215	EVT	211.440	4.660	set the elevator down
2002/09/20	18:26:08	47.94832621	-129.09934509	2195.912	EVT	204.920	1.870	preparing to release the elevator
2002/09/20	18:36:00	47.94823781	-129.09936390	2192.721	EVT	10.720	3.090	trying to get medea, ship, and jason in proper
		positions for launch						
2002/09/20	18:40:04	47.94827418	-129.09935657	2195.479	EVT	4.200	1.450	pulling release line
2002/09/20	18:40:19	47.94827093	-129.09935666	2195.391	EVT	3.510	1.250	pulled
2002/09/20	18:40:34	47.94826496	-129.09935783	2195.242	EVT	3.400	1.320	lift off
2002/09/20	18:40:36	47.94826423	-129.09935798	2195.316	EVT	2.450	1.280	blank-text
2002/09/20	18:40:37	47.94826423	-129.09935808	2195.411	EVT	2.940	1.300	blank-text
2002/09/20	18:40:39	47.94826424	-129.09935796	2195.364	EVT	3.330	1.270	blank-text
2002/09/20	18:40:55	47.94826415	-129.09935794	2195.438	EVT	4.180	1.340	elevator is on its way up
2002/09/20	19:40:03	47.94786555	-129.09945101	2162.191	EVT	227.990	30.000	the elevator has been spotted on the surface
2002/09/20	19:49:49	47.94815231	-129.09882925	2165.329	EVT	227.480	28.540	elevator sighted
2002/09/20	19:54:04	47.94833145	-129.09819952	2163.743	EVT	227.950	30.000	elevator recovered and is on deck
2002/09/20	19:55:22	47.94828130	-129.09799636	2163.661	EVT	227.720	30.000	now we are going to pick up the thermal blanket
2002/09/20	20:01:32	47.94817355	-129.09711979	2208.143	EVT	118.040	7.850	Jason nearly hit bottom
2002/09/20	20:01:49	47.94817909	-129.09715089	2202.763	EVT	117.040	12.770	too far out of Medea's view
2002/09/20	20:17:07	47.94730392	-129.09448017	2219.926	EVT	194.610	7.360	the thermal blanket is in view
2002/09/20	20:19:16	47.94724773	-129.09452437	2223.829	EVT	194.480	2.570	thermal blanket
2002/09/20	20:19:46	47.94723259	-129.09453394	2225.523	EVT	194.470	1.030	thermal blanket
2002/09/20	20:20:13	47.94723378	-129.09453547	2225.428	EVT	194.580	1.070	Jason picking up the thermal blanket
2002/09/20	20:21:09	47.94723570	-129.09453494	2225.597	EVT	194.400	0.940	the left arm will pick up the thermal blanket and pass
		it to the right arm						
2002/09/20	20:21:28	47.94723643	-129.09453511	2225.476	EVT	194.030	0.970	thermal blanket being passed
2002/09/20	20:21:42	47.94723654	-129.09453524	2225.591	EVT	194.220	0.950	thermal blanket picked up
2002/09/20	20:22:07	47.94723637	-129.09453504	2225.476	EVT	194.230	1.040	thermal blanket two manipulator operation
2002/09/20	20:22:11	47.94723635	-129.09453489	2225.503	EVT	194.130	1.010	thermal blanket
2002/09/20	20:22:17	47.94723630	-129.09453497	2225.557	EVT	194.190	1.010	thermal blanket
2002/09/20	20:22:30	47.94723649	-129.09453472	2225.543	EVT	193.990	1.020	thermal blanket switching hands
2002/09/20	20:22:44	47.94723689	-129.09453426	2225.476	EVT	194.130	0.970	thermal blanket grabbed
2002/09/20	20:37:28	47.94745420	-129.09509953	2210.793	EVT	303.830	10.970	large wall
2002/09/20	20:37:37	47.94745249	-129.09509837	2210.508	EVT	302.480	11.450	large wall

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20	20:37:50	47.94745561	-129.09510221	2207.242	EVT	301.910	15.050	at the top of the large wall
2002/09/20	20:47:50	47.94790143	-129.09599893	2204.728	EVT	283.770	18.840	at event 8509 we lost a double major
2002/09/20	20:48:49	47.94796525	-129.09612713	2204.911	EVT	283.070	15.190	8509 was at 20:01:32 on 2002/09/20
2002/09/20	20:49:26	47.94799022	-129.09626008	2198.765	EVT	280.760	15.730	we will recover the double major and then deploy the thermal blanket
2002/09/20	20:56:50	47.94813824	-129.09676392	2199.287	EVT	270.340	15.090	Dropping 10 meters
2002/09/20	20:58:30	47.94814015	-129.09696685	2212.704	EVT	269.320	2.540	We have spotted the double major we dropped
2002/09/20	20:58:45	47.94814256	-129.09700583	2212.073	EVT	270.050	2.780	There it is!
2002/09/20	20:59:14	47.94814567	-129.09702666	2214.289	EVT	268.700	2.410	Double major we dropped on seafloor
2002/09/20	21:00:58	47.94814503	-129.09702539	2214.215	EVT	268.160	0.740	Picking up the double major
2002/09/20	21:01:24	47.94814526	-129.09702443	2214.174	EVT	268.560	0.780	Looks like it did not fire
2002/09/20	21:02:52	47.94814392	-129.09702364	2214.099	EVT	268.480	0.780	Double major is in the basket
2002/09/20	21:05:31	47.94814420	-129.09702073	2214.079	EVT	268.850	0.860	Passing the thermal blanket to the starboard arm
2002/09/20	21:06:05	47.94814340	-129.09702213	2214.004	EVT	269.040	0.920	Coming up 20 meters
2002/09/20	21:06:25	47.94814662	-129.09702435	2210.122	EVT	268.860	4.720	The double major just fell out again
2002/09/20	21:08:12	47.94814490	-129.09702572	2210.386	EVT	269.200	4.460	Passing the thermal blanket to the port arm
2002/09/20	21:10:42	47.94814110	-129.09702222	2213.659	EVT	269.460	1.430	We can see the double major again on the seafloor
2002/09/20	21:12:13	47.94813949	-129.09701736	2214.181	EVT	267.850	0.880	Putting double major in basket again
2002/09/20	21:15:23	47.94813672	-129.09701860	2214.154	EVT	267.160	0.810	Thermal blanket is back in the starboard arm
2002/09/20	21:16:10	47.94814050	-129.09702433	2213.462	EVT	269.350	1.530	Coming up 20 meters
2002/09/20	21:20:16	47.94816765	-129.09689962	2171.720	EVT	256.600	30.000	Going to thermal blanket deployment site E
2002/09/20	21:52:28	47.94775001	-129.10038978	2160.659	EVT	318.980	7.710	Bottom in view
2002/09/20	21:52:36	47.94774588	-129.10040210	2160.544	EVT	319.380	7.170	A Wall
2002/09/20	21:52:51	47.94773252	-129.10041874	2160.618	EVT	254.680	6.840	Iron staining on wall
2002/09/20	21:57:05	47.94773759	-129.10038447	2159.819	EVT	306.320	9.140	Looking for a place to deploy the thermal blanket
2002/09/20	21:58:49	47.94763961	-129.10047220	2160.097	EVT	288.470	7.000	More iron staining on wall
2002/09/20	22:00:21	47.94753039	-129.10058715	2145.599	EVT	285.770	20.390	Cool wall
2002/09/20	22:00:40	47.94752940	-129.10058411	2138.123	EVT	283.660	27.260	This is a big wall
2002/09/20	22:01:52	47.94762681	-129.10058878	2137.086	EVT	285.220	7.780	Found a sort of flat part
2002/09/20	22:02:05	47.94762912	-129.10059358	2137.818	EVT	284.350	6.710	Maybe not, still going up
2002/09/20	22:04:47	47.94768284	-129.10071413	2126.329	EVT	285.610	2.360	Going to the bottom
2002/09/20	22:09:44	47.94768109	-129.10071276	2123.509	EVT	153.240	8.160	That was wrong, still looking for a deployment site
2002/09/20	22:11:53	47.94766029	-129.10072248	2128.254	EVT	263.850	0.740	Stirring up a cloud
2002/09/20	22:16:48	47.94766675	-129.10087609	2125.447	EVT	283.540	9.410	still looking for a good spot for thermal blanket
2002/09/20	22:17:41	47.94767084	-129.10089236	2134.103	EVT	282.790	1.390	We've spotted a flat spot
2002/09/20	22:18:58	47.94767591	-129.10090417	2135.107	EVT	280.940	0.800	Deploying thermal blanket
2002/09/20	22:19:20	47.94767606	-129.10090614	2135.174	EVT	281.440	0.780	Thermal blanket deployment
2002/09/20	22:19:35	47.94767565	-129.10090552	2135.093	EVT	281.120	0.780	Thermal deployment
2002/09/20	22:20:26	47.94767517	-129.10090576	2135.107	EVT	280.320	0.750	Thermal blanket, Navigation Marker 21
2002/09/20	22:20:48	47.94766824	-129.10090844	2134.076	EVT	282.540	2.150	Going to the instrument elevator
2002/09/20	22:50:20	47.94860721	-129.09924011	2120.879	EVT	68.360	30.000	transit to the instrument elevator

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/20 22:58:11		47.94899426	-129.09844888	2121.197	EVT	65.460	30.000	blank-text
2002/09/20 22:58:39		47.94900982	-129.09839953	2121.333	EVT	65.330	30.000	< big ctenophore in front of ICL
2002/09/20 23:08:36		47.94935207	-129.09771185	2201.483	EVT	47.010	9.460	there's the elevator
2002/09/20 23:12:20		47.94942120	-129.09758654	2208.333	EVT	135.510	3.510	instrument elevator
2002/09/20 23:13:14		47.94941952	-129.09758374	2208.137	EVT	135.480	3.590	reaching out for the elevator
2002/09/20 23:17:57		47.94934953	-129.09759602	2179.967	EVT	180.650	30.000	moving instrument elevator
2002/09/20 23:29:46		47.94855718	-129.09759954	2178.876	EVT	181.820	30.000	we are now headed to ADCP site (nav target 2)
2002/09/20 23:44:58		47.94721808	-129.09786142	2206.693	EVT	135.250	8.130	MAV sighted
2002/09/20 23:46:10		47.94716230	-129.09776812	2210.014	EVT	133.470	4.430	dropping instrument elevator
2002/09/20 23:47:42		47.94719058	-129.09778795	2209.200	EVT	92.200	5.920	elevator sinking nearing ADCP and MAV at target 2
2002/09/20 23:50:01		47.94722017	-129.09772955	2212.012	EVT	136.970	2.420	instruments and wood at target 2
2002/09/20 23:51:16		47.94721770	-129.09772962	2212.175	EVT	140.110	2.430	grabbing MAV
2002/09/20 23:51:42		47.94721801	-129.09772972	2212.175	EVT	139.920	2.320	that's MAV 57
2002/09/20 23:54:04		47.94718274	-129.09772840	2211.565	EVT	199.060	2.670	fish
2002/09/20 23:54:51		47.94717720	-129.09773128	2211.843	EVT	199.660	2.310	Paul is discussing the possible settlement rate on
Christian's corpse when it hits the ocean floor								
2002/09/20 23:55:06		47.94717712	-129.09773169	2211.497	EVT	199.110	2.590	placing MAV in the instrument elevator
2002/09/20 23:57:43		47.94717475	-129.09773293	2211.694	EVT	198.980	2.400	MAV is secure in elevator receptacle
2002/09/20 23:59:18		47.94716108	-129.09771977	2210.671	EVT	67.730	1.460	Marker 43
2002/09/21 00:01:22		47.94721715	-129.09768491	2213.700	EVT	148.470	0.710	going for ADCP
2002/09/21 00:01:46		47.94721776	-129.09765203	2213.679	EVT	148.280	0.730	elasipods swimming
2002/09/21 00:01:48		47.94721887	-129.09765456	2213.727	EVT	148.380	0.750	blank-text
2002/09/21 00:01:50		47.94721972	-129.09764885	2213.747	EVT	148.520	0.690	blank-text
2002/09/21 00:01:52		47.94721937	-129.09764261	2213.659	EVT	148.570	0.680	blank-text
2002/09/21 00:01:54		47.94721985	-129.09763584	2213.666	EVT	148.530	0.680	blank-text
2002/09/21 00:01:56		47.94722010	-129.09763498	2213.639	EVT	148.430	0.710	blank-text
2002/09/21 00:01:58		47.94722028	-129.09763289	2213.767	EVT	148.440	0.700	blank-text
2002/09/21 00:02:01		47.94722060	-129.09763543	2213.659	EVT	148.440	0.700	blank-text
2002/09/21 00:02:03		47.94722054	-129.09763663	2213.706	EVT	148.430	0.710	blank-text
2002/09/21 00:02:05		47.94722109	-129.09763694	2213.706	EVT	148.440	0.700	blank-text
2002/09/21 00:02:06		47.94722180	-129.09763787	2213.774	EVT	148.440	0.700	blank-text
2002/09/21 00:02:11		47.94722497	-129.09764612	2213.727	EVT	148.530	0.690	elasipod gone
2002/09/21 00:03:35		47.94724885	-129.09761261	2213.557	EVT	148.150	0.660	lifting ADCP
2002/09/21 00:04:19		47.94727926	-129.09763021	2212.825	EVT	149.420	1.520	pulling on ADCP
2002/09/21 00:05:03		47.94727831	-129.09761618	2212.920	EVT	350.460	0.940	wood on bottom
2002/09/21 00:06:24		47.94728714	-129.09763149	2211.464	EVT	246.220	2.870	tossed up sediment
2002/09/21 00:08:00		47.94719776	-129.09761945	2210.711	EVT	297.380	3.350	pulling up to elevator with ADCP
2002/09/21 00:09:05		47.94720508	-129.09763848	2213.103	EVT	303.690	0.970	placing ADCP on instrument elevator
2002/09/21 00:09:17		47.94720454	-129.09763794	2213.157	EVT	303.990	1.000	blank-text
2002/09/21 00:09:38		47.94720399	-129.09763669	2213.130	EVT	304.280	0.940	blank-text
2002/09/21 00:09:49		47.94720379	-129.09763673	2213.002	EVT	304.750	0.980	ADCP on the elevator

