

TRINIDAD → GALVESTON

SAT NAV # 1

NAVIGATION LOG

CRUISE

FM 01-7

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DAY	FIX NO OR CSC	GMT	LATITUDE	LONGITUDE	RISE	SPD	CSE	COMMENTS
01	S 001	0000	+01 00.001	-001 00.001	20	00.1	001	
17	S 001	1954	+10 38.770	-061 30.529		10.0	240	Lv. Trinidad Begin FM 01-7
229	CSC	2037				03.0	270	c/s deaccel on 2 drop speeds
229	CSC	2041				10.0	270	c/s 12m/2 10kts
229	S 002	2042	+10 38.283	-061 38.543		10.0	270	SS01 TRH
229	CSC	2230				10.0	305	C/C 305°
229	S 003	2122	+10° 38.952	-61° 43.248		10.0	270	SS01 RBL
229	S 004	2304	010° 50.601	-061 55.588		10.0	305	SS01
18	S 005	0022	+10° 57.424	-062° 06.332		10.0	305	SS01 CSD
230	S 006	0050	+10° 59.832	-062° 09.708		10.0	305	SS01 CSD
230	S 009		BAD FIX					
230	S 008	0250	+11° 10.334	-062° 25.896		10.0	305	SS01 CSD
230	S 009	0436	+11 19.046	-062 41.818		10.0	305	SS01 FJS
230	CSC	0521					315	C/C ISLANDS FJS
230	CSC	0703					303	C/C BACK ON COVISE FJS
230	S 010	0812	+11 41.669	-063 15.931		10.0	303	SS01 TRH
230	S 011	0956	+11 51.936	-063 33.871		10.0	303	SS01 TRH
230	S 012	1148	+12° 04.485'	-063° 51.685'		11.0	303	SS01 LAM
230	S 13	1216	+12° 07.654'	-063° 56.713'			303	SS01 LAM
230	S 14	1336	+12° 15.776'	-064° 09.182'		10.5	303	SS01 LAM
230	S 15	1424	+12° 20.349'	-064° 17.123'		11.0	303	SS01 LAM
230	S 16	1610	+12° 30.829	-064° 34.298		11.0	303	SS01
230	S 017	1952	12° 54.059	-065 09.295		11.0	303	SS01
230	S 019	2138	13 04.780	-065 24.236		11.0	303	SS01
18	S 020	2214	13 08.042	-065 31.619		11.0	303	SS01
230	S 021	2338	13 14.497	-065 41.261		11.0	303	SS01

S - SATELLITE C - LORAN C A - LORAN A O - OMEGA R - RADAR D - DEAD RECKON

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01	S 001	0000	+01 00.001	-001 00.001	20	00.1	001	
230	S 022	0238				10	303	SS04
231	S 023	0328	+13° 33.401	-066° 13.311		10.0	303	SS01
19	CSC	0402				00.0	303	ENGINES DOWN
231	CSC	0409				10.0	303	1200/1150 RPM FJS
19	S 024	0516	+13 43.323	-066 27.193		10.0	303	SS01
231	CSC	0809				03.5	303	c/s 500/2 3.0 Kts depletted channel gear
231	S 025	0904	+14 00.253	-066 53.068		03.5	303	SS01 TRK
231	S 026	0956	+14 01.978	-066 56.690	54	03.5	303	SS02 on Sat Nav #1, Sigsal from Sat Nav #2 TRK
231	S 027	1052	+14 03.901	-066 59.169		03.5	303	SS01 TRK
231	S 028	1126	+14 04.923	-067 00.772		03.5	303	SS01 TRK
231	S 029	1244	+14 07.310	-067 04.672		03.5	303	SS01
231	S 030	1314	+14° 08.165'	-067 06.213'		03.5	303	SS01 LAM
231	CSC	1422				04.5	303	700 RPM/2 c/s
231	CSC	1434				05.0	327	800/2 c/s, c/c
231	CSC	1450				05.0		850/2
231	S 031	1502	+14° 12.870'	-67° 12.086'			327°	SS01 LAM
231	S 032	1650	+14 21.671	-067 17.701		05.0	327	SS01 FJS
231	CSC	1719				05.0	327	800/2 c/s FJS
231		1900				05.0	327	6 VNS OFF elec prob. in gunshack FJS
231	CSC	2004				05.5	327	c/s 850/2 5.0 kts
231		1958				05.5	327	6 VNS ON + RECD 1214 W
231	CSC	2009				05.5	238	c/s End CR31 start slow turn to 230°
231		2022				05.5	238	STEADY ON FJS
19	CSC	2037				05.5	147	c/s start slow turn to CR-32 147°
231		2050				05.5	147	STEADY ON Begin CR-32 FJS

