

Local = gmt + 8

TAICRUST 1995

WATCHSTANDER'S BASIC LOG

Leg 1

J Day	gmt time	Latitude (N)	Longitude (E)	Depth (m)	Activity/status
<del>22/01</del>	7:30	25 09 0089	121 47 5033	42	Speed 7.2 N1
236	8:00	25 10 32	121 51 23	87	" 9.4
	8:32	25 09 98	121 56 56	929	" 8.9
	9:00	25 06 91	122 00 42	142	" 9.4
	9:30	25 03 57	122 04 12	190	" 9.1
	10:00	24 59 73	122 08 12	332	" 9.0
	10:32	24 56 29	122 11 829	227	
	11:12	24 59 09	122 16 24	1030	" 8.9
	11:30	24 50 1769	122 18 9489	1159	" 8.9
	12:00	24 46 7755	122 22 6067	1166	" 8.8
	12:30	24 46 090	122 25 2353	1032	" 8.4
	13:00	24 42 9996	122 29 5926	800	
	13:30	24 41 0602	122 28 9788	670	" 5.0
	13:58	GPS	shut down		
	14:06	GPS shut down		445	24 39 386 122 30 0830 Trimble Navigator
	14:11	24 39 3636	122 30 1170	415	GPS back to normal
	14:17	24 39 6405	122 30 0104	455	OBS deployed (642.17 simrad)
	14:30			442	Headed for st. 6
	15:01	24 36 6699	122 29 9896	460	
	15:30	24 33 52	122 30 011	472	
	15:53	24 34 03	122 30 011	592	
	16:00	24 30.4'	122 30.08	600	Headed for st. #6; Going against strong current
	16:30	24 27.07	122 29.97	613	"
	17:02	24 23.35	122 30.10	686	Speed 6.3
	17:33	24 19.66	122 30.00	465	Speed 8.1
	17:51	24 17.90	122 29.78	293	Deployed st. 6 OBS; Now head for st. #7
	18:00	24 17.45'	122 30.09'	343	Headed for st. 7

OBS →  
deployed

OBS →  
6

local = gmt + 8

TAICRUST 1995

WATCHSTANDER'S BASIC LOG

Leg 1

J Day	gmt time	Latitude	Longitude	Depth (m)	Activity/status
	18:30	24 13.93	122 29.99	911	Speed 6.5
236	19:00	24 10.35	122 30.00	1560	
	19:30	24 6.73	122 30.08	2600	Speed 9.0
	20:00	24 3.28	122 29.99	3500	" 8.0
	20:30	24 0.89	122 30.03	3620	" 4.3
	21:00	23 59.25	122 30.03	3625	We made OBS programming/sched. error this will cause st. 7 to be skipped and st 8 will be deployed between now and 04:00 (8, 9, & 10 will be opened and resealed).
	21:30	23 58.04	122 30.04	3628	Speed 4.2
	22:00	23 56.73	122 29.99	3630	Speed 4.0
	22:30	23 55.39	122 29.98	3640	Speed 0.8
	23:00	23 55.06	122 30.03	3635	" 1.2
	23:30	23 55.00	122 29.94	3638	" 1.4
	24:00	23 54.91	122 30.02	3640	" 1.8
<del>235</del>	00:30	23 54.81	122 29.99	3640	" 1.6
	1:00	23 54.85	122 30.02	3640	" 2.2
237	1:30	23 54.81	122 30.015	3640	" 1.9
	2:00	23 54.85	122 30.01	3635	" 1.9
	2:30	23 54.85	122 29.99	3635	" 1.9
	3:00	23 54.83	122 29.99	3635	" 0.6
	3:30	23 54.85	122 30.01	3640	" 2.0
	4:00	23 54.87	122 29.96	3640	" 1.6
	4:02	23 54.52	122 30.03	3640	" 6.6
	4:30	23 51.51	122 30.00	3640	" 7.8
	5:00	23 47.98	122 30.01	3610	" 7.8

