NOAA FORM 77-13D (3-76)

NOAA FORM 77-13d U.S. DEPARTMENT OF COMMERCE (3 - 76)NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION DECK LOG - WEATHER OBSERVATION SHEET NOAA SHIP TIME ZONE MILLER FREEMAN MOR 05/26/03 SEA WATER TEMP. VISIBILITY (N.M.) SEA LEVEL PRESSURE (mb) TEMPERATURE POSITION WAVE IGHT SWELL WAVES PRESENT TIME **0**C (Lat. and Long.) SEA V HEIK (FIL DIR. SPEED DIR. HEIGHT DRY WET (Kts.) (True) (True) (Ft.) BULB BULB 54012:7:N 164823.9 VV 01 290 011.0 6.4 290 54:1.2N 164 12.9W 4 275 3-4 02 18 6.6 CL 240 5 15 (0,0 6.2 250 05 15 300 03 164° 07.0 % 6.D 1010.0 54'24' E8 24 37 04 2 2-3 10100 6.0 6. 54 26.7 W 6.5 7,0 06 36 (5 2-3 1009.9 540 17.41 N (63° 76,41 W 06 05 240 9 1010.0 54°165"N 07 41 260 236 08 164001.11W 0 010.0 54° 10 .0'W 163° 52.3 W 34°08.50 08 230 ୭6 14 4 260 Đ9 163 31.4 W 246 7.4 11 l-Z 7.0 2 6/02 540 07.6'N 10 CL عاا 05 त्रेद्र 1-3 6,2 163° 17.0W പ്പറ 7.9 7.3 10,0,6 142'52.4'M 235 05 6. 11 225 10108 12 223 8.0 230 CL 162036,8 W -2 54°20 1'N 13 142013,91W 235 8 CL 14 1620 07.6 W 0 6 9. 54° 38 5 N 4 15 3-4 9. 1-7 1010.9 17 CL 6.1 10.0 16 3.4 1.2 34 -16 8 N 230 起 5.9 4 1.2 17 161° 18.3 W 2.3 6.9 46 205 8.4 1.0 12 (010.5 54°55, 3'N 2 18 207 1-7 61° 05,3°W 1010.0 55 00.1 N 3 1-3 19 13 210 6. GL 1009.9 54.38.1 140°44.7 54°53.0 160°33.9 54°49.0°N 160°25.6°W N 3 20 3.5 21 193 11 8.0 198 15 -3 3 22 CL OB 6.2 5.6 546450 N 06 001.0 5.5 CL 85 6.0 23 160,10.5 W 54041.8 W • 6-6.3 59°49.3 W 5.4 REMARKS

NOAA FORM 77-13D (3-76)

NOAA				U — 11 L	~ ! ! ! ! !	ODSER	VAIIU	N SHEE	: 1			
	SHIP	10				DAY		DATE		TIME ZO	NĖ	
	MILL	ER FR	ZEE.	MAN		To	Ē	05/2	8/03	+	8	· · · · · ·
TIME :	POSITION (Lat. and Long.)	PRESENT WEATHER	YLI C	WIN	D	AVE SHT	SWELL	WAVES	WATER EMP.	A LEVEL RESSURE (mb)	TEMPE	RATURE
			VISIBILITY (N.M.)	DIR. (True)	SPEED (Kts.)	SEA WAVE HEIGHT (Ft.)	DIR. (True)	HEIGHT (Ft.)	SEA W/	SEA LE PRESS (mb)	DRY BULB	WET BULB
01	64041.6 N 159 30.7 W	CL	06	171	12	1-2	110	4-5	46.2	1009.9	59	5.3
02	54°45.5'N 157°11.2'W	Cl	09	172	13	2-4	,	<u> </u>	5:01	10095	6,5	5.9
03	159 06 6 1	CL	08	175	10	2-4			6.4	1004.0	7.0	6.5
04	55' 04.7'N	CL	07	176	16	1-3	_		6.1	1008.2	ري ن	6.0
05	55° 12 2 ~ 159° 18,4′W	CL/L	05	180	13	1-3			6.4	1008.0	7.0	6.5
06	55° 18.0'N 159° 36.8'W	L	06	165	10		-		5.8	1006.9	6.2	5.1
07	55" 70.4"N 154" 41.6 W	R	08	168	09	1	ļ		5.7	1006.3	6.1	6.0
08	55°75'.7'N 157°45:0'V	R	08	110	08	3			6.1	1005.4	5.9	5.0
09	55° 29.6° 20	CL	06	147	17	3	145	4-5	6.1	1005.9	7.0	6.5
10	55" 32.6"N 1590 12.8"W	CL/R	06	160	20	3-5			5.8		10.4	6.8
11	55. 25.8	CL/R	04	147	25	3-5			6.7	1005.9	2.5	6.9
12	1550 21.2 N	R	4	140	25	3-5		_	6.5	1005.5	7.3	6.9
	55° 16.24 N	R	5	130	25	5-6	(_	6.5	1005.0	6.9	6.7
14	559112N	R	45	135	74	(2-10		/	65	ioos.i	7.5	6.5
15	55 07.5 N	R/4	4-6	117	22	6-9	/	/	10,5	1004.5	^- I	(0.T)
16	55%.37 158,0.5 M	C.L.	6.7	171	19	6.8			6.5	1003.8	6.1	5.0
17	55° 10.3 N 157°51,4 W	Ch	6.8	123	23	6.9	u#	_	6.0	1003.5	60	50
18	55° 13.8 N 157° 43.01 W	ر لـ	5	132	24	6-9	200	6-9	6.1	1003.3	7,5	6.1
19	55° 19.41N	CL	6	132	.2 (1-9		10		\ .		54
20	5825.5 158-06.5	CI	5	120	25	7-10	190	6-9	1. 0	1003.1	13 6	79
21	55930,9 N	<i>(</i>)	5	170	21	10-9	1011	1-8	1010		C) E	20
22	65 34.9 N	CL	6	110	21	5-7	190	6-8	6.6	1003.2	7.0	5.9
23	55° 40.3 N	SL	5-6	117	20	5-7	178	6-9	6.1	1003.7	712	6.0