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DAY	FIX NO OR CSC	GMT	LATITUDE	LONGITUDE	RISE	SPD	CSE	COMMENTS
01	S 001	0000	+01 00.001	-001 00.001	20	00.1	001	
19	5033	2046	+14 35.432	-067 32.345		05.5	147	SS01 TRH
231	5034	2120	+14 32.855	-067 30.985		05.5	147	SS01 TRH
231		2213						SONOBUOY 2 FJS
231	5035	2236	14 26.7630	-067 28.1212		05.5	147	
231		2309						sonobuoy 3 over the side
231	CSC	2315				05.5	143	C/C 143°
231	5036	2304	+14 24.400	-067 26.980		05.5	147	SS01 TRH
232	5037	0026	+14° 18.377'	-67° 24.012'		05.5	143	SS01 LAM
232	CSC	0057				05.5	135	C/C 135°
232	5038	0058	+14° 16.202'	-67° 21.831'		05.5	135	SS01 LAM
232	CSC	0341				05.5	090°	begin turn to 090° C/C
232		0350				05.5	090	on course 090°
232	5039	0408	+14° 05.249	-067° 09.692		05.5	090	SS01 C/C
232	CSC	0529				05.5	327	BEGIN SLD TURN TO 327 END CD-33 FJS
232		0544				05.5	327	STEADY ON, CR-34 FJS
232	5040	0812	+14 18.250	-067 10.648		05.5	327	
232	5041	0958	+14 26.877	-067 17.156		5.5	327	SS01
232	5042	1038	+14 30.256	-067 19.297		05.5	327	SS01
232	CSC	1105				05.5	195	begin C/C to 195°
232		1128				05.5	195	ON CSE 195°
232	5043	1156	14 29.9432	-067 23.8888		05.5	195	
232	5044	1222	14° 27.717'	-67° 25.008'		05.5	195	SS01 LAM
232	5045	1342	14° 21.1881	-67° 27.9881		05.5	195	SS01 LAM
	CSC	1430				05.5	058	begin turn to 058°
232	5046	1540	+14° 19.527	-067° 29.973		05.5	058°	SS01 C/C

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01	S 001	0000	+01 00.001	-001 00.001	20	00.1	001	
20	S047	1956	+14 35.9374	-067 07.1382		05.5	058	
232	CSC	2019				05.5	135	End CR-36 C/C 135° start slow turn
232		2030				05.5	135	steady on 135°
232		2058						COMPRESSOR WORK, SYSTEM 17 DOWN
232	S048	2140	+14 33.846	-066 59.973		05.5	135	SSD1
232	S049	2208	+14 32.139	-066 58.023		05.5	135	SSD1 FJS
232	CSC	2231				04.0	135	C/S 900/1 STRIBD OFF FJS
232	CSC	2235				05.0	135	C/S 1200/1 FJS
232	CSC	2240				06.0	135	C/S 850/2 FJS
232	CSC	2300				06.0	240	BEGIN SLO TURN TO CR-38 FJS
232		2339				06.0	240	Steady on 240°
232	CSC	2345				05.0	240	750/2 C/S 5.0 Kts
21	S050	0012	+14 29.594	-066 57.710		04.7	240	
233	S051	0128	+14 26.656	-067 03.034		04.7	240	SSD1
233	S052	0304	+14 22.940	-067 09.764		05.0	240	SSD2 OK ON SATNAV 2 sm61
233	S053	0446	+14 19.361	-067 16.815		05.0	240	SSD1 FJS
233	CSC	0514				05.0	235	C/C FJS
233	CSC	0611				05.0	148	BEGIN SLO TURN, BEGIN CR-39
233		0621				05.0	148	STEADY ON FJS
233	CSC	0641				05.0	060	C/C BEGIN SLO TURN FJS
233		0652				05.0	060	STEADY ON FJS
233		0710				05.0	060	SYSTEM DOWN, ITB'S
233		0751				05.0	060	maxipulse system online; cont. CR-39
233	S054	0908	+14 19.829	-067 12.552		05.0	060	SSD1 TRH
233	CSC	0941				05.0	070	C/C FJS