OBS dep. 8

Echo sounder  
38 kHz freq.  
above 3000 km  
below 3000 km can't detect

Local = gmt + 8

## TAICRUST 1995 WATCHSTANDER'S BASIC LOG

LEG 1

J Day	gmt time	Latitude	Longitude	Depth (m)	Activity/status	location
<del>08/25</del>	5:30	23.44.4765	122 30.0122	3500 (m)	Speed 8.1	
	6:00	23° 40' 40.05"	122° 29' 53.80"	3100 m	Speed 8.4	GPS doesn't work well, miss.
OBS 9 →	6:12	23° 40' 00.69"	122° 30' 01.01"	2900 m	speed 1.5	speed reduce to 5.0
237	6:30	23 38.2076	122 29.9912	3010	speed 7.6	
	7:02	23 34.2518	122 30.0260	4010	8.0	
	7:25	23.31.7229	122 29.8965	4200 m	8.0	
	7:59	23 27.7857	122 29.9943		Speed 7.7	battery does not work
	8:25	23 26.5719	122 30.0055			boat slow down 1 mile & return for
OBS 10 →	8:30	23 26.3789	122 30.0556		GPS down	
	8:41	23° 23' 47.41"	122° 30' 02.23"E		(Trimble Navigation)	Speed 2.6
					OBS 10 deployed	
	9:00	23 21.8230	122 30.0123		GPS position	Speed 6.7
	9:30	23.18.0675	122 30.0511		Speed 7.7	
	10:00	23 14.2916	122 30.0569		Speed 7.8	
	10:35	23 11.7104	122 30.0109	5400 m	Speed 6.5	
	11:00	23 10.8330	122 30.0877	5450 m	Speed 5.5	
OBS 11 →	11:19	23° 10' 31.26"	122° 29' 97.33"	5560 m	23° 10' 16.89" 122° 30' 0' 38"	OBS 11 deployed
			(GPS)		(Trimble Navigation)	
	11:30	23.09.1835	122 29.9233	5500		
	12:00	23 05.4060	122 29.9839	5500	Speed 7.0	
	12:30	23 01.6301	122 29.9130	5500	Speed 8.0	
	13:05	22 56.7949	122 30.0681	5500	Speed 9.0	
	13:30	22 53.3219	122 29.9737	5140	" 11.2	
	14:00	22 50' 58.63"	122° 29' 59.77"	5500	GPS down	
OBS 12 →	14:30	22 48.5654	122 29.9883	5300	6.3 GPS OK	
	14:32	22 48.4656	122 30.0133	5300	OBS 12 deployed	
237	15:00	22 45.21	122 29.9~	5200	Speed 8.0 km/h	

local = gmt + 8

TAICRUST 1995 WATCHSTANDER'S BASIC LOG

OBS 13 →

J Day	gmt time	Latitude	Longitude	Depth (m)	Activity/status
08/25	15:30	22 40 980	122 29.9777	5150	
237	16:00	22 37 593	122 29.9791	5000	Speed 8.6
	16:30	22 30.10	122 29.97	4980	" 8.4
	17:00	22 29.26	122 30.01	4920	" 7.1
	17:14	22 28.43	122 30.00	4933	OBS 13 deployed; now return to Sta. #5
	17:30	22 30.18	122 30.05	4900	Speed 9.4
	18:01	22 34.35	122 30.07	4990	" 8.2
	18:37	22 39.10	122 30.15	4990	Headed for sta. #5 sp. 8.0 kt (6.3 thru water)
	19:00	22 42.26	122 30.02	5110	SOG 8.2, Speed 6.3
	19:30	22 46.58	122 30.03	5200	SOG 9.1 kt
	20:00	22 50.74	122 30.09	5300	Speed 8.9
	20:30	22 55.04	122 30.11	5450	" 4.2
	21:00	22 59.28	122 30.24	5450	" 8.6
	21:30	22 03.54	122 30.13	5530	" 8.7
	22:00	23 07.75	122 30.12	5500	8.0
	22:31	23 12.11	122 30.08	5200	" 8.4
	23:00	23 15.98	122 30.02	4350	SOG 8.2, sp. 6.9
	23:30	23 20.15	122 30.03	4200	" 8.4, " 7.1
	24:00	23 24.43	122 30.86	4150	Speed 9.4
8/26	01:40	23 30.64	122 30.36	3300	Speed 7.1
238	01:00	23 33.40	122 30.22	3700	7.1 (speed)
	01:30	23 38.20	122 30.06	3100	Speed 7.0
	02:00	23 40.07	122 30.08	3300	Speed 7.1
	02:30	23 46.08	122 30.10	3600	Speed 7.1
	03:00	23 51.61	122 30.01	3600	Speed 7.1
	03:30	23 55.6381	122 28 1778	3620	Speed 4.9
238	04:00	24 00.6211	122 28 0911	3600	4.4 - R/V Ewing passed due east