	65047,9'W 158° 21.1'W	EL	5-6	110	20	5-6	175	8-9	6,4	1003.4	6.9	6.1

NOAA FORM 77-13d (3-76)

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MILLER FREEMAN WED 05/2863 +8 WIND SWELL WAVES THE WEATHER WEATHER WEATHER CLAIM OF THE STATE O	NOAÄ	SHIP					DAY		DATE		TIME ZO	NE	
ME (Lei, and Long) PRESENT (Lei, and Long) DIR. SPEED (Ring) DIR. S		MT,	150	En =	M	0.46				5/-	1111112 20	7	
2 15 5 1 1		11116	LEOK,	$\pi c \nu$	12/11	#1V"	VV.		05/2	2/103	1	<u>~</u>	
2 15 5 1 1		146						T					
2 15 5 1 1	TIME			BILITY M.)	WIN	D	WAVE IGHT 't.)	SWELL	WAVES	ATER MP.	EVEL SURE b)		
2 18 52 18 R 6 110 24 7-8 +75 60 6.1 1003,8 6.0 5.8 3 55.4 55.1 CL 6 095 30 8 170 10 65 1003,5 70 6.0 6 15.7 55.1 CL/R 6 077 25 8-10 200 10 6.5 1003,7 7.0 6.0 5 15.7 40.1 CL/R 6 077 25 8-10 200 10 6.5 1003,7 7.0 6.0 5 15.7 40.1 CL/R 6 078 20 8 200 10 6.5 1003,7 7.0 6.0 5 15.7 40.1 CL/R 6 074 18 7 250 10 6.5 1003,7 7.0 6.0 5 15.7 40.1 CL/R 6 074 18 7 250 10 6.5 1003,7 7.0 6.0 5 15.7 40.1 CL/R 6 080 30 6-7 17.0 8-10 (1.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 7.1 15.7 10019 7.2 10019 7.				VISIE (PV.			SEA HEI			∢⊢	SEA L PRES		
10 24 1-2 175 60 61 1005 6.0 5.8 35 55 55 100	01										Tir		
3 55 55 1 1	02	150 0 C10 W	R	6	110	24	7-8	775	60	6.1	1003,8	600	5.8
5 157 49 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	03	550 46 9	CL	6	095	30	8	170	10	6.5		7.0	
5 157 49 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	04	157° 47.7 W	CLIR	6	697	25	8-10	200	10	6.5	1003.1	7.0	6.0
6 55 21 17 W CLR 6 074 18 7 ZOO 10 6.5 10020 7.2 7.0 7.0 157 25.0 W CL 6 080 30 6-7 1920 8-10 6.7 1001.4 7.2 7.1 8 157 12 10 10 10 10 10 10 10 10 10 10 10 10 10	05	35° 39.9° ~	CL/R	6	083	26	8	200	10	6.5	/003.D	7.0	6,5
1 55 25.0 W CL 6 082 21 5-7 22 10 8-10 (6.7 1001.9 7.2 7.1 8 152 25.0 W CL/R 6 083 30 6-7 17 20 8-10 (6.2 1002.1 7.0 7.0 7.0 9.55 27.0 CL/R 6 083 30 7 12 20 8-10 6.3 1001.9 7.0 6.5 0.55 27.0 CL/R 6 083 30 7 12 20 8-10 6.3 1001.9 7.0 6.5 0.55 27.0 CL/R 6 080 26 6-7 12 20 8-10 6.3 1001.9 7.0 6.5 0.55 27.0 CL/R 0 080 28 6-7 12 20 8-10 6.3 1002.7 8.0 7.5 153 153 163 163 163 163 163 163 163 163 163 16	06	550349W	CL/R	6	074	18	7	700	10	6.5	,	7.2	
8 55 27 3 4 W CL/C 6 083 30 6-7 1720 8-10 6.2 102.2 7.0 7.0 9 55 12.3 1 W CL/C 6 083 30 7 1720 8-0 6.3 1001.9 7.0 6.5 0 55 22.0 1 1220 8-0 6.3 1001.9 7.0 6.5 0 55 22.0 1 1220 8-0 6.3 1001.9 7.0 6.5 0 55 22.0 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.3 1002.7 8.0 7.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.3 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5 1 1220 8-10 6.5	07	157 25,0 W	OL				5-7	220		(0.7			7.1
151-121-121-121-121-121-121-121-121-121-	08	55 27 3 4 15 4 6 4 W	CL/K			30				6.7			70
1 55 22.0 1	09	55.25.12	4	-	· · · ·		7	17000	8-10	6.3			
1	10	S5" 22.0"H		ŀ		- /	6-7	170/11	4-10	1			
2 150 26 07	11	95.51.3-2	. /						8-10	1. 3	I	-	7 5
3 75-20.3 N CL 6 065 30 6-7 08/40 19-15 6.5 1003.5 7.7 6.8 4 15,043.5 N CL 6 065 29 6-7 1950 10-15 6.2 1035 11.5 9.7 5 156.51 W CL 6.7 070 31 6-7 1950 10-15 6.4 1003.5 7.7 6.9 156.51 W CL 8 064 70 7-10 165 6.8 6.4 1003.6 7.7 6.9 157.0 10-15 6.4 1005.1 8.2 7.0 1550 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.	12	1026.07N	01	1	 	20	A#	Blin	10/10	6.		a ci	1