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DAY	FIX NO OR CSC	GMT	LATITUDE	LONGITUDE	RISE ↙	SPD	CSE	COMMENTS
01	S 001	0000	+01 00.001	-001 00.001	20	00.1	001	
233		0958					080	begin c/c (~CR-40 due to connecting) FJS
21	S055	0946	SEE SATNAV 2					SS04 FJS
233	S056	1056	+14 22.3576	-067 04.572	17	5.0	080	SS01 FJS
233		1115					070	c/c FJS
233		1118				5.0	070	c/s 800/2 FJS
233	S057	1258	14 25.7234	-066 54.8510		05.0	070	SS01
233	S058	1326	14 26.3718	-066 52.7354		05.0	070	SS01
233	CSC	1340				05.0	240	begin slow turn to stbc 240°
233	S059	1436	14 24.2472	-066 54.0736		05.0	240	
233	CSC	1553				05.0	235	c/c FJS
233	S060	1618	14 19.5556	-067 02.441		05.0	235	SS01 FJS
233	CSC	1647				05.0	230	c/c FJS
233		1650				05.0	230	c/s 750/2 FJS
233	CSC	2003				05.0	295	BEGIN SLOW TURN END CR-41, c/c FJS
233		2012				05.0	295	steadily on 295° for CR-42
233	S061	2048	+14 08.423	-067 22.665		05.0	295	SS01 TRH
233	S062	2116	+14 09.483	-067 24.960		05.5	295	SS01 5.5 speed made good TRH
233	S063	2238	+14 12.641	-067 31.895		05.5	295	SS01 TRH
233	S064	2254	+14 13.308	-067 33.275		05.5	295	SS01 TRH
233	S065	2322	+14 14.328	-067 35.725		05.5	295	SS01 TRH
233		2331						MAK STBY, LOST AIR TRH
233		2351						RESUME RECORDING TRH
22	S066	0038	14 17.227	-067 42.513		05.5	295	
234	CSC	0122				05.5	295	800/2
234	CSC	0125				05.5	300	c/c

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01	S 001	0000	+01 00.001	-001 00.001	20	00.1	001	
234	5067	0106	+14 18.300	-067 45.120		05.5	295	
234	5068	0338	+14 24.330	-068 00.091		06.2	300	SS01
234	CSC	0413				06.0	305	C/C FJS
22	5069	0524	+14 29.100	-068 08.787		06.0	305	SS01 FJS
234	5070	0818	+14 37.671	-068 25.596		06.2	305	SS01 TRH
234	5071	0852	+14 39.075	-068 28.879		06.0	305	SS04 Sm 61 from #2 TRH
234	5072	1000	+14 42.336	-068 35.569		06.0	305	SS01 TRH
234	CSC	1042				06.0	310	C/C 310° TRH
		1203				06.0	310	End LINE CR-42 MAQ off TRH
234	CSC	1228				03.0	310	Slow ahead on 1 stbd out of gear
234	5073	1204	+14 48.879	-068 48.139		06.0	310	bring in multichannel gear
	CSC	1232				06.0	310	800/2 6.0 kts
	CSC	1246				03.5	310	dead slow/2 3.5 kts
	CSC	1350				11.0	310	C/S 1200/2
234	5074	1234	+14° 50.353'	-068° 51.055'		11.0	310	SS01 LAM
	CSC	1409				11.0	294	C/C
234	5075	1520	+14° 57.674'	-069° 09.737'		11.0	294	SS01 LAM
234	5076	1700	+15° 04.044	-069° 26.564		9.3	294	SS01
234	5077	2000	+15 13.346	-069 53.756		09.5	294	SS01
234	5078	2144	+15 18.814	-070 10.562		09.5	294	SS01
234	5079	2204	+15 20.040	-070 13.786		09.5	294	SS01
234	5080	2234	+15 21.681	-070 17.703		09.5	294	SS01
23	5081	0018	+15° 26.963	-070° 33.623		09.5	294	SS01 OBY
235	5082	0134	+15° 30.545	-070° 44.893		09.5	294	SS01 OBY
235	5083	0222	+15° 33.269	-070° 53.330		09.5	294	SS01 OBY