local

depth

Speed: 4.6

J Day	gmt time	Latitude	Longitude	Activity/status	Speed
238	04:30	24 02.6331	122 28.3468	Speed 4.6	4.6
	05:00	24 05.1023	122 28.8933	2200 3600 m	4.6
	05:30	24 09.8731	122 29.8345	1830 m	4.6
	06:00	24 12.3793	122 30.1633	980	4.6
	06:30	24 16.9312	122 30.1366	900 m	4.6
	07:00	24 20.69	122 30.09	600 m	4.6
	07:30	24 24.2294	122 30.1304	610 m	4.6
	08:00	24 28.0507	122 30.0145	660 m	4.
<del>238</del>	08:30	24 30.4239	122 30.2480	593 m	1.
	09:00	24 31.8113	122 30.9361	597 m	0. → GPS down
	09:35	24 33.0723	122 31.4907	548 m	0.
	10:00	24 33.8082	122 31.8366	500 m	0.
	10:30	24 34.6506	122 32.2885	484 m	0.
	11:00	24 35.4090	122 32.7239	467 m	0.
	11:30	24 36.0919	122 33.2399	485 m	0.
	12:00	24 36.8675	122 33.6723	486	0
	12:30	24 37.7211	122 34.0772	476	0
	13:09	24 39.1521	122 34.3604	569	0
	13:39	24 40.1331	122 31.9220	438	0.1
	14:00	24 39.472	122 29.9526	452	2.8
	14:30	24 39.6601	122 30.0643	463	1.4
OBS S surface	14:43	24 39.6784	122 30.0960	452	OBS S on surface
	14:55	24 40.3420	122 30.5833	452	OBS S on board
	15:08	24 39.5200	122 30.8578	440	8.7
	15:30	24 36.7231	122 30.54	432	9.1
238	16:00	24 33.3225	122 30.4171	470	9.2

Julian day:  
Local

TAICRUST 1995 WATCHSTANDER'S BASIC LOG

J Day	gmt time	Latitude	Longitude	Depth (m)	Activity/status
<del>238</del>	16:30	24 29.4354	122 30.2844	723	Speed 9.4
	17:00	24 25.7160	122 30.0793	617	" 9.4
	17:30	24 21.7468	122 30.0366	818	" 9.4
	18:00	24 18.3702	122 30.0745	372	" 2.2
	18:00	"	"	"	OBS 6 on surface
	18:11	24 18.5025	122 30.4188	375	OBS 6 on board
	18:30	24 16.8612	122 30.4892	425	Speed 9.0
	19:00	24 13.2983	122 30.2715	990	" 8.9
	19:30	24 9.96	122 30.198	1702	Spd 8.8, SOG ~ 7.0 kt; headed to Sta. 8
	20:00	24 6.3505	122 30.1312	2600	" 8.8
	20:30	24 3.98	122 30.16	3450	" 6.4, " 5.4 kt
	21:00	24 1.5773	122 30.1131	3650	" 6.5 kt
	21:30	23 59.7055	122 30.1843	3630	" 4.6 kt
	22:00	23 58.1008	122 30.1252	3630	" 4.0 kt
	22:30	23 57.0640	122 30.1291	3620	" 3.6 kt
	22:58	23 56.1124	122 30.0657	3630	" 2.1 kt
	23:30	23 55.33	122 30.094	3630	" 2.5 kt
	24:00	23 54.8533	122 30.0455	3633	" 0.11 kt
<239>	0:30	23 54.8573	122 30.0917	3630	0.7
	1:00	23 55.0432	122 30.2260	3630	0
OBS 8	1:05	23 55.1878	122 30.3020	3630	0.6 waiting for station 8 OBS
	1:13	23 55.2799	122 30.3558	3630	0.3 on surface OBS 8
	1:37	23 52.7563	122 30.2939	3630	8.6 on board
		23 50.44	"	"	8.6 → GPS shut down
	2:00	23 49.5347	122 30.0413	3600	8.6
	2:30	23 46.2218	122 29.5712	3500	8.7
	3:00	23 43.4938	122 29.5704	3150	6.5

