

平塚沖波浪観測資料 (2)

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Wind Wave Observation off Hiratsuka (2)

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Abstract

Wind waves were observed at the marine observation tower off Hiratsuka in Sagami Bay by use of a capacitance-type wave-gauge. Mean values of wind speed and direction, the tide and the atmospheric pressure are measured, as information of sea surface, by the aero-vane, a pressure gauge and the aneroid barometer, respectively. Data were gathered every one hour through the computer-based telemetering system. Wave statistics were done on the basis of the zero-up-cross method and the spectral analysis method.

These measurements were summarized at four seasons.

1. はじめに

近年、沿岸における自然災害の防止のために、ますます沿岸域の海に関する精度の高い情報が必要となってきた。平塚支所は、このような観点から、主として相模湾の海象、気象の常時観測及び実験等の研究を行なっている。

これらの得られた観測データを整理し、その一部を、1979年3月に平塚沖波浪観測資料(1)として発行した(防災科学技術研究資料第38号)。その資料には、1978年11月7日から1978年12月28日までの毎時の波浪の特徴的な波高と周期の値及びパワー・スペクトル分布が示されている。

今回は第2集として1979年1月から同年8月までの観測データをもとに次のことを解析した。第1として、波浪のデータのほかに潮汐、風速、風向そして気圧のデータを掲載した。第2として、海象の季節変化を調べるために、毎月の風向風速及び波浪の統計的分布を求め、その結果を示した。第3として、強風時に発達した代表的な風波について、毎時のパワー・

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スペクトル分布を示した。

今後さらに、この研究資料を充実させるために、この資料に毎時の水温及び流速のデータを加える予定である。

2. 波浪観測の方法

波浪等観測塔は相模湾の平塚沖、約1km、水深約20mの地点（東経139°20′，北緯35°18′）に設置されている。この地点は、西側には伊豆半島，東側には三浦半島があり，南には約50km先に大島がある。そのために風による波浪が大きく発達するのは，南東から南西の南寄りの風の場合である。北寄りの風による波浪の発達は，吹送距離が短いためにほとんどない。この観測塔に容量型波高計と圧力式波高計（深さ約4m）を設置した。波浪の波高観測は容量型波高計で行なった。波高計のセンサーは5mmφの引込用被覆動力線を使用し，約15kgの錘をつけて水深約10mまで垂らしてある。容量型波高計の特長は，圧力式波高計と比べ波に対する応答が早く，周期の短い波も観測出来ることであり，また図1に

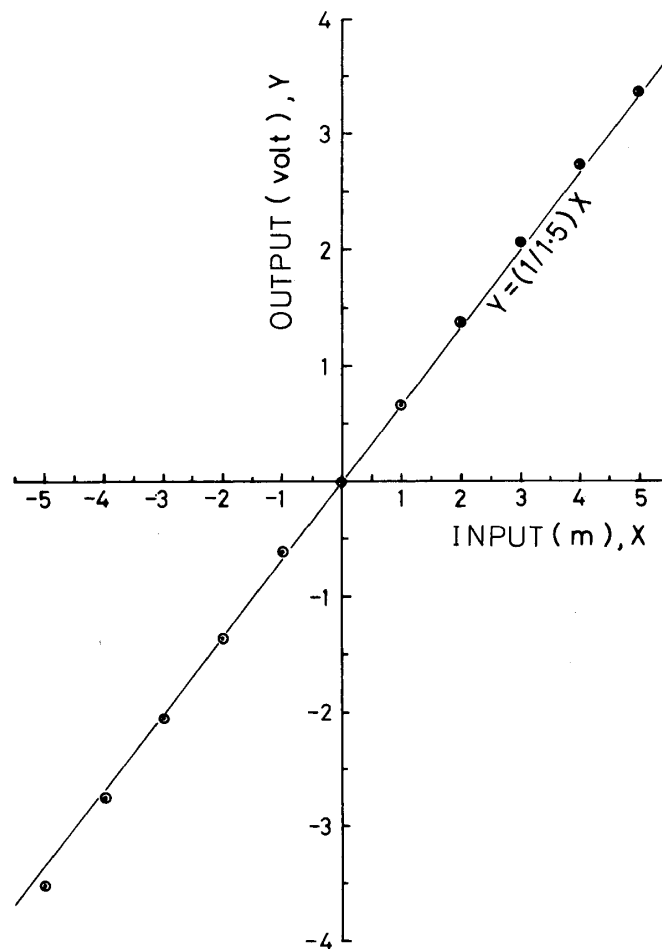


図1 容量型波高計の入出力特性

示す入出力特性から、波高に対する信号出力の直線性が極めて良いことが判る。欠点としては、センサーに生物（主として藻）や浮遊物が付着しやすいことである。これらのものが付着すると、センサーの静電容量の変化が水面の変動に応答しなくなり、ほぼ一定になってしまう。そのために、陸上施設にあるモニタ用のアナログ記録で正常な波であるかどうかを常に監視し、ほぼ2週間に一度、観測塔へ行きセンサーの掃除を行なっている。

潮汐のデータは、圧力式（ストレーンゲージ）の波高計の出力に60秒以下の周期をもつ波をカットオフするフィルターをかけた記録を用いている。

風速・風向は、陸上のエアロベン（高さ約20m）で測定した。

気圧は陸上施設にあるアネロイド気圧計で求めた。

3. データの処理

波高計のデータは、次のように処理されている。波高計の出力が海底ケーブルによって陸上の電子計算機に送られ、1時間毎に正時から10分間、サンプリング間隔0.3秒で採取される。このデータをもとにゼロアップ・クロス法による波浪統計及びパワー・スペクトル分布が求められる。パワー・スペクトル分布はLag数を100（30秒）で計算した。

4. 図表の見方

本資料は季節毎にまとめられている。冬期は12月から2月まで、春期は3月から5月まで、夏期は6月から8月まで、そして秋期は9月から11月までとした。

今回は1979年の冬期、春期、そして夏期のデータをまとめたものである。各々の季節の3カ月分のデータは次の項目から構成される。

(1) 毎時の波浪の特性、潮汐、風速、風向、そして気圧の数表

HOURL	データ取得時刻（正時より10分間）
WAVE NUMBER	ゼロアップクロス法による波の数
H (1/3)	有義波（1/3最大波）の波高（cm）
T (1/3)	有義波の周期（sec）
H (MAX)	最大波高（cm）
T (MAX)	最大波高の周期（sec）
TIDE	潮汐（cm）、正時から30秒間の平均値
WIND VEL	陸上の風速（m/s）、正時から10分間の平均値
WIND DIR	陸上の風向（16方位）、正時から10分間の平均値

PRES

気圧 (mb), 正時の瞬間値

(2) 1カ月間の波浪の有義波の波高と周期の頻度の数表 (表1)

周期は T (sec) で波高は H (cm) で表わした。周期の場合, 例えば, 5秒の波ということとは4.5秒以上5.5秒未満の周期をもつ波を意味している。但し15秒の波は14.5秒以上の周期をもつ波を意味する。

(3) 1カ月間の風向風速分布 (図3)

風向の頻度分布は上図で, 各々の方向の目盛は回数を表わす。風速の方向分布は下図で, 各々の方向の目盛は風速の大きさ (m/s) を示す。この図をかけ合わせると1カ月間の空気の流量の方向分布が示される。

(4) 1カ月間の有義波の波高と周期の頻度分布 (図4)

(2)の表を見やすくするために, グラフにプロットしたものである。平塚沖では, 風波成分の周期は5秒から7秒程度であり, うねりの周期は7秒以上となる。

(5) 季節の代表的な風波の発達について

各々の季節の強風時 (低気圧の通過時) に発達した代表的な風波の発達について, その時の速報天気図と毎時のパワー・スペクトル分布を示した。パワー・スペクトル分布図において, データ取得時の時刻と風速・風向をも記載されている。図2の場合では, データ取得時刻は, 1979年2月22日20時で, その時の風速と風向は, それぞれ $4 m/s$ と北北東であったことを示す。また, 横軸には周波数 (H_z) の常用対数がとってある。たとえば, “0” は $1 H_z$, “1” が $10 H_z$ を表わしている。縦軸は, パワー・スペクトル密度 $E(f)$ ($cm^2 \cdot s$) の常用対数表示である。

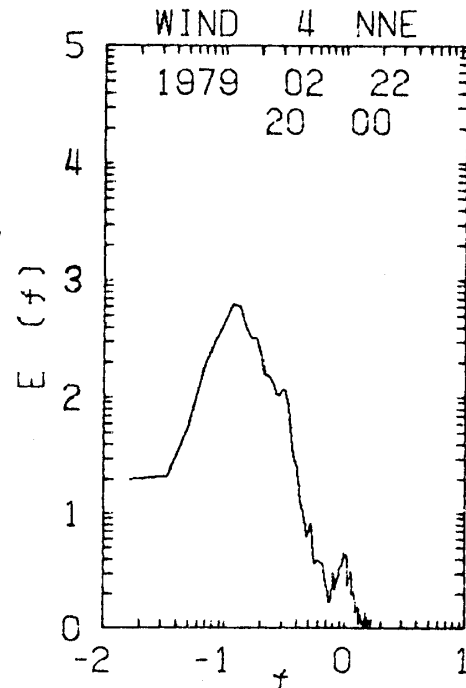


図2 波浪のパワースペクトルの例示

冬 期

1978年12月 ～ 1979年 2 月

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HOUR	WAVE NUMBER	19/9		01 04		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0							0		0
1							0		0
2							0		0
3							0		0
4							0		0
5							0		0
6							0		0
7							0		0
8							0		0
9							0		0
10							0		0
11							0		0
12							0		0
13	125	21.4	7.5	33.3	6.3	96.1	0		0
14	125	24.4	7.0	36.6	9.3	83.4	0		0
15	130	27.3	7.2	41.7	7.5	80.5	0		0
16	131	24.7	7.2	35.9	9.3	87.1	0		0
17	125	26.8	7.4	40.3	9.0	94.5	0		0
18	140	24.2	6.9	50.2	6.9	108.3	0		0
19	143	25.4	6.8	42.5	9.9	121.1	0		0
20	121	30.2	7.6	49.4	9.0	131.3	0		0
21	144	26.8	7.1	47.2	8.1	131.5	0		0
22	143	27.1	6.7	44.7	6.6	123.2	0		0
23	151	26.8	7.3	46.1	8.4	108.5	0		0

HOUR	WAVE NUMBER	19/9		01 05		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	156	25.0	6.1	42.8	8.4	89.0	3	N	1013
1	139	27.1	7.3	43.2	7.2	70.4	4	N	1013
2	130	22.4	7.3	32.2	6.3	60.2	4	N	1013
3	159	22.8	6.3	35.2	6.0	54.3	1	N	1012
4	162	21.7	6.1	35.2	9.6	63.7	4	N	1011
5	166	22.4	6.5	39.6	7.8	78.1	4	N	1012
6	152	24.1	6.4	42.8	7.8	98.8	4	N	1012
7	160	25.0	6.1	38.5	6.3	121.1	4	N	1012
8	165	24.5	6.0	47.6	7.5	140.9	4	N	1012
9	149	27.7	6.8	47.6	7.2	152.8	4	N	1012
10	134	26.7	6.5	39.2	7.5	157.4	4	N	1012
11	114	31.6	8.1	46.9	7.5	150.3	2	N	1010
12	156	28.2	6.3	42.1	7.2	137.5	1	NE	1008
13	123	30.7	7.3	49.4	9.9	118.6	2	SE	1007
14	129	30.1	7.6	43.6	9.0	103.2	3	SSE	1007
15	191	34.1	4.1	59.7	9.6	91.7	2	S	1007
16	203	33.2	4.0	58.6	8.4	87.6	5	S	1008
17	170	36.0	4.5	58.6	4.5	87.3	3	SSW	1009
18	151	42.4	4.8	67.7	4.8	94.3	1	W	1010
19	133	45.2	5.5	60.4	4.5	104.3	2	NNW	1011
20	124	54.0	6.1	74.3	5.7	114.2	3	NNW	1012
21	125	53.0	6.5	81.3	7.8	123.4	2	N	1012
22	134	48.7	6.7	95.2	6.3	125.8	3	NNE	1013
23	108	49.2	6.7	68.5	7.5	120.9	3	NNW	1014

HOUR	WAVE NUMBER	1979		01 06		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	121	54.4	6.9	86.1	7.2	111.0	4	N	1014
1	149	40.9	6.3	75.4	6.0	97.5	3	N	1015
2	173	30.8	6.2	53.8	6.9	85.3	5	NNE	1016
3	158	26.8	6.5	47.6	7.2	78.9	5	NNE	1017
4	162	24.3	6.2	42.1	6.3	75.0	5	NNE	1018
5	178	21.1	5.5	45.4	9.6	80.4	5	NNE	1019
6	200	22.8	4.6	39.6	6.6	91.5	4	N	1019
7	206	23.8	4.4	46.5	10.5	106.6	4	N	1020
8	235	25.7	3.6	41.0	5.1	123.5	4	NNE	1020
9	229	26.6	3.5	41.0	7.8	136.6	5	NNE	1021
10	225	30.4	3.4	46.5	2.4	142.1	6	NE	1022
11	225	33.0	3.3	47.2	3.6	142.8	7	NE	1022
12	207	32.1	3.5	54.9	5.7	132.2	6	NE	1021
13	222	27.9	3.6	49.1	5.4	119.1	6	NE	1021
14	203	35.7	3.9	57.1	3.0	103.2	5	NE	1021
15	203	31.4	3.9	53.8	7.8	85.7	6	ENE	1021
16	203	32.9	4.2	50.2	7.5	72.6	4	E	1022
17	162	29.0	5.6	47.2	5.7	63.9	4	E	1023
18	143	27.6	6.6	45.0	6.3	60.5	4	E	1024
19	155	28.7	6.1	49.1	8.1	62.1	1	N	1024
20	171	32.6	4.8	57.9	7.2	71.9	2	NNW	1025
21	147	35.9	5.6	63.4	9.0	82.7	2	NNW	1025
22	155	32.5	5.0	55.7	7.5	92.7	3	NNW	1025
23	170	27.6	5.5	57.5	7.2	98.4	3	NNW	1025

HOUR	WAVE NUMBER	1979		01 07		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	150	27.6	6.1	51.3	8.1	100.9	3	N	1024
1	138	29.7	7.2	53.1	7.5	96.5	3	N	1023
2	130	26.5	7.8	46.9	9.3	91.9	4	N	1023
3	152	23.1	6.8	45.0	8.1	85.8	4	N	1022
4	162	22.3	6.5	43.9	9.6	81.6	4	N	1021
5	157	22.2	7.1	37.0	10.8	80.7	4	N	1021
6	145	23.0	7.3	39.2	9.3	85.5	4	N	1020
7	153	23.4	7.2	38.8	7.8	96.3	4	N	1020
8	149	23.8	6.9	38.8	6.9	107.1	4	N	1020
9	163	26.7	6.8	43.6	8.4	121.1	4	N	1020
10	176	24.9	5.8	47.2	8.1	132.0	3	N	1020
11	169	23.0	6.1	40.3	12.0	136.6	3	N	1019
12	159	27.2	6.4	56.8	7.8	133.8	4	N	1017
13	192	24.3	5.3	42.8	8.1	127.6	4	N	1016
14	154	27.2	7.2	47.2	9.0	114.7	4	N	1015
15	132	30.5	7.0	54.9	8.1	99.7	4	NNE	1015
16	119	38.2	7.4	56.0	7.5	81.4	4	N	1016
17	116	40.9	6.7	57.1	6.9	64.4	3	NNE	1016
18	113	35.6	6.5	51.3	6.3	55.4	1	NNE	1016
19	116	28.2	7.2	39.2	5.7	50.3	1	N	1016
20	123	31.8	6.4	52.7	6.3	54.2	0	-	1017
21	124	37.0	6.3	54.9	5.7	64.3	1	NNW	1017
22	129	37.6	6.3	63.7	6.0	76.1	3	N	1017
23	140	41.5	6.0	69.6	5.1	89.2	3	N	1017

平塚沖波浪観測資料(2) — 渡部・徳田

HOUR	WAVE NUMBER	1979		01 08		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	141	34.2	5.6	56.0	5.4	100.0	3	NNW	1017
1	150	33.5	5.6	61.5	6.0	109.4	4	N	1017
2	145	37.9	6.0	59.0	4.8	111.5	3	N	1017
3	174	35.8	5.1	63.4	5.1	107.4	4	N	1017
4	146	38.5	5.7	72.9	8.4	102.7	2	N	1017
5	140	35.9	5.6	56.0	6.0	98.8	4	N	1017
6	125	38.3	5.9	56.8	4.8	97.5	4	N	1018
7	153	33.3	5.3	53.8	4.2	99.7	4	N	1019
8	143	36.9	6.2	56.4	5.4	104.4	3	N	1020
9	152	33.5	6.1	46.9	5.4	112.9	4	N	1020
10	142	33.8	5.9	49.4	4.8	122.7	4	N	1021
11	135	35.1	5.5	61.2	6.0	128.5	4	N	1020
12	131	35.7	5.9	57.5	4.8	132.4	3	N	1019
13	129	36.3	5.7	54.2	5.1	129.7	2	N	1019
14	137	31.3	6.4	46.9	5.7	125.0	1	E	1018
15	156	33.3	6.0	62.6	6.6	109.4	2	SE	1018
16	164	29.8	5.4	44.7	6.3	89.0	4	S	1018
17	158	35.2	5.7	50.9	8.7	69.9	4	S	1018
18	128	33.8	6.2	48.0	6.0	52.0	4	SSW	1018
19	151	27.5	5.7	42.8	4.5	35.9	5	SSW	1018
20	125	27.2	5.9	43.6	5.4	32.2	2	W	1018
21	138	23.5	5.7	32.6	9.0	37.7	2	W	1018
22	152	29.6	5.6	44.7	7.2	49.9	4	N	1018
23	149	36.8	5.8	52.7	4.8	66.7	4	N	1018

HOUR	WAVE NUMBER	1979		01 09		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	159	35.2	5.5	60.8	4.8	84.8	4	N	1018
1	148	36.1	5.4	52.7	6.6	100.9	5	N	1019
2	147	35.8	5.6	61.2	9.3	112.6	5	N	1019
3	149	34.9	5.9	57.5	6.9	114.7	4	N	1019
4	137	31.5	6.0	50.5	4.8	113.1	4	N	1019
5	126	29.8	6.6	46.9	9.0	106.6	4	N	1019
6	168	26.1	6.0	40.6	10.2	101.1	3	N	1020
7	160	24.2	5.8	45.0	9.3	99.1	3	N	1020
8	135	26.1	6.5	39.6	7.8	97.2	4	N	1021
9	136	30.2	6.7	59.0	9.3	102.8	5	N	1021
10	122	34.3	6.3	52.4	9.6	110.4	4	N	1021
11	122	37.2	6.7	54.2	7.8	119.5	3	N	1021
12	110	44.0	6.4	59.5	6.3	126.9	0	-	1020
13	128	40.2	6.5	57.9	9.0	132.4	2	S	1020
14	137	39.9	6.4	57.1	6.0	130.3	3	SSW	1020
15	139	37.5	6.1	74.3	7.2	122.3	3	SSW	1020
16	128	32.6	7.1	44.7	6.6	104.8	3	S	1020
17	145	28.6	5.9	52.0	6.3	81.6	4	SSW	1021
18	118	25.1	7.2	35.2	6.6	53.6	2	SSW	1021
19	105	17.1	8.0	23.4	12.0	33.8	2	SW	1022
20	125	11.3	7.0	18.7	9.3	20.7	0	-	1022
21	129	9.6	7.1	18.7	12.3	16.6	3	N	1022
22	136	13.9	6.3	24.5	5.4	25.1	5	N	1023
23	138	18.7	6.2	33.0	7.8	40.5	4	N	1023

HOUR	WAVE NUMBER	19/9		01 10		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	150	23.7	6.2	37.4	9.0	62.3	4	N	1023
1	158	27.0	6.5	50.2	11.1	87.1	5	N	1022
2	132	28.3	7.6	50.2	7.2	107.4	4	N	1022
3	150	27.0	7.2	47.2	10.5	118.6	4	N	1022
4	165	23.8	6.3	41.4	11.4	122.8	4	N	1021
5	116	27.1	8.5	45.8	10.8	119.3	4	NNW	1021
6	120	23.2	8.0	40.6	11.7	111.3	4	N	1021
7	125	28.3	8.1	45.8	10.5	103.5	3	N	1021
8	121	25.2	8.0	39.6	10.5	98.1	3	N	1020
9	104	31.5	9.3	54.6	12.0	96.5	2	N	1020
10	141	29.5	7.4	55.3	12.0	100.9	10	SSW	1019
11	186	61.1	4.3	97.0	3.6	111.2	10	SW	1018
12	194	65.0	3.5	94.5	3.0	120.4	10	SSW	1016
13	161	93.7	4.1	147.2	4.5	131.5	11	S	1015
14	158	95.8	4.3	131.1	4.2	140.2	9	SSW	1014
15							8	W	1013
16							3	SW	1013
17	160	96.3	4.7	134.4	4.2	106.2	9	SW	1012
18	149	92.7	4.8	131.1	5.1	79.5	5	WSW	1012
19	149	78.9	5.0	128.5	4.2	47.3	4	WSW	1012
20	124	65.1	5.3	104.4	4.8	27.4	3	W	1011
21	134	43.6	4.9	74.3	4.5	18.6	4	N	1011
22	123	33.3	5.5	52.0	4.5	18.6	3	NE	1011
23	118	38.5	5.3	57.1	5.4	31.7	2	NNW	1011

HOUR	WAVE NUMBER	19/9		01 11		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	121	46.5	5.8	67.0	6.0	54.7	0	-	1011
1	128	48.0	6.4	67.4	13.5	84.4	4	NNW	1011
2	127	47.4	6.6	72.1	5.1	109.2	4	NNW	1011
3	144	50.2	6.5	79.8	6.6	131.5	4	N	1011
4	154	47.0	5.9	85.3	6.0	143.2	4	N	1011
5	154	40.7	6.4	57.5	6.9	145.1	4	N	1011
6	128	46.0	7.5	66.7	8.4	138.4	5	N	1012
7	120	49.3	8.1	90.1	8.4	126.7	4	N	1012
8	160	39.2	6.6	86.4	12.0	114.5	5	NNE	1013
9	144	39.6	7.1	73.6	6.6	107.8	5	NNE	1014
10	121	46.3	8.0	73.6	6.3	105.5	4	NE	1015
11	151	43.6	6.7	63.0	6.9	110.8	5	NE	1015
12	136	44.8	7.2	72.5	11.7	120.0	4	NE	1014
13	125	49.5	7.6	78.4	7.8	135.8	3	NE	1013
14	124	50.9	7.3	78.7	8.4	148.0	4	NE	1013
15	118	53.8	7.3	82.8	8.1	152.8	2	NE	1013
16	118	49.9	7.3	87.5	8.4	148.7	2	NE	1013
17	111	53.4	7.7	86.4	9.6	130.6	2	NNE	1014
18	112	41.6	7.5	57.5	7.2	100.4	2	N	1014
19	106	35.8	8.1	47.6	9.6	68.3	2	N	1015
20	104	19.5	8.2	26.4	8.7	37.7	3	NE	1015
21	112	19.2	7.9	63.7	6.9	17.3	4	NE	1015
22	103	19.1	7.9	31.5	10.2	9.7	4	NE	1015
23	107	19.0	8.9	40.3	8.7	17.0	4	NE	1015

HOUR	WAVE NUMBER	19/9		01	12	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	92	28.7	8.3	38.5	7.5	35.0	4	NNE	1014
1	126	35.9	7.2	48.3	7.2	63.2	4	NNE	1014
2	123	41.3	7.6	84.6	7.2	93.6	4	NNE	1014
3	115	52.3	7.8	80.6	7.8	121.2	4	NE	1014
4	138	41.5	6.8	73.2	7.2	142.0	4	NE	1014
5	130	54.8	6.8	100.0	8.1	149.6	5	NNE	1014
6	114	48.4	7.6	76.5	8.7	146.7	4	NNE	1014
7	139	37.6	7.2	58.6	7.5	134.7	3	NNE	1014
8	144	40.8	6.9	72.1	8.7	117.4	4	NNE	1015
9	133	37.5	7.6	65.9	8.7	104.4	4	NNE	1015
10	139	35.4	7.0	50.5	8.1	98.8	4	NNE	1014
11	134	37.7	7.8	59.0	9.6	99.8	4	NNE	1014
12	122	30.8	7.7	47.6	9.3	110.1	4	NNE	1012
13	60	44.2	9.0	56.4	8.1	127.8	2	N	1010
14	99	44.9	7.7	74.7	8.1	143.7	0	-	1010
15	102	44.2	7.8	61.9	6.6	157.0	2	NW	1010
16	117	39.0	7.5	53.8	9.0	159.3	2	NW	1010
17	140	38.3	7.0	61.5	8.7	150.3	4	NE	1011
18	150	40.4	6.9	68.1	9.6	124.1	6	N	1011
19	144	36.7	6.9	67.0	10.2	89.0	6	N	1010
20	162	30.9	6.7	50.5	7.5	56.5	6	N	1010
21	156	30.3	6.8	63.7	7.8	26.4	6	N	1010
22	181	23.7	5.7	50.9	7.2	10.4	6	N	1010
23	180	26.9	5.6	45.4	7.2	8.7	7	N	1010

HOUR	WAVE NUMBER	19/9		01	13	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	208	29.2	4.3	58.2	9.3	21.4	7	NNE	1009
1	224	27.5	3.7	52.4	8.7	49.0	7	NNE	1009
2	206	28.5	4.5	51.3	7.5	80.0	7	NNE	1008
3	174	29.6	5.7	52.7	9.6	115.4	6	NNE	1008
4	176	27.6	5.4	60.8	9.3	140.9	6	NNE	1007
5	157	26.9	6.4	59.3	7.5	157.2	6	NNE	1007
6	134	26.9	7.5	42.1	9.9	159.1	4	NNE	1007
7	125	30.6	7.4	57.1	8.4	148.0	4	NNE	1007
8	142	34.7	7.1	61.9	8.7	134.7	4	NNE	1007
9	141	39.7	6.6	74.3	9.6	115.6	5	NE	1007
10	143	40.6	6.9	62.3	9.0	105.3	4	NE	1007
11	154	31.9	6.3	63.7	7.5	101.4	4	NE	1007
12	160	30.0	5.9	46.5	6.9	106.6	4	NE	1006
13	167	30.7	5.8	58.2	6.3	123.2	4	NE	1005
14	158	36.9	6.2	65.9	8.1	142.0	4	NE	1005
15	174	34.5	5.7	52.7	8.1	158.2	5	NNE	1005
16	180	29.2	5.5	54.9	9.9	166.4	5	NNE	1006
17	168	28.7	5.9	79.5	9.3	163.2	4	NE	1007
18	143	32.4	6.9	55.3	7.5	142.7	4	NE	1008
19	128	34.7	7.6	54.6	8.1	111.2	3	NNE	1008
20	105	41.4	8.7	65.2	8.7	75.4	2	N	1009
21	102	38.5	8.2	51.6	8.4	39.5	2	NNW	1009
22	103	39.3	7.8	95.6	7.8	12.4	2	N	1008
23	117	39.4	7.5	64.1	9.0	1.4	3	NNW	1008

HOUR	WAVE NUMBER	1979		01 14		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	120	40.2	7.3	69.2	6.0	7.3	3	NNW	1008
1	166	40.6	6.7	66.7	7.8	29.2	6	N	1009
2	119	45.9	7.6	64.8	9.0	62.3	2	NNE	1010
3	98	72.6	8.7	100.7	9.3	96.1	3	N	1011
4	96	81.1	8.9	125.6	9.6	125.5	3	N	1011
5	83	81.7	9.4	124.5	9.9	146.0	4	N	1012
6	96	73.7	8.8	108.4	9.9	154.9	4	N	1012
7	98	71.8	9.0	104.4	8.1	151.0	4	N	1013
8	79	90.1	9.4	150.5	9.6	133.6	3	N	1014
9	101	76.7	8.6	125.6	9.6	114.3	4	N	1015
10	91	83.6	8.8	140.3	8.4	96.8	4	N	1015
11	91	80.6	8.7	153.8	6.9	85.3	3	N	1015
12	91	91.4	9.2	144.7	8.7	84.6	3	NNW	1014
13	92	81.4	8.2	125.2	8.1	96.1	2	NNW	1013
14	93	86.6	7.3	121.6	7.2	117.4	2	NNW	1013
15	103	78.1	7.3	147.6	8.1	137.4	3	N	1013
16	108	81.3	7.5	149.4	8.1	154.5	4	NNW	1013
17	102	84.4	7.2	137.3	6.9	158.8	2	NNW	1013
18	118	96.2	6.8	165.9	7.5	146.2	3	N	1013
19	115	89.2	6.5	120.1	6.6	122.5	4	N	1014
20	109	101.8	6.6	157.8	6.6	89.2	3	NNW	1014
21	128	81.0	6.0	117.9	6.3	51.3	3	NW	1015
22	119	99.0	6.1	130.0	5.7	18.6	3	N	1014
23	128	98.2	5.8	202.1	6.0	-0.2	0	-	1014

HOUR	WAVE NUMBER	1979		01 15		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	124	79.3	5.8	117.9	6.6	-3.9	3	N	1014
1	132	83.1	5.6	135.1	6.0	10.4	3	N	1014
2	123	80.6	6.0	118.7	6.9	40.0	3	N	1014
3	114	69.0	6.4	121.9	5.1	72.9	4	N	1014
4	124	67.5	6.8	103.3	6.9	105.8	3	N	1013
5	129	63.6	6.4	114.6	6.9	134.3	4	N	1013
6	125	63.8	6.1	95.9	6.3	148.7	4	N	1013
7	132	68.8	6.2	115.4	7.5	149.9	4	NNW	1014
8	120	74.0	6.5	117.6	6.3	135.4	3	N	1014
9	118	89.4	6.2	137.0	5.1	114.2	2	N	1014
10	144	105.7	5.4	141.7	5.4	92.9	8	SW	1014
11	150	105.9	5.2	159.3	4.5	80.7	9	SW	1013
12	144	99.0	5.7	143.6	6.9	74.3	8	SW	1012
13	148	91.4	5.4	145.0	4.2	81.6	7	SW	1010
14	162	103.7	4.6	160.4	3.6	99.1	8	WSW	1010
15	144	136.8	4.9	206.5	4.2	122.0	6	WSW	1009
16	147	122.8	5.1	226.7	4.5	140.5	5	W	1010
17	134	119.9	5.5	179.8	5.4	156.6	4	W	1011
18	133	109.9	5.8	156.7	6.3	151.3	3	WNW	1012
19	131	130.1	6.2	176.5	6.0	132.0	5	WNW	1013
20	131	119.3	6.0	181.6	6.9	106.6	4	W	1014
21	108	114.4	6.4	167.0	6.6	69.9	1	NW	1015
22	114	108.1	6.3	153.8	6.0	34.9	2	W	1015
23	122	104.5	6.3	171.0	7.5	7.4	3	N	1015

HOUR	WAVE NUMBER	19/9		01		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	128	78.1	5.8	109.5	5.7	-2.5	3	N	1015
1	131	70.2	6.0	105.8	5.7	2.5	4	N	1015
2	117	64.4	6.3	122.3	6.6	25.0	3	E	1015
3	117	56.5	6.3	80.6	5.4	58.4	4	NNW	1016
4	115	56.5	6.4	81.7	7.5	89.9	4	N	1016
5	127	54.5	6.6	83.5	6.6	122.0	4	N	1016
6	132	53.3	5.9	93.8	6.3	141.8	3	N	1017
7	118	65.5	6.4	89.4	7.2	149.2	3	N	1017
8	126	59.6	6.3	100.0	5.7	143.0	4	N	1018
9	130	57.0	6.1	83.5	5.4	124.4	3	N	1019
10	120	68.6	6.5	90.5	6.6	103.4	0	-	1019
11	111	73.1	6.5	104.0	5.4	80.4	2	SE	1019
12	121	75.9	6.5	117.2	6.9	66.7	5	S	1018
13	126	68.5	6.6	88.3	6.0	68.5	6	S	1017
14	145	61.0	6.2	111.0	6.6	83.2	4	S	1017
15	151	60.5	6.1	94.8	6.9	102.0	4	SSE	1018
16	130	66.0	6.6	99.6	6.9	123.9	3	SE	1019
17	121	70.9	6.6	120.8	6.6	140.0	2	N	1020
18	131	61.1	6.6	94.8	6.6	146.7	2	N	1020
19	115	64.9	6.9	114.3	6.0	138.6	3	N	1021
20	131	53.1	6.8	86.8	6.6	115.9	4	N	1021
21	109	59.7	6.8	91.2	7.5	86.7	4	N	1021
22	122	52.6	7.0	77.6	6.9	53.5	4	N	1021
23	115	46.2	6.8	66.3	6.3	21.9	2	N	1021

HOUR	WAVE NUMBER	19/9		01		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	114	41.7	6.4	67.7	5.4	3.9	3	N	1022
1	128	42.7	6.5	59.7	6.3	-1.2	4	N	1022
2	124	34.0	6.9	58.6	7.2	13.6	4	N	1022
3	136	38.9	6.8	63.4	6.6	39.6	5	N	1022
4	146	30.9	6.4	56.8	6.9	71.9	4	N	1022
5	164	28.1	6.1	46.9	7.2	103.2	4	N	1022
6	158	32.3	6.3	59.0	6.3	127.3	5	N	1022
7	118	44.8	6.9	65.2	7.2	140.9	3	N	1023
8	132	42.2	6.6	60.8	7.5	140.0	3	N	1023
9	138	39.9	6.5	63.0	6.6	125.1	3	N	1023
10							2	N	1023
11							1	N	1022
12	122	44.9	6.2	75.1	6.3	65.3	3	SSE	1021
13	117	47.2	6.3	68.8	6.6	60.4	3	S	1020
14	122	43.6	5.8	60.4	7.2	68.5	5	S	1019
15	137	47.8	5.8	67.4	5.7	85.1	3	SSW	1019
16	161	48.0	5.4	72.5	6.0	105.3	4	W	1019
17	176	68.8	4.4	104.0	3.9	124.4	5	WSW	1019
18	152	84.8	5.1	124.9	5.4	137.0	3	W	1019
19	157	85.0	5.0	128.2	5.7	135.6	3	W	1019
20	157	72.6	4.9	115.7	5.4	123.4	3	W	1018
21	153	69.2	4.8	139.5	4.2	97.5	2	NNW	1018
22	162	74.4	4.4	104.7	3.9	69.4	3	NW	1018
23	161	57.7	4.6	84.2	4.2	39.1	3	N	1017

		1979		01	18				
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	151	50.5	4.7	78.4	6.0	15.9	4	N	1017
1	139	61.6	5.1	89.4	3.9	8.7	4	N	1016
2	143	60.2	5.1	97.8	4.2	14.0	2	N	1016
3	143	71.4	5.2	106.9	5.1	37.0	4	N	1015
4	145	73.5	5.1	122.7	3.9	64.6	3	N	1014
5	156	65.5	5.1	100.0	5.7	94.2	4	N	1013
6	167	104.8	4.3	163.0	4.2	125.0	6	SW	1012
7	151	118.3	4.8	180.5	5.1	143.2	6	SW	1011
8	145	180.0	5.1	283.1	5.4	144.6	16	SW	1010
9	163	135.8	4.6	210.9	6.0	143.2	16	SW	1007
10	144	108.6	5.2	135.1	6.0	-55.4	8	WSW	1006
11	136	107.2	5.5	178.0	5.7	-55.4	4	W	1003
12							5	W	1000
13	152	85.5	4.8	132.2	3.9	71.5	7	S	997
14	127	164.6	5.5	251.2	6.0	-55.4	13	SW	995
15	109	233.9	6.8	316.8	6.0	-55.4	12	SW	994
16	109	236.4	7.2	423.3	6.9	-55.4	5	SW	993
17	90	255.7	7.9	349.0	6.9	121.6	2	N	993
18	89	235.3	8.3	343.9	7.2	137.7	2	N	993
19	93	202.0	9.0	366.2	8.7	143.9	4	N	995
20	85	195.3	8.9	300.3	9.9	133.5	0	-	995
21	89	189.2	8.3	250.5	10.5	123.2	2	N	997
22	104	168.8	7.8	264.8	8.1	101.8	2	N	998
23	99	179.8	8.4	281.3	9.3	78.2	5	N	1000

		1979		01	19				
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	98	146.0	8.5	339.1	9.3	53.6	5	N	1001
1	91	163.7	9.2	365.8	8.7	40.0	6	N	1002
2	79	182.6	9.7	267.7	9.3	38.9	5	N	1004
3	82	135.6	9.1	212.8	10.5	48.0	4	N	1005
4	92	118.4	9.6	206.5	9.6	70.6	3	N	1006
5	85	148.0	9.2	247.9	8.7	95.2	3	N	1006
6	86	132.3	8.6	178.3	6.9	122.1	3	N	1007
7	83	136.4	8.3	209.8	8.7	141.4	2	N	1008
8	96	109.3	8.8	169.9	8.4	154.3	3	N	1009
9	84	105.3	9.0	136.6	8.1	149.2	3	N	1010
10	86	94.9	9.0	161.5	8.4	134.5	3	NE	1011
11	84	92.1	9.1	119.0	7.2	116.1	3	NE	1011
12	80	121.3	9.3	185.3	10.2	92.2	3	ESE	1010
13	87	107.8	9.0	165.2	11.4	75.0	3	SE	1010
14	92	101.1	8.8	137.3	8.1	69.2	3	E	1010
15	110	95.9	7.9	154.5	8.7	71.9	5	ENE	1011
16	108	82.2	7.4	112.8	9.9	82.0	5	NE	1012
17	113	81.3	7.9	114.3	8.7	97.7	4	NNE	1013
18	120	67.4	7.7	112.1	9.3	113.8	4	NNE	1014
19	108	70.8	7.9	112.8	8.4	123.2	4	NNE	1015
20	105	79.6	8.3	130.4	8.7	124.3	5	NNE	1016
21	112	59.9	8.1	89.4	7.8	118.2	4	N	1017
22	109	72.3	7.9	129.6	8.4	102.5	4	N	1017
23	97	70.1	8.4	119.0	7.8	82.0	4	N	1018

HOUR	WAVE NUMBER	1979		01 20		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	93	67.7	7.8	105.5	7.8	60.5	3	N	1018
1	99	66.9	7.5	112.1	7.8	45.1	4	N	1018
2	96	60.9	7.6	85.0	6.0	38.9	4	N	1018
3	107	58.3	7.3	94.1	7.8	40.5	4	N	1018
4	116	56.8	7.1	91.2	6.9	55.4	4	N	1019
5	101	67.6	7.4	89.7	6.9	74.3	5	N	1019
6	117	45.7	7.1	62.6	7.5	100.9	5	N	1019
7	121	44.1	7.2	64.8	8.4	123.9	4	N	1020
8	131	48.7	7.1	78.7	7.8	136.8	5	N	1020
9	132	44.3	6.8	63.0	6.3	138.9	5	N	1020
10	126	44.1	7.1	64.8	8.1	131.9	3	N	1020
11	109	44.1	6.8	58.6	8.1	116.6	2	SSE	1019
12	134	50.1	6.5	75.1	6.3	95.8	5	SSE	1018
13	143	48.3	6.2	74.3	6.6	79.3	6	SSE	1017
14	160	45.8	5.5	69.6	5.4	67.1	6	S	1016
15	165	45.8	5.5	72.1	5.7	63.7	6	S	1016
16	169	44.4	5.4	86.8	6.3	67.3	5	S	1016
17	187	54.1	4.5	75.8	6.6	77.7	10	SW	1015
18	161	80.6	4.6	113.9	3.6	90.1	8	W	1016
19	168	82.1	4.9	134.0	5.1	101.2	5	N	1016
20	139	97.5	5.2	139.9	6.0	109.0	4	WNW	1016
21	131	100.0	5.5	167.4	4.8	110.3	3	W	1017
22	131	92.3	5.6	138.4	5.4	106.7	4	WSW	1016
23	137	87.4	5.4	121.6	5.7	96.8	4	W	1016

HOUR	WAVE NUMBER	1979		01 21		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	144	78.0	5.0	112.1	4.8	82.1	2	NW	1015
1	151	69.7	4.8	101.4	5.1	70.8	2	NW	1015
2	154	66.4	4.6	104.0	5.4	61.2	4	W	1015
3	152	71.4	4.8	118.7	4.8	56.1	4	WNW	1014
4	149	68.3	5.0	123.0	5.1	63.2	5	W	1013
5	135	87.0	5.1	131.1	5.4	76.8	4	WNW	1013
6	134	99.5	5.4	176.9	4.8	99.5	3	NW	1012
7	142	87.8	4.9	128.2	5.4	117.7	2	N	1012
8	133	108.7	5.3	194.5	5.7	132.0	4	W	1012
9	141	126.7	5.3	182.0	4.8	141.2	4	W	1012
10	147	152.9	5.3	298.5	5.7	140.4	10	SW	1011
11	128	196.5	5.7	267.3	5.1	126.6	12	SW	1011
12	133	214.8	5.3	400.3	5.4	112.9	16	WSW	1010
13	117	211.3	6.1	324.5	5.7	96.8	15	WSW	1009
14	122	201.4	6.0	327.0	6.6	80.4	16	WSW	1008
15	129	186.0	6.0	286.0	5.1	69.2	15	WSW	1009
16	133	176.6	5.8	282.0	6.3	68.3	13	WSW	1009
17	132	168.4	5.9	252.3	6.3	68.0	12	WSW	1010
18	119	155.7	6.0	217.9	6.3	74.9	7	WSW	1012
19	126	134.4	6.2	236.2	6.0	83.7	5	W	1012
20	122	115.4	6.1	169.6	6.0	92.2	2	NW	1013
21	120	109.2	6.1	171.0	6.3	104.4	4	NE	1014
22	123	97.0	5.8	135.1	4.5	106.2	3	NE	1015
23	110	99.7	7.0	140.6	7.8	105.5	3	N	1016

		1979		01 22					
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	129	78.2	6.3	118.7	5.4	100.4	4	NNE	1016
1	105	82.7	7.1	118.7	7.2	91.5	5	NNE	1016
2	120	72.8	6.6	105.1	7.2	81.6	4	N	1017
3	117	68.5	6.7	135.5	6.3	74.7	4	N	1017
4	116	65.6	6.9	97.4	6.9	73.6	5	N	1017
5	108	68.5	7.1	93.0	7.2	78.8	4	NNE	1018
6	123	58.1	6.7	86.1	6.9	90.4	4	NNE	1019
7	112	55.8	6.9	72.1	7.5	104.8	4	NNE	1019
8	144	52.9	6.7	86.8	6.9	117.5	4	N	1020
9	124	52.8	6.9	85.0	6.9	130.4	4	N	1022
10							4	NE	1023
11							4	NE	1022
12							3	NE	1022
13							2	S	1021
14							3	S	1021
15							4	S	1021
16	160	43.3	5.7	67.0	5.4	58.4	5	S	1022
17	141	52.8	5.9	68.1	5.7	52.0	5	SSE	1022
18	144	52.5	5.6	84.2	6.9	50.1	5	SSE	1022
19	186	49.2	4.6	77.3	5.4	52.2	7	S	1022
20	179	40.4	4.8	61.9	5.4	62.5	4	NNW	1022
21	176	36.3	4.3	51.3	7.2	73.3	4	N	1022
22	177	38.9	4.2	63.4	4.5	86.0	4	N	1022
23	189	35.0	4.2	52.0	3.6	93.5	4	N	1022

		1979		01 23					
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	169	36.8	4.8	64.1	3.9	101.6	4	N	1022
1	157	33.2	5.4	57.5	8.1	101.8	4	N	1021
2	143	44.9	6.1	67.4	6.0	100.2	3	N	1021
3	147	45.2	6.1	83.1	7.2	93.3	4	N	1021
4	122	60.2	6.6	87.9	6.3	89.0	4	N	1021
5	116	52.4	6.7	76.9	6.3	85.5	3	N	1022
6	116	51.9	6.1	90.8	6.3	90.6	3	N	1022
7	129	53.2	6.1	92.3	6.0	99.7	3	N	1022
8	132	52.6	6.1	86.4	6.3	108.7	4	N	1023
9	119	52.4	6.2	89.4	6.0	122.0	3	N	1023
10	116	55.5	6.1	72.1	5.4	131.2	2	SSE	1023
11	126	51.9	6.2	67.7	5.1	132.4	3	SSE	1023
12	112	60.7	6.5	83.9	6.6	129.9	3	S	1022
13	117	58.8	6.6	112.8	6.9	119.3	2	S	1021
14	105	71.1	7.1	120.1	6.0	104.3	3	S	1020
15	111	71.7	6.8	127.4	6.3	86.9	1	S	1020
16	110	74.4	6.6	143.2	6.6	69.0	2	S	1020
17	94	73.2	6.8	130.4	6.3	54.3	1	S	1020
18	102	74.0	6.6	104.4	6.0	41.9	2	NW	1020
19	106	74.2	6.7	102.2	6.6	36.8	2	NW	1020
20	107	61.4	6.3	86.8	6.6	41.6	2	NW	1020
21	109	71.9	6.7	115.7	6.3	50.6	3	N	1020
22	101	72.8	6.8	100.3	6.9	63.5	4	NNW	1020
23	99	74.0	6.8	103.3	6.6	82.1	4	N	1020

HOUR	WAVE NUMBER	1979		01 24		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	116	71.2	6.9	106.6	6.6	96.5	4	N	1020
1	111	73.0	6.9	126.0	6.9	106.9	4	N	1020
2	120	61.6	6.6	85.3	6.6	112.2	4	N	1020
3	117	47.7	6.6	65.9	6.6	111.2	2	NW	1020
4	113	62.0	6.5	96.7	7.2	106.6	3	N	1020
5	115	51.1	6.6	68.8	6.3	100.7	4	N	1020
6	122	47.8	6.3	72.9	6.0	97.7	5	N	1020
7	125	47.5	6.4	80.2	6.0	96.6	5	N	1021
8	124	52.9	6.2	79.5	6.6	102.0	4	N	1021
9	118	54.4	6.6	73.2	6.9	109.6	4	N	1022
10	119	51.6	6.8	75.4	7.2	120.2	1	N	1022
11	124	46.8	6.1	81.7	6.3	127.4	2	SSE	1021
12	124	55.1	6.6	79.8	6.9	132.4	3	SSE	1021
13	133	52.3	6.3	75.4	6.3	129.9	4	SSE	1020
14	142	61.6	6.1	85.3	7.2	-55.4	5	SSE	1020
15	163	57.4	5.4	87.2	6.6	-55.4	5	SSE	1020
16	165	55.6	5.4	87.2	6.3	-55.4	4	SSE	1020
17	163	44.3	4.9	64.8	6.0	62.8	1	E	1020
18	134	53.7	6.4	80.6	5.4	39.6	1	E	1020
19	99	55.3	6.6	85.7	7.5	25.5	3	N	1021
20	118	43.1	6.8	70.7	7.2	18.8	4	N	1022
21	108	42.0	6.8	63.0	7.5	23.7	4	NNE	1023
22	128	35.7	6.5	63.0	8.1	35.9	5	NNE	1023
23	150	34.8	6.5	54.9	6.6	54.5	4	N	1024

HOUR	WAVE NUMBER	1979		01 25		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	116	45.7	7.2	71.8	6.3	79.5	2	N	1024
1	120	39.0	6.8	62.6	7.5	101.1	2	NNW	1024
2	128	38.1	6.8	70.3	7.2	117.5	1	NNW	1024
3	114	39.2	6.6	57.5	7.2	124.6	0	-	1025
4	113	37.9	6.7	71.4	6.6	122.7	1	N	1024
5	136	34.4	6.6	57.9	6.3	114.7	3	N	1024
6	132	31.8	6.4	50.2	6.9	106.4	3	N	1024
7	151	30.8	6.2	60.4	7.2	95.8	4	N	1024
8	162	30.7	6.1	46.9	6.6	94.7	4		1024
9	153	31.9	5.9	52.4	6.3	95.6	4	N	1024
10	130	31.6	6.1	48.7	6.0	104.6	2	N	1024
11	121	29.5	5.6	41.0	6.3	115.4	0	-	1022
12	114	32.7	6.2	46.1	6.3	124.8	2	SSE	1020
13	175	27.9	5.4	46.1	4.5	132.4	4	S	1019
14	184	28.5	5.0	46.5	5.1	135.1	2	S	1018
15	232	34.2	3.3	49.8	5.1	125.8	7	S	1018
16	210	29.2	4.0	51.3	3.6	108.9	5	SSW	1017
17	237	37.6	3.0	55.3	4.8	82.0	6	WSW	1017
18	209	41.0	3.2	56.0	3.0	53.8	2	W	1017
19	166	27.5	4.1	43.6	3.0	25.7	3	N	1016
20	142	30.7	4.4	59.0	4.2	8.7	3	N	1016
21	146	24.9	4.3	66.3	4.2	5.0	2	N	1016
22	152	20.7	4.6	37.0	4.5	9.0	3	N	1015
23	146	30.4	4.6	64.5	4.8	29.4	3	N	1014

HOUR	WAVE NUMBER	1979		01 26		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	155	36.4	4.6	50.5	3.9	58.2	4	N	1014
1	162	33.8	4.7	43.9	4.5	92.6	4	N	1013
2	197	29.5	4.8	54.6	4.8	120.4	4	N	1012
3	208	26.5	4.5	54.9	5.4	138.4	5	N	1011
4	173	21.0	5.3	37.0	8.7	149.6	3	N	1011
5	182	18.1	5.6	29.3	5.7	148.3	3	NE	1011
6	169	18.4	6.0	27.8	10.8	138.2	2	NNE	1011
7	176	16.4	5.6	30.4	9.9	119.5	2	N	1011
8	159	14.0	5.9	28.9	6.3	106.6	1	N	1011
9	158	12.8	6.4	23.8	10.8	101.4	2	NNE	1011
10							4	NE	1011
11							4	NE	1010
12							2	NE	1010
13							6	SSW	1009
14							4	S	1009
15	243	31.1	2.9	47.6	2.1	154.0	9	S	1009
16	227	45.4	3.0	81.3	2.7	-55.4	8	S	1009
17	212	42.9	3.3	63.0	3.0	-55.4	7	S	1010
18	191	48.5	3.8	86.4	3.3	85.7	5	SSW	1010
19	174	37.3	4.0	54.6	3.6	50.6	2	NW	1010
20	153	19.8	4.3	39.2	3.0	20.9	2	NNW	1010
21	142	13.9	5.8	31.5	7.2	0.4	3	N	1011
22	118	11.8	7.0	22.7	6.3	-2.8	3	N	1011
23	112	19.2	7.1	33.7	6.9	-55.4	2	N	1011

HOUR	WAVE NUMBER	1979		01 27		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	87	39.0	7.3	66.7	7.5	-55.4	3	N	1011
1	99	50.5	7.5	68.1	6.9	-55.4	4	N	1011
2	101	48.3	7.2	76.9	7.2	-55.2	2	NNE	1011
3	102	52.9	6.8	72.9	6.9	-55.2	0	-	1011
4	147	39.7	6.5	75.8	6.9	-55.4	4	N	1011
5	106	58.3	6.8	75.1	6.6	-55.4	4	N	1012
6	114	54.9	6.9	75.4	6.6	-55.2	3	N	1012
7	104	61.4	6.9	101.8	6.6	-55.4	3	N	1013
8	117	67.4	6.8	108.0	7.5	-55.6	2	N	1014
9	114	66.1	6.4	106.2	6.9	-55.4	3	N	1014
10	113	60.2	6.5	93.8	6.3	-55.4	2	N	1014
11	108	59.0	6.5	87.9	7.5	-55.4	2	SE	1013
12	114	60.7	6.5	86.4	6.0	-55.4	3	SSE	1012
13	124	57.2	6.4	80.9	7.5	-55.4	6	S	1011
14	144	63.3	6.5	89.4	7.8	-55.4	8	S	1010
15	164	68.8	5.3	109.9	7.2	-55.4	9	SSW	1010
16	158	70.6	5.4	102.2	6.9	-55.4	5	SSW	1010
17	147	68.2	5.6	100.7	7.5	-55.2	3	WSW	1010
18	115	88.7	6.5	147.9	6.0	-55.4	1	NW	1012
19	152	73.4	6.3	107.3	7.2	-55.4	7	N	1013
20	105	62.8	6.8	104.0	6.3	-55.4	4	N	1014
21	110	65.9	7.0	102.5	7.5	-55.4	6	N	1015
22	122	35.4	6.9	62.3	7.2	-55.4	5	N	1016
23	117	29.1	6.9	53.8	6.9	-55.4	5	N	1016

HOUR	WAVE NUMBER	19/9		01 28		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	131	16.6	6.9	53.5	6.6	-55.4	5	N	1017
1	125	24.6	6.7	35.2	6.9	-55.4	5	N	1017
2	152	37.9	6.2	58.2	6.6	-55.4	4	N	1018
3	151	36.3	6.4	57.5	6.3	-55.4	5	N	1018
4	154	41.6	6.6	83.5	7.5	-55.2	5	N	1019
5	152	41.5	6.4	57.9	6.6	-55.4	5	N	1020
6	155	41.0	6.4	69.9	6.6	-55.2	6	N	1021
7	191	34.0	5.1	76.5	7.2	-55.4	6	NNE	1022
8	182	35.5	5.3	59.0	6.3	-55.4	6	NNE	1023
9	184	34.5	4.6	54.9	6.3	-55.4	6	NNE	1024
10	196	35.2	4.1	61.9	6.6	-55.4	5	NNE	1025
11	165	43.5	6.1	82.8	7.8	-55.4	4	NE	1025
12	126	45.5	7.4	58.6	7.5	-55.4	4	NE	1024
13	122	40.5	7.5	63.4	7.5	-55.2	2	NE	1024
14	129	38.3	6.9	55.3	8.1	-55.2	0	-	1024
15	133	37.4	6.6	54.6	6.6	-55.2	1	NW	1024
16	137	34.4	6.3	56.4	6.9	-55.2	2	WNW	1025
17	157	32.1	6.0	48.7	6.9	-55.4	0	-	1026
18	155	27.3	6.3	43.9	9.3	-55.2	1	N	1027
19	154	35.1	6.8	61.5	8.4	-55.4	2	NNE	1027
20	138	33.4	7.2	52.7	8.4	-55.4	4	NNE	1028
21	139	7.9	7.4	15.4	6.9	-55.4	4	NNE	1028
22	135	11.2	8.0	18.5	6.9	-55.4	4	NNE	1029
23	156	14.0	6.5	26.7	10.5	-55.4	4	NNE	1029