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/21	00:12:27	47.94720619	-129.09764378	2213.307	EVT	304.050	0.700	securing the ADCP with bungees
2002/09/21	00:14:44	47.94720320	-129.09764123	2213.212	EVT	304.410	0.750	securing ADCP polypro
2002/09/21	00:15:35	47.94720068	-129.09764021	2213.090	EVT	305.250	0.750	polypro snapped in
2002/09/21	00:18:07	47.94720258	-129.09764078	2213.144	EVT	306.850	30.000	securing lower bungee on ADCP
2002/09/21	00:18:21	47.94720270	-129.09764057	2213.205	EVT	305.730	0.730	ADCP is secure
2002/09/21	00:18:23	47.94720264	-129.09764067	2213.218	EVT	305.330	0.710	blank-text
2002/09/21	00:18:37	47.94720272	-129.09764063	2213.239	EVT	305.530	0.710	ADCP strapped in on instrument elevator
2002/09/21	00:20:51	47.94722193	-129.09763015	2212.717	EVT	238.250	1.170	lifting Alvin weights
2002/09/21	00:21:09	47.94722269	-129.09763192	2212.622	EVT	239.050	1.230	struggling with weights
2002/09/21	00:21:18	47.94722261	-129.09763152	2212.731	EVT	239.740	1.100	weights lifted out
2002/09/21	00:21:29	47.94722241	-129.09763110	2212.697	EVT	239.130	1.160	blank-text
2002/09/21	00:21:38	47.94722330	-129.09762951	2212.737	EVT	238.990	1.180	weights dropped
2002/09/21	00:22:22	47.94722509	-129.09763307	2212.588	EVT	238.820	1.280	unused major on the elevator, probably don't need it
on Jason								
2002/09/21	00:25:46	47.94723097	-129.09767037	2213.273	EVT	140.890	1.030	taking sampler
2002/09/21	00:26:08	47.94723145	-129.09767094	2213.307	EVT	140.920	1.000	sampler placed back in basket
2002/09/21	00:27:55	47.94726185	-129.09766495	2200.127	EVT	140.680	9.970	moving up
2002/09/21	00:32:58	47.94612861	-129.09732016	2165.634	EVT	305.630	30.000	coming up to 2165m for the transit to Lang sampler
2002/09/21	01:15:08	47.94773801	-129.09942971	2182.298	EVT	259.480	10.580	elevator in sight
2002/09/21	01:15:27	47.94773692	-129.09943776	2187.869	EVT	258.890	8.230	Lang sampler
2002/09/21	01:17:14	47.94772947	-129.09945242	2195.004	EVT	321.710	1.440	MAVS
2002/09/21	01:17:24	47.94773301	-129.09945380	2196.143	EVT	322.590	30.000	Lang sampler intake in view
2002/09/21	01:18:39	47.94772125	-129.09945214	2195.723	EVT	322.230	0.870	picking up the Lang sampler funnel
2002/09/21	01:19:55	47.94771409	-129.09946966	2193.974	EVT	311.600	2.000	taking the Lang sampler funnel to the Lang sampler
2002/09/21	01:21:58	47.94773526	-129.09953094	2193.412	EVT	44.600	1.450	getting closer to the Lang sampler with the intake
2002/09/21	01:22:06	47.94773503	-129.09953146	2193.554	EVT	43.860	1.510	placing the funnel into the milkcrate
2002/09/21	01:23:38	47.94772245	-129.09952084	2193.676	EVT	42.670	1.970	going over to the other side of the Lang sampler
where the release is								
2002/09/21	01:27:44	47.94776988	-129.09948437	2195.458	EVT	278.360	0.800	spinning around the sampler
2002/09/21	01:28:17	47.94777212	-129.09948397	2195.452	EVT	278.310	0.790	holding on to the milk crate
2002/09/21	01:29:25	47.94782129	-129.09966483	2195.397	EVT	277.930	0.700	pushing the Lang sampler around
2002/09/21	01:37:06	47.94790644	-129.09941800	2195.411	EVT	278.230	0.740	grabbing the release on the Lang sampler
2002/09/21	01:37:33	47.94802398	-129.09918463	2195.350	EVT	278.130	0.780	lost hold of the release
2002/09/21	01:37:48	47.94801044	-129.09920395	2195.438	EVT	277.560	0.710	lost it again
2002/09/21	01:38:20	47.94794213	-129.09923735	2195.479	EVT	277.650	0.720	Lang sampler released
2002/09/21	01:39:15	47.94775715	-129.09961524	2195.452	EVT	277.690	0.710	going to drop release cord offsite for fear of future
entanglement in the thrusters								
2002/09/21	01:40:26	47.94774789	-129.09956129	2193.439	EVT	17.430	2.430	markers and MAVs
2002/09/21	01:41:58	47.94774333	-129.09944967	2189.204	EVT	95.370	6.890	dropping cord
2002/09/21	02:02:00	47.94780609	-129.09928214	2192.341	EVT	272.640	2.330	odd-shaped rock at left
2002/09/21	02:02:31	47.94780250	-129.09926806	2186.019	EVT	273.190	8.660	going to 2150 to scale The Wall

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/21	02:03:59	47.94781197	-129.09934035	2141.295	EVT	272.840	30.000	make that 2100m
2002/09/21	03:03:08	47.94499330	-129.09455522	2100.209	EVT	136.010	30.000	lang sampler was on deck 02:40
2002/09/21	03:03:27	47.94500076	-129.09454993	2100.209	EVT	136.230	30.000	now transiting to thermal blanket site (nav target 21)
2002/09/21	03:53:42	47.94509956	-129.09814763	2128.037	EVT	299.930	9.530	bottom in sight
2002/09/21	03:57:19	47.94525614	-129.09801682	2123.759	EVT	87.440	4.430	looking for blanket
2002/09/21	04:00:07	47.94521262	-129.09827095	2128.931	EVT	278.440	4.230	we are at nav target 21
2002/09/21	04:01:32	47.94519008	-129.09830981	2133.134	EVT	212.230	1.680	thermal blanket in sight
2002/09/21	04:02:46	47.94514090	-129.09833661	2134.856	EVT	156.890	1.110	blank-text
2002/09/21	04:04:07	47.94513419	-129.09833157	2135.093	EVT	158.720	0.880	picked up thermal blanket
2002/09/21	04:06:15	47.94513791	-129.09832529	2132.138	EVT	170.060	3.690	blanket grabbed
2002/09/21	04:06:27	47.94513792	-129.09832488	2131.968	EVT	170.110	3.890	transitting to site f for blanket deployment
2002/09/21	04:06:32	47.94513835	-129.09832446	2132.029	EVT	169.600	3.830	pilot said oops
2002/09/21	04:06:36	47.94513801	-129.09832500	2132.050	EVT	170.450	3.830	we're not moving yet
2002/09/21	04:08:50	47.94513816	-129.09832540	2131.711	EVT	170.100	4.070	dropped thermal blanket
2002/09/21	04:09:48	47.94514373	-129.09831770	2134.869	EVT	163.440	0.990	blanket dropped
2002/09/21	04:10:53	47.94514658	-129.09831747	2134.741	EVT	162.990	1.190	picked up thermal blanket
2002/09/21	04:11:20	47.94514653	-129.09831565	2134.646	EVT	163.150	1.160	picked back up
2002/09/21	04:14:37	47.94516922	-129.09830544	2128.626	EVT	160.910	6.380	on way to east field\
2002/09/21	04:15:20	47.94520969	-129.09829322	2122.905	EVT	75.140	12.790	East Field one hour away
2002/09/21	04:46:36	47.94475267	-129.09473608	2124.837	EVT	88.100	30.000	jelly beans have been catalogued
2002/09/21	05:06:44	47.94467363	-129.09271451	2123.312	EVT	97.020	30.000	approaching the wall
2002/09/21	05:12:47	47.94473944	-129.09255011	2123.583	EVT	165.270	21.080	we are at the wall
2002/09/21	05:14:45	47.94465939	-129.09309109	2124.017	EVT	296.520	28.330	going over the wall
2002/09/21	05:16:55	47.94464494	-129.09280060	2123.604	EVT	88.800	12.300	looking for flat spot
2002/09/21	05:21:59	47.94473408	-129.09251744	2116.445	EVT	71.910	4.090	going over talus slope
2002/09/21	05:24:33	47.94478255	-129.09238880	2114.459	EVT	102.210	1.540	deploying thermal blanket
2002/09/21	05:25:29	47.94478258	-129.09238908	2114.744	EVT	101.830	1.480	thermal blanket on bottom
2002/09/21	05:26:51	47.94478732	-129.09239688	2112.771	EVT	101.470	7.240	blank-text
2002/09/21	05:27:00	47.94478739	-129.09239739	2112.859	EVT	101.400	7.090	we have a decent jason fix here
2002/09/21	05:27:10	47.94478726	-129.09239640	2113.103	EVT	101.480	6.990	blank-text
2002/09/21	05:27:35	47.94478727	-129.09239654	2112.913	EVT	101.410	7.120	nav target 22
2002/09/21	05:28:08	47.94478766	-129.09239702	2113.008	EVT	101.350	7.020	that was an approx. 60m wall
2002/09/21	05:41:30	47.94447093	-129.09220334	2108.060	EVT	140.420	5.540	on our way to east field
2002/09/21	05:41:34	47.94447608	-129.09219867	2108.012	EVT	140.070	4.900	bottom in sight
2002/09/21	05:48:19	47.94404115	-129.09164972	2111.232	EVT	141.270	10.140	found something interesting
2002/09/21	05:48:29	47.94404172	-129.09165033	2110.764	EVT	141.400	10.670	not a vent though
2002/09/21	05:49:37	47.94393370	-129.09152142	2110.907	EVT	140.150	7.660	moving on
2002/09/21	05:51:54	47.94387938	-129.09145473	2109.836	EVT	141.260	7.890	some structures here, looking for vents
2002/09/21	05:55:35	47.94372595	-129.09127063	2106.182	EVT	141.350	3.690	blank-text
2002/09/21	05:56:33	47.94366197	-129.09120087	2103.382	EVT	141.560	3.680	red staining
2002/09/21	05:57:36	47.94361269	-129.09114255	2098.955	EVT	142.170	5.640	still heading toward EF target

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/21	05:59:57	47.94645012	-129.09003533	2096.420	EVT	141.850	5.040	blank-text
2002/09/21	06:01:47	47.94633676	-129.08989922	2095.274	EVT	140.150	6.960	blank-text
2002/09/21	06:01:56	47.94632699	-129.08988766	2095.498	EVT	141.600	6.510	prev. frame had sparkly stuff
2002/09/21	06:02:31	47.94629480	-129.08984774	2093.348	EVT	142.410	8.900	paul says some of this looks like old crummy sulfides
2002/09/21	06:02:49	47.94627509	-129.08982457	2094.101	EVT	141.680	8.220	old spire?
2002/09/21	06:02:53	47.94627121	-129.08981984	2093.864	EVT	141.650	7.860	blank-text
2002/09/21	06:03:34	47.94624336	-129.08978687	2094.013	EVT	141.680	7.270	extinct sulfide
2002/09/21	06:05:00	47.94619847	-129.08973333	2093.728	EVT	141.450	8.220	southwest of marker EF now
2002/09/21	06:05:40	47.94617163	-129.08970004	2093.870	EVT	140.330	8.360	extinct suflide
2002/09/21	06:06:03	47.94616045	-129.08968784	2094.033	EVT	141.130	8.590	blank-text
2002/09/21	06:06:29	47.94613328	-129.08965484	2093.864	EVT	141.960	9.590	blank-text
2002/09/21	06:06:33	47.94612925	-129.08965005	2093.769	EVT	141.950	9.550	blank-text
2002/09/21	06:08:08	47.94610563	-129.08962170	2093.823	EVT	141.230	9.140	considering setting up a search pattern
2002/09/21	06:09:10	47.94610536	-129.08962158	2093.823	EVT	145.390	9.170	blank-text
2002/09/21	06:09:20	47.94610576	-129.08962178	2093.748	EVT	145.240	9.330	mysterious reddish things
2002/09/21	06:09:48	47.94610459	-129.08962045	2094.433	EVT	145.270	8.640	blank-text
2002/09/21	06:09:53	47.94610446	-129.08962026	2094.060	EVT	147.350	8.930	dead sponge?
2002/09/21	06:10:31	47.94610570	-129.08962060	2097.721	EVT	147.600	5.250	blank-text
2002/09/21	06:10:37	47.94610449	-129.08961920	2097.870	EVT	146.810	5.260	big vent
2002/09/21	06:10:52	47.94610838	-129.08961422	2096.508	EVT	146.810	6.490	covered with filter feeders = no activity?
2002/09/21	06:11:16	47.94608782	-129.08955602	2097.342	EVT	148.840	5.240	continuing search
2002/09/21	06:12:36	47.94604384	-129.08951387	2096.928	EVT	254.330	4.620	blank-text
2002/09/21	06:13:29	47.94602022	-129.08964718	2095.348	EVT	255.100	6.720	lots of extinct vents around
2002/09/21	06:15:47	47.94607472	-129.08997534	2098.318	EVT	325.550	7.280	blank-text
2002/09/21	06:16:11	47.94607204	-129.08997129	2098.636	EVT	326.000	6.790	blank-text
2002/09/21	06:16:59	47.94611453	-129.08997464	2097.626	EVT	355.730	7.290	seems pretty dead, but water is full of stuff
2002/09/21	06:17:11	47.94614567	-129.08997538	2095.077	EVT	359.790	9.250	(as if there's an active smoker)
2002/09/21	06:19:57	47.94627699	-129.08987192	2093.213	EVT	168.500	9.480	still searching for the mythical active vent
2002/09/21	06:20:25	47.94614496	-129.08983214	2092.881	EVT	167.740	6.130	blank-text
2002/09/21	06:21:59	47.94608925	-129.08978052	2099.342	EVT	80.710	3.930	blank-text
2002/09/21	06:22:05	47.94608914	-129.08978118	2099.816	EVT	83.180	3.590	huge vent
2002/09/21	06:22:09	47.94608933	-129.08978169	2099.931	EVT	83.660	3.420	blank-text
2002/09/21	06:22:13	47.94608964	-129.08978267	2099.653	EVT	83.530	3.710	sponge
2002/09/21	06:22:17	47.94608980	-129.08978345	2099.552	EVT	83.460	3.710	or coral
2002/09/21	06:22:57	47.94609490	-129.08978748	2095.769	EVT	83.400	6.470	blank-text
2002/09/21	06:23:00	47.94609507	-129.08978876	2095.498	EVT	83.470	7.390	blank-text
2002/09/21	06:23:08	47.94609892	-129.08979187	2095.776	EVT	84.130	7.060	classic sulfide with flange, but extinct
2002/09/21	06:23:14	47.94610883	-129.08979419	2095.070	EVT	83.660	4.800	blank-text
2002/09/21	06:25:59	47.94613968	-129.08954256	2094.101	EVT	212.910	7.810	blank-text
2002/09/21	06:26:04	47.94611976	-129.08956425	2094.331	EVT	221.640	8.000	another spire
2002/09/21	06:26:12	47.94609319	-129.08959852	2093.911	EVT	219.470	8.580	another extinct spire