## TAICRUST 1995 WATCHSTANDER'S BASIC LOG

J Day	gmt time	Latitude	Longitude	Depth (m)	Activity/status
239	3:40	23° 40.5672	122° 30.0478	3110 m	speed 4.3
	4:00	23° 40.1345	122° 29.9530	2900 m	Speed 2.7
	4:30	23° 40.2013	122° 30.3324	2910 m	0
OBS 9 →	4:39.50	23° 40.3964	122° 30.2903	2950 m	on surface
→	4:52	23° 40.6520	122° 30.4607	3100 m	on board
	5:00	23° 40.4070	122° 30.4357	3000 m	2.9 - speed
	5:30	23° 36.3152	122° 29.9474	3700 m	8.9
	6:00	23° 32.1592	122° 30.0189	3650 m	8.9
	6:30	23° 27.7769	122° 30.0204	3360 m	8.9
	7:00	23° 24.5047	122° 30.0362	4300 m	3.8
	7:31	23° 23.9423	122° 30.0676	4450 m	1.4
	8:00	23° 23.8659	122° 30.0417	4450 m	0.7
OBS 10 →	8:30	23° 23.8358	122° 29.9161	~4450	0.9
	8:42.4	23° 23.4692	122° 29.7139	4400	0.6, OBS 10 on the surface
	8:54	23° 24.4333	122° 30.2884	4500	OBS 10 on board
	9:30	23° 20.9762	122° 29.5463	5000	6.1
	10:30	23° 17.8000	122° 29.8200	5200	6.2
	11:00	23° 11.2449	122° 30.1040	5500	6.2
	11:30	23° 10.5500	122° 30.0205	5500	5.0
	12:00	23° 10.1346	122° 30.0688	5500	4.2
	12:30	23° 10.3916	122° 30.0097	5600	0
	12:38	23° 10.3415	122° 30.0333	~5600	OBS 11 on surface
	12:42	23° 10.5040	122° 30.2326	~5600	OBS 11 on board
	13:00	23° 09.1417	122° 30.2067	5600	2.9
	13:31	23° 06.2779	122° 30.2877	5600	
	14:01	23° 03.2411	122° 30.1095	5500	GPS down -
	14:31	23° 00.2844	122° 30.0431	5550	