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DAY	FIX NO. OR CSC	GMT	LATITUDE	LONGITUDE	RISE	SPD	CSE	COMMENTS
01	S 001	0000	+01 00.001	-001 00.001	20	00.1	001	
23	5084	0416	+15 38.366	-071 07.550		09.5	294	SS01 FJS
235	5085	0900	+15 55.331	-071 48.262		08.8	294	SS01 TRH
235	5086	1058	+16 02.206	-072 04.023		09.1	294	SS01 TRH
235	5087	1148	+16 05.334	-072 11.216		09.1	294	SS01 TRH
235	5088	1302	+16 10.210	-072 22.150		09.3	294	SS01 LAM
235	5089	1330	+16 12.133	-072 26.443		09.3	294	SS01 LAM
235	5090	1552	+16 22.449	-072 50.525		09.3	294	SS01 LAM
235	5091	2056	+16 44.906	-073 31.779		09.3	294	SS01
235	CSC	2143				00.0	294	Stop engines
235	CSC	2150				09.3	294	Full ahead
235	5093	2244	+16 52.729	-073 45.243		09.3	294	SS01
235	CSC	2302				09.3	290	c/c 290°
235	5094	2330	+16 56.140	-073 52.301		09.5	290	SS01 CDF
24	5095	0048	+17 01.827	-074 03.953		09.7	290	SS01 CDF
236	5096	0116	+17 03.600	-074 08.874		10.5	290	SS01 CDF
236	5097	0308	+17 10.225	-074 26.895		10.0	290	SS01 CDF
236	5098	0452	+17 15.728	-074 43.833		10.0	290	SS01 FJS
236	5099	0820	+17 26.063	-075 16.704		10.0	290	SS01 TRH
236	5100	1002	+17 31.711	-075 32.673		09.5	290	SS01 TRH
236	5101	1056	+17 34.478	-075 41.287		10.0	290	SS01 TRH
236	CSC	1202				10.0	270	c/c 270°
236	5102	1214	17 37.814	-75 53.420		09.7	270	SS01
236	5103	1240	17 37.779	-75 57.638		09.7	270	SS01
236	5104	1402	17 37.972	-76 10.963		09.6	270	SS01
236	5105	1446	17 38.132	-76 18.108		09.6	270	SS01

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01	S 001	0000	+01 00.001	-001 00.001	20	00.1	001	270°
24	S 106	1630	17° 38.676	-76° 35.264		9.5	294	SS01
236	CSC	1707				9.5	265	c/c to 265°
236	CSC	2122	17 37			05.0	265	+waffle c/s
236	CSC	2140				09.5	265	c/s
236	S 108	2152	17 37.389	-077 32.862		09.5	270	SS01
236	CSC	2310				09.5	298	c/c to 298°
236	S 109	2336	17 39.940	-077 47.382		09.5	298	SS01
25	S 110	0000	+17° 41.841	-077° 51.069		09.5	298	SS01
237	S 111	0030	+17° 44.124	-077° 55.442		10.0	298	SS01
237	S 112	0150	+17° 50.285	-078° 07.602		09.8	298	SS01
237	S 113	0344	+17 58.465	-078 23.821		10.0	298	SS01 FJS
237	S 114	0532	+18 06.670	-078 40.970	14	10.0	298	SS01 on SAT NAV #1 TRH
237	S 115	0912	+18 22.971	-079 11.942		09.3	298	SS01 TRH
237	S 116	1058	+18 31.625	-079 27.699		10.0	298	SS01 TRH
237	S 117	1150	+18 35.980	-079 34.968		09.9	298	SS01 TRH
237	S 118	1310	+18 42.963	-079 47.150		10.1	298	SS01 LAM
237	S 119	1338	+18 45.387	-079 51.333		09.4	298	SS01 LAM
237	S 120	1526	+18 54.622	-080 07.261		09.4	298	SS01 LAM
237	S 121	1712	+19 03.295	-080 22.716		10.0	298	SS01
237	CSC	1954				00.0	298	c/s
237	CSC	1957				10.0	298	c/s
237	CSC	2130				10.0	295	c/c
237	S 123	2248	19 29.969	-081 11.5944		10.0	295	
26	S 127	0058	+19° 38.473	-081° 29.114	09.3	08.3	295	SS01 Not used in navigation
238	S 128	0126	+19° 40.066	-081° 35.169	09.2	12.3	295	SS01