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/21	06:26:44	47.94608550	-129.08960511	2093.450	EVT	221.250	9.160	we've been going around in circles waiting for medea
								to move
2002/09/21	06:28:34	47.94608677	-129.08940305	2094.860	EVT	59.840	6.880	blank-text
2002/09/21	06:32:33	47.94608457	-129.08912099	2100.406	EVT	344.990	4.810	blank-text
2002/09/21	06:34:11	47.94615338	-129.08927492	2096.921	EVT	251.910	8.690	lots of stuff floating in the water here
2002/09/21	06:35:01	47.94614848	-129.08928540	2098.779	EVT	268.060	6.550	blank-text
2002/09/21	06:36:32	47.94614838	-129.08942108	2097.782	EVT	108.290	3.800	blank-text
2002/09/21	06:36:43	47.94613927	-129.08934982	2098.311	EVT	96.360	3.040	blank-text
2002/09/21	06:44:46	47.94643968	-129.08935177	2094.813	EVT	350.040	6.460	searching area east of EF marker
2002/09/21	06:46:45	47.94651190	-129.08924589	2094.013	EVT	186.380	6.030	blank-text
2002/09/21	06:47:11	47.94645178	-129.08926959	2093.735	EVT	200.060	7.130	another spire was spotted
2002/09/21	07:04:12	47.94640595	-129.08944970	2097.857	EVT	269.000	3.850	we are still exploring the East Field
2002/09/21	07:06:02	47.94637304	-129.08977245	2099.735	EVT	157.250	3.870	neat looking sponges are everywhere
2002/09/21	07:06:25	47.94632766	-129.08971901	2099.606	EVT	181.250	3.670	long extensional fractures are seen in the Medea view
2002/09/21	07:06:51	47.94629926	-129.08979166	2099.186	EVT	284.120	4.540	Paul says "this was a big field"
2002/09/21	07:10:51	47.94648855	-129.08947015	2097.199	EVT	356.050	5.650	large fracture in view
2002/09/21	07:11:31	47.94648657	-129.08947687	2097.125	EVT	262.920	4.950	Paul says "I think it's a bust"
2002/09/21	07:11:48	47.94648924	-129.08957601	2097.979	EVT	229.470	5.470	we have covered a lot of area and not found any
								active chimneys
2002/09/21	07:22:23	47.94595699	-129.08963435	2093.850	EVT	266.880	8.780	extinct sulfide structure
2002/09/21	07:23:45	47.94595823	-129.08987462	2100.291	EVT	273.180	5.020	more sulphides
2002/09/21	07:24:02	47.94596439	-129.08988049	2099.986	EVT	272.650	5.360	more sulphides
2002/09/21	07:24:12	47.94596199	-129.08990724	2100.216	EVT	257.390	5.980	su
2002/09/21	07:24:27	47.94596003	-129.08993253	2099.511	EVT	258.420	6.970	oops,
2002/09/21	07:24:34	47.94595070	-129.08997281	2099.931	EVT	257.270	5.590	Large sulphide structure
2002/09/21	07:24:47	47.94594717	-129.08997608	2099.125	EVT	232.390	6.200	extinct sulphide structure
2002/09/21	07:25:04	47.94593676	-129.08995913	2100.026	EVT	165.530	4.950	extinct sulphide structure
2002/09/21	07:25:33	47.94589790	-129.08993401	2100.169	EVT	178.760	5.930	sulphides with biology
2002/09/21	07:25:47	47.94587641	-129.08992807	2099.342	EVT	152.800	4.140	i can't spell tonight
2002/09/21	07:26:01	47.94587556	-129.08992586	2099.911	EVT	93.650	1.420	extinct spires
2002/09/21	07:26:03	47.94587498	-129.08991704	2100.006	EVT	91.790	1.530	extinct spires
2002/09/21	07:26:06	47.94587414	-129.08989473	2100.257	EVT	92.570	3.650	extinct spires
2002/09/21	07:26:10	47.94587580	-129.08987827	2100.243	EVT	95.110	4.320	extinct spires
2002/09/21	07:26:10	47.94587580	-129.08987827	2100.243	EVT	95.110	4.320	extinct spires
2002/09/21	07:26:26	47.94588075	-129.08982087	2097.104	EVT	93.080	6.650	extinct spires
2002/09/21	07:26:29	47.94588059	-129.08981556	2097.253	EVT	94.690	6.020	extinct spires
2002/09/21	07:26:47	47.94587878	-129.08975732	2096.121	EVT	97.780	3.310	more like a ridge of sulphides
2002/09/21	07:27:01	47.94587470	-129.08968887	2096.250	EVT	97.030	2.900	lots of red corals on these extinct sulphides
2002/09/21	07:30:07	47.94575789	-129.08935663	2100.535	EVT	208.710	4.390	more extinct structures
2002/09/21	07:30:18	47.94575023	-129.08935812	2102.724	EVT	208.810	2.560	what is this white patch?
2002/09/21	07:30:25	47.94574674	-129.08935984	2102.962	EVT	208.610	2.370	white stuff

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/21	07:31:15	47.94576748	-129.08940377	2100.935	EVT	303.810	4.010	from Medea's view, it looks like there is more of the same (dead stuff) ahead
2002/09/21	07:32:04	47.94576463	-129.08939849	2101.199	EVT	302.890	3.980	we are moving to Grotto in the north of the MEF
2002/09/21	07:34:25	47.94558613	-129.08920702	2089.674	EVT	133.420	21.210	it's going to be 750 metres to Grotto
2002/09/21	07:36:34	47.94548770	-129.08903724	2038.332	EVT	160.190	30.000	We are doing fluid sampling at Grotto
2002/09/21	07:37:16	47.94548161	-129.08903960	2039.512	EVT	138.690	30.000	ETA to Grotto is an hour
2002/09/21	08:44:11	47.95089910	-129.09628767	2192.368	EVT	352.140	7.370	we are on the bottom
2002/09/21	08:44:19	47.95090843	-129.09628681	2192.585	EVT	352.110	6.930	this is Grotto
2002/09/21	08:45:36	47.95092066	-129.09635095	2187.035	EVT	327.950	11.830	Grotto
2002/09/21	08:45:54	47.95093251	-129.09633106	2187.388	EVT	335.200	11.520	looking for a place to take fluid samples
2002/09/21	08:46:17	47.95091602	-129.09636995	2187.645	EVT	323.080	11.140	Grotto
2002/09/21	08:46:52	47.95088689	-129.09640677	2187.435	EVT	320.420	10.280	Grotto
2002/09/21	08:46:57	47.95088435	-129.09640674	2187.286	EVT	327.780	8.310	marker
2002/09/21	08:47:03	47.95088474	-129.09640744	2187.916	EVT	325.750	8.060	marker
2002/09/21	08:47:16	47.95088671	-129.09640654	2187.340	EVT	325.790	8.590	cannot read what it is
2002/09/21	08:47:24	47.95089924	-129.09641653	2187.333	EVT	325.420	8.540	moving closer
2002/09/21	08:47:46	47.95090770	-129.09642678	2188.011	EVT	325.650	7.260	Grotto
2002/09/21	08:48:42	47.95091008	-129.09641616	2187.794	EVT	322.630	7.450	going to do some Beast sampling
2002/09/21	08:51:30	47.95093505	-129.09640567	2188.492	EVT	317.370	9.690	blank-text
2002/09/21	08:51:30	47.95093505	-129.09640567	2188.492	EVT	317.370	9.690	Grotto
2002/09/21	08:51:43	47.95093530	-129.09640579	2188.689	EVT	317.320	9.620	black smoker at Grotto
2002/09/21	08:52:25	47.95093519	-129.09640585	2188.526	EVT	317.370	9.890	going to use Major sampler #16 here
2002/09/21	08:55:46	47.95093554	-129.09640555	2188.370	EVT	316.780	9.910	taking an ICL temp measurement
2002/09/21	08:56:09	47.95093618	-129.09640550	2188.485	EVT	316.590	9.950	taking ICL temperature
2002/09/21	08:56:39	47.95093663	-129.09640554	2188.418	EVT	316.600	9.950	340 degrees and rising
2002/09/21	08:56:46	47.95093664	-129.09640550	2188.472	EVT	316.580	9.940	that's hot!
2002/09/21	08:57:30	47.95093637	-129.09640559	2188.418	EVT	316.710	9.910	346 degrees now
2002/09/21	08:57:41	47.95093634	-129.09640550	2188.479	EVT	316.540	9.940	that was the maximum, 346 degrees
2002/09/21	08:57:49	47.95093620	-129.09640547	2188.350	EVT	316.430	9.930	putting ICL probe
2002/09/21	08:58:09	47.95093615	-129.09640543	2188.445	EVT	316.670	9.920	grabbing a major sampler
2002/09/21	08:59:23	47.95093629	-129.09640558	2188.343	EVT	316.650	9.930	.
2002/09/21	09:02:58	47.95093580	-129.09640548	2188.357	EVT	317.120	9.910	Taking a major, #16, at Grotto
2002/09/21	09:03:42	47.95093619	-129.09640559	2188.357	EVT	317.150	9.930	Grotto major
2002/09/21	09:04:52	47.95093553	-129.09640534	2188.350	EVT	317.370	9.860	Done with major #16 at Grotto
2002/09/21	09:06:18	47.95092946	-129.09639674	2187.130	EVT	318.710	10.880	Going to look for diffuse flow around Grotto
2002/09/21	09:07:19	47.95091818	-129.09637971	2187.015	EVT	318.720	11.580	Picking up Butterfield sampler
2002/09/21	09:09:42	47.95092608	-129.09639856	2188.458	EVT	316.440	9.390	Lots of shimmery flow and animals at base of Grotto
2002/09/21	09:10:53	47.95092571	-129.09639862	2188.648	EVT	318.770	9.310	Probing diffuse flow with Butterfield sampler
2002/09/21	09:16:44	47.95092565	-129.09639858	2188.519	EVT	319.120	9.290	started sample p4
2002/09/21	09:21:49	47.95092544	-129.09639845	2188.628	EVT	319.120	9.280	piston 4 stopped

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/21	09:22:32	47.95092542	-129.09639840	2188.567	EVT	319.150	9.280	piston 4 Tmax 24.2 Tavg (value questionable around 23) T2max about 12 volume 520
2002/09/21	09:23:53	47.95092544	-129.09639816	2188.574	EVT	319.210	9.290	starting piston 5
2002/09/21	09:29:48	47.95092536	-129.09639789	2188.526	EVT	319.270	9.300	stopped piston
2002/09/21	09:29:55	47.95092536	-129.09639788	2188.506	EVT	319.330	9.290	stopped piston 5
2002/09/21	09:30:27	47.95092541	-129.09639782	2188.546	EVT	319.320	9.290	piston 5 Tmax 22.8 Tavg 21.0 +/- 1 T2max 11 volume 597
2002/09/21	09:30:53	47.95092537	-129.09639781	2188.580	EVT	319.350	9.290	starting filter 6
2002/09/21	09:39:01	47.95092474	-129.09639733	2188.397	EVT	319.710	9.280	blank-text
2002/09/21	09:42:03	47.95092456	-129.09639721	2188.492	EVT	319.680	9.290	filter 6 stopped
2002/09/21	09:42:54	47.95092446	-129.09639708	2188.458	EVT	319.700	9.360	filter 6 Tmax 22.4 Tavg 17.6 +/- 3 T2max 8 volume 1000
2002/09/21	09:43:30	47.95092448	-129.09639715	2188.465	EVT	319.620	9.340	starting filter 7
2002/09/21	09:53:48	47.95092365	-129.09639626	2188.370	EVT	320.070	9.100	stopping
2002/09/21	09:53:56	47.95092363	-129.09639630	2188.357	EVT	320.140	9.430	stopping sample 7
2002/09/21	09:54:32	47.95092355	-129.09639625	2188.370	EVT	320.140	9.450	filter 7 Tmax 21.1 Tavg 17.7 +/- 12 T2max 9.4 volume 1054
2002/09/21	09:56:19	47.95092342	-129.09639606	2188.262	EVT	320.010	9.410	old crusty marker
2002/09/21	09:59:42	47.95092332	-129.09639596	2188.262	EVT	319.970	9.380	starting bag 8f
2002/09/21	10:05:47	47.95092302	-129.09639571	2188.330	EVT	319.680	9.340	stopped bag 8f
2002/09/21	10:06:15	47.95092296	-129.09639573	2188.255	EVT	319.700	9.320	bag 8f Tmax 19.6 Tavg 18.9 +/- .4 T2max 11 volume 612
2002/09/21	10:06:33	47.95092296	-129.09639571	2188.167	EVT	319.730	9.330	done with this spot
2002/09/21	10:09:06	47.95091787	-129.09639423	2186.676	EVT	318.840	10.900	putting the Butterfield nozzle away
2002/09/21	10:11:38	47.95092039	-129.09642341	2187.496	EVT	322.020	7.460	trying to read this marker
2002/09/21	10:12:38	47.95092182	-129.09642341	2188.011	EVT	322.520	6.580	shake shake shake - shake shake shake - shake your marker
2002/09/21	10:13:46	47.95092045	-129.09642403	2187.964	EVT	321.890	6.510	scrape scrape scrape - scrape scrape scrape - scrape your marker
2002/09/21	10:13:55	47.95092048	-129.09642400	2187.950	EVT	321.760	6.440	boy that helped
2002/09/21	10:14:11	47.95092048	-129.09642401	2188.120	EVT	321.730	6.520	nope the other side doesn't look so good either... but we can see an "A"
2002/09/21	10:15:38	47.95092053	-129.09642398	2187.896	EVT	321.970	6.390	well we'll give up on cleaning the marker off
2002/09/21	10:20:33	47.95091384	-129.09641818	2187.882	EVT	351.180	6.320	getting ready to do some bio sampling
2002/09/21	10:22:03	47.95091339	-129.09641740	2187.876	EVT	350.780	6.350	getting out the ICL to take some temps prior to sampling the biology
2002/09/21	10:23:57	47.95091343	-129.09641702	2187.896	EVT	349.750	6.610	That last probe spot was 24
2002/09/21	10:24:09	47.95091344	-129.09641698	2187.774	EVT	349.840	6.420	that is 24 degrees
2002/09/21	10:24:44	47.95091329	-129.09641671	2187.699	EVT	350.390	6.480	TEMP right next to marker 20 and going up
2002/09/21	10:26:22	47.95091449	-129.09641782	2187.801	EVT	349.150	6.130	Left side of marker in the biology TEMP was 4 - 8 degrees