HOUR	WAVE NUMBER	19/9		01 29		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	162	10.1	6.6	16.1	9.0	-55.4	5	NNE	1029
1	92	6.7	9.6	14.3	7.2	-55.4	4	NNE	1029
2	162	15.0	6.3	23.4	9.3	-55.4	4	N	1030
3	177	24.0	6.1	50.2	7.5	-55.4	4	N	1030
4	179	21.8	5.3	42.5	11.4	-55.4	5	N	1030
5	199	22.9	5.2	43.2	9.0	-55.4	6	N	1030
6	206	21.6	5.2	46.5	7.5	-55.2	5	N	1030
7	192	22.3	5.5	46.1	7.2	-55.4	5	N	1031
8	201	23.3	4.9	42.5	6.0	-55.4	5	N	1031
9	154	30.1	6.7	54.9	8.4	-55.4	5	N	1032
10	162	28.0	6.3	45.8	7.2	-55.2	5	N	1032
11	177	25.1	6.0	38.8	8.7	-55.2	5	N	1031
12	144	33.4	7.2	60.4	8.1	-55.4	5	N	1031
13	167	30.7	6.2	64.1	7.8	-55.4	5	N	1030
14	134	30.3	6.8	51.6	6.6	-55.4	5	N	1029
15	176	26.9	6.0	50.9	7.2	-55.4	5	N	1029
16	219	23.7	4.5	40.6	7.2	-55.4	6	N	1029
17	190	27.7	5.1	52.4	6.9	-55.4	6	N	1028
18	197	20.2	5.2	41.4	8.4	-55.4	5	N	1028
19	234	21.2	3.8	43.2	6.3	-55.4	6	N	1028
20	209	23.2	4.4	47.6	8.7	-55.4	6	N	1028
21	221	17.7	4.5	32.2	8.4	-55.4	7	N	1027
22	83	6.6	15.0	21.6	39.3	-55.2	7	N	1026
23	102	6.4	12.5	12.8	38.4	-55.4	7	N	1025

HOUR	WAVE NUMBER	19/9		01 30		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	113	7.2	11.8	13.9	7.2	-55.4	7	N	1024
1	176	6.0	6.0	9.9	9.3	-55.4	8	N	1023
2	182	11.9	4.5	34.4	5.1	-55.4	7	N	1021
3	218	30.3	4.2	50.9	8.1	-55.4	8	NNE	1020
4	197	35.0	4.5	67.7	8.1	-55.4	7	N	1018
5	153	42.5	6.7	82.8	7.5	-55.4	8	N	1016
6	135	67.3	7.6	120.5	9.9	-55.4	8	NNE	1015
7	106	104.0	9.0	195.6	9.0	-55.4	8	N	1013
8	85	154.0	9.7	217.9	9.6	-55.4	6	N	1012
9	71	190.6	10.2	241.0	10.5	-55.4	6	N	1011
10							6	N	1010
11							6	N	1008
12							4	NNE	1007
13							4	NNE	1006
14							0	-	1006
15							0	-	1006
16							2	SSW	1006
17							2	NW	1007
18							0	-	1007
19							2	N	1008
20							1	NNW	1009
21							3	NNW	1010
22							0	-	1010
23							0	-	1011

HOUR	WAVE NUMBER	19/9		01 31		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	61	165.9	10.6	223.8	10.8	-55.4	0	-	1012
1	60	143.9	10.5	231.1	9.6	-55.4	3	N	1013
2	63	131.3	10.0	211.7	10.5	-55.2	3	NNW	1014
3	63	128.0	10.6	219.0	9.3	-55.2	4	NNW	1015
4	69	135.3	10.1	176.9	9.3	-55.4	4	N	1015
5	83	110.7	9.4	186.0	8.7	-55.4	2	NE	1015
6	80	129.2	10.1	202.9	10.5	-55.4	2	N	1017
7	86	98.3	9.7	170.3	9.0	-55.2	4	NNW	1017
8	78	101.4	10.1	147.6	10.5	-55.4	3	N	1018
9	80	111.4	10.3	223.0	10.2	-55.4	4	NNW	1019
10	89	83.1	9.8	126.7	9.0	-55.4	4	NNW	1019
11	70	92.0	9.9	113.5	8.7	-55.4	3	N	1018
12	71	85.4	9.8	128.9	9.9	-55.4	3	NNW	1018
13	80	94.5	9.4	194.8	9.6	-55.4	3	NNE	1017
14	93	88.0	9.6	160.8	9.6	-55.4	5	NNE	1016
15	88	87.8	9.4	148.3	9.0	-55.4	4	NNE	1016
16	87	104.5	9.5	131.8	9.9	-55.4	5	NNE	1016
17	109	72.9	8.9	126.0	9.0	-55.2	6	N	1016
18	108	90.5	9.3	152.3	9.3	-55.4	6	N	1015
19							6	N	1015
20							5	N	1015
21							5	NNE	1014
22	103	68.7	8.8	106.9	9.3	-55.4	5	NNE	1013
23	109	47.5	8.4	77.3	9.3	-55.2	4	NNE	1012

HOUR	WAVE NUMBER	1979		02	01	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	86	47.5	8.7	68.5	9.3	-55.4	4	N	1011
1	72	46.1	9.0	72.1	9.3	-55.4	5	N	1009
2	83	43.8	8.8	75.4	9.0	-55.4	4	N	1008
3	92	65.4	8.8	94.5	8.4	-55.4	4	N	1006
4	99	65.6	8.5	115.7	9.0	-55.4	4	N	1005
5	91	75.9	8.2	133.3	7.8	-55.4	4	N	1003
6	107	68.8	8.0	111.3	8.4	-55.4	4	N	1002
7	110	72.3	7.8	140.6	8.4	-55.2	4	N	1001
8	85	92.8	8.0	139.9	7.2	-55.4	0	-	1001
9	93	87.3	7.8	135.5	6.9	-55.4	0	-	1001
10	89	122.1	7.8	200.7	6.9	-55.4	0	-	1000
11	89	92.2	7.8	147.9	6.9	-55.4	2	SW	998
12	119	113.0	7.5	165.9	8.4	-55.2	10	SSW	998
13	126	124.1	6.3	193.7	7.5	-55.4	9	SSW	997
14	129	133.8	5.8	180.9	4.2	-55.4	12	SSW	998
15	134	137.1	5.5	227.4	5.4	-55.4	12	SSW	998
16	128	156.8	6.0	233.6	8.4	-55.4	11	SSW	999
17	123	160.9	6.0	249.0	6.0	-55.4	12	SSW	1000
18	118	203.2	6.1	304.0	6.0	-55.4	10	SW	1000
19	119	205.8	6.3	329.2	7.2	-55.4	13	SW	1000
20	135	168.4	5.6	240.6	4.8	-55.4	10	SW	1001
21	132	162.6	5.6	220.5	6.0	-55.4	12	SW	1002
22	139	145.0	5.5	215.7	5.4	-55.4	11	SW	1002
23	117	143.9	6.1	249.8	5.7	-55.4	12	SSW	1001

HOUR	WAVE NUMBER	1979		02	02	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	131	125.0	5.6	188.6	4.8	-55.4	5	W	1002
1	127	119.8	6.1	224.5	6.6	-55.4	3	W	1003
2	129	115.3	5.9	178.7	6.6	-55.4	3	W	1004
3	128	129.3	6.6	243.9	4.8	-55.4	7	WSW	1004
4	131	136.9	6.1	228.5	7.5	-55.4	7	W	1005
5	120	155.5	6.7	273.9	6.6	-55.4	10	SW	1006
6							6	WSW	1007
7							3	W	1007
8							3	W	1009
9							4	WSW	1010
10	110	134.0	7.2	197.0	6.3	-55.2	1	SE	1010
11	115	125.3	6.8	205.4	6.9	-55.4	4	SE	1011
12	106	110.8	6.7	154.9	6.0	-55.4	4	ESE	1011
13	110	98.8	6.9	134.0	6.0	-55.2	5	ESE	1011
14	120	85.7	7.1	133.3	6.6	-55.4	4	SE	1012
15	119	81.1	6.4	130.0	6.6	-55.4	5	NE	1013
16	120	86.8	6.7	121.9	9.9	-55.4	5	ENE	1014
17	140	88.1	6.3	147.9	6.9	-55.4	3	NE	1015
18	133	66.9	6.5	102.9	6.3	-55.4	2	NE	1016
19	129	68.8	6.7	112.8	5.4	-55.2	3	NNE	1017
20	131	54.0	6.9	76.9	7.8	-55.4	4	NNE	1018
21	137	46.3	6.7	99.6	7.2	-55.4	4	NNE	1019
22	125	45.3	7.1	71.4	7.2	-55.2	3	N	1020
23	104	56.0	7.3	93.0	7.2	-55.4	3	NNW	1020

HOUR	WAVE NUMBER	19/9		02	03	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	127	50.9	7.1	79.1	7.5	-55.4	3	N	1021
1	115	42.2	7.2	65.2	7.8	-55.4	3	N	1021
2	152	29.7	6.7	51.3	7.2	-55.4	4	N	1021
3	112	33.9	7.0	50.2	7.5	-55.4	4	N	1021
4	152	36.2	6.9	62.6	7.5	-55.4	4	N	1021
5	111	38.2	7.8	59.7	8.1	-55.4	3	NE	1022
6	115	42.5	7.7	66.7	8.4	-55.6	2	NNW	1023
7	132	36.9	7.4	71.8	8.1	-55.4	3	NNW	1024
8	141	35.9	7.3	53.5	9.0	-55.4	4	NNW	1024
9	128	34.8	7.2	63.4	6.9	-55.4	4	NNW	1024
10	113	37.6	7.8	51.6	8.1	-55.4	2	N	1024
11	137	32.5	7.0	50.2	7.2	122.3	2	NE	1023
12	107	44.5	7.2	76.5	6.6	87.1	2	SE	1022
13	126	32.5	7.0	52.0	7.8	62.8	5	S	1021
14	163	42.2	6.1	74.7	7.8	46.9	5	S	1020
15	201	35.1	4.1	56.4	5.7	39.5	6	S	1020
16	206	33.6	4.4	52.7	7.2	46.4	6	SW	1020
17	208	60.3	3.3	96.7	3.6	57.0	8	SW	1020
18	201	68.0	3.5	111.0	3.3	73.6	7	SW	1020
19	183	71.2	4.1	109.1	4.2	90.1	7	W	1020
20	178	55.8	3.9	85.3	3.3	103.4	1	N	1021
21	169	51.6	4.2	76.2	3.9	111.5	2	N	1021
22	165	44.5	4.3	68.5	3.9	108.5	2	N	1021
23	160	41.6	5.3	61.9	5.7	99.3	2	N	1021

HOUR	WAVE NUMBER	19/9		02	04	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	174	38.7	4.5	61.2	3.9	87.1	3	N	1020
1	157	45.4	5.0	60.1	3.9	75.8	4	N	1020
2	171	43.7	4.6	64.8	4.5	68.3	4	N	1020
3	167	39.4	5.1	61.5	4.2	64.6	4	N	1020
4	162	36.9	5.5	63.7	5.1	71.9	4	N	1019
5	154	34.2	5.2	48.0	4.2	84.3	4	N	1019
6	175	30.2	5.1	54.9	6.0	104.3	4	N	1019
7	171	28.6	5.4	43.6	3.9	123.9	4	N	1019
8	164	28.0	5.2	47.6	3.6	135.8	2	N	1019
9	132	31.7	6.3	52.4	8.7	141.8	1	NE	1019
10	147	31.7	5.0	49.1	6.3	140.2	2	NE	1019
11	136	36.4	5.6	53.8	4.8	127.6	1	S	1019
12	120	65.9	6.2	105.5	5.4	110.1	2	S	1018
13	123	85.2	6.2	159.3	5.4	92.2	3	S	1017
14	118	98.3	6.1	216.4	6.3	69.4	2	S	1017
15	124	88.4	5.9	148.7	5.4	56.3	3	SE	1017
16	123	84.5	5.9	124.5	6.0	49.7	3	S	1017
17	125	78.9	6.0	131.1	7.5	52.2	1	NE	1018
18	130	61.7	5.8	99.2	5.7	59.3	6	NNE	1019
19	137	53.7	6.4	73.6	6.0	71.2	6	NNE	1021
20	155	54.8	6.5	105.5	6.0	83.2	6	NNE	1022
21	142	51.4	6.7	93.8	7.5	94.2	6	NNE	1023
22	124	61.7	7.5	81.7	7.5	100.4	5	NNE	1024
23	142	47.5	6.7	64.8	7.5	101.4	5	NNE	1024

HOUR	WAVE NUMBER	19/9		02		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	138	48.5	7.4	87.5	9.0	98.2	4	NNE	1025
1	158	37.0	6.3	59.3	7.5	93.3	4	NNE	1025
2	159	31.0	6.4	49.4	7.5	85.7	3	NNE	1026
3	141	38.9	6.8	60.4	7.2	81.8	4	NNE	1027
4	161	34.9	6.1	56.8	7.2	78.6	4	NNE	1027
5	190	31.0	5.0	54.9	8.1	83.2	4	NNE	1028
6	180	30.6	5.6	54.2	7.2	93.6	4	NNE	1029
7	184	28.8	5.3	52.7	7.8	104.8	4	N	1029
8	212	27.9	4.4	57.9	7.5	114.5	6	N	1030
9	193	24.2	5.1	45.8	7.5	120.5	6	N	1030
10	201	20.4	4.9	33.3	6.6	124.3	5	N	1031
11	176	22.7	5.7	41.4	7.5	119.1	5	N	1030
12	174	26.0	5.9	42.5	7.2	108.3	4	NNE	1029
13	183	24.8	5.5	46.5	8.7	94.2	4	NNE	1028
14	144	27.0	7.3	43.9	8.1	75.8	4	NNE	1028
15	137	32.0	7.2	56.4	7.8	59.5	4	NNE	1027
16	169	29.6	6.2	47.6	7.8	45.7	5	N	1027
17	170	30.8	6.4	50.2	6.9	37.3	5	N	1027
18	166	26.0	6.3	43.2	7.8	33.5	5	N	1027
19	148	32.8	7.2	58.2	8.1	35.8	6	N	1027
20	152	32.0	7.0	48.3	8.7	46.7	6	N	1026
21	160	28.4	6.4	49.4	8.1	57.9	6	N	1025
22	171	25.7	6.3	51.3	7.5	71.5	6	N	1023
23	169	31.2	5.5	59.3	7.5	83.7	7	N	1022

HOUR	WAVE NUMBER	19/9		02		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	186	33.2	5.5	63.7	8.7	90.6	7	N	1020
1	131	36.1	7.5	79.5	7.5	95.2	4	N	1019
2	128	40.2	7.8	94.1	7.2	95.4	5	NNE	1017
3	132	44.0	7.5	74.7	8.4	97.0	5	NNE	1016
4	126	52.8	7.7	73.2	7.5	96.8	5	NNE	1013
5	146	48.3	6.6	89.0	7.8	95.2	6	N	1011
6	131	52.8	7.2	99.2	9.0	104.1	7	N	1007
7	137	57.5	7.1	94.5	7.2	112.0	8	N	1005
8	162	56.1	6.3	116.1	9.0	116.1	8	N	1003
9	86	142.9	7.8	220.5	7.8	127.1	4	N	1003
10	88	158.0	7.9	265.1	8.7	134.7	5	N	1004
11	90	202.3	8.0	275.0	8.7	134.7	2	N	1005
12	78	241.5	9.1	420.8	9.0	132.4	1	SSE	1005
13	83	231.4	8.8	327.4	7.5	123.9	3	SE	1005
14	80	227.6	9.2	341.7	8.1	114.9	4	SE	1006
15	76	219.7	8.8	309.4	9.0	103.4	4	ESE	1006
16	83	184.2	8.9	306.2	7.5	82.8	4	SE	1007
17	93	189.2	8.7	274.3	9.3	63.9	6	SE	1008
18	102	152.8	8.1	227.4	7.2	55.9	3	E	1009
19	99	133.1	8.3	186.0	8.1	51.2	3	NE	1010
20	96	128.9	8.1	183.8	8.1	50.6	3	NE	1011
21	95	126.6	8.4	267.0	8.4	58.6	2	N	1012
22	87	134.3	8.8	179.8	8.4	68.5	1	NE	1012
23	83	128.9	8.8	224.5	8.4	85.3	1	N	1014

		1979		02	07				
HOUR	WAVE NUMBER	H	I	H	T	TIDE	WIND		PRES
		(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	101	96.7	7.5	168.1	9.0	97.3	2	NNE	1013
1	85	102.5	8.8	144.7	9.3	109.7	2	N	1014
2	94	101.9	9.1	177.6	7.8	118.8	3	N	1014
3	82	98.1	8.8	141.4	9.0	117.9	3	N	1015
4	85	94.3	8.6	174.3	8.1	115.6	4	N	1015
5	86	88.6	8.9	116.8	9.3	109.6	4	N	1015
6	100	81.5	8.0	143.6	7.5	106.7	4	N	1016
7	100	87.6	8.0	131.5	7.8	105.7	4	N	1017
8	91	80.2	8.3	114.6	8.4	107.1	4	N	1017
9	99	81.7	8.1	135.1	8.1	112.0	5	N	1018
10	98	76.4	7.9	131.8	7.8	116.5	4	N	1018
11	103	69.1	8.3	104.4	7.2	121.6	2	NE	1018
12	95	64.7	7.8	108.4	6.9	125.3	2	SE	1018
13	99	55.4	7.9	80.9	6.9	124.6	3	S	1017
14	109	59.2	7.4	121.9	8.1	118.9	4	S	1017
15	124	54.8	7.3	81.3	6.9	108.0	4	S	1017
16	113	58.5	7.0	89.4	7.2	92.6	3	SSE	1017
17	120	53.7	7.0	69.2	8.1	70.6	1	E	1018
18	134	46.4	6.8	73.2	9.3	51.5	4	NNE	1019
19	126	46.8	7.8	65.2	8.1	36.1	5	NNE	1019
20	138	42.3	6.8	57.9	6.9	29.2	5	NNE	1020
21	124	39.5	7.7	67.7	8.7	30.3	4	NNE	1020
22	143	37.3	7.1	56.8	8.1	39.1	5	NNE	1020
23	130	37.8	7.3	59.0	7.5	57.0	5	NNE	1020

		1979		02	08				
HOUR	WAVE NUMBER	H	I	H	T	TIDE	WIND		PRES
		(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	137	39.8	7.6	67.4	9.3	76.1	4	N	1020
1	165	29.1	6.4	56.0	8.7	96.3	4	N	1020
2	148	29.6	6.9	46.1	7.8	111.7	3	N	1020
3	139	32.6	7.5	51.6	7.8	120.2	4	N	1020
4	129	39.4	7.5	60.4	8.4	123.7	4	NNW	1020
5	127	35.7	7.5	59.3	10.5	119.8	5	NNW	1020
6	151	36.4	7.2	54.6	6.9	112.6	5	NNW	1020
7	125	40.3	7.9	65.9	8.1	104.4	3	N	1020
8	121	34.9	8.1	49.8	9.0	99.8	3	N	1021
9	105	46.6	8.0	73.2	10.8	99.8	2	N	1021
10	102	48.3	8.4	71.8	9.0	104.8	1	NE	1020
11	94	52.3	8.4	79.5	8.4	111.3	1	S	1020
12	110	41.3	7.9	61.9	6.6	121.1	1	S	1019
13	132	41.5	6.7	97.8	7.5	128.5	5	S	1018
14	133	42.6	7.0	77.6	8.1	131.7	3	S	1018
15	137	40.6	6.6	62.3	5.4	127.1	2	S	1017
16	121	46.6	6.9	76.2	7.5	114.9	2	ESE	1018
17	106	60.9	6.9	79.5	7.5	94.7	0	-	1018
18	116	59.9	6.2	94.1	6.0	68.7	0	-	1019
19	121	53.2	6.2	88.3	5.4	45.0	2	NNW	1019
20	117	45.4	6.5	72.5	5.4	28.7	3	N	1020
21	124	45.5	6.6	71.8	9.9	21.4	5	N	1021
22	142	43.2	6.6	71.0	7.8	24.6	6	NNE	1022
23	141	41.5	6.3	63.0	6.6	40.4	5	NNE	1022

HOUR	WAVE NUMBER	1979		02 09		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	157	36.9	6.4	61.5	7.5	60.2	5	NNE	1023
1	142	42.5	7.0	72.5	6.6	86.4	5	NNE	1023
2	148	36.1	6.4	66.7	7.5	108.0	4	NNE	1023
3	152	34.6	6.3	60.1	6.3	124.1	4	N	1023
4	128	33.1	7.1	58.6	7.2	132.0	3	N	1024
5	156	26.8	6.9	42.5	6.9	132.4	3	N	1024
6	130	28.5	7.7	61.2	8.4	124.8	3	N	1024
7	148	27.3	7.4	48.0	8.1	111.3	3	N	1025
8	153	25.0	7.0	46.5	8.7	99.5	3	N	1026
9	192	24.9	5.5	50.5	8.1	90.8	5	NNE	1026
10							5	NE	1026
11							4	NE	1025
12							4	NE	1025
13							2	NE	1024
14	231	20.3	4.0	31.9	3.6	130.1	4	ESE	1024
15	210	22.8	4.5	42.1	4.8	133.3	4	ESE	1024
16	188	21.1	5.1	33.7	9.0	127.8	2	S	1024
17	152	23.5	6.5	41.7	9.3	110.3	1	SW	1025
18	131	24.9	6.6	41.7	8.4	82.0	0	-	1026
19	124	19.3	7.1	29.3	4.5	52.6	1	NW	1026
20	146	17.8	6.3	27.8	6.0	26.5	2	N	1026
21	177	16.2	6.0	34.4	10.2	10.8	3	NNW	1026
22	155	17.8	6.3	33.3	9.0	4.2	3	N	1026
23	159	19.1	6.1	29.3	11.1	13.5	4	N	1026

HOUR	WAVE NUMBER	1979		02 10		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	172	19.9	5.8	39.9	8.4	35.6	4	N	1026
1	151	22.9	6.8	38.1	7.2	63.2	3	N	1025
2	153	23.8	6.8	44.3	8.1	89.7	4	N	1025
3	165	25.7	6.0	49.4	8.1	113.3	5	N	1024
4	183	21.4	6.0	39.2	10.2	128.1	4	N	1024
5	165	21.7	6.5	43.6	8.4	131.3	4	N	1023
6	172	19.4	6.2	39.2	8.7	122.5	4	N	1023
7	162	23.6	6.3	44.7	7.8	111.0	2	N	1023
8	132	29.5	7.4	41.0	7.8	93.5	2	NNE	1023
9	147	31.8	7.2	67.7	7.2	80.0	4	NNE	1023
10	116	34.3	7.3	55.7	8.4	76.3	2	N	1023
11	103	38.5	7.5	54.9	7.5	78.6	0	-	1021
12	96	42.5	8.0	64.5	7.5	91.2	0	-	1020
13	116	32.8	7.0	47.2	7.5	107.6	2	SE	1019
14	104	38.0	7.8	48.0	12.6	125.3	1	S	1018
15	119	42.8	7.2	68.8	8.1	139.1	3	SSW	1017
16	127	50.8	6.6	78.7	8.4	138.6	2	S	1016
17	154	49.2	5.9	79.1	6.6	126.0	0	-	1016
18	157	47.9	5.7	74.3	6.6	102.1	0	-	1015
19	153	44.0	6.0	71.4	7.2	70.6	0	-	1015
20	143	36.5	6.1	61.5	6.6	40.2	4	N	1015
21	130	25.8	6.5	54.9	6.9	14.3	4	N	1014
22	168	21.0	5.7	39.6	5.7	1.8	5	N	1013
23	187	22.3	5.3	40.6	6.3	6.9	7	NNE	1011

HOUR	WAVE NUMBER	1979		02 11		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	207	25.8	4.3	43.2	5.1	24.8	7	NNE	1009
1	210	25.7	4.4	41.0	6.9	53.6	7	NNE	1007
2	217	23.5	4.2	42.1	6.9	88.3	5	N	1008
3	134	29.4	7.5	40.6	7.5	117.0	3	N	1008
4	78	96.1	8.8	154.9	8.7	139.7	1	NNE	1008
5	67	143.0	9.6	263.7	8.7	148.9	2	NNE	1009
6	67	152.0	9.8	210.9	9.9	142.1	2	N	1009
7	73	182.3	9.8	260.0	9.6	127.1	3	NNW	1010
8	71	178.6	9.7	259.6	9.9	107.8	2	N	1011
9	69	161.8	10.1	232.2	9.3	93.6	1	E	1011
10	75	171.1	9.7	265.5	8.7	80.4	3	SSE	1011
11	72	143.9	9.8	201.0	10.5	81.2	3	SSE	1010
12	74	180.8	10.5	271.0	9.6	91.9	5	S	1009
13	81	151.5	9.6	248.3	8.7	109.7	5	SSE	1008
14	104	116.5	9.0	161.1	8.7	132.4	5	SSE	1008
15	91	138.1	9.1	210.6	7.8	150.1	4	SE	1008
16	93	108.6	8.7	183.8	9.0	158.6	2	E	1008
17	84	118.0	9.1	191.5	8.4	152.9	2	NNE	1009
18	90	107.1	8.8	178.0	9.9	133.1	2	NNE	1009
19	107	95.6	7.8	141.0	8.1	103.0	4	NNE	1010
20	94	97.1	8.5	121.9	6.9	65.0	4	NNE	1011
21	97	73.6	8.1	108.8	7.2	32.2	4	NNE	1012
22	88	80.0	7.9	174.0	8.4	10.8	4	N	1012
23	92	51.2	8.1	70.7	8.1	4.1	3	NNE	1012

HOUR	WAVE NUMBER	1979		02 12		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	98	46.3	8.4	79.8	8.1	15.8	2	NNE	1013
1	94	60.7	8.2	87.2	9.6	40.5	3	N	1013
2	94	60.7	8.2	88.3	8.1	74.3	2	N	1013
3	92	76.0	8.1	95.6	8.7	107.4	3	N	1013
4	110	73.9	7.2	128.9	7.5	134.3	3	N	1013
5	112	66.2	7.4	128.2	8.4	149.0	3	N	1014
6	118	67.0	7.6	118.7	8.4	150.1	4	N	1014
7	115	57.6	8.0	88.6	7.5	138.4	4	N	1015
8	111	59.8	7.4	105.8	7.2	118.8	3	N	1016
9	120	51.9	7.2	81.7	8.1	95.4	3	N	1016
10	100	49.1	7.7	64.5	7.5	75.0	1	SE	1016
11	104	53.7	7.4	77.6	8.7	66.4	2	SSE	1016
12	120	43.7	6.9	61.5	6.6	70.8	2	S	1015
13	125	44.4	6.8	83.1	6.9	86.2	3	SSE	1015
14	129	49.9	7.0	71.0	6.9	112.2	5	S	1014
15	164	49.3	6.0	87.5	7.2	135.9	4	S	1014
16	149	52.1	5.8	87.2	7.2	153.3	3	S	1014
17	149	54.4	6.2	87.9	7.8	155.8	0	-	1015
18	136	52.7	6.2	90.8	6.6	144.1	0	-	1015
19	125	53.9	6.2	76.9	6.9	117.4	1	NNW	1016
20	115	62.2	6.6	93.8	6.0	81.1	2	N	1016
21	116	55.4	6.7	88.3	6.9	46.0	3	N	1016
22	101	54.1	6.9	92.3	7.2	16.3	2	N	1016
23	106	34.6	6.6	58.6	6.6	0.5	2	N	1016

HOUR	WAVE NUMBER	19/9		02		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	102	33.2	6.5	62.6	5.7	3.7	3	N	1016
1	121	33.3	6.2	49.8	6.0	23.9	3	N	1016
2	139	38.5	6.4	56.8	7.2	54.5	3	N	1016
3	135	48.1	6.8	69.9	6.0	89.7	3	N	1016
4	121	36.4	6.5	59.0	5.7	123.0	1	NNE	1017
5	133	34.0	6.1	53.5	5.7	144.4	2	N	1017
6	137	31.1	6.1	43.9	6.0	153.5	3	N	1018
7	150	30.7	6.0	52.0	7.2	146.7	3	NNE	1019
8	159	32.3	6.1	58.6	6.3	126.9	3	NNE	1019
9	174	34.8	5.6	81.7	6.0	100.4	5	NNE	1020
10	175	34.1	5.2	56.4	5.4	76.8	5	NNE	1020
11	169	29.3	5.6	59.0	8.1	60.9	4	NE	1020
12	146	28.7	6.1	41.0	5.4	60.0	2	E	1019
13	170	30.8	5.9	58.6	6.3	71.3	4	ESE	1018
14	158	34.1	6.0	48.3	6.6	95.4	4	SE	1018
15	170	29.1	5.9	48.7	6.0	120.5	3	SE	1018
16	142	28.3	5.9	46.1	6.9	144.3	1	S	1018
17	158	28.6	5.7	46.1	6.9	155.1	2	W	1018
18	149	27.9	6.2	45.4	4.8	149.9	0	-	1019
19	153	26.6	6.2	39.9	5.4	130.6	2	NE	1019
20	144	25.7	6.4	37.7	8.1	99.8	2	NNW	1019
21	172	23.1	5.7	37.7	5.4	64.1	3	NNW	1019
22	176	15.5	5.7	30.0	7.8	33.5	3	NNW	1019
23	132	9.9	7.3	15.7	9.3	12.6	3	NNW	1018

HOUR	WAVE NUMBER	19/9		02		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	156	7.8	6.8	12.8	8.1	2.3	3	NNW	1018
1	125	13.0	7.8	22.0	8.1	15.9	3	N	1017
2	145	19.2	7.3	36.3	8.7	45.1	2	N	1016
3	149	20.3	7.1	36.3	9.3	78.9	3	N	1015
4	125	18.1	7.5	37.0	8.4	111.5	2	N	1015
5	166	17.2	6.5	34.1	9.0	141.8	2	N	1014
6	145	22.8	7.0	43.2	9.9	154.2	2	N	1014
7	165	18.9	6.4	32.2	6.3	152.0	3	N	1014
8	144	21.7	7.2	41.0	8.1	138.1	3	N	1014
9	140	22.1	7.1	46.9	7.8	113.8	2	NNW	1013
10							2	N	1011
11							1	NNW	1012
12	120	27.0	6.8	38.8	7.8	57.9	0	-	1010
13	118	24.9	7.4	42.8	8.1	67.4	1	SE	1008
14	121	23.9	7.5	42.8	6.9	84.6	5	S	1007
15							3	SSW	1007
16	186	38.9	4.5	70.7	6.0	138.1	3	SSW	1006
17	181	32.4	5.1	54.6	6.3	157.9	2	SW	1005
18	154	33.2	5.9	54.2	6.3	163.0	1	SW	1005
19	171	35.4	4.7	50.9	6.0	150.6	2	NNW	1005
20	158	35.1	4.9	53.1	5.7	127.8	2	N	1005
21	184	29.4	5.0	45.0	8.4	96.3	5	N	1005
22	196	26.2	5.0	54.9	6.6	65.1	5	NNE	1005
23	172	20.9	5.3	36.3	7.8	36.6	5	NNE	1005

HOUR	WAVE NUMBER	19/9		02 15		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	166	20.6	5.9	37.4	6.3	22.1	6	NNE	1005
1	140	30.1	6.5	43.6	6.0	26.9	4	NNE	1005
2	139	26.4	7.3	38.1	6.3	48.9	3	N	1005
3	130	35.7	6.9	59.3	7.2	77.7	2	NE	1005
4	111	42.1	6.9	65.9	6.9	111.3	2	NE	1006
5	119	49.3	6.6	83.1	6.3	140.9	2	NNE	1006
6	113	47.5	6.6	79.8	6.3	159.3	0	-	1006
7	117	52.7	6.5	92.3	6.3	164.8	0	-	1006
8	123	53.6	6.5	90.5	6.0	155.2	2	ENE	1006
9	121	50.8	6.6	81.3	6.6	130.1	2	NE	1006
10	121	53.4	6.4	90.1	6.6	103.7	2	E	1005
11	114	43.4	6.4	56.0	6.9	78.2	2	SE	1004
12	136	45.8	6.0	69.9	6.3	63.5	3	SE	1003
13	141	39.7	5.9	63.4	5.4	62.3	4	SE	1001
14							4	S	1000
15							10	SW	999
16	141	142.6	5.1	215.7	5.1	-55.4	10	SW	998
17	145	166.2	4.8	285.3	4.8	-55.4	14	SW	998
18	139	176.0	5.3	247.2	5.4	-55.4	14	SW	998
19	132	198.8	5.3	250.1	4.8	-55.4	12	WSW	1000
20	138	167.3	5.3	227.4	4.8	-55.4	10	WSW	1001
21	132	131.7	5.4	209.1	5.4	-55.4	2	ENE	1002
22	135	110.3	5.5	168.1	5.1	85.3	5	W	1002
23	124	90.8	5.8	172.5	5.7	56.1	2	NNW	1003

HOUR	WAVE NUMBER	19/9		02 16		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	134	76.1	5.6	124.5	6.6	36.5	4	NE	1004
1	120	61.7	6.1	97.8	5.7	31.9	3	NE	1005
2	122	65.1	6.1	106.2	6.0	44.8	2	N	1006
3	117	69.6	6.1	88.6	5.4	65.8	3	NNE	1006
4	119	73.5	5.9	123.8	5.4	98.1	2	N	1006
5	117	67.9	6.9	108.0	5.1	127.6	1	N	1007
6	106	83.6	7.4	139.5	7.5	151.0	0	-	1008
7	91	88.7	7.9	130.7	8.1	158.6	1	N	1009
8	100	89.1	7.5	117.6	6.9	151.5	1	N	1010
9	95	79.8	7.3	109.9	7.2	132.0	1	N	1010
10	109	70.5	7.0	100.7	7.2	105.3	2	E	1010
11	109	69.8	7.0	98.5	6.9	78.2	3	SE	1010
12	98	68.3	6.8	90.1	7.8	55.0	2	SSE	1009
13	123	52.9	6.4	73.6	6.9	46.9	4	S	1008
14	132	55.1	6.1	83.5	6.0	53.1	4	S	1008
15	121	47.0	6.3	60.1	6.9	69.9	3	S	1008
16	124	50.9	6.0	71.0	5.7	94.5	3	S	1008
17	148	46.1	6.0	75.4	6.9	119.5	3	SW	1008
18	134	54.2	6.0	99.6	6.3	139.1	2	SW	1008
19	126	61.9	6.4	102.5	6.3	145.5	2	NNW	1009
20	120	62.2	6.3	114.3	6.0	138.8	3	N	1009
21	121	73.0	6.4	118.3	6.6	120.2	3	N	1010
22	107	68.1	6.4	102.9	6.3	94.0	3	NNW	1010
23	121	65.3	6.2	106.9	6.3	66.6	3	NNW	1010

HOUR	WAVE NUMBER	19/9		02		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	116	66.4	6.1	103.3	5.7	46.4	3	N	1011
1	124	57.0	6.2	89.7	5.4	33.6	2	N	1011
2	127	46.1	6.2	66.7	6.3	35.8	2	NNW	1011
3	122	54.1	5.7	82.0	5.4	53.5	3	N	1011
4	128	50.9	5.9	83.5	5.7	77.9	2	N	1011
5	149	35.3	5.8	54.9	5.7	109.0	3	N	1011
6	146	35.7	5.9	56.4	6.0	134.9	2	NNW	1011
7	149	36.1	5.8	61.9	5.7	147.3	2	N	1011
8	161	33.8	5.8	49.8	6.9	150.4	3	N	1011
9	181	28.8	5.5	47.6	5.1	137.5	4	NNE	1011
10	168	29.2	5.8	58.2	8.1	113.5	4	N	1009
11	157	29.1	6.2	45.4	7.2	86.7	3	NE	1009
12	161	22.6	6.0	39.2	5.1	63.7	4	N	1008
13	184	21.6	5.3	44.3	7.8	46.7	6	N	1006
14	200	19.9	5.2	37.4	7.5	45.0	5	N	1005
15	202	22.3	5.1	38.1	7.8	56.5	6	N	1004
16	188	24.6	5.4	51.3	7.8	79.3	5	NNE	1003
17	156	22.4	6.5	40.3	7.8	100.5	4	N	1002
18	139	29.0	7.8	47.6	7.8	121.4	4	N	1001
19	126	44.7	7.4	70.3	6.9	134.9	4	NNE	1001
20	106	62.1	7.4	95.9	6.9	138.9	3	N	1000
21	111	78.7	7.3	104.4	6.9	130.8	4	N	1000
22	96	70.2	7.4	105.8	7.2	109.7	2	N	999
23	87	92.3	8.0	124.9	8.1	87.8	2	N	999

HOUR	WAVE NUMBER	19/9		02		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	90	103.2	7.7	140.6	7.8	69.9	2	NW	999
1	111	147.3	7.2	267.3	9.0	56.8	4	N	999
2	99	158.8	7.8	216.8	9.0	51.5	3	N	1000
3	92	167.4	8.0	228.9	9.9	60.5	2	W	1001
4	103	142.6	7.4	235.8	9.3	83.5	3	NW	1001
5	97	135.3	8.1	180.2	4.8	108.5	3	WSW	1002
6	98	154.5	8.6	229.2	7.2	130.3	10	SW	1002
7	117	160.5	7.5	209.5	10.5	150.8	12	SW	1004
8	111	160.8	7.4	262.6	9.9	154.9	10	SW	1005
9	101	146.9	8.6	224.9	8.4	148.1	8	SW	1006
10	107	130.5	8.3	192.6	8.4	128.3	7	SW	1006
11	101	141.8	8.4	215.3	8.1	103.2	6	SW	1006
12	94	155.2	9.1	263.7	9.3	77.3	7	SSW	1006
13	98	152.6	8.5	224.9	9.0	56.1	7	S	1006
14	95	144.8	8.7	228.1	8.4	45.0	5	SE	1006
15	96	128.6	7.9	179.8	8.1	48.1	6	ESE	1006
16	100	120.9	7.9	168.1	8.1	60.5	5	E	1007
17	108	99.9	7.6	158.9	9.0	78.2	4	E	1007
18	111	99.4	7.3	196.7	7.5	96.8	4	NNE	1008
19	96	105.5	8.6	142.8	7.5	114.0	5	NNE	1009
20	84	102.3	8.8	146.5	9.3	124.1	5	N	1010
21	89	103.7	8.5	151.6	9.3	121.8	4	N	1010
22	101	94.6	8.0	126.7	8.1	111.5	2	N	1010
23	84	103.0	7.2	149.4	8.1	98.8	0	-	1010

HOUR	WAVE NUMBER	1979		02 19		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	94	96.1	6.8	129.3	6.3	82.0	1	N	1009
1	97	97.5	6.8	160.8	6.0	66.2	3	N	1009
2	97	88.7	7.5	161.1	6.6	62.5	4	N	1008
3	115	87.0	6.7	137.3	8.1	64.4	1	N	1008
4	107	96.8	6.4	150.9	7.2	74.0	3	NNW	1007
5	127	83.4	6.1	122.7	6.6	92.7	2	N	1007
6	120	83.7	6.1	126.7	6.9	116.1	2	N	1007
7	116	89.5	6.5	160.4	6.9	134.3	1	W	1007
8	132	103.3	6.2	168.8	5.4	143.5	5	WSW	1007
9	127	109.3	6.1	172.9	7.5	141.6	1	SW	1007
10	115	127.0	6.7	218.3	5.7	129.2	6	SW	1007
11	121	120.8	6.6	162.6	5.7	111.2	7	SW	1006
12	135	119.6	6.4	188.2	7.2	88.5	6	SSW	1006
13	131	108.2	6.0	190.4	6.3	63.2	4	SE	1006
14	115	124.8	6.3	180.5	6.6	49.7	4	NE	1007
15	119	117.9	6.8	205.1	6.0	42.8	4	NE	1008
16	113	110.9	7.0	194.5	6.3	46.9	4	NE	1008
17	123	91.2	6.6	163.3	6.6	58.9	4	NNE	1009
18	114	110.4	6.8	178.3	6.9	72.2	4	NNE	1011
19	106	83.6	7.2	113.9	6.0	90.4	5	NNE	1012
20	109	80.4	7.0	117.9	7.5	102.5	5	NNE	1013
21	106	73.1	7.3	118.7	7.5	109.9	3	N	1014
22	113	68.7	7.3	116.5	7.5	112.0	2	N	1015
23	102	64.8	7.3	92.7	6.9	103.9	3	N	1015

HOUR	WAVE NUMBER	1979		02 20		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	108	60.7	7.0	93.8	6.9	94.7	2	N	1015
1	124	52.7	6.8	94.8	7.8	85.8	3	N	1016
2	142	40.6	6.7	65.6	6.6	79.5	3	N	1016
3	110	44.4	7.1	72.1	7.2	74.7	0		0
4	127	45.8	6.9	80.9	6.0	78.9	3	NNW	1017
5	128	41.2	6.8	71.8	6.9	89.0	2	N	1018
6	119	40.6	6.9	56.8	5.7	104.1	2	NNW	1018
7	133	36.8	6.9	52.0	8.7	118.9	3	NNW	1019
8	135	36.3	6.8	57.9	7.8	128.9	2	N	1019
9	145	33.6	6.6	53.5	6.0	132.6	3	N	1020
10	148	32.8	6.3	55.3	6.9	125.7	2	N	1020
11	158	29.9	6.2	56.8	8.1	111.9	3	N	1019
12	130	32.4	6.6	49.8	6.9	95.4	0	-	1019
13	125	27.9	6.5	42.5	5.1	74.3	2	S	1018
14	141	27.2	6.7	45.8	6.3	55.9	2	SSE	1018
15	162	28.1	6.1	46.9	6.0	43.2	5	S	1017
16	175	28.2	5.7	50.5	7.8	37.7	3	S	1017
17	185	31.4	5.0	48.3	7.5	38.4	3	SSW	1017
18	190	33.3	4.4	52.4	6.6	43.9	3	SW	1017
19	178	40.1	4.6	67.4	5.7	55.8	0	-	1017
20	173	38.4	5.0	59.7	6.6	68.5	0	-	1017
21	161	31.6	5.0	45.0	7.5	82.0	3	N	1018
22	171	31.9	5.1	60.4	3.9	89.7	3	N	1018
23	173	39.0	4.6	69.2	3.3	96.1	2	NNW	1018

HOUR	WAVE NUMBER	1979		02 21		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	172	35.4	4.5	50.5	4.2	97.9	2	N	1018
1	178	33.6	4.3	57.9	3.6	94.9	2	N	1018
2	185	35.9	4.1	49.4	3.6	90.3	4	N	1017
3	185	28.7	4.4	42.5	6.3	86.0	3	N	1017
4	167	30.8	5.5	49.1	6.0	84.6	3	N	1017
5	210	29.1	3.9	46.5	4.2	88.0	3	N	1017
6	165	31.1	5.3	41.7	8.1	92.7	3	N	1017
7	157	29.3	5.6	49.4	6.3	104.1	3	N	1017
8	179	29.9	5.2	45.0	6.3	114.5	4	N	1018
9	178	35.9	4.0	58.6	3.3	120.4	2	S	1017
10	196	50.1	3.7	77.6	3.6	121.6	4	S	1017
11	208	59.0	3.4	97.0	3.0	117.5	9	SW	1016
12	211	63.0	3.2	105.1	3.6	107.4	10	SW	1016
13	200	78.2	3.3	150.9	3.3	90.4	11	SW	1015
14	201	70.0	3.5	144.3	4.2	73.6	9	SW	1014
15	176	93.3	4.0	147.2	4.2	59.3	10	SW	1013
16	173	95.9	4.1	163.0	3.3	42.8	10	SW	1013
17	181	80.3	4.1	126.3	4.8	33.6	8	SW	1013
18	185	74.2	3.9	111.0	4.5	29.6	10	SW	1014
19	179	64.5	4.0	100.7	3.6	32.7	4	WSW	1014
20	169	59.9	4.1	93.0	4.8	42.7	2	WSW	1014
21	180	69.1	4.0	129.6	4.8	56.1	4	WSW	1014
22	178	60.6	4.1	84.2	3.9	70.8	4	WSW	1014
23	179	67.5	3.9	100.0	4.2	87.6	4	WSW	1014

HOUR	WAVE NUMBER	1979		02 22		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	186	76.7	3.8	112.1	3.9	99.5	7	WSW	1014
1	169	82.4	4.0	139.9	4.2	108.9	3	W	1013
2	189	57.6	3.8	85.0	3.9	112.6	0	-	1013
3	178	61.7	4.0	86.1	3.3	109.7	0	-	1013
4	165	54.7	4.3	86.4	4.8	105.8	3	N	1013
5	170	41.5	4.5	74.3	4.5	102.1	3	NNW	1014
6	192	37.5	4.8	63.4	4.5	99.1	5	N	1015
7	204	32.1	4.4	60.1	7.8	100.2	6	N	1016
8	197	24.3	5.2	36.3	7.8	104.1	6	NNE	1017
9	217	22.4	4.3	48.3	6.9	111.3	6	NNE	1018
10	217	27.9	4.1	57.9	6.3	115.4	6	NNE	1018
11	204	24.5	4.8	45.4	9.9	120.2	4	NE	1018
12	178	26.6	5.7	46.5	7.8	118.8	3	ENE	1018
13	159	26.6	6.4	43.9	9.3	111.5	4	SSE	1017
14	125	29.1	6.9	46.1	6.0	98.6	2	S	1017
15	117	33.9	7.0	50.2	8.7	81.8	1	S	1017
16	147	34.6	6.8	54.9	7.8	62.8	6	ESE	1017
17	163	46.3	5.6	77.6	5.7	43.0	4	E	1018
18	179	52.0	4.4	76.2	5.1	28.0	3	ENE	1018
19	145	53.1	5.7	83.1	4.8	19.1	3	NNE	1019
20	135	46.6	6.2	64.5	7.2	15.9	4	NNE	1019
21	142	43.3	5.9	69.9	6.0	23.0	4	N	1019
22	149	44.2	6.4	74.3	7.2	41.6	4	N	1019
23	142	45.2	6.4	76.9	6.0	61.1	5	N	1018

HOUR	WAVE NUMBER	1979		02 23		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	157	34.9	6.4	57.1	7.5	82.7	5	N	1018
1	151	36.4	6.4	59.0	7.2	105.1	5	NNE	1017
2	155	38.5	6.6	61.9	7.5	118.6	6	N	1017
3	157	33.3	6.7	56.4	7.5	123.0	5	N	1016
4	161	34.1	6.5	60.4	7.2	121.8	5	N	1015
5	163	32.0	6.1	50.2	6.9	113.3	5	N	1014
6	163	27.3	6.2	50.9	9.0	105.5	6	N	1014
7	150	30.5	6.5	69.6	7.2	98.8	5	NNE	1014
8	151	30.1	6.8	50.2	7.2	95.2	4	NNE	1014
9	133	36.9	6.7	63.4	6.9	98.2	4	N	1014
10	153	33.0	6.6	74.0	6.9	106.2	4	NNE	1013
11	149	33.5	6.5	81.3	7.8	115.4	4	NNE	1012
12	153	38.5	6.9	72.1	8.1	126.6	5	NNE	1010
13	142	37.3	6.7	63.4	7.2	132.0	6	NNE	1008
14	172	33.5	6.0	59.3	8.4	128.3	6	NNE	1007
15	140	38.0	6.7	69.9	8.1	120.0	5	NNE	1006
16	139	31.9	6.8	50.9	7.5	102.5	6	NNE	1005
17	144	28.3	6.7	53.1	7.8	77.2	5	NNE	1005
18	145	30.0	6.8	49.4	6.3	54.3	6	NNE	1005
19	184	26.0	5.7	48.7	6.9	30.8	7	NNE	1004
20	174	27.1	5.9	45.0	8.1	18.6	7	NNE	1003
21	182	31.4	5.3	70.3	7.8	18.1	7	NNE	1002
22	197	30.1	5.2	60.4	8.4	30.4	8	NNE	1000
23	204	34.2	4.6	56.0	6.3	54.3	9	NNE	999

HOUR	WAVE NUMBER	1979		02 24		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	172	45.4	6.1	80.6	8.1	79.8	8	NNE	999
1	140	58.4	7.5	95.2	8.1	113.3	8	NNE	998
2	137	68.5	7.6	132.9	8.1	140.4	7	NNE	997
3	125	61.4	8.2	96.7	7.8	155.4	7	NNE	996
4	117	75.6	8.8	147.2	9.0	161.4	7	NNE	996
5	124	68.4	8.3	122.7	9.0	157.4	7	NNE	996
6	122	74.3	8.3	127.4	8.1	142.7	7	NNE	996
7	122	90.2	8.4	130.4	9.0	126.2	8	NNE	996
8	112	83.2	8.6	123.0	8.7	112.2	8	NNE	997
9	139	66.4	7.4	150.5	9.0	111.0	8	NNE	997
10	114	91.1	9.0	154.9	9.3	110.6	7	NNE	996
11	97	98.6	9.1	134.4	8.7	121.1	7	NNE	996
12	100	95.7	9.2	162.6	9.9	137.5	7	NNE	996
13	105	86.4	8.7	172.1	9.0	152.9	6	NNE	995
14	106	118.9	9.1	215.0	9.0	161.1	6	NNE	994
15	91	99.4	9.1	138.8	8.7	163.0	5	NNE	995
16	89	88.1	9.0	120.5	8.4	149.7	6	NNE	995
17	97	102.4	9.0	175.0	9.3	125.8	7	NNE	996
18	115	62.9	8.5	103.3	9.3	94.7	6	N	997
19	86	78.0	9.2	122.7	8.4	59.3	5	N	998
20	96	56.6	8.8	89.0	9.0	31.7	3	NNE	999
21	84	60.3	9.2	85.0	8.4	18.6	3	NNE	999
22	77	76.1	8.8	100.0	8.7	16.6	4	N	1000
23	111	56.8	8.4	111.3	8.1	32.6	5	N	1000

HOUR	WAVE NUMBER	19/9		02 25		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	91	70.2	8.6	123.4	8.7	59.3	3	N	1001
1	79	83.5	8.8	112.4	8.1	97.2	2	N	1002
2	85	82.1	8.0	129.6	7.5	129.7	2	N	1002
3	88	73.5	8.4	107.3	9.3	156.6	3	N	1002
4	101	71.6	8.1	111.3	7.8	169.2	3	N	1002
5	107	69.9	8.1	111.3	7.5	170.3	3	N	1004
6	108	59.7	8.2	95.9	8.7	157.5	3	NNE	1005
7	102	51.7	8.3	82.0	8.7	135.9	4	NNE	1006
8	119	51.5	7.9	78.7	9.0	115.0	4	NNE	1007
9	115	49.9	7.7	82.0	7.5	98.4	3	NE	1007
10	101	54.2	8.0	83.1	7.2	89.9	1	E	1008
11	95	57.7	7.7	107.3	7.2	98.6	3	SE	1008
12	130	60.5	7.1	96.3	7.5	114.5	4	SE	1007
13	130	62.8	6.7	126.3	6.3	136.5	3	SE	1007
14	140	57.5	7.1	64.5	9.0	155.6	4	SSE	1007
15	129	38.9	6.9	56.4	7.5	168.0	3	SSW	1007
16	123	43.6	6.9	64.8	9.6	165.5	2	S	1007
17	128	41.2	7.2	62.3	7.2	148.9	4	SW	1008
18	125	44.3	7.2	67.4	6.0	116.6	2	SSW	1009
19	126	43.8	7.2	60.1	8.7	77.5	4	NE	1009
20	173	41.5	5.1	63.4	6.0	44.6	4	ENE	1010
21	172	44.7	4.9	70.3	4.8	15.8	3	ENE	1011
22	160	40.6	5.1	90.1	6.3	3.4	3	NE	1012
23	173	34.2	5.1	56.8	5.7	6.4	3	N	1011

HOUR	WAVE NUMBER	19/9		02 26		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	152	33.0	6.0	53.8	6.3	26.5	4	N	1011
1	146	37.2	6.1	55.3	5.4	62.1	3	NNW	1011
2	136	35.8	6.0	58.6	7.5	102.5	3	N	1011
3	122	36.1	6.7	59.3	6.6	137.5	3	N	1011
4	130	41.4	6.6	61.2	5.7	163.4	3	N	1010
5	135	39.4	6.8	60.1	6.3	175.2	4	N	1010
6	139	37.4	7.0	56.0	7.5	169.9	4	N	1010
7	136	39.6	6.9	76.9	6.9	149.9	4	N	1010
8	141	38.4	6.6	79.1	6.3	124.1	4	N	1011
9	148	37.1	6.2	66.7	7.2	100.4	4	N	1010
10	134	33.0	6.7	52.7	6.3	84.1	4	N	1010
11	175	25.5	5.8	45.4	9.0	82.0	4	N	1009
12	174	29.8	6.2	50.2	6.0	95.0	4	N	1008
13	161	25.4	6.1	45.4	7.8	116.8	4	N	1007
14	165	26.7	6.5	63.7	8.1	142.3	4	N	1006
15	181	24.6	5.9	50.2	7.2	167.3	5	N	1006
16	173	20.4	6.2	44.7	12.3	180.7	5	N	1005
17	154	20.7	5.9	41.7	9.3	179.1	5	N	1005
18	190	22.8	5.7	37.0	8.1	161.4	6	N	1005
19	197	23.5	4.8	39.6	7.5	127.8	6	NNE	1005
20	217	20.6	4.5	33.7	6.0	88.0	6	N	1004
21	235	17.8	3.9	27.8	1.2	50.1	7	N	1004
22	244	14.8	3.8	28.9	6.9	22.3	7	NNE	1003
23	198	14.3	4.8	23.1	9.0	13.8	7	NNE	1003

HOUR	WAVE NUMBER	19/9		02 27		TIDE	WIND		
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	PRES
0	207	13.0	4.9	26.0	7.5	21.1	4	NNE	1003
1	213	17.4	4.8	32.6	9.6	47.6	5	NNE	1003
2	168	17.9	6.0	32.6	10.8	87.1	3	NE	1002
3	118	22.6	7.9	41.7	7.5	126.2	2	NNE	1002
4	165	20.7	6.1	31.1	6.6	162.0	4	NNE	1002
5	116	26.3	8.2	42.8	5.7	184.1	4	NE	1002
6	154	26.2	6.3	49.4	7.2	186.9	3	N	1002
7	163	29.2	5.8	61.9	6.6	173.6	4	NNE	1001
8	128	33.1	7.1	44.7	6.9	148.7	3	NNE	1001
9	138	36.5	7.1	56.4	8.4	118.6	4	NNE	1000
10	118	42.9	8.1	56.8	11.4	92.7	4	N	1000
11	150	39.0	6.8	67.7	9.0	79.5	7	N	1000
12	178	35.7	5.7	52.7	6.0	82.8	7	N	1000
13	138	36.5	6.8	71.0	6.9	97.9	5	NNE	1000
14	123	35.8	7.4	55.7	6.6	128.3	4	N	999
15	121	47.2	7.0	71.4	6.3	158.6	2	W	999
16	122	40.5	6.9	70.7	7.2	184.1	1	SE	999
17	106	42.9	7.2	61.9	7.2	196.6	1	NW	999
18	106	50.9	7.4	89.0	6.6	189.6	5	WNW	1000
19	100	64.8	7.2	89.0	6.0	164.3	2	WNW	1001
20	96	72.5	7.4	122.3	8.1	126.9	1	W	1001
21	106	66.5	7.4	97.4	7.2	84.6	2	WNW	1001
22	107	78.1	7.3	127.4	6.9	47.8	2	W	1001
23	110	56.5	6.8	81.3	6.3	26.7	3	W	1001