4 5 43,5 N CI 6 065 29 6-7 1990 10-15 6.2 10285 11.5 9.7 5 156 51 W CI 6-7 070 31 6-7 70 10-15 6.4 10235 7.7 6.9 6.5 156 51 W CI 6-7 070 31 6-7 70 10-15 6.4 10235 7.7 6.9 6.5 157 02 V W PC 7 069 22 740 160 6-9 6.5 104.7 1.8 6.8 7 55 51 50 V W W CI 8 064 70 7-10 165 6-8 6.4 1005.1 8.2 7.0 8 55 51.5 N CI 8 055 22 7-8 09040 8 6.1 1005.7 8.1 6.9 55 51 51 51 51 51 51 51 51 51 51 51 51	13	76020 3 0/		<u>-6</u>	-	20	T	nest in	10-15	<u> </u>	_	7.7	1
5 156 51. W CL 6-7 070 31 6-7 70 10-15 6.4 1003.5 7.7 6.7 6.5 151 100 PC 7 069 27 740 160 6-9 6.5 104.7 7.8 6.8 151 100 100 100 100 100 100 100 100 100	14	\$5 35 2 N	Ci	6	115	70	-	140K_	10-10	100		1.1	
6 55 47.00 PC 7 069 22 740 160 6-9 6,5 1004.7 7.8 6.8 157.02.5 W CL 8 064 70 7-10 165 6.8 6.4 1005.1 8.2 7.0 157.1.5 W CL 8 055 22 7-8 09040 8 6.1 1005.1 8.2 7.0 157.1.5 W CL 8 044 21 4-5 1706.0 7.4 6.5 157.2 W CL 8 046 20 4 1906.0 7.4 6.5 157.45.8 CL 8 046 20 4 1906.0 7.4 6.5 157.65.8 CL 8 046 20 4 1906.0 7.4 6.5 157.65.8 CL 8 046 20 4 1906.0 7.4 6.5 157.65.8 CL 8 046 20 4 1906.0 7.4 6.5 157.65.8 CL 8 046 20 4 1906.0 7.4 6.5 157.65.8 CL 8 046 20 4 1906.0 7.4 6.5 157.65.8 CL 8 046 20 4 1906.0 7.4 6.5 157.65.8 CL 8 046 20 4 1906.0 7.4 6.5 157.65.8 CL 8 046 20 4 1906.0 7.4 6.5 157.65.8 CL 8 046 20 4 1906.0 7.4 6.5 157.65.8 CL 8 046 20 4 1906.0 7.4 160.0	15	55,421 N		-	(10)	24	0-1	ון שרו	110-15	1.6		11.2	1
1 55°51.6N CL B 064 70 7-10 165 6-8 6.4 1005.1 8.2 7.0 15°51.5N CL B 044 21 4-5 170 6-7-85.9 1006.0 7.4 6.5 15°51.5N CL B 044 21 4-5 170 6-7-85.9 1006.0 7.4 6.5 15°51.5N CL B 046 20 4 19°120 6-9 5.8 1006.1 7.1 6.0 15°51.5N CL B 040 19 3-4 19°120 6-9 5.9 1006.5 10.5 8.5 15°51.5N CL B 070 18 1-3 140 4-6 6.2 1007.0 35 6.3 15°51.5N CL 06 058 18 1-3 140 4-5 5.8 1007.9 8.6 6.9 15°51.5N CL 08 057 18 1-3 140 5-6 6.0 10080 8.9 7.1	16	55° 47.0'N	00	5	01-6	21	310	1/0	10-15	<i>i</i>		7.7	
137212 CL 8 055 22 7-8 09040 8 6.1 10055 8.1 6.9 157215 CL 8 044 21 4-5 7060 7-85.9 1006.0 7.4 6.5 15725 CL 8 046 20 4 70/16 6.767 5.8 1006.1 7.1 6.6 157672 CL 8 070 19 3-4 7/12 6-9 5.9 1006.5 10.5 8.9 15765 N CL 8 070 18 1-3 140 4-6 6.2 1007.0 35 6.3 15763 N CL 06 058 18 1-3 140 4-5 5.8 1007.9 8.6 15763 N CL 08 057 18 1-3 140 5-6 6.0 10080 8.9 7.1	17	55°51,8N	FC.	0		20			6-0				
56-02-2-N CL 8 044 21 4-5 170 8-9-85.9 1006.0 7.4 6.5 157-315-W 157-315-W CL 8 046 20 4 190/10 6-7-85.8 1006.1 7.1 6.5 150/072 CL 8 070 19 3-4 7/12 6-9 5.9 1006.5 10.5 8.9 150/080 CL 8 070 18 1-3 140 4-6 6.2 1007.0 35 6.3 150/080 CL 06 058 18 1-3 140 4-5 5.8 1007.9 8.8 6.9 150/080 CL/L 08 057 18 1-3 140 5-6 6.0 10080 8.9 7.1	18	5-056.7 N						· , , .				 	1
1 57 672 (L 8 046 20 4 19/10 6.3 5.8 1006.1 7.1 6.0 157 672 (L 8 070 19 3-4 19/12 6-9 5.9 1006.5 10.5 8.9 157 655 N CL 8 070 18 1-3 140 4-6 6.2 1007.9 8.8 6.9 151 34.0 N CL/L 08 057 18 1-3 140 5-6 6.0 10080 8.9 7.1					-		1		8-61		i		-0-1
1 50 172 (1 8 000 19 3-4 1/20 6-9 5.9 10065 10.5 8.9 1 57 6051) CL 8 070 18 1-3 140 4-6 6.2 1007.0 35 6.3 56 32.5 20 CL 06 058 18 1-3 140 4-5 5.8 1007.9 8.8 6.9 151 34.0 0 CL/L 08 057 18 1-3 140 5-6 6.0 10080 8.9 7.1	19	157031511	سات				1	-040	7-8		1006.0	7.4	6.5
56 20.6 N CL 8 070 18 1-3 140 4-6 6.2 1007.0 3.5 6.3 3 56 22 5 N CL 06 058 18 1-3 140 4-5 5.8 1007.9 8.8 6.9 4 56 16 5 W CL/L 08 057 18 1-3 140 5-6 6.0 10080 8.9 7.1		5/14/2					 	מ"זו/	//07	5.8	1006.1	7.1	6.0