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01	S 001	0000	+01 00.001	-001 00.001	20	00.1	001	
26	S129	0422	+19 52.672	-082 04.092		10.7	295	SSD1 FJS
238	S130	0820	+20 10.554	-082 40.820		09.6	295	SS01 TRH
238	S131	1006	+20 18.550	-082 57.779		10.0	295	SS01 TRH
238	S132	1104	+20 22.563	-083 06.541		09.6	295	SS01 TRH
238	S133	1154	+20 26.097	-083 14.631			295	SS01 TRH
238	CSC	1230					287	c/c to 287°
238	S134	1250	+20 29.645	-083 23.305		10.2	287	SS01 LAM
238	S135	1408	20 33.789	-083 37.389		10.3	287°	SS01 LAM
238	S136	1604	+20° 39.999	-083° 57.576		10.3	287	SS01
238	CSC	1747				05.0	287	SS01/2 c/s dead slow on 2
238	CSC	1754				10.3	287	1200/2 full speed
238	CSC	1805				04.0	287	600/2 slow ahead on 2 put out cable
238	CSC	2002				05.0	287	c/s 700/2 TRH
238	S137	2010	+20 49.980	-084 29.913		05.0	287	From sat Nav #2 D<12 on Sat Nav #1
238	CSC	2120				05.0	310	c/c tanker avoidance TRH
238	CSC	2128				06.0	305	800/2
238	CSC	2133				06.0	287	c/c 287 FJS
238	CSC	2200				06.0	171	c/c 171 slow turn to LIVE CR-71
26		2218				06.0	171	on course
238	S138	2338	+20 45.980	-084 39.324		06.0	171	SS01 TRH
27	S139	0036	+20 40.884	-084 39.148		5.4	171	SS01 LAM
239	S140	0158	+20 33.558	-084 38.398	5.45	04.6	171	SS01
239	S141	0320	+20 26.010	-084 38.168	avg	05.8	171	SS01 TRH
	CC	0352					165	CC
	S142	0502	+20 16.660	-084 37.429		6.0	165	SS01 FJS

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01	S 001	0000	+01 00.001	-001 00.001	20	00.1	001	
271	C/C	0525				05.5	160	c/c FJS
239	S143	0914	+19 52.454	-084 30.232		06.0	160	TRIA
239	CSC	0936				06.0	165	c/c 165° TRIA
239	S144	1100	+19 42.014	-084 26.604		06.0	165	
239	CSC	1138				06.0	345	begin turn to 345°
239		1205				06.0	345	on course
239	S145	1158	+19 38.815	-084 25.824		06.0	345	SSOI LAM
239	CSC	1333				06.0	165	begin turn to 165°
239		1400				06.0	165	on CSE 165
239	S146	1318	19 43.640	-084 27.521		06.0	165	SSOI
239	S147	1352	19 47.431	-084 25.628		06.0	165	SSOI TAKEN DURING TURN USE SAT NAV 2 FIX
239		1625				06.0	165	MAXIMISE DOWN
239	S148	1640	+19 29.338	-084 21.122		06.0	165	SSOI FJS
239	CSC	1710				06.0	340	BEGIN SLD TURN TO 340 FJS
239		1729				06.0	340	STEADY ON FJS
239	CSC	1835				06.0	170	BEGIN SLD TURN FJS
239		1855				06.0	170	STEADY ON FJS
239		1859				06.0	170	RESUME RECORDING
239	S149	2246	+19 10.423	-084 18.315		06.0	170	SSOI TRIA
239	CSC	2300				06.0	310	c/c slow turn to CR-72 TRIA
239		2315				06.0	310	steady on 310°
239	S150	2320	+19 08.908	-084 19.631	07	06.0	310	From SAT NAV #2 D<12 SAT NAV #1
239	S151	2340	+19 10.959	-084 21.879		05.8	310	SSOI TRIA
28	S152	0108	19 16.960	-084 27.094		06.1	310	SSOI
240	S153	0136	19 18.894	-084 30.240		06.2	310	SSOI