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/21	10:26:45	47.95091443	-129.09641778	2187.862	EVT	349.140	6.120	the 20 degrees next to marker mentioned a few entries ago was in the sulfide
2002/09/21	10:32:22	47.95092170	-129.09644098	2187.706	EVT	29.120	4.210	grabbing the biology
2002/09/21	10:32:31	47.95092131	-129.09644132	2187.848	EVT	25.140	4.160	we think they may all be dead
2002/09/21	10:33:55	47.95092089	-129.09644081	2188.167	EVT	38.580	3.690	sample in biobox
2002/09/21	10:34:08	47.95092067	-129.09644075	2188.174	EVT	37.100	3.640	taking another grab
2002/09/21	10:35:48	47.95092032	-129.09644111	2188.092	EVT	39.040	3.320	closing the biobox
2002/09/21	10:36:17	47.95091445	-129.09644823	2187.015	EVT	38.030	4.120	we just bounced off and the biobox popped up
2002/09/21	10:38:01	47.95091486	-129.09644672	2187.022	EVT	38.360	4.300	swing arm with biobox put away
2002/09/21	10:42:18	47.95080330	-129.09639054	2186.629	EVT	176.700	7.140	we are headed for Dudley
2002/09/21	10:44:59	47.95079454	-129.09638874	2187.259	EVT	176.230	6.590	changing tapes
2002/09/21	10:46:26	47.95079461	-129.09638899	2186.839	EVT	176.560	7.000	all tapes changed
2002/09/21	11:01:19	47.95070640	-129.09571393	2186.927	EVT	100.130	13.500	coming up on Dudley... we think
2002/09/21	11:02:14	47.95069573	-129.09572010	2188.973	EVT	100.230	11.450	should be some markers around here
2002/09/21	11:04:37	47.95069843	-129.09571989	2189.455	EVT	100.500	10.920	going to look at the other side to see if we can find venting from last time this site was sampled
2002/09/21	11:05:18	47.95069827	-129.09571994	2189.468	EVT	100.410	10.810	we can see some kinda marker - but haven't looked closely at it
2002/09/21	11:11:08	47.94873808	-129.09745901	2189.915	EVT	283.240	8.870	there's a big ol vent
2002/09/21	11:11:16	47.94873817	-129.09745754	2190.383	EVT	283.480	8.540	two vents actually
2002/09/21	11:13:24	47.94873125	-129.09746799	2190.349	EVT	295.000	10.720	going to major sample one of these vents
2002/09/21	11:15:12	47.94873531	-129.09748243	2192.355	EVT	297.620	9.550	we are trying to find a spot to set down to sample this vent
2002/09/21	11:18:09	47.94873917	-129.09748491	2192.633	EVT	312.920	9.180	we have a sampling spot
2002/09/21	11:20:24	47.94873928	-129.09748382	2192.477	EVT	308.900	9.450	going to ICL this smoker
2002/09/21	11:22:03	47.94873808	-129.09748540	2192.572	EVT	320.080	9.090	background TEMP 2.5 about .5 - 1 meters from smoke
2002/09/21	11:22:22	47.94873804	-129.09748547	2192.545	EVT	320.170	9.270	TEMP in smoke up to 300
2002/09/21	11:24:02	47.94873809	-129.09748569	2192.504	EVT	320.320	9.100	TEMP in smoke maxed at 323
2002/09/21	11:26:57	47.94873782	-129.09748553	2192.551	EVT	320.530	9.070	getting out the double major now to sample this smoker
2002/09/21	11:27:17	47.94873775	-129.09748544	2192.619	EVT	320.610	9.160	major bottle 10C looks like it might be out a bit... might have been triggered when it was dropped twice earlier
2002/09/21	11:31:45	47.94873683	-129.09748482	2192.578	EVT	320.360	9.080	looks like the ram plate got jarred - we'll have to trigger one bottle at a time here
2002/09/21	11:34:00	47.94873674	-129.09748472	2192.511	EVT	320.210	9.070	both tattle-tales showing good smoke - maybe a bit more in 10C
2002/09/21	11:34:09	47.94873665	-129.09748456	2192.517	EVT	320.230	9.070	bottle 10C triggered
2002/09/21	11:34:22	47.94873660	-129.09748454	2192.463	EVT	320.220	9.070	spring is opening just fine
2002/09/21	11:35:46	47.94873604	-129.09748401	2192.524	EVT	320.190	9.070	retracting ram on bottle 10C
2002/09/21	11:36:45	47.94873582	-129.09748380	2192.490	EVT	320.230	9.040	now switching to bottle 1C

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/21	11:36:53	47.94873583	-129.09748385	2192.490	EVT	320.230	9.090	good flow out of bottle 1C
2002/09/21	11:37:00	47.94873584	-129.09748389	2192.504	EVT	320.240	9.050	bottle 1C triggered
2002/09/21	11:37:14	47.94873585	-129.09748392	2192.443	EVT	320.190	9.070	bottle 1C opening fine
2002/09/21	11:40:23	47.94873560	-129.09748376	2192.368	EVT	320.920	9.030	finished with taking the double major sample
2002/09/21	11:40:45	47.94873557	-129.09748390	2192.497	EVT	320.870	8.950	begin looking for low temp. diffuse flow near black smoker
2002/09/21	11:42:45	47.94873986	-129.09748954	2192.389	EVT	321.020	9.000	Pyrite next to larger Black smoker
2002/09/21	11:45:31	47.94875656	-129.09748293	2191.352	EVT	294.170	7.180	moving away from black smokers to find diffuse flow
2002/09/21	11:49:10	47.94876680	-129.09748750	2190.505	EVT	276.900	9.230	Looking on Dudley from the West now.
2002/09/21	11:50:24	47.94877058	-129.09749712	2190.254	EVT	275.160	9.690	Top of structure appears to have shimmering water while sides do not.
2002/09/21	11:51:34	47.94877077	-129.09749736	2190.044	EVT	273.940	9.500	getting butterfield sampler put and ready on top of Dudley
2002/09/21	11:53:17	47.94877031	-129.09749826	2190.003	EVT	273.630	9.530	butterfield sampler in place, lots of shimmery water.
2002/09/21	11:53:41	47.94877038	-129.09749817	2190.024	EVT	273.510	9.510	temperature increasing steadily
2002/09/21	11:54:39	47.94877067	-129.09749770	2189.942	EVT	273.070	9.740	trying to lay sampler on its side instead of poking straight in
2002/09/21	11:55:20	47.94877087	-129.09749719	2189.970	EVT	273.050	9.900	Moved sampler back to crack in top of structure
2002/09/21	11:55:36	47.94877097	-129.09749681	2190.058	EVT	273.200	9.590	Up to 10.3 degrees
2002/09/21	11:55:49	47.94877106	-129.09749661	2190.058	EVT	273.180	9.870	still searching for higher temp flow
2002/09/21	11:56:40	47.94877131	-129.09749598	2189.963	EVT	273.180	9.600	moved back further to whitish colored area and peaked at 11 degrees
2002/09/21	11:59:40	47.94877177	-129.09749521	2189.949	EVT	274.070	9.590	highest temperature was at the beginning of search, in crack behind the redish biology
2002/09/21	11:59:58	47.94877172	-129.09749540	2189.834	EVT	274.000	9.510	temperature of 85 degrees
2002/09/21	12:00:33	47.94877164	-129.09749554	2190.010	EVT	274.040	9.840	exhaust of sampler smoking white at 95 degrees
2002/09/21	12:01:32	47.94877138	-129.09749587	2189.936	EVT	274.150	9.850	getting ready to take a piston sampler
2002/09/21	12:02:58	47.94877150	-129.09749550	2189.875	EVT	274.160	9.530	valve is not cooperating
2002/09/21	12:03:39	47.94877141	-129.09749555	2189.922	EVT	274.210	9.840	need to reboot the sampler
2002/09/21	12:05:30	47.94877121	-129.09749572	2189.990	EVT	274.060	9.600	up and running again
2002/09/21	12:06:58	47.94877120	-129.09749520	2189.820	EVT	273.910	9.840	sample of piston #22 started
2002/09/21	12:07:26	47.94877115	-129.09749523	2189.942	EVT	273.840	9.900	fresh water can be seen coming out of sample exhaust tube
2002/09/21	12:07:33	47.94877120	-129.09749515	2189.854	EVT	273.810	9.820	piston is moving.
2002/09/21	12:10:50	47.94877154	-129.09749322	2189.854	EVT	273.750	9.870	still sampling
2002/09/21	12:13:10	47.94877133	-129.09749392	2189.820	EVT	273.550	9.840	stopping sample #22
2002/09/21	12:13:24	47.94877132	-129.09749395	2189.861	EVT	273.560	9.910	Temperature went down with pumping
2002/09/21	12:13:46	47.94877133	-129.09749393	2189.827	EVT	273.670	9.620	avg 54.5 +- 5
2002/09/21	12:13:57	47.94877138	-129.09749386	2189.888	EVT	273.590	9.820	T2 25 degrees.
2002/09/21	12:14:14	47.94877146	-129.09749362	2189.868	EVT	273.600	9.670	Masimum Temperature was 68.5 degrees

Event log: LEXEN 2002

Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/21	12:14:23	47.94877157	-129.09749347	2189.929	EVT	273.560	9.810	Volume 643 ml
2002/09/21	12:14:42	47.94877168	-129.09749336	2189.820	EVT	273.650	9.830	starting sample bag #19
2002/09/21	12:15:11	47.94877177	-129.09749316	2189.732	EVT	273.630	9.610	fresh water observed fcoming from the exhaust tube.
2002/09/21	12:20:15	47.94877247	-129.09749023	2189.888	EVT	273.870	9.870	Temperature is going back up to 75 degrees now
2002/09/21	12:20:41	47.94877258	-129.09748984	2189.746	EVT	273.920	9.910	stopped sample
2002/09/21	12:21:09	47.94877243	-129.09748990	2189.861	EVT	274.160	9.760	max 76.4, avg 62.1 +/- 8
2002/09/21	12:21:28	47.94877226	-129.09749018	2189.746	EVT	274.100	9.910	t2 is 33 Volume is 600ml
2002/09/21	12:22:03	47.94877205	-129.09749053	2189.746	EVT	273.950	9.750	filtered bag #17 started
2002/09/21	12:28:39	47.94877254	-129.09748886	2189.637	EVT	273.400	9.610	stopping sample max 86.5, avg 82.1 +/- 3, T2 35 deg. Volume 606ml
2002/09/21	12:29:40	47.94877209	-129.09748948	2189.753	EVT	273.350	9.760	starting piston #23
2002/09/21	12:37:00	47.94877127	-129.09748833	2189.570	EVT	273.300	9.830	stopping sample
2002/09/21	12:37:44	47.94877111	-129.09748837	2189.658	EVT	273.240	9.900	max 91.8, avg.85.9 +/- 2.5, T2 37 volume 563ml
2002/09/21	12:39:48	47.94877136	-129.09748745	2189.570	EVT	273.340	9.890	starting filter #15
2002/09/21	12:46:50	47.94877207	-129.09748456	2189.556	EVT	273.370	9.560	stopping sample
2002/09/21	12:47:30	47.94877210	-129.09748430	2189.590	EVT	273.550	9.880	max temp 86.9, avg 81.7 +/- 2, T2 26 volume 801ml
2002/09/21	12:49:33	47.94877217	-129.09748383	2189.495	EVT	273.470	9.700	started #12 about 1 minute ago
2002/09/21	12:51:47	47.94877221	-129.09748301	2189.482	EVT	273.360	9.670	the 3rd little monitor went black and andy and jim are checking the routing to ensure that the signal is still being recorded
2002/09/21	12:54:33	47.94877247	-129.09748158	2189.441	EVT	273.730	9.820	input is fine, but the monitor is not working.
2002/09/21	12:54:48	47.94877242	-129.09748167	2189.461	EVT	273.730	9.660	tested monitor 4 on 3 and got nothing.
2002/09/21	12:56:40	47.94877229	-129.09748114	2189.421	EVT	274.050	9.780	monitor back up after changing input channel
2002/09/21	12:57:56	47.94877232	-129.09748111	2189.529	EVT	273.330	9.810	stopping sample
2002/09/21	12:58:34	47.94877233	-129.09748117	2189.488	EVT	273.320	9.860	max temp 82.2,avg. 61.5 +/- 15, T2 20 volume 983
2002/09/21	12:59:50	47.94877203	-129.09748136	2189.482	EVT	273.570	9.890	starting filter #1
2002/09/21	13:02:39	47.94877161	-129.09748128	2189.366	EVT	273.340	9.920	sample finished
2002/09/21	13:03:22	47.94877191	-129.09748072	2189.515	EVT	273.370	9.790	max temp 35.5, Avg. 32.1 +/- 4, 239 ml volume T2 16 degrees
2002/09/21	13:03:31	47.94877200	-129.09748065	2189.333	EVT	273.170	9.600	sampler removed from vent
2002/09/21	13:04:13	47.94877203	-129.09748028	2189.427	EVT	273.250	9.820	sampler reholstered.
2002/09/21	13:04:27	47.94877201	-129.09748019	2189.502	EVT	273.480	9.750	blank-text
2002/09/21	13:05:58	47.94877235	-129.09748160	2189.427	EVT	273.120	9.830	moving towards bottom of structure to investigate diffuse flow
2002/09/21	13:08:05	47.94874380	-129.09741160	2191.677	EVT	279.030	8.950	moving down to the bottom of the east face
2002/09/21	13:16:51	47.94874493	-129.09733578	2198.257	EVT	294.640	3.460	still looking for diffuse flow or basalt at base, all appears to be fallen over sulfides
2002/09/21	13:18:02	47.94874340	-129.09733204	2199.246	EVT	298.010	2.430	ruble at the bottom obviously sulfides with pyrite
2002/09/21	13:20:04	47.94876585	-129.09731400	2199.307	EVT	298.190	2.200	no basalt found near base, ready for transit.
2002/09/21	13:21:37	47.94878631	-129.09729693	2199.301	EVT	298.240	1.170	looking for enough sediment to do a push core before we leave.