HOUR	WAVE NUMBER	19/9		02 28		TIDE	WIND		
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	PRES
0	116	50.0	7.2	67.7	6.0	24.4	4	WSW	1001
1	139	48.2	6.2	79.8	8.1	38.9	2	NW	1001
2	113	75.0	7.4	125.6	6.9	68.0	2	NNE	1000
3	123	67.7	6.6	105.5	7.8	106.0	2	W	1000
4	117	86.5	6.7	111.0	6.3	143.0	4	NW	999
5	116	95.1	7.7	139.5	8.4	174.3	4	NE	1000
6	98	112.5	7.4	182.0	8.1	187.3	3	NNE	1000
7	88	130.4	8.4	181.6	8.1	180.4	0	-	1000
8	100	108.9	7.2	156.4	7.2	156.6	0	-	1001
9	101	114.0	7.4	169.6	6.6	125.0	3	ESE	1001
10	98	107.5	7.6	184.2	6.9	89.6	2	ESE	1001
11	109	90.1	6.8	119.8	7.2	68.1	3	ESE	1000
12	105	90.6	7.2	141.4	8.1	60.9	4	SE	1000
13	103	92.3	7.1	134.4	8.4	69.2	4	S	999
14	130	85.0	6.5	143.6	6.9	91.7	7	WNW	999
15	108	80.5	7.3	127.8	7.5	126.6	4	ENE	999
16	131	83.9	6.9	139.2	7.2	158.6	0	-	1000
17	117	73.5	7.0	118.7	7.2	181.4	3	W	1000
18	119	75.8	7.3	113.5	9.0	186.9	3	N	1001
19	120	59.6	7.0	91.9	8.1	176.8	0	-	1002
20	105	61.9	7.5	80.9	8.7	149.0	2	N	1003
21	86	52.7	8.5	78.4	8.1	111.9	2	NW	1003
22	90	56.7	8.8	74.0	8.7	75.4	3	NNE	1003
23	93	45.6	8.8	77.3	7.8	44.1	3	N	1003

冬期（1978年12月～1979年2月）

風向、風速の分布は、冬型の季節風のために3カ月を通していずれもよく似た分布となっている。風向の頻度分布図によると、北又は北寄りの風が南寄りの風に比べて圧倒的に多いが、一方平均風速分布図によると、逆に南寄りの風（WSWからSまで）が $4\text{ m/s} \sim 5\text{ m/s}$ の北寄りの風に比べて大きく $8\text{ m/s} \sim 9\text{ m/s}$ になっている。

これは次のような低気圧が月に2、3度発達するためである。この低気圧は、中国大陆でできて日本海北部で発達し北海道に進むものである。

風の月別の傾向をみると、12月から2月へと春に近づくにつれて南寄りの風がわずかではあるが多くなっている。上述したように風向風速分布が各々の月ではほぼ同じであるから波高分布も同じ傾向が期待される。しかし波高分布図から示されるように、12月は他の月に比べて低い傾向にある。これは主に12月29日から30日にかけて海が大荒れになった時のデータの欠損によるものと思われる。

この季節の波浪の波高は約50cmの値に集中する分布となっている。このために、上述した低気圧の通過する時期をのぞけば、平塚沿岸は比較的穏やかなものとなる。

（注）12月の波高データは資料集（I）（防災科学技術研究資料No.38, 1979）に掲載されている。

表1 1カ月間の有義波の波高と周期の頻度

	1978 12														
T (SEC) H (CM)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL
0-30	0	3	5	13	51	81	77	13	3	2	0	0	0	0	248
30-60	0	1	16	19	48	84	110	40	6	3	3	0	0	0	330
60-90	0	0	8	10	4	13	23	6	1	0	0	2	1	0	68
90-120	0	0	3	6	3	0	0	0	0	0	0	0	0	0	12
120-150	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
150-180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180-210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
210-240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240-270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
270-300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300-330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
330-360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
360-390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
390-420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
420-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	4	32	50	106	178	210	59	10	5	3	2	1	0	660

	1979 01														
T (SEC) H (CM)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL
0-30	0	1	15	19	49	39	14	1	1	0	2	0	0	1	142
30-60	0	8	16	30	92	100	23	3	0	0	0	0	0	0	272
60-90	0	0	4	24	27	40	10	11	3	0	0	0	0	0	119
90-120	0	0	3	13	13	3	1	13	5	0	0	0	0	0	51
120-150	0	0	0	4	2	0	2	4	4	1	0	0	0	0	17
150-180	0	0	0	2	3	0	2	1	1	1	0	0	0	0	10
180-210	0	0	0	1	3	0	1	2	2	0	0	0	0	0	9
210-240	0	0	0	1	1	2	1	0	0	0	0	0	0	0	5
240-270	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
270-300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300-330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
330-360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
360-390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
390-420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
420-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	9	38	94	190	184	55	35	16	2	2	0	0	1	626

平塚沖波浪観測資料(2) — 渡部・徳田

	1979 02														
T (SEC) H (CM)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL
0- 30	0	0	13	23	57	30	6	0	0	0	0	0	0	0	129
30- 60	0	1	15	31	79	118	32	7	0	0	0	0	0	0	283
60- 90	0	4	11	0	23	39	30	12	0	0	0	0	0	0	119
90-120	0	0	2	0	10	17	12	18	0	0	0	0	0	0	59
120-150	0	0	0	2	8	7	11	5	2	0	0	0	0	0	35
150-180	0	0	0	3	4	3	5	2	5	0	0	0	0	0	22
180-210	0	0	0	1	2	0	1	2	2	0	0	0	0	0	8
210-240	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
240-270	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
270-300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300-330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
330-360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
360-390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
390-420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
420-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	5	41	60	183	214	97	50	9	0	0	0	0	0	659

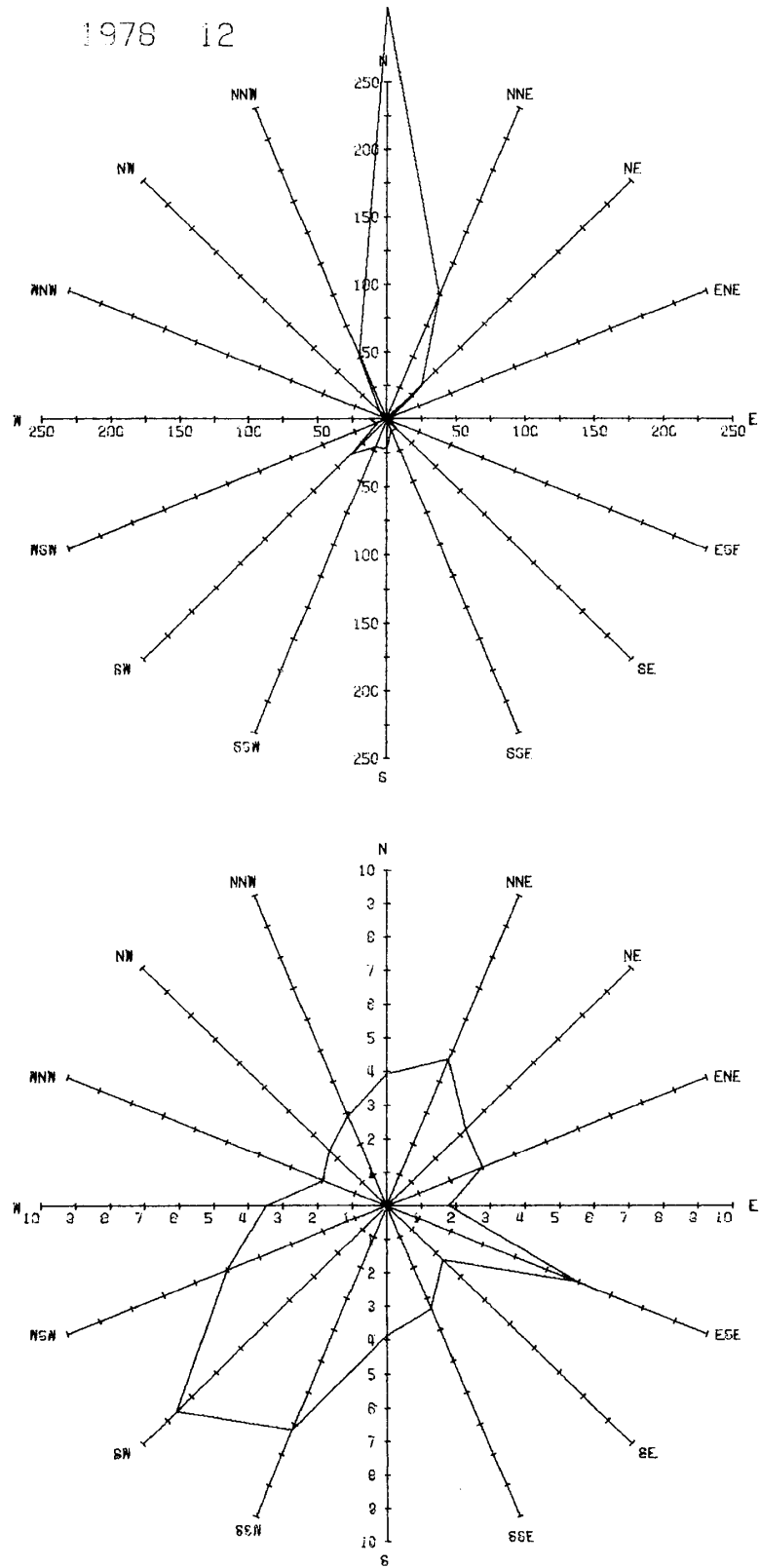


図3 1カ月間の風向・風速分布
上図は風向の頻度分布で、下図は風速の方向分布を示す

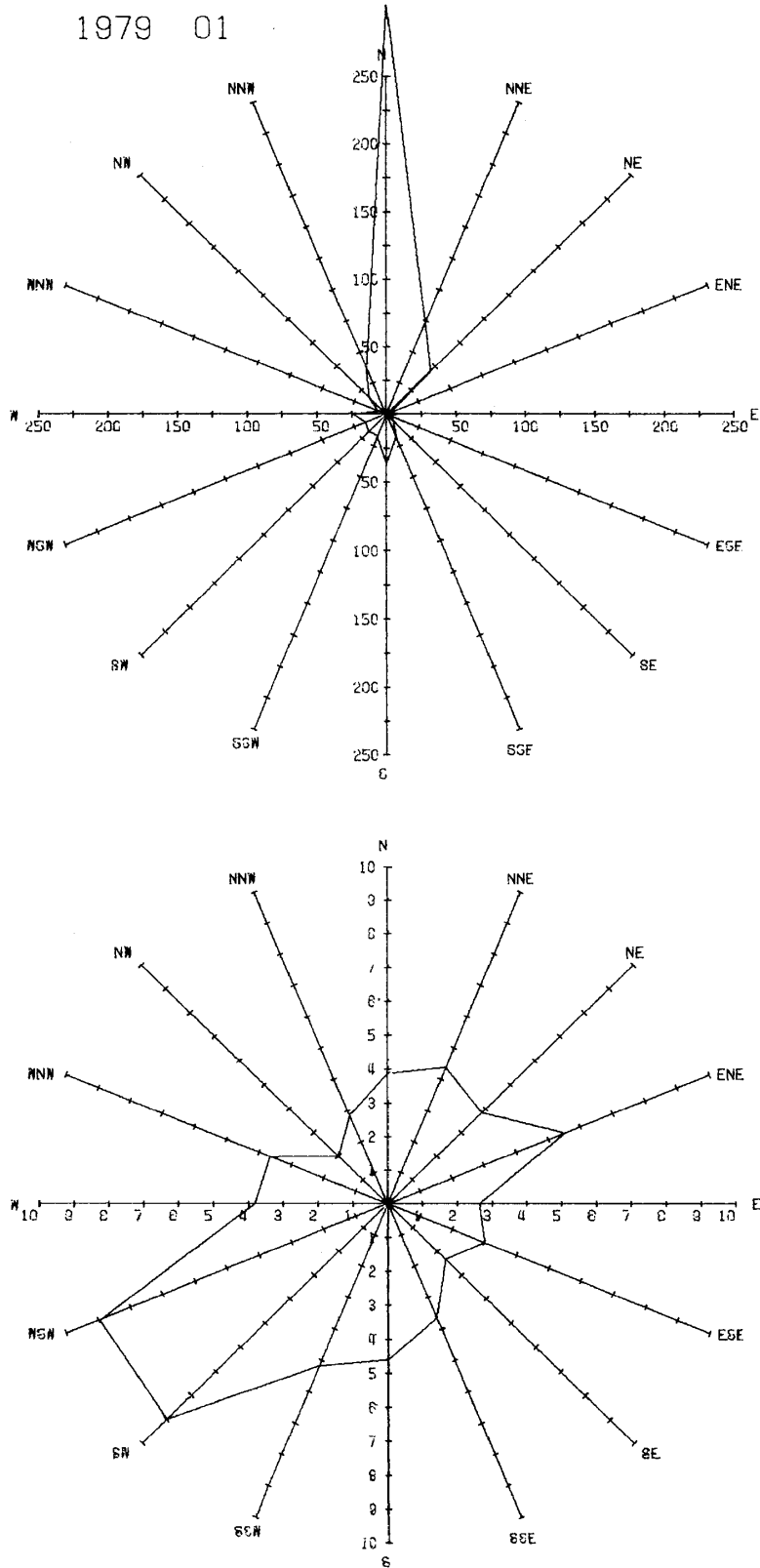


図3 1カ月間の風向・風速分布

上図は風向の頻度分布で、下図は風速の方向分布を示す

1979 02

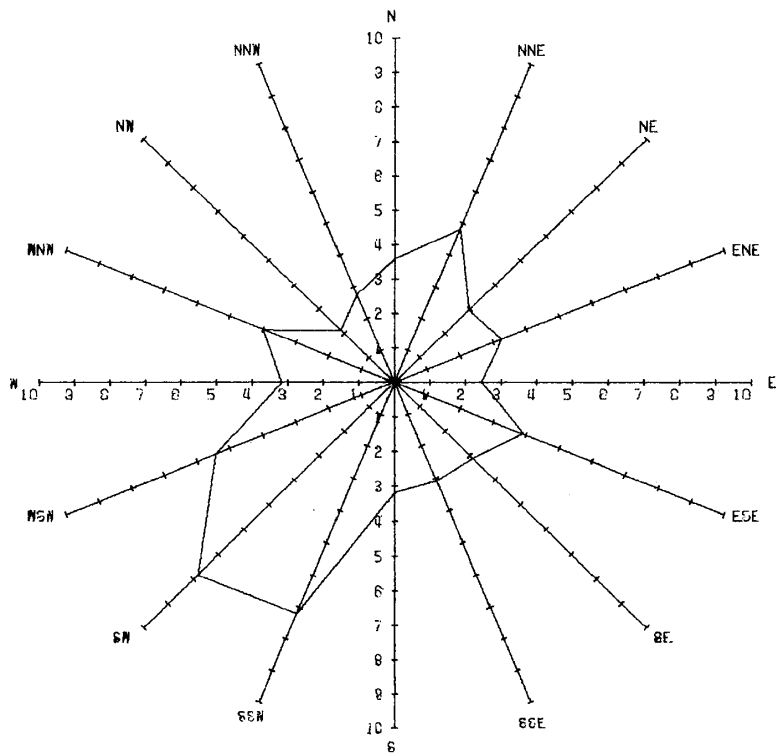
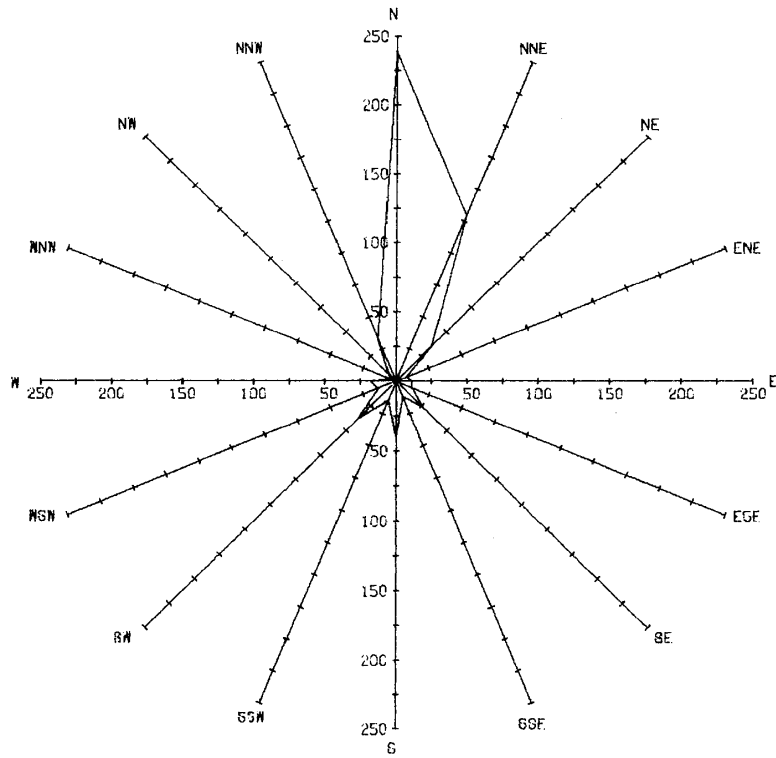


図3 1ヵ月間の風向・風速分布

上図は風向の頻度分布で、下図は風速の方向分布を示す

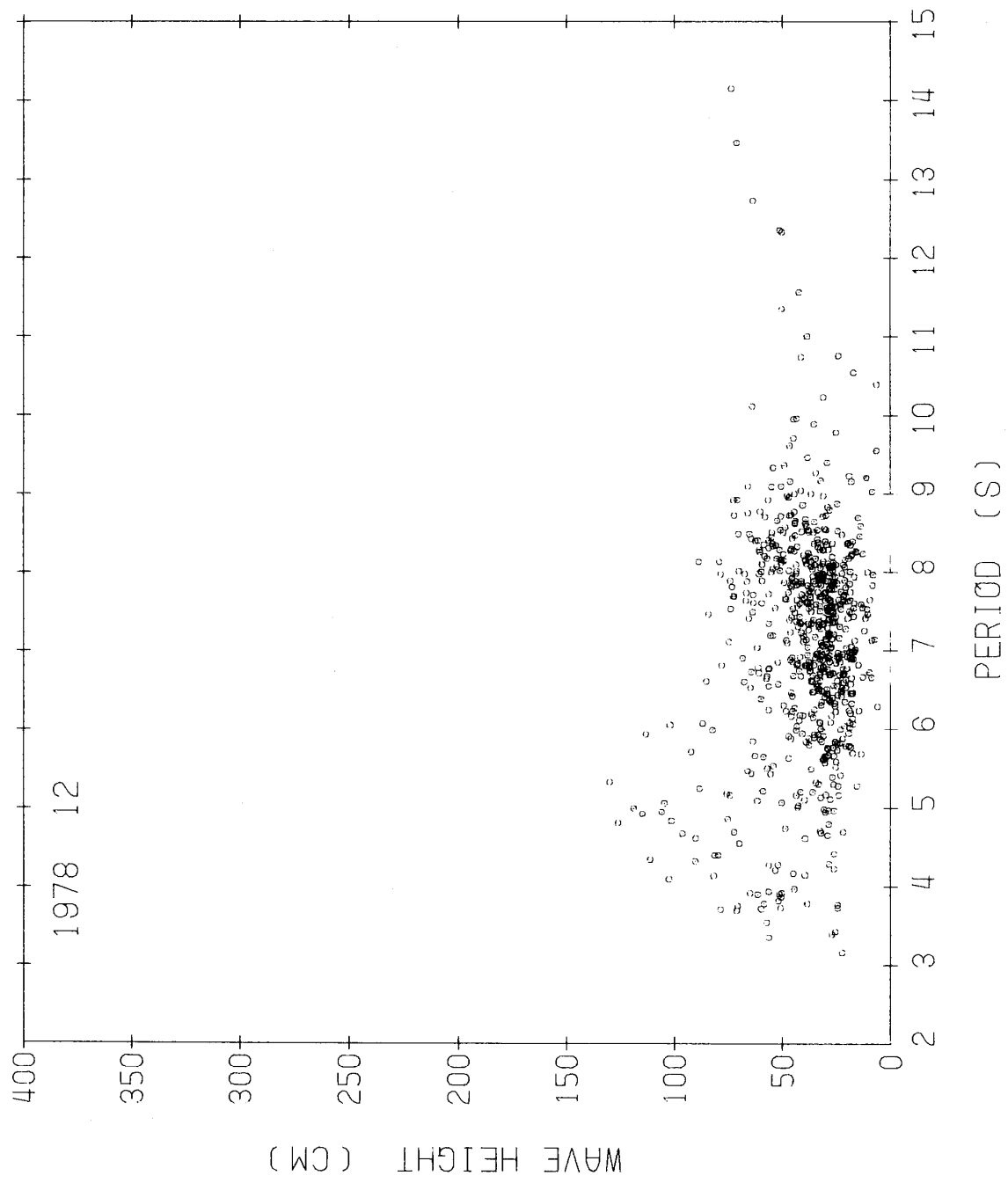


図4 1ヵ月間の有義波の波高と周期の頻度分布

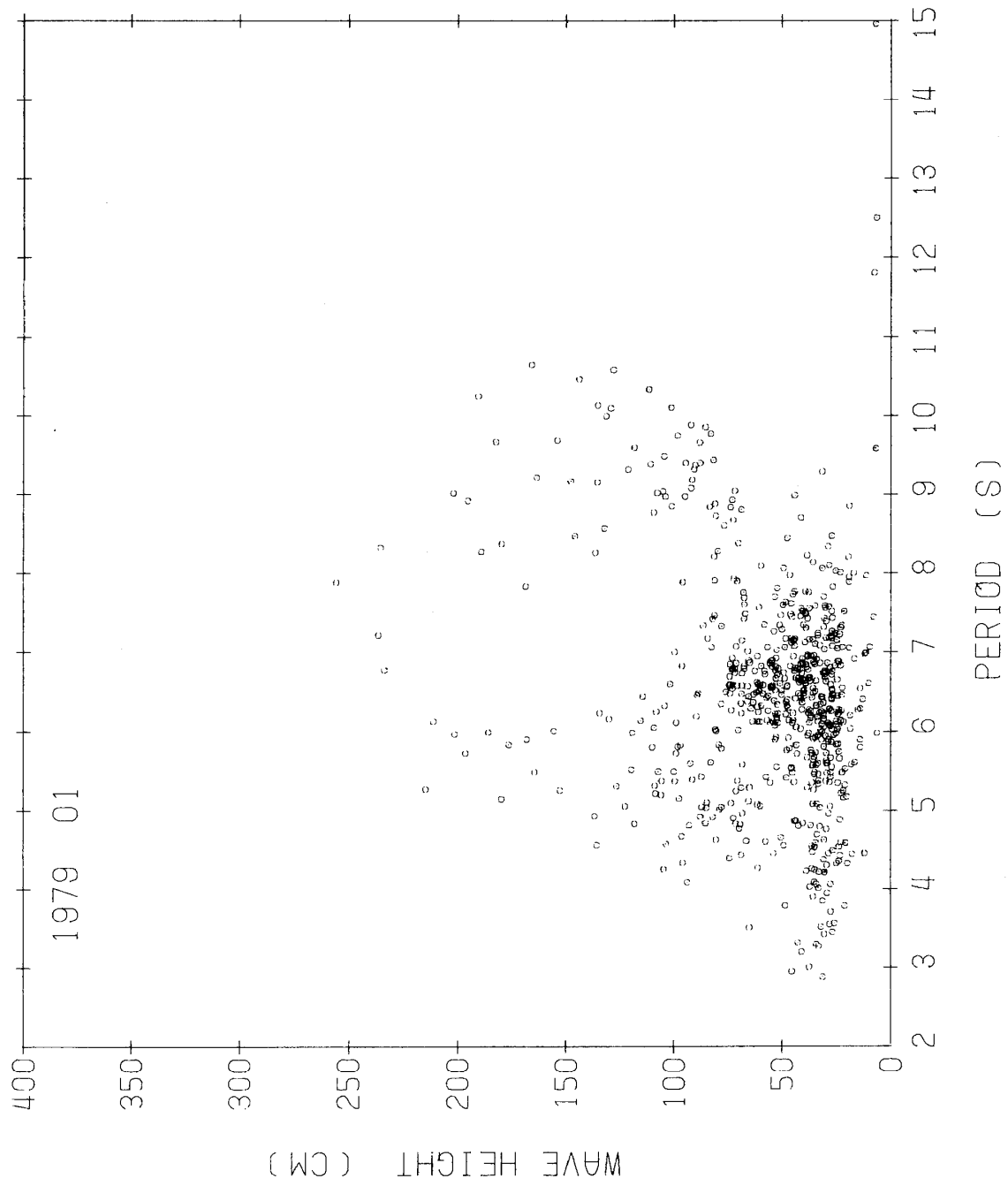


図4 1ヵ月間の有義波の波高と周期の頻度分布

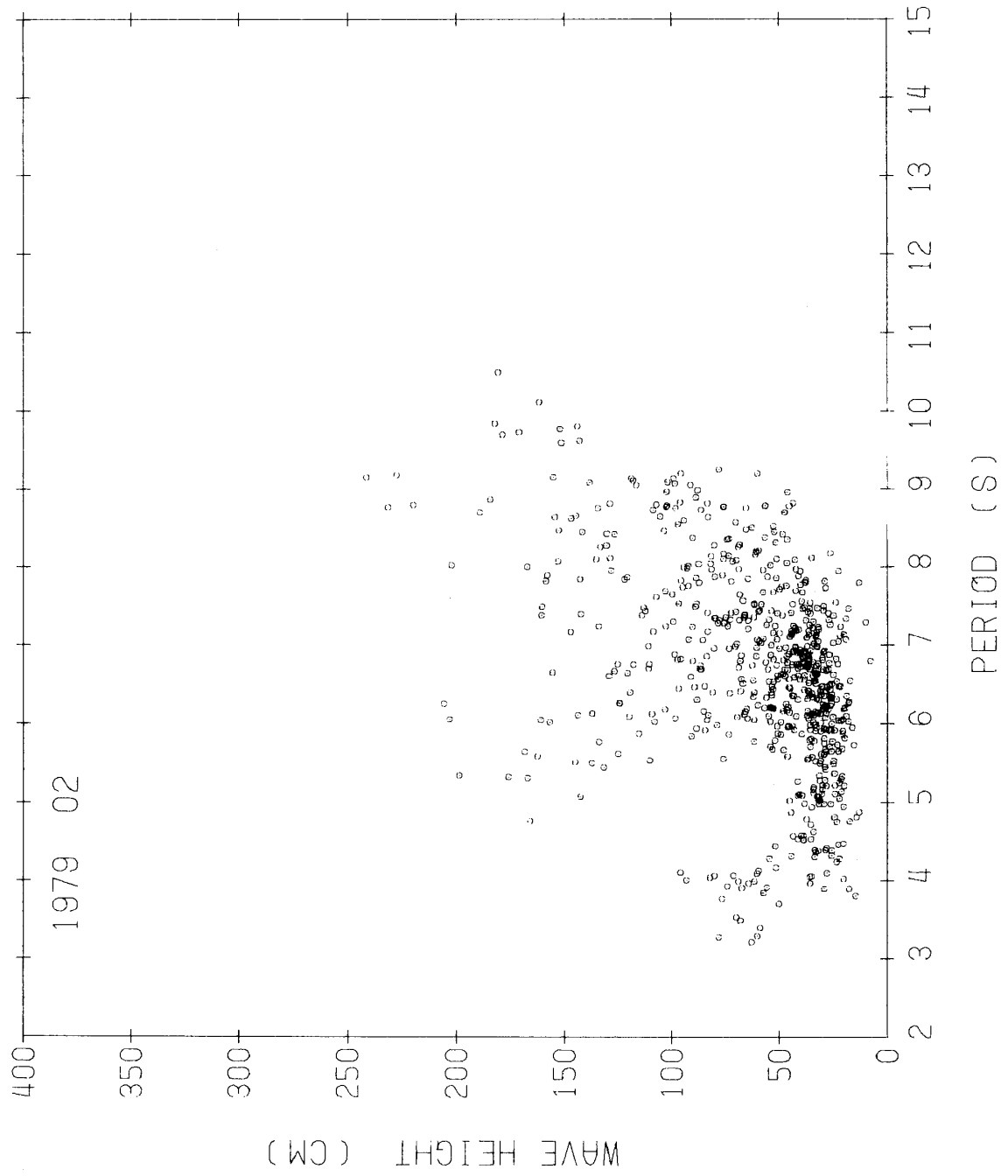
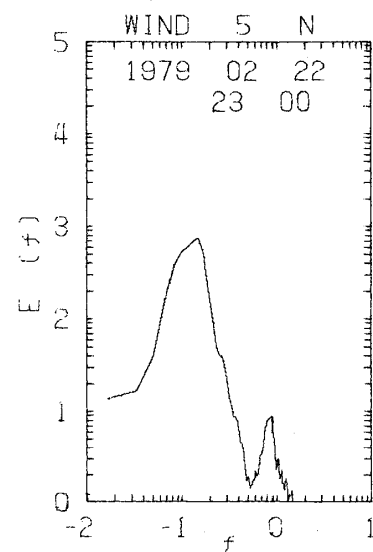
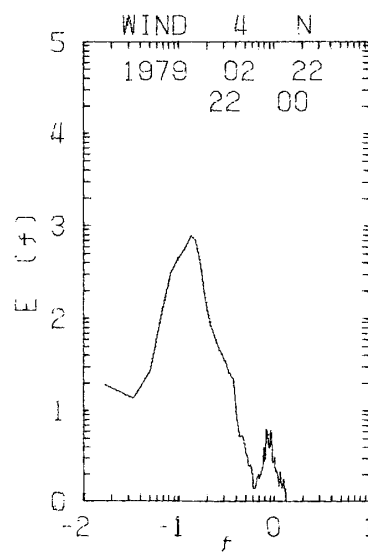
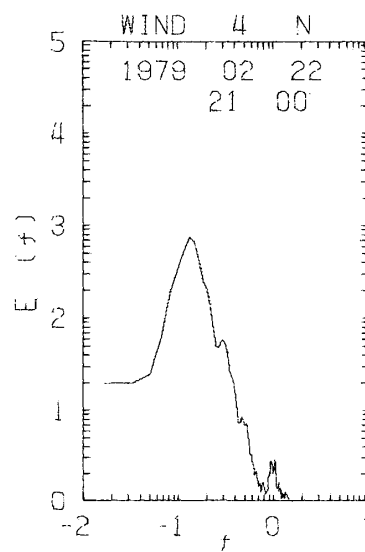
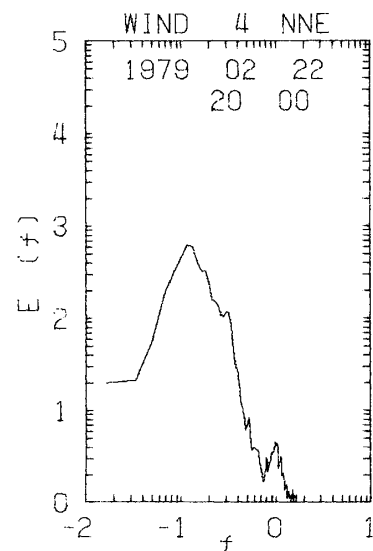
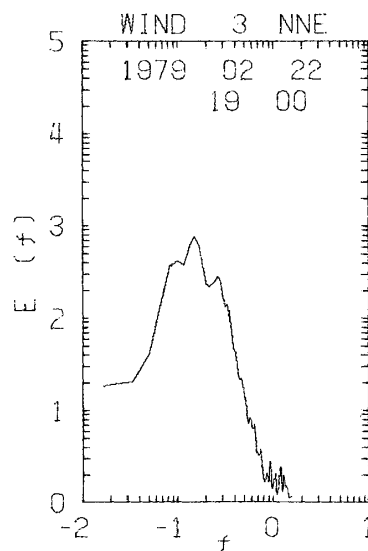
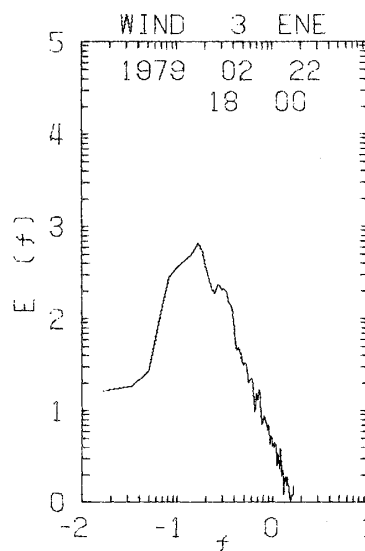
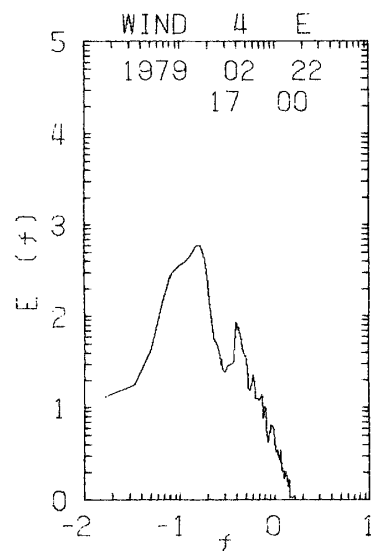
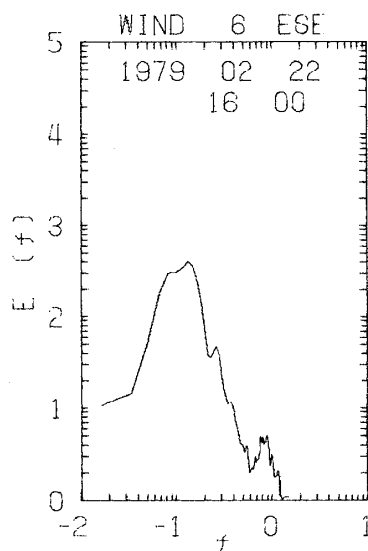
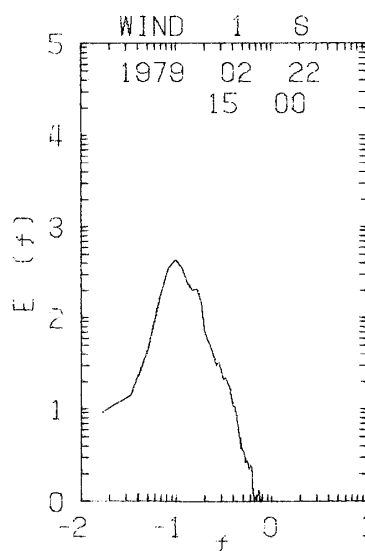
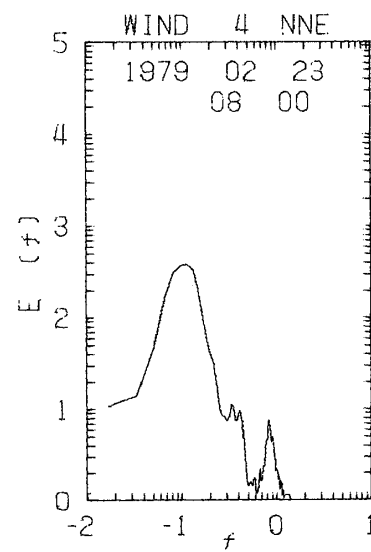
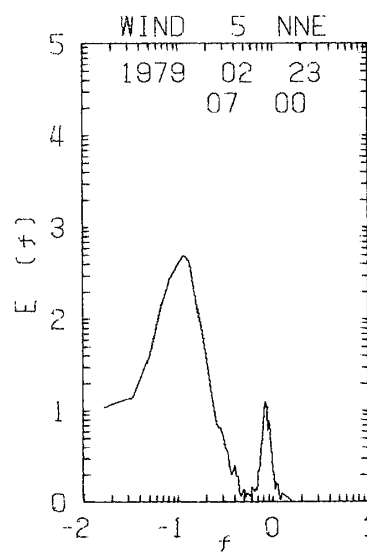
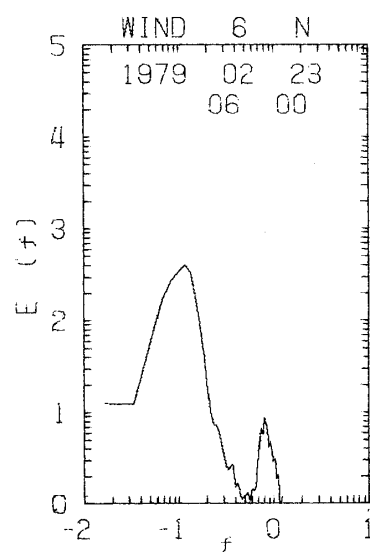
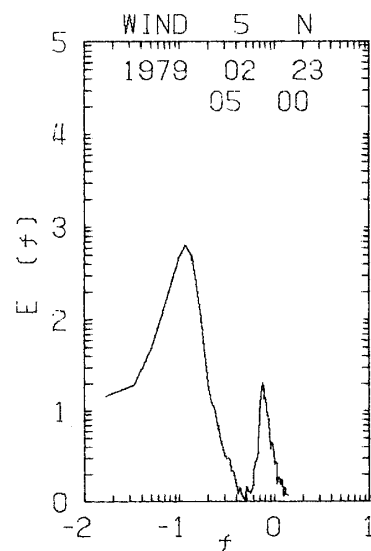
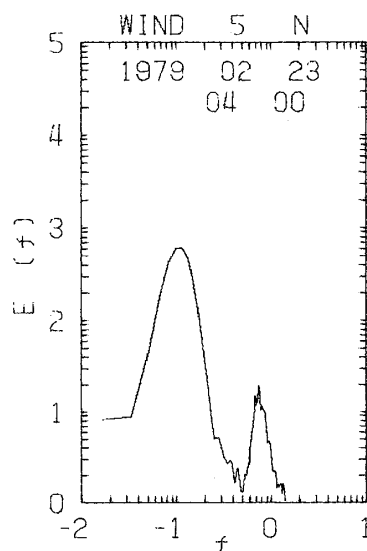
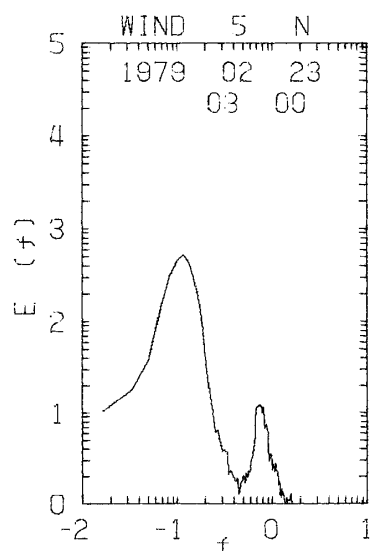
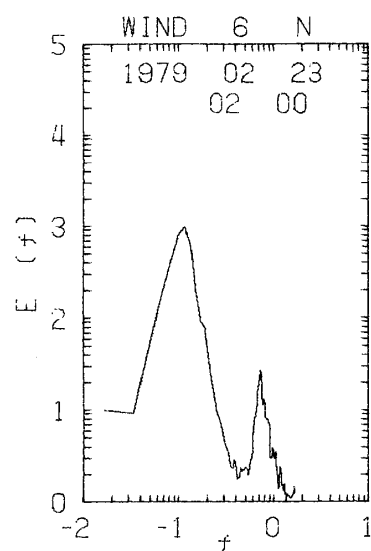
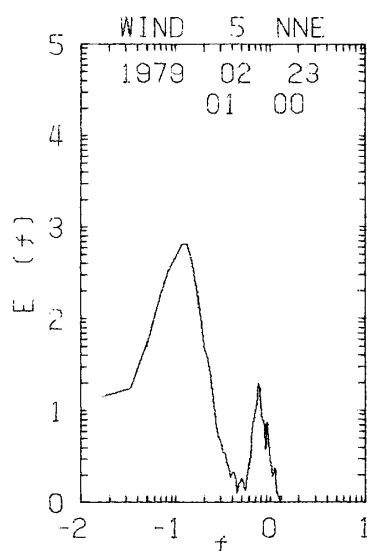
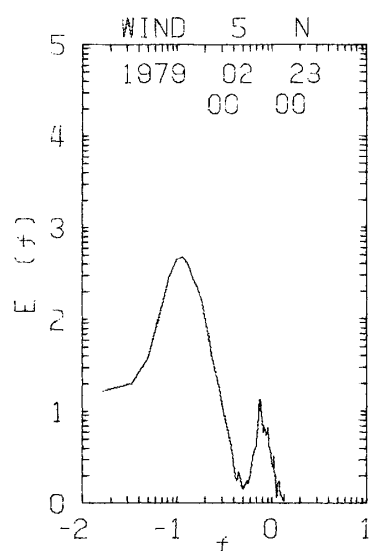
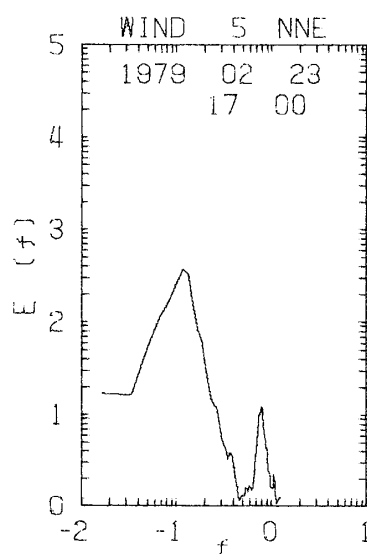
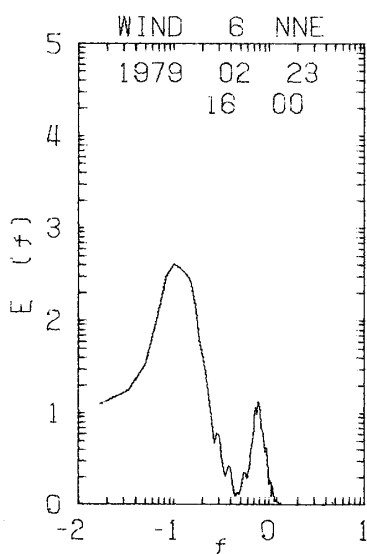
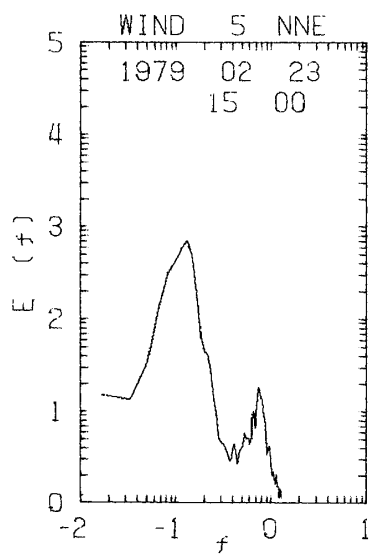
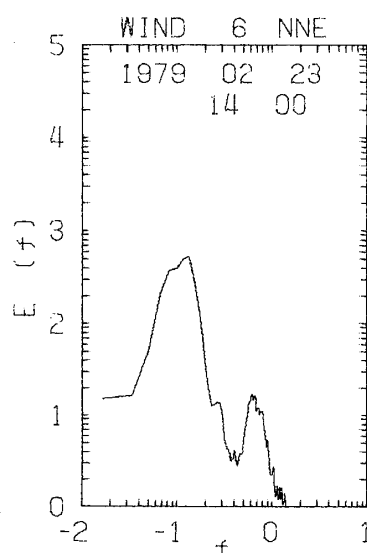
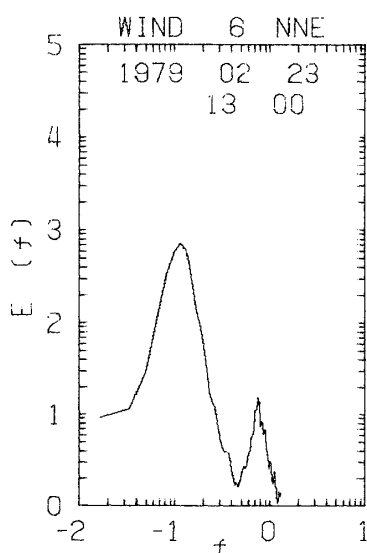
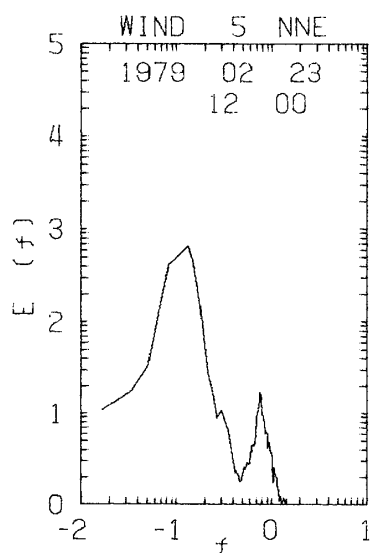
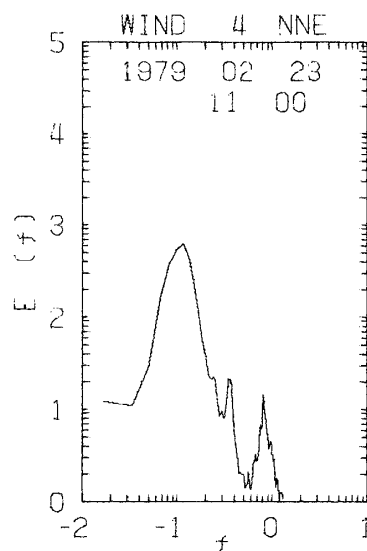
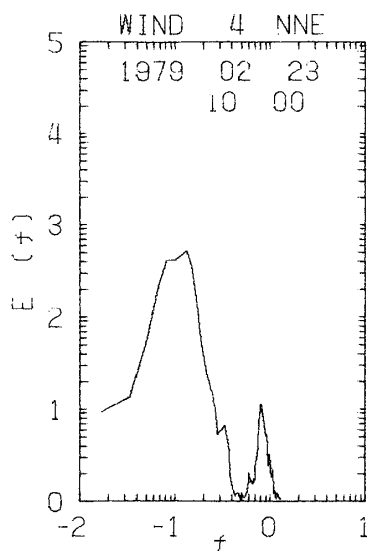
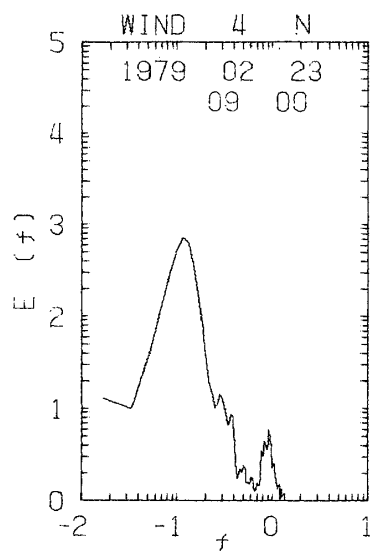
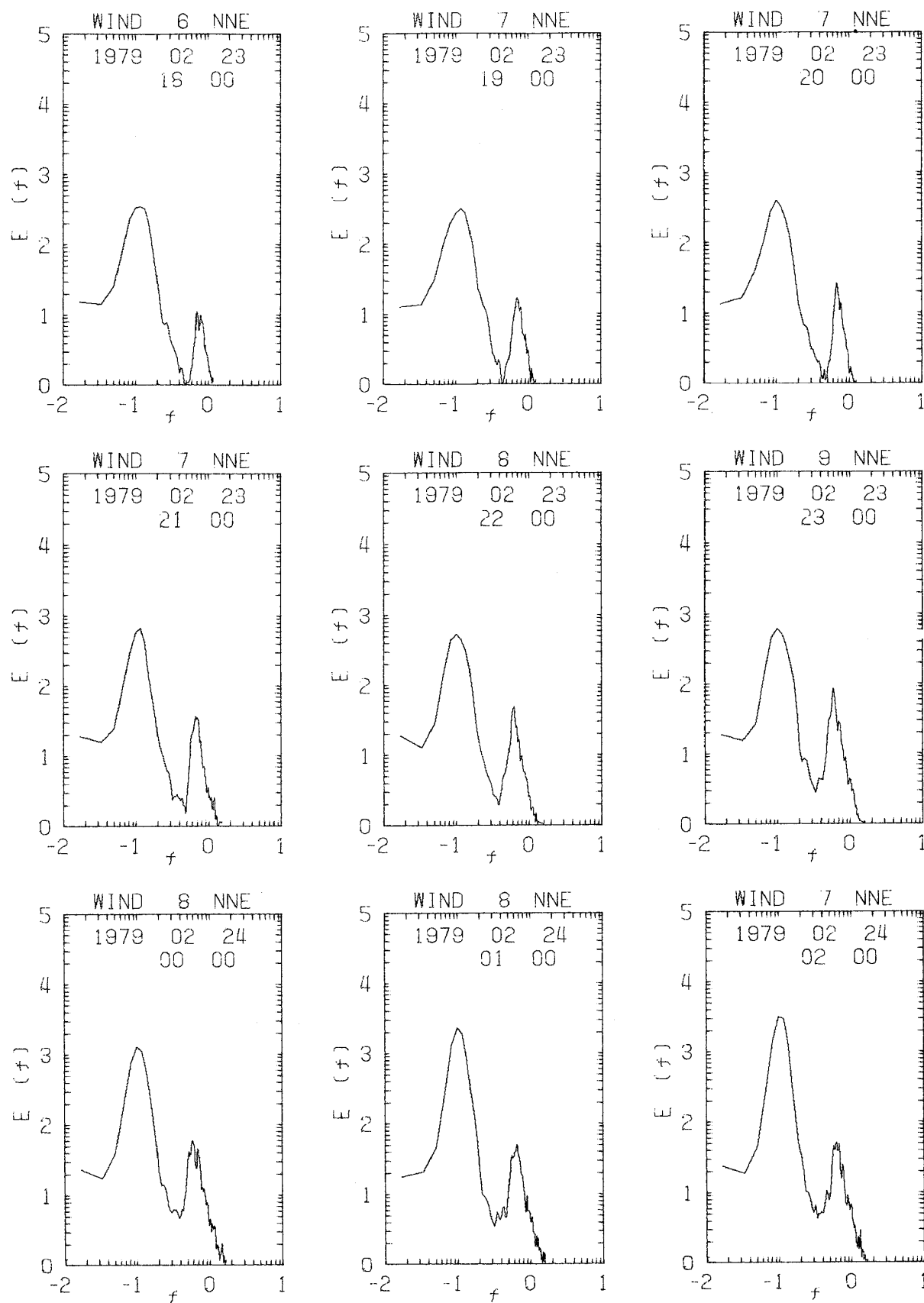