3 56° 22. 3 N CL 06 658 18 1-3 140 45 5.8 1007.9 8.8 6.9 4 56° 16 16 W CL/L 08 057 18 1-3 140 5-6 6.0 10080 8.9 7.1	-	157672					7-7	7.17.0	6-9	5.9	10065	10.5	8.5
15134,00 CL/L 08 057 18 1-3 140 5-6 6.0 1000 8,9 7.1		157 965'N			-		 	<u> </u>					6.3
		5606618			_1576								
MARKS			CL/L	00	057	18	1-3	140	5-6	6.0	10000	8,9	17.1
	21 22 23 24 REMAR	157 672 56 20.6 N 56 22.8 N 56 22.8 N 151 54,0 V	cL	8	010 070 658	18	i-3	140	94	-9 -6 -5	-9 5.9 -6 6.2 5 5.8	-9 5.9 10065 -6 6.2 1007.0 5 5.8 1007.9	-9 5.9 10065 10.5 -6 6.2 1007.0 3.5 -5 5.8 1007.9 8.8
							:	**	\				
												·	
. =													

NOÀA :	SHIP				~ III-II	CODJE	TYATIO	N SHEE	÷ 1			
					············	DAY		DATE		TIME ZO	NE	
	MILL	ER FR	2 61	M	200	+40		100/	29/03	4	-8	
		,		<u>~ / · / </u>	V • V	HITU	XVC .	10>/	2-1703	·····		
	POSITION		<u> </u>			Ш			gr.	륁ㅠ	ТЕМРЕ	ATUDE
TIME	(Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIN	<u> </u>	. VA IGHT	SWELL	WAVES	WATER EMP.	LEVE SURE)c
			ISI V	DIR. (True)	SPEED (Kis.)	SEA WAVE HEIGHT (Ft.)	DIR. (True)	HEIGHT (Ft.)	SEA V	SEA LEVEL PRESSURE (mb)	DRY BULB	WET BULB
01	56°05.8.N	CL	68	58	16	1-3	140	6	6.1	1007.0	7.6	7.0
02	157°12.2'W	a	08	40	15	1-3	140	6	6.2	1006,9	7世	7.2
03	56° 02 3° 2 157° 05.5° W	C	08	020	12	2-3	135	6	6,2	1007.5	7.5	65
04	55' 557'N 156' 52,5'W	CL	08	022	15	2-3	140	4-5	6.4	1007.0	8.1	(o.k
05	55 50.7 w 156 43.5 w	CL	08	020	15	2-3	120	4-5	6.5	1006,9	8.0	20
06	55°45.5°W	CL	08	031	18	1-3	120	4-5	6.5	1006.1	7,9	7.1
07	55"42.9.0 156024.6'W	CL	08	029	17	1-3	110	5-6-5	6.5	1006.3	8.0	70
	55 42.31 N	CL	8	022	13	1-3	340	4-5	6.1	10069	7.9	7.6
09	65, 85 4 4 156, 54 5 W	٢٢	8	032	110	1-3	040	4-5	7.0	10015	7.3	6.8
10	56'032'N 156'323'N	CL	8	015	10	1-3	190	4-5	6.8	1007.5	78	6.8
11	156 49:3	CL	8	050	16	1-3	175	4-5	6,1	1008.3	8.1	6.5
12	56° 12.7 N	СГ	8	050	K	1-3	340	5	1			
13	76019 1 N	CL	8'	70		1-5	240	3 45	<i>~</i> 1	1008.1	8,1	6.4
14	50.26.8 N			045	15	17-2	21.5	77	6.1	1008.2	8.0	62
15	50.26.9 N 157971.7 56 86.9N 157 744 W	CI_ PC	10	060	18	7-3	345	4	(0.4	10085	9.7	63
16	56°28.5'A)	PC	10	074		3.	050	10	6,3	1008.5	1500	120
17	157°27.0' w		H_{0}	045	21	3	060	3-5	611	1007.9	10.2	7.4
	137'00,6W	PC	10	040	20	1-3	OBS	3-5	6.5	1008.3		7.4
· · ·	5652 KW	10	10	015	19	1-3	050	_5_	5.9	1008.0	8,0	9.0
T	156°41.7'W	PC_	11	019	15	1-3,	130	4	7.0	1007.9	10.0	8.1
20	56.28 U W	PC	11	020	16	1-3	095	5-5	6.8	1007.	7.7	8,5
21	15619,7 W	PC	i	020	10	1-2	13/090	5-5	70	10070	80	80
22	156 14.5 W	PC_	i/_	010	30 5	>7_	30/100	5-5	77.7	1007.1	3.6	25
23	5557.2 N 15607.4 W	PC	10	006	12	1.5	670	3.4	6.8	1006.6	8.8	8.5
24 A	168 58 AW	PL	10	005	10	1-2	070	3-4	6.7	1006,0	8.8	85

(3-76)	FORM 77-13d		_			NA	TIONAL C	CEANIC	U.S. DI	PARTME SPHERIC	NT OF CO	MMERCE TRATION
_		DEC	K LO	G - WE	ATHER	OBSER	OITAVS	N SHEE	Т			
NOAA	SHIP					DAY		DATÉ		TIME ZO	NE	
	MILL	ER FR	EE	MAN	√ ·	H	T	05/3	0/03	+	8	
		'										
TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIN	D	SEA WAVE HEIGHT (Ft.)	SWELL	WAVES	WATER EMP. Oc	SEA LEVEL PRESSIIRE (mb)	TEMPER 0	C
			VISIIV (PV	DIR. (True)	SPEED (Kts.)	SEA HE	DIR. (True)	HEIGHT (Ft.)	SEA V	SEA PRES	DRY BULB	WET BULB
01	56016.2.W	PKL	80	10	12	2-3	070	3-4	7.7	1006.0	9,0	8.8