Event log: LEXEN 2002
Dive J2-011

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/21	13:24:05	47.94881336	-129.09731766	2198.528	EVT	289.230	1.590	does not look like there is enough sediment for a pushcore
2002/09/21	13:26:10	47.94876724	-129.09744498	2172.079	EVT	152.120	21.090	headed off to pick up the thermal sombrero
2002/09/21	13:33:31	47.94867467	-129.09692387	2100.297	EVT	106.710	30.000	Tom Crook predicts medea getting in position over ther thermal blanket at 7:00
2002/09/21	14:13:20	47.94886645	-129.09258568	2108.365	EVT	66.900	10.060	thermal blanket in site
2002/09/21	14:16:27	47.94890596	-129.09251920	2113.307	EVT	69.670	0.900	picking up thermal blanket
2002/09/21	14:17:40	47.94890479	-129.09252356	2112.974	EVT	66.320	1.130	dropped alvin weight first, then picked up blanket
2002/09/21	14:22:16	47.94891975	-129.09237451	2106.046	EVT	110.380	6.410	thermal blanket tether clipped into snaphook on basket
2002/09/21	14:34:37	47.94886637	-129.09194701	2090.386	EVT	89.030	25.450	waiting for bridge to maneuver ship before we can head over to the elevator to ensure its release
2002/09/21	15:06:33	47.94789514	-129.09324282	2090.474	EVT	234.190	30.000	moving towards the elevator
2002/09/21	15:24:26	47.94719164	-129.09412074	2090.311	EVT	84.020	30.000	Elevator has left the bottom
2002/09/21	15:25:11	47.94722404	-129.09401520	2088.379	EVT	76.020	30.000	preparing to leave bottom;- giving elevator a head start
2002/09/21	15:25:55	47.94724689	-129.09403196	2075.111	EVT	71.670	30.000	
2002/09/21	15:26:28	47.94726886	-129.09401695	2062.180	EVT	77.490	30.000	elevator rising 26m/min. prev was 30-40. seems over-weighted
2002/09/21	15:27:55	47.94729006	-129.09421026	2027.285	EVT	79.060	30.000	starting up with Jason 2
2002/09/21	15:28:17	47.94729387	-129.09425493	2017.919	EVT	79.140	30.000	starti
2002/09/21	15:28:43	47.94729881	-129.09431500	2007.108	EVT	80.410	30.000	vehicle starting up-
2002/09/21	16:28:49	47.94690867	-129.09661541	498.191	EVT	336.170	30.000	
2002/09/21	16:39:11	47.94690867	-129.09661541	257.707	EVT	36.360	30.000	Elevator is going DOWN
2002/09/21	16:39:32	47.94690867	-129.09661541	257.727	EVT	42.790	30.000	Jason stopped. trying to figure out whats up with the Elevator
2002/09/21	16:40:50	47.94690867	-129.09661541	257.905	EVT	50.140	30.000	
2002/09/21	16:44:52	47.94690867	-129.09661541	257.843	EVT	69.360	30.000	False alarm-elevator is now on the surface
2002/09/21	16:45:59	47.94690867	-129.09661541	235.020	EVT	80.010	30.000	Jason now continuing up..
2002/09/21	16:48:03	47.94690867	-129.09661541	186.067	EVT	96.840	30.000	
2002/09/21	17:23:04	47.94690867	-129.09661541	62.217	EVT	310.660	30.000	elevator on deck
2002/09/21	17:23:16	47.94690867	-129.09661541	62.272	EVT	308.680	30.000	elevator
2002/09/21	17:23:39	47.94690867	-129.09661541	62.361	EVT	307.390	30.000	elevator on deck
2002/09/21	17:24:50	47.94690867	-129.09661541	62.539	EVT	297.400	30.000	winch control transferred
2002/09/21	17:30:19	47.94690867	-129.09661541	63.771	EVT	240.770	30.000	64
2002/09/21	17:30:31	47.94690867	-129.09661541	63.435	EVT	225.430	30.000	64 meters, coming up slow
2002/09/21	17:33:43	47.94690867	-129.09661541	1.233	EVT	199.060	30.000	Jason on surface
2002/09/21	17:35:18	47.94690867	-129.09661541	0.260	EVT	206.410	30.000	media on deck
2002/09/21	17:40:22	47.94690867	-129.09661541	0.185	EVT	330.050	30.000	power off
2002/09/21	17:40:40	47.94690867	-129.09661541	0.185	EVT	330.050	30.000	end of lowering
2002/09/21	17:40:45	47.94690867	-129.09661541	0.185	EVT	330.050	30.000	vehicle on deck

Event log: LEXEN 2002
Dive J2-012

Date	Time	Dec. Lat.	Dec. Long.	Depth	Head.	Alt.	Description
2002/09/22	00:06:32	47.89390000	-129.16450000	0.000 EVT	0.000	0.000	Pre dive complete
2002/09/22	01:14:27	47.94686661	-129.09670546	16.893 EVT	223.530	30.000	17 meters
2002/09/22	01:17:34	47.94701348	-129.09636563	52.030 EVT	217.100	30.000	40 meters out
2002/09/22	01:20:33	47.94692593	-129.09659977	59.814 EVT	210.330	30.000	blank-text
2002/09/22	01:25:56	47.94718889	-129.09674967	192.594 EVT	187.280	30.000	blank-text
2002/09/22	01:29:04	47.94769519	-129.09675781	294.779 EVT	166.020	30.000	blank-text
2002/09/22	01:29:04	47.94769795	-129.09675813	294.779 EVT	166.040	30.000	blank-text
2002/09/22	01:29:32	47.94776973	-129.09676430	310.403 EVT	167.050	30.000	giant mucosal thing just went by
2002/09/22	01:30:58	47.94799859	-129.09682968	358.028 EVT	165.580	30.000	blank-text
2002/09/22	01:31:03	47.94800848	-129.09683148	360.194 EVT	165.980	30.000	blank-text
2002/09/22	01:31:10	47.94802471	-129.09683529	363.783 EVT	167.220	30.000	blank-text
2002/09/22	01:31:21	47.94805479	-129.09683889	370.216 EVT	166.180	30.000	long-antennae
2002/09/22	01:32:47	47.94828582	-129.09689606	416.555 EVT	165.420	30.000	blank-text
2002/09/22	01:32:53	47.94829947	-129.09690313	419.261 EVT	164.540	30.000	salp
2002/09/22	01:33:19	47.94835648	-129.09691204	434.206 EVT	163.790	30.000	blank-text
2002/09/22	01:33:25	47.94836870	-129.09691669	437.227 EVT	161.050	30.000	squid
2002/09/22	01:33:40	47.94840314	-129.09693553	445.433 EVT	158.040	30.000	blank-text
2002/09/22	01:34:12	47.94848090	-129.09697380	463.602 EVT	161.080	30.000	blank-text
2002/09/22	01:34:13	47.94848090	-129.09697380	463.602 EVT	161.080	30.000	blank-text
2002/09/22	01:34:23	47.94850168	-129.09697995	468.801 EVT	158.270	30.000	SQUID
2002/09/22	01:35:01	47.94859271	-129.09702948	490.185 EVT	157.110	30.000	two grabs back (with ink blob following)
2002/09/22	01:35:45	47.94868399	-129.09706045	513.711 EVT	157.530	30.000	blank-text
2002/09/22	01:35:55	47.94870786	-129.09706942	519.292 EVT	157.090	30.000	ink
2002/09/22	01:36:09	47.94873778	-129.09708647	527.167 EVT	155.290	30.000	another squid, two grabs back
2002/09/22	01:36:40	47.94880107	-129.09710792	544.003 EVT	159.670	30.000	blank-text
2002/09/22	01:39:17	47.94910789	-129.09723508	630.122 EVT	153.760	30.000	seeing a lot of squid, salps, and ctenophores as we move through the water column
2002/09/22	01:41:55	47.94943832	-129.09733706	716.540 EVT	154.700	30.000	blank-text
2002/09/22	01:44:06	47.94976948	-129.09737127	787.389 EVT	153.150	30.000	chaetognaths?
2002/09/22	01:44:22	47.94981404	-129.09738022	795.752 EVT	155.240	30.000	blank-text
2002/09/22	01:52:28	47.95096587	-129.09748320	1055.038	EVT	151.170	30.000 blank-text
2002/09/22	02:08:47	47.95311273	-129.09803537	1571.182	EVT	158.060	30.000 Jason is in position for Lang sampler launch
2002/09/22	02:16:47	47.95439703	-129.09821988	1820.696	EVT	144.480	30.000 Lang sampler launched
2002/09/22	02:19:51	47.95470908	-129.09826894	1926.655	EVT	142.030	30.000 are we alive
2002/09/22	02:20:23	47.95474962	-129.09829792	1945.095	EVT	146.150	30.000 Steve-the event logger just stopped logging
2002/09/22	02:20:32	47.95476316	-129.09829539	1949.715	EVT	143.820	30.000 we had to stop and start it
2002/09/22	02:21:12	47.95480362	-129.09831722	1973.459	EVT	140.430	30.000 dont know why event logger on other computer
							continued to work
2002/09/22	02:35:18	47.93815197	-129.15202042	2374.523	EVT	112.100	30.000 all subsequent positions will eb wrong
2002/09/22	02:35:26	47.93815757	-129.15202490	2379.445	EVT	104.970	30.000 incorrect origin in jason topside
2002/09/22	02:35:41	47.93817545	-129.15204226	2388.599	EVT	127.080	30.000 system origin should be 47.66667 -127.8

Event log: LEXEN 2002
Dive J2-012

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/22	02:36:00	47.93821168	-129.15206379	2399.444	EVT	126.340	30.000	instead its the system origin for endeavour
2002/09/22	02:36:03	47.93822181	-129.15206687	2401.793	EVT	123.240	30.000	oops
2002/09/22	02:39:01	47.93810320	-129.15247877	2445.840	EVT	203.770	30.000	blank-text
2002/09/22	02:48:33	47.93897676	-129.15310529	2445.515	EVT	330.710	30.000	150 meters above bottom
2002/09/22	03:14:30	47.93929183	-129.15319001	2467.816	EVT	77.620	30.000	Lang sampler is on the bottom nav target 60 depth
2618 meters								
2002/09/22	03:25:58	47.93955746	-129.15339441	2544.982	EVT	78.980	30.000	virtual van navigation is incorrect for the entire dive
2002/09/22	03:29:37	47.93952390	-129.15350660	2626.691	EVT	80.150	2.010	bottom in sight
2002/09/22	03:33:15	47.93953700	-129.15350642	2626.962	EVT	308.420	3.900	thermal blanket is on the swing arm
2002/09/22	03:36:09	47.93954217	-129.15351525	2626.881	EVT	307.650	3.280	thermal blanket site 1,deployed thermal blanket
2002/09/22	03:36:43	47.93954056	-129.15351250	2626.867	EVT	308.030	3.340	blank-text
2002/09/22	03:37:18	47.93953707	-129.15350613	2626.982	EVT	308.090	3.910	blank-text
2002/09/22	03:37:39	47.93953665	-129.15350582	2625.832	EVT	308.520	4.850	blank-text
2002/09/22	03:37:56	47.93952930	-129.15349288	2624.838	EVT	307.750	6.940	up 2 meters
2002/09/22	03:39:43	47.93951414	-129.15346828	2622.755	EVT	316.900	11.370	blank-text
2002/09/22	03:40:02	47.93949907	-129.15345428	2622.038	EVT	315.480	12.830	coming up on a wall
2002/09/22	03:42:09	47.93943988	-129.15344518	2622.079	EVT	321.730	15.100	no nav target dropped here
2002/09/22	03:44:00	47.93943920	-129.15345058	2621.991	EVT	255.520	14.220	heading 255 to Lang sampler, about 20 meters
2002/09/22	03:49:34	47.93942785	-129.15384296	2615.147	EVT	277.510	4.000	lang sampler in sight
2002/09/22	03:49:49	47.93942637	-129.15386531	2612.976	EVT	277.090	5.390	blank-text
2002/09/22	03:49:55	47.93942592	-129.15386486	2612.002	EVT	276.100	6.360	blank-text
2002/09/22	03:50:53	47.93943465	-129.15387235	2612.854	EVT	276.090	5.200	frame grabs of LANG sampler
2002/09/22	03:51:04	47.93943431	-129.15387223	2612.097	EVT	277.150	5.890	blank-text
2002/09/22	03:51:18	47.93943413	-129.15387246	2611.434	EVT	279.510	6.900	blank-text
2002/09/22	03:51:39	47.93943671	-129.15386574	2610.162	EVT	272.410	8.430	blank-text
2002/09/22	03:54:20	47.93944727	-129.15389461	2605.049	EVT	194.840	8.990	we have the lang sampler in the grasp
2002/09/22	03:55:10	47.93944549	-129.15389505	2598.915	EVT	217.830	16.530	video tapes were turned on at 03:30
2002/09/22	03:58:45	47.93938098	-129.15389210	2590.081	EVT	217.390	28.250	we will go 25 m west to probes
2002/09/22	03:59:12	47.93938105	-129.15389213	2590.075	EVT	217.430	27.920	The offset in navigation is being determined.
2002/09/22	04:01:01	47.93939191	-129.15400239	2589.872	EVT	268.120	25.010	nav target 17 is the summit
2002/09/22	04:02:13	47.93939490	-129.15401720	2590.217	EVT	266.370	24.970	blank-text
2002/09/22	04:02:15	47.93939611	-129.15401781	2589.960	EVT	268.740	25.760	blank-text
2002/09/22	04:02:19	47.93939299	-129.15401383	2590.176	EVT	268.880	25.930	blank-text
2002/09/22	04:02:39	47.93939076	-129.15402029	2590.535	EVT	268.370	24.150	blank-text
2002/09/22	04:02:40	47.93939069	-129.15401987	2590.244	EVT	268.010	24.750	blank-text
2002/09/22	04:02:45	47.93939125	-129.15401708	2589.966	EVT	268.230	24.270	blank-text
2002/09/22	04:03:01	47.93939474	-129.15401924	2590.650	EVT	270.810	23.430	blank-text
2002/09/22	04:03:14	47.93939413	-129.15401810	2589.885	EVT	270.410	24.180	cerate or finned octopus
2002/09/22	04:03:20	47.93939251	-129.15401664	2589.953	EVT	258.030	23.560	blank-text
2002/09/22	04:03:44	47.93938164	-129.15401322	2590.190	EVT	230.870	21.920	frame grabs are of the octopus
2002/09/22	04:03:54	47.93936744	-129.15401807	2590.359	EVT	226.580	21.400	blank-text