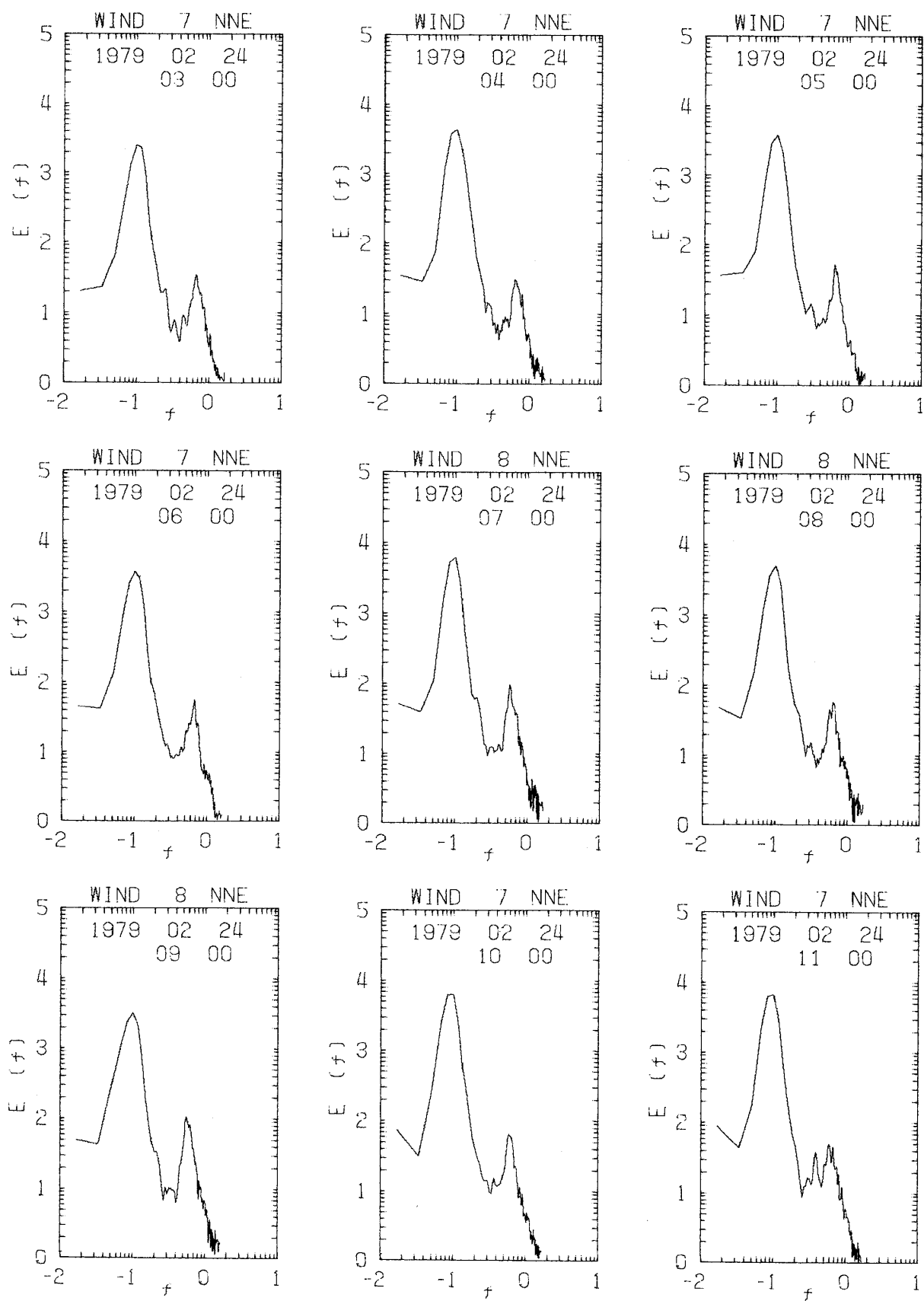
図4 1ヵ月間の有義波の波高と周期の頻度分布

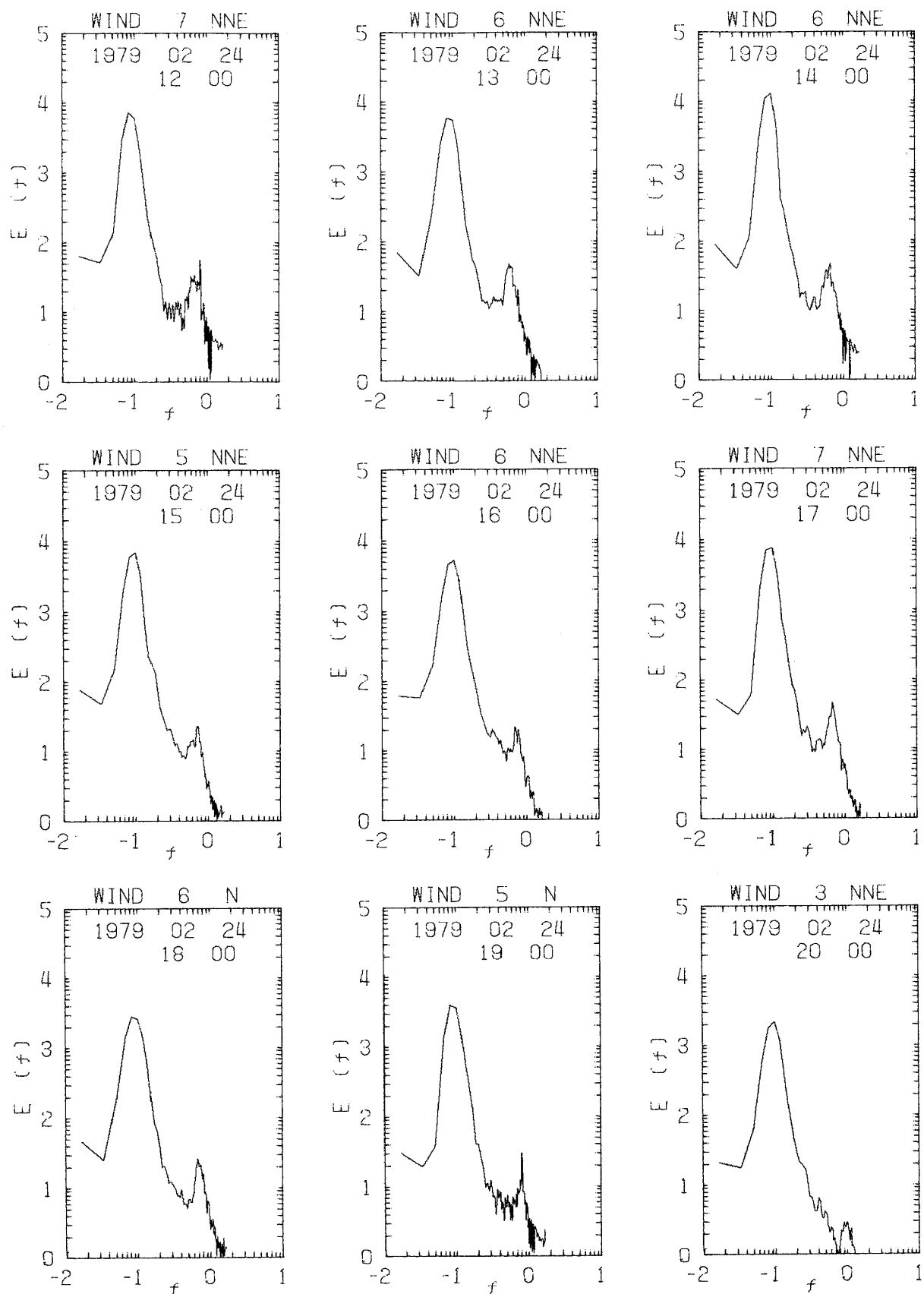


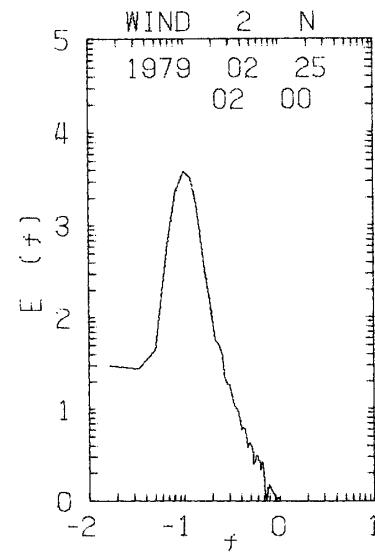
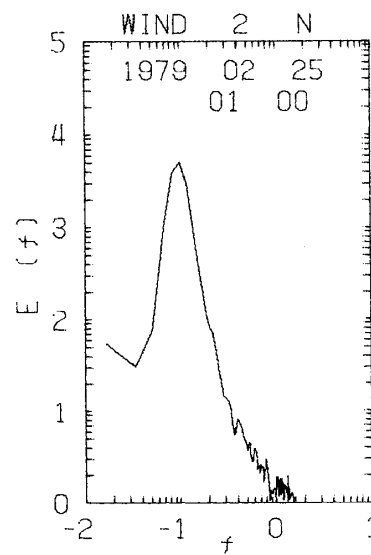
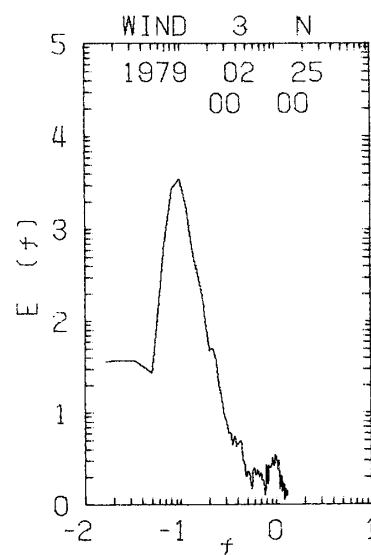
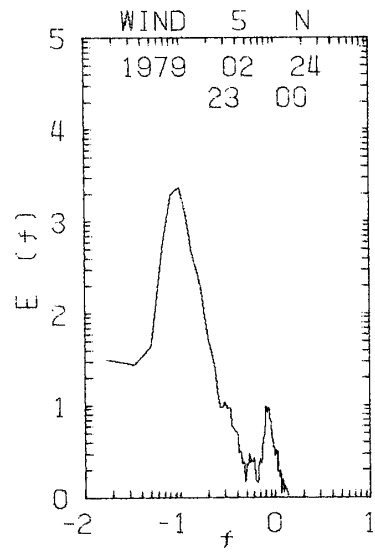
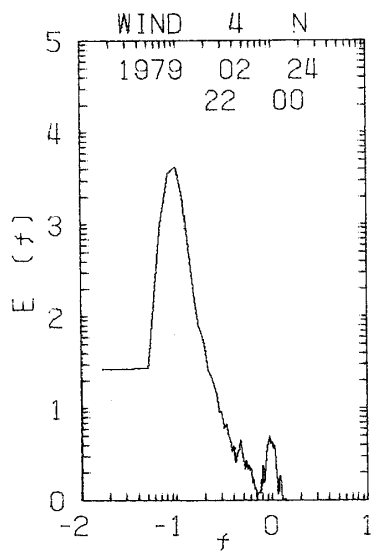
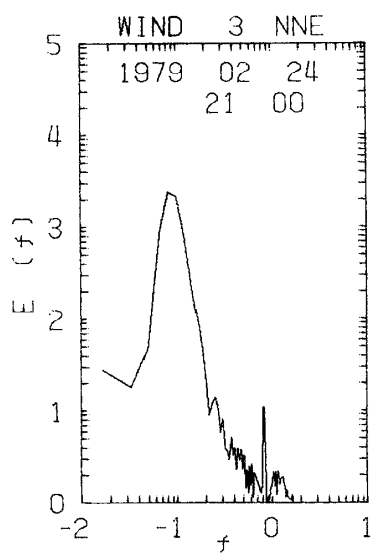












春 期

1979年 3 月 ～ 1979年 5 月

HOUR	WAVE NUMBER	19/9		03	01	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	101	50.3	8.3	74.7	9.6	32.2	4	N	1003
1	82	59.1	8.7	84.6	8.7	37.7	0	-	1003
2	85	68.5	7.6	95.2	6.3	59.3	0	-	1004
3	91	74.7	8.5	106.6	7.8	90.4	2	NNW	1004
4	93	65.2	8.8	101.8	9.3	125.1	3	N	1004
5	93	73.3	8.9	118.7	9.9	158.8	3	N	1004
6	94	78.3	9.1	120.1	9.3	176.8	4	N	1004
7	109	58.6	8.6	93.8	9.6	180.2	4	N	1005
8	94	69.7	8.8	94.5	7.8	163.9	2	NNE	1006
9	111	65.1	8.3	108.4	8.7	133.5	1	SE	1006
10	101	60.6	7.7	90.5	8.4	97.9	5	NE	1006
11	103	75.1	8.1	147.6	8.7	68.7	4	NE	1005
12	102	78.2	8.1	118.3	8.4	48.0	4	SSW	1005
13	95	78.6	8.5	119.8	7.8	48.3	1	E	1004
14	118	63.2	7.3	99.6	10.2	66.0	2	E	1004
15	97	72.6	8.1	97.8	7.5	93.3	1	NE	1004
16	104	70.8	7.6	116.5	7.8	125.5	6	NE	1004
17	131	67.8	7.7	120.1	6.3	155.1	5	NNE	1005
18	114	67.8	7.6	105.1	8.7	172.0	4	NNE	1005
19	117	67.0	7.5	89.7	6.9	172.4	3	NNE	1006
20	135	57.8	6.8	94.8	7.2	158.1	5	NE	1007
21	111	66.1	7.5	100.0	7.8	130.1	4	NE	1008
22	111	67.1	7.5	93.4	7.8	95.0	4	NE	1008
23	107	72.3	7.4	104.4	6.6	64.8	3	N	1008

HOUR	WAVE NUMBER	19/9		03	02	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	92	71.2	7.6	111.0	7.8	43.2	0	-	1008
1	97	62.0	7.6	103.6	7.2	41.9	2	N	1009
2	104	59.1	7.2	94.1	7.2	55.0	4	N	1009
3	112	54.4	7.2	79.8	7.2	79.1	4	N	1010
4	106	58.3	7.5	85.7	7.2	108.3	2	N	1010
5	105	44.6	7.6	69.2	8.7	138.9	2	N	1011
6	120	48.5	7.7	68.1	7.5	163.4	2	N	1011
7	133	46.8	7.1	78.0	6.3	171.5	3	N	1012
8	107	48.1	7.4	71.4	7.5	162.3	2	N	1012
9	105	42.2	7.3	75.4	6.6	139.8	1	E	1013
10							2	ESE	1013
11							5	SE	1013
12							4	SE	1012
13							6	S	1012
14	118	56.5	6.7	83.1	6.0	40.4	4	S	1012
15	119	53.4	6.5	77.6	6.3	59.6	4	S	1012
16	127	61.0	6.9	113.2	6.6	88.3	4	ENE	1012
17	134	46.4	6.4	76.2	6.6	119.5	4	NE	1013
18	158	43.0	6.2	97.4	8.1	141.4	3	NE	1013
19	133	46.7	6.9	74.7	7.2	153.3	5	NNE	1014
20	128	48.5	7.2	81.3	7.2	151.9	6	NNE	1015
21	136	48.5	7.2	87.9	7.5	135.2	5	N	1015
22	126	39.6	7.4	64.5	7.2	109.4	4	N	1016
23	145	35.3	6.7	55.7	6.9	79.3	4	N	1016

HOUR	WAVE NUMBER	1979		03	03	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	132	36.3	7.3	57.9	6.6	58.2	4	N	1016
1	120	34.3	7.5	48.7	9.0	48.5	4	N	1016
2	132	37.3	7.1	79.8	7.5	51.2	3	NNW	1017
3	134	36.2	6.7	61.9	6.6	68.9	4	N	1017
4	142	34.3	7.4	50.5	6.0	95.0	4	N	1017
5	147	34.2	6.8	59.7	7.2	122.3	4	N	1017
6	146	35.5	7.0	61.9	6.6	145.5	4	N	1017
7	148	31.3	6.9	44.7	9.3	160.5	4	N	1018
8	137	30.5	6.9	52.0	7.8	158.6	4	N	1018
9	161	30.7	6.2	51.3	6.9	141.8	3	N	1018
10	159	27.2	6.2	43.2	6.6	115.6	2	NNE	1019
11	128	30.5	7.2	52.4	8.7	85.0	1	S	1019
12	126	33.1	6.8	55.7	8.1	56.8	3	S	1018
13	144	31.8	6.2	47.2	6.0	36.3	4	S	1017
14	179	33.8	5.1	63.4	6.3	30.8	5	S	1016
15	182	37.5	4.9	68.1	5.4	41.2	6	S	1016
16	207	46.0	3.6	63.7	8.1	62.1	6	S	1016
17	211	49.0	3.4	76.5	4.2	88.9	6	S	1015
18	177	44.9	4.1	68.1	7.2	115.2	4	S	1016
19	182	40.8	4.3	68.5	8.1	131.2	5	S	1016
20	179	42.3	4.8	63.7	3.3	137.9	2	N	1016
21	181	35.8	4.5	61.5	6.6	133.8	3	NNW	1016
22	170	35.1	5.1	56.4	6.3	118.6	4	NNW	1016
23	136	30.8	6.1	44.7	6.3	99.8	3	NW	1016

HOUR	WAVE NUMBER	1979		03	04	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	124	28.8	6.4	39.2	6.0	80.0	0	-	1016
1	178	29.9	5.4	46.5	6.6	67.8	5	N	1016
2	207	25.7	4.5	47.6	7.2	66.6	6	N	1016
3	224	25.9	4.2	42.8	6.6	76.1	7	N	1016
4	200	25.8	5.3	46.5	9.3	91.9	6	N	1015
5	191	25.7	5.2	44.7	8.4	116.5	6	N	1015
6	232	23.9	3.8	46.1	7.8	136.8	7	NNE	1015
7	219	23.5	4.1	40.6	3.3	152.9	7	NNE	1015
8	242	27.0	3.5	42.5	7.2	154.5	7	NNE	1015
9	214	30.9	4.0	53.8	9.6	146.4	7	NNE	1016
10	252	29.0	3.5	54.2	8.1	128.3	8	NNE	1015
11	217	27.5	4.1	54.9	8.4	105.1	8	NNE	1015
12	214	25.1	3.9	55.7	9.3	76.3	7	NNE	1015
13	246	28.2	3.6	45.0	3.9	54.3	7	NNE	1014
14	222	33.0	3.9	52.7	5.7	41.1	7	NNE	1013
15	259	30.8	3.2	74.0	3.0	42.8	8	NNE	1012
16	247	30.3	3.6	54.9	2.4	54.2	8	NNE	1013
17	237	23.0	3.8	41.0	6.3	72.2	7	NNE	1013
18	221	22.0	4.4	37.0	7.8	93.5	5	NNE	1014
19	214	18.0	4.5	29.7	7.2	112.4	5	NNE	1014
20	207	19.1	4.7	34.8	7.5	126.7	5	NNE	1015
21	197	17.7	5.4	37.4	9.9	129.0	4	NNE	1015
22	202	18.9	4.5	33.3	7.2	123.4	5	NNE	1015
23	161	21.7	6.7	42.8	8.7	114.9	4	NNE	1015

平塚沖波浪観測資料(2) — 渡部・徳田

HOUR	WAVE NUMBER	1979		03		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	182	20.7	5.6	39.6	8.7	101.1	5	NNE	1016
1	146	21.0	7.5	41.0	9.0	91.9	4	NNE	1017
2	152	20.0	7.3	41.0	8.7	85.3	4	NNW	1017
3	132	25.0	8.3	42.1	9.9	85.8	4	N	1017
4	125	25.5	8.5	38.5	9.9	96.8	4	N	1018
5	130	26.5	7.8	44.3	9.6	111.2	4	N	1018
6	156	23.0	6.7	41.7	6.9	128.1	4	N	1018
7	171	20.8	6.5	38.5	8.4	142.7	4	NNE	1019
8	126	29.8	8.0	54.2	8.4	148.5	4	N	1020
9	125	32.3	8.6	51.3	8.1	145.1	2	NNE	1021
10	126	28.1	7.4	42.5	9.3	133.8	3	SE	1022
11	104	31.1	8.0	41.7	9.9	114.3	3	SE	1021
12	120	29.6	7.5	39.9	7.8	92.0	4	S	1021
13	148	32.9	6.8	65.9	11.7	68.1	5	SE	1021
14	186	31.6	5.0	51.3	5.7	54.2	5	SSE	1020
15	211	33.5	4.3	64.1	6.9	45.0	7	SSE	1020
16	211	39.7	3.7	64.5	6.0	46.4	8	S	1020
17	191	58.4	3.8	77.6	3.3	53.5	10	S	1020
18	187	71.8	3.9	107.3	3.3	68.7	4	W	1020
19	174	72.3	4.0	109.9	3.9	85.1	5	W	1020
20	182	74.7	4.0	105.1	3.6	100.2	8	SW	1021
21	163	76.9	4.9	117.2	8.7	108.3	3	W	1021
22	185	57.7	4.4	82.8	3.9	114.9	4	WSW	1021
23	157	55.4	5.2	82.4	3.9	112.6	4	WNW	1020

HOUR	WAVE NUMBER	1979		03		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	144	59.2	6.8	96.3	14.1	107.6	4	W	1020
1	145	61.6	6.3	107.3	9.3	102.7	3	WNW	1020
2	130	63.7	7.4	110.2	10.2	96.3	4	NW	1020
3	125	49.4	8.0	91.9	11.4	98.2	4	NNE	1019
4	121	54.4	8.1	83.9	8.4	103.0	5	N	1019
5	117	54.1	7.5	85.0	10.2	109.4	4	NNE	1019
6	94	68.9	10.0	90.8	9.9	119.7	4	N	1019
7	92	67.3	9.6	104.4	11.1	131.5	4	N	1019
8	110	55.8	9.1	88.3	12.0	139.3	4	N	1019
9	86	68.7	10.6	93.0	12.6	139.7	4	N	1019
10	89	73.2	9.5	169.2	10.2	134.3	2	N	1018
11	87	79.2	9.9	116.1	12.0	125.7	0	-	1018
12	106	48.0	8.1	76.9	11.4	109.7	1	SE	1017
13	118	42.8	7.7	70.7	10.5	93.8	4	S	1015
14	108	49.3	8.3	85.3	8.1	75.6	5	SSW	1014
15	147	63.8	6.4	101.4	12.6	64.3	8	SW	1013
16	154	84.2	5.3	151.6	11.4	56.6	8	SW	1013
17	154	87.8	5.0	133.3	4.2	57.3	7	SW	1013
18	141	94.3	5.3	153.4	3.6	61.6	3	W	1013
19	132	74.2	5.7	137.3	10.5	70.6	2	WNW	1013
20	139	69.5	6.1	105.1	9.3	83.4	3	NW	1013
21	120	63.0	6.6	104.7	4.5	92.9	3	NW	1013
22	147	48.2	5.5	72.1	5.4	105.3	4	NNE	1013
23	107	61.9	8.6	105.1	9.0	110.4	4	N	1013

HOUR	WAVE NUMBER	19/9		03 07		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	117	38.0	8.8	56.0	10.2	113.3	4	NNE	1014
1	103	49.3	9.8	78.4	9.9	111.9	3	NNE	1014
2	125	42.2	8.8	86.4	12.6	111.7	4	N	1014
3	118	40.4	8.9	82.4	9.6	111.0	4	N	1014
4	98	43.3	10.4	67.4	12.9	109.4	1	N	1014
5	102	37.3	10.0	60.1	11.4	111.5	3	N	1015
6	108	42.2	10.6	65.2	11.1	114.2	4	NNW	1016
7	114	39.7	9.6	65.2	12.9	119.3	4	NNW	1016
8	137	34.5	7.3	59.0	11.1	123.5	4	NNE	1017
9	152	32.8	6.8	60.4	9.3	127.1	5	NNE	1018
10	133	37.3	7.5	66.3	10.8	126.7	4	NE	1019
11	98	47.0	9.5	69.9	11.7	120.9	3	SE	1019
12	108	42.4	8.5	69.6	11.7	114.2	5	SSE	1019
13	122	53.0	8.5	106.9	12.0	101.8	5	SE	1018
14	164	42.5	6.0	104.7	12.3	88.9	7	S	1017
15							7	S	1017
16	180	50.3	4.8	91.9	8.4	59.5	8	S	1017
17	162	63.5	5.2	104.7	12.3	52.7	9	S	1018
18	168	68.5	4.5	117.9	9.9	46.2	10	S	1017
19	171	80.9	4.4	146.5	3.6	47.1	11	S	1018
20	166	80.7	4.4	114.6	3.3	53.6	10	SSW	1018
21	156	73.1	4.6	112.1	4.8	64.3	8	SW	1019
22	153	65.7	5.6	100.0	8.4	77.0	7	SSW	1019
23	128	67.0	7.6	97.4	8.7	89.9	4	NNW	1019

HOUR	WAVE NUMBER	19/9		03 08		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	142	56.0	7.2	93.4	8.4	99.8	8	N	1019
1	141	50.6	8.0	79.1	9.0	109.0	7	N	1019
2	145	45.7	7.5	82.8	8.4	112.2	7	N	1020
3	117	53.3	9.5	79.5	12.6	112.6	7	N	1020
4	121	50.1	8.7	84.2	9.6	112.0	6	N	1020
5	136	47.6	7.8	78.0	8.1	109.4	6	N	1020
6	125	47.9	8.3	75.1	9.6	104.8	6	N	1020
7	118	46.6	8.9	74.3	9.6	106.2	5	N	1020
8	119	55.9	8.5	104.7	8.4	106.2	5	N	1020
9	121	48.9	8.2	80.6	8.7	110.3	5	N	1019
10	131	41.9	8.1	90.5	7.5	112.2	5	N	1019
11	126	40.0	8.3	63.7	7.8	116.5	3	NNE	1019
12	116	39.9	8.6	73.6	7.8	116.6	3	NNE	1018
13	124	37.4	8.0	62.6	7.5	112.2	4	N	1017
14	102	42.8	8.8	58.6	9.3	104.8	2	N	1015
15	104	41.6	7.9	69.9	9.3	92.2	3	S	1015
16	144	34.9	7.1	61.2	8.1	79.8	4	SSW	1014
17	184	31.0	5.1	65.2	9.3	64.3	6	SSW	1014
18	182	28.2	4.8	53.8	8.7	50.8	5	SW	1014
19	193	23.0	4.5	40.6	8.1	43.2	3	W	1014
20	180	18.3	5.2	30.0	6.6	40.9	3	NNW	1014
21	138	21.3	6.9	39.2	8.7	46.0	2	NNW	1014
22	136	24.6	7.2	41.7	9.9	60.2	2	NNW	1014
23	126	28.3	7.5	43.9	6.9	76.6	3	N	1014

HOUR	WAVE NUMBER	1979		03		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	116	29.2	7.9	43.6	7.2	93.3	3	N	1014
1	111	30.4	8.0	45.8	8.4	108.5	1	N	1014
2	129	30.2	7.7	56.0	8.7	119.1	3	NNW	1014
3	123	31.0	7.5	45.0	6.9	124.4	2	N	1014
4	113	31.4	7.8	49.1	7.2	123.7	3	N	1014
5	129	32.9	7.7	48.7	9.6	117.4	4	N	1015
6	125	29.0	7.8	43.2	8.1	111.7	3	NNW	1016
7	110	33.7	8.1	53.5	7.2	104.6	2	N	1016
8	120	33.2	7.9	53.1	8.4	99.3	2	N	1017
9	116	34.9	7.3	53.1	6.9	98.8	2	N	1017
10	112	30.0	7.5	43.2	7.2	102.3	0	-	1017
11	108	33.7	7.5	48.0	6.6	109.0	1	SE	1017
12	125	32.4	7.7	45.8	7.8	117.0	3	S	1016
13	163	30.3	5.4	48.7	6.3	118.2	4	S	1016
14	155	33.4	6.3	50.9	6.6	119.1	5	S	1015
15	208	31.1	4.2	49.1	5.1	114.0	6	S	1015
16	217	35.2	3.5	53.1	6.0	102.5	7	S	1015
17	208	47.3	3.4	74.7	2.4	82.7	8	S	1015
18	202	42.2	3.7	64.8	3.6	62.5	9	S	1015
19	203	45.4	3.5	78.0	3.3	44.8	7	S	1015
20	205	35.5	3.5	68.5	3.0	32.9	3	WSW	1016
21	185	34.1	4.0	55.3	3.0	31.9	2	WSW	1016
22	188	25.0	3.9	49.1	5.1	41.6	2	WSW	1016
23	182	27.7	4.5	48.3	6.6	57.7	2	WSW	1015

HOUR	WAVE NUMBER	1979		03		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	149	28.9	6.7	43.9	7.8	79.8	2	W	1015
1	132	36.3	6.5	49.4	6.9	100.5	2	W	1014
2	144	36.8	5.6	61.5	8.7	118.9	3	N	1014
3	160	38.9	6.1	63.4	7.2	130.3	5	N	1013
4	157	31.4	6.7	49.8	7.8	134.9	5	N	1013
5	155	34.1	6.7	58.6	9.6	127.8	5	N	1013
6	139	27.1	7.6	45.0	8.7	118.1	4	N	1013
7	116	36.9	8.5	56.0	7.8	105.7	4	N	1013
8	111	31.6	8.3	46.5	7.8	95.4	4	N	1012
9	112	38.8	7.3	67.4	7.5	89.0	3	N	1012
10	106	33.0	7.8	46.9	7.2	91.3	2	S	1011
11	133	35.5	7.2	58.2	6.6	100.5	4	S	1010
12	193	41.4	4.4	79.5	7.2	113.8	9	S	1009
13	207	51.5	3.7	83.9	5.7	126.4	11	SW	1007
14	189	73.9	3.8	118.3	3.9	135.1	11	SW	1005
15	170	97.3	4.0	182.0	3.6	136.8	12	SW	1004
16	157	109.0	4.6	157.8	3.9	129.4	12	SW	1003
17	172	98.8	4.4	149.0	3.3	113.3	13	SW	1003
18	174	85.5	4.5	141.4	4.5	90.1	10	SW	1002
19	160	96.3	4.6	168.1	4.5	66.4	9	SSW	1001
20	151	85.9	5.0	136.2	5.1	48.9	9	SSW	1001
21	140	78.9	6.0	123.0	6.0	37.5	7	SSW	1001
22	119	75.5	6.7	131.1	6.6	41.6	0	-	1000
23	113	72.6	7.1	144.7	6.9	56.1	4	N	999

		1979		03	11				
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	111	75.0	7.3	120.1	7.2	78.4	5	N	998
1	109	73.7	7.2	118.3	6.9	106.6	4	NNE	997
2	123	88.9	7.0	184.6	6.9	132.2	6	NE	997
3	107	86.1	7.0	139.5	7.2	148.1	6	NE	996
4	128	65.3	6.8	83.9	7.2	159.3	4	NNE	997
5	120	77.8	7.4	125.2	6.6	156.3	7	NE	997
6	144	67.3	7.1	99.6	7.5	144.4	7	NNE	998
7	133	69.5	7.3	104.4	7.8	128.7	7	NNE	998
8	130	62.0	7.4	115.7	7.5	110.3	7	NNE	1000
9	148	53.9	6.9	80.6	8.4	98.1	7	NNE	1001
10	122	74.8	7.9	101.4	7.2	94.2	7	NNE	1002
11	114	67.1	7.9	94.8	6.6	100.2	7	NNE	1002
12	109	75.6	8.4	100.7	9.0	114.7	6	NNE	1003
13	118	76.9	7.7	127.1	6.9	127.3	6	NNE	1003
14	123	84.1	7.6	156.4	8.1	146.6	7	NNE	1003
15	135	65.7	7.2	121.6	8.1	155.4	8	NNE	1004
16	120	59.3	8.0	97.4	7.5	154.5	7	NNE	1005
17	136	50.6	7.4	82.0	7.2	141.2	7	NNE	1006
18	161	47.3	6.8	94.8	7.2	116.3	6	NNE	1007
19	145	44.2	6.7	68.1	8.1	86.0	6	NNE	1008
20	151	37.7	7.0	67.4	8.4	57.7	6	NNE	1009
21	148	33.2	7.0	54.9	8.1	35.9	6	N	1010
22	119	45.1	8.3	80.9	9.0	29.4	5	N	1011
23	118	37.5	8.0	78.0	8.7	37.9	4	NNE	1012

		1979		03	12				
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	124	35.3	8.0	66.7	8.4	56.6	4	NNE	1012
1	141	39.9	7.1	59.0	7.5	85.8	4	NNE	1013
2	147	45.5	6.7	81.7	7.8	113.1	3	NNE	1013
3	136	48.5	7.1	81.7	8.4	134.5	3	NNE	1014
4	140	45.8	7.0	68.5	7.2	148.9	3	NNE	1014
5	137	43.7	7.4	67.4	7.2	149.2	4	NNE	1014
6	134	37.0	6.7	54.2	7.2	136.6	3	N	1015
7	135	37.5	7.0	56.4	8.7	118.8	4	NNE	1016
8	127	38.3	7.3	56.8	8.1	95.4	3	NNE	1017
9	113	35.3	7.6	54.6	10.5	75.2	3	NE	1018
10							2	NNE	1018
11	128	47.1	7.5	82.0	6.9	67.4	3	NNE	1018
12	119	48.9	8.0	69.9	7.2	80.7	3	NE	1017
13	110	45.2	7.7	66.7	6.6	101.4	3	NE	1017
14	108	61.5	7.8	95.6	8.1	123.2	3	NNE	1016
15	125	55.5	7.1	112.8	6.6	140.9	3	ENE	1015
16	120	60.8	7.2	83.5	10.2	150.3	3	NE	1015
17	122	61.9	7.2	96.3	7.2	143.4	2	NE	1016
18	112	66.2	7.2	112.1	7.2	124.3	2	ENE	1017
19	100	64.3	7.5	97.8	6.9	92.9	0	-	1017
20	105	58.2	7.7	74.3	6.9	62.5	3	NNW	1018
21	118	51.1	7.4	74.3	6.3	35.8	4	N	1018
22	128	49.1	7.4	83.5	8.4	18.9	3	NNE	1018
23	119	45.9	7.5	70.7	7.8	20.0	4	NNE	1018

HOUR	WAVE NUMBER	1979		03		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	119	41.8	7.3	55.3	8.7	34.9	4	NNE	1017
1	143	37.3	7.0	70.3	6.9	66.6	4	N	1017
2	117	39.4	7.3	69.6	7.8	98.4	4	N	1017
3	148	34.4	6.6	66.3	7.5	123.4	4	N	1016
4	134	34.1	7.3	61.9	7.2	145.5	3	N	1016
5	139	36.7	6.6	64.8	8.4	150.8	4	N	1016
6	134	36.8	6.8	62.6	7.2	144.3	4	N	1016
7	148	35.7	6.5	53.8	7.5	125.5	4	N	1016
8	139	32.4	6.6	50.9	6.9	99.1	4	NNE	1016
9	154	32.7	6.5	52.0	8.4	74.3	5	NNE	1016
10	165	33.7	6.2	67.7	7.8	57.7	6	NNE	1016
11	164	34.4	6.5	61.2	6.6	55.6	5	N	1015
12	158	34.5	6.7	53.8	7.2	66.0	5	NNE	1015
13	138	43.0	7.3	77.3	6.9	88.1	5	NNE	1014
14	123	46.6	7.2	68.8	6.6	112.2	5	NNE	1013
15	146	46.6	6.6	73.6	7.2	137.5	5	NNE	1013
16	152	40.5	6.6	61.2	8.4	153.6	4	NNE	1013
17	151	42.1	7.0	73.2	7.2	155.2	4	N	1014
18	136	40.6	6.8	67.4	8.7	142.7	3	N	1014
19	138	35.0	7.2	55.3	8.1	117.2	2	N	1016
20	108	47.5	7.6	80.9	7.2	82.1	1	N	1017
21	132	32.9	7.3	59.0	7.5	52.2	3	N	1018
22	122	35.8	7.0	67.4	8.7	27.6	2	N	1019
23	120	38.0	6.9	63.7	8.1	19.5	3	N	1019

HOUR	WAVE NUMBER	1979		03		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	147	30.8	6.6	51.3	5.4	29.7	4	NNE	1019
1	150	31.5	6.8	53.1	6.9	53.5	4	N	1018
2	122	33.5	7.6	48.3	8.7	83.2	4	N	1018
3	135	27.4	7.1	43.2	7.5	115.4	0	-	1018
4	117	36.1	7.5	52.4	6.9	139.7	3	N	1018
5	123	36.1	7.1	56.8	6.6	152.9	3	NNE	1018
6	116	37.7	7.1	66.3	7.5	148.9	4	NNW	1018
7	128	33.0	6.8	47.2	7.5	133.1	4	N	1019
8	139	34.1	6.6	54.6	7.2	104.8	3	N	1020
9	134	35.7	6.5	52.0	6.6	77.7	3	NE	1020
10	145	31.9	6.2	51.3	6.0	56.5	5	SSE	1019
11	160	29.2	5.9	53.5	7.8	42.7	4	SE	1019
12	161	27.5	5.9	43.6	6.6	50.8	4	SSE	1018
13	214	30.6	4.4	47.2	7.5	65.0	6	S	1018
14	198	38.5	4.2	57.9	2.7	91.7	7	S	1016
15	180	57.8	4.2	86.1	6.0	123.0	9	SSW	1016
16	181	69.3	3.8	108.4	7.2	146.9	9	S	1015
17	179	75.1	3.9	114.3	3.3	157.0	8	SSW	1014
18	176	75.0	4.0	107.3	4.2	154.0	4	W	1014
19	171	59.2	5.0	99.6	3.6	136.3	5	WNW	1014
20	153	45.2	5.5	66.7	6.6	107.8	3	WNW	1013
21	131	47.8	6.3	71.4	6.9	72.2	0	-	1013
22	131	42.8	6.0	85.0	7.5	44.1	0	-	1012
23	132	43.0	6.3	64.5	6.0	30.6	3	N	1011

		1979		03	15				
HOUR	WAVE NUMBER	H	I	H	T	TIDE	WIND		PRES
		(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	132	48.5	6.5	71.4	6.9	31.9	3	NNW	1010
1	139	52.6	5.8	76.2	4.8	49.6	3	NNW	1009
2	155	44.5	6.0	80.9	6.0	80.7	4	N	1008
3	142	55.4	6.8	84.2	6.3	114.3	4	N	1008
4	138	45.7	6.6	81.5	8.1	145.7	5	NNE	1007
5	136	43.8	6.9	71.4	6.6	163.9	4	N	1007
6	145	47.0	6.8	83.5	6.9	166.7	3	NNE	1006
7	149	48.9	7.1	90.1	7.8	156.1	6	NNE	1007
8	184	39.3	5.2	82.4	7.2	131.7	6	NNE	1007
9	155	43.4	6.5	84.2	7.8	100.0	6	NE	1008
10	162	42.9	6.5	86.1	8.1	73.8	6	NE	1008
11	163	43.7	6.2	74.7	7.8	54.9	6	NE	1007
12	149	45.0	7.3	71.4	7.2	52.9	5	NNE	1006
13	120	46.0	7.3	68.1	7.2	63.4	3	ENE	1006
14	147	50.5	6.7	73.2	6.9	87.1	4	SE	1005
15	131	53.7	7.0	77.6	7.5	118.2	5	S	1005
16	135	53.4	6.9	85.0	7.5	149.9	4	SSW	1006
17	126	61.3	7.0	96.7	7.5	168.3	3	SSW	1006
18	151	48.7	6.2	82.4	7.5	172.6	0	-	1007
19	130	49.2	7.0	71.4	8.7	160.7	2	NE	1008
20	139	55.5	7.0	96.7	7.2	135.2	5	NE	1009
21	120	52.9	7.4	89.7	8.4	104.4	4	NNE	1010
22	125	49.4	7.3	83.9	6.9	74.9	2	N	1011
23	117	56.2	7.5	82.8	8.4	49.7	3	NW	1011

		1979		03	16				
HOUR	WAVE NUMBER	H	I	H	T	TIDE	WIND		PRES
		(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	101	50.5	8.1	74.7	7.2	39.3	4	N	1012
1	109	47.2	7.6	70.3	7.8	51.9	4	NNE	1013
2	124	48.8	8.0	115.7	7.5	74.2	5	NNE	1013
3	128	39.0	8.0	73.6	9.0	104.1	3	N	1013
4	120	39.9	7.7	64.5	8.1	134.5	4	N	1014
5	137	38.0	7.4	65.2	7.8	156.1	4	N	1015
6	115	44.5	7.8	63.7	7.5	164.8	4	N	1015
7	122	41.1	7.8	67.4	7.2	157.0	4	N	1016
8	180	29.2	5.9	57.9	8.7	134.3	5	NNW	1017
9	197	33.1	5.1	69.9	6.9	102.3	5	N	1017
10	199	27.3	5.0	59.7	8.4	71.5	6	NNE	1018
11	157	33.9	6.6	54.2	8.4	44.4	6	NNE	1018
12	145	33.5	7.0	53.5	6.9	34.2	5	NE	1017
13	128	33.8	7.0	47.2	7.2	43.4	3	NE	1017
14	144	30.1	6.4	51.3	6.9	59.8	4	SE	1017
15	138	38.3	6.7	54.6	8.1	84.8	3	SSE	1018
16	196	42.8	4.2	84.6	5.4	120.5	7	ESE	1018
17	197	48.4	4.0	80.9	3.3	145.7	6	SE	1019
18	207	37.8	3.9	59.0	7.2	153.8	5	SE	1019
19	168	51.8	5.1	75.1	2.7	152.2	5	ESE	1019
20	171	48.2	4.9	68.8	8.1	139.1	5	E	1019
21	171	42.8	4.8	64.8	3.6	111.3	3	E	1020
22	173	36.6	5.3	51.6	8.7	81.2	4	N	1020
23	178	29.4	5.2	45.0	7.2	55.2	3	N	1019

HOUR	WAVE NUMBER	19/9		03		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	179	29.7	5.4	47.6	8.1	40.4	2	N	1019
1	169	35.2	5.3	61.2	7.2	41.6	3	N	1019
2	178	32.4	4.7	53.5	6.9	61.1	3	N	1019
3	165	40.1	5.6	60.8	6.9	85.3	2	N	1019
4	160	42.3	5.5	65.6	7.8	114.0	0	-	1018
5	156	44.8	5.2	61.2	5.4	143.7	2	N	1018
6	163	45.3	5.5	62.6	9.0	155.2	4	N	1018
7	147	43.6	6.3	95.6	7.5	154.3	4	N	1018
8	121	51.9	7.0	84.6	8.7	140.9	4	N	1017
9	126	54.6	6.0	85.0	7.2	111.2	0	-	1017
10	180	60.6	5.1	108.0	6.6	78.9	10	SSW	1016
11	158	87.2	4.8	158.2	7.5	51.2	10	SSW	1015
12	162	96.4	4.4	147.9	5.1	31.3	10	SSW	1014
13	169	90.0	4.1	143.9	3.6	28.5	10	SW	1012
14	165	110.5	4.2	178.7	3.9	43.2	12	WSW	1010
15	174	83.4	4.5	127.8	5.1	70.4	6	WSW	1010
16	159	73.4	4.9	116.5	6.9	100.4	5	SW	1010
17	173	82.8	4.3	134.4	4.8	130.3	10	SW	1010
18	178	82.1	4.2	124.1	3.6	148.7	8	SW	1010
19	183	83.7	4.0	121.6	6.9	158.2	9	WSW	1009
20	164	75.8	4.8	124.9	3.6	151.7	4	SW	1009
21	160	62.8	5.5	94.1	9.3	132.2	2	NW	1008
22	140	57.0	6.2	97.0	7.2	108.0	0	-	1007
23	137	49.7	6.5	79.8	7.2	82.5	3	N	1006

HOUR	WAVE NUMBER	19/9		03		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	119	55.5	7.7	87.9	9.0	65.0	0	-	1006
1	111	49.3	7.7	82.0	7.5	59.6	1	N	1006
2	110	58.1	7.8	96.7	7.8	74.2	2	NNW	1006
3	115	49.4	7.7	79.5	7.5	90.1	3	N	1007
4	100	52.2	8.2	65.9	8.4	116.3	3	NNW	1007
5	100	46.8	7.8	69.9	8.4	143.7	3	N	1009
6	110	61.4	8.0	90.5	7.8	162.8	3	N	1009
7	114	61.8	7.6	86.8	7.8	164.4	4	N	1011
8	94	79.1	7.6	156.7	7.2	150.8	3	N	1012
9	105	74.4	7.7	122.7	8.1	128.9	3	N	1013
10	91	88.1	7.4	113.2	7.5	98.4	1	E	1013
11	97	88.1	7.3	137.3	7.2	65.7	2	SE	1014
12	105	71.3	6.9	144.7	7.8	41.2	3	S	1014
13	106	82.1	7.0	130.0	6.3	28.1	4	S	1014
14	102	76.6	7.4	133.7	6.0	31.2	3	S	1015
15	113	75.2	7.3	107.3	7.8	48.5	4	SW	1015
16	121	80.3	7.7	144.7	7.2	72.7	5	E	1016
17	154	65.5	6.2	104.4	6.6	100.9	6	-	1017
18	143	58.1	6.9	106.9	7.5	123.5	5	-	1018
19	128	61.3	7.5	92.3	8.7	140.9	6	-	1019
20	118	66.4	8.4	102.2	8.7	141.8	6	-	1020
21	112	64.9	8.7	123.0	8.4	132.2	5	-	1021
22	95	56.0	8.5	91.2	9.0	113.5	4	-	1022
23	120	45.9	8.2	106.6	9.0	90.3	4	-	1022

HOUR	WAVE NUMBER	19/9		03	19	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	113	46.9	8.0	69.2	8.4	71.9	4	-	1022
1	100	53.1	8.2	73.2	8.4	58.9	4	-	1023
2	104	53.2	8.4	85.7	7.5	61.2	4	-	1023
3	118	50.9	8.2	70.7	9.6	72.4	4	-	1023
4	122	44.6	8.1	87.2	9.0	94.2	3	-	1023
5	119	47.7	7.9	67.0	8.4	116.8	4	-	1024
6	122	50.5	7.6	77.6	9.3	135.8	5	-	1025
7	141	44.8	7.1	87.5	7.2	144.1	5	-	1026
8	120	43.2	8.0	71.8	7.8	138.9	5	-	1026
9	121	44.9	7.9	68.8	8.4	120.9	4	-	1027
10	120	41.7	8.2	61.9	8.1	97.5	4	-	1026
11	106	41.0	7.7	65.9	9.0	66.0	3	-	1026
12	120	33.3	7.3	57.5	8.1	39.8	3	SE	1025
13	109	37.8	8.2	60.1	8.7	20.7	3	SSE	1025
14	98	36.7	8.0	65.6	6.9	15.8	4	S	1024
15							4	SE	1024
16	111	32.8	7.7	49.1	6.9	43.0	3	S	1024
17	124	39.5	7.1	57.1	7.2	65.8	3	WSW	1024
18	130	37.0	6.6	65.2	6.3	90.3	0	-	1024
19	101	43.0	8.1	60.4	8.4	107.1	0	-	1024
20	119	47.9	7.5	72.1	7.5	122.8	1	NNW	1024
21	115	50.0	7.6	76.2	7.5	122.1	2	NNW	1024
22	126	52.3	7.1	82.8	7.5	112.9	3	NNW	1024
23	105	52.7	7.7	86.8	7.8	100.4	3	N	1024

HOUR	WAVE NUMBER	19/9		03	20	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	110	42.2	7.7	69.6	7.5	86.0	2	N	1023
1	115	40.3	7.4	63.4	7.5	75.0	3	N	1023
2	130	38.5	7.4	60.1	7.5	69.6	3	N	1022
3	131	41.5	7.0	86.8	7.2	75.9	4	NNE	1021
4	128	47.3	7.3	73.6	8.4	88.5	5	NNE	1021
5	133	47.9	7.4	71.8	7.8	106.0	4	N	1021
6	129	46.6	7.3	85.3	7.5	127.1	4	N	1021
7	103	52.6	7.2	80.2	7.8	139.1	3	N	1020
8	115	51.4	7.6	87.9	6.9	139.7	4	NNE	1020
9	107	60.7	7.5	93.0	7.5	131.2	3	NNE	1020
10	105	55.8	7.5	75.1	7.2	116.5	2	NE	1018
11	118	54.9	7.6	84.2	7.5	89.4	3	NE	1018
12	114	49.0	7.3	93.4	6.9	67.6	1	NE	1018
13	91	49.9	8.2	86.1	8.4	44.1	1	SSE	1017
14	102	53.9	7.6	79.8	7.5	30.6	1	SSW	1016
15	95	59.8	7.6	98.9	8.4	28.9	1	S	1015
16	99	64.0	7.3	116.5	6.9	40.0	0	-	1015
17	95	64.5	7.4	88.6	6.6	55.6	1	S	1015
18	97	61.6	7.3	81.7	7.8	77.0	0	-	1014
19	98	59.5	7.3	86.1	6.3	97.9	0	-	1015
20	104	56.3	7.6	88.3	7.8	111.5	1	N	1015
21							4	NE	1015
22							4	NNE	1015
23							4	NNE	1015

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		1979		03	21				
HOUR	WAVE NUMBER	H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	WIND		PRES
							VEL	DIR	
0							4	NNE	1015
1							4	NNE	1015
2							5	NNE	1015
3							4	NE	1014
4							5	NNE	1014
5							5	NNE	1015
6							6	NE	1015
7							6	NE	1016
8							5	NE	1017
9							6	NE	1017
10							6	NE	1017
11							6	NE	1017
12							6	NE	1016
13							6	NE	1015
14							6	NE	1015
15							5	NE	1015
16							5	NE	1015
17							4	NE	1015
18							2	NE	1015
19							4	NNE	1016
20							4	N	1017
21							4	N	1017
22							4	N	1017
23							4	N	1016

		1979		03		22				
HOUR	WAVE	H	I	H	T			WIND		
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)	TIDE	VEL	DIR	PRES	
0							4	N	1017	
1							2	NNW	1017	
2							3	NW	1017	
3							1	NNW	1017	
4							4	N	1016	
5							2	NNE	1017	
6							0	-	1017	
7							2	N	1017	
8							1	N	1017	
9							2	SSW	1016	
10							6	S	1015	
11							8	S	1015	
12							7	S	1013	
13							7	S	1012	
14							4	SW	1011	
15							9	SW	1010	
16							4	SW	1011	
17							1	NW	1011	
18							5	NW	1012	
19							6	NNE	1014	
20							6	NNE	1016	
21							6		1017	
22							6	N	1017	
23							5	N	1018	

HOUR	WAVE NUMBER	1979		03		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0							4	N	1018
1							4	N	1019
2							4	NNE	1019
3							4	NNE	1020
4							4	NNE	1020
5							4	NNE	1022
6							4	NNE	1023
7							4	NE	1024
8							4	NNE	1024
9							3	NE	1025
10							3	NE	1025
11							3	NE	1024
12	135	35.6	6.8	85.7	8.7	117.9	2	E	1024
13	140	36.5	6.6	57.9	6.3	109.2	4	SSE	1023
14	152	43.7	6.3	65.9	9.0	94.2	4	S	1023
15	160	36.1	5.9	56.4	8.4	80.5	5	S	1023
16	167	30.2	5.8	48.3	9.9	61.1	5	S	1023
17	201	33.8	4.5	51.6	4.2	44.6	5	S	1023
18	206	38.0	3.9	59.7	5.1	35.2	6	S	1023
19	202	41.8	4.2	67.4	6.9	28.7	5	S	1024
20	181	49.3	4.5	75.1	7.2	31.7	5	SE	1025
21	163	45.1	4.9	67.4	7.8	42.7	3	N	1025
22	144	46.6	5.6	78.0	4.5	59.6	3	N	1025
23	151	42.1	5.5	66.3	5.7	80.7	3	NNW	1025

HOUR	WAVE NUMBER	1979		03		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	136	38.4	6.3	61.5	5.7	103.0	2	N	1024
1	121	41.2	7.2	83.5	8.4	119.8	3	NNW	1024
2	112	45.5	7.8	77.3	9.3	130.6	3	N	1024
3	125	44.2	7.3	67.4	7.8	131.3	3	N	1023
4	122	45.0	7.5	66.3	6.0	125.5	4	N	1022
5	134	51.0	6.9	87.9	7.5	112.6	4	N	1021
6	118	53.0	7.1	84.6	7.2	101.4	5	N	1020
7	125	61.0	7.1	102.5	7.5	96.3	4	N	1020
8	120	59.6	6.9	97.0	6.3	91.9	5	N	1020
9	132	41.3	6.7	61.5	6.3	96.1	2	N	1018
10	101	54.1	7.1	79.5	6.3	103.2	3	SE	1017
11	130	51.7	7.1	89.7	7.2	110.4	6	SE	1016
12	132	61.2	6.7	99.2	8.1	121.2	6	S	1015
13	127	86.9	7.3	135.5	7.5	125.1	6	SW	1012
14	98	155.0	7.3	264.0	6.9	125.1	10	SW	1010
15							14	S	1008
16							13	S	1008
17							12	S	1007
18							12	S	1006
19							15	S	1004
20							15	S	1002
21							16	S	1000
22							5	S	1000
23							8	SW	998

HOUR	WAVE NUMBER	1979		03		25		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)				VEL	DIR	
0									4	N	998
1									5	N	998
2									4		998
3									1	N	998
4									0	-	999
5									0	-	999
6									0	-	1000
7									1	E	1001
8									2	E	1002
9									2	E	1003
10									3	SSE	1004
11									3	SE	1004
12									4	SE	1004
13									4	SE	1004
14									4	SE	1004
15									4	E	1005
16									3	NE	1005
17									4	NE	1006
18									4	NE	1007
19									4	NNE	1008
20									4	NNE	1009
21									3	NNE	1010
22									2	NNE	1011
23									2	NE	1012

HOUR	WAVE NUMBER	1979		03		26		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)				VEL	DIR	
0									1	N	1012
1									2	N	1012
2									2	N	1013
3									4	N	1013
4									3	N	1013
5									3	N	1014
6									4	N	1014
7									0	-	1014
8									0	-	1015
9									3	SW	1015
10	112	70.8	6.5	99.2	6.6	67.4			3	SSW	1015
11	128	59.6	6.2	111.7	6.3	75.8			2	S	1015
12	111	58.6	6.8	93.0	6.0	97.0			2	S	1015
13									4	SSE	1014
14	120	50.2	7.4	66.7	8.7	142.3			5	SSE	1012
15	164	50.9	6.0	87.2	7.5	155.2			6	S	1012
16	149	54.8	6.1	79.1	6.0	154.2			6	SSW	1011
17	187	75.5	3.9	106.9	6.6	139.7			10	SW	1010
18	161	112.6	4.8	186.0	4.8	112.4			8	WSW	1010
19									4	W	1011
20	155	114.0	5.0	211.3	5.1	45.8			1	NW	1012
21	138	98.3	5.4	150.1	6.0	25.5			4	NW	1013
22									3	NW	1013
23									3	NNE	1013

HOUR	WAVE NUMBER	1979		03 27		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0							4	N	1013
1							3	N	1014
2							2	N	1014
3							3	N	1014
4							3	N	1014
5							3	N	1015
6							2	N	1015
7							2	N	1016
8							0	-	1017
9							3	SE	1017
10	122	45.0	7.1	73.6	7.5	48.5	2	SE	1017
11							4	SSE	1017
12	130	54.6	6.2	115.0	5.7	70.4	3	SSE	1016
13	131	45.9	6.6	80.2	7.2	96.8	3	SSE	1016
14	121	48.3	6.8	69.9	6.3	126.0	3	S	1015
15	126	44.9	6.6	64.8	6.9	152.6	3	S	1016
16	138	45.7	6.2	66.3	6.9	161.6	3	S	1016
17	122	46.8	6.9	65.9	6.6	157.5	0	-	1016
18							0	-	1017
19							0	-	1017
20							6	NNE	1018
21							5	N	1019
22							5	N	1019
23							5	NNE	1020

HOUR	WAVE NUMBER	1979		03 28		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0							4	NNE	1020
1							5	NNE	1020
2							4	NNE	1021
3							4	NNE	1021
4							4	N	1022
5							4	N	1022
6							3	N	1022
7							3	NNW	1023
8							3	N	1023
9							3	NE	1023
10	133	22.3	6.9	34.4	7.5	26.7	4	SE	1024
11	147	25.1	6.6	42.5	7.2	20.0	4	SSE	1023
12							3	S	1023
13							5	S	1022
14							6	S	1021
15							7	S	1021
16	209	52.5	3.5	71.8	5.4	149.4	9	S	1020
17	214	52.4	3.4	71.4	2.7	159.5	9	S	1020
18							8	SW	1020
19	206	48.0	3.6	82.0	3.9	127.4	6	SW	1020
20	204	51.0	3.6	80.6	6.3	95.6	3	WSW	1020
21							4	WSW	1020
22							2	WSW	1020
23							0	-	1020

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		19/9		03	29				
HOUR	WAVE NUMBER	H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	WIND VEL DIR		PRES
0							0	-	1019
1							1	W	1019
2							0	-	1019
3							1	NNW	1018
4							2	NNW	1018
5							1	N	1018
6							2	NNW	1018
7							1	NNE	1018
8							2	N	1018
9							1	NNE	1018
10	158	57.0	4.6	101.8	3.3	34.2	2	SSE	1017
11	161	56.1	4.6	77.6	6.0	12.9	3	SSE	1016
12	165	60.1	4.4	84.2	5.1	14.5	5	S	1016
13							6	S	1015
14							7	SSW	1014
15							7	SSW	1014
16							9	SW	1014
17							9	SW	1014
18							5	SW	1014
19	162	77.5	4.7	111.0	5.1	150.8	4	SW	1014
20	152	71.7	4.9	123.4	5.1	127.8	0		0
21							0	-	1014
22							0	W	1014
23							7	SW	1014

		19/9		03 30				WIND		
HOUR	WAVE NUMBER	H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	VEL	DIR	PRES	
	0						10	SSW	1014	
	1						9	SW	1013	
	2						7	SSW	1013	
	3						6	SW	1011	
	4						7	SW	1010	
	5						6	S	1009	
	6						6	S	1008	
	7						7	S	1008	
	8						5	S	1007	
	9						8	S	1006	
	10						5	S	1004	
	11						4	SSE	1002	
	12						1	S	1002	
	13						0	-	1000	
	14						7	SE	999	
	15						7	S	997	
	16						15	SW	997	
	17						12	SSW	997	
	18						12	SSW	996	
	19						15	SSW	995	
	20						13	SSW	994	
	21						10	S	992	
	22						10	SSW	991	
	23						14	SW	990	

HOUR	WAVE NUMBER	1979 03 31				TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0							12	SW	988
1							13	SW	988
2							15	WSW	988
3							14	WSW	988
4							15	WSW	989
5							10	WSW	992
6							2	SW	995
7							7	S	997
8							7	S	999
9							9	SSW	1000
10							6	SW	1000
11							6	S	1001
12							4	S	1002
13							5	S	1002
14							5	ESE	1003
15							4	SE	1003
16							4	SSE	1004
17							0	-	1005
18							0	-	1006
19							0	-	1008
20							5	NNE	1009
21							4	NNE	1010
22							4	N	1011
23							4	NNE	1011

		1979		04	01				
HOUR	WAVE NUMBER	H	I	H	T	TIDE	WIND		PRES
		(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
	0						5	NNE	1012
	1						3	N	1013
	2						4	N	1013
	3						4	N	1014
	4						4	N	1014
	5						4	NNE	1015
	6						3	NNE	1017
	7						2	NE	1017
	8						3	NE	1018
	9						2	N	1019
	10						2	NE	1019
	11						4	SW	1018
	12						3	S	1018
	13						4	SE	1018
	14						4	SSW	1018
	15						5	SSW	1018
	16						7	S	1018
	17						8	SSE	1019
	18						8	SE	1020
	19						7	ESE	1019
	20						4	E	1020
	21						2	NE	1020
	22						1	NNW	1020
	23						3	NNW	1020