02	56-19.6- 156-200-W	CL	08	14	18	2-3			7.5	1006.j	9.0	8.0
03						1						
04	56° 25.8'N 156° 32.0'W	PC	08	023	12	2-3			7.0	1005.5	8.0	7.5
05	56°31.2'N	PC	08	042	22	2-3	040	3-4	6.6	1005.9	7.8	7.4
06	156 55.61W	PC	08	046	18	2-3	080	3-4	6.7	1005.8	7.8	7.4
07	50039.81N	PC	09	297	05	1-2	080	2-3	6.0	1006.2	8.2	7.4
08	56° 40.6'N	PC	09	030	18	1-2	080	2-3	6.5	1606.0	10.0	8.4
09	156, 11.6.0	PC	08	038	25	2-3	075	3-4	6.5	1005.1	10.0	8.5
10	156. 42.6.	PC	08	015	22	2-3	080	3-4	6.7	1005.8	10.0	8.0
11	156 37.9 2 156 285 W	PC	08	020	22	2-3	080	3-4	6.9	1004.4	9,5	8.1
12				UP,	<u></u>	-	 					
13	76° 26.7 N	CL	08	250	15	3-4	100	5-6	7.0	1003.9	40.0	9.8
14	13953.6	CL	05	046	4	1	095	5-7	6.8	1004:	10.3	9.6
15	56°35.4 N 155°57.5 W	<u> </u>	07	098	9	1-2	095	5-7	7.2	10045		10.5
16	156055W	cl	06	099	10	1.2	095	5.7	7.4	1004.9	17.3	11.0
17	126 18.1 M	CL	06	068	06	1.3	045	5.0	7.4	1004.9		8.0
18	50°52.5'N	رد	08	013	06	1-2	040	4-5	6.7	1005.0	8.0	7.0
19	56° 575'N 156° 21.3'W	CL	09	303	04	1-2	050	3-4	7.1	1004.8		8.3
20	58532 N 1560441 W	,Ch	09	300	10	1-7	050	3-5	7.7	1004.2	10.0	9.0
21	56'45.0'2		OP	>			****	proper people with	- 4			
	1155 50 3 WI	CL	08	316	10	1.2	0410	4	6.8	1003.6	8.9	7.9
23	56,34.0 W	e v.	07	321	07	1-2	040	3-4	7.5	1002.9	1	7.9
24 REMAR	6604444W	CL	08	330	09	11-2	040	3-4	7.6	1002.3	18.9	8.8
Λ_		·	-ر. ۱۸.	. به سور . _{دا} ود	· .					<u> </u>		
<i>⋈</i> (200 weath	er Not C	013 S E 1	RUER								· · · · · · · · · · · · · · · · · · ·
												
	11											
						-						

NOAA				_		OBSER			• •			
				-		DAY		DATE		TIME ZO	NE	
	MILLE	RFRE	EN	MAN		154	+T	05/3	1/03	+3	?	
		,		T-		-		·-				
TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIN	D	SEA WAVE HEIGHT (Ft.)	SWELL	WAVES	ATER	EVEL SURE	TEMPER	ATURE
			VISIB (N.	DIR. (True)	SPEED (Kts.)	SEA HEI	DIR. (True)	HEIGHT (Ft.)	SEA WATER TEMP.	SEA LEVEL PRESSIRE (mb)	DRY BULB	WET
01	56°51:4:N 155°35.3:W	ch	8	050	09	1-2	040	3-4	7.2	1002.3	8.9	25
02	56057.3 W 155046.6 W	CL	8	060	09	1-7	040	3-4	7.1	leo 2.5	8,9	8.5
03	155.57.2	<u> </u>	8.	068	12	1-2			7.2	10020	8,0	7.0
04	57" 08.6" 2 156" 02.9" 4 57114,000	CL	8	045	10	1-2	647	3-4	7.1	DOZ D	7.2	7.0
05	155'51.7'W	CL	8	080	08	1-2	045	3-4	7.3	1002-0	8.0	7.0
06	57°07.7'N 155° 39.7'W	CL	8	030	03		040	2-3	7.0	1002.0	_	7.2
07	57°00.7'N 155°26.2'W	PC	8	308	03	41	040	2	7.2	1002.0	8.7	8.0
80			8	343	04	-4-	020	23		(CC		
09	54°04.9' N		<u> </u>	ļ								
10	155"08.1'W	PC	8	343	04	41	020	2.3	7.2	10028	10.8	9.C
11	57° 10 817	PC	11	030	فأن	41	030	2	7.4	1002.0	79	6.0
12	57"16.2 NN 155028.8 W	PC	10	064	//	1-2	210	3	7.3	1002.1	15.9	49
13	57 22.8 W	PC	10	055	17	2-3			7.2	1001.8	10.5	9.9
14	57 27.2 W	PC	10	045	21	3		-	7.1	100i.7	8.5	7.2
15	57623.7	PC	10	025	22	2-3	·-	-	7.5	1001.3	8.7	8.0
16	57183r	PC	10	019	23	1-3	040	3-4	7.4	ipol.o	8.6	8.1
17	57° 20.7 N 158°01.0 W	PC	10	074	19	3-4	040	4-5	7.3	1800.3	8,8	7.7
18	57° 24.6'N	PC	10	057	24	2-3	040	3.5	7.2	1001.5	8.1	7.1
19	57° 34.7'N	PC	10	045	23	2-3	050	3-5	8.1	1001.6	_	7.4
20	530425	PC	JO.	053	1/2	2-3		1	8.3	1002	11.0	9.6
21	155° 15.4'N	CL	10	068	aà	3-5	/		8.3	1003.0	9,7	8.0
22	57 724 N	Cie	10	047	19	3-4	1	-	8.1	1003.0	8.7	つ・フ
23	155° 10.3' N	CL	10	050	18	3-\$	035	3-5	8.4	1003.5	9.0	7.6
		1										