Event log: LEXEN 2002

Dive J2-012

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/22	04:03:58	47.93936223	-129.15402036	2590.298	EVT	225.140	21.530	blank-text
2002/09/22	04:04:01	47.93935881	-129.15402243	2590.237	EVT	223.650	21.470	blank-text
2002/09/22	04:04:08	47.93935210	-129.15402684	2590.115	EVT	211.810	20.990	blank-text
2002/09/22	04:04:26	47.93933477	-129.15404245	2590.190	EVT	196.400	19.060	we are trying to bag the 'pus
2002/09/22	04:04:59	47.93927735	-129.15404209	2591.028	EVT	178.290	18.800	it may be in a defensive posture
2002/09/22	04:05:22	47.93925330	-129.15402627	2590.250	EVT	178.590	20.610	the octopus got below us
2002/09/22	04:05:48	47.93923721	-129.15401372	2587.051	EVT	178.030	23.720	first one that has been seen here in 2 years.
2002/09/22	04:10:33	47.93946836	-129.15405650	2591.231	EVT	340.710	12.440	bottom is rising, all stop, marker 23
2002/09/22	04:12:10	47.93946806	-129.15405632	2591.285	EVT	340.500	12.440	marker 46 uw ocean
2002/09/22	04:12:51	47.93949939	-129.15407283	2587.910	EVT	340.340	15.240	marker 46 is probe 4
2002/09/22	04:14:07	47.93952130	-129.15408457	2585.414	EVT	335.920	16.300	marker 46 again
2002/09/22	04:15:03	47.93956122	-129.15411123	2585.658	EVT	336.660	15.760	mav seen
2002/09/22	04:18:39	47.93957800	-129.15414436	2591.793	EVT	337.950	6.640	pipet mav on the left called pipe 3
2002/09/22	04:19:21	47.93957274	-129.15413934	2593.829	EVT	337.370	4.890	Lang sampler dropped near probe 4
2002/09/22	04:19:55	47.93956458	-129.15412427	2594.931	EVT	335.080	4.160	it was dropped RIGHT ON THE PIPE!
2002/09/22	04:20:01	47.93956784	-129.15412603	2594.579	EVT	335.220	4.550	blank-text
2002/09/22	04:21:06	47.93958307	-129.15414183	2591.542	EVT	342.280	6.910	Before we attach the Lang sampler, we need to fire a
major in each probe.								
2002/09/22	04:21:43	47.93958576	-129.15414509	2591.509	EVT	342.020	7.080	Getting ready to move the Lang sampler off the pipe.
2002/09/22	04:24:27	47.93956117	-129.15414349	2592.733	EVT	352.850	6.480	blank-text
2002/09/22	04:26:11	47.93958286	-129.15416314	2597.542	EVT	34.200	1.500	preparing to take a major at probe 4
2002/09/22	04:26:40	47.93958342	-129.15416160	2597.589	EVT	34.940	1.690	blank-text
2002/09/22	04:26:43	47.93958350	-129.15416147	2597.562	EVT	34.960	1.660	blank-text
2002/09/22	04:26:50	47.93958360	-129.15416088	2597.501	EVT	34.950	1.610	still shimmery water coming out of top
2002/09/22	04:27:18	47.93958411	-129.15415953	2597.569	EVT	34.960	1.650	shimmery water looks like it is going down
2002/09/22	04:28:41	47.93958488	-129.15415266	2597.636	EVT	34.380	1.610	taking an icl temp of the pipe
2002/09/22	04:31:39	47.93958467	-129.15414652	2597.542	EVT	34.140	1.620	bkgrnd=2.1; probe4=?; Matt called ICL dirty names
that do not bare repeating.								
2002/09/22	04:32:29	47.93958480	-129.15414663	2597.589	EVT	34.060	1.640	probe4=18.9 degrees, pretty steady. High of 19.1.
2002/09/22	04:37:36	47.93958661	-129.15414050	2597.576	EVT	34.790	1.690	firing yellow major #4
2002/09/22	04:38:12	47.93958615	-129.15414191	2597.630	EVT	34.670	1.660	major 4 being fired at probe4; icl temp =18.9degrees
2002/09/22	04:43:35	47.93957846	-129.15417976	2597.596	EVT	34.860	1.690	we have confirmed shimmery water coming out of
major exhaust. triggering major #4								
2002/09/22	04:44:08	47.93957766	-129.15418335	2597.528	EVT	34.830	1.640	spoke too soon. trigger is mis-aligned
2002/09/22	04:44:35	47.93957755	-129.15418244	2597.691	EVT	34.780	1.660	now we have triggered major #4 at probe site 4\
2002/09/22	04:46:45	47.93957822	-129.15417722	2597.664	EVT	34.890	1.670	major 4 has completed firing
2002/09/22	04:49:04	47.93957850	-129.15417755	2597.751	EVT	35.950	1.660	major 4 stored. we are now going to put the lang
sampler intake over probe 4								
2002/09/22	04:53:49	47.93958227	-129.15414414	2595.242	EVT	352.510	3.400	blank-text
2002/09/22	04:57:24	47.93957438	-129.15415464	2595.797	EVT	352.190	2.980	blank-text
2002/09/22	04:57:52	47.93957018	-129.15416259	2596.419	EVT	352.130	2.590	moving to probe iwth lang sampler

Event log: LEXEN 2002**Dive J2-012**

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/22	04:58:36	47.93957482	-129.15416879	2596.940	EVT	352.650	2.120	at probe with lang sampler atach
2002/09/22	04:59:05	47.93957434	-129.15417454	2597.758	EVT	353.530	1.410	getting ready to plug
2002/09/22	05:00:18	47.93957467	-129.15417712	2597.677	EVT	351.640	1.370	blank-text
2002/09/22	05:00:26	47.93957463	-129.15417713	2597.758	EVT	351.480	1.370	placing lang sampler over probe
2002/09/22	05:00:33	47.93957469	-129.15417716	2597.711	EVT	351.510	1.370	pluggerd in
2002/09/22	05:00:38	47.93957460	-129.15417714	2597.751	EVT	351.640	1.380	shimmering water
2002/09/22	05:00:42	47.93957458	-129.15417699	2597.758	EVT	351.550	1.380	blank-text
2002/09/22	05:00:52	47.93957464	-129.15417708	2597.779	EVT	351.260	1.390	blank-text
2002/09/22	05:01:01	47.93957495	-129.15417773	2597.704	EVT	350.690	1.410	in contact
2002/09/22	05:01:10	47.93957539	-129.15417846	2597.907	EVT	351.500	1.410	big zoom out
2002/09/22	05:01:14	47.93957599	-129.15417889	2597.745	EVT	350.710	1.360	blank-text
2002/09/22	05:01:32	47.93957741	-129.15418173	2597.812	EVT	352.270	1.320	blank-text
2002/09/22	05:01:34	47.93957737	-129.15418167	2597.833	EVT	352.130	1.300	blank-text
2002/09/22	05:01:37	47.93957736	-129.15418168	2597.812	EVT	351.870	1.410	intake fell off
2002/09/22	05:01:46	47.93957739	-129.15418159	2597.826	EVT	351.490	1.310	oops it fell off
2002/09/22	05:01:55	47.93957738	-129.15418158	2597.799	EVT	351.630	1.310	try again
2002/09/22	05:02:04	47.93957724	-129.15418157	2597.860	EVT	351.560	1.300	blank-text
2002/09/22	05:02:17	47.93957764	-129.15418274	2597.887	EVT	351.200	1.290	it's back on
2002/09/22	05:03:10	47.93958002	-129.15418489	2597.779	EVT	351.980	1.330	trying to push it on so it won't come back out
2002/09/22	05:03:17	47.93958002	-129.15418514	2597.718	EVT	352.990	1.340	oops that didn't work
2002/09/22	05:04:57	47.93958076	-129.15418201	2597.799	EVT	44.010	1.830	trying again
2002/09/22	05:05:04	47.93958067	-129.15418192	2597.812	EVT	43.910	1.860	third time's a charm
2002/09/22	05:05:17	47.93958082	-129.15418152	2597.880	EVT	42.100	1.800	blank-text
2002/09/22	05:05:23	47.93958077	-129.15418179	2597.873	EVT	42.740	1.810	perfect
2002/09/22	05:05:31	47.93958074	-129.15418169	2597.873	EVT	42.630	1.810	lang sampler attached to probe4
2002/09/22	05:05:50	47.93958071	-129.15418231	2597.826	EVT	42.630	1.830	blank-text
2002/09/22	05:06:07	47.93958092	-129.15418242	2597.860	EVT	42.820	1.820	testing stability of connection to probe
2002/09/22	05:06:14	47.93958101	-129.15418240	2597.839	EVT	42.780	1.840	looks pretty secure
2002/09/22	05:06:23	47.93958106	-129.15418272	2597.894	EVT	42.780	1.760	blank-text
2002/09/22	05:06:30	47.93958105	-129.15418301	2597.833	EVT	42.780	1.830	blank-text
2002/09/22	05:06:31	47.93958106	-129.15418307	2597.812	EVT	42.790	1.820	blank-text
2002/09/22	05:06:37	47.93958099	-129.15418342	2597.880	EVT	42.780	1.810	blank-text
2002/09/22	05:06:42	47.93958098	-129.15418370	2597.880	EVT	42.790	1.810	blank-text
2002/09/22	05:06:55	47.93958072	-129.15418429	2597.792	EVT	42.800	1.810	blank-text
2002/09/22	05:06:58	47.93958071	-129.15418433	2597.900	EVT	42.810	1.770	blank-text
2002/09/22	05:07:04	47.93958069	-129.15418476	2597.894	EVT	42.810	1.810	blank-text
2002/09/22	05:07:05	47.93958068	-129.15418489	2597.880	EVT	42.800	1.810	blank-text
2002/09/22	05:07:07	47.93958067	-129.15418503	2597.853	EVT	42.800	1.810	blank-text
2002/09/22	05:07:52	47.93957766	-129.15418981	2596.669	EVT	48.250	3.470	blank-text
2002/09/22	05:07:52	47.93957766	-129.15418981	2596.669	EVT	48.250	3.470	blank-text
2002/09/22	05:08:03	47.93957743	-129.15419131	2597.407	EVT	54.910	2.780	blank-text

Event log: LEXEN 2002

Dive J2-012

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/22	05:08:06	47.93957780	-129.15419162	2597.413	EVT	54.880	2.680	we're done here. everything looks good
2002/09/22	05:08:25	47.93957787	-129.15419152	2597.251	EVT	60.340	3.000	blank-text
2002/09/22	05:08:27	47.93957775	-129.15419123	2597.339	EVT	60.290	2.910	blank-text
2002/09/22	05:08:33	47.93957780	-129.15419100	2597.474	EVT	60.650	2.910	blank-text
2002/09/22	05:08:49	47.93957495	-129.15419822	2596.676	EVT	60.610	4.060	bye-bye lang sampler. see you in a year
2002/09/22	05:08:55	47.93957484	-129.15419840	2596.595	EVT	60.500	4.200	blank-text
2002/09/22	05:09:41	47.93959006	-129.15421157	2596.446	EVT	58.280	4.520	we are now heading to probe 3 to take a major
2002/09/22	05:11:35	47.93961367	-129.15428383	2596.446	EVT	62.580	6.600	we are also going to recover billy moore's thermal
	dagger							
2002/09/22	05:11:58	47.93961350	-129.15428347	2596.480	EVT	62.410	6.460	blank-text
2002/09/22	05:12:21	47.93961344	-129.15428316	2596.439	EVT	56.680	6.490	blank-text
2002/09/22	05:12:34	47.93961239	-129.15428457	2596.548	EVT	57.360	6.250	prev grab was thermal dagger
2002/09/22	05:13:21	47.93959762	-129.15424875	2599.084	EVT	35.860	2.680	we are going to be sampling out of the butt of the
	pipe mav							
2002/09/22	05:13:33	47.93959791	-129.15424317	2599.463	EVT	15.070	1.600	blank-text
2002/09/22	05:13:33	47.93959791	-129.15424317	2599.463	EVT	15.070	1.600	blank-text
2002/09/22	05:14:18	47.93959937	-129.15424264	2599.794	EVT	16.750	1.280	lots of exhaust that seems like it is flowing downhill
2002/09/22	05:14:39	47.93959974	-129.15424168	2599.571	EVT	16.830	1.250	blank-text
2002/09/22	05:14:42	47.93959970	-129.15424174	2599.679	EVT	16.850	1.260	but maybe that's just an illusion
2002/09/22	05:15:24	47.93959939	-129.15424211	2599.733	EVT	16.660	1.250	now the consensus is that it's the current coming
	down the hill							
2002/09/22	05:15:27	47.93959936	-129.15424211	2599.659	EVT	16.540	1.230	blank-text
2002/09/22	05:15:42	47.93959954	-129.15424151	2599.699	EVT	16.420	1.200	taking an icl of the butt of the pipe mav attached to
	probe 3							
2002/09/22	05:16:43	47.93959843	-129.15424377	2599.754	EVT	16.440	1.240	blank-text
2002/09/22	05:17:54	47.93959785	-129.15424471	2599.747	EVT	16.620	1.220	blank-text
2002/09/22	05:18:03	47.93959774	-129.15424501	2599.679	EVT	16.630	1.230	icl is in pipe mav butt
2002/09/22	05:18:10	47.93959770	-129.15424511	2599.733	EVT	16.640	1.240	no link yet
2002/09/22	05:19:04	47.93959928	-129.15424013	2599.733	EVT	16.480	1.200	temp from probe 3 (through pipe mav butt)=16.6
2002/09/22	05:20:03	47.93959913	-129.15424069	2599.726	EVT	16.570	1.230	that's a brittle star on the pipe mav by the way
2002/09/22	05:23:06	47.93959987	-129.15423759	2599.747	EVT	16.650	1.250	going to take major #11 out of butt of pipe mav
	attached to probe 3							
2002/09/22	05:26:53	47.93959692	-129.15424515	2600.166	EVT	32.390	1.440	blank-text
2002/09/22	05:26:55	47.93959693	-129.15424520	2599.983	EVT	32.370	1.440	blank-text
2002/09/22	05:27:11	47.93959685	-129.15424583	2600.098	EVT	32.380	1.440	trying to insert major at a different angel
2002/09/22	05:27:26	47.93959672	-129.15424605	2599.983	EVT	32.420	1.440	blank-text
2002/09/22	05:27:43	47.93959639	-129.15424717	2600.017	EVT	32.440	1.470	major inserted
2002/09/22	05:28:58	47.93959563	-129.15424963	2600.031	EVT	32.520	1.470	blank-text
2002/09/22	05:30:26	47.93959564	-129.15425130	2600.098	EVT	32.690	1.460	we are triggering major 11
2002/09/22	05:32:03	47.93959526	-129.15425094	2600.071	EVT	32.710	1.470	major 11 fired in pipe mav's butt which is attached to
	probe3							