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DAY	FIX NO. OR CSC	GMT	LATITUDE	LONGITUDE	RISE Z	SPD	CSE	COMMENTS
01	S 001	0000	+01 00.001	-001 00.001	20	00.1	001	
27	CSC	2307				05.7	310	800/stb 750/port
28	S154	0254	+19 23.249	-084 36.168	6	05.7	310	DO NOT USE FOR NAVIGATION ON SAT NAV 2, NO UPDATE
240	S155	0354	+19 28.101	-084 41.016		05.7	310	SS01 FJS
240	S156	0540	+19 31.507	-084 48.786		05.7	310	SS01 FJS
240	S157	0824	+19 43.980	-085 01.367		05.7	310	ON SAT NAV 2, NO UPDATE
240	S158	1008	+19 55.2824	-085 08.3156		05.7	310	
240	S159	1112	+19 54.768	-085 13.068		05.7	310	ON SAT NAV 2
240	S160	1218	+19 59.145	-085 18.390		05.7	310	ON SAT NAV 2
240	S161	1230	+19 59.8982	-085 19.3526		05.7	310	SS01
240	CSC	1300				05.7	305	C/C 305°
240	S162	1250	+20 01.583	-085 21.545		05.7	305	SS01 LAM
240	S163	1420	+20 06.720	-085 28.406		05.7	305	From Sat Nav #2 < 12 on Sat Nav #1
240	CSC	1501				05.7	310	C/C 310°
240	S164	1532	+20 11.654	-085 34.170		05.7	310	SS01 FJS
240	S165	1722	+20 20.039	-085 41.850		06.0	310	SS01 ORA
240	CSC	1736				05.7	305	C/C FJS
240	S166	2012	+20 33.041	-085 55.884		06.0	305	SAT NAV #2 FJS
240	CSC	2108				03.0	000	begin turn to 000°
240	168	2202	20 41.5692	-085 59.2516		03.0	VAR	Bring IN multichannel gear
240	CSC	2237				10.0	335	UNDERWAY to GALVESTON
240	170	2336	20 52.113	-086 04.006		10.0	335	
29	171	0024	21 00.398	-086 07.110		10.3	335	SS01
241	172	0044	+21 04.329	-086 06.382		12.0	335	SS01 ORA
241	CSC	0400				10.0	315	C/C 315°
241	173	0536	+21 25.527	-086 14.547	5	10.0	335	ON SAT NAV 2 FJS

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DAY	FIX NO OR CSC	GMT	LATITUDE	LONGITUDE	RISE Z	SPD	CSE	COMMENTS
01	S 001	0000	+01 00.001	-001 00.001	20	00.1	001	
241	S 174	0430	+21 47.845	-086 25.531		10.0	315	SS01 FOS
241	S 175	0916	+22 24.935	-086 59.862		10.3	315	SS01 TRH
241	S 176	1104	+22 37.494	-087 12.149	09.1	09.5	315	SS01 TRH
241	S 177	1206	+22 44.345	-087 19.117	08.9	08.9	315	SS01 TRH
241	S 178	1328	+22 53.660	-087 28.129		09.1	315	SS01 LAM
241	S 179	1354	+22 56.691	-087 30.835		9.5	315	SS01 LAM
241	S 180	1610	+23 11.243	-87 44.626		9.5	315	SS01 LAM
241	S 183	2238	+23 53.476	-088 25.208		9.5	315	
241	S 184	2356	+24 02.144	-088 34.641		9.5	315	SS01
30	S 185	0024	+24 05.374	-088 38.375		9.5	315	SS01
242	S 186	0116	+24 11.627	-088 45.337		10.5	315	SS01
242	S 188	0328	+24 27.583	-089 02.910		10.2	315	
242	S 189	0508	+24 40.614	-089 16.065		10.2	315	SS01 FOS
242	S 190	0826	+25 05.618	-089 39.646		10.0	315	SM 64 from Sat Nav #2 DK 12 on Sat Nov #1 TRH
242	S 191	1012	+25 19.902	-089 51.265		10.4	315	SS01 TRH
242	S 193	1240	+25 39.396	-090 12.552		10.4	315	SS01 LAM
242		1259				10.4	310°	4/00L
242	S 194	1304	+25 42.581	-090 16.042		10.2	310°	SS01 LAM
242	S 195	1426	+25 52.592	-090 26.571		10.0	310°	SS01 LAM
242	S 196	1506	+25 56.998	-090 31.735		10.0	310°	SS01 LAM
242	S 197	1650	+26° 8.239	-090° 45.327		9.0	310°	SS01
	S 198	2158	+26 43.291	-091 22.051		09.0	310	SS 01
	S 199	2310	+26 51.631	-091 30.375		09.0	310	SS 01
	S 200	2330	+26 53.712	-091 32.946		09.0	310	
243	CS	0000				03.0	310	Dead slow

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