POSITION Lat. and Long.) 57° 38.3' N 155° 04.2' W 57° 38.2' N 57° 36.3 N 155° 00.60 57° 30.2' N	PRESENT WEATHER	O O VISIBILITY (N.M.)	DIR. (True)	SPEED (K(s.)	SEA WAVE HEIGHT	SWELL DIR. (True)	WAVES HEIGHT	SEA WATER TEMP.	SEA LEVEL	TEMPER 0	<u>c</u>
57°38.7" 155°04.2" W 57°38.2" N 55°04.2" W 57°36.5 N 155°0.6 W	PC CL	10	DIR. (True)	SPEED (Kts.)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	DIR.	HEIGHT	EA WATER TEMP.	SA LEVEL RESSURE (mb)	0	<u>c</u>
54°38'.2'N 55°64.2'N 5736.5N 1550660	CL	10	(True)	(Kts.)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			¥ <u>1</u>	RES (m)	DRY	
54°38'.2'N 55°64.2'N 5736.5N 1550660	CL		030	15				v itt	พี่ ฉี	BULB	BULB
55° 04.2' W 57 36.5 N 155 00.660		ıΛ			3	_	-	8.2	1003,5	8,5	7.3
155 00 · 660	Λ	10	030	20	3-4	-	-	8.2	1003.6	9.0	8,0
つ ブグラル・フィスノー し	PC	01	055	22	4			7.8	1004.0	8.7	8,5
55° 00, 2'W	PC	08	044	25	2-3	040	4	7.8	1004.0	8.1	7.0
51°5911'N	PC_	09	096	24	2-3	035	3~5	6.8	1003.9	8,0	7.0
57°32.9'N 54°52.8'W	PC	10	043	16	1-3	040	3-5	6.6	1004.1	8.0	7.2
34 52.5 W	PC	10	046	18	1-3	040	3-5	6.5	1005.0	7.1	6.1
54°47.2'W	PC	10	043	21	1-3	020	3-5	6,5	106.3	8.6	8.3
540 46.8 m	PC	08	050	20	1-3	020	3-5	6.7	1006.i	7.0	6.5
54648.5' W	PC	09	061	23	3-4		3	6.9	1007.4	8,5	7.5
55.00 00 in	PC	08	068	22	7-4		3.50	7.7	100%5		9.0
10474 N	PC	8		22	3-4		_	79			9.0
7849.4 N 54 45.5 W	PC			26	34	_		7.4	11111	80	7.1
6°46.021	PC		045	17		/	/	7/			8.5
57354.5 N 54 16.7 W	PC	· · ·	040	17	3-4			771		11 /	(O, T
51° 57.0' N 54° 12.0' W	PC.	1	054	18	2-4			8 2		11 -4	9,5
58503.8 W	PC		646		1-3	_	-				10.3
8009.1 N					1-3	1				**	10.9
											8.0
38" 22 D				I .——						10 1	9.8
Bill & N					1					05	7.5
8 2 33. U N	CI.		110		1-7	/	/			•	7.6
59 3 3.4 N	CL			1		_	_		,	4	9.3
58°42.9'M										90	9,1
	54°52.8° W 57°539.0° N 54°52.8° W 7°30.3° W 54°47.2° W 54°47.2° W 54°47.2° W 54°47.2° W 54°47.2° W 54°47.4° W 54°44.6° W 54°44.6° W 54°44.6° W 54°44.6° W 55°54.5° W 55°54.	54-52.8. PC 57-33.0. N 54-52.8. W 64-52.8. W 64-61.7. W 64-61.7. W 64-61.8. M 64-61	54.52.8.00 PC 10 57.53.00 N PC 10 57.53.00 N PC 10 57.53.51N PC 08 57.55.51N PC 8 57.55.51N PC 10 57.55.50.1N PC 10 57.55.51N PC 10 57.	54-52.8 D PC 10 043 57-33.0 N PC 10 046 57-30.3 N PC 10 045 54-47.3 N PC 08 050 78-35.5 N PC 09 061 78-35.5 N PC 08 068 78-35.5 N PC 08 068 78-35.5 N PC 8 060 78-35.5 N PC 10 055 78-35.6 N PC 10 055	54-52.8 D PC 10 043 16 57-33.0 D PC 10 045 71 54-52.8 D PC 08 050 20 7-35.5 N PC 09 061 33 7-35.5 N PC 08 068 22 7-35.5 N PC 8 060 23 7-35.5 N PC 8 040 17 51-57.0 D PC 8 046 09 51-57.0 D PC 10 054 18 51-57.0 D PC 10 055 10 51-77.0 D PC 10 055 10 51-77.0 D PC 10 055 17 51-	54-52.8.2 PC 10 043 16 1-3 27-53.0. N PC 10 046 18 1-3 27-53.0. N PC 10 046 18 1-3 27-53.0. N PC 08 050 20 1-3 27-53.5. N PC 08 050 20 1-3 27-53.5. N PC 08 068 22 7.0 27-47-4 N PC 8 060 22 3-9 27-47-4 N PC 8 060 22 3-9 27-47-4 N PC 8 055 26 24 27-47-4 N PC 8 040 17 3-4 27-45-5 N PC 8 040 17 3-4 27-57-57-57-57-57-57-57-57-57-57-57-57-57	54-52.8 W PC 10 043 16 1-3 040 27-53.0 W PC 10 046 18 1-3 040 27-30.3 W PC 10 045 21 1-3 020 27-30.3 W PC 10 045 21 1-3 020 27-30.3 W PC 09 061 23 3-4 27-35.5 N PC 09 061 23 3-4 27-35.5 N PC 08 068 22 3-4 27-47.4 N PC 8 060 22 3-4 27-47.4 N PC 8 060 22 3-4 27-47.4 N PC 8 040 17 3-4 