Event log: LEXEN 2002
Dive J2-012

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/22	05:35:34	47.93959513	-129.15424960	2600.220	EVT	34.280	1.460	we are now going to go pick up billy moore's thermal dagger which is right next to marker 47
2002/09/22	05:37:19	47.93963086	-129.15425321	2599.192	EVT	48.140	2.130	blank-text
2002/09/22	05:37:25	47.93963030	-129.15425176	2599.571	EVT	46.840	1.530	blank-text
2002/09/22	05:37:50	47.93963052	-129.15425240	2599.611	EVT	48.190	1.700	blank-text
2002/09/22	05:37:51	47.93963052	-129.15425240	2599.611	EVT	48.190	1.700	blank-text
2002/09/22	05:38:37	47.93963075	-129.15425272	2599.456	EVT	48.080	1.690	four of the temp probes are in the water; one is at the sed/water interface.
2002/09/22	05:38:58	47.93963001	-129.15425363	2599.503	EVT	48.010	1.690	only two of the temp probes are below the sed surface
2002/09/22	05:39:29	47.93963026	-129.15425476	2599.469	EVT	47.940	1.680	blank-text
2002/09/22	05:39:30	47.93963019	-129.15425489	2599.537	EVT	47.920	1.680	blank-text
2002/09/22	05:39:35	47.93963024	-129.15425513	2599.564	EVT	47.780	1.710	blank-text
2002/09/22	05:40:37	47.93962939	-129.15425652	2599.571	EVT	47.710	1.730	thermal dagger has been recovered
2002/09/22	05:41:44	47.93962924	-129.15425483	2599.557	EVT	47.800	1.660	next we are going to the elevator and bringing it to the bent probes to recover them
2002/09/22	05:42:30	47.93962387	-129.15426135	2598.428	EVT	45.090	2.910	nix that. we aer going to the first bent probe which is just south of us to try and pick it up and bring it to the elevator
2002/09/22	05:46:47	47.93955706	-129.15438690	2601.431	EVT	45.490	5.670	blank-text
2002/09/22	05:46:48	47.93955654	-129.15438754	2601.485	EVT	45.450	6.090	blank-text
2002/09/22	05:46:55	47.93955324	-129.15439234	2601.451	EVT	45.340	6.100	prev grab was fish
2002/09/22	05:50:57	47.93948085	-129.15444385	2603.433	EVT	113.690	7.520	looking for probe 5. foud bucket
2002/09/22	05:51:01	47.93948078	-129.15444382	2603.467	EVT	113.270	7.580	blank-text
2002/09/22	06:00:10	47.93945285	-129.15433114	2603.365	EVT	64.230	3.510	we think we have found probe 6 (5?) and are going to go over to try and pick it up to bring back to the elevator
2002/09/22	06:01:32	47.93944655	-129.15424919	2603.690	EVT	14.610	30.000	blank-text
2002/09/22	06:03:06	47.93944501	-129.15425310	2603.697	EVT	14.170	0.730	it is probe 6
2002/09/22	06:03:12	47.93944504	-129.15425313	2603.683	EVT	14.160	0.730	placing probe 6 in basket
2002/09/22	06:08:33	47.93951027	-129.15426407	2599.611	EVT	49.640	5.010	we have spotted probe 5
2002/09/22	06:13:11	47.93954321	-129.15421518	2600.667	EVT	26.180	1.390	getting rid of weight
2002/09/22	06:13:56	47.93954365	-129.15421532	2600.687	EVT	26.750	1.360	weight dropped
2002/09/22	06:14:49	47.93954346	-129.15421547	2600.633	EVT	27.020	1.320	moved probe 6 further up the basket
2002/09/22	06:15:05	47.93954343	-129.15421545	2600.667	EVT	27.250	1.340	picking up probe 5
2002/09/22	06:17:57	47.93954760	-129.15421018	2600.335	EVT	357.580	0.880	blank-text
2002/09/22	06:18:29	47.93954702	-129.15421392	2600.200	EVT	358.310	1.050	pickin it up
2002/09/22	06:18:39	47.93954715	-129.15421483	2600.355	EVT	357.570	0.920	slipped out
2002/09/22	06:18:55	47.93954828	-129.15421521	2600.288	EVT	357.170	0.850	dropped again
2002/09/22	06:18:56	47.93954822	-129.15421506	2600.308	EVT	357.420	0.830	prob head in basket
2002/09/22	06:19:41	47.93954709	-129.15421404	2600.389	EVT	357.950	0.990	probe head looks worse for wear
2002/09/22	06:20:23	47.93953413	-129.15423801	2595.107	EVT	358.810	7.800	got both probes now, heading to elevator
2002/09/22	06:21:21	47.93949142	-129.15429415	2591.387	EVT	6.160	14.330	blank-text

Event log: LEXEN 2002
Dive J2-012

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/22	06:29:33	47.93958178	-129.15474040	2592.043	EVT	121.740	21.510	spotted something with medea cam
2002/09/22	06:29:45	47.93958778	-129.15474535	2594.119	EVT	124.460	18.730	going down - is it lang sampler or elevator?
2002/09/22	06:30:17	47.93955361	-129.15473498	2602.459	EVT	131.500	12.880	approaching elevator
2002/09/22	06:30:55	47.93951248	-129.15469354	2612.827	EVT	124.580	5.070	arrived at elevator
2002/09/22	06:31:28	47.93949977	-129.15467954	2613.916	EVT	124.970	4.320	put down probe 5
2002/09/22	06:31:58	47.93950177	-129.15466420	2613.104	EVT	129.770	4.650	probe 6 bounced off basket and down to floor
2002/09/22	06:32:00	47.93950210	-129.15466433	2613.199	EVT	128.990	4.350	positioning to hoist beautifully- organically twisted
								pipe onto elevator..
2002/09/22	06:32:39	47.93950360	-129.15467012	2611.677	EVT	131.160	5.720	oops- probe fell off.
2002/09/22	06:45:46	47.93952907	-129.15452912	2616.729	EVT	103.190	2.590	still trying to put probes on elevator
2002/09/22	06:49:36	47.93952981	-129.15452959	2616.804	EVT	103.560	2.420	blank-text
2002/09/22	06:49:51	47.93952974	-129.15452955	2616.838	EVT	103.250	2.430	snapped hook around bent probe base
2002/09/22	06:50:01	47.93952966	-129.15452984	2616.804	EVT	103.250	2.420	probe recovery
2002/09/22	06:50:56	47.93953295	-129.15453296	2616.067	EVT	105.420	3.460	probe recovery - probe is hooked
2002/09/22	06:54:07	47.93953972	-129.15451396	2616.243	EVT	107.040	2.040	picking up the wooden thermal dagger
2002/09/22	06:54:13	47.93953965	-129.15451373	2616.134	EVT	106.600	2.050	thermal dagger
2002/09/22	06:58:56	47.93952602	-129.15438126	2615.187	EVT	287.790	30.000	thermal dagger being placed on elevator
2002/09/22	07:01:35	47.93950767	-129.15437611	2613.639	EVT	290.580	1.230	
2002/09/22	07:06:17	47.93950322	-129.15439543	2615.600	EVT	290.790	30.000	going to bungee the thermal dagger
2002/09/22	07:26:41	47.93948769	-129.15458704	2618.542	EVT	7.810	1.530	hooking the bent probe to the elevator
2002/09/22	07:26:53	47.93948777	-129.15458724	2618.643	EVT	8.390	1.490	probe recovery
2002/09/22	07:31:44	47.93948545	-129.15454789	2617.629	EVT	22.220	1.670	having trouble removing a weight from the elevator
2002/09/22	07:32:36	47.93948482	-129.15454966	2617.609	EVT	22.760	1.650	got it
2002/09/22	07:32:57	47.93948488	-129.15454950	2617.690	EVT	23.760	1.710	elevator is tipping over
2002/09/22	07:34:41	47.93948430	-129.15455266	2617.757	EVT	23.510	1.690	attached probe
2002/09/22	07:37:38	47.93948196	-129.15455776	2617.568	EVT	23.000	1.730	moving probe wires out of the way
2002/09/22	07:38:18	47.93948169	-129.15455810	2617.548	EVT	22.980	1.550	fish
2002/09/22	07:38:25	47.93948178	-129.15455776	2617.744	EVT	22.970	1.530	fish
2002/09/22	07:38:32	47.93948169	-129.15455794	2617.737	EVT	22.960	1.550	fish under elevator
2002/09/22	07:38:44	47.93948161	-129.15455859	2617.636	EVT	23.060	1.540	fish
2002/09/22	07:39:11	47.93948142	-129.15455872	2617.622	EVT	23.120	1.610	removing a weight from the elevator
2002/09/22	07:39:16	47.93948139	-129.15455863	2617.649	EVT	23.160	1.570	fish
2002/09/22	07:39:19	47.93948138	-129.15455865	2617.636	EVT	23.130	1.580	fish
2002/09/22	07:39:36	47.93948137	-129.15455862	2617.636	EVT	23.110	1.560	closer frame grab of fish
2002/09/22	07:41:55	47.93947810	-129.15451894	2615.634	EVT	295.800	30.000	probe recovery elevator
2002/09/22	07:51:09	47.93947581	-129.15450915	2615.911	EVT	279.710	30.000	having problems getting weight off elevator
2002/09/22	08:14:46	47.93942049	-129.15458761	2618.190	EVT	332.800	30.000	probe recovery elevator
2002/09/22	08:15:09	47.93941904	-129.15458749	2618.271	EVT	332.570	30.000	moving 2nd weight on probe recovery elevator
2002/09/22	08:15:55	47.93941173	-129.15457039	2616.087	EVT	351.840	2.670	2nd weight off
2002/09/22	08:19:59	47.93942537	-129.15461541	2618.366	EVT	61.380	2.820	grabbing first weight
2002/09/22	08:20:17	47.93942365	-129.15461917	2618.069	EVT	61.810	3.420	first weight off

Event log: LEXEN 2002
Dive J2-012

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/22	08:20:39	47.93941293	-129.15464567	2615.871	EVT	61.580	7.960	first weight
2002/09/22	08:22:06	47.93941402	-129.15464386	2615.979	EVT	61.500	8.020	dropped first weight
2002/09/22	08:23:14	47.93941443	-129.15464444	2615.580	EVT	61.440	7.560	probe recovery elevator
2002/09/22	08:34:33	47.93720341	-129.15007824	2596.236	EVT	86.770	7.580	we are going to get the thermal blanket
2002/09/22	08:48:47	47.93729677	-129.14920940	2631.817	EVT	287.360	9.890	thermal blanket in view
2002/09/22	08:50:19	47.93731629	-129.14937697	2627.645	EVT	278.720	4.610	thermal blanket now in view (for real)
2002/09/22	09:16:36	47.93678880	-129.14998749	2613.375	EVT	206.860	4.100	fish
2002/09/22	09:27:42	47.93678301	-129.15008312	2616.249	EVT	207.710	30.000	thermal blanket deployed at new location
2002/09/22	09:34:05	47.93678493	-129.15008400	2616.283	EVT	210.270	30.000	moved the thermal blanket slightly
2002/09/22	09:53:03	47.93723048	-129.15016764	2599.889	EVT	323.620	5.970	we will begin our octopus hunt
2002/09/22	09:59:59	47.93778192	-129.15013381	2593.511	EVT	317.720	3.370	we found a potential octopus to catch
2002/09/22	10:00:07	47.93778256	-129.15013119	2593.362	EVT	326.400	3.600	octopus
2002/09/22	10:00:11	47.93778167	-129.15013049	2593.125	EVT	326.550	3.740	octopus
2002/09/22	10:00:15	47.93778104	-129.15013004	2592.875	EVT	326.580	3.930	octopus
2002/09/22	10:00:21	47.93778076	-129.15012945	2592.570	EVT	326.410	4.210	octopus
2002/09/22	10:00:32	47.93778020	-129.15013070	2593.876	EVT	326.590	2.860	octopus with big black eyes
2002/09/22	10:00:36	47.93778030	-129.15013051	2594.268	EVT	326.210	2.450	octopus
2002/09/22	10:01:07	47.93778194	-129.15013128	2594.890	EVT	323.980	2.060	octopus
2002/09/22	10:01:48	47.93781333	-129.15014039	2594.593	EVT	256.780	2.660	octopus
2002/09/22	10:02:11	47.93782383	-129.15014564	2594.518	EVT	236.460	2.450	octopus
2002/09/22	10:02:33	47.93782612	-129.15015217	2594.376	EVT	236.080	2.450	octopus
2002/09/22	10:03:38	47.93781517	-129.15015371	2595.093	EVT	235.000	1.450	we will try to capture this octopus
2002/09/22	10:04:03	47.93781529	-129.15015497	2595.601	EVT	233.280	0.910	"Here, octopus, octopus, octopus"
2002/09/22	10:04:13	47.93781562	-129.15015421	2595.161	EVT	232.190	1.340	we're gonna get ya
2002/09/22	10:04:18	47.93781551	-129.15015394	2595.195	EVT	232.390	1.160	octopus gotcha
2002/09/22	10:04:23	47.93781548	-129.15015404	2595.384	EVT	232.460	1.150	gotcha
2002/09/22	10:04:37	47.93781598	-129.15015532	2595.377	EVT	232.540	1.140	did we squish it?
2002/09/22	10:04:55	47.93781584	-129.15015570	2595.371	EVT	232.660	1.180	tenticles flying everywhere
2002/09/22	10:05:00	47.93781578	-129.15015535	2595.283	EVT	233.350	1.170	octopus
2002/09/22	10:05:04	47.93781576	-129.15015509	2595.344	EVT	233.500	1.150	octopus
2002/09/22	10:05:10	47.93781576	-129.15015464	2595.377	EVT	233.270	1.150	bye bye
2002/09/22	10:05:24	47.93781563	-129.15015442	2594.992	EVT	234.630	1.450	"I'm outta here" - octopus
2002/09/22	10:06:03	47.93781594	-129.15015585	2592.855	EVT	251.470	3.990	Janet says that octopus get tired quickly so maybe
	we'll get it later							
2002/09/22	10:07:38	47.93790060	-129.15020962	2594.897	EVT	304.340	2.620	we have another potential octopus to grab
2002/09/22	10:07:46	47.93790364	-129.15021243	2595.993	EVT	297.340	1.770	let get it
2002/09/22	10:08:03	47.93790719	-129.15022133	2596.622	EVT	299.850	1.160	we will try to catch it
2002/09/22	10:08:42	47.93790646	-129.15021844	2596.527	EVT	304.830	1.030	getting out the net
2002/09/22	10:08:57	47.93790629	-129.15021825	2596.439	EVT	304.470	1.040	octopus catching
2002/09/22	10:09:02	47.93790620	-129.15021796	2596.507	EVT	304.400	1.100	octopus
2002/09/22	10:09:07	47.93790584	-129.15021723	2596.412	EVT	304.390	1.090	octopus