local

## TAICRUST 1995 WATCHSTANDER'S BASIC LOG

J Day	gmt time	Latitude	Longitude	Depth (m)	Activity/status
239	15:00	22° 56.9622	122° 30.1693	5500	Speed 6.9
	15:30	22° 54.6405	122° 30.0645	5500	Speed 5.0
	16:00	22° 51.6229	122° 30.0361	5400	5.1
	16:28	22° 49.0756	122° 30.0304	5290	" 5.1
	17:01	22° 48.5294	122° 29.8192	5280	Arrival at St. 12 and Waiting for OBS
	17:30	22° 48.71170	122° 29.4568	5266	"
	17:59	22° 48.6081	122° 29.7588	5250	OBS 12 on surface
	18:00	22° 48.4916	122° 29.7769	5260	Speed 1.3
	18:13	22° 48.7638	122° 30.0620	5260	OBS 12 on board
	19:30	22° 47.0938	122° 30.0308	5230	Hooded for St. 13, Speed → 1.5 Kt
	19:50	22° 43.5631	122° 27.9813	5200	Speed 7.1
	19:30	22° 40.0340	122° 30.0002	5120	" 7.3
	20:00	22° 36.0720	122° 29.9945	5000	" 7.6
	20:30	22° 33.0966	122° 30.0026	4970	" 7.6
	21:00	22° 30.08'	122° 29.94'	4920	" 3.9 kt
	21:30	22° 29.3310	122° 27.8853	4930	slowly approaching st. 13
	22:00	22° 28.9385	122° 27.8730	4900	waiting for OBS 13 Speed = 1.6 kt
	22:30	22° 28.6872	122° 27.9362	4900	" " 1.7
	22:00	22° 28.5075	122° 27.8988	4900	" " 1.8
	23:20	22° 28.5298	122° 27.7978	4910	OBS 13 on the surface
	23:30	22° 28.7898	122° 27.6846	4905	Speed 0.1
	23:32	22° 28.8816	122° 27.5859	4905	OBS 13 on board
	24:00	22° 33.4108	122° 28.0576	4930	Speed 10 kt
240	0:30	22° 39.2411	122° 26.4374	4900	Speed 10 kts
	1:00	22° 45.1348	122° 24.9648	5150	10
	1:30	22° 51.5465	122° 23.8314	5200	Speed 10.0
	02:00	22° 57.2218	122° 22.5700	5300	Speed 10.0

08/58



8/28

local

## TAICRUST 1995 WATCHSTANDER'S BASIC LOG

J Day	gmt time	Latitude	Longitude	Depth (m)	Activity/status
240	0230	23 03.5428	122 21.7135	5300	Speed 10.0
	0300	23 08.8108	122 20.5703	5200	Speed 10.0
	0330	23 14.2312	122 19.4043	5100	Speed 10.1
	0400	23 18.0322	122 19.2866	7500 ~ 5500	Speed 10.1
	0430	23 27.7960	122 18.5782	5000 ~ 5500 ?	10.1
	0500	23 33.4706	122 18.0454	?	10.0
	0530	23 38.1908	122 17.0286	?	10.1
	0600	23 45.9163	122 15.6914	?	10.1
	0630	23 52.4111	122 14.7270	?	9.6
	07:07	23 59.8170	122 13.8092	?	9.6
	07:30	24 03.4622	122 13.5160	?	8.1
	08:00	24 04.5906	122 13.1271	?	1.5
	08:33	24 05.2972	122 09.6014		5.7
	09:18	24 06.20	122 04.26	3270	6.1
	0935	24 06.3605	122 03.0565		
	10:00	24 06.8528	122 01.8508		5.0
	10:37	24 06.951	121 59.121	2375	4.8 ft. Waiting to hear from Ewing
	11:00	24 07.2346	121 57.5834	2080	6.1
	11:30	24 07.3352	121 55.4396	1685	5.9
	12:37	24 07.5876	121 50.8934 E	1454	2.9
	13:30	24 07.8210	121 50.0520	2292	2.8
	14:00	24 08.0000	121 49.9450	2500	2.9
	16:00	24 04.2165	121 50.9560	2550	1.7
	16:29	24 04.2513	121 51.1721	2400	1.9
	16:59	24 04.3786	121 52.2226	2150	2.0
	17:30	24 04.4168	121 52.7096	2170	2.0
	18:00	24 04.4783	121 53.2216	2265	2.0