		1979		04		02				
HOUR	WAVE NUMBER	H	I	H	T	TIDE	WIND		PRES	
		(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR		
0							3	NNW	1020	
1							3	NNW	1019	
2							4	N	1018	
3							5	N	1018	
4							5	N	1017	
5							6	N	1017	
6							6	N	1017	
7							6	N	1016	
8							6	N	1016	
9							6	N	1015	
10							7	N	1014	
11							7	N	1013	
12							7	N	1012	
13							8	N	1010	
14							8	N	1010	
15							7	N	1010	
16							8	N	1009	
17	112	77.9	8.2	115.7	8.4	69.7	6	N	1009	
18	95	119.1	8.3	178.3	8.7	98.6	6	NNE	1008	
19	82	125.3	8.6	212.0	8.1	120.7	5	N	1008	
20	87	110.3	8.7	179.4	8.4	132.4	5	N	1008	
21	86	102.8	8.8	162.6	9.0	137.0	4	N	1008	
22	92	87.6	9.0	115.0	9.3	131.3	5	N	1007	
23	92	77.6	9.0	104.4	8.7	121.4	2	N	1006	

HOUR	WAVE NUMBER	19/9		04		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	94	65.2	8.9	105.5	8.4	112.2	2	N	1006
1	94	75.7	9.0	114.6	9.6	103.2	2	N	1005
2	83	88.0	8.6	136.6	8.4	98.8	2	N	1005
3	100	88.5	8.8	147.2	8.7	107.1	3	NNE	1004
4	90	94.8	8.4	156.4	7.8	117.9	2	NNE	1004
5	101	93.6	8.5	157.1	8.7	134.9	2	N	1004
6	85	88.3	8.3	115.4	7.2	151.9	2	N	1004
7	92	85.1	8.3	131.1	7.8	160.2	2	N	1005
8	97	74.7	8.1	104.0	7.5	157.0	1	N	1005
9	93	76.7	8.0	102.9	8.4	149.0	0	-	1005
10							1	SSE	1005
11							1	S	1005
12							1	SSW	1005
13							2	S	1005
14	101	68.4	7.7	118.5	8.1	49.7	3	S	1005
15	98	69.5	7.8	109.9	8.1	47.8	2	SSW	1005
16	94	70.7	7.9	104.4	8.1	55.9	2	SSW	1005
17	104	63.7	7.1	102.5	6.6	74.2	3	SW	1005
18	96	67.1	7.5	87.9	8.1	91.0	1	SW	1006
19	96	83.1	7.3	114.5	5.7	109.0	1	SW	1007
20	120	79.1	7.0	147.6	7.2	125.5	5	NNE	1008
21	137	63.1	7.0	100.0	8.1	131.9	6	N	1009
22	120	66.6	7.6	140.6	7.2	135.2	6	N	1009
23	131	54.6	7.6	76.2	6.6	129.4	4	NNE	1010

HOUR	WAVE NUMBER	19/9		04		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	111	61.8	7.9	93.8	7.5	120.4	4	NNE	1011
1	134	45.0	7.0	70.7	6.3	115.8	2	NE	1011
2	136	42.6	7.0	60.8	8.7	108.0	0	-	1012
3	146	37.5	6.2	69.9	7.5	108.1	0	-	1012
4	144	39.4	6.7	68.5	7.2	114.7	2	NE	1013
5	137	45.1	7.0	76.2	7.2	121.8	3	NE	1014
6	159	39.6	6.2	83.9	6.6	131.9	4	NE	1015
7	173	33.9	5.7	53.1	7.8	141.1	4	NE	1016
8	188	33.2	5.0	67.4	7.2	142.3	6	NNE	1017
9	174	37.2	5.4	61.2	7.5	137.4	5	NE	1018
10	186	29.8	5.3	57.1	7.2	123.9	5	NE	1019
11	201	26.5	4.8	45.4	6.0	108.0	5	NE	1019
12	163	26.3	6.1	46.9	8.4	90.8	2	N	1019
13	158	27.6	6.6	42.1	8.4	66.2	3	N	1019
14	118	25.0	7.3	38.1	6.9	53.5	1	NE	1019
15	130	22.0	6.3	45.4	6.9	44.8	2	NE	1019
16	146	43.5	6.4	61.9	7.5	41.1	0	-	1019
17	142	38.6	6.1	61.5	6.6	48.3	1	W	1020
18	148	32.3	5.9	62.6	5.4	57.0	1	E	1022
19	136	28.7	6.1	50.5	6.6	73.8	2	N	1022
20	150	28.5	5.8	42.5	5.7	86.0	4	ENE	1023
21	167	30.6	5.8	56.4	7.8	102.1	4	NE	1024
22	165	28.1	5.6	63.0	6.6	108.9	4	NNE	1025
23	163	27.4	5.7	43.2	6.3	110.6	5	NNE	1025

HOUR	WAVE NUMBER	19/9		04	05	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	162	26.1	5.9	39.2	7.2	109.6	4	N	1026
1	190	24.8	4.9	45.0	7.5	105.8	4	N	1026
2	182	27.4	5.3	40.3	3.3	101.8	4	N	1027
3	167	28.6	5.7	40.3	5.7	100.2	5	N	1027
4	183	26.4	5.6	45.8	6.9	98.1	6	N	1027
5	205	24.2	5.0	37.7	6.3	100.5	6	NNE	1028
6	175	24.9	5.5	47.2	6.6	103.7	6	N	1029
7	202	20.7	5.0	34.4	6.0	107.6	7	N	1029
8	206	22.1	4.7	39.6	6.9	110.6	7	N	1029
9	222	25.3	4.3	41.7	3.9	111.5	7	N	1030
10	191	25.6	5.3	43.6	5.4	105.8	7	N	1030
11	202	24.5	5.0	45.8	8.1	95.9	6	N	1029
12	166	34.1	6.1	64.1	8.4	84.6	6	NNE	1029
13	182	29.8	5.4	52.7	7.8	71.3	6	N	1029
14	156	43.6	6.0	78.4	6.9	55.8	6	N	1028
15	146	46.8	6.8	82.0	7.5	45.3	7	N	1028
16	145	45.4	7.3	66.7	8.1	35.0	6	N	1027
17	155	46.1	6.7	75.4	8.4	32.4	6	N	1027
18	133	48.7	7.7	78.4	8.1	35.2	5	N	1027
19	141	41.8	7.1	75.4	8.1	42.3	6	N	1027
20	160	36.7	6.6	71.0	8.1	56.6	6	N	1027
21	150	38.8	7.2	71.8	8.1	68.1	6	N	1027
22	166	38.5	6.4	65.2	7.8	80.0	7	N	1027
23	172	36.9	6.3	59.3	7.8	90.1	6	N	1027

HOUR	WAVE NUMBER	19/9		04	06	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	166	33.4	6.4	58.6	6.9	97.3	6	NNE	1026
1	160	31.8	6.6	59.7	9.9	101.2	5	NNE	1026
2	174	30.0	6.4	54.2	8.7	100.7	5	NNE	1026
3	143	35.1	7.4	72.5	9.0	97.2	6	NNE	1026
4	160	31.3	6.4	58.6	8.4	93.5	6	NNE	1026
5	167	32.9	6.4	61.5	9.0	91.0	5	NNE	1026
6	165	32.0	6.5	57.1	7.8	90.1	5	NNE	1026
7	170	33.6	6.3	62.3	7.8	90.1	6	NNE	1026
8	166	39.8	6.2	78.0	7.8	92.4	5	NNE	1027
9	170	39.3	6.1	66.3	8.4	94.0	6	NNE	1027
10	145	37.2	7.4	65.2	8.4	93.1	4	NNE	1027
11							2	NNE	1027
12	95	49.7	8.2	76.9	8.1	92.7	2	NE	1027
13	111	46.4	7.9	70.3	9.6	83.7	2	E	1026
14	130	50.6	7.5	88.6	8.4	74.3	5	SE	1025
15	125	58.1	8.1	86.8	6.9	63.5	5	SE	1025
16	127	52.0	7.2	111.0	8.4	52.2	4	SE	1024
17	101	56.9	8.4	69.9	8.7	41.8	0	-	1025
18	87	74.8	8.9	90.5	9.9	35.9	2	SW	1025
19	99	69.6	8.0	102.9	7.5	36.6	1	WNW	1026
20	92	73.0	8.3	96.7	9.3	40.0	0	-	1026
21	105	71.1	7.7	122.3	8.1	49.9	0	-	1026
22	104	69.6	7.0	109.5	6.6	67.1	1	NW	1027
23	94	75.8	8.0	102.5	7.2	80.5	2	NNW	1028

HOUR	WAVE NUMBER	19/9		04		07		WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	VEL	DIR		
0	94	73.9	7.9	120.8	7.8	93.5	0	-	1028	
1	104	64.7	7.3	100.7	7.5	104.3	1	NNW	1027	
2	103	67.5	8.0	92.3	8.7	106.7	2	N	1027	
3	108	67.6	7.7	115.4	8.1	107.8	3	NNW	1027	
4	91	78.9	8.6	120.5	8.1	103.5	2	N	1027	
5	94	83.1	7.9	165.5	9.3	93.5	2	N	1027	
6	91	85.7	8.4	145.0	8.7	85.0	2	N	1027	
7	99	74.9	8.3	129.6	8.1	79.1	2	NNW	1028	
8	95	84.4	7.6	138.8	6.9	75.9	2	N	1028	
9	106	80.6	7.7	137.3	8.1	76.6	0	-	1028	
10	95	86.9	7.5	125.2	8.7	80.7	0	-	1028	
11	97	79.5	7.8	125.6	7.5	88.0	2	SSE	1027	
12	102	79.3	7.7	111.0	6.6	94.3	3	S	1027	
13	111	74.0	7.1	115.7	6.3	94.7	4	S	1026	
14	119	73.8	7.1	99.6	6.9	92.7	4	S	1025	
15	107	73.0	7.1	115.0	7.5	85.0	3	SW	1025	
16	119	76.5	7.1	129.3	7.2	71.0	4	SSW	1025	
17	120	90.4	7.7	153.4	7.5	54.7	4	SW	1025	
18	127	88.8	6.9	153.4	7.2	42.1	6	S	1025	
19	128	95.2	7.3	142.8	9.6	34.0	6	S	1025	
20	129	94.5	7.1	142.1	7.2	31.0	7	S	1025	
21	131	96.4	6.7	166.3	8.7	37.3	7	S	1025	
22	142	99.2	5.8	172.5	6.9	51.0	8	S	1025	
23	143	101.2	5.6	172.9	7.8	67.4	7	S	1024	

HOUR	WAVE NUMBER	19/9		04		08		WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	VEL	DIR		
0	150	99.2	4.8	154.5	5.4	86.7	8	S	1024	
1	151	94.5	5.1	137.7	5.7	103.5	7	S	1024	
2	158	87.2	4.9	142.5	6.3	115.8	6	S	1022	
3	160	75.7	4.9	134.0	4.8	117.5	5	SSW	1022	
4	142	75.4	5.9	115.7	7.5	113.3	2	SW	1021	
5	136	74.5	6.2	106.2	4.5	103.9	2	SW	1020	
6	145	81.3	5.4	115.4	9.0	90.3	6	S	1020	
7	139	90.6	5.8	146.1	4.5	78.8	6	S	1020	
8	141	85.8	5.7	137.0	4.8	68.7	3	SW	1019	
9	141	83.5	6.0	130.4	4.5	68.1	3	SW	1019	
10	153	81.9	5.6	142.8	6.6	72.9	9	S	1018	
11	151	77.0	5.3	146.1	4.5	83.7	1	W	1017	
12	140	85.5	5.6	139.9	5.4	97.5	3	SW	1016	
13	149	102.8	5.2	160.4	4.5	109.0	6	S	1014	
14	145	122.7	5.2	223.8	5.4	117.0	8	S	1012	
15	143	157.7	5.6	238.8	5.7	115.6	11	S	1010	
16	116	226.1	6.2	346.8	6.0	104.4	14	SSE	1007	
17	109	253.2	6.7	340.2	7.5	91.9	16	SSE	1005	
18	105	318.0	6.7	580.4	6.6	72.6	17	SSE	1003	
19	98	349.8	7.5	557.0	7.5	56.1	15	S	1002	
20	94	379.9	7.4	559.6	6.6	49.6	16	S	1002	
21	84	362.0	8.1	574.2	8.1	51.3	14	S	1000	
22	85	364.9	8.3	503.2	9.9	57.9	10	S	999	
23	87	339.7	8.6	533.6	9.0	69.9	11	SW	998	

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HOUR	WAVE NUMBER	19/9		04		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	97	295.4	8.2	420.0	7.8	93.5	10	SW	997
1	94	284.7	8.8	431.4	9.6	119.1	10	WSW	996
2	91	311.6	9.0	420.4	8.7	131.7	10	SW	995
3	93	280.3	8.9	460.0	9.0	139.3	10	SSW	997
4	91	254.2	9.4	375.4	7.8	135.8	7	WSW	997
5	87	276.0	9.1	376.8	9.9	132.4	9	WSW	998
6	95	227.9	8.9	288.6	10.2	119.5	0	-	1000
7	88	252.5	8.9	357.4	10.2	98.2	4	SW	1001
8	86	218.9	8.6	336.9	9.0	80.4	5	SSW	1002
9	96	207.9	8.3	335.8	9.0	70.3	9	SW	1002
10	85	239.3	9.1	332.2	8.4	73.5	9	SW	1002
11	93	255.5	8.8	343.9	9.9	79.1	7	SW	1002
12	107	203.5	8.1	305.8	7.8	100.0	7	SW	1002
13	97	220.4	8.2	333.3	9.0	114.9	10	SSW	1001
14	101	198.9	8.0	357.1	7.2	133.8	10	SSW	1000
15	107	226.1	7.8	356.3	7.8	138.6	12	SSW	1000
16	109	226.9	6.9	338.4	5.4	134.2	12	SSW	1000
17	114	239.3	7.0	394.0	6.3	121.2	10	SW	1001
18	101	224.4	7.4	322.6	8.4	98.9	10	SW	1002
19	106	204.6	7.1	312.7	6.9	74.9	5	WSW	1003
20	119	173.2	6.7	260.7	7.2	54.3	5	SW	1005
21	113	151.0	6.8	286.4	6.9	43.9	3	W	1006
22	107	140.0	7.4	191.9	7.5	41.9	4	W	1006
23	118	123.5	7.3	181.3	7.5	53.5	4	W	1006

HOUR	WAVE NUMBER	19/9		04		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	104	135.7	8.0	196.3	7.8	77.0	4	NE	1007
1	97	119.6	7.7	165.9	6.9	102.1	3	NNE	1009
2	106	92.7	7.2	150.5	7.2	123.9	2	NE	1010
3	104	78.8	7.4	117.6	8.4	138.4	1	N	1010
4	107	95.4	7.2	120.5	6.6	141.4	0	-	1011
5	113	87.6	7.3	143.9	6.0	132.4	2	NNW	1012
6	114	77.0	7.0	136.6	8.7	108.9	2	N	1013
7	113	75.3	6.8	103.3	7.2	86.9	2	N	1014
8	113	84.3	7.4	129.6	7.2	63.7	4	NNE	1015
9	105	65.6	7.0	101.8	7.8	46.4	1	E	1016
10	100	82.7	7.4	129.3	6.6	39.8	2	SE	1016
11	103	64.4	7.1	91.9	8.4	48.5	2	SSE	1016
12	111	71.1	7.1	107.3	6.0	64.4	3	S	1016
13	110	75.0	7.3	104.4	6.6	86.9	3	S	1016
14	109	69.4	6.9	106.9	7.5	108.3	3	SSW	1016
15	127	54.4	7.3	78.7	6.3	127.1	5	S	1016
16	128	73.5	7.4	117.9	6.6	129.7	6	S	1016
17	168	67.0	5.4	106.9	6.9	120.7	7	S	1016
18	168	73.1	4.7	108.0	6.9	99.8	8	S	1017
19	161	73.4	4.8	111.0	6.0	73.1	8	S	1017
20	166	79.3	4.9	135.5	9.0	46.6	8	SW	1017
21	159	68.5	5.4	111.7	9.3	27.3	3	WSW	1018
22	143	54.8	6.3	84.6	8.4	19.6	3	W	1018
23	136	48.0	6.2	76.5	5.4	27.8	2	SW	1018

HOUR	WAVE NUMBER	1979		04 11		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	155	50.5	5.9	74.3	7.5	47.8	1	W	1018
1	117	57.3	7.3	82.4	9.9	75.8	1	SW	1018
2	113	56.4	7.3	80.2	7.8	105.0	2	SW	1017
3	139	46.9	6.5	76.5	8.1	127.1	2	SW	1016
4	140	41.3	6.7	60.8	9.9	134.7	0	-	1016
5	134	50.6	6.6	88.3	7.5	130.4	2	WSW	1016
6	140	46.0	6.4	74.0	8.1	113.6	0	-	1016
7	138	55.0	5.8	91.9	7.8	86.2	0	-	1016
8	126	53.6	7.3	95.9	8.4	57.3	3	S	1016
9	154	51.6	5.7	81.7	8.4	34.9	2	SSW	1016
10	180	73.2	4.6	138.1	7.8	22.5	8	SSW	1015
11	154	101.4	4.7	141.0	3.9	24.1	12	S	1015
12	162	93.3	4.9	171.8	7.5	42.3	10	S	1013
13	169	92.3	4.3	131.8	3.0	67.8	10	SSW	1012
14	152	111.7	4.8	176.1	4.8	98.8	9	SW	1012
15	160	128.2	4.9	203.6	5.7	124.8	12	SW	1010
16	149	128.4	5.0	212.8	3.9	139.3	11	SW	1010
17	141	134.0	5.4	226.7	7.5	138.9	11	SW	1010
18	153	114.2	4.9	196.3	5.7	126.9	8	SW	1010
19	156	102.7	5.2	140.6	6.3	100.4	5	WSW	1010
20	142	108.2	5.5	163.0	7.5	71.0	4	WSW	1010
21	153	91.3	5.2	138.8	3.9	45.0	4	WSW	1010
22	159	95.0	4.9	143.6	5.1	33.5	8	WSW	1010
23	155	95.1	4.9	138.1	4.5	32.2	6	WSW	1010

HOUR	WAVE NUMBER	1979		04 12		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	137	104.2	5.3	164.4	4.2	49.7	4	WSW	1011
1	124	87.9	6.1	134.8	5.1	75.6	2	N	1011
2	122	79.7	6.4	113.5	6.3	105.8	4	NNE	1011
3	130	65.5	6.0	91.9	7.8	130.4	3	NNE	1011
4	119	57.9	6.5	85.0	6.0	146.0	0	-	1012
5	127	55.9	6.3	88.3	6.3	146.2	0	-	1013
6	119	54.6	6.5	76.9	6.9	131.9	0	-	1013
7	128	51.8	6.0	76.9	6.6	104.4	0	-	1014
8	121	56.5	7.0	91.2	7.2	71.9	0	-	1014
9	120	58.5	7.3	89.4	7.2	42.7	1	S	1014
10	116	60.3	6.6	106.6	10.2	22.1	1	ESE	1014
11	108	60.7	6.6	90.1	5.4	17.5	2	SE	1014
12	123	67.8	6.8	114.6	6.3	28.3	3	E	1014
13	112	59.5	6.5	91.6	5.7	53.6	5	NE	1013
14	157	56.4	6.1	93.4	6.9	83.9	5	NNE	1013
15	131	61.7	7.1	113.5	6.9	114.7	4	NE	1014
16	137	68.9	6.4	120.5	7.8	138.9	6	NE	1014
17	127	69.9	7.0	116.1	6.6	147.3	4	NE	1015
18	124	68.6	6.9	116.5	8.1	139.3	5	NNE	1016
19	128	71.4	6.9	100.7	5.7	117.9	5	NNE	1017
20	112	73.0	7.6	121.2	6.9	88.9	4	N	1018
21	112	57.1	7.1	82.4	7.2	60.7	2	NNE	1019
22	127	49.8	7.1	84.2	7.8	35.9	1	ENE	1019
23	116	48.7	7.1	78.7	6.9	28.1	2	NE	1020

HOUR	WAVE NUMBER	19/9		04 13		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	130	44.9	7.2	70.7	6.9	36.5	4	NNE	1020
1	144	39.8	7.5	63.7	8.1	57.5	3	NNE	1021
2	133	39.9	7.4	59.3	8.1	86.0	3	NNE	1021
3	125	38.3	7.6	66.3	6.3	114.5	3	NNW	1021
4	118	40.5	7.6	59.0	7.5	134.3	3	NW	1021
5	113	37.5	7.8	61.2	7.5	142.7	0	-	1021
6	115	34.3	7.0	60.1	8.4	132.4	3	NNW	1022
7	119	36.5	7.0	62.6	6.6	107.4	3	N	1023
8	114	40.4	7.8	66.3	11.1	71.7	1	NE	1023
9	106	42.0	7.7	78.4	8.1	37.2	2	SSE	1023
10	103	46.3	8.4	70.3	8.4	10.6	2	SSE	1023
11	109	48.4	7.9	72.5	7.5	-4.2	3	S	1023
12	122	48.0	7.3	82.4	8.4	1.2	4	S	1022
13	129	51.8	7.4	79.8	6.9	21.6	5	S	1022
14	179	44.5	5.3	77.3	8.4	52.0	7	S	1022
15	184	43.7	5.0	61.9	9.6	88.5	6	S	1021
16	201	45.0	4.3	69.9	3.3	121.6	6	S	1021
17	187	57.0	4.1	87.9	4.8	142.3	8	S	1021
18	180	69.5	3.8	96.3	4.2	143.9	9	S	1021
19	174	81.2	4.2	136.6	4.2	129.6	9	S	1021
20	178	86.7	3.8	143.6	3.6	107.1	10	S	1021
21	176	82.5	4.0	131.5	3.6	78.4	9	S	1021
22	177	80.1	4.1	136.2	3.9	52.0	10	S	1020
23	178	68.3	4.1	93.8	3.0	37.0	7	SSW	1020

HOUR	WAVE NUMBER	19/9		04 14		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	176	67.6	4.7	114.3	4.5	39.6	6	SW	1020
1	166	61.8	4.9	86.8	8.7	54.5	6	SSW	1019
2	166	59.0	5.0	85.0	6.0	81.6	4	SSW	1018
3	152	60.9	4.8	95.2	4.8	111.2	4	S	1018
4	154	55.5	5.4	90.1	6.3	136.5	3	N	1018
5	131	59.3	5.7	87.9	6.3	148.7	3	NNW	1017
6	141	77.4	5.4	125.2	6.0	145.7	1	N	1016
7	152	107.1	5.1	155.3	5.7	126.4	12	SSW	1015
8	137	102.5	5.3	152.3	3.9	97.2	6	SW	1016
9	154	123.0	4.7	205.1	4.5	60.5	11	SSW	1015
10	167	111.0	4.5	185.3	4.2	27.8	10	SSW	1015
11	157	88.9	4.8	134.4	4.8	9.7	10	SSW	1015
12	146	103.4	4.8	149.4	5.1	7.1	12	S	1014
13	151	119.5	4.9	198.1	4.8	18.1	12	S	1013
14	151	135.5	4.6	232.5	5.7	44.1	13	S	1012
15	146	140.5	4.9	210.2	3.9	78.4	14	S	1011
16	149	144.0	4.9	254.2	3.9	115.0	14	SSW	1011
17	155	133.7	4.9	222.3	4.5	142.3	15	SSW	1010
18	141	138.7	5.1	214.6	3.9	157.2	12	SSW	1011
19	141	127.4	5.4	208.7	6.0	153.1	9	SW	1012
20	146	134.5	5.2	192.6	4.8	139.3	9	SW	1012
21	139	137.0	5.7	182.4	5.4	112.6	4	NE	1013
22	139	112.3	5.8	176.9	5.7	85.8	4	N	1014
23	122	98.1	6.3	146.9	6.6	65.1	8	NNE	1014

		1979		04	15					
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES	
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR		
0	111	89.9	6.6	142.1	6.0	58.2	4	NNE	1014	
1	121	86.8	6.6	145.0	6.9	65.5	5	NNE	1015	
2	112	82.1	7.0	113.9	6.9	84.4	5	N	1014	
3	122	86.6	6.8	136.2	7.2	110.8	7	N	1015	
4	132	68.1	6.5	129.6	6.6	135.8	7	NNE	1015	
5	128	61.5	6.8	96.7	6.9	152.9	6	N	1016	
6	125	57.0	6.7	96.3	6.9	157.0	6	NNE	1017	
7	124	56.2	7.0	84.2	7.2	142.7	6	NNE	1017	
8	140	55.9	7.0	102.5	7.5	114.7	6	NNE	1018	
9	137	47.6	6.7	93.4	7.8	78.2	5	NE	1018	
10	123	55.8	6.7	85.7	7.2	44.8	5	NNE	1018	
11	108	61.0	7.0	101.4	6.9	18.1	4	NE	1018	
12	127	48.5	6.8	71.8	6.9	1.2	4	ESE	1017	
13	125	52.4	6.5	77.6	6.6	4.6	2	ESE	1017	
14	133	44.7	6.6	74.3	6.6	24.1	2	SSE	1016	
15	124	50.9	6.5	75.8	7.8	52.4	4	SSE	1016	
16	138	43.7	5.8	77.3	6.9	86.2	2	SSE	1016	
17	132	43.4	6.1	73.6	6.3	119.3	0	-	1016	
18	118	39.1	6.3	63.0	6.6	141.2	0	-	1016	
19	153	40.6	6.0	67.0	6.6	146.7	4	SE	1017	
20	163	43.3	5.1	77.3	6.3	141.1	2	ENE	1018	
21	156	47.3	5.7	68.5	6.9	123.5	3	NNE	1018	
22	159	44.4	5.6	91.2	7.2	100.5	3	N	1018	
23	130	45.4	6.1	64.5	5.4	77.7	3	N	1018	

		1979		04	16					
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES	
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR		
0	139	46.2	6.5	85.0	6.3	66.0	2	NNW	1018	
1	134	48.4	6.2	79.5	6.6	66.4	3	NNW	1017	
2	138	37.8	6.5	57.5	5.7	75.9	2	N	1016	
3	141	40.5	6.2	69.6	5.4	98.2	2	N	1016	
4	130	32.6	6.4	50.9	10.5	123.5	4	NNW	1016	
5	133	34.0	7.0	51.3	5.4	143.2	6	N	1016	
6	187	29.4	5.3	46.1	5.7	153.5	7	N	1016	
7	184	27.3	5.3	44.3	5.1	147.6	7	N	1015	
8	187	25.3	5.3	45.8	7.2	126.0	6	N	1014	
9	148	26.2	6.1	44.7	7.2	99.5	5	NNE	1013	
10	154	23.4	6.3	43.9	9.3	66.4	2	NNW	1012	
11	121	21.1	7.6	30.0	9.6	37.2	2	S	1010	
12	112	22.0	8.1	38.1	8.7	16.5	1	SSW	1009	
13	124	23.5	7.5	36.6	6.3	7.6	0	-	1008	
14	123	21.7	7.4	34.4	7.5	16.3	0	-	1006	
15	119	24.3	7.6	34.8	12.6	41.1	4	S	1005	
16	173	27.8	5.4	49.4	5.1	71.5	7	SSW	1002	
17	244	41.1	2.7	69.9	5.1	105.0	9	SW	1001	
18	223	51.3	3.1	78.7	2.7	135.1	0	-	1001	
19	215	64.9	3.2	91.6	3.3	152.8	9	WSW	1001	
20	203	65.5	3.3	117.9	2.7	157.7	4	NW	1001	
21	182	57.0	3.8	91.9	3.6	150.3	4	S	1001	
22	161	51.5	4.6	94.8	6.3	136.5	0	-	1002	
23	157	49.2	4.7	87.2	5.7	115.9	0	-	1001	

HOUR	WAVE NUMBER	1979		04		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	153	79.6	4.6	122.5	5.4	102.0	5	WSW	1001
1	160	98.0	4.7	151.6	4.5	94.0	0	-	1001
2	141	94.0	5.1	156.0	4.5	97.2	5	WNW	1001
3	128	82.1	5.4	160.0	5.1	110.6	1	WNW	1001
4	125	84.8	5.6	134.8	5.1	131.5	0	-	1002
5	133	77.2	5.7	121.6	5.7	147.4	0	-	1002
6	123	71.8	6.6	112.4	6.3	162.3	0	-	1003
7	106	85.0	7.3	154.2	6.6	162.3	2	N	1004
8	94	126.6	7.3	163.0	6.6	151.0	2	ESE	1005
9	86	137.8	7.9	203.6	7.2	127.3	3	SE	1005
10	91	140.7	8.1	186.0	8.1	97.9	5	SSE	1005
11	83	165.1	8.5	266.6	7.8	58.6	5	SSE	1005
12	98	141.4	8.1	230.3	7.5	37.0	6	SSE	1005
13	103	116.4	7.5	193.7	6.9	19.8	5	SE	1005
14	114	101.5	7.5	165.5	6.9	18.9	4	SE	1005
15	106	115.5	7.2	179.4	7.2	27.4	3	SE	1005
16	100	117.9	7.0	180.5	6.3	50.4	5	SSE	1006
17	97	134.1	7.3	189.0	7.2	77.0	5	SW	1007
18	115	119.2	7.1	165.2	7.8	107.6	8	W	1008
19	114	107.1	6.2	190.4	6.0	129.9	2	W	1009
20	107	91.1	7.1	142.8	6.6	143.7	4	NE	1011
21	102	82.2	7.4	124.5	8.4	147.4	5	NNE	1012
22	99	65.9	7.8	120.5	6.6	138.1	3	N	1013
23	118	64.0	7.6	111.7	8.1	122.5	5	N	1014

HOUR	WAVE NUMBER	1979		04		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	110	74.2	7.8	119.4	8.1	110.3	4	N	1014
1	98	83.2	7.7	135.9	8.4	98.4	3	N	1015
2	106	77.5	7.5	109.5	6.9	92.7	2	NNE	1015
3	111	64.9	7.4	89.7	7.2	99.7	4	N	1016
4	104	62.1	7.5	107.7	7.5	108.7	3	NNW	1016
5	113	60.8	7.1	90.1	6.6	125.1	4	NNW	1017
6	117	54.3	6.7	84.2	7.5	139.5	3	N	1018
7	129	48.1	6.9	82.8	6.0	144.1	5	N	1019
8	141	48.5	6.7	88.6	6.3	140.5	5	NE	1019
9	157	39.3	6.1	64.5	6.0	125.5	3	SE	1019
10	136	38.1	6.7	57.1	6.9	-41.4	4	SE	1020
11	142	41.6	6.4	79.8	6.3	-54.5	5	S	1020
12	164	39.5	5.9	82.4	6.6	58.8	6	S	1020
13	168	41.3	5.2	69.2	5.4	25.8	6	SSE	1020
14	173	45.2	4.9	73.2	5.7	13.6	6	S	1020
15	168	58.9	5.0	91.9	5.1	14.2	7	S	1020
16	175	67.1	4.4	101.4	3.9	26.0	7	S	1020
17	166	67.2	4.6	102.2	6.0	45.1	7	S	1020
18	173	70.6	4.4	115.4	6.6	68.9	7	S	1021
19	182	65.9	4.1	119.4	4.2	92.7	8	SSW	1021
20	186	68.9	3.9	113.2	3.3	111.7	7	SW	1022
21	191	59.5	3.8	91.9	3.9	126.7	5	WSW	1023
22	188	47.6	4.1	82.8	3.6	128.0	3	W	1022
23	182	39.7	4.7	67.7	5.4	122.7	0	-	1022

HOUR	WAVE NUMBER	1979		04 19		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	153	34.2	5.7	50.9	6.6	115.2	0	-	1022
1	156	32.5	5.5	52.0	7.2	106.4	1	NW	1022
2	150	29.4	5.7	45.8	6.0	98.2	3	N	1022
3	190	24.7	5.1	46.1	7.5	96.8	4	N	1022
4	155	25.8	6.3	40.6	4.5	100.4	4	NNW	1022
5	171	25.4	6.1	38.5	6.9	111.0	4	N	1022
6	194	26.2	5.5	51.6	8.4	120.7	5	N	1022
7	197	22.8	4.9	39.6	8.7	128.5	6	N	1023
8	165	27.2	6.5	42.5	7.5	132.9	5	N	1024
9	156	39.8	5.1	69.6	6.0	126.6	4	N	1023
10	150	44.3	5.7	69.9	4.8	115.8	3	NNE	1022
11	133	45.6	5.3	84.6	5.4	96.3	3	ESE	1022
12							4	ESE	1021
13	141	37.4	5.3	52.4	4.5	52.6	3	SE	1020
14	160	30.2	5.2	45.4	4.5	34.5	3	SSW	1020
15	169	27.5	5.5	43.2	6.3	26.2	4	SW	1019
16	193	27.9	4.8	46.9	6.9	26.7	4	WSW	1018
17	162	29.5	5.9	43.2	9.0	34.7	2	W	1018
18	160	28.8	5.7	45.0	7.8	51.0	2	W	1018
19	145	31.4	6.4	59.0	5.4	71.0	0	-	1018
20	135	31.5	6.6	43.9	8.7	91.7	0	-	1018
21	116	25.1	7.6	38.1	10.5	111.7	3	NNW	1017
22	111	26.6	7.2	37.7	4.8	124.4	2	NNW	1016
23	120	31.0	7.5	50.2	7.2	128.9	2	N	1016

HOUR	WAVE NUMBER	1979		04 20		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	131	33.9	6.9	46.9	6.0	131.3	3	N	1015
1	117	39.8	7.4	52.4	6.6	128.7	2	N	1015
2	124	43.5	7.4	66.3	6.9	116.8	3	N	1014
3	134	45.5	6.9	71.0	6.9	112.0	4	NNE	1013
4	161	35.1	6.1	70.3	8.1	112.7	4	NNE	1013
5	134	37.9	6.9	64.5	7.8	112.9	5	NNE	1012
6	125	41.5	7.6	64.5	7.8	116.5	4	NNE	1013
7	156	30.6	6.5	57.5	8.4	123.7	4	NNE	1013
8	112	48.5	7.2	68.1	7.5	129.6	6	NNE	1012
9	102	74.5	8.8	125.6	9.6	132.0	7	NNE	1012
10	137	65.7	7.2	119.8	8.7	130.4	7	NNE	1012
11	129	74.1	8.1	115.7	9.3	122.5	8	NNE	1010
12	135	66.9	7.7	116.8	10.2	108.1	8	NNE	1010
13	117	75.3	8.7	146.5	9.6	89.9	8	NNE	1009
14	122	77.1	8.4	143.2	9.0	74.0	7	NNE	1009
15	93	92.5	10.1	138.4	9.3	56.8	7	NNE	1008
16	75	120.8	10.1	165.9	9.3	50.6	7	NNE	1008
17	79	116.1	10.2	203.2	9.6	48.7	6	NNE	1009
18	84	98.2	9.9	169.6	9.9	50.3	6	NNE	1009
19	83	98.2	9.7	175.4	9.3	63.0	6	NNE	1009
20	74	107.7	10.0	147.2	10.2	79.6	5	NNE	1009
21	112	67.6	9.2	121.6	9.6	99.3	6	NNE	1010
22	87	64.3	9.4	92.3	9.3	116.3	5	NNE	1009
23	89	68.8	9.5	102.2	10.5	129.7	4	NNE	1009

HOUR	WAVE NUMBER	19/9		04	21	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	121	51.3	8.3	112.1	9.3	143.9	5	NNE	1009
1	119	53.2	8.7	85.3	9.9	146.0	4	NNE	1008
2	111	60.6	9.1	103.3	8.7	140.9	3	NE	1008
3	119	53.7	8.3	90.5	9.0	136.8	3	NNE	1008
4	110	41.8	8.1	66.7	8.4	123.7	3	NE	1009
5	104	42.0	8.4	60.4	7.8	117.4	2	N	1009
6	94	47.7	9.0	70.7	9.6	114.7	0	-	1009
7	87	58.3	8.8	90.1	7.8	112.2	2	N	1010
8	108	47.6	8.6	69.6	9.6	115.2	2	N	1010
9	122	50.4	8.0	76.5	8.1	121.4	4	N	1010
10	110	46.8	8.4	77.6	8.4	125.1	3	NE	1010
11	123	43.4	8.0	86.4	9.0	128.3	4	S	1009
12	143	41.9	7.3	63.4	8.4	124.8	6	S	1009
13	197	42.0	4.6	75.1	8.7	116.8	7	S	1008
14	191	45.2	4.7	89.4	8.7	104.6	5	W	1009
15							6	SE	1009
16	138	48.3	6.6	83.5	8.1	74.0	2	E	1009
17	149	46.5	6.3	72.9	7.5	60.9	4	E	1009
18	153	53.2	5.3	77.6	9.0	53.6	0	-	1009
19	146	57.4	5.6	94.5	6.3	53.3	2	NNW	1010
20	143	47.7	6.0	71.0	8.4	62.8	6	NNE	1011
21	143	64.6	6.5	123.8	6.6	77.3	6	NE	1013
22	131	60.7	6.8	100.0	6.6	96.3	4	NNE	1013
23	117	53.5	7.3	77.6	6.9	115.9	4	NE	1013

HOUR	WAVE NUMBER	19/9		04	22	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	129	53.6	6.9	77.6	7.5	134.9	4	N	1014
1	142	39.1	6.4	64.1	6.6	145.1	3	NNW	1016
2	150	38.6	7.0	75.1	7.5	150.6	4	N	1017
3	152	35.5	7.1	58.2	8.4	143.4	4	NNE	1018
4	115	55.0	7.9	82.8	7.8	129.4	2	N	1019
5	123	50.7	7.7	79.8	9.6	116.3	4	N	1020
6	107	44.7	7.9	64.1	8.1	102.1	4	NNW	1021
7	107	45.3	8.6	67.7	9.0	93.6	0	-	1022
8	111	42.8	8.0	75.1	8.4	89.4	0	-	1023
9	105	46.5	8.1	73.6	6.6	89.0	2	SSE	1023
10	128	46.3	7.2	68.5	6.6	99.8	4	S	1023
11	146	44.1	6.5	63.0	7.8	111.9	5	SSE	1023
12	187	44.9	4.9	79.1	7.8	119.1	7	S	1023
13	180	58.2	4.2	91.6	3.6	123.2	8	S	1023
14	187	76.3	3.7	125.6	4.2	119.5	11	S	1023
15	169	115.0	4.2	208.7	3.9	108.1	13	S	1022
16	155	127.0	4.4	188.2	4.2	90.1	12	S	1022
17	146	121.6	4.8	160.0	5.1	69.9	10	S	1022
18	154	120.4	4.7	197.8	5.4	51.0	10	SW	1023
19	155	103.0	4.7	138.1	4.8	40.5	4	WSW	1024
20	152	102.9	4.8	150.5	4.5	39.5	4	WSW	1024
21	161	107.6	4.3	197.4	4.2	46.6	3	WSW	1024
22	139	99.7	4.7	200.0	4.2	60.9	2	W	1024
23	153	82.0	4.5	117.2	5.1	82.7	2	W	1024

HOUR	WAVE NUMBER	19/9		04 23		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	164	67.1	4.3	98.9	5.7	108.7	3	W	1024
1	166	64.4	4.2	101.4	3.6	129.4	2	WSW	1024
2	167	54.2	4.3	90.1	4.2	142.1	3	WSW	1024
3	187	62.9	3.8	97.8	3.9	142.5	3	WSW	1024
4	183	75.7	3.9	129.3	4.2	130.6	4	W	1024
5	186	73.4	3.9	103.6	3.9	113.8	4	WSW	1024
6	169	79.7	4.2	140.6	4.5	92.2	0	-	1024
7	165	78.3	4.3	124.1	3.9	73.6	0	-	1024
8	179	81.0	4.0	123.4	3.3	61.6	6	SW	1024
9	168	76.3	4.1	110.2	3.6	59.3	9	SSW	1024
10	183	91.7	3.7	176.1	3.3	66.7	11	SSW	1024
11	177	91.5	4.1	142.8	3.6	83.5	11	SSW	1024
12	183	90.4	4.0	120.1	4.2	101.8	12	SSW	1023
13	174	104.4	4.1	162.6	4.5	116.6	12	SW	1022
14	171	94.4	4.2	137.7	4.2	125.3	11	SSW	1021
15	159	111.8	4.5	156.4	5.7	125.7	9	SSW	1021
16	153	124.7	4.7	234.4	4.2	114.3	10	SSW	1020
17	150	130.6	4.9	248.3	5.7	92.4	9	SSW	1020
18	141	143.5	4.8	230.0	4.2	70.1	10	SW	1020
19	145	132.5	5.0	229.6	4.5	49.2	10	SW	1021
20	154	132.2	4.8	221.9	3.6	34.5	10	SSW	1021
21	159	119.7	4.7	197.0	4.5	35.2	10	SSW	1021
22	156	132.3	4.7	294.8	5.4	41.4	12	SW	1020
23	160	128.9	4.4	182.7	4.2	60.7	11	SSW	1020

HOUR	WAVE NUMBER	19/9		04 24		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	167	108.6	4.6	191.9	4.2	90.3	13	SSW	1019
1	158	116.5	4.6	193.0	3.9	117.5	9	SSW	1019
2	155	129.2	4.5	203.6	4.2	136.8	9	SSW	1019
3	164	121.3	4.3	200.7	4.2	148.1	10	SSW	1018
4	160	121.3	4.6	189.7	5.4	143.9	13	SSW	1017
5	152	130.1	4.7	183.8	4.2	126.7	13	SSW	1017
6	162	126.9	4.7	200.0	4.2	100.9	12	SSW	1017
7	164	130.2	4.6	213.1	3.9	75.6	10	SSW	1017
8	165	118.7	4.5	200.0	4.2	51.2	10	SSW	1017
9	158	122.0	4.8	178.3	5.1	40.4	10	SSW	1017
10	154	119.6	4.8	188.6	5.7	42.7	8	SSW	1016
11	151	135.9	4.8	238.4	5.1	56.1	9	SSW	1016
12	150	135.4	4.8	225.6	3.6	81.6	11	SSW	1014
13	145	132.9	5.0	227.4	5.7	107.1	10	SSW	1014
14	153	124.4	5.0	219.0	5.1	131.7	10	SSW	1013
15	150	140.5	5.0	251.2	4.8	144.3	12	SW	1012
16	144	146.0	5.2	263.7	5.1	144.3	15	SW	1011
17	143	143.5	5.0	206.5	5.4	128.9	14	SSW	1011
18	149	135.3	4.8	204.0	6.3	108.5	11	S	1011
19	146	128.0	5.0	271.7	5.1	82.1	7	SSW	1012
20							6	SSW	1012
21	151	120.9	4.9	177.2	3.9	46.6	7	S	1012
22	150	135.7	4.9	248.7	4.5	49.0	7	S	1011
23	131	138.5	5.1	242.1	5.4	60.7	10	S	1010

HOUR	WAVE NUMBER	19/9		04 25		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	140	135.1	5.1	178.3	6.3	84.8	12	SSW	1010
1	157	123.2	4.9	193.4	5.4	114.3	12	SSW	1009
2	154	124.6	4.8	189.3	5.1	142.5	12	SSW	1009
3	150	122.4	4.8	200.0	3.6	160.4	12	SSW	1008
4	152	123.5	4.9	227.4	4.8	164.1	9	SW	1008
5	147	112.4	5.1	190.4	5.1	152.2	5	WSW	1008
6	141	106.1	5.3	171.8	5.4	127.3	2	SW	1009
7	147	89.8	5.2	143.6	5.4	95.4	0	-	1009
8	125	111.8	6.1	149.0	6.9	62.5	0	-	1010
9	134	93.6	5.7	140.6	5.4	37.2	2	ESE	1011
10	136	95.1	5.6	156.0	4.8	31.7	1	SE	1011
11	133	93.8	5.8	130.7	6.3	42.3	1	SSE	1011
12	134	91.9	6.1	150.9	6.6	62.1	2	S	1010
13	118	95.1	6.4	161.5	6.3	92.7	2	S	1010
14	137	70.6	5.9	106.2	5.4	127.4	2	SW	1010
15	128	84.8	6.7	138.8	6.9	149.4	2	SW	1009
16	125	84.2	6.8	138.1	6.0	161.6	3	ESE	1009
17	114	85.5	6.9	128.2	5.7	161.8	3	E	1009
18	112	82.8	7.4	109.1	7.8	143.4	1	NE	1010
19	98	84.7	7.2	147.9	9.3	113.6	2	E	1010
20	117	84.3	6.7	112.1	6.6	86.4	4	NE	1010
21	118	78.3	7.1	117.9	8.7	63.9	5	NE	1011
22	120	73.7	7.3	128.2	7.2	54.7	5	NNE	1011
23	134	78.0	7.2	121.2	7.5	58.1	6	NNE	1011

HOUR	WAVE NUMBER	19/9		04 26		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	128	66.6	7.2	127.8	7.8	76.5	6	NNE	1011
1	123	62.7	7.1	98.9	7.2	104.6	6	NNE	1011
2	130	58.6	7.6	91.6	8.1	132.9	6	NNE	1011
3	157	48.3	6.8	89.7	7.8	156.6	6	NNE	1011
4	174	39.9	5.6	73.6	6.9	167.8	7	NNE	1011
5	169	40.9	6.3	87.2	6.9	162.3	6	NNE	1011
6	148	36.9	6.9	67.0	7.5	143.2	5	NNE	1012
7	146	39.7	7.0	74.7	8.4	109.6	5	NNE	1012
8	151	41.8	6.8	65.2	9.0	73.1	6	NNE	1012
9	110	58.9	8.3	87.5	9.0	38.2	5	NNE	1013
10	130	48.1	7.5	86.8	9.0	17.2	4	NNE	1014
11	135	53.8	7.7	95.9	8.4	18.1	6	NNE	1013
12	126	46.9	7.9	81.3	8.4	34.9	4	NNE	1013
13	127	47.0	8.2	86.4	8.4	63.5	5	NE	1013
14	129	50.8	7.7	72.5	9.3	100.4	5	NNE	1013
15	148	43.6	6.8	97.4	7.5	134.0	3	NE	1012
16	176	44.4	5.6	85.0	7.8	160.0	5	NE	1012
17	148	42.4	6.9	60.1	7.5	168.0	5	NE	1012
18	150	45.9	7.1	97.0	7.2	160.7	5	N	1012
19	138	39.3	7.1	62.3	9.0	138.8	6	N	1012
20	155	32.2	6.9	50.5	8.1	112.7	5	NNE	1012
21	156	26.8	6.3	44.7	7.8	86.7	5	N	1011
22	181	29.7	5.7	51.3	8.1	68.9	6	N	1011
23	161	33.0	5.9	54.9	9.3	64.8	7	N	1009

HOUR	WAVE NUMBER	19/9		04 27		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	186	33.4	5.3	64.8	7.8	75.0	8	N	1008
1	230	28.2	3.9	54.6	8.7	96.6	7	N	1006
2	212	31.5	4.6	56.0	9.9	124.3	8	N	1004
3	182	35.9	5.1	68.5	8.1	153.8	8	N	1002
4	226	31.5	3.9	52.4	9.9	172.2	8	N	1002
5	239	29.5	3.8	53.1	7.5	176.5	10	N	1000
6	271	23.1	3.1	43.9	1.5	161.2	7	N	1001
7	216	23.4	3.9	48.7	9.6	134.5	7	N	1000
8	210	25.4	4.0	53.8	9.3	96.3	7	N	1000
9	211	22.3	4.5	43.9	7.5	57.9	6	N	1000
10	180	20.0	5.7	39.2	9.0	31.9	5	N	1000
11	223	22.1	4.1	39.9	9.6	19.1	6	N	1000
12	200	27.6	5.2	65.9	8.4	25.8	6	N	1000
13	163	28.5	6.4	57.1	9.0	52.0	5	NNE	1000
14	116	37.0	7.8	52.0	7.8	86.2	2	N	1001
15	92	40.5	7.4	62.3	8.7	127.1	2	NNW	1001
16	114	33.6	8.0	57.5	8.1	157.5	1	NW	1002
17	98	42.6	8.1	62.3	7.8	179.3	0	-	1002
18	94	49.4	8.0	95.9	7.8	185.5	2	NNE	1003
19	115	50.8	8.0	83.9	8.7	173.6	2	NNE	1005
20	113	57.2	7.8	93.0	8.1	152.4	3	NNE	1007
21	99	73.9	7.9	105.1	7.5	123.7	0	-	1008
22	95	68.6	8.1	103.3	7.5	98.9	1	N	1009
23	93	64.1	7.8	81.3	6.9	85.5	2	NNE	1010

HOUR	WAVE NUMBER	19/9		04 28		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	120	54.4	7.6	93.8	9.3	86.0	3	N	1011
1	108	66.4	7.8	96.7	9.6	99.8	2	NNE	1012
2	112	49.2	7.3	79.1	8.1	122.7	0	-	1012
3	120	51.2	7.6	79.8	7.8	146.2	2	NNE	1013
4	123	54.7	7.2	86.1	9.3	167.3	2	NNW	1014
5	134	55.2	7.4	70.7	8.1	175.2	0	-	1016
6	145	44.7	7.0	80.2	9.0	168.1	3	NNE	1017
7	130	45.2	7.6	83.1	9.3	145.7	3	NNE	1017
8	144	49.9	7.0	75.4	8.7	109.6	1	NE	1018
9	139	52.1	6.7	79.8	9.0	69.4	2	NE	1019
10	144	46.4	6.3	86.4	7.2	33.8	3	E	1020
11	126	54.9	7.7	93.0	9.0	9.6	0	-	1020
12	114	46.1	7.8	57.9	8.1	0.7	2	SW	1019
13	124	42.3	7.5	59.7	7.8	14.9	3	W	1019
14	110	41.3	7.7	66.7	8.4	41.8	2	W	1019
15	107	42.3	8.4	68.1	8.1	80.7	2	WSW	1019
16	118	40.7	7.6	74.7	9.0	116.1	3	SW	1019
17	123	38.2	7.0	56.0	9.0	144.1	0	-	1019
18	134	38.8	6.7	56.4	7.5	160.0	0	-	1020
19	137	40.7	6.6	53.1	4.8	161.8	0	-	1020
20	129	44.0	6.7	65.9	7.2	147.4	2	N	1021
21	134	42.7	6.5	64.8	7.2	126.2	3	N	1021
22	131	40.1	6.8	72.5	9.0	100.7	3	N	1021
23	137	34.9	6.7	52.0	9.0	79.1	2	N	1021

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HOUR	WAVE NUMBER	1979		04		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	127	35.1	7.0	58.6	7.2	77.5	3	NNW	1021
1	130	38.5	7.4	62.3	8.4	83.9	3	N	1020
2	128	43.4	7.2	67.4	8.4	101.1	4	N	1020
3	126	48.7	6.8	67.7	7.8	125.5	4	N	1020
4	141	43.9	6.6	62.6	7.8	148.9	5	N	1020
5	131	43.3	7.0	54.6	9.3	161.8	5	N	1019
6	144	41.9	6.8	77.3	6.9	165.8	6	N	1020
7	153	40.3	6.5	59.3	6.6	151.0	6	NNE	1020
8	149	46.2	6.3	72.1	6.9	124.6	6	NNE	1020
9	135	43.6	6.4	71.8	6.9	85.1	5	NNE	1020
10	114	40.6	6.8	63.7	6.3	47.4	3	ENE	1020
11	107	46.6	7.7	66.3	9.0	18.1	4	SE	1019
12	117	41.5	7.0	68.1	6.3	-0.9	4	SSE	1018
13	131	43.9	6.6	72.5	5.4	4.1	7	S	1018
14	147	51.7	6.5	101.1	6.3	22.3	5	S	1018
15	175	64.2	4.5	108.4	5.7	50.1	4	SW	1016
16	168	66.2	4.9	120.5	5.7	88.3	8	S	1016
17	167	60.8	5.4	90.1	5.1	123.2	7	S	1015
18	171	82.4	4.3	156.7	4.5	148.3	7	S	1016
19	162	93.8	4.5	140.6	4.2	156.6	7	S	1016
20	164	78.6	4.5	122.3	4.8	153.6	8	SW	1016
21	173	81.0	4.4	128.9	5.1	138.1	8	SSW	1015
22	175	70.6	4.8	122.3	5.4	115.2	10	SSW	1015
23	158	71.3	5.3	111.0	4.8	96.8	6	S	1015

HOUR	WAVE NUMBER	1979		04		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	182	73.5	4.3	115.7	4.5	84.8	7	S	1014
1	177	76.7	4.5	112.1	7.2	84.8	8	SSW	1013
2	184	66.3	4.6	112.1	4.8	95.6	8	SSW	1012
3	158	62.6	5.3	117.9	6.3	114.5	7	S	1012
4	157	79.9	5.1	146.5	5.1	138.8	10	S	1010
5	155	83.7	5.7	137.0	6.6	155.4	10	SSW	1010
6	166	96.1	4.9	136.2	6.6	165.3	11	SW	1009
7	158	105.1	5.1	195.2	5.1	157.2	10	SSW	1008
8	161	98.8	5.3	145.8	4.2	139.1	9	SSW	1007
9	143	107.1	5.3	151.2	5.4	107.1	8	SSW	1007
10	128	104.6	5.9	166.3	5.7	73.5	6	SSW	1006
11	130	126.1	5.7	215.7	4.8	41.1	6	SSW	1005
12	131	150.9	5.4	210.6	4.8	18.6	8	S	1003
13	128	170.5	5.5	226.7	5.4	8.8	10	SSW	1002
14	129	191.2	6.0	290.0	6.0	20.9	9	S	1001
15	128	181.3	5.9	321.9	6.3	39.3	10	SSE	1000
16	117	185.3	6.5	335.4	5.7	70.1	5	N	1001
17	107	156.4	6.5	242.8	6.0	106.6	5	NNE	1002
18	106	154.5	6.7	234.0	7.2	134.0	4	NNE	1003
19	102	139.7	7.0	203.2	6.6	152.9	0	-	1005
20	96	147.9	7.3	227.8	6.0	155.4	0	-	1006
21	111	107.7	7.0	133.3	6.9	148.0	0	-	1007
22	102	130.0	7.2	193.7	7.2	131.7	0	-	1007
23	120	99.1	6.2	165.2	6.6	113.3	0	-	1008

HOUR	WAVE NUMBER	1979		05		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	120	111.6	6.2	154.5	6.6	98.1	0	-	1008
1	116	98.6	6.2	151.6	5.1	92.0	3	N	1008
2	122	95.0	5.8	140.6	4.8	94.5	3	N	1009
3	124	75.7	5.9	113.9	5.7	107.3	3	N	1009
4	137	69.3	5.5	94.5	6.0	126.9	4	NNW	1009
5	123	77.0	5.7	129.3	7.5	142.7	2	NNW	1009
6	124	69.8	6.5	111.3	6.3	151.5	0	-	1010
7	117	68.5	7.0	109.5	6.9	156.1	2	NNW	1010
8	109	71.1	7.1	113.5	6.9	139.5	1	S	1011
9	115	64.4	6.9	83.5	8.4	117.0	2	SSE	1010
10	98	73.2	7.2	102.9	7.2	87.8	2	SSE	1010
11	133	61.2	6.3	101.8	7.2	58.6	4	SE	1010
12	131	58.3	6.5	80.6	8.1	30.8	1	S	1009
13	122	61.4	6.9	89.4	7.2	16.5	6	S	1009
14	169	74.9	4.8	128.9	3.9	12.0	7	SW	1008
15	167	100.9	4.7	167.7	3.9	22.5	7	SW	1008
16	161	97.5	4.8	140.6	4.5	47.3	9	SW	1008
17	149	120.1	5.0	208.7	4.2	73.5	6	WSW	1009
18	143	104.4	5.4	159.7	5.1	104.4	5	W	1009
19	155	92.8	5.0	122.7	4.8	126.0	6	W	1010
20	157	81.3	5.2	147.9	5.7	139.1	6	WNW	1011
21	150	70.1	5.1	129.6	5.7	137.5	4	NNW	1012
22	125	73.4	5.8	133.3	5.4	130.4	4	N	1012
23	142	66.1	5.6	103.3	5.4	118.4	6	N	1012