27-47.4 N PC 10 054 18 2-4 27-47.4 N PC 10 055 10 1-3 28-32.1 N PC 10 055 10 1-3 28-32.1 N PC 10 055 17 1-2 28-32.1 N PC 10 055 17 1-3 28-32.1 N PC 10 055 17 1-3	54.52.8. PC 10 043 16 1-3 040 3-5 37.53.0. PC 10 046 18 1-3 040 3-5 37.53.0. PC 10 045 21 1-3 020 3-5 37.53.0. PC 08 050 20 1-3 020 3-5 37.53.5. PC 08 050 20 1-3 020 3-5 37.42.5. PC 8 060 22 3-4 37.42.5. PC 8 060 22 3-4 37.42.5. PC 8 060 22 3-4 37.42.5. PC 8 045 17 3-4 37.42.5. PC 8 040 17 3-4 37.53.0. PC 10 054 18 2-4 37.53.0. PC 10 054 18 2-4 37.53.0. PC 10 055 10 1-3 - 37.50.0. PC 10 055	54 52.8 W PC 10 043 16 1-3 040 3-5 6.6 6 57 33.0 W PC 10 045 71 1-3 070 3-5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.	54 52 5 W PC 10 043 16 1-3 040 3-5 6.6 1004.1 24 32.5 W PC 10 046 18 1-3 040 3-5 6.5 1005.0 77 30.3 W PC 10 043 71 1-3 020 3-5 6.5 1005.3 24 32.5 W PC 08 050 20 1-3 020 3-5 6.7 1006.1 24 32.5 W PC 09 061 33 3-4 9 6.9 1001.4 25 35.5 W PC 08 068 22 3.4 27 40.4 W PC 8 060 22 3-9 - 7.9 1009.1 24 45 5 N PC 8 055 26 34 - 7.9 1009.1 24 45 5 N PC 8 040 17 3-4 9 7.4 1011.2 25 35 51.3 W PC 10 054 18 2-4 8.2 1011.1 25 35 51.3 W PC 10 055 10 1-3 - 8.0 1017.1 25 35 51.3 W PC 10 055 10 1-3 - 8.4 1013.1 25 35 14.2 W PC 10 055 10 1-3 - 8.4 1013.1 25 26.1 W PC 10 055 10 1-2 98.4 1015.2 25 26.1 W PC 10 055 17 1-2 98.4 1015.2 25 26.1 W PC 10 055 17 1-2 98.4 1015.2 25 26.1 W PC 10 055 17 1-2 98.4 1015.2 26 27.1 W PC 10 055 17 1-2 98.4 1015.2 26 27.1 W PC 10 055 17 1-2 98.4 1015.2 27 28 1016 8 27 28 101 10 10 1-2 98 1016 8 27 28 1016 8	54-52.8 1 PC 10 043 16 1-3 040 3-5 6.6 1004.1 8.0 24-32.8 1 PC 10 046 18 1-3 040 3-5 6.5 1005.0 7.1 24-32.8 1 PC 10 045 71 1-3 020 3-5 6.5 1005.0 7.1 24-32.8 1 PC 08 050 20 1-3 020 3-5 6.7 1006.1 7.0 23-35.5 1 PC 08 050 20 1-3 020 3-5 6.7 1006.1 7.0 23-35.5 1 PC 08 068 22 3-4 PC 08 068 9.5 24-32.8 1 PC 08 068 22 3-4 PC 1008.5 9.5 24-32.8 1 PC 8 040 17 3-4 PC 100.0 105.5 24-32.8 1 PC 8 040 17 3-4 PC 100.1 10.5 24-32.8 1 PC 10 054 18 2-4 8.2 101.1 11.4 23-36.1 PC 10 055 10 1-3 - 8.0 107.1 11.7 23-36.1 PC 10 055 10 1-3 - 8.4 1013.1 9.8 24-32.1 PC 10 055 10 1-3 - 8.4 1013.1 9.8 24-32.1 PC 10 055 17 1-2 PC 104.3 10.1 24-32.1 PC 10 055 17 1-2 PC 104.3 10.1 24-32.1 PC 10 055 17 1-2 PC 104.3 10.1 24-32.1 PC 10 055 17 1-2 PC 104.3 10.1 24-32.1 PC 10 055 17 1-2 PC 104.3 10.1 24-32.1 PC 10 055 17 1-2 PC 104.3 10.1 24-32.1 PC 10 055 17 1-2 PC 104.3 10.1 24-32.1 PC 10 055 17 1-2 PC 104.3 10.1 24-32.1 PC 10 055 17 1-3 - 8.4 1013.1 9.8 24-32.1 PC 10 055 17 1-3 - 8.7 1015.3 8.7 24-32.1 PC 10 055 17 1-3 - 8.7 1015.3 8.7 24-32.1 PC 10 055 17 1-3 - 8.7 1015.3 8.7 24-32.1 PC 10 08 10 11 1.3 - 8.7 1016.8 10.0 24-32.1 PC 10 8 106 13 1-3 - 7.8 1017.4 9.8

					4							
NOAA (3-76)	FORM 77-13d				···	NA.	TIONAL C	CEANIC	U.S. DI	PARTME	NT OF CO	MMERCE TRATION
		DEC	K LO	G - WE	ATHER	OBSER						
NOAA						DAY		DATE	•	TIME ZO	NE	
	MTI	ER F	0 1	و حمد ا	1.4 (,			1 <	7	
<u> </u>	110.Tr	- L C /	16=	<i>۱۱۱۱</i> تا	+rv	Mo	n/	62-7	uN-03	+2	<u></u>	
(3)	· ·			1		<u> </u>	_					
TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	(£)	WIN	D	YAVE SHT	SWELL	WAVES	WATER EMP. Oc.	EVEL IFRE	TEMPER	RATURE C
			VISIBILITY (N.M.)	DIR.	SPEED (Kts.)	SEA WAVE HEIGHT (FL)	DIR.	HEIGHT	SEA W.	SEA LEVEL PRESSIRE (mb)	DRY BULB	WET BULB