Event log: LEXEN 2002
Dive J2-012

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/22	10:09:19	47.93790593	-129.15021647	2596.460	EVT	304.310	1.090	octopus - got him
2002/09/22	10:09:27	47.93790580	-129.15021557	2596.304	EVT	304.160	1.090	octopus in net
2002/09/22	10:10:41	47.93790287	-129.15021100	2596.412	EVT	304.210	1.160	How will we open the bio-box while holding the net?
2002/09/22	10:11:07	47.93790338	-129.15021200	2596.419	EVT	302.060	1.100	bio box
2002/09/22	10:12:08	47.93790268	-129.15021163	2596.351	EVT	302.350	1.220	DOH! the octopus escaped from the net when we weren't looking
2002/09/22	10:12:50	47.93790357	-129.15021274	2596.291	EVT	302.040	1.210	using other arm to open bio box
2002/09/22	10:16:18	47.93790044	-129.15020945	2596.405	EVT	301.220	1.190	allright, back to the octopus hunt
2002/09/22	10:19:28	47.93787959	-129.15037409	2589.527	EVT	184.630	4.580	we see another octopus
2002/09/22	10:19:51	47.93789886	-129.15040238	2590.230	EVT	187.270	4.170	this is so much fun
2002/09/22	10:20:31	47.93784874	-129.15043818	2591.366	EVT	187.890	2.470	octopus close up
2002/09/22	10:21:33	47.93782172	-129.15043927	2592.158	EVT	187.360	0.940	in the shadow of our net
2002/09/22	10:21:57	47.93783247	-129.15043759	2592.016	EVT	187.510	1.420	reaching out to catch it
2002/09/22	10:22:20	47.93782968	-129.15043776	2592.016	EVT	186.970	1.360	moving in
2002/09/22	10:22:32	47.93782602	-129.15043989	2592.198	EVT	187.990	1.000	closer to octopus
2002/09/22	10:22:43	47.93782546	-129.15043901	2592.056	EVT	186.770	1.000	"Go for it" - Janet
2002/09/22	10:23:04	47.93781987	-129.15044500	2592.455	EVT	198.420	0.780	octopus making a run for it
2002/09/22	10:23:27	47.93781775	-129.15045159	2592.455	EVT	198.230	30.000	octopus
2002/09/22	10:23:34	47.93781890	-129.15044844	2592.408	EVT	198.220	30.000	octopus swimming
2002/09/22	10:23:47	47.93782180	-129.15044092	2592.408	EVT	198.220	30.000	right into the net
2002/09/22	10:23:50	47.93782207	-129.15043968	2592.503	EVT	198.220	30.000	octopus
2002/09/22	10:23:55	47.93782255	-129.15043892	2592.408	EVT	197.730	0.770	blank-text
2002/09/22	10:24:25	47.93782392	-129.15043568	2592.449	EVT	196.090	0.760	octopus look at it go!
2002/09/22	10:25:39	47.93780452	-129.15045939	2591.191	EVT	197.490	1.680	that octopus looks like it might be a female
2002/09/22	10:25:48	47.93780531	-129.15046483	2591.089	EVT	197.890	1.740	octopus guarding eggs?
2002/09/22	10:25:54	47.93780824	-129.15046422	2591.035	EVT	198.020	1.920	octopus with eggs
2002/09/22	10:26:01	47.93781199	-129.15046211	2590.764	EVT	197.940	2.200	octopus close up
2002/09/22	10:26:49	47.93779229	-129.15043856	2589.371	EVT	197.440	3.490	this is octopus country, we see another one
2002/09/22	10:29:13	47.93767299	-129.15021153	2590.629	EVT	261.370	4.650	we spot another octopus
2002/09/22	10:30:32	47.93766639	-129.15024793	2593.274	EVT	262.980	1.380	close up of octopus
2002/09/22	10:30:39	47.93766666	-129.15024863	2593.281	EVT	263.140	1.320	close up of octopus
2002/09/22	10:30:56	47.93766697	-129.15024930	2593.734	EVT	263.150	0.990	close up of octopus
2002/09/22	10:31:20	47.93766654	-129.15024844	2593.551	EVT	264.030	1.090	attempting to catch octopus
2002/09/22	10:32:34	47.93766651	-129.15024881	2593.436	EVT	263.740	1.150	this octopus may be really old
2002/09/22	10:32:59	47.93766704	-129.15024955	2593.477	EVT	263.540	1.100	he is caught in the net
2002/09/22	10:33:11	47.93766646	-129.15024993	2593.538	EVT	263.570	1.110	"You stay there for a minute" - Will
2002/09/22	10:33:40	47.93766613	-129.15025050	2593.416	EVT	264.000	1.110	he is all wrapped up and still trying to escape
2002/09/22	10:34:00	47.93766587	-129.15025070	2593.470	EVT	264.190	1.120	He got away!
2002/09/22	10:34:13	47.93766560	-129.15025080	2593.443	EVT	263.400	1.150	And the crowd moans in disappointment
2002/09/22	10:38:42	47.93768782	-129.15031303	2590.724	EVT	269.650	3.150	searching for another octopus
2002/09/22	10:41:20	47.93775129	-129.15006677	2594.552	EVT	303.190	4.110	what is all this white stuff?

Event log: LEXEN 2002
Dive J2-012

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/22	10:41:37	47.93777429	-129.15011981	2594.674	EVT	296.730	2.800	not octopuses
2002/09/22	10:43:55	47.93781919	-129.15034746	2591.299	EVT	282.550	2.740	see another octopus
2002/09/22	10:44:55	47.93784248	-129.15038943	2592.029	EVT	149.100	1.040	wee octopus
2002/09/22	10:45:15	47.93785112	-129.15038754	2592.117	EVT	148.380	1.330	octopus
2002/09/22	10:45:20	47.93785458	-129.15038872	2592.090	EVT	147.870	1.570	close up of octopus
2002/09/22	10:46:16	47.93783969	-129.15038107	2592.219	EVT	150.710	1.110	octopus
2002/09/22	10:46:27	47.93783770	-129.15037979	2592.489	EVT	147.760	0.940	blank-text
2002/09/22	10:46:32	47.93783705	-129.15037960	2592.428	EVT	150.160	30.000	octopus
2002/09/22	10:46:38	47.93783804	-129.15037744	2592.361	EVT	149.500	30.000	octopus
2002/09/22	10:46:54	47.93783316	-129.15037934	2592.401	EVT	149.360	0.920	attempting to get the octopus
2002/09/22	10:47:16	47.93782900	-129.15038142	2592.293	EVT	148.970	0.870	trying to get him in the net
2002/09/22	10:47:38	47.93782978	-129.15038198	2592.523	EVT	149.010	0.900	no luck
2002/09/22	11:12:17	47.93778048	-129.15014383	2595.195	EVT	221.360	1.730	octopus cited, in hot pursuit
2002/09/22	11:14:37	47.93777519	-129.15014750	2595.452	EVT	221.130	1.430	a near miss by Jim Varnum
2002/09/22	11:29:23	47.93760053	-129.15002137	2600.734	EVT	284.610	3.590	octopus on rock
2002/09/22	11:36:13	47.93749484	-129.15002944	2603.629	EVT	263.980	1.950	octopus
2002/09/22	11:36:28	47.93749397	-129.15003029	2603.460	EVT	264.630	2.200	that's kinda a funny word actually - octopus
2002/09/22	11:37:05	47.93749420	-129.15003134	2603.622	EVT	265.610	1.880	the silent hunter prepares his weapon
2002/09/22	11:37:29	47.93749430	-129.15003152	2603.670	EVT	265.520	1.920	the net approaches the prey
2002/09/22	11:38:16	47.93749403	-129.15003079	2603.595	EVT	264.790	2.050	a good catch
2002/09/22	11:38:24	47.93749408	-129.15003094	2603.717	EVT	265.240	1.950	but apparently a sandstorm is approaching
2002/09/22	11:39:13	47.93750048	-129.14996632	2599.923	EVT	263.920	8.480	the box is open - he's still in the net
2002/09/22	11:39:28	47.93750281	-129.14992844	2600.098	EVT	265.060	10.000	depositing the octo in the box
2002/09/22	11:41:24	47.93750925	-129.14987199	2600.342	EVT	265.560	12.610	we'll wait a few moments for the fifty pounds of sediment to settle out of the net
2002/09/22	11:43:49	47.93750669	-129.14991570	2600.335	EVT	266.170	10.420	maybe we don't have the octo
2002/09/22	11:47:15	47.93750421	-129.14999224	2604.603	EVT	268.150	2.400	still playing with the net
2002/09/22	11:59:07	47.93750678	-129.14999568	2603.149	EVT	265.580	3.500	for some reason the net doesn't seem to fit well in the biobox
2002/09/22	11:59:18	47.93750688	-129.14999591	2603.047	EVT	265.420	3.670	it could be due to the fifty pounds of sediment
2002/09/22	12:08:21	47.93750355	-129.15005423	2597.792	EVT	265.210	6.850	our biobox runneth over with sediment - says Willy Moore
2002/09/22	12:10:30	47.93750376	-129.15005416	2597.643	EVT	265.820	6.950	trying to put the biobox away
2002/09/22	12:16:05	47.93750106	-129.15005201	2597.474	EVT	228.750	6.030	we're off to get the thermal blanket
2002/09/22	12:34:15	47.93678946	-129.15008664	2614.024	EVT	221.390	1.860	thermal blanket in sight
2002/09/22	12:39:00	47.93675970	-129.15014094	2614.876	EVT	221.860	1.330	thermal blanket grabbed
2002/09/22	12:41:52	47.93676065	-129.15011617	2614.924	EVT	221.880	1.290	we are stowing the thermal blanket in order to move it
2002/09/22	12:46:04	47.93675356	-129.15011207	2614.863	EVT	222.240	0.900	placed the ICL in the basket
2002/09/22	12:49:41	47.93680090	-129.15004135	2614.139	EVT	11.740	2.030	blank-text
2002/09/22	12:56:29	47.93670508	-129.14995450	2613.740	EVT	304.900	4.110	changing tapes

Event log: LEXEN 2002
Dive J2-012

Date	Time	Dec. Lat.	Dec. Long.	Depth		Head.	Alt.	Description
2002/09/22	12:57:49	47.93672255	-129.14998226	2613.625	EVT	305.500	3.760	all tapes changed
2002/09/22	13:15:07	47.93711611	-129.15084457	2612.902	EVT	351.260	7.570	elevator in sight
2002/09/22	13:41:44	47.93719116	-129.15081293	2616.790	EVT	2.560	1.480	at the elevator
2002/09/22	13:43:03	47.93718984	-129.15081339	2616.770	EVT	2.750	1.250	pulling the release cord on the elevator
2002/09/22	13:43:07	47.93718999	-129.15081339	2616.811	EVT	3.290	1.260	there it goes
2002/09/22	13:43:27	47.93718885	-129.15081391	2616.662	EVT	2.710	1.510	there goes the probes
2002/09/22	13:43:40	47.93718884	-129.15081411	2616.729	EVT	2.690	1.490	elevator with probes have left the bottom
2002/09/22	13:47:49	47.93706853	-129.15073501	2613.179	EVT	4.070	3.090	we are getting rid of the elevator pull-pin
2002/09/22	14:06:12	47.93761334	-129.15186059	2248.572	EVT	322.000	30.000	GEO.general List Not Available TXT we are finished
on the bottom and will be heading up								
2002/09/22	14:06:18	47.93761334	-129.15186059	2244.581	EVT	322.170	30.000	stopping the tapes
2002/09/22	15:54:44	47.93761334	-129.15186059	60.067	EVT	222.800	30.000	elevator is on surface, waiting for recovery
2002/09/22	15:54:54	47.93761334	-129.15186059	59.869	EVT	223.040	30.000	jason at 50 m, waiting for recovery
2002/09/22	16:01:24	47.93761334	-129.15186059	58.191	EVT	228.400	30.000	elevator recovered, jason coming up
2002/09/22	16:02:41	47.93761334	-129.15186059	28.889	EVT	226.320	30.000	j2 coming up
2002/09/22	16:03:50	47.93761334	-129.15186059	2.404	EVT	225.160	30.000	jason on surface
2002/09/22	16:06:56	47.93761334	-129.15186059	0.829	EVT	261.420	30.000	recovery in proces
2002/09/22	16:09:59	47.93761334	-129.15186059	0.055	EVT	252.300	30.000	jason above water
2002/09/22	16:10:36	47.93761334	-129.15186059	0.164	EVT	252.450	30.000	jason in the air
2002/09/22	16:11:27	47.93761334	-129.15186059	0.288	EVT	278.680	30.000	jason power secure
2002/09/22	16:11:45	47.93761334	-129.15186059	0.288	EVT	278.680	30.000	jason on deck
2002/09/22	16:54:35	47.93762464	-129.15184471	0.507	EVT	347.310	30.000	last event for this cruise...Goodbye