HOUR	WAVE NUMBER	1979		05		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	139	55.0	5.7	80.6	6.0	102.3	6	N	1012
1	143	46.8	5.8	72.5	7.8	97.0	5	N	1012
2	149	39.5	6.1	75.4	5.1	93.3	5	N	1012
3	142	40.3	6.5	73.6	6.0	98.4	4	N	1012
4	157	36.8	6.1	57.9	6.0	107.8	4	N	1012
5	159	32.2	6.1	58.6	6.3	121.8	4	NNE	1012
6	170	33.4	6.0	52.7	5.7	133.6	5	N	1013
7	145	34.6	6.7	54.9	6.3	138.8	5	N	1013
8	157	30.6	6.2	52.0	6.9	135.4	6	N	1013
9	167	30.6	6.1	52.7	7.2	120.5	4	N	1013
10	182	28.7	5.6	58.6	6.9	101.4	6	N	1012
11	171	25.9	6.0	47.6	5.7	74.9	5	NNE	1012
12	147	28.7	6.6	41.7	7.5	49.7	5	NNE	1012
13	154	29.3	6.6	52.0	7.2	30.6	5	N	1012
14	159	31.0	6.2	56.4	7.2	20.2	5	NNE	1011
15	148	28.1	6.7	45.4	8.7	23.0	4	NE	1011
16	145	29.2	6.7	43.6	7.2	35.4	4	N	1011
17	160	26.9	6.3	44.3	8.4	58.2	4	NNE	1011
18	134	31.2	6.8	56.0	8.4	80.2	2	N	1011
19	127	27.8	7.2	45.4	8.1	103.9	0	-	1012
20	111	30.2	6.7	49.4	6.0	120.4	2	NNW	1012
21	121	24.4	6.8	41.0	6.9	127.6	0	-	1013
22	134	25.0	6.5	42.5	7.5	126.2	3	N	1013
23	156	24.3	6.3	38.1	6.6	118.2	3	N	1014

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HOUR	WAVE NUMBER	19/9		05 03		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	152	20.3	6.2	42.5	5.7	109.0	3	N	1014
1	121	26.3	7.1	43.9	6.9	99.7	0	-	1014
2	121	27.6	6.7	34.8	6.3	91.3	2	N	1014
3	143	26.8	6.8	46.9	8.1	92.4	3	N	1014
4	118	30.9	7.2	41.4	7.5	98.8	2	N	1014
5	138	32.1	6.8	54.2	7.5	107.1	3	N	1015
6	140	40.6	6.2	64.1	5.4	117.0	4	N	1016
7	135	39.2	6.5	58.2	6.0	123.5	3	N	1017
8	141	42.4	6.9	71.4	7.2	122.3	5	NE	1017
9	153	40.8	6.5	64.5	7.5	115.2	5	NE	1018
10	165	36.8	5.7	82.0	7.2	100.4	5	NE	1018
11	151	38.7	6.4	56.0	6.9	82.0	5	NE	1017
12	172	31.5	5.6	43.6	7.2	62.5	4	E	1017
13	168	38.7	5.7	68.5	7.2	41.6	7	SE	1017
14	161	39.6	5.7	67.0	6.9	29.0	6	SE	1017
15	180	37.6	5.4	67.0	6.0	22.8	5	SW	1018
16	185	42.8	5.0	71.8	7.5	26.2	7	SSW	1019
17	191	50.7	4.3	83.1	5.7	35.9	7	S	1020
18	174	54.9	4.7	82.8	3.3	56.5	6	S	1020
19	184	55.3	4.5	101.4	6.0	76.1	6	SSE	1021
20	183	55.4	4.3	87.2	4.2	90.8	5	S	1022
21	173	55.3	4.4	82.0	3.3	105.3	5	SSW	1022
22	172	52.8	5.0	85.0	6.3	112.2	3	SW	1022
23	153	48.3	5.4	104.4	6.0	109.9	2	SW	1022

HOUR	WAVE NUMBER	19/9		05 04		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	142	45.5	5.6	63.0	6.3	103.2	2	N	1022
1	151	40.8	5.6	61.2	5.7	96.5	3	NNW	1022
2	149	38.9	5.5	57.9	5.4	89.9	3	N	1023
3	142	36.2	5.8	52.7	8.1	85.5	3	NNW	1024
4	160	36.1	6.2	77.6	6.3	84.6	3	N	1024
5	155	32.8	5.7	55.7	5.1	90.6	4	N	1024
6	152	31.5	6.5	47.6	6.6	93.5	4	N	1025
7	161	31.7	6.0	48.3	5.1	97.9	4	N	1025
8	173	30.8	6.0	54.6	7.8	103.5	4	N	1025
9	124	34.6	7.1	51.3	6.6	100.2	4	NNE	1025
10	114	34.2	7.1	48.0	6.9	94.0	3	SE	1025
11	112	40.0	7.0	66.3	8.1	84.6	2	S	1024
12	122	31.3	6.6	45.4	8.1	71.2	3	SSW	1024
13	132	31.2	6.9	47.2	6.6	57.0	4	SSW	1023
14	158	33.6	6.2	53.5	6.6	44.1	5	S	1023
15	203	33.3	4.5	61.5	4.8	30.8	6	S	1023
16	212	47.2	3.6	84.6	5.7	27.3	7	SSW	1023
17	191	48.5	3.9	81.7	7.5	30.3	7	SSW	1023
18	191	46.5	3.9	67.0	6.0	42.7	6	SSW	1023
19	179	44.9	4.5	104.7	3.9	58.1	7	SSW	1024
20	166	42.2	5.2	65.9	5.1	73.6	4	S	1025
21	152	47.1	5.6	72.9	6.3	89.9	0	-	1025
22	165	39.6	5.1	66.3	6.9	101.8	0	-	1025
23	143	43.2	6.2	72.5	6.6	107.4	0	-	1025

HOUR	WAVE NUMBER	1979		05 05		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	122	46.2	6.5	67.0	6.3	108.5	2	N	1025
1	125	46.5	6.1	74.3	6.3	106.7	3	N	1024
2	122	54.5	6.3	83.9	6.3	100.0	4	N	1024
3	132	52.7	6.3	85.3	7.2	90.3	4	N	1024
4	133	50.0	6.5	84.2	6.6	86.2	4	N	1025
5	126	55.4	6.7	90.5	6.0	84.1	4	N	1025
6	127	54.8	6.9	80.2	6.0	82.7	4	N	1025
7	117	61.1	6.7	109.5	6.3	84.3	3	N	1026
8	132	54.1	6.7	75.8	6.3	88.7	4	NE	1026
9	122	53.0	6.2	79.1	6.0	91.3	3	NE	1026
10	130	50.4	6.2	75.8	7.5	91.2	4	SE	1026
11	122	49.6	6.6	65.9	5.4	89.6	3	SSE	1025
12	113	50.6	6.4	75.8	7.2	85.8	5	SSE	1025
13	143	49.7	6.2	71.0	6.6	75.8	4	SW	1025
14	139	52.6	6.3	83.9	6.3	64.1	5	SSW	1024
15	157	49.4	6.0	77.6	7.2	51.2	5	S	1024
16	146	62.5	6.2	98.1	6.3	42.1	7	S	1024
17	123	63.0	6.5	109.1	6.6	37.0	5	SSW	1024
18	128	68.3	6.5	123.4	6.0	38.6	5	SW	1025
19	122	59.9	6.5	91.2	6.6	46.0	4	SW	1025
20	124	64.2	7.0	136.6	6.3	59.5	3	WSW	1026
21	127	74.4	6.9	125.6	6.9	75.8	0	-	1027
22	117	79.9	7.0	108.4	7.5	90.3	1	W	1027
23	109	74.2	7.6	115.0	6.9	101.1	2	W	1027

HOUR	WAVE NUMBER	1979		05 06		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	111	74.6	7.2	108.0	6.6	109.6	1	W	1027
1	121	72.0	7.4	105.5	7.8	110.8	1	W	1027
2	108	80.7	8.0	117.9	8.4	107.6	0	-	1026
3	98	90.4	7.9	147.9	7.8	100.0	0	-	1026
4	97	78.3	8.0	122.3	7.8	92.0	0	-	1026
5	103	74.4	7.6	104.7	7.2	80.5	0	-	1026
6	101	73.4	7.8	108.0	6.9	74.3	2	N	1026
7	93	83.0	8.1	129.3	8.4	69.4	0	-	1026
8	93	83.1	8.0	135.5	7.8	69.6	2	SSW	1027
9	92	89.1	8.1	141.0	8.1	73.1	4	SSE	1026
10	92	97.9	8.4	142.5	7.2	81.2	5	S	1026
11	109	102.7	7.9	143.6	7.5	84.8	6	S	1026
12	109	106.7	8.5	159.7	7.2	86.7	7	S	1025
13	116	119.0	8.0	191.9	8.4	83.7	8	S	1025
14	115	118.0	7.7	188.2	8.7	78.2	9	S	1024
15	115	120.7	7.9	176.9	7.5	71.0	9	S	1024
16	120	110.6	7.4	208.4	11.1	60.5	8	S	1023
17	100	139.0	8.8	198.1	9.9	48.5	8	S	1024
18	113	138.0	8.2	209.1	8.1	39.5	10	S	1024
19	111	139.8	7.8	257.1	9.0	38.9	10	S	1024
20	98	143.7	8.5	233.6	9.9	45.0	9	S	1024
21	111	145.5	8.3	213.5	9.6	59.8	9	S	1024
22	103	135.3	8.1	213.1	9.6	74.9	9	S	1024
23	122	110.7	7.1	163.7	10.5	91.9	6	SW	1024

HOUR	WAVE NUMBER	19/9		05		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	112	113.2	7.6	166.6	9.0	104.8	6	SW	1024
1	104	118.0	7.9	204.3	9.6	113.1	3	SW	1023
2	94	119.7	8.6	167.7	7.8	114.2	4	SW	1023
3	87	115.7	9.0	171.4	10.5	107.4	3	WSW	1023
4	87	121.6	9.6	216.4	9.0	99.1	2	WSW	1022
5	85	114.4	9.7	151.2	8.7	84.1	1	WSW	1022
6	98	98.1	8.9	143.6	9.0	70.1	0	-	1022
7	103	99.6	8.6	200.3	9.6	61.1	3	SSW	1022
8	103	95.4	8.7	147.2	8.7	55.0	6	S	1022
9	94	103.3	9.0	168.5	8.1	58.1	7	S	1022
10	86	115.6	9.5	166.6	10.5	65.0	7	SSE	1022
11	96	113.8	9.1	167.4	10.5	80.0	9	S	1020
12	99	112.3	9.0	152.3	9.3	87.6	9	S	1020
13	116	122.2	8.1	200.0	10.5	96.8	9	S	1019
14	134	111.1	6.5	203.2	8.4	99.8	10	S	1018
15	110	122.4	8.0	208.4	9.3	93.6	9	S	1017
16	133	105.8	6.3	154.2	8.7	85.7	9	S	1017
17	117	128.3	7.9	199.2	7.5	71.3	8	SSW	1017
18	117	122.2	7.8	176.5	10.2	58.4	9	SSW	1017
19	116	100.9	7.6	180.2	9.9	46.7	5	SSW	1017
20	117	94.5	7.2	142.8	9.0	50.1	6	SW	1017
21	97	111.4	8.1	176.1	8.7	53.8	4	SW	1016
22	101	118.0	8.7	208.7	8.7	70.4	6	SSW	1016
23	91	121.6	8.5	169.2	8.1	90.6	1	WSW	1015

HOUR	WAVE NUMBER	19/9		05		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	101	102.7	8.0	137.7	9.6	110.1	0	-	1014
1	96	108.8	8.5	161.9	9.9	123.2	0	-	1013
2	97	119.1	8.3	180.5	8.1	129.4	0	-	1013
3	101	120.5	7.4	171.0	8.4	130.3	0	-	1012
4	118	112.8	6.8	154.5	6.0	117.7	1	NW	1011
5	98	97.9	7.8	146.9	7.5	102.3	2	NW	1010
6	106	99.7	7.5	186.0	7.8	81.6	3	N	1010
7	99	107.5	8.6	220.1	7.8	66.9	4	N	1009
8	96	107.6	8.3	154.2	7.2	55.0	4	N	1009
9	92	120.3	8.2	190.8	9.3	54.2	2	N	1008
10	92	140.0	8.1	241.0	8.4	62.1	0	-	1007
11	105	164.9	7.4	242.1	9.3	78.1	5	SW	1006
12	104	170.4	7.8	254.9	8.7	95.6	9	S	1005
13	109	181.4	7.1	252.7	6.0	112.6	10	S	1004
14	108	199.0	7.2	286.0	6.6	124.8	11	S	1003
15	110	198.3	6.9	282.0	7.8	128.0	11	S	1002
16	105	225.7	6.9	315.7	6.6	120.4	13	SSE	1000
17	108	234.0	7.3	325.6	6.0	107.8	12	S	1000
18	102	256.9	7.4	369.9	7.2	85.8	13	S	1000
19	102	258.9	7.3	382.7	6.6	73.6	10	S	999
20	96	265.7	7.8	357.1	7.2	66.7	8	S	999
21	101	270.6	7.7	358.2	7.8	66.7	10	S	998
22	95	242.1	8.4	375.7	8.7	72.4	4	SSW	998
23	81	240.6	8.9	286.4	8.1	93.8	4	N	998

HOUR	WAVE NUMBER	1979		05 09		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	97	194.0	9.4	270.6	9.3	113.6	3	N	999
1	76	218.2	9.3	327.4	10.2	135.8	2	N	998
2	75	197.2	9.6	264.4	7.8	151.5	2	N	998
3	74	193.3	9.8	265.9	9.3	150.6	3	N	998
4	79	164.0	9.0	249.8	7.8	144.1	1	N	999
5	77	177.5	9.4	228.9	10.8	129.7	2	N	999
6	77	171.2	9.4	247.6	8.1	104.8	2	N	1000
7	74	194.5	9.6	307.3	9.3	75.0	1	N	1001
8	78	163.3	9.7	238.0	8.4	56.1	2	SE	1001
9	71	173.2	9.0	247.6	8.1	44.8	4	NE	1001
10							3	SW	1002
11							5	SSW	1002
12							4	SSW	1001
13							5	SW	1001
14	85	135.5	8.8	189.0	9.0	131.7	4	SW	1001
15	92	128.5	8.9	190.8	8.1	144.6	5	SSW	1001
16	95	125.0	8.7	228.9	9.3	147.3	6	S	1001
17	94	128.9	8.8	222.3	9.3	135.6	4	S	1002
18	101	126.3	8.6	202.1	9.6	115.4	4	S	1002
19	82	128.3	9.6	186.0	8.7	93.3	0	-	1003
20	87	130.6	9.1	180.9	9.9	74.7	1	NE	1003
21	77	144.9	9.4	204.7	7.8	64.4	2	NE	1004
22	83	114.4	8.8	180.5	8.4	63.5	2	N	1004
23	84	126.4	8.9	197.8	8.1	79.1	3	NNE	1004

HOUR	WAVE NUMBER	1979		05 10		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	78	104.3	8.7	142.8	8.7	102.3	4	NNE	1005
1	96	116.1	8.9	163.7	8.1	126.9	5	NNE	1005
2	95	117.5	9.3	192.3	7.8	147.4	5	NNE	1005
3	83	128.0	9.0	181.6	9.0	155.6	5	NNE	1006
4	89	103.4	9.1	123.8	7.8	152.0	5	NNE	1006
5	91	100.1	8.9	168.1	9.6	134.7	4	NNE	1007
6	82	99.0	9.1	131.1	9.0	108.7	4	N	1007
7	84	90.1	8.7	126.3	7.8	79.8	3	NNW	1008
8	80	83.3	9.2	116.1	10.2	49.0	4	N	1008
9	83	87.4	8.7	136.2	9.6	31.9	2	N	1008
10	88	91.0	8.9	159.3	9.0	28.7	1	E	1007
11	91	89.2	9.0	161.1	8.7	37.9	4	S	1007
12	98	81.7	8.9	144.7	9.0	60.2	5	S	1007
13	89	102.7	8.5	165.5	8.4	89.4	5	S	1007
14	99	95.3	8.7	149.8	8.4	119.5	6	S	1007
15	107	85.1	8.8	135.5	7.5	142.0	6	S	1006
16	129	88.6	7.6	167.4	8.4	150.4	6	S	1006
17	133	80.5	7.1	129.6	7.5	148.1	4	S	1005
18	150	73.8	6.3	135.9	7.2	135.1	7	S	1005
19	139	69.6	6.4	105.8	7.5	109.6	5	S	1005
20	127	68.9	7.5	102.5	9.9	87.1	0	-	1005
21	106	74.4	8.5	100.3	7.8	74.2	1	NW	1005
22	105	79.5	8.5	105.8	8.7	66.6	3	NW	1006
23	105	80.2	8.2	113.9	9.0	74.9	2	N	1006

HOUR	WAVE NUMBER	19/9		05 11		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	104	78.6	8.0	147.9	8.7	94.7	4	NNE	1005
1	106	84.7	8.9	112.1	9.3	118.2	6	N	1006
2	122	60.2	8.3	92.7	8.1	143.0	5	N	1006
3	103	71.9	8.5	105.5	8.1	159.7	4	NNE	1006
4	102	64.0	8.9	95.9	9.3	162.5	4	NNE	1007
5	90	65.7	8.9	97.8	9.3	153.1	2	N	1007
6	92	66.3	8.6	111.3	8.7	128.3	2	N	1008
7	115	52.0	8.0	87.2	8.7	95.4	2	NW	1008
8	78	68.5	8.5	86.1	6.9	60.7	1	N	1008
9	99	60.8	8.0	93.0	8.7	33.6	3	SW	1008
10	116	47.0	7.2	83.1	8.4	19.1	5	S	1008
11	127	53.9	7.5	78.4	9.6	22.1	5	SSW	1007
12	130	56.4	7.1	104.0	7.5	43.0	4	SSW	1007
13	147	57.4	6.4	116.8	8.7	71.5	6	S	1006
14	148	61.6	6.5	117.9	8.1	104.8	6	S	1005
15	154	61.3	6.0	103.6	9.0	135.2	4	S	1004
16	159	73.7	5.3	116.1	3.3	157.7	4	SSE	1004
17	167	80.6	4.5	119.8	7.2	165.3	9	SE	1003
18	171	80.8	4.7	164.4	3.9	157.2	3	S	1002
19	169	61.7	4.5	93.8	4.2	139.3	4	W	1002
20	169	78.0	4.4	119.0	3.6	114.9	6	WSW	1003
21	153	101.9	4.7	204.0	4.5	93.3	7	W	1003
22	147	103.2	5.1	137.0	5.7	76.6	6	W	1003
23	144	82.8	5.0	134.4	4.5	77.2	2	N	1004

HOUR	WAVE NUMBER	19/9		05 12		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	139	74.0	5.6	95.2	6.3	90.8	1	N	1003
1	125	67.8	6.0	107.3	6.0	112.2	3	N	1003
2	116	66.3	7.1	103.3	9.3	140.2	3	N	1003
3	118	61.6	7.2	90.1	9.6	161.1	3	N	1004
4	119	65.2	6.9	94.8	6.3	169.0	2	NE	1005
5	137	53.8	6.7	81.7	6.6	164.3	4	NE	1006
6	136	47.9	7.1	67.7	7.8	144.6	4	NNE	1007
7	197	44.6	5.0	81.7	7.2	113.1	9	N	1008
8	203	41.2	4.6	70.7	6.6	74.9	8	N	1009
9	216	36.4	3.9	60.1	6.6	40.0	9	N	1010
10	203	34.5	4.3	60.8	7.5	16.5	8	NNE	1010
11	173	35.9	5.7	62.3	6.9	9.7	6	NNE	1010
12	166	41.4	5.5	68.8	7.5	19.8	6	NE	1010
13	147	39.1	5.9	61.2	6.0	45.8	4	E	1010
14	159	43.2	5.8	83.9	5.7	79.8	7	SSE	1010
15	178	42.6	5.1	77.6	5.1	117.0	7	SSE	1010
16	175	44.6	5.2	69.9	7.2	146.4	8	S	1010
17	206	36.8	3.9	61.5	7.5	163.4	7	S	1011
18	193	40.5	4.7	69.2	5.4	166.4	5	S	1012
19	182	40.4	4.9	63.7	5.7	153.1	4	S	1013
20	169	41.8	4.9	65.6	4.5	128.9	3	S	1013
21	154	33.3	5.3	49.4	4.8	104.1	4	NNW	1014
22	150	34.1	6.6	60.1	9.6	82.0	3	N	1014
23	137	35.4	7.4	56.8	8.4	72.2	3	NNE	1015

HOUR	WAVE NUMBER	19/9		05 13		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	131	32.5	7.3	49.4	8.1	77.2	3	N	1015
1	131	41.9	6.7	73.6	5.7	93.3	4	N	1015
2	139	39.6	6.4	57.1	8.4	117.0	3	N	1015
3	146	37.5	6.6	55.3	7.8	141.6	4	N	1015
4	130	42.0	6.6	90.1	5.7	157.0	4	N	1016
5	133	35.4	7.4	59.0	7.8	160.2	4	N	1016
6	180	28.4	5.6	50.5	6.9	147.4	3	NNW	1017
7	177	24.8	5.6	48.3	9.0	120.9	4	N	1018
8	177	25.7	5.5	43.6	8.1	81.4	4	NNE	1018
9	179	22.8	5.7	38.1	7.8	42.8	4	NNE	1018
10	163	21.5	6.3	41.7	7.5	11.3	4	NE	1018
11	150	22.9	7.1	46.5	7.2	-7.4	5	SE	1018
12	176	27.0	5.6	42.8	10.2	-6.7	6	SE	1018
13	174	22.7	5.6	38.5	8.7	11.5	5	S	1017
14	183	27.9	5.2	54.2	8.1	41.6	4	SSW	1017
15	186	28.6	5.1	46.9	8.4	79.3	5	SW	1017
16	207	24.1	4.7	42.1	8.1	117.2	5	SSW	1017
17	195	29.0	4.9	51.3	7.8	144.1	5	SW	1016
18	193	29.3	4.8	52.4	8.4	159.1	4	SSW	1016
19	208	36.7	4.1	66.7	6.9	155.6	6	SSW	1016
20	196	41.6	3.8	78.0	2.4	139.5	6	S	1017
21	193	35.6	4.7	53.1	9.9	119.1	5	SW	1017
22	161	35.4	5.4	57.9	6.9	92.6	2	WSW	1016
23	176	30.6	4.7	49.1	9.0	76.1	2	SW	1016

HOUR	WAVE NUMBER	19/9		05 14		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	167	26.0	5.0	42.1	8.4	73.6	1	W	1016
1	146	26.9	6.1	39.6	6.9	85.0	0	-	1015
2	130	29.8	7.5	44.3	8.7	104.6	2	NE	1015
3	144	24.3	6.6	46.5	9.3	128.9	3	N	1015
4	147	26.0	7.5	47.6	9.0	150.6	3	NNE	1015
5	163	25.2	6.4	44.7	9.6	161.1	4	NNE	1015
6	169	26.6	5.8	65.9	7.8	156.3	5	NE	1015
7	161	25.4	6.5	53.8	8.1	136.5	4	NE	1015
8	147	26.6	6.6	43.2	8.4	105.8	5	N	1015
9	164	35.8	6.2	64.5	8.4	65.0	5	N	1014
10	124	85.2	5.7	137.0	5.1	28.1	4	N	1014
11	127	83.1	6.7	125.2	6.6	7.3	5	N	1012
12	111	87.7	6.8	120.5	6.0	-8.3	5	N	1012
13	112	107.0	7.0	147.6	6.9	-0.2	6	N	1010
14	106	99.3	6.8	164.1	7.5	24.4	5	N	1010
15	101	132.3	7.4	272.1	7.5	58.6	4	NNE	1009
16	89	184.4	8.3	248.3	8.1	95.2	5	NNE	1008
17	92	191.4	9.4	286.0	8.1	132.4	5	NNE	1007
18	73	257.1	9.6	391.1	8.7	150.8	5	N	1006
19	84	215.6	9.9	332.5	10.2	167.3	6	N	1005
20	72	292.3	11.2	446.8	12.0	166.6	7	N	1004
21	67	339.1	11.8	473.9	12.3	144.4	8	N	1003
22	52	489.6	12.8	734.3	12.0	114.7	6	N	1002
23	62	349.7	11.6	496.2	10.8	103.0	9	N	1000

HOUR	WAVE NUMBER	19/9		05 15		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	68	252.7	11.5	315.7	12.0	91.3	8	N	999
1	73	280.7	11.5	404.7	11.7	93.3	8	N	997
2	61	264.4	10.8	340.9	10.8	102.7	6	N	997
3	68	242.5	10.6	388.5	11.4	134.9	7	N	996
4	69	229.1	11.2	319.3	11.7	151.5	8	N	995
5	63	212.2	10.9	311.3	10.8	168.1	7	N	996
6	60	196.7	10.9	291.5	10.8	171.9	6	N	996
7	68	201.9	11.0	262.2	10.2	166.4	6	NNW	996
8	70	162.0	10.7	217.5	10.8	138.2	6	N	997
9	72	180.2	10.5	307.6	11.1	100.5	6	N	997
10	84	144.6	10.5	266.6	10.2	68.3	7	N	998
11	68	152.3	11.2	212.0	9.9	36.8	4	NNW	998
12	57	63.5	10.9	124.1	13.5	11.3	9	N	998
13	57	72.2	11.8	136.6	10.5	12.4	7	N	998
14	83	78.7	8.7	142.1	4.5	23.2	5	W	998
15	83	94.9	10.3	174.3	9.9	41.8	4	SW	999
16	84	98.4	9.4	146.9	8.4	77.0	8	N	1001
17	89	136.8	10.0	210.2	10.8	115.6	9	N	1002
18	87	144.8	10.2	193.7	9.9	143.7	7	N	1004
19	83	165.9	10.2	228.5	9.6	165.7	7	N	1005
20	93	138.4	9.8	213.9	9.3	167.6	7	N	1005
21	96	124.0	9.6	179.1	10.2	156.5	7	N	1005
22	73	119.9	10.0	168.1	9.0	140.2	5	NNE	1006
23	79	116.2	10.1	164.8	9.9	120.4	6	N	1007

HOUR	WAVE NUMBER	19/9		05 16		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	90	95.1	9.8	134.8	10.8	106.0	7	N	1007
1	82	98.5	10.2	127.8	9.9	95.8	7	NNE	1007
2	75	104.4	10.3	146.9	9.6	100.4	6	NNE	1007
3	79	103.6	9.6	142.5	8.7	111.9	6	NNE	1007
4	88	110.6	9.8	166.3	10.2	135.2	6	NNE	1007
5	102	89.8	9.3	154.2	9.3	151.3	5	NNE	1007
6	93	86.0	9.3	107.3	10.2	163.9	5	NNE	1008
7	91	97.5	9.5	165.9	9.3	162.1	5	NNE	1008
8	85	88.5	9.7	139.2	9.3	144.4	5	NNE	1008
9	101	69.5	9.2	116.1	9.9	122.0	4	NNE	1008
10	87	60.0	9.8	115.7	9.6	84.3	4	N	1008
11	62	41.7	10.3	59.3	10.2	53.6	2	N	1008
12	54	16.1	20.4	31.1	9.3	23.0	1	NE	1007
13	100	3.7	9.6	4.8	7.2	6.7	1	NE	1006
14	83	4.6	13.4	17.9	48.0	7.6	1	N	1006
15	63	17.5	13.0	38.1	9.3	21.1	1	N	1006
16	68	39.5	9.7	55.7	10.8	49.4	0	-	1006
17	86	59.0	9.0	72.1	7.8	80.7	2	N	1006
18	99	69.2	9.2	95.6	8.7	115.8	2	NNW	1006
19	94	73.3	9.3	120.8	8.4	138.4	2	N	1006
20	99	68.4	9.1	116.5	9.3	154.5	2	NW	1007
21	105	63.7	8.5	107.7	8.7	158.9	1	NW	1007
22	90	76.8	9.1	107.3	8.4	152.8	1	NW	1007
23	101	72.4	8.6	117.6	8.7	137.0	1	N	1007

HOUR	WAVE NUMBER	19/9		05		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	86	86.0	9.0	121.6	9.0	121.8	1	E	1006
1	94	79.1	8.6	109.1	9.3	109.7	1	ENE	1005
2	91	71.7	8.9	101.1	9.3	106.0	2	NW	1005
3	94	77.8	8.9	93.8	10.2	110.4	2	NNW	1004
4	95	68.9	8.2	94.5	7.2	127.1	0	-	1004
5	87	67.0	8.5	96.3	8.4	142.3	3	N	1004
6	94	67.9	8.5	102.5	8.7	155.8	2	NNW	1004
7	95	71.9	8.2	114.6	7.8	161.6	2	NNW	1004
8	98	58.3	7.8	83.9	6.6	158.6	2	N	1004
9	100	56.5	8.4	91.6	8.4	142.3	2	N	1004
10	93	60.7	8.0	100.0	7.8	119.1	1	N	1004
11	114	42.9	7.4	67.0	7.5	90.8	2	NW	1003
12	90	24.7	7.8	45.0	7.2	61.1	2	S	1002
13	98	13.1	7.9	27.1	6.6	42.1	7	SW	1002
14	102	30.2	5.6	54.9	4.5	30.1	8	SSW	1001
15	103	40.2	6.1	77.3	8.1	32.6	9	SSW	1000
16	137	49.2	4.9	119.8	2.7	48.5	9	SSW	1000
17	180	72.5	3.9	178.0	3.0	71.9	12	SSW	999
18	188	85.3	4.0	134.4	3.3	104.3	12	S	999
19	172	98.1	4.4	146.1	3.3	126.4	9	S	999
20	163	104.3	4.5	136.6	6.9	151.7	8	S	1000
21	157	87.6	5.2	147.2	5.7	162.1	4	WNW	1000
22	135	98.2	5.7	141.7	5.4	160.4	5	N	1002
23	125	85.0	5.7	123.8	6.0	153.8	2	N	1002

HOUR	WAVE NUMBER	19/9		05		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	121	81.5	6.2	142.8	6.6	144.3	0	-	1003
1	127	71.7	6.0	113.5	6.0	131.0	1	NE	1003
2	144	62.0	5.6	102.9	4.8	118.1	3	NNW	1004
3	127	69.6	5.8	99.6	4.8	114.3	2	NNW	1004
4	133	82.0	5.5	131.5	7.8	122.8	2	NNW	1005
5	123	89.2	5.8	119.0	6.3	127.8	0	-	1007
6	125	79.4	6.3	105.1	5.4	139.7	0	-	1007
7	114	82.8	7.0	127.1	6.9	150.6	0	-	1007
8	122	60.5	6.7	92.7	6.6	151.2	2	S	1007
9	123	59.3	6.4	85.0	6.6	143.0	3	SE	1007
10	30	193.1	36.1	620.7	272.4	130.3	3	SE	1007
11	148	40.9	6.4	65.9	6.9	111.3	4	SSE	1007
12	131	44.3	6.8	60.8	6.3	87.1	5	S	1008
13	143	42.9	6.6	76.9	6.3	61.4	5	SSE	1008
14	159	50.0	6.1	80.6	9.3	44.4	4	S	1008
15	151	45.3	6.1	72.9	8.1	36.8	3	SE	1008
16	171	53.7	4.8	75.8	6.3	38.1	6	SSW	1008
17	155	53.2	5.8	95.9	7.2	48.9	6	SSW	1008
18	182	63.6	5.0	94.1	5.7	67.6	7	SW	1008
19	163	87.8	4.8	144.3	4.8	89.9	4	WSW	1009
20	145	82.8	5.3	154.2	5.1	114.0	3	WSW	1010
21	143	86.8	5.0	133.7	3.6	134.9	2	W	1011
22	142	76.5	4.9	103.3	5.7	146.0	4	W	1011
23	145	63.4	4.8	97.0	4.2	146.6	3	W	1011

HOUR	WAVE NUMBER	1979		05 19		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	144	57.0	5.2	86.4	5.1	140.7	2	N	1012
1	142	49.3	5.7	69.2	6.9	131.9	4	N	1012
2	137	45.3	5.8	75.8	6.3	118.4	2	N	1013
3	137	42.1	6.4	72.1	5.7	108.9	4	NNW	1013
4	139	38.0	6.2	60.1	5.7	102.7	3	N	1013
5	127	40.4	6.9	60.8	7.2	103.5	4	NNW	1014
6	154	30.6	6.6	51.6	7.5	110.4	4	N	1014
7	120	34.6	6.8	54.2	7.8	118.1	2	N	1015
8	134	32.6	6.8	51.3	8.7	124.3	4	NE	1015
9	137	28.7	6.7	45.0	6.6	126.4	3	NNE	1015
10	125	33.6	6.6	49.1	7.2	123.0	3	ENE	1015
11	172	30.8	5.7	53.5	6.9	115.9	5	SSE	1015
12	155	39.1	6.3	69.9	7.2	101.2	5	SW	1015
13	167	35.8	6.1	57.5	8.1	84.3	4	SW	1015
14	155	40.4	6.2	58.6	9.3	67.1	5	S	1014
15	154	42.2	6.7	64.5	8.1	48.9	4	S	1014
16	142	36.1	6.8	64.8	8.1	35.6	3	SSW	1014
17	133	42.8	7.0	64.5	9.3	37.2	4	SSW	1014
18	119	49.3	7.5	87.5	9.0	49.7	2	SE	1014
19	108	52.6	8.2	71.4	8.7	65.5	2	E	1014
20	128	42.1	7.3	61.5	8.7	84.3	2	SE	1014
21	138	35.7	6.8	53.8	7.5	105.5	0	-	1015
22	128	44.0	7.5	71.4	7.8	126.9	2	NW	1015
23	127	38.0	7.4	54.9	7.8	137.5	2	NW	1015

HOUR	WAVE NUMBER	1979		05 20		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	115	40.4	7.7	60.4	8.4	142.7	3	N	1015
1	112	36.9	7.7	52.7	6.6	140.0	3	N	1014
2	127	35.0	7.7	71.4	8.1	128.1	3	N	1014
3	117	36.1	8.4	61.9	8.4	113.8	4	N	1014
4	109	35.7	8.5	60.4	7.5	100.5	3	N	1015
5	103	31.8	8.4	46.5	7.2	93.3	1	N	1015
6	103	36.4	8.1	64.1	8.1	89.0	3	N	1015
7	111	33.1	7.8	60.1	8.1	90.4	2	N	1016
8	109	37.3	8.0	49.4	7.8	97.5	2	S	1016
9	129	33.5	7.5	60.8	6.6	106.0	3	SSW	1016
10	131	33.2	7.0	54.9	7.5	111.7	3	SSW	1015
11	159	31.7	5.8	56.8	6.6	117.0	4	SSW	1015
12	207	29.8	4.9	63.0	6.6	112.2	5	SSW	1015
13	204	29.6	4.6	46.5	8.1	102.5	4	S	1014
14	209	30.4	4.3	52.0	6.9	89.2	5	SSW	1014
15	205	29.3	4.2	48.3	5.4	73.6	4	S	1013
16	200	32.6	4.3	51.6	9.3	60.5	4	SSW	1013
17	209	40.3	3.6	57.5	5.1	51.7	3	SW	1013
18	210	37.0	3.8	59.0	3.9	48.5	2	S	1013
19	192	33.7	4.5	53.1	7.8	55.8	0	-	1013
20	183	33.4	4.3	53.1	3.3	68.1	0	-	1014
21	164	37.7	5.1	61.2	4.2	86.9	3	NNW	1014
22	174	33.8	4.5	54.9	5.7	109.2	4	NNW	1015
23	178	32.9	5.0	51.3	7.2	125.1	5	N	1015

HOUR	WAVE NUMBER	1979		05		21	WIND		
		H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	VEL	DIR	PRES
0	222	22.2	4.6	38.8	7.8	138.4	5	N	1015
1	230	24.8	4.4	46.1	7.8	142.1	6	N	1015
2	194	26.7	5.4	41.7	8.4	135.4	6	N	1015
3	193	21.5	5.6	48.0	9.6	123.7	5	N	1015
4	161	27.2	6.2	45.0	8.7	104.8	5	N	1015
5	183	23.8	5.4	48.7	9.0	87.4	4	N	1015
6	156	27.3	6.1	43.9	6.0	74.2	4	N	1016
7	144	31.2	6.6	43.2	7.5	67.1	5	NNE	1016
8	150	32.1	6.4	55.7	9.0	69.7	5	NNE	1016
9	161	30.8	6.2	54.2	7.8	78.2	4	NNE	1016
10	135	32.1	6.5	56.0	7.5	90.4	4	NE	1016
11	153	37.0	6.3	66.3	6.9	104.8	5	SE	1016
12	163	40.5	6.1	63.7	7.2	114.7	5	SE	1015
13	161	36.1	6.3	64.8	7.8	117.9	5	SW	1015
14	175	34.3	5.9	55.3	7.5	113.1	6	SW	1014
15	164	33.2	5.5	64.5	7.8	101.8	6	SW	1014
16	149	33.4	6.6	56.4	7.8	87.8	4	SW	1014
17	139	33.7	6.7	58.2	9.0	71.2	4	SSW	1014
18	167	31.7	6.2	62.3	7.8	58.8	4	SSW	1014
19	188	29.4	5.1	63.7	7.5	54.3	3	S	1014
20	174	39.3	5.2	63.0	7.5	60.2	3	SSW	1014
21	193	36.2	4.6	53.8	5.4	74.0	3	SW	1014
22	163	37.4	5.9	59.7	7.5	94.2	3	SW	1014
23							3	SW	1014

HOUR	WAVE NUMBER	1979		05		22	WIND		
		H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	VEL	DIR	PRES
0							2	SW	1014
1							2	SSW	1013
2							4	NNW	1013
3							4	N	1013
4							3	N	1013
5							0	-	1013
6							0	-	1013
7							0	-	1013
8							2	SE	1012
9	133	33.7	6.8	50.2	6.0	54.7	3	SE	1012
10	158	33.1	6.0	44.7	7.8	68.9	5	S	1012
11	156	32.7	6.2	57.5	8.7	87.3	4	S	1011
12	191	44.7	4.3	66.3	2.7	107.4	5	SSW	1010
13	190	75.1	3.7	117.9	3.3	123.0	8	S	1009
14							11	S	1008
15							11	S	1007
16							12	S	1007
17							10	S	1007
18							7	S	1006
19	171	85.2	4.0	130.4	3.9	74.7	8	SSW	1006
20	170	71.8	4.3	157.1	5.1	70.1	6	SSW	1007
21	157	72.4	4.8	105.8	4.2	75.8	3	SW	1007
22	160	69.8	4.6	108.0	5.4	89.9	3	WSW	1007
23	164	62.2	4.7	94.1	4.2	110.4	3	SW	1007

HOUR	WAVE NUMBER	19/9		05 23		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	156	67.3	4.8	108.0	3.9	130.3	2	S	1007
1	158	64.8	4.7	96.3	3.9	148.5	3	NW	1007
2	154	57.7	4.9	88.3	4.5	157.7	2	NNW	1007
3	154	56.3	5.0	95.2	5.1	155.4	3	N	1006
4	156	50.0	5.4	72.5	4.5	139.8	4	N	1007
5	151	52.3	5.1	73.2	4.2	116.3	4	N	1007
6	144	46.5	5.3	63.7	4.8	88.5	4	N	1007
7	162	37.1	5.7	55.3	6.3	57.9	4	N	1007
8	140	33.8	5.9	56.4	5.4	40.9	4	N	1007
9	120	34.8	6.3	54.2	6.3	35.6	2	N	1007
10	125	35.3	6.1	56.0	5.4	44.4	4	SSE	1007
11	126	45.8	6.5	67.7	6.0	64.1	4	SSW	1007
12	143	44.6	6.4	72.5	7.2	90.6	5	SSW	1006
13	143	42.0	6.8	66.7	7.5	115.2	4	SSW	1006
14	134	37.5	6.7	64.5	6.6	135.4	4	SSW	1006
15	125	36.0	7.5	52.0	8.4	146.2	3	SSW	1006
16	154	36.7	5.9	53.8	8.4	146.9	3	S	1006
17	125	32.4	7.0	40.3	6.3	133.8	2	S	1006
18	134	39.2	6.7	48.7	6.3	117.5	0	-	1007
19	111	40.2	7.6	59.3	8.4	97.5	0	-	1007
20	136	33.1	7.8	51.6	9.3	81.4	4	N	1008
21	126	32.6	8.0	46.1	8.4	77.2	5	NNE	1008
22	153	31.4	6.8	58.6	9.0	84.3	5	N	1009
23	112	41.0	8.3	58.2	8.7	99.5	4	N	1009

HOUR	WAVE NUMBER	19/9		05 24		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	131	36.6	7.6	62.6	9.0	118.9	4	N	1009
1	142	33.6	7.0	61.5	8.7	140.9	4	N	1009
2	114	33.9	7.3	57.5	8.4	158.2	3	N	1009
3	107	33.1	7.5	52.7	6.9	163.4	2	N	1009
4	122	31.1	7.2	44.3	9.0	154.7	2	N	1009
5	127	31.2	7.5	44.7	10.8	131.9	1	N	1009
6	121	29.5	7.3	46.5	8.7	101.8	2	N	1009
7	109	29.0	7.9	41.7	7.5	69.0	1	N	1009
8	110	33.7	7.6	60.1	9.6	41.6	4	S	1010
9	121	39.7	7.4	74.0	8.4	23.4	3	S	1010
10	86	34.8	9.0	52.0	8.4	22.8	4	SSE	1010
11	119	33.7	7.8	47.2	9.6	37.0	4	SSE	1010
12	179	32.7	5.5	64.8	10.2	61.2	4	S	1010
13	165	37.5	6.1	68.1	6.3	92.9	4	S	1010
14	176	36.9	5.9	84.6	7.2	123.4	4	SSE	1010
15	168	36.1	5.1	54.9	6.9	146.6	3	SSE	1009
16	200	52.9	3.9	86.1	3.0	157.9	2	S	1009
17	196	54.8	3.7	99.6	3.6	154.5	6	SSE	1009
18	184	47.8	4.7	65.6	3.3	141.6	3	S	1009
19	197	62.6	3.8	112.4	3.9	119.7	4	SW	1009
20	193	61.6	4.0	111.3	3.3	98.6	4	SW	1010
21	175	53.1	4.3	77.3	4.2	85.3	1	SW	1011
22	170	50.7	4.6	75.1	4.5	82.0	2	WSW	1011
23	165	43.2	4.8	71.8	4.5	93.6	0	-	1011

HOUR	WAVE NUMBER	1979		05 25		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	155	40.5	5.1	63.0	6.9	111.7	1	N	1011
1	145	39.4	6.1	60.8	6.9	136.1	1	N	1011
2	147	36.8	6.4	61.9	7.2	155.9	3	N	1010
3	152	33.9	6.7	68.5	7.8	168.3	3	N	1011
4	133	32.6	6.8	62.6	7.5	167.6	2	N	1011
5	146	31.2	6.6	58.2	6.9	152.0	3	N	1011
6	115	35.8	7.3	50.9	7.8	123.5	3	N	1012
7	163	31.7	6.0	52.0	6.9	87.6	6	NNE	1012
8	165	29.6	6.0	47.2	9.0	51.0	6	NE	1012
9	134	33.9	7.6	52.4	9.0	23.5	5	NNE	1012
10							4	NNE	1013
11							4	SE	1013
12							4	SE	1012
13							4	S	1012
14							6	WSW	1012
15	172	41.6	5.4	61.5	7.8	130.3	5	SW	1012
16	158	41.1	6.0	71.0	9.3	152.0	5	SSW	1011
17	164	37.9	5.9	59.0	9.6	160.7	5	SW	1012
18	169	31.8	5.7	54.6	7.8	157.0	4	SW	1012
19	130	36.6	7.0	56.4	9.0	141.1	4	WSW	1012
20	138	39.0	7.0	66.3	8.4	119.5	4	SW	1012
21	133	40.6	7.3	67.4	9.0	100.0	4	SW	1013
22	150	42.9	6.4	89.4	7.5	89.6	0	-	1013
23	119	48.5	7.6	88.3	7.8	91.2	0	-	1012

HOUR	WAVE NUMBER	1979		05 26		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	106	50.6	7.8	74.7	8.1	105.1	2	S	1012
1	106	56.5	7.5	90.8	7.5	124.1	0	-	1012
2	117	54.2	7.3	86.1	6.9	147.1	0	-	1012
3	104	63.5	7.7	100.3	7.8	166.6	2	N	1012
4	107	60.6	7.7	96.7	7.2	173.8	3	N	1012
5	109	61.6	7.2	90.1	7.5	166.6	3	N	1012
6	103	57.2	8.1	88.3	7.2	146.0	3	N	1012
7	108	52.2	8.3	71.4	10.8	112.6	3	N	1012
8	113	49.8	7.9	80.6	8.7	70.6	3	N	1012
9	90	57.1	8.7	83.5	8.1	38.6	4	SSE	1012
10	99	45.7	8.2	79.8	8.4	16.1	4	S	1012
11	103	49.5	8.2	77.3	7.2	8.3	4	S	1011
12	115	54.6	8.0	83.1	8.7	18.2	6	S	1011
13	142	43.4	7.4	82.8	7.5	47.6	6	S	1010
14	132	51.3	7.3	81.3	7.5	82.5	6	S	1009
15	143	59.3	6.9	105.5	8.7	116.8	6	S	1008
16	168	58.3	5.3	104.0	8.4	149.9	8	S	1007
17	171	61.4	5.4	107.3	7.2	168.1	6	S	1007
18	176	59.1	4.6	92.7	7.8	171.5	8	S	1007
19	188	63.2	4.2	87.2	7.8	163.0	9	S	1007
20	170	59.3	4.9	89.0	7.2	144.4	8	S	1007
21	184	57.4	4.6	100.3	5.7	129.0	7	S	1007
22	175	46.9	5.0	84.6	7.5	109.7	6	S	1007
23	173	40.7	5.0	69.9	6.6	100.9	4	SW	1007

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HOUR	WAVE NUMBER	19/9		05 27		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	154	39.0	6.4	68.5	6.9	108.7	5	N	1007
1	140	41.4	7.2	72.5	7.2	125.0	5	N	1006
2	155	40.5	7.0	68.8	8.1	146.0	5	NNW	1007
3	133	39.6	7.3	69.6	7.8	164.6	4	NNW	1006
4	104	54.5	7.6	95.9	7.2	180.0	3	E	1006
5	117	47.2	7.5	73.2	8.4	182.5	3	N	1006
6	107	42.6	7.8	63.0	7.2	168.3	2	NW	1005
7	117	37.1	7.4	61.2	7.5	143.0	2	NW	1005
8	128	42.4	6.4	63.4	6.9	103.5	1	NE	1005
9	89	67.2	8.1	780.0	9.9	65.8	2	SE	1004
10	125	34.6	6.5	52.7	6.9	31.2	2	SE	1004
11	165	30.6	5.8	49.8	6.6	15.2	4	WNW	1005
12	142	30.6	5.8	51.6	7.5	16.8	3	NW	1002
13	208	49.9	4.1	254.5	2.4	34.3	10	W	1002
14	127	41.0	6.6	65.6	8.4	66.2	4	N	1001
15	153	34.1	6.0	60.8	6.3	104.6	4	SW	1000
16	164	29.0	5.4	46.1	6.6	141.6	3	S	1000
17	116	42.3	7.5	67.4	7.2	168.3	3	SSW	1000
18	116	42.5	6.9	68.5	6.9	178.1	2	SW	1001
19	107	48.2	6.8	76.9	6.9	176.5	2	NNW	1002
20	112	51.1	7.4	74.0	7.2	164.1	2	N	1002
21	105	53.0	7.3	70.3	8.4	144.4	0	-	1005
22	115	63.0	7.1	94.5	6.3	124.3	0	-	1005
23	111	67.1	6.4	113.2	7.2	111.2	2	N	1004

HOUR	WAVE NUMBER	19/9		05 28		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	109	79.8	6.6	122.3	5.7	108.0	3	N	1004
1	118	87.1	6.1	174.7	6.0	119.3	3	N	1004
2	118	93.0	6.5	135.5	5.4	135.4	2	N	1004
3	111	82.4	6.5	120.1	6.9	155.2	3	N	1005
4	108	79.9	6.6	110.6	6.0	172.4	4	N	1005
5	114	74.6	6.6	117.2	6.0	180.0	4	N	1005
6	115	63.4	6.5	101.4	6.6	174.5	2	N	1006
7	126	58.4	6.1	82.8	7.2	155.9	1	W	1006
8	118	56.6	6.7	81.3	6.9	121.8	2	SE	1006
9	114	48.9	6.8	78.7	6.9	84.4	3	S	1006
10	126	44.2	6.5	72.5	6.0	47.8	4	SSW	1006
11	150	39.4	6.4	65.9	6.3	22.7	5	SSW	1006
12	190	51.5	4.0	74.7	4.8	13.1	8	S	1006
13	181	92.9	3.8	162.6	3.6	21.4	11	S	1005
14	167	99.1	3.9	144.7	3.9	45.0	12	S	1004
15	161	95.2	4.4	129.3	4.2	78.4	10	S	1005
16	174	97.4	4.0	150.9	3.3	116.1	10	S	1005
17	186	80.1	4.1	118.3	3.3	147.3	9	SSW	1005
18	174	75.1	4.5	117.6	3.9	167.3	6	SSW	1005
19	151	79.4	4.8	116.1	4.8	175.4	4	SW	1005
20	167	65.1	4.4	98.1	4.5	168.1	4	SW	1005
21	174	62.9	4.3	106.6	4.5	151.7	4	SW	1005
22	164	61.0	4.2	104.0	3.9	131.7	2	E	1005
23	158	54.4	4.6	75.8	4.2	115.2	3	NNW	1005

		19/9		05	29					
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES	
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR		
0	167	53.6	4.4	97.8	4.5	106.4	2	N	1004	
1	155	53.6	4.3	108.0	4.5	109.4	0	-	1004	
2	155	44.4	5.1	67.4	3.9	124.4	3	N	1003	
3	157	47.1	5.3	81.7	4.8	141.6	5	NNE	1004	
4	154	47.4	5.3	76.2	5.1	160.4	4	NNE	1004	
5	146	46.7	5.7	72.1	5.1	171.5	4	N	1005	
6	157	35.7	6.0	52.7	6.3	173.8	3	NNE	1005	
7	176	32.5	5.2	51.3	5.4	162.1	4	NNE	1005	
8	158	30.7	5.6	53.8	6.6	137.5	3	ENE	1005	
9	154	34.0	5.6	52.0	6.0	105.8	4	SE	1005	
10	143	34.1	5.8	52.4	7.8	67.6	4	SSE	1005	
11	144	30.5	6.0	45.0	6.6	37.7	4	SSE	1005	
12	159	27.3	6.0	44.3	4.2	21.9	5	S	1004	
13	176	30.1	5.3	53.8	6.3	20.5	5	SSW	1003	
14	204	36.2	4.2	66.7	5.7	34.3	5	SW	1002	
15	202	42.1	4.0	60.4	4.2	61.4	5	S	1001	
16	209	50.8	3.7	78.0	3.9	95.2	3	SSE	1000	
17	209	47.2	3.7	85.3	3.6	129.2	4	SE	1000	
18	196	47.9	4.1	78.0	5.7	155.6	3	SE	999	
19	203	43.8	4.0	78.7	2.7	171.5	2	E	999	
20	183	36.7	4.6	62.6	6.6	173.3	3	N	1000	
21	210	31.3	4.2	53.8	4.5	162.0	4	N	1001	
22	162	42.3	5.5	67.4	6.6	145.0	5	NNE	1001	
23	177	54.3	5.1	117.2	6.6	127.6	7	NNE	1001	

		19/9		05	30					
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES	
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR		
0	158	53.8	5.6	84.6	5.1	115.6	7	N	1003	
1	147	41.3	5.8	63.7	6.6	110.3	4	NE	1004	
2	174	32.9	5.9	71.8	5.7	115.9	5	NNE	1004	
3	162	34.3	5.9	63.4	4.8	131.0	4	NE	1004	
4	155	38.8	6.1	59.3	5.7	148.5	5	NE	1005	
5	118	43.7	6.1	94.8	6.3	162.7	3	NE	1005	
6	143	36.4	5.9	60.4	6.0	170.8	3	N	1006	
7	149	32.9	5.8	52.7	5.7	165.7	4	N	1007	
8	161	34.8	5.8	56.8	7.5	148.9	4	N	1007	
9	175	31.3	5.1	48.3	6.0	122.8	4	N	1007	
10	163	31.0	5.6	47.6	5.4	91.3	4	NE	1007	
11	164	34.4	5.4	56.8	7.8	60.2	6	SW	1007	
12	204	31.5	4.5	55.7	5.7	36.6	6	SW	1007	
13	201	36.6	4.0	65.2	6.6	26.4	4	S	1007	
14	187	32.7	4.6	46.1	6.9	-54.5	4	S	1008	
15	195	34.2	4.5	49.4	7.8	43.9	7	SW	1009	
16	195	46.4	4.2	80.6	3.6	71.2	7	S	1009	
17	151	89.3	4.9	126.7	4.8	101.1	6	S	1009	
18	145	88.0	4.9	123.8	4.8	130.1	5	S	1010	
19	158	76.8	5.0	124.9	6.3	151.0	3	E	1011	
20	148	63.9	5.3	100.0	6.3	159.1	3	E	1011	
21	147	62.7	5.8	79.8	3.6	153.5	2	ENE	1012	
22	137	65.9	5.8	93.0	6.3	140.0	3	ENE	1012	
23	139	53.4	5.7	82.8	5.1	122.3	2	NE	1012	

平塚沖波浪観測資料(2) — 渡部・徳田

HOUR	WAVE NUMBER	19/9		05		TIDE	31		WIND VEL DIR	PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		H	T		
0	143	49.3	5.6	86.8	5.4	108.7			0 -	1012
1	131	48.9	5.7	77.3	5.4	98.9			2 NE	1012
2	119	44.2	6.2	71.4	6.6	99.1			2 NW	1012
3	132	43.8	6.2	77.3	6.6	107.4			2 NW	1012
4	123	40.8	6.5	62.3	6.9	120.2			2 NW	1012
5	125	39.8	6.5	55.7	7.5	137.9			2 N	1013
6	115	44.0	6.9	69.2	7.5	149.2			1 NW	1013
7	131	36.6	6.0	67.7	6.9	151.2			2 S	1013
8	125	36.1	6.8	51.6	7.8	142.3			2 SE	1013
9	120	44.0	6.8	64.5	6.6	125.7			3 SE	1013
10	147	29.7	6.6	45.4	5.7	101.8			4 SSE	1013
11	162	27.2	5.8	45.0	6.6	72.6			4 SSE	1013
12	151	22.4	6.5	33.3	7.5	49.0			4 S	1013
13	171	24.9	5.7	42.5	6.9	32.2			5 S	1013
14	222	27.1	3.8	54.6	7.2	25.7			6 S	1013
15	192	33.8	4.3	60.1	5.7	36.1			6 S	1012
16	237	36.7	3.4	49.8	2.7	55.4			5 S	1012
17	194	44.3	4.2	60.4	5.1	82.7			7 S	1012
18	220	49.6	3.3	79.1	3.6	111.2			8 S	1012
19	187	81.3	3.8	139.2	4.2	135.2			9 S	1013
20	196	70.7	3.7	111.7	4.2	148.9			9 S	1013
21	189	68.9	3.9	100.0	3.3	152.0			6 SW	1014
22	189	66.6	3.8	100.7	3.9	146.6			7 SSW	1014
23	201	62.9	3.6	95.2	3.6	132.4			8 SSW	1014