01	1521414W	CL	08	122	14	4 -3		(1)	65	1017,4	8.8	3,6
02	53 31.6 N	CL	28	140	13	1-3				1018.1	9.3	9,1
03	151° 55.1° W	CI	08	137	12	1-3			6.8	1019.0	9.0	7.9
04	15/0 55.9 20	CL	08	143	10	1-3			21	1019-1	9.0	80
05	,								//	10117	170	0.0
06						_						
07										-		
08												
09												
10												
11												
12												
13												
14												
15												
16									• •			
17												
18												
19		·										
20												
21		<u> </u>										
22												
23					ļ							
24		<u></u>										
REMAR	RKS						,					
	<u></u>								-			
										·		
										<u></u>		
 _												
<u> </u>												

	SHIP		W.			DAY		DATÉ		TIME ZO	NE	
	MILLER	FREEMA	N			an Si	inday	01-Ju	N -2003	+8		
		•				*						
ME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIN	D	EA WAVE HEIGHT (Ft.)	SWELL	WAVES	EA WATER TEMP.	EVEL	TEMPER	
	·		RISI V	DIR.	SPEED (Kts.)	SEA V HEI	DIR. (True)	HEIGHT (Ft.)	SEAW TEN	SEA LEVEL PRESSURE (mb)	DRY BULB	WET BULB
1	57°38.3" W 155°04.2" W	PC	10	030	15	3	_	-	8.2	1003,5	8,5	7.3
2	57° 38.2'N 155° 04.2'W	CL	10	030	20	3-4		_	8.2	1003.6	9.0	8,0
3	57 36. SN 155 00.660	PC	Gi	055	22	4	< i€		7.8	1004.0	8.7	8,5
4	57'30.Z'N	PC	08	044	25	2-3	040	4	7.8	1004.0	8.1	7.0
5	57°59.2'N	PC	09	OHO	24	2-3	035	3-5	6.8	1003.9	8,0	7.C
6	57.32.91N 154.52.81W	PC	10	043	16	1-3	040	3-5	6.6	1004.1	8.0	7.2
7	57°33.0' N	PC	10	046	18	1-3	040	3-5	6.5	1005.0	7.1	6.
8	54°47.7 W	PC	10	043	21	1-3	020	3-5	6,5	106.3	8,6	8
19	57: 30.3.2. 154: 46.8 m	PC	08	050	20	1-3	020	3-5	6.7	1006.i	7-0	6.
0	57° 35,51N 154648.51 W	PC	09	061	23	3-4		3	6.9	1007.4	8.5	7:5
1	57. 42.5 W	PC	08	068	22	- A - (1)		a diametric	7.7	1008.5	9,5	9.0
2	510474 N 15454.1W	PC	8	060	27	3-4		_	7.9	1004.1	10,0	9.0
3	37549.4 N	PC	8	055	26	34		_	7.4	13/20	8.0	7.1
4	56.46.0 2 1 154131.7 n	PC	8	045	17	3-4	/	/	7.6	1010.1	i05	85
5:3	57 \$54 5 N 154 16.0 W	PC	8	040	17	3-4			74	1011.2	11. /	10,7
6	51°57.01,1 154° 12,010	PC_	10	054	18	2-4			8.2	ion, i	11.7	9.5
7	58,500,80	PC	10	646	09	1-3	-	-	8.0	1017.1	11.7	10.3
8	58°04.1 N 153°50.1 W	PC	10	055	12	1-3	_	~		10/2,3	12.0	10.9
9	58" 14.2" N 153" 41.1" W	PC	10	055	10	1-3	-		8.4	1013.1	9.8	8.0
0	38"22.0 155°26.1	M CL	10	060	08	1-3			8.4	1014.3	10,1	9.8
1	153°16.) W	CL	10	055	12	1-2			84	1015.2	25	75
	18 23 SE 1 N	CL	10 00	110	10	1-2	/	/	7.9	10153	8.7	7.6
2			പ്ര	104	11	1.3	_	-	8.2	1016 8	10.0	9.3
2 3	58 3 4.4 8 52 52.1 V 58 47.9 M 15 6 30,1 V	CL	08	1007	1	1. ~		1	0, -	1,4 4 ()	1	, , ,)

NOAA FORM 77-13d (3-76) U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION DECK LOG - WEATHER OBSERVATION SHEET NOAA SHIP TIME ZONE MILLER FREEMAN Mon 62-JUN-03 VISIBILITY (IV.M.) WATER SEA WAVE HEIGHT (Ft.) SEA LEVEL PRESSURE (mb) TEMPERATURE POSITION WIND PRESENT WEATHER SWELL WAVES TIME 0_C (Lat. and Long.) SEA DIR. SPEED DIR. HEIGHT DRY WET BULB (True) (Kts.)(True) BULB (Ft.) 55° 12.9° ~ 151° 55.9° ~ 151° 55.9° ~ CL 01 08 14 122 **4**-3 3,6 13 02 10/8,1 140 9.3 9.1 08 137 1-3 6.8 7.9 0.3 04 08 143 10 9,0 80 1019-1 05 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 REMARKS

NOAA FORM 77-13D (3-76) SUPERSEDES NOAA FORM 77-13D (7-72). EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION. *U.S GPO 784-006/11040