

Cast #	Date	Time (GMT)	Temp. (°C)	Press. (mb)	Seas (CODE)	Vis (CODE)	Winds Dirn (true)	Winds Speed (kts)	Clouds Amt %	Weather (CODE)
1	5/13/99	1012	4.5	4.0	4	4	110	35	4	1
2	5/13/99	1053	4.5	4.0	4	4	115	34	1	1
3	5/13/99	1218	4.5	4.0	4	6	128	35	1	1
4	5/13/99	1352	4.5	4.0	5	7	125	35	1	1
5	5/13/99	1644	4.9	4.1	5	7	110	22	7	1
6	5/13/99	1936	5.1	4.9	5	7	114	26	8	2
7	5/13/99	2249	5.1	4.3	5	7	081	20	8	2
8	5/14/99	0228	5.6	4.6	6	7	090	26	8	2
9	5/14/99	0759	5.5	4.9	6	7	086	30	8	2
10	5/14/99	1145	5.0	3.5	6	7	108	38-40	1	2
11	5/14/99	1819	4.8	3.8	7	7	120	40	8	2
12	5/14/99	2022	5.1	4.0	7	7	115	35	8	3
13	5/14/99	2201	5.0	4.0	7	7	118	32	8	2
14	5/15/99	0936	4.9	4.8	6	7	140	26	4	1
15	5/15/99	1528	4.0	4.0	4	7	112	15	3	1

** IF SKY IS NOT VISIBLE, CLOUD AMOUNT = 9; OTHERWISE CLOUD AMOUNT SHOULD BE RECORDED IN EIGHTHS
(EXAMPLE: CLOUD AMOUNT = 3/8; RECORD 3)

CODE	SEA STATE (FT)	VISIBILITY (NM)	CLOUD TYPE	WEATHER	CODE
0	0.0 feet - Glassy	< 00.02	CIRRUS	CLEAR	0
1	0.0 - 0.3 feet - Rippled	00.02 - 00.10	CIRROCUMULUS	PARTLY CLOUDY	1
2	0.3 - 1.6 feet - Wavelet	00.10 - 00.25	CIRROSTRATUS	CONTINUOUS CLOUD	2
3	1.6 - 4.1 feet - Slight	00.25 - 00.50	ALTOCUMULUS	BLOWING SNOW	3
4	4.1 - 8.2 feet - Moderate	00.50 - 01.00	ALTOSTRATUS	FOG, THICK DUST, H	4
5	8.2 - 13.1 feet - Rough	01.00 - 02.00	NIMBOSTRATUS	DRIZZLE	5
6	13.1 - 19.7 feet - Very Rough	02.00 - 05.00	STRATOCUMULUS	RAIN	6
7	19.7 - 29.5 feet - High	05.00 - 10.00	STRATUS	SNOW/RAIN/SNOW	7
8	29.5 - 45.9 feet - Very High	10.00 - 25.00	CUMULUS	SHOWERS	8
9	> 45.9 feet - Phenomenal	> 25.00	CUMULONIMBUS	THUNDERSTORMS	9
*	NO OBSERVATION	NO OBSERVATION	NO OBSERVATION	NO OBSERVATION	*

54 22.1
165 16.6

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CTD Cast Weather

Cast #	Date	Time (GMT)	Temperature (°C)		Bar. Press. (mb)	Seas (CODE)	Vis (CODE)	Winds		Amt **	Clouds Type (CODE)	Weather (CODE)
			Dry	Wet				Dirn (true)	Speed (kts)			
16	5-15-99	1701	5.0	4.1	1017.2	4	8	130	24	5	6	6
17	5-16-99	0634	5.5	5.0	1020.2	4	8	115	13	4	6	1
18	5-16-99	0324	5.6	4.8	1020.0	4	8	155	20.6	3	8/3	1
19	5/16/99	1529	6.0	5.0	1019.1	4	8	175	29	—	—	1
20	"	1248	5.2	4.9	1019.0	4	8	170	22	—	—	1
21	"	00	5.1	5.0	1015.0	3	8	067	10	8	7	2
22	5/17/99	0653	5.0	4.8	1011.3	4	10	220	16	8	5	5
23	"	1207	5.1	4.5	1015.3	4	7	265	21	—	—	—
24	5/17/99	1657	3.8	2.0	1015.1	4	7	270	19	8	8	2
25	"	2151	5.2	4.0	1017.3	4	7	268	19	7	8	1
26	5/18/99	0253	8.1	6.5	1018.9	3	4	270	10	7	8/7	1
27	5/18/99	1118	5.9	4.8	1019.1	3	7	265	6.5	4	8/7	1
28	5-18-99	1614	5.0	3.9	1019.8	2	8	165	5	5	7/8	1
29	5-18-99	2201	6.9	5.2	1018.3	1	8	001	1	2	7/8	1
30	"	2253	6.9	5.2	1018.3	1	8	001	2	2	7/8	1
31	5-19-99	0005	7.0	4.8	1017.0	1	8	138	8.7	6	6	2

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2	0.3 - 1.6 feet - Wavelet	00.10 - 00.25	CIRROSTRATUS	CONTINUOUS CLOUDS	2
3	1.6 - 4.1 feet - Slight	00.25 - 00.50	ALTOCUMULUS	BLOWING SNOW	3
4	4.1 - 8.2 feet - Moderate	00.50 - 01.00	ALTOSTRATUS	FOG, THICK DUST, HAZE	4
5	8.2 - 13.1 feet - Rough	01.00 - 02.00	NIMBOSTRATUS	DRIZZLE	5
6	13.1 - 19.7 feet - Very Rough	02.00 - 05.00	STRATOCUMULUS	RAIN	6
7	19.7 - 29.5 feet - High	05.00 - 10.00	STRATUS	SNOW OR RAIN/SNOW MIX	7
8	29.5 - 45.9 feet - Very High	10.00 - 25.00	CUMULUS	SHOWERS	8
9	> 45.9 feet - Phenomenal	> 25.00	CUMULONIMBUS	THUNDERSTORMS	9
*	NO OBSERVATION	NO OBSERVATION	NO OBSERVATION	NO OBSERVATION	*