春期(1979年3月～1979年5月)

南寄りの風の頻度は冬期に比べて多くなっている。この傾向は3月から5月へと夏に近づくにつれて益々強くなり、5月では南寄りの風と北寄りの風とがほぼ同じ頻度となった。一方平均風速分布において、3月と4月では、南寄りの風は、 $4\text{ m/s} \sim 5\text{ m/s}$ の北寄りの風に比べて、 $8\text{ m/s} \sim 9\text{ m/s}$ と大きな値となっている。5月では、南寄りの風の方が少し強いが、ほぼ両者は同じ強さであると言える。

波高分布では次のことが言える。3月は4月、5月に比べて、大きな波高の波は発達していないように見えるが、このことは正しくない。と言うのは3月にはとくに強風時のデータの欠損が多いからである。この季節の波高は、平均的には約50cm付近に集中しているが、頻度は少ないが、4m以上の値にも達していることである。

これは1/3有義波高であるから、最大波高で見ると、約6mの値になる。5月に発達した波高の高い波は4月に発達した波に比べて、その周期が3秒程度長くなっている。これは、後者が突風によって発達した波に対して、前者は沖合からのうねりとともに発達した波であることによるものと考えられる。

以上のことにより、この季節は、台湾坊主や春一番などの突風が起る季節のため、鏡の如く穏やかな海であっても、極めて短時間のうちに強風が吹き荒れて大波が発達することがある。このため春期は、海難事故が多く発生し、最も危険な季節と言える。

表1 1カ月間の有義波の波高と周期の頻度

	1979 03															
T (SEC) H (CM)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL	
0- 30	0	2	12	12	/	11	9	1	0	0	0	0	0	0	54	
30- 60	0	6	28	27	41	136	88	13	5	1	0	0	0	0	345	
60- 90	0	0	15	15	/	57	29	6	4	1	0	0	0	0	114	
90-120	0	0	5	6	0	1	0	0	0	0	0	0	0	0	12	
120-150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
150-180	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
180-210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
210-240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
240-270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
270-300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
300-330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
330-360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
360-390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
390-420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
420-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	0	8	60	60	55	186	126	20	9	2	0	0	0	0	526	

表 1 1 カ月間の有義波の波高と周期の頻度

	19/9 04														
T (SEC) H (CM)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL
0- 30	0	1	6	21	22	5	5	0	0	0	0	0	0	0	60
30- 60	0	2	8	24	63	100	48	5	0	0	0	0	0	0	250
60- 90	0	2	26	27	15	59	36	13	1	0	0	0	0	0	179
90-120	0	0	11	32	15	11	6	2	5	0	0	0	0	0	82
120-150	0	0	3	43	2	7	4	1	1	0	0	0	0	0	61
150-180	0	0	0	2	1	4	1	0	0	0	0	0	0	0	8
180-210	0	0	0	0	3	1	3	0	0	0	0	0	0	0	7
210-240	0	0	0	0	1	3	2	3	0	0	0	0	0	0	9
240-270	0	0	0	0	0	1	0	3	0	0	0	0	0	0	4
270-300	0	0	0	0	0	0	1	3	0	0	0	0	0	0	4
300-330	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
330-360	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
360-390	0	0	0	0	0	1	2	0	0	0	0	0	0	0	3
390-420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
420-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	5	54	149	122	194	108	32	7	0	0	0	0	0	671

	19/9 05														
T (SEC) H (CM)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL
0- 30	0	0	3	13	24	16	5	0	1	0	0	2	0	1	65
30- 60	0	2	39	57	121	90	37	3	2	0	0	0	0	0	351
60- 90	1	0	21	24	30	25	22	27	2	1	1	0	0	0	154
90-120	0	0	6	6	6	7	14	25	10	0	0	0	0	0	74
120-150	0	0	0	1	0	2	13	10	7	0	0	0	0	0	33
150-180	0	0	0	0	0	1	1	4	2	2	0	0	0	0	10
180-210	0	0	0	0	0	3	1	2	4	2	0	0	0	1	13
210-240	0	0	0	0	0	2	0	1	1	2	0	0	0	0	6
240-270	0	0	0	0	0	2	2	1	1	2	1	0	0	0	9
270-300	0	0	0	0	0	0	1	0	0	1	1	0	0	0	3
300-330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
330-360	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
360-390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
390-420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
420-	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTAL	1	2	69	101	181	148	96	73	30	10	5	3	0	2	721

1979 03

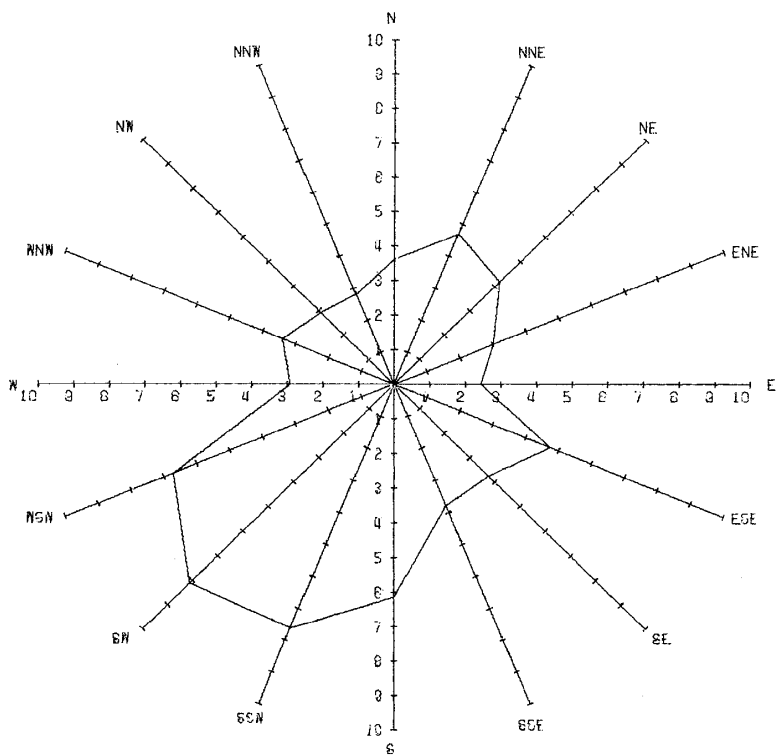
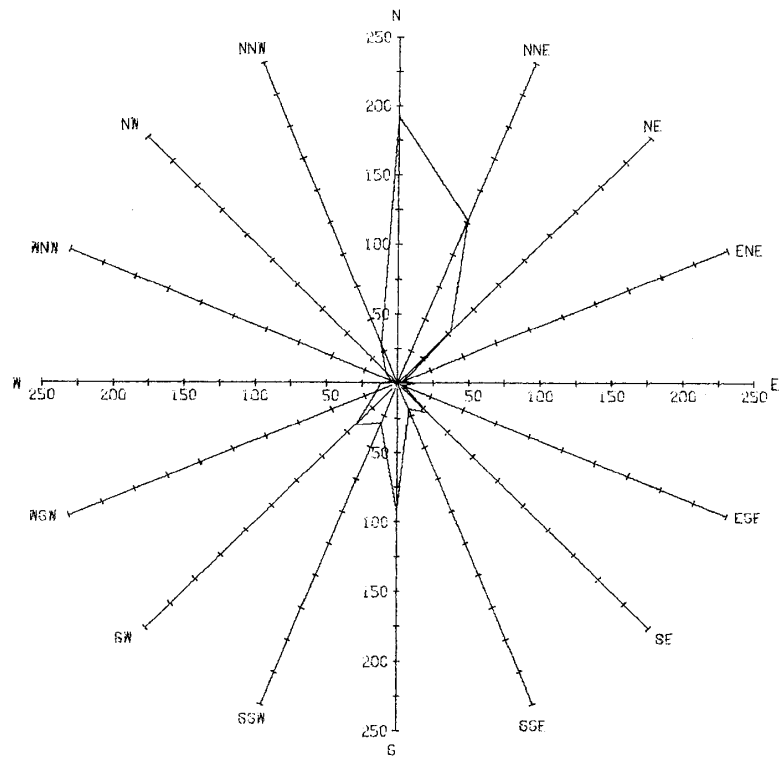


図3 1カ月間の風向・風速分布

上図は風向の頻度分布で、下図は風速の方向分布を示す

1979 04

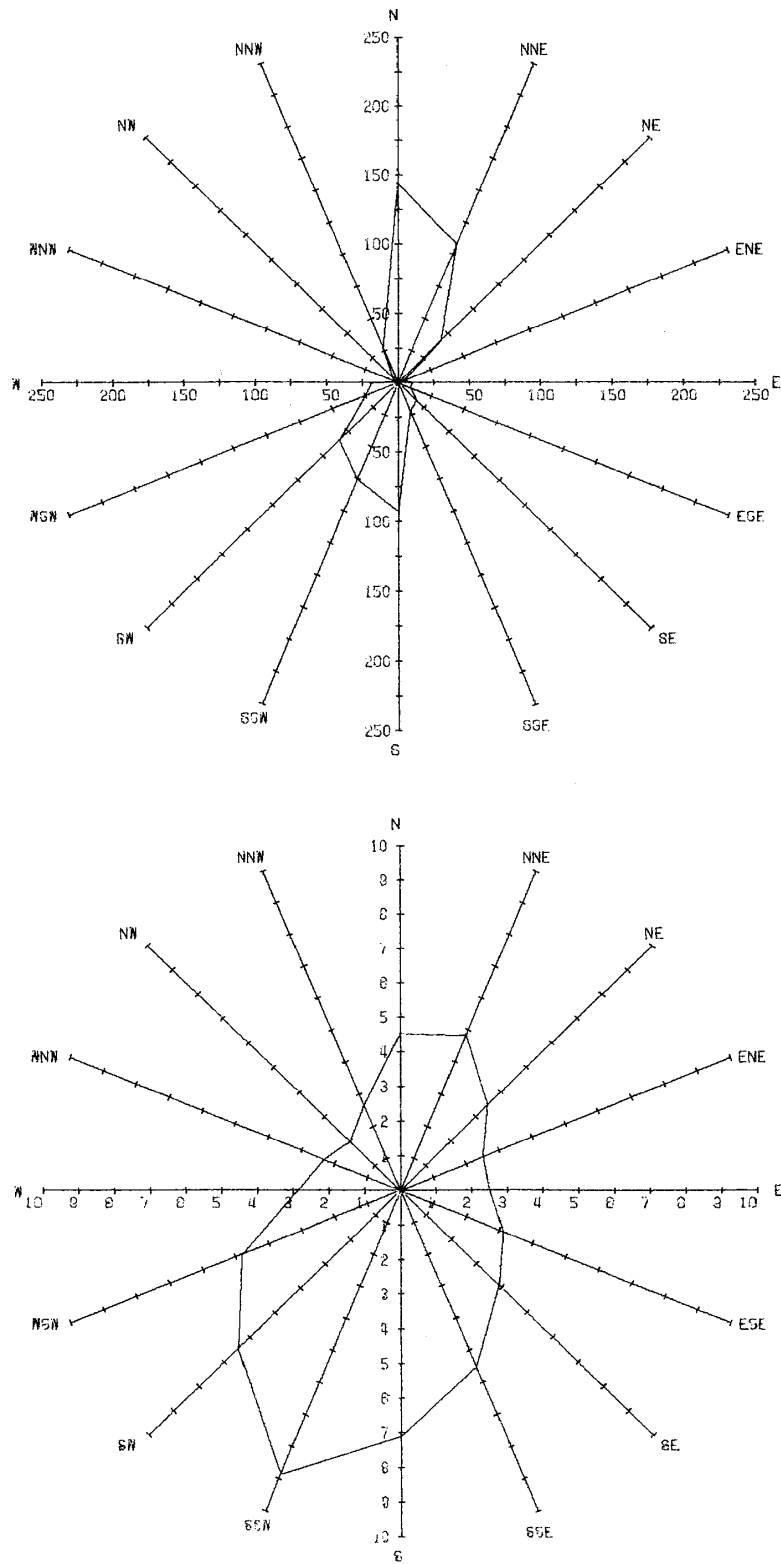


図3 1カ月間の風向・風速分布

上図は風向の頻度分布で、下図は風速の方向分布を示す

1979 05

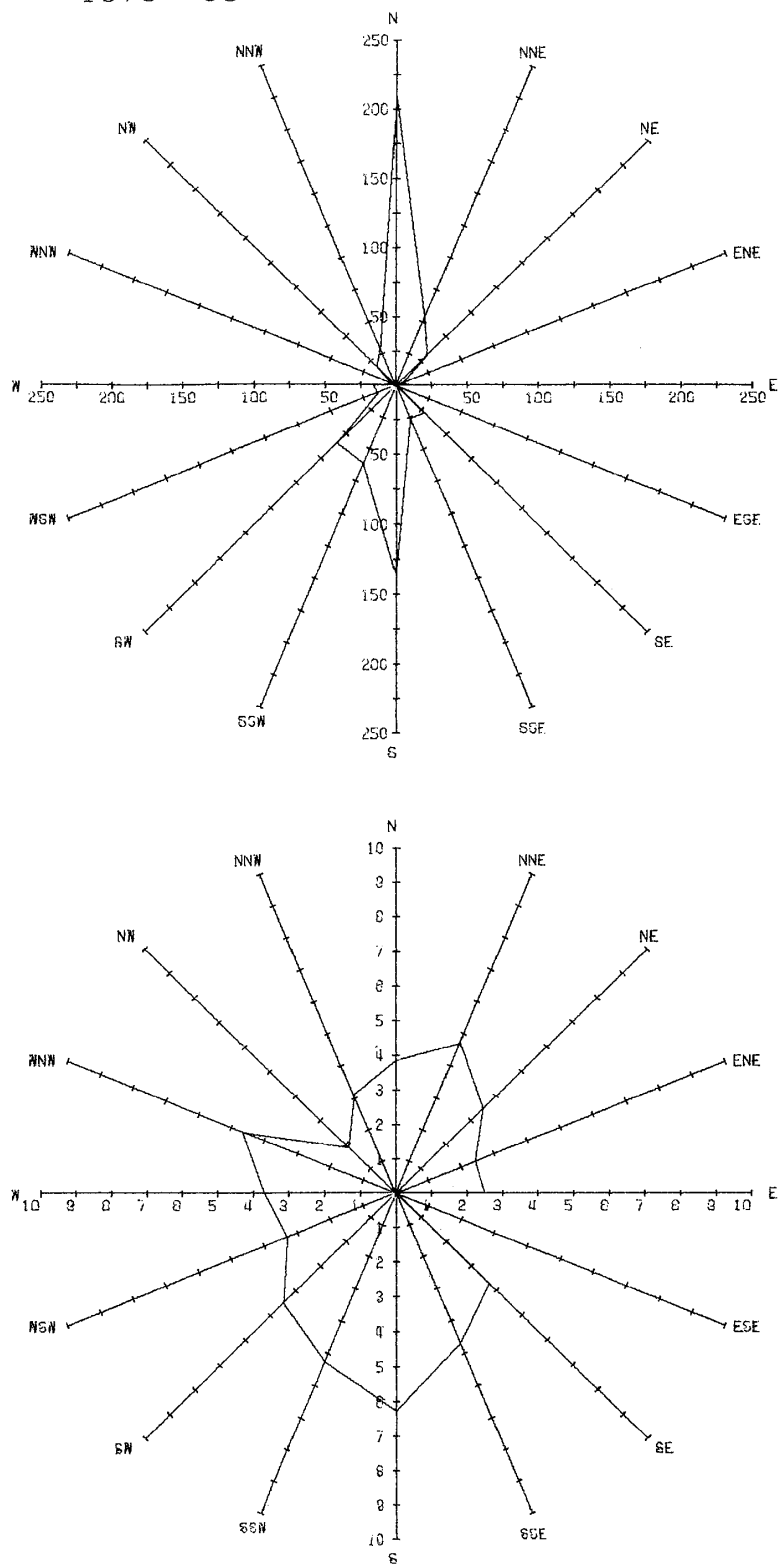


図3 1カ月間の風向・風速分布

上図は風向の頻度分布で、下図は風速の方向分布を示す

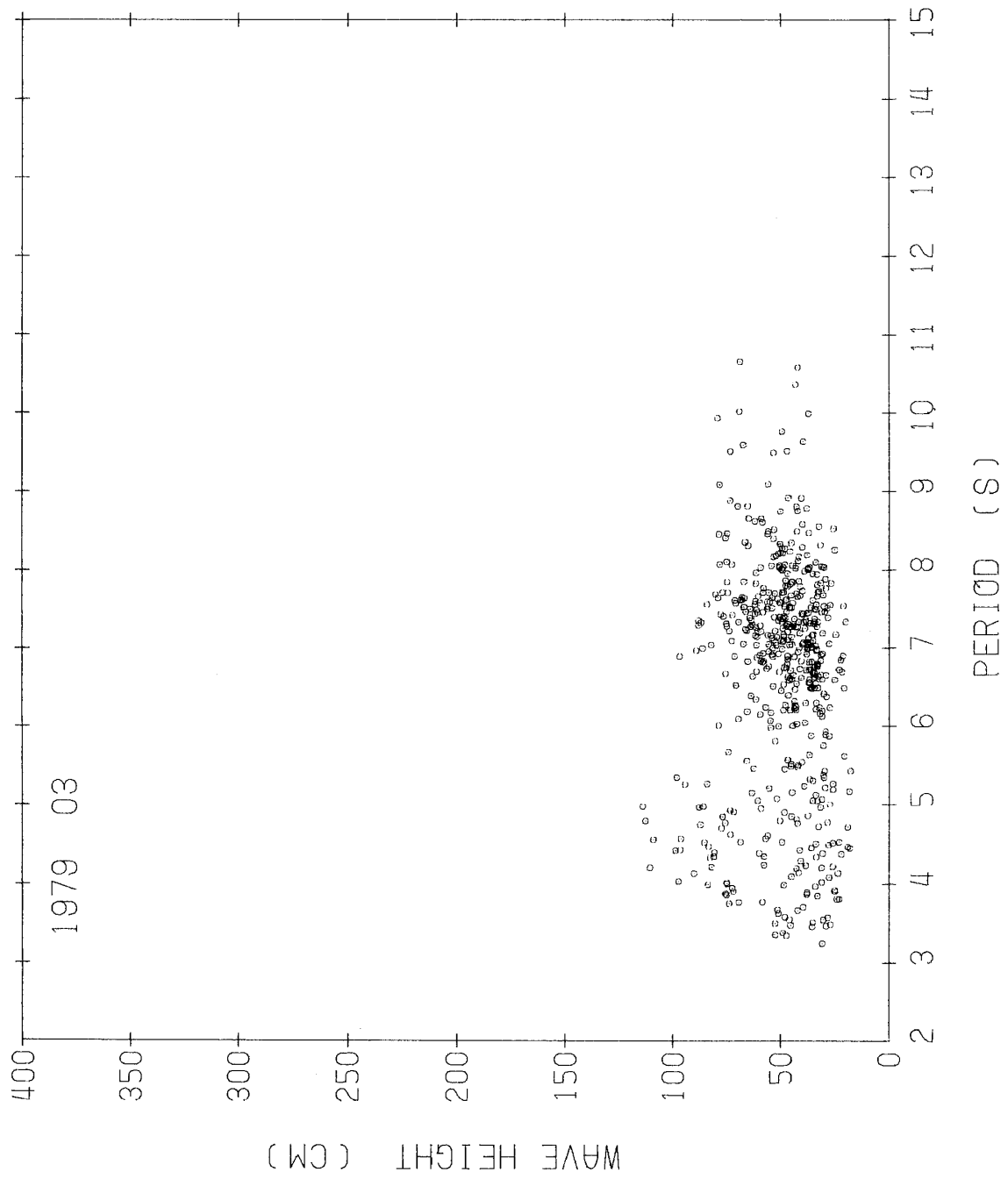


図4 1カ月間の有義波の波高と周期の頻度分布

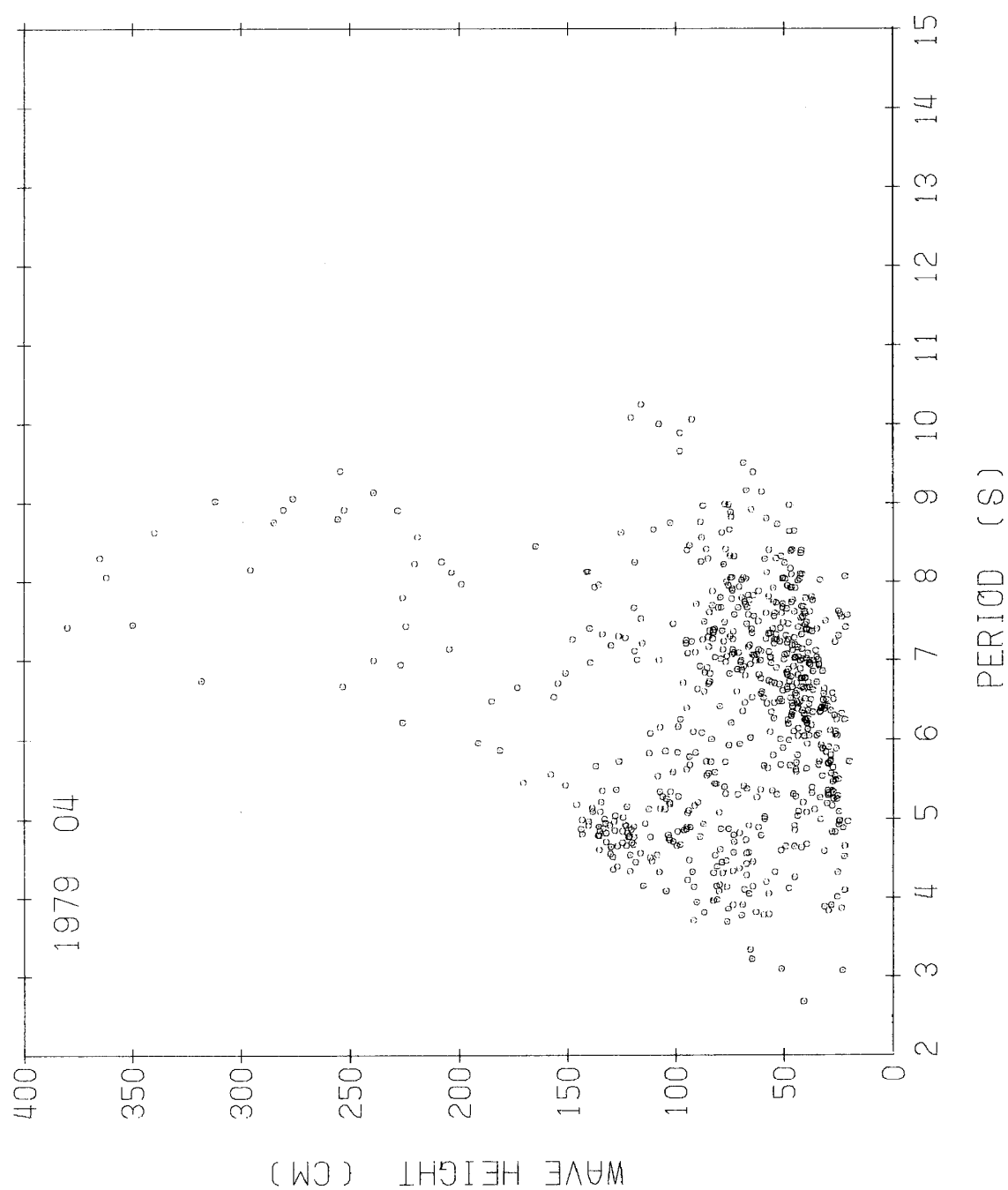


図4 1カ月間の有義波の波高と周期の頻度分布

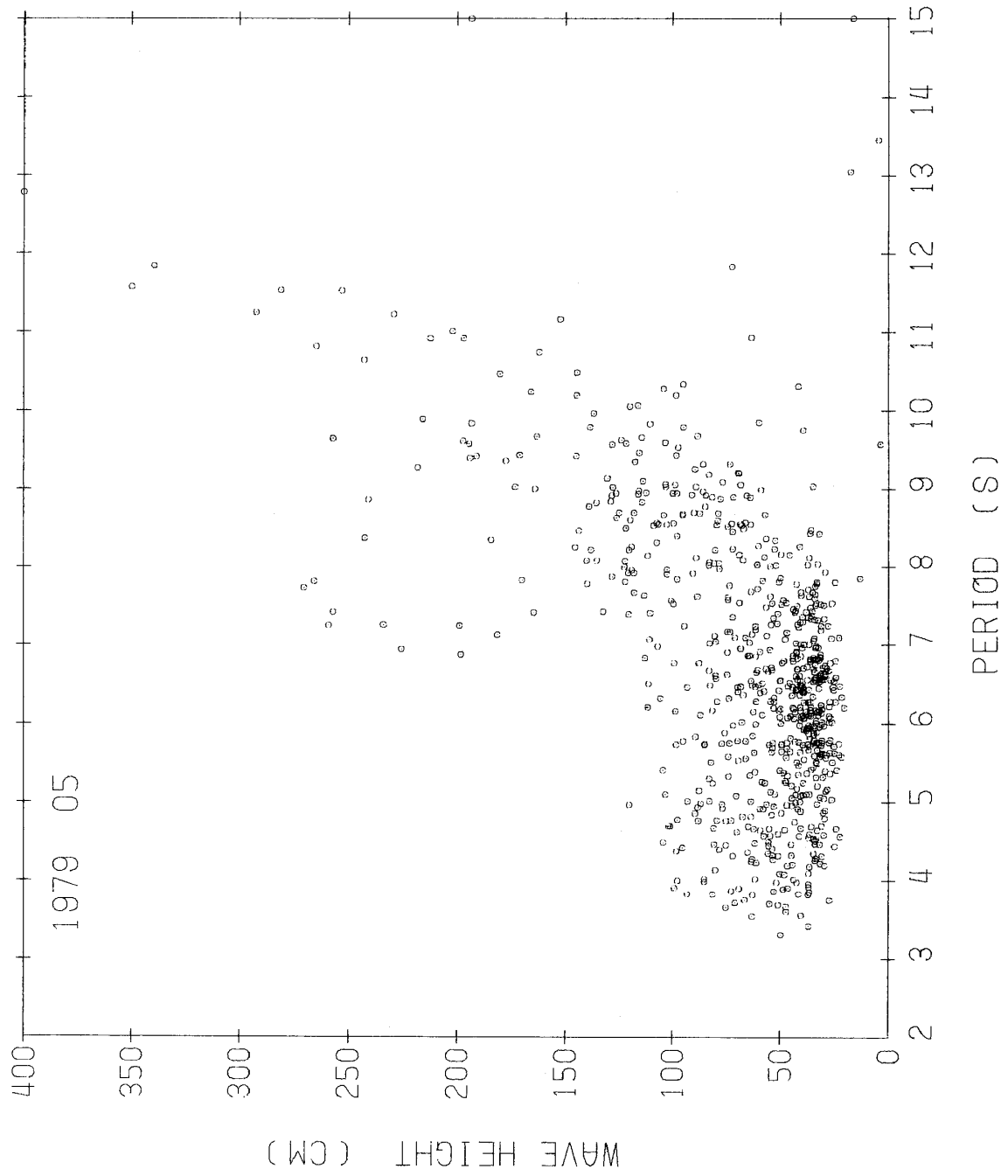


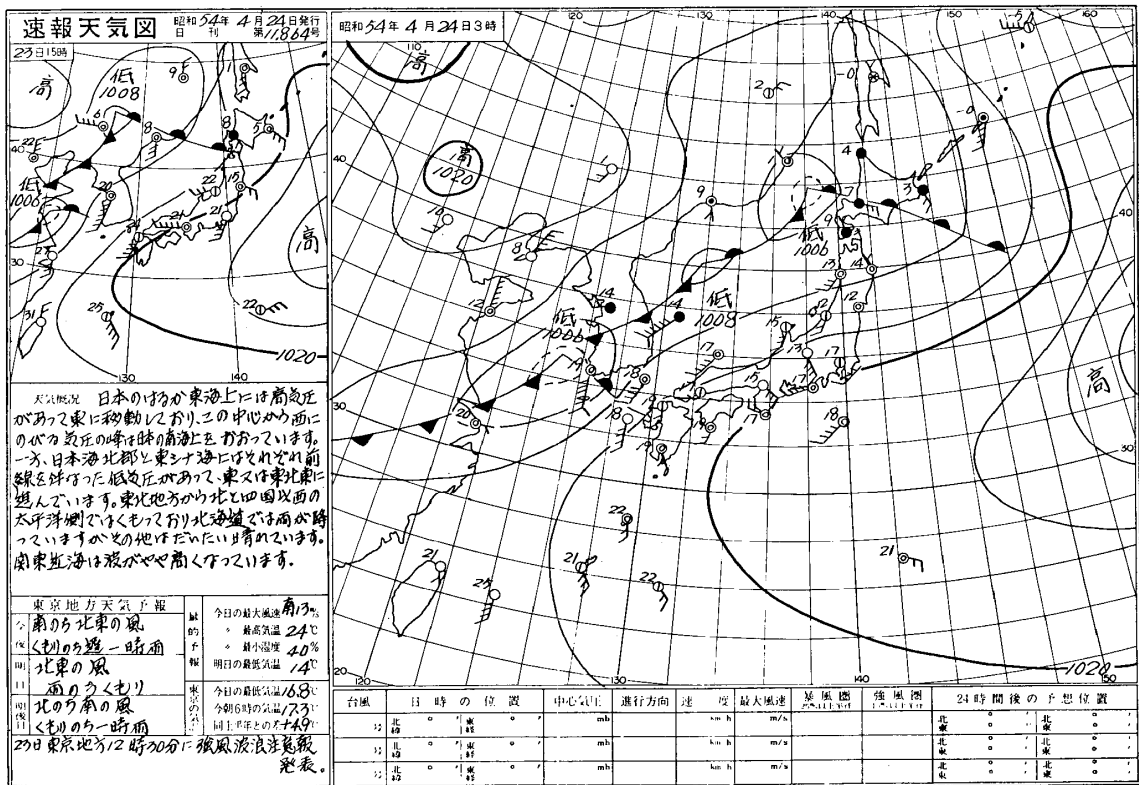
図4 1ヵ月間の有義波の波高と周期の頻度分布

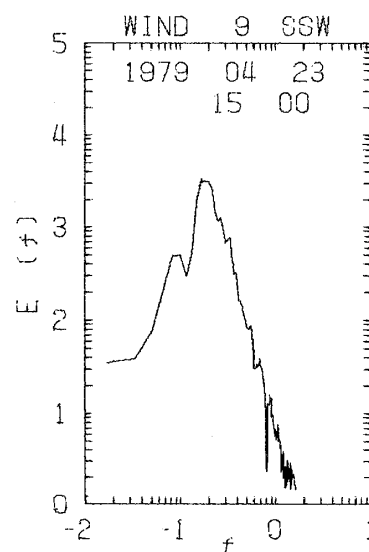
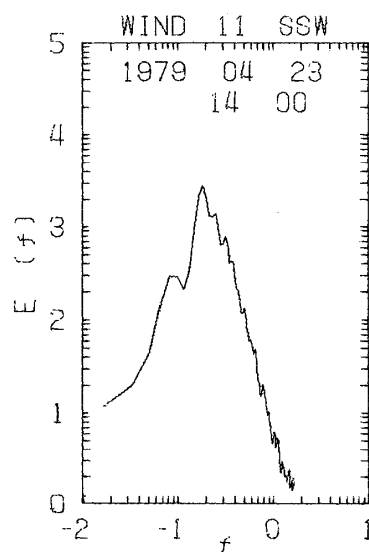
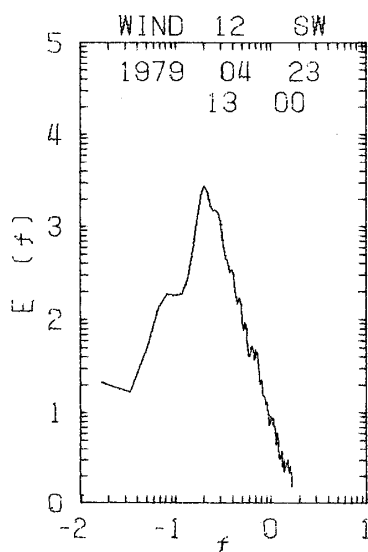
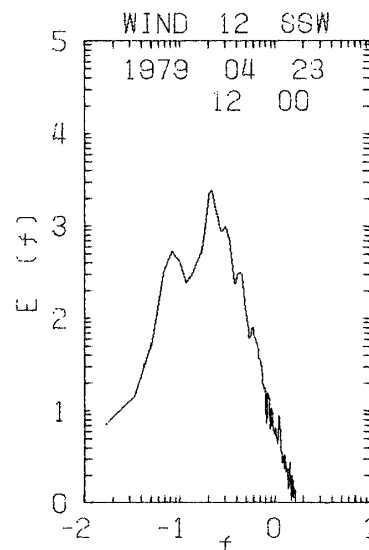
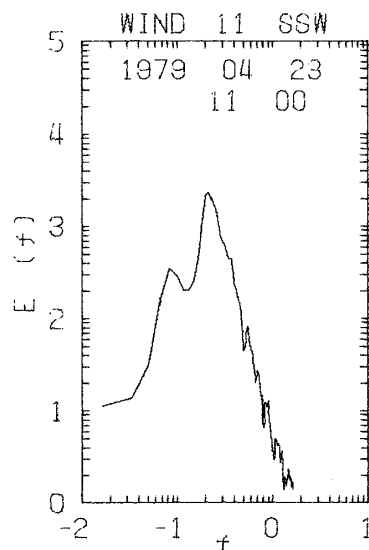
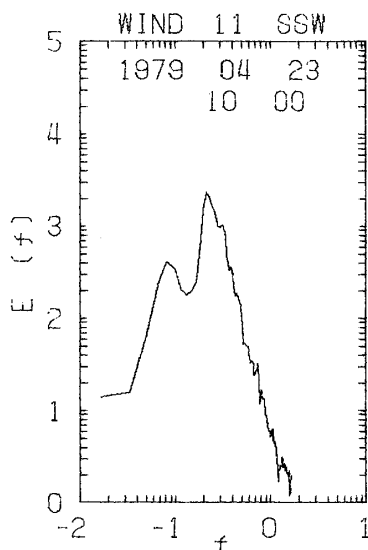
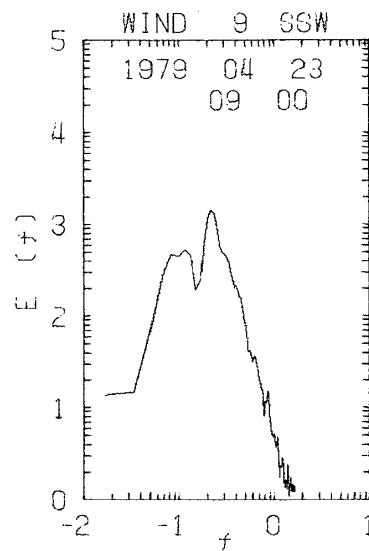
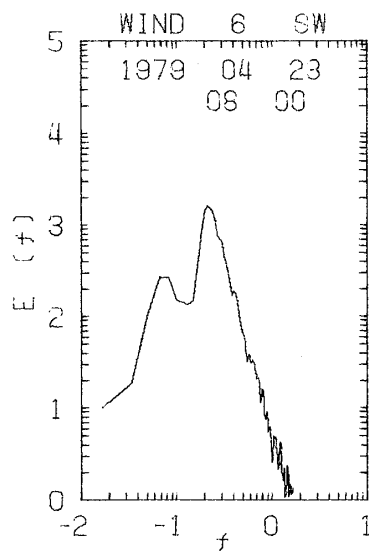
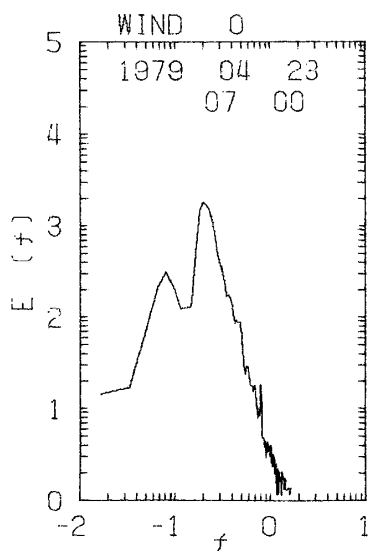
春期の代表的な風波の発達について

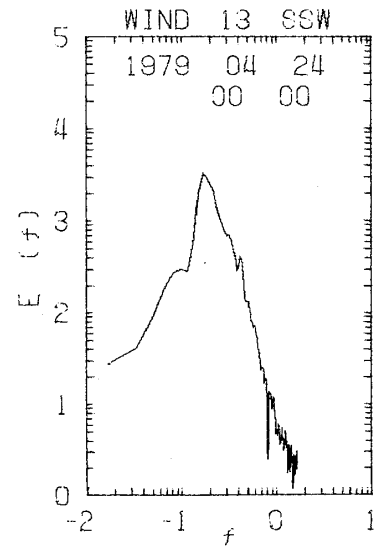
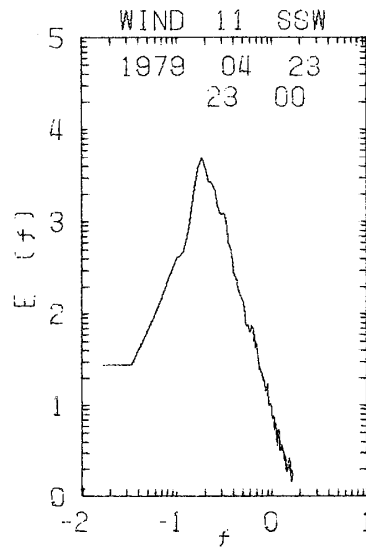
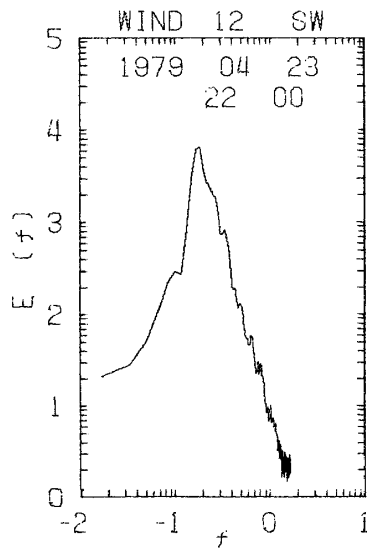
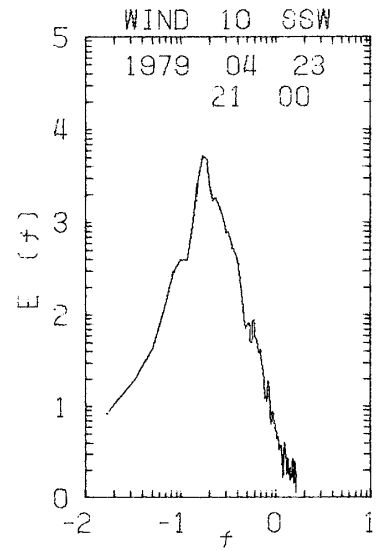
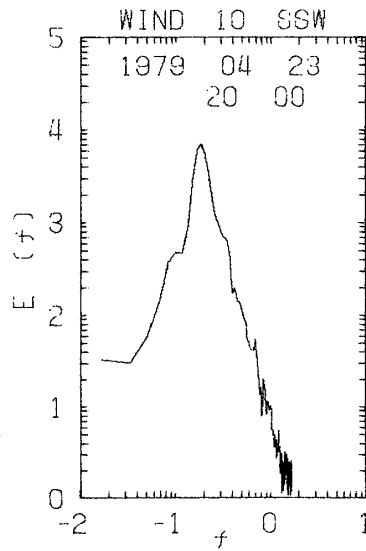
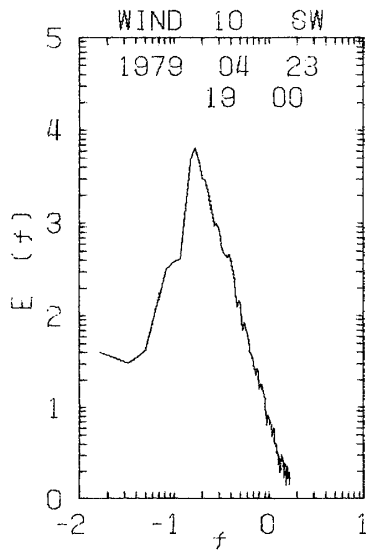
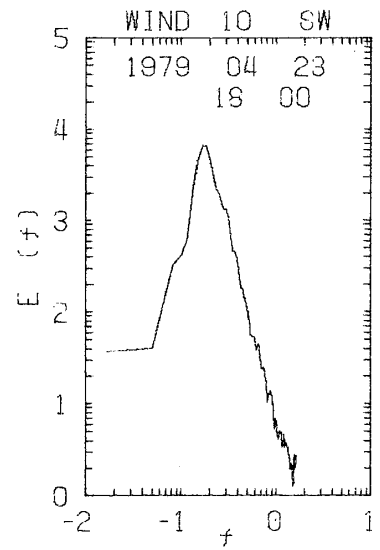
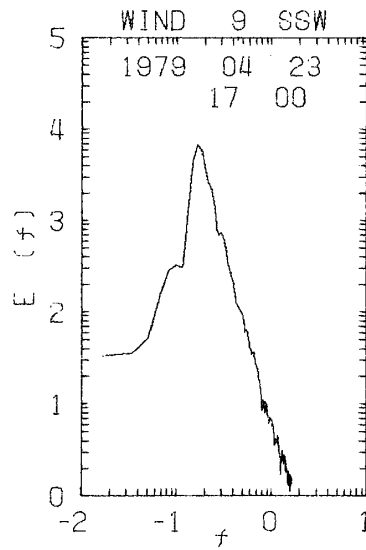
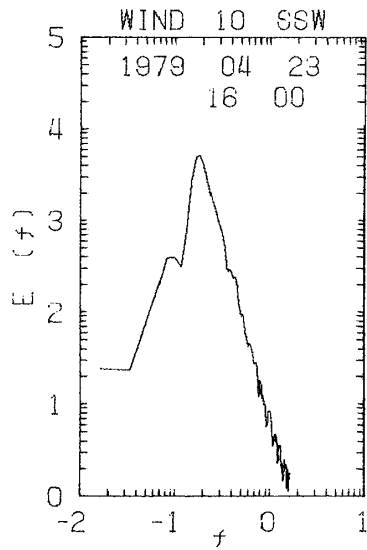
4月23日7時から4月25日6時までの毎時のパワー・スペクトルを求め、風波の発達を調べた。

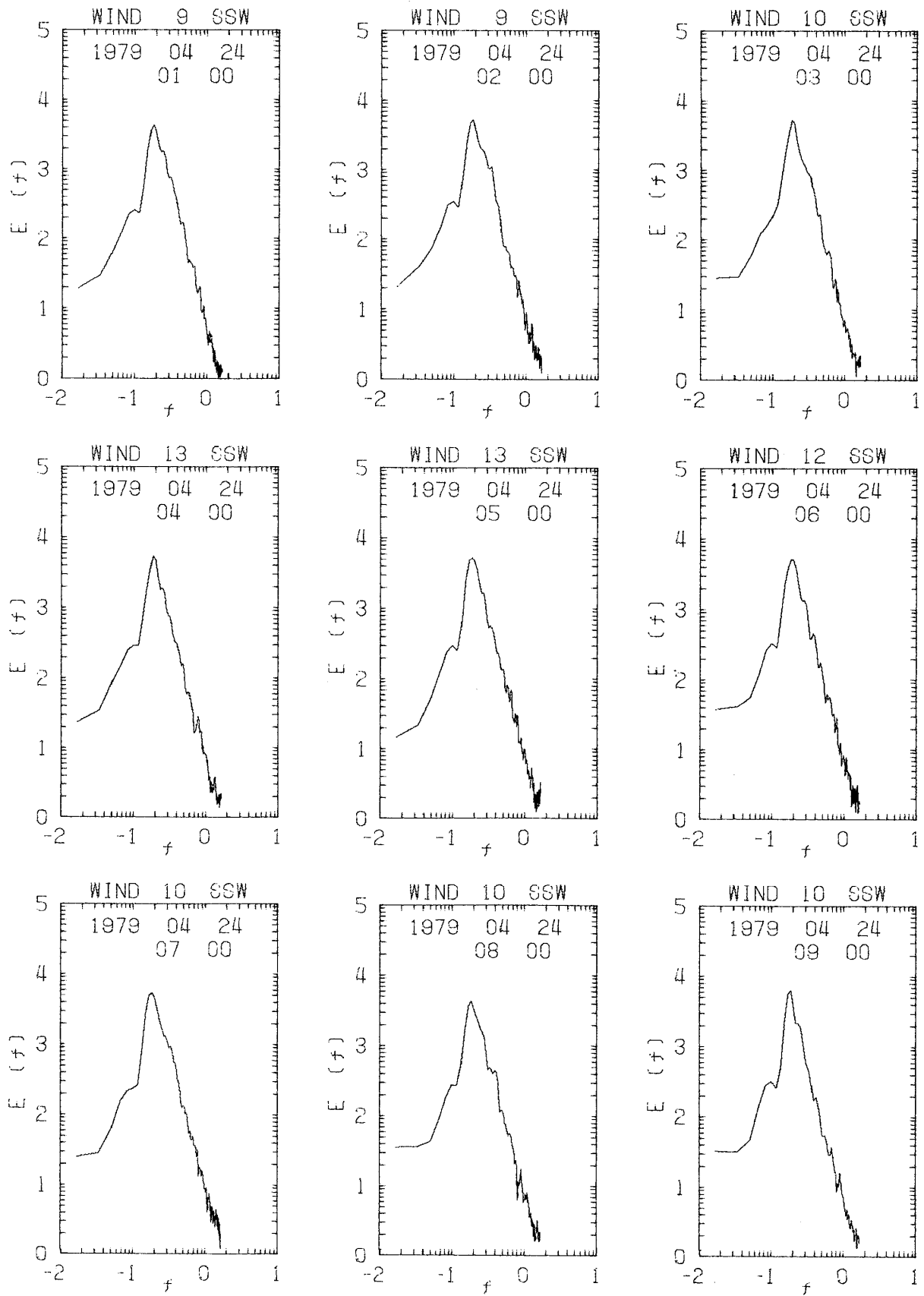
天気図から判るように、移動性高気圧に刺激された低気圧が、日本列島の北側で急に発達し、強い南風をもたらす。この場合、風速は平均的に10 m/s となった。

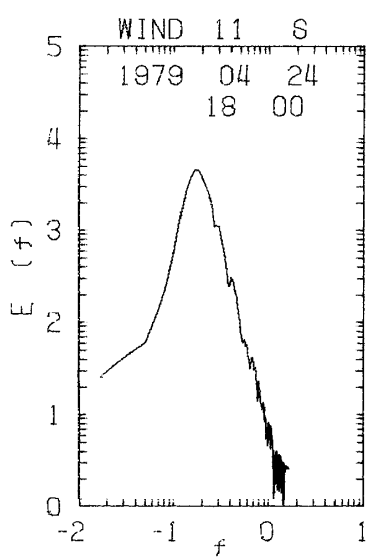
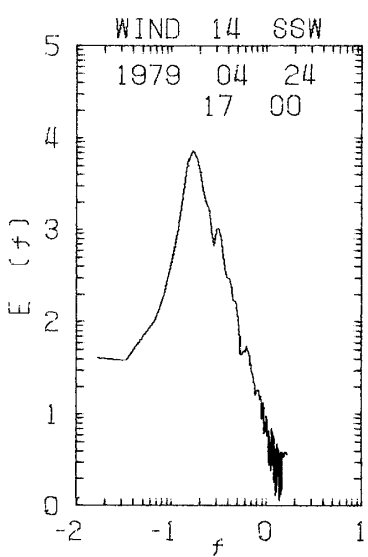
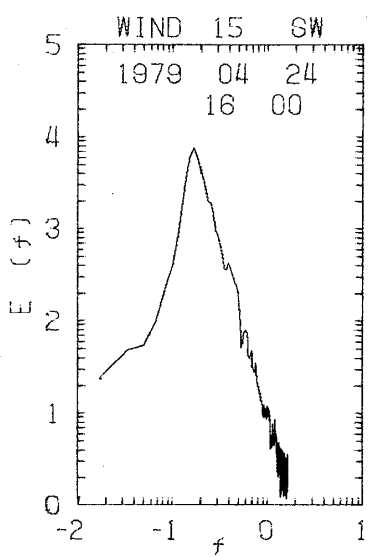
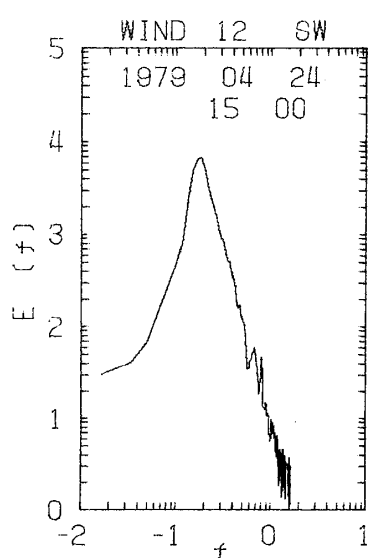
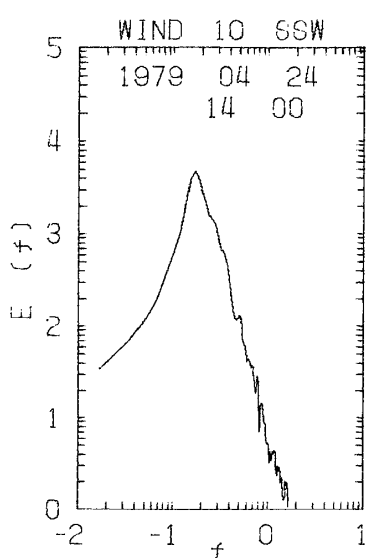
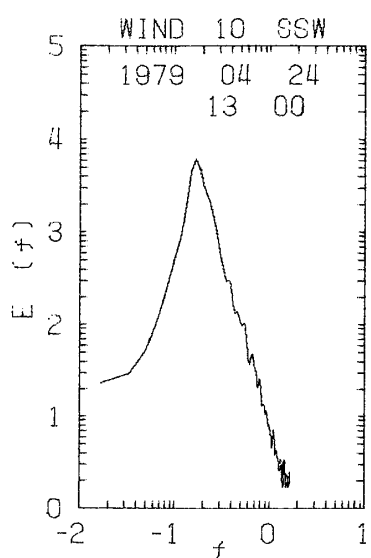
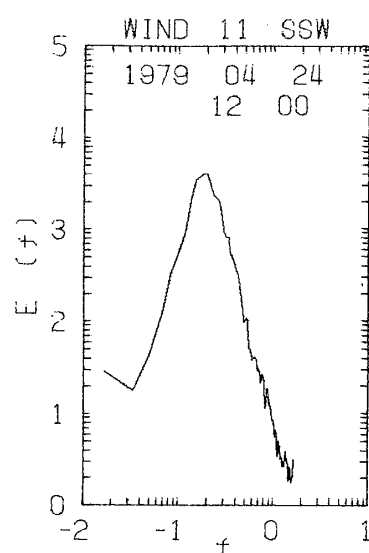
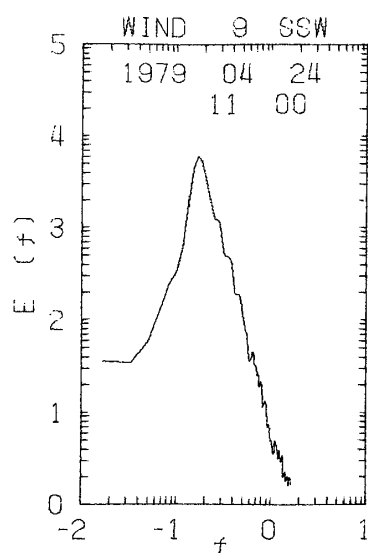
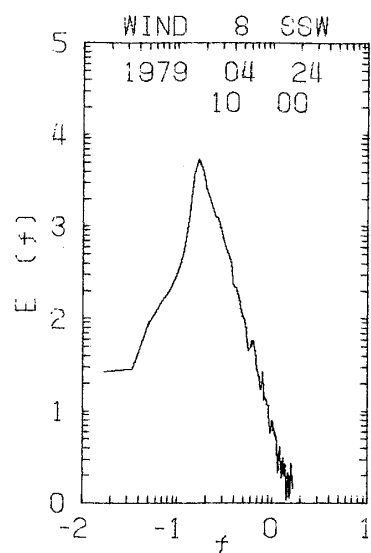
穏やかな海に、急に強い風が吹いたために、波のスペクトル分布は、風波成分のみの一つのピークをもつものとなっている。有義波の波高と周期は、それぞれ最初0.7 mと4秒であったが、4月23日18時以降は1.3～1.5 mと5秒になった。このように、うねりのない場合、約10 m/s の南南西の風が2時間ぐらい吹くと、周期5秒で、波高1.5 mの風波が発達することになる。