TAICRUST 1995 WATCHSTANDER'S BASIC LOG

local

J Day	gmt time	Latitude	Longitude	Depth (m)	Activity/status
240	6:20				After consulting w/ Ewing and weather forecast we are returning to Keelung
	6:30	24° 7.83'	121° 55.33'	~2300	9.2
243	11:00	25° 13.3748	121° 49' 04.00	116	Transit to deployment location OBS 26
243	11:30	25° 13.2923	121° 53' 09.29	170	Speed 9.3
243	12:00	25° 12.5504	121° 55' 17.571	163	Speed 7.6
243	12:30	25° 11.1871	121° 57.9149	186	Speed 5.7
243	13:00	25° 08.9569	121° 59.7102	204	Speed 5.7
243	13:37	25° 06.0200	122° 02.0149	168	Speed 5.8
243	14:03	25° 03.6794	122° 02.5552	150	Speed 6.1
243	14:37	25° 00.8782	122° 03.1872	122	Speed 5.5
243	15:00	24° 58.9790	122° 03.8905	166	Speed 5.9
243	15:35	24° 55.6820	122° 04.1081	261	Speed 6.1
"	16:00	24° 52.9670	122° 03.6454	111	" 4.9
"	16:30	24° 49.8704	122° 02.9346	722	" 6.0
"	17:00	24° 46.6988	122° 02.4809	171	" 6.2
"	17:30	24° 43.3791	122° 02.5857	92	" 6.7
"	18:00	24° 40.431	122° 02.571	125	" 6.7
"	18:33	24° 35.7815	122° 02.5481	182	" 9.0
"	19:00	24° 31.4147	122° 02.4575	684	" 9.1
"	19:20	24° 26.8223	122° 02.2970	~2700	" 9.2
"	20:00	24° 22.5848	122° 02.0142	2640	" 9.2
"	20:31	24° 18.7870	122° 02.10794	2930	" 9.0
"	21:00	24° 15.891	122° 01.821	2900	" 7.8
"	21:30	24° 12.5870	122° 01.3359	3300	" 8.2

TAICRUST 1995 WATCHSTANDER'S BASIC LOG

local

J Day	gmt time	Latitude	Longitude	Depth (m)	Activity/status
243	22:00	24° 9.61'	122° 1.20'	3100	In transit to sta. 20 line 11
	22:30	24° 6.37'	122° 1.20'	2750?	
	23:00	24° 3.6179	121° 58.9766	3100	Speed 8.2
	23:30	24° 1.5799	121° 59.1121	3065	" 4.4
244	24:00	24° 0.70	122° 0.97	2960	" 2.4
OBS 20 →	0:01	24° 0.9046	122° 1.0159	2960	OBS 20 deployed
	0:30	24° 00.6781	122° 04.0634	3000	5.9
	1:00	24° 23.593835	122° 06.6606	2950	6.4
	1:30	23° 58.8903	122° 10.0295	2980	6.3
	2:00	23° 58.2195	122° 13.3065	2900	6.1
OBS 21 →	2:25:18	23° 57.8884	122° 15.4653	3100	3.2 OBS 21 deployed
	2:30	23° 57.8442	122° 15.8484	3100	4.7
	3:00	23° 57.3003	122° 18.9488	3550	5.5
	3:30	23° 56.5577	122° 21.8972	3560	6.8
	4:00	23° 55.6250	122° 26.3242	3600	8.0
OBS 22 →	4:30:11	23° 54.8212	122° 28.9965	3630	OBS 22 deployed ← station 8 position
	4:34	23° 54.6313	122° 30.2676	3630	6.0
<del>OBS 23 →</del>	<del>4:38</del>	<del>23° 54</del>	<del>122° 32</del>	<del>3650</del>	<del>OBS 23 deployed ← station 23</del>
	5:00	23° 54.2581	122° 32.8295	3650	
OBS 23 →	5:00:41	23° 54.2581	122° 32.8521	3650	OBS 23 deployed station 23
	5:30	23° 53.3900	122° 36.8072	3680	Speed 10.00
	6:00	23° 52.3598	122° 41.4695	3650	9.0
	6:30	23° 51.3736	122° 46.2312	3600	Speed 5.6
OBS 24 →	6:38:24	23° 51.2368	122° 47.1600	3600	OBS 24 deployed
	7:00	23° 50.7254	122° 50.1906	3450	8.4
	7:30	23° 49.6001	122° 54.6908	3600	9.4
	8:00	23° 48.6080	122° 59.3722	3600	7.9