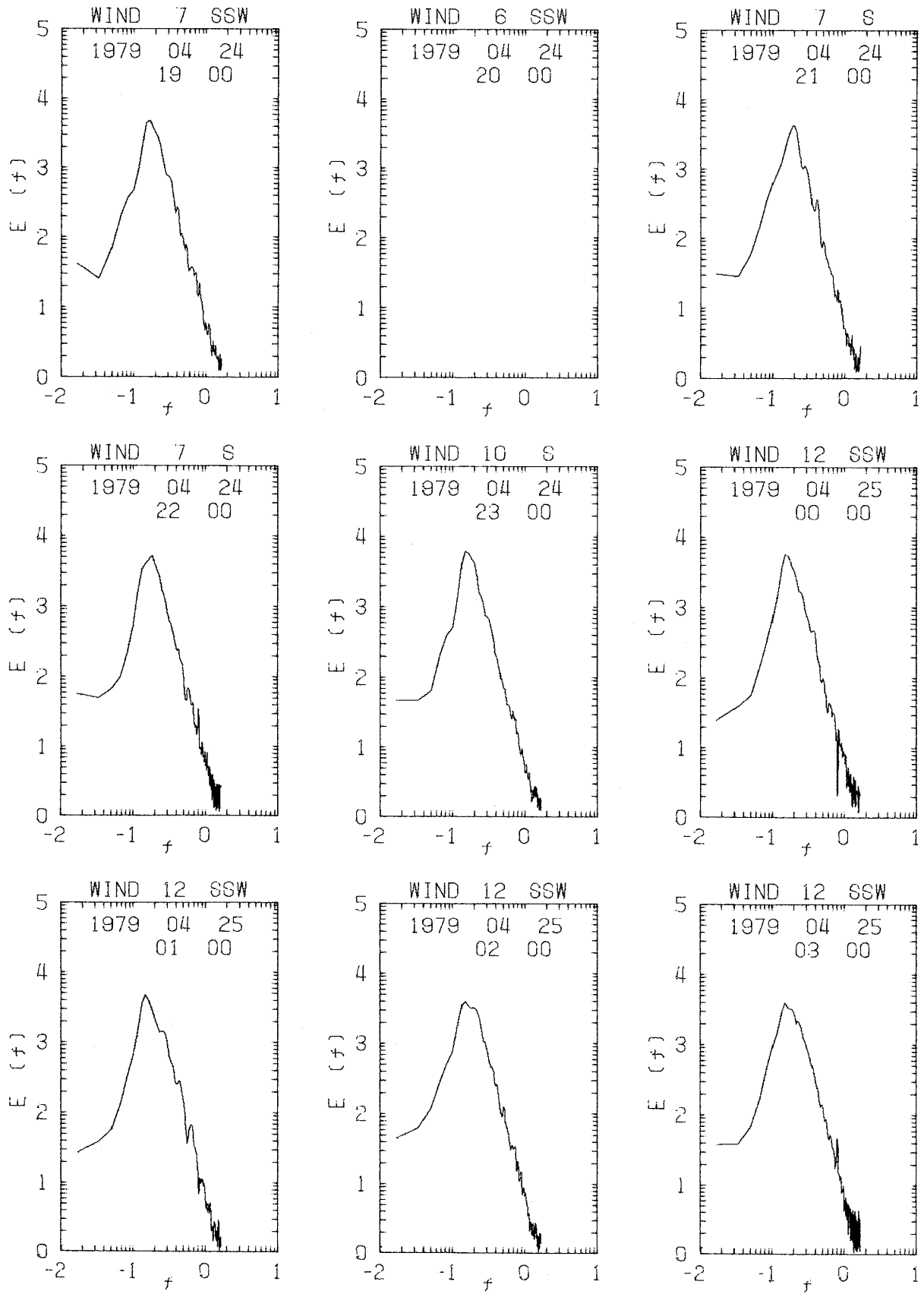


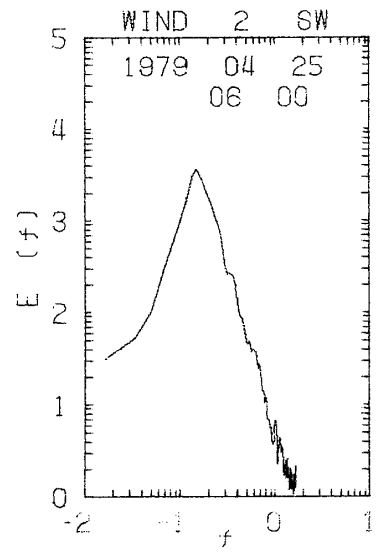
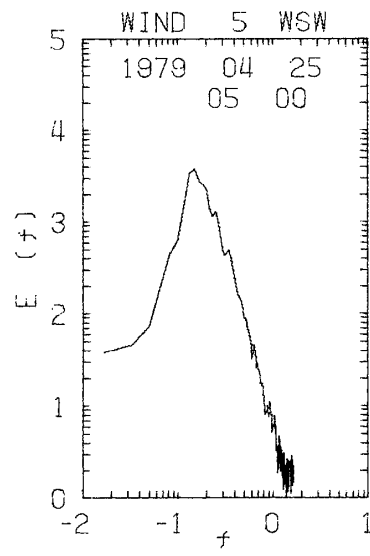
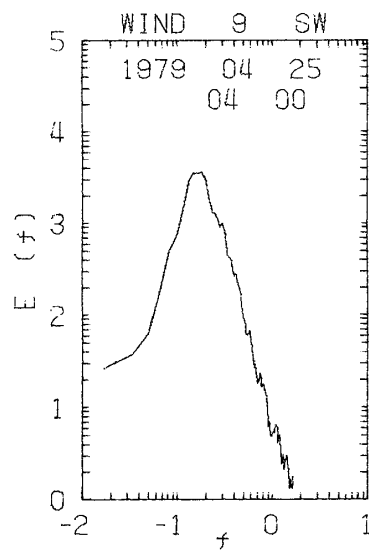












夏 期

1979年6月～1979年8月

HOUR	WAVE NUMBER	1979		06 01		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	200	52.4	3.8	83.1	3.6	118.1	3	WSW	1014
1	186	40.4	4.1	74.7	6.3	108.9	2	WSW	1014
2	167	39.2	5.0	68.5	8.1	104.8	0	-	1014
3	167	32.6	5.3	56.0	6.3	105.1	0	-	1014
4	161	28.7	5.5	42.5	7.5	113.6	3	N	1014
5	155	24.7	6.3	39.2	7.5	126.4	4	N	1014
6	158	25.0	6.3	47.6	6.6	136.3	4	N	1015
7	154	23.6	6.7	38.5	7.2	142.8	3	N	1015
8							2	SE	1015
9							3	SE	1016
10							3	SE	1016
11							6	S	1016
12							8	S	1015
13							11	S	1015
14	167	101.4	4.0	209.5	3.9	37.5	12	S	1015
15	165	108.5	4.2	163.7	4.5	38.9	12	S	1014
16	167	117.8	4.1	198.1	4.8	49.2	11	S	1014
17	169	103.9	4.3	191.2	4.5	68.5	10	S	1014
18	172	93.2	4.1	166.6	4.2	90.3	10	S	1015
19	177	85.1	4.0	138.8	3.9	112.9	9	S	1015
20	179	82.4	3.8	117.9	3.0	130.8	9	S	1016
21	184	79.9	3.8	140.3	3.6	142.5	9	S	1016
22	175	88.0	3.9	133.7	5.1	141.8	9	S	1016
23	184	77.8	3.9	124.1	3.6	133.8	10	S	1016

HOUR	WAVE NUMBER	1979		06 02		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	192	77.6	3.8	126.7	3.6	123.4	9	S	1016
1	197	68.2	3.6	102.2	3.3	111.2	9	SSW	1016
2	192	61.2	3.8	100.7	3.9	103.2	8	SSW	1016
3	187	60.2	3.7	94.1	3.9	98.2	8	SSW	1016
4	186	57.0	3.9	118.7	2.7	99.7	7	SSW	1016
5	200	59.5	3.7	86.4	3.3	106.6	8	SSW	1017
6	203	58.1	3.6	86.8	4.2	115.2	8	SSW	1017
7	185	55.2	4.3	82.4	8.4	123.0	7	SSW	1018
8	204	59.2	3.8	89.4	3.6	126.0	7	SSW	1018
9	201	53.6	4.1	83.1	6.3	123.5	7	SSW	1018
10	200	55.2	3.6	100.7	6.0	116.6	9	S	1018
11	195	66.3	3.7	115.7	2.7	103.7	10	S	1018
12	182	76.6	3.9	110.2	3.6	85.5	11	S	1018
13	180	87.9	3.8	130.4	3.6	68.0	12	S	1017
14	167	115.6	4.0	194.5	3.6	54.0	12	S	1017
15	168	121.4	4.2	226.3	3.9	48.0	13	S	1016
16	163	113.1	4.4	176.9	4.2	49.2	11	S	1016
17	169	102.4	4.2	150.1	3.9	60.4	10	S	1016
18	175	92.7	4.2	146.9	4.2	78.2	9	S	1017
19	165	91.5	4.2	145.0	3.9	96.5	8	S	1018
20	170	69.9	4.4	111.7	4.2	115.4	4	W	1018
21	169	62.8	4.4	91.6	3.9	130.8	5	S	1019
22	168	58.2	4.6	103.3	5.1	138.6	2	SW	1019
23	167	58.1	4.4	78.0	5.7	136.5	4	SSW	1019

HOUR	WAVE NUMBER	19/9		06 03		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	167	57.6	5.2	86.4	6.9	129.4	4	SSW	1019
1	171	52.3	4.8	80.9	5.9	119.7	1	SW	1019
2	153	46.9	5.5	65.2	5.7	106.9	3	SW	1019
3	151	45.9	5.6	87.5	4.5	97.9	0	-	1019
4	132	43.6	6.3	81.7	7.8	94.0	3	NNW	1019
5	126	49.0	7.3	69.9	7.2	92.9	4	N	1020
6	131	46.5	6.6	85.7	7.2	98.9	4	N	1020
7	147	44.6	6.1	93.8	6.6	103.4	3	N	1021
8	125	43.8	6.4	60.1	6.3	108.7	3	SE	1021
9	129	49.3	6.7	71.8	7.2	111.3	3	S	1021
10	127	51.6	7.1	83.1	8.1	108.3	4	S	1021
11	166	48.9	5.9	85.0	7.5	105.8	7	S	1021
12	189	44.7	4.5	77.6	3.0	96.5	7	S	1021
13	186	52.4	4.7	82.8	6.6	83.9	7	S	1021
14	196	55.5	4.0	96.5	3.6	70.8	7	S	1021
15	184	68.9	4.4	100.0	3.9	59.5	8	S	1020
16	171	77.7	4.5	114.6	3.0	55.9	8	S	1020
17	177	67.9	4.4	117.6	3.3	56.5	6	S	1021
18	166	68.9	4.6	105.8	10.2	66.6	4	SSE	1021
19	164	65.7	4.9	92.3	4.2	81.1	6	SSE	1022
20	166	49.4	4.6	76.2	3.3	96.6	5	SSE	1022
21	151	58.6	6.1	111.7	9.3	114.0	5	S	1023
22	130	70.9	7.2	121.6	8.4	125.7	6	S	1023
23	158	57.7	5.9	90.5	9.3	130.6	6	S	1023

HOUR	WAVE NUMBER	19/9		06 04		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	144	60.3	6.6	104.0	7.5	130.3	5	S	1023
1	120	64.0	7.7	102.9	8.7	122.3	3	WSW	1023
2	117	61.5	7.7	104.7	9.0	112.0	0	-	1023
3	101	74.8	8.5	111.3	8.4	98.9	0	-	1023
4	92	81.1	8.4	125.2	7.5	86.4	0	-	1023
5	110	70.0	8.3	122.7	9.6	79.3	2	N	1023
6	96	69.9	8.6	100.0	8.7	75.6	3	N	1024
7	97	69.5	8.4	123.8	8.1	77.5	3	N	1024
8	96	73.3	8.1	123.8	7.8	82.1	2	E	1024
9	85	76.2	8.5	106.9	9.3	89.2	2	SSE	1024
10	89	64.8	8.4	89.0	7.5	96.5	3	SE	1024
11	96	68.5	8.2	100.7	9.0	99.7	4	S	1024
12	100	63.9	8.4	96.7	7.2	100.2	4	S	1023
13	110	67.0	8.3	104.4	8.1	95.0	4	SSW	1023
14	110	64.8	7.9	107.7	7.2	82.5	4	SSW	1023
15	99	61.8	8.7	83.1	9.0	73.1	5	SSW	1022
16	124	59.9	7.8	87.5	8.7	61.1	6	S	1022
17	114	70.0	8.1	123.0	7.8	55.6	4	S	1022
18	128	70.4	7.2	109.5	9.0	58.8	6	S	1022
19	116	65.9	8.0	86.4	8.1	66.4	5	S	1022
20	117	70.5	7.8	116.5	10.2	79.3	5	SSE	1022
21	102	74.5	8.0	101.1	8.4	95.9	3	SE	1022
22	117	67.1	7.7	116.1	8.4	110.1	2	NW	1022
23	97	73.1	8.3	102.5	8.1	126.0	2	N	1022

HOUR	WAVE NUMBER	19/9		06 05		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	102	69.4	8.1	97.4	8.1	133.8	2	N	1022
1	97	64.7	7.7	89.4	8.1	131.2	3	N	1022
2	99	73.3	8.0	103.6	7.2	122.8	4	N	1022
3	114	65.1	7.7	99.2	8.1	110.6	3	N	1021
4	111	77.3	8.2	155.3	8.4	94.5	4	N	1021
5	106	71.4	8.1	102.2	8.1	83.0	4	N	1021
6	93	77.0	7.8	104.0	7.8	72.0	4	N	1021
7	95	75.1	7.8	112.4	8.1	66.7	3	N	1021
8	94	68.0	8.1	92.3	8.7	69.0	3	NNE	1021
9	89	69.1	8.4	116.1	8.4	75.9	3	E	1021
10	96	63.9	7.7	97.0	8.7	89.0	3	S	1021
11	94	77.9	8.2	109.1	8.1	98.4	4	SSE	1021
12	107	69.0	8.4	105.1	7.2	105.3	4	S	1020
13	123	74.8	7.7	111.3	7.5	109.4	5	SSW	1020
14	132	74.1	7.2	125.6	7.8	105.0	6	SSW	1019
15	111	90.6	7.9	125.6	9.3	97.9	6	S	1019
16	111	91.7	7.8	163.0	7.8	88.7	6	S	1018
17	139	79.7	6.6	140.6	9.3	77.0	6	S	1018
18	135	67.0	6.9	124.9	8.1	71.5	4	SW	1018
19	109	80.9	7.7	121.6	9.0	72.7	4	SW	1018
20	100	92.0	8.6	146.1	8.4	77.7	4	SSW	1019
21	107	93.1	8.1	152.0	8.7	94.5	4	SSW	1019
22	117	83.3	7.9	131.1	8.7	109.7	4	SW	1019
23	120	67.1	7.5	130.7	7.2	124.8	2	W	1019

HOUR	WAVE NUMBER	19/9		06 06		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	96	79.1	8.5	107.3	7.8	138.2	0	-	1019
1	107	79.1	8.1	122.7	9.9	141.4	3	N	1018
2	96	82.1	8.6	126.3	8.7	139.1	3	N	1018
3	99	77.0	8.5	118.3	8.4	125.7	3	N	1017
4	100	73.2	8.6	132.9	8.1	108.0	4	N	1017
5	96	81.6	8.9	120.8	7.8	91.0	4	N	1017
6	84	66.8	8.8	88.6	9.3	69.9	3	N	1018
7	101	57.6	8.4	99.2	8.4	58.8	2	N	1018
8	96	52.8	8.3	77.6	8.7	54.2	2	E	1018
9							3	SSE	1017
10							3	S	1017
11							4	S	1017
12	121	45.9	8.2	77.6	6.9	108.0	4	S	1016
13	157	42.7	6.5	79.8	8.1	120.9	6	S	1016
14							6	S	1015
15							7	S	1015
16							7	S	1014
17							7	S	1014
18	173	61.1	5.2	105.1	8.1	90.3	7	S	1014
19	165	64.9	5.3	120.1	8.1	82.7	7	S	1014
20	154	63.5	5.8	115.0	6.6	80.7	6	S	1014
21	134	62.0	6.9	99.2	9.0	88.3	4	S	1014
22	131	57.0	7.3	95.9	8.7	102.5	3	WSW	1014
23	151	49.9	6.4	73.6	9.9	121.8	3	SW	1014

		1979		06	07					
HOUR	WAVE NUMBER	H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	WIND VEL DIR	PRES		
0	108	73.4	8.1	111.0	8.4	137.9	3 WSW	1013		
1	117	62.6	7.7	111.3	7.8	149.7	3 SW	1013		
2	147	52.5	6.8	87.2	6.6	152.0	0 -	1013		
3	125	54.5	7.3	104.7	8.4	144.4	0 -	1012		
4	134	49.2	6.8	69.9	6.0	127.4	0 -	1012		
5	138	38.2	6.5	77.3	8.4	105.7	2 NW	1012		
6	130	36.0	7.3	63.4	7.8	81.4	0 -	1012		
7	138	38.8	6.7	64.8	7.2	60.4	0 -	1012		
8	113	46.6	7.6	65.2	8.1	45.1	2 S	1012		
9	126	42.2	7.0	61.2	8.7	42.1	2 S	1012		
10	111	47.6	7.6	68.1	6.9	49.9	2 S	1012		
11	121	45.3	7.5	89.4	7.5	69.0	3 S	1012		
12	116	46.8	7.9	87.2	8.4	91.5	3 S	1011		
13	107	47.5	7.9	76.9	7.8	115.2	3 SW	1010		
14	119	43.1	7.4	68.5	7.5	133.6	2 S	1010		
15	147	45.1	6.5	69.6	7.2	140.4	2 S	1009		
16							0 -	1009		
17							4 ESE	1008		
18							6 ESE	1007		
19							5 ESE	1007		
20							7 SSE	1006		
21							0 -	1005		
22							4 NW	1004		
23							4 NNW	1003		

		1979		06	08				
HOUR	WAVE NUMBER	H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	WIND		PRES
							VEL	DIR	
0							3	NNW	1002
1							0	-	1002
2							0	-	1001
3							3	WSW	1001
4							4	SSW	1001
5							0	-	1000
6							0	-	1000
7							0	-	1000
8							0	-	1000
9							0	-	1000
10							2	SSW	1000
11							8	S	1000
12							10	SSW	1000
13							13	SSW	1000
14							15	SSW	1000
15							14	SSW	1001
16							13	SSW	1001
17							12	SSW	1002
18	107	169.8	7.5	246.8	7.5	135.9	12	SW	1002
19	114	164.6	7.0	300.3	7.2	118.4	14	SW	1003
20	105	158.3	6.9	247.6	7.8	102.8	10	SW	1004
21							7	SSW	1005
22							10	SW	1005
23							4	SW	1005

平塚沖波浪観測資料(2) — 渡部・徳田

HOUR	WAVE NUMBER	19/9		06	09	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0							9	SSW	1005
1							10	SSW	1004
2							10	SSW	1004
3							8	SSW	1005
4							6	SW	1006
5							7	SW	1006
6	136	111.1	6.3	176.9	6.6	107.4	8	SW	1006
7	150	99.7	5.7	146.5	8.4	73.6	9	WSW	1006
8	135	110.1	6.2	192.3	6.9	41.6	9	SW	1006
9	142	88.1	6.3	116.1	6.6	20.7	6	SSW	1007
10	121	82.7	6.9	124.5	6.0	10.3	6	S	1007
11	112	98.1	7.3	148.7	6.0	19.8	6	S	1008
12							6	SSW	1008
13							5	S	1007
14	153	96.8	5.4	170.3	4.8	112.0	7	S	1007
15	146	104.2	5.4	172.1	6.3	137.0	7	S	1008
16	145	102.8	5.5	175.8	5.1	155.4	4	SW	1008
17							5	S	1008
18							5	S	1009
19							4	SW	1010
20	160	80.6	5.0	132.2	5.1	110.4	3	SW	1010
21	156	73.7	4.9	118.3	5.1	92.0	4	W	1011
22	143	70.6	5.4	97.4	4.8	86.6	2	W	1012
23	122	57.7	6.2	90.1	6.9	89.4	3	NNW	1012

HOUR	WAVE NUMBER	19/9		06	10	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	132	57.0	6.1	100.7	6.3	105.1	4	N	1012
1	113	68.8	7.0	105.8	7.2	123.4	3	N	1013
2	118	62.7	6.8	108.4	6.6	145.7	3	N	1013
3	128	65.6	6.4	93.8	6.6	161.8	5	NNE	1013
4							5	NNE	1014
5							3	N	1014
6							4	N	1015
7							4	N	1015
8							3	N	1015
9	120	50.6	6.4	78.4	6.9	15.2	5	S	1015
10	135	48.1	6.3	66.7	6.6	-4.6	4	S	1015
11	126	48.0	6.3	70.3	4.5	-7.3	3	S	1014
12	106	47.3	5.6	66.7	6.6	9.7	6	SSW	1014
13	166	44.6	5.9	76.2	7.2	42.8	4	SSW	1013
14	134	52.3	6.9	87.5	7.5	79.5	4	SW	1013
15	173	47.8	5.6	108.0	7.8	115.8	6	SSW	1013
16	168	51.5	5.5	82.8	7.8	145.1	4	S	1013
17	171	56.1	4.9	82.0	6.3	161.6	5	S	1013
18	185	61.7	4.5	94.8	3.6	162.0	7	S	1012
19	182	58.0	4.5	96.3	3.9	150.6	4	SSW	1012
20	169	54.9	5.1	86.8	4.8	126.7	2	SW	1012
21	150	49.5	5.5	71.4	3.9	106.0	3	S	1012
22	156	49.5	5.5	80.2	7.2	90.6	2	SW	1011
23	176	54.5	4.5	82.4	6.6	89.2	8	S	1011

HOUR	WAVE NUMBER	1979		06		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	164	59.4	4.8	101.1	6.0	97.5	6	SSW	1011
1	164	68.7	5.0	101.8	5.4	116.5	1	WSW	1011
2	164	66.0	4.6	105.8	3.9	140.5	3	S	1010
3	175	52.9	4.9	96.3	9.0	158.9	6	SSW	1009
4	182	47.0	4.7	82.0	6.3	171.2	3	WSW	1009
5	163	46.3	5.1	72.1	6.9	168.1	6	ESE	1008
6	159	45.7	5.7	80.6	8.1	145.7	2	W	1007
7	140	40.0	6.4	62.6	10.2	114.9	4	SSW	1008
8	152	39.6	6.3	67.0	7.2	78.2	3	S	1007
9	177	42.5	4.8	64.8	5.7	36.1	5	SSW	1006
10	170	53.0	4.5	72.9	6.6	8.5	5	S	1006
11	190	53.0	3.8	85.3	4.2	-6.0	5	SSW	1005
12	157	70.3	4.7	105.5	6.6	0.5	2	S	1004
13	165	85.3	4.5	143.9	5.4	24.2	7	S	1005
14	160	91.0	4.9	147.2	5.1	58.6	8	S	1005
15	154	107.5	4.9	160.0	3.9	100.7	9	SW	1005
16	171	96.6	4.5	178.7	4.2	139.1	10	SW	1003
17	168	92.8	4.5	143.6	4.5	167.1	7	WSW	1002
18	177	79.0	4.2	126.0	3.9	182.7	4	W	1003
19	173	73.9	4.3	97.0	5.1	178.9	1	W	1004
20	173	65.4	4.5	93.0	6.0	162.7	0	-	1005
21	149	69.5	4.7	111.3	5.4	141.1	0	-	1005
22	150	60.1	5.0	94.8	6.9	119.7	3	SW	1006
23	149	67.9	4.9	121.2	5.1	104.8	2	W	1006

HOUR	WAVE NUMBER	1979		06		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	146	74.3	5.0	107.3	4.2	104.6	2	W	1006
1	153	79.7	4.8	119.4	4.8	116.5	5	SW	1005
2	147	89.3	5.1	129.3	5.7	135.9	0		0
3	155	88.5	4.9	126.7	4.2	160.4	1	E	1005
4	143	78.5	4.9	152.0	5.4	175.1	2	E	1006
5	150	64.2	4.8	97.8	4.8	180.4	3	N	1006
6	149	48.2	5.4	72.9	6.9	173.5	3	N	1006
7	154	53.3	5.1	89.7	3.9	149.4	3	N	1007
8	158	51.0	5.2	78.0	3.9	111.0	4	N	1007
9	154	50.8	5.4	87.9	5.4	70.3	4	N	1007
10	144	47.2	5.5	67.4	6.3	31.0	4	N	1007
11	145	41.7	5.6	66.7	6.6	5.7	4	N	1006
12							3	N	1006
13							3	SSE	1006
14	128	47.5	6.0	76.9	6.0	35.9	4	S	1006
15	165	38.7	5.3	80.9	5.4	71.5	4	S	1006
16	189	34.0	4.7	50.5	5.4	111.0	4	S	1006
17							3	SSW	1006
18	200	30.7	4.3	64.1	6.3	170.6	1	S	1006
19	154	28.4	5.9	47.6	6.0	178.2	3	ESE	1006
20	168	24.8	5.5	38.8	6.3	174.0	3	ESE	1006
21							2	N	1007
22	138	23.4	6.6	41.7	6.3	136.3	2	N	1007
23	136	23.0	6.4	38.1	9.3	112.4	2	N	1008

HOUR	WAVE NUMBER	1979		06 13		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	151	23.1	6.1	37.0	4.5	100.7	2	N	1008
1	119	36.0	6.6	49.8	6.6	106.7	2	N	1008
2	138	24.7	6.3	41.7	6.3	121.8	2	N	1008
3	120	26.6	6.8	35.9	6.6	140.0	1	N	1008
4	142	27.5	6.4	46.9	7.8	160.0	2	NNW	1008
5	139	29.9	6.5	43.2	6.9	174.0	2	N	1009
6	113	48.4	7.2	84.2	6.6	175.4	3	NNE	1009
7	144	37.0	6.3	63.7	5.7	161.4	4	NNE	1010
8	132	38.7	6.7	56.0	6.0	133.1	3	N	1011
9	138	33.6	6.7	52.4	6.9	94.3	5	N	1010
10	151	28.4	6.4	50.2	7.8	56.1	4	N	1010
11	144	31.0	6.5	60.1	6.6	22.5	4	NNE	1011
12	145	27.6	6.5	44.7	4.8	1.2	4	NE	1011
13	138	29.6	6.4	59.7	7.5	-2.7	4	ENE	1011
14	128	43.8	6.2	79.1	7.2	12.9	2	N	1011
15	158	34.4	5.9	46.1	6.3	40.5	2	S	1011
16	169	33.3	5.2	61.2	5.7	76.6	3	SW	1011
17	149	32.7	6.1	48.3	7.2	114.9	3	SW	1011
18	146	32.8	5.8	52.4	6.3	146.9	0	-	1011
19	140	28.5	6.1	41.7	11.7	165.3	0	-	1012
20	185	28.8	5.4	49.4	8.7	169.7	3	ENE	1012
21							3	NE	1013
22							4	NNE	1013
23							4	NNE	1014

HOUR	WAVE NUMBER	1979		06 14		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0							5	NNE	1014
1							4	NNE	1015
2							5	NNE	1014
3							5	NNE	1014
4							5	NNE	1015
5							6	NNE	1015
6							5	NNE	1015
7							6	N	1016
8							6	N	1016
9							6	N	1017
10							6	NNE	1017
11							7	NNE	1017
12							7	NNE	0
13	241	20.1	3.9	38.8	10.8	2.5	7	NNE	0
14	239	19.3	4.0	31.9	7.8	4.8	6	NNE	1017
15	249	17.7	3.8	42.1	9.9	20.7	6	NNE	1017
16	199	20.6	5.1	35.5	9.6	49.6	7	NNE	1017
17							6	N	1018
18							5	NNE	1018
19	224	19.7	4.4	37.4	8.4	141.2	6	NNE	1018
20	208	21.1	5.0	40.6	7.2	154.3	5	NNE	1018
21	194	19.2	5.6	32.2	8.1	157.4	4	NNE	1019
22	173	21.4	6.0	41.4	7.8	145.1	4	N	1019
23	159	20.2	6.2	38.1	11.1	126.7	3	N	1019

HOUR	WAVE NUMBER	1979		06 15		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	121	24.8	7.2	43.6	9.0	108.3	1	N	1019
1	127	24.4	6.9	35.2	7.5	92.4	3	NNW	1019
2	143	22.7	7.2	41.0	9.0	88.5	3	NNW	1019
3	120	26.3	7.1	37.7	7.5	94.5	2	NNW	1020
4	144	25.3	6.4	47.2	7.5	108.9	3	N	1020
5							3	N	1021
6							2	N	1021
7							2	N	1022
8	132	32.6	6.8	54.9	5.7	140.9	2	SSE	1022
9	143	33.7	6.3	54.2	7.8	123.9	4	S	1022
10	156	27.7	6.1	52.0	7.2	98.8	4	S	1022
11	141	29.4	6.5	43.6	6.3	67.4	3	SSW	1022
12	137	30.5	7.2	46.5	8.1	36.5	3	SSW	1022
13	156	27.9	6.6	48.3	9.6	13.5	4	SW	1022
14	188	25.8	5.4	43.6	9.6	6.4	5	SSW	1022
15	177	26.7	5.8	51.3	7.2	12.6	4	SSW	1022
16	171	28.1	5.7	53.1	9.9	28.0	5	SSW	1022
17	148	36.1	6.5	63.7	9.3	54.7	3	SSW	1022
18	159	32.0	5.8	56.8	6.6	86.6	4	S	1022
19	179	33.2	5.2	52.4	7.2	114.5	5	SSW	1022
20	184	37.6	5.1	60.8	8.4	136.6	5	SSW	1023
21	167	35.5	5.5	54.2	6.9	142.7	4	SSW	1023
22	166	38.2	5.6	52.7	6.0	140.9	4	S	1023
23	176	38.5	5.0	60.1	6.6	130.8	5	S	1023

HOUR	WAVE NUMBER	1979		06 16		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	157	35.4	5.5	58.6	5.4	111.7	3	SW	1023
1	174	31.0	5.1	49.8	6.0	95.6	2	SSW	1023
2	136	32.8	6.5	48.7	7.5	85.1	0	-	1023
3	143	29.4	6.3	42.8	7.5	81.6	0	-	1023
4	158	30.9	5.7	48.3	6.3	86.9	0	-	1023
5	144	33.9	6.2	51.6	6.6	102.5	0	-	1023
6	131	34.8	6.6	54.2	6.6	117.0	0	-	1024
7	142	37.3	5.9	55.3	8.7	124.4	0	-	1024
8							3	SSE	1024
9							3	S	1023
10							5	S	1023
11							7	S	1023
12	208	62.7	3.3	101.4	3.3	60.9	7	S	1023
13	198	67.9	3.1	106.9	2.7	37.5	8	SSE	1022
14	203	66.1	3.4	89.7	3.6	21.6	8	SSE	1022
15	203	77.7	3.5	119.0	3.3	18.2	10	S	1021
16	188	80.2	3.7	137.3	3.9	26.2	9	S	1021
17							9	S	1020
18							9	S	1020
19	183	60.8	4.2	111.7	3.3	92.6	8	SSW	1020
20	168	59.2	4.6	93.0	6.9	116.1	3	SW	1021
21	186	59.0	4.2	86.8	4.2	134.0	3	WSW	1021
22	158	58.4	5.2	101.8	5.1	139.7	5	SSW	1021
23	151	64.6	5.4	93.8	6.6	135.9	3	SSW	1021

HOUR	WAVE NUMBER	1979		06	17	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	166	63.6	4.5	101.8	3.6	123.2	3	SW	1021
1	155	60.3	5.6	109.1	3.6	107.3	6	SSW	1020
2	142	62.1	6.3	90.8	4.8	91.0	5	SSW	1020
3	151	53.3	6.1	78.7	5.7	80.5	3	SSW	1020
4	140	44.9	6.3	76.9	9.3	75.9	2	N	1021
5	137	45.7	6.2	90.8	10.5	81.4	2	N	1021
6	133	44.4	6.1	58.2	7.2	91.7	2	NNE	1021
7	140	44.9	5.7	62.6	6.3	103.2	2	N	1021
8	165	44.9	5.1	74.3	6.3	113.1	3	SE	1022
9	160	47.0	5.0	64.8	9.0	119.8	3	S	1022
10	174	39.8	5.3	63.4	3.9	118.8	5	S	1021
11	154	41.6	6.0	60.8	6.6	108.5	5	S	1021
12	153	48.6	6.2	89.4	8.7	93.1	6	S	1020
13	165	38.1	6.1	64.5	7.5	72.7	5	S	1020
14	181	36.7	4.9	57.5	9.3	54.0	4	SE	1019
15	193	38.4	4.1	67.4	8.4	42.5	6	S	1019
16	174	47.4	4.9	74.7	9.0	38.8	7	S	1018
17	193	48.3	3.8	73.6	6.0	47.1	8	S	1018
18	180	62.7	4.3	100.3	3.6	62.7	8	SSW	1017
19	191	56.5	4.1	83.5	3.9	83.0	5	SW	1018
20	201	47.6	4.0	69.9	3.6	106.9	4	SW	1018
21	183	47.0	4.1	70.3	3.6	128.0	4	WSW	1018
22	183	42.1	4.3	63.0	8.7	140.2	5	SSW	1018
23	183	51.1	4.4	79.1	3.3	144.4	4	SW	1018

HOUR	WAVE NUMBER	1979		06	18	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	170	50.4	4.8	87.9	4.2	139.8	5	SW	1018
1	171	47.7	4.6	71.8	4.2	126.7	5	W	1018
2	181	51.4	4.2	82.0	3.9	108.3	5	SW	1017
3	165	50.7	5.4	69.6	6.9	90.4	5	SW	1017
4	175	45.9	4.5	69.2	4.8	76.3	2	WSW	1017
5	169	47.1	5.0	74.3	6.3	67.6	5	SSW	1017
6	170	49.5	4.6	75.1	7.2	69.4	5	SSW	1017
7	155	53.5	5.5	84.2	4.5	80.2	5	S	1017
8	169	56.6	4.8	112.4	8.1	89.7	6	SSW	1016
9	188	61.9	4.0	117.2	3.6	102.8	7	S	1015
10	199	69.1	3.8	111.3	5.4	111.9	9	SSW	1015
11	198	76.8	3.6	122.7	4.8	116.6	9	SSW	1014
12	185	90.8	3.7	171.4	3.3	113.3	10	SW	1013
13	202	82.4	3.7	134.0	3.6	104.8	11	SSW	1012
14	182	95.9	4.0	188.2	4.2	92.9	10	SW	1012
15	158	108.4	4.6	162.6	4.2	79.6	10	SW	1012
16	163	114.7	4.3	196.7	4.2	69.9	10	SW	1012
17	150	116.4	4.8	204.3	4.5	67.6	8	WSW	1011
18	173	100.2	4.5	162.2	5.1	73.8	5	W	1012
19	151	94.3	4.8	148.7	4.8	83.5	3	WSW	1012
20	151	87.2	4.8	138.1	5.1	103.9	5	WSW	1013
21	155	95.6	4.7	127.8	3.9	124.1	4	SW	1013
22	160	108.1	4.5	155.6	4.5	141.2	3	W	1013
23	163	103.0	4.3	145.8	4.2	152.8	10	SW	1012

HOUR	WAVE NUMBER	1979		06	19	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	173	96.2	4.3	149.0	4.8	152.6	9	SW	1012
1	173	98.8	4.2	164.8	4.2	146.4	10	SW	1012
2	177	86.1	4.2	132.2	4.2	133.1	9	SW	1012
3	163	85.4	4.4	127.4	5.1	113.8	9	SSW	1012
4	170	83.2	4.5	154.9	4.8	92.0	8	SSW	1012
5	170	81.4	4.2	144.7	4.8	76.5	10	SW	1012
6	163	86.7	4.4	139.9	3.0	67.8	10	SW	1011
7	169	87.3	4.3	146.9	4.2	65.5	8	SW	1011
8	162	89.9	4.5	152.7	5.1	74.2	8	SW	1011
9	156	85.5	4.6	140.6	7.5	86.2	6	SSW	1011
10	150	81.4	5.1	122.3	4.5	102.1	6	SW	1011
11	171	74.3	4.6	110.6	6.0	115.6	7	S	1011
12	177	92.6	4.2	132.9	5.1	126.4	10	SW	1010
13	170	75.8	4.7	128.2	6.3	128.1	9	SW	1010
14	179	74.8	4.4	118.3	6.0	126.6	9	SW	1010
15	173	79.9	4.6	154.5	4.5	116.6	9	SW	1010
16	164	93.1	4.6	180.3	4.8	103.0	8	W	1010
17	153	103.8	4.6	158.9	4.8	92.6	5	S	1010
18	153	110.2	4.7	192.3	5.1	87.4	8	SSW	1010
19	182	86.7	4.2	158.9	3.9	88.7	5	WSW	1011
20	164	87.0	4.4	152.0	3.6	98.1	9	SSW	1011
21	169	90.0	4.6	144.7	4.5	111.7	7	SSW	1012
22	170	85.3	4.2	124.9	3.9	127.8	10	SSW	1012
23	181	89.2	4.1	137.3	4.8	145.7	10	SSW	1012

HOUR	WAVE NUMBER	1979		06	20	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	166	84.4	4.3	124.9	3.3	154.5	5	SW	1012
1	175	79.3	4.2	114.6	4.8	156.8	9	SSW	1011
2	174	68.8	4.7	104.0	6.3	148.1	4	SW	1011
3	165	69.7	4.4	117.9	3.9	131.2	4	SSW	1011
4	169	73.5	4.5	119.0	3.9	108.1	7	SSW	1011
5	181	68.0	4.4	97.4	4.2	86.9	9	SW	1011
6	175	68.9	4.4	106.9	3.6	66.6	8	SW	1012
7	171	61.9	4.8	112.1	5.1	54.9	6	SSW	1012
8	152	61.8	5.1	88.3	5.1	50.8	6	SSW	1012
9	175	68.4	4.3	122.7	4.5	56.6	8	SSW	1011
10	174	84.8	4.5	159.7	6.6	72.6	10	SSW	1011
11	172	93.3	4.2	140.6	3.0	92.0	10	SSW	1011
12	179	102.5	4.1	149.0	3.6	112.9	12	SW	1011
13	172	86.3	4.2	160.0	4.8	127.3	10	S	1011
14	176	91.9	4.1	147.9	4.5	135.1	8	S	1011
15	157	115.7	4.5	190.4	4.5	133.8	7	SSW	1011
16	166	97.9	4.6	141.7	4.5	126.9	7	SSW	1011
17	181	97.4	4.2	152.3	4.2	114.3	9	SW	1011
18	161	105.5	4.5	164.8	4.8	103.9	8	SW	1011
19	167	90.3	4.4	143.9	3.9	98.2	8	SW	1011
20	158	93.0	4.5	129.6	5.1	97.3	7	SSW	1012
21	171	91.5	4.0	134.4	5.1	107.4	11	SW	1012
22	174	100.0	4.3	160.8	3.9	122.1	10	SSW	1012
23	169	109.1	4.2	152.3	4.8	137.5	10	SSW	1012

HOUR	WAVE NUMBER	19/9		06 21		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	168	111.2	4.2	179.8	4.2	153.6	12	SSW	1012
1	168	111.9	4.1	194.5	4.2	163.2	11	SSW	1011
2	170	120.3	4.3	164.1	4.2	160.5	13	SW	1011
3	167	133.8	4.2	184.9	5.1	150.6	14	SW	1011
4	173	117.4	4.6	169.9	4.5	132.0	13	SW	1011
5	171	112.9	4.3	179.4	5.1	106.2	12	SW	1012
6	172	112.5	4.3	167.4	4.8	80.9	14	SW	1012
7	173	97.2	4.2	134.4	5.7	56.8	11	SW	1012
8	155	107.1	4.6	158.6	3.6	43.5	10	SW	1012
9	157	100.6	4.6	163.0	4.8	41.9	10	SW	1012
10	145	113.1	4.5	212.8	4.8	49.0	8	SW	1012
11	157	102.3	4.6	227.8	4.2	70.8	8	SW	1012
12	151	107.7	4.6	164.1	4.2	97.7	8	SW	1012
13	168	102.0	4.6	150.1	5.4	117.2	8	SW	1012
14	152	104.7	4.6	162.2	5.1	139.1	9	SSW	1012
15	160	96.8	4.4	146.5	3.9	147.6	7	SSW	1012
16	168	108.4	4.4	149.8	5.1	143.5	7	SW	1012
17	170	109.6	4.3	154.9	5.4	135.8	9	SW	1012
18	164	105.0	4.4	147.9	4.5	122.3	9	SW	1012
19	174	98.0	4.4	155.6	4.5	109.0	8	SW	1012
20	177	83.6	4.3	117.9	2.7	103.0	5	SW	1013
21	165	85.9	4.3	127.8	4.5	103.0	6	SW	1014
22	182	81.9	4.0	134.8	4.2	111.3	5	WSW	1014
23	170	87.0	4.5	146.1	3.9	126.4	7	WSW	1014

HOUR	WAVE NUMBER	19/9		06 22		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	171	96.6	4.4	150.9	4.2	143.0	4	W	1014
1	169	95.1	4.6	134.4	3.6	155.2	5	WSW	1014
2	179	82.1	4.5	120.5	4.5	163.5	1	N	1014
3	180	73.9	4.2	113.2	3.6	158.8	7	SW	1014
4	181	68.7	4.2	137.7	4.5	144.4	4	SW	1015
5	177	75.5	4.2	116.5	4.2	120.9	6	SW	1015
6	178	65.5	4.1	95.9	2.7	89.7	3	SW	1015
7	158	69.9	4.7	111.3	4.2	59.1	5	SW	1016
8	175	62.2	4.3	93.8	4.8	34.0	5	SW	1016
9	182	56.9	4.1	89.0	3.9	21.4	7	SSW	1015
10	197	57.9	4.0	87.5	3.6	24.1	9	SSW	1015
11	193	70.5	3.6	110.2	3.0	41.6	11	S	1015
12	186	78.3	3.8	123.4	3.0	67.4	10	S	1015
13	176	93.2	4.0	171.0	3.3	95.2	9	SSW	1014
14	175	94.0	4.0	159.3	3.9	122.1	8	S	1014
15	186	96.7	3.9	171.4	3.9	140.5	10	SW	1014
16	167	108.6	4.3	160.0	3.9	147.4	8	SW	1014
17	161	107.0	4.5	192.3	5.1	146.4	10	SW	1014
18	160	105.1	4.4	182.4	4.5	137.0	7	SW	1014
19	162	98.5	4.5	140.3	3.6	122.1	5	SW	1014
20	172	93.6	4.2	156.7	4.2	108.9	5	WSW	1015
21	182	79.6	4.3	126.7	3.9	102.0	5	WSW	1015
22	169	78.5	4.3	132.9	4.2	103.7	7	SW	1015
23	177	77.8	4.3	130.0	3.6	111.7	7	SW	1015

HOUR	WAVE NUMBER	19/9		06 23		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	176	63.2	4.3	94.5	3.6	125.8	3	SW	1015
1	169	74.0	4.2	104.0	4.5	144.3	2	SW	1015
2	191	70.0	4.2	98.9	4.8	157.5	6	SW	1015
3	188	88.5	3.7	153.4	3.9	161.4	5	W	1015
4	201	71.7	3.6	122.5	3.0	155.4	7	SW	1015
5							5	WSW	1015
6							5	SW	1016
7							5	SW	1016
8	199	65.8	3.6	107.7	3.3	42.3	8	SW	1016
9	205	62.2	3.4	100.0	3.6	17.5	10	SSW	1016
10	187	55.2	3.7	91.2	3.3	10.1	9	SSW	1015
11	193	56.3	3.7	82.0	3.6	19.8	8	S	1015
12	186	80.1	3.6	160.0	3.6	41.1	7	SW	1015
13	175	82.2	4.1	111.3	4.2	70.6	8	S	1014
14	182	93.4	4.1	147.9	4.2	102.7	9	SW	1013
15	171	96.2	4.1	139.2	4.2	133.3	10	SW	1013
16	186	84.8	3.9	131.1	4.8	153.1	11	SW	1012
17	184	99.9	4.3	154.5	4.5	156.8	9	SW	1012
18	170	99.4	4.4	151.6	4.2	152.4	10	SW	1012
19	178	101.6	4.4	183.8	4.8	139.3	9	SW	1013
20	182	82.7	4.1	130.0	3.3	124.8	6	SW	1013
21	164	79.3	4.5	124.1	3.6	112.6	5	SW	1013
22	182	70.6	4.0	128.9	4.5	105.7	5	SW	1013
23	173	68.1	4.1	115.7	5.7	109.7	5	SW	1013

HOUR	WAVE NUMBER	19/9		06 24		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	188	61.8	4.3	121.6	4.2	122.3	5	SSW	1013
1	171	61.4	4.3	102.5	4.8	139.3	5	SW	1013
2	162	58.1	4.5	84.6	4.2	156.1	4	SW	1013
3	166	60.1	4.5	109.5	4.5	166.9	3	WSW	1012
4	182	54.3	4.4	85.3	4.2	169.0	0	-	1013
5	172	47.9	4.4	87.2	4.2	157.7	3	NNW	1013
6	170	47.3	4.9	74.0	4.2	132.0	0	-	1013
7	169	50.9	4.2	79.8	4.2	97.2	3	SE	1014
8	174	45.0	4.1	74.7	3.9	60.0	3	SSW	1014
9	169	46.4	4.2	64.1	4.8	26.4	2	SSW	1014
10	150	44.5	5.1	64.5	5.4	6.4	4	SW	1013
11	167	39.9	4.8	62.6	4.2	6.5	4	SSW	1013
12	161	46.2	4.7	73.2	4.8	19.8	3	SSW	1013
13	158	48.4	4.9	72.9	4.5	48.1	5	S	1012
14	176	54.3	4.6	81.3	8.1	86.7	7	S	1011
15	217	51.0	3.5	85.7	3.3	119.8	9	S	1010
16	207	61.9	3.4	95.6	3.3	149.0	8	SSW	1010
17	199	54.9	3.7	79.1	4.2	162.1	5	SSW	1010
18	201	58.1	3.8	89.7	3.6	162.7	2	S	1010
19	179	60.5	4.1	91.9	3.9	152.0	0	-	1010
20	186	66.4	4.3	105.8	3.6	137.7	4	W	1011
21	182	61.3	4.5	108.4	4.8	121.1	5	W	1011
22	177	58.2	4.1	89.7	3.6	106.6	0	-	1011
23	171	53.2	4.3	78.7	4.2	99.5	0	-	1011

HOUR	WAVE NUMBER	19/9		06 25		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	160	48.2	4.9	87.2	6.3	109.6	0	-	1011
1	148	52.6	5.2	78.0	4.2	127.3	2	N	1011
2	148	52.4	4.9	81.7	4.8	146.7	2	N	1011
3	145	50.9	5.3	90.8	5.7	163.4	3	NNW	1011
4	141	52.0	5.8	82.8	6.3	170.3	2	NNW	1011
5	138	57.7	5.7	77.6	7.2	166.2	1	NNW	1012
6	143	59.8	5.8	100.3	6.0	149.9	2	NNW	1012
7	131	52.9	5.9	83.1	6.3	117.5	2	N	1013
8	129	51.2	5.6	80.9	5.7	77.0	4	NE	1013
9	131	44.0	6.0	66.7	6.0	41.9	3	NE	1012
10							4	SW	1012
11	132	32.3	6.0	48.3	6.6	1.9	4	SW	1012
12	129	41.0	6.1	52.4	6.6	8.7	3	SW	1012
13	137	53.0	6.1	86.1	6.0	29.6	4	SSW	1011
14	147	64.6	5.4	89.0	5.1	64.1	5	SSW	1011
15	172	66.6	5.0	90.1	4.8	99.8	4	SW	1011
16	178	60.1	4.7	104.0	3.6	134.2	5	SSW	1010
17	154	58.7	5.5	89.0	6.3	157.0	5	S	1010
18	172	56.0	5.1	88.6	4.8	168.1	4	SW	1010
19	178	59.7	4.4	91.6	3.3	163.0	4	SW	1010
20	188	58.7	4.2	113.2	3.9	146.4	3	W	1010
21	174	60.1	4.4	85.0	6.6	130.6	3	SW	1011
22	171	58.6	4.8	78.4	6.9	111.7	2	S	1011
23	152	59.2	5.1	94.1	6.0	99.3	2	E	1011

HOUR	WAVE NUMBER	19/9		06 26		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	156	59.8	5.0	102.2	6.3	101.1	3	NNE	1011
1	131	61.2	6.0	100.7	4.5	110.6	3	N	1010
2	135	58.7	5.5	91.2	5.7	130.6	2	W	1010
3	133	61.5	5.8	96.3	5.1	152.2	0	-	1010
4	138	61.6	5.6	100.0	6.9	165.5	0	-	1010
5	130	65.7	5.9	101.8	4.8	169.6	2	SE	1010
6	141	59.5	5.6	95.2	6.9	163.4	3	S	1010
7	151	53.2	5.4	79.8	4.2	140.2	3	SW	1009
8	150	52.3	5.4	85.0	5.7	105.7	5	SSW	1009
9	184	69.1	3.8	104.4	3.3	66.2	9	SSW	1009
10	187	69.5	4.0	93.8	3.3	36.3	10	SSW	1008
11	178	76.8	4.5	112.1	5.4	8.8	9	SSW	1008
12	160	92.2	4.5	142.5	3.9	3.0	8	S	1008
13	178	91.8	4.2	158.6	4.5	18.6	9	SSW	1007
14	168	96.9	4.6	174.0	5.1	47.3	9	SSW	1007
15	174	100.5	4.4	140.3	5.1	79.8	9	SSW	1007
16	161	107.5	4.8	181.3	5.1	119.8	10	SSW	1006
17	157	99.2	4.8	144.3	5.1	149.9	9	SW	1006
18	169	90.0	4.6	142.1	5.1	168.7	9	S	1006
19	166	92.1	4.5	133.3	4.5	171.7	9	SSW	1006
20	171	93.8	4.3	148.7	3.6	162.0	11	SW	1006
21	168	104.4	4.8	157.1	4.8	146.0	12	SW	1007
22	164	115.9	4.4	164.8	5.4	128.7	10	SW	1007
23	163	117.4	4.6	188.2	4.5	110.8	11	SW	1006

HOUR	WAVE NUMBER	19/9		06 27		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	158	113.5	4.8	160.4	6.3	106.6	10	SW	1006
1	151	132.3	4.9	195.9	4.2	113.6	13	SW	1005
2	163	130.6	5.0	184.2	3.9	126.7	17	SW	1003
3	156	114.6	5.4	179.4	6.3	146.0	11	SSW	1005
4	142	116.7	5.6	245.4	5.7	164.4	11	S	1004
5	145	131.9	5.0	203.6	5.1	175.4	10	SSW	1004
6	148	127.4	4.7	164.1	3.6	174.2	10	S	1005
7	154	122.8	4.7	183.5	5.1	161.1	9	S	1005
8	145	128.1	4.8	172.5	6.0	133.6	13	SSW	1005
9	141	141.0	5.2	247.9	5.4	98.1	12	S	1004
10	163	121.9	4.9	207.3	5.7	63.0	13	S	1004
11	157	120.0	5.0	198.5	5.1	34.9	10	SSW	1005
12	146	111.7	5.1	179.4	4.8	21.2	9	S	1004
13	149	109.9	5.4	179.4	5.1	21.4	9	SSW	1004
14	134	157.7	6.2	243.2	5.1	39.6	8	S	1003
15	135	139.2	5.4	209.1	6.9	71.0	9	S	1003
16	139	149.4	5.3	269.2	5.4	105.7	10	S	1003
17	137	171.7	5.2	265.5	5.7	136.8	9	SSW	1002
18	145	144.7	5.2	217.9	5.4	160.0	11	S	1002
19	137	169.9	5.2	242.8	5.7	170.8	12	S	1002
20	133	163.9	5.6	272.1	6.9	165.7	10	S	1003
21	141	154.3	5.5	237.7	6.0	155.1	9	SSW	1003
22	127	157.5	5.7	242.1	6.3	135.8	0	-	1004
23	117	133.0	6.3	169.2	6.9	115.8	3	N	1003

HOUR	WAVE NUMBER	19/9		06 28		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	120	147.8	6.6	239.5	6.3	102.8	7	WSW	1002
1	125	137.0	6.6	223.4	7.2	103.9	7	S	1002
2	130	149.9	5.7	226.0	6.3	114.2	8	S	1002
3	123	152.3	6.9	230.7	6.0	128.9	10	SSW	1002
4	128	151.7	6.1	208.0	5.4	147.8	8	SW	1002
5	136	127.1	6.0	196.3	6.3	163.5	7	SW	1003
6	129	122.6	6.4	191.5	6.9	171.3	3	WSW	1003
7	124	135.9	6.6	197.4	7.5	165.3	6	S	1003
8	122	109.2	6.2	174.7	8.4	145.8	3	SW	1005
9	133	112.8	6.1	178.3	9.0	118.1	4	SW	1005
10	134	108.5	6.1	169.6	7.5	85.1	4	SW	1005
11	129	122.1	6.1	171.0	5.7	54.3	6	SW	1005
12	133	108.9	5.4	169.6	5.1	34.2	7	SSW	1004
13	131	107.1	5.9	158.6	6.6	27.1	4	S	1005
14	137	111.1	6.0	163.0	4.8	37.9	3	SW	1004
15	146	114.5	6.0	207.3	6.9	57.5	7	SW	1005
16	143	118.8	6.0	176.1	6.6	91.2	8	SW	1005
17	144	114.9	5.6	200.0	6.0	121.2	7	SW	1005
18	140	121.7	5.5	175.8	8.1	145.7	7	SW	1005
19	143	99.5	5.9	182.0	7.2	163.5	6	SW	1006
20	139	107.9	6.3	181.6	7.5	166.7	6	SW	1006
21	150	104.1	5.3	158.2	6.6	159.1	8	SW	1007
22	154	100.4	5.5	153.8	7.8	143.9	7	SW	1007
23	166	94.4	4.9	133.3	4.5	124.4	8	SW	1007

HOUR	WAVE NUMBER	19/9		06 29		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	152	102.1	5.3	149.8	7.5	109.0	9	SW	1007
1	172	89.9	4.6	154.5	6.0	102.5	9	S	1007
2	157	77.6	5.6	131.8	7.5	104.6	7	SSW	1007
3	149	81.4	5.8	128.9	6.3	116.1	7	SSW	1007
4	151	63.5	5.2	93.4	8.7	131.5	6	SSW	1008
5	146	63.7	5.8	123.4	8.1	148.5	2	W	1008
6	130	64.8	6.7	95.6	8.1	157.7	4	S	1008
7	170	71.8	4.9	111.7	8.7	160.5	11	SSW	1008
8	176	85.3	4.3	135.5	8.7	149.4	12	SSW	1008
9	164	106.6	4.2	164.1	3.9	130.1	11	SSW	1008
10	165	102.9	4.3	174.7	3.6	101.4	9	S	1008
11	159	107.8	4.3	147.9	3.6	72.0	9	S	1008
12	149	120.9	5.0	178.7	5.1	47.3	10	S	1007
13	165	127.4	4.7	199.6	4.8	34.0	10	SSW	1007
14	151	115.1	4.9	204.0	5.4	33.5	11	S	1007
15	153	123.3	4.8	170.5	4.2	48.3	10	S	1007
16	156	127.6	5.3	186.4	5.1	73.1	9	S	1007
17	155	127.7	5.4	233.6	7.5	103.2	8	S	1007
18	140	129.7	5.5	174.5	4.5	130.8	7	SSE	1007
19	148	141.5	5.0	254.2	5.1	150.8	10	S	1006
20	140	162.1	5.2	216.4	4.5	160.9	12	SSW	1006
21	146	146.3	5.0	224.5	4.5	162.0	11	SSW	1007
22	157	155.8	5.3	252.0	5.4	146.6	13	SSW	1006
23	144	120.1	5.2	211.7	6.0	130.8	12	SSW	1007

HOUR	WAVE NUMBER	19/9		06 30		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	140	125.9	5.3	190.8	5.1	113.8	9	S	1007
1	135	110.9	6.0	167.0	4.8	101.8	6	NW	1008
2	151	98.1	6.2	166.6	6.0	101.2	3	N	1007
3	121	90.7	6.5	149.4	7.8	105.3	3	N	1008
4	127	81.3	6.2	153.8	6.3	116.6	0	-	1009
5	105	101.2	7.0	137.7	7.2	135.6	3	NNE	1009
6	118	91.3	6.9	175.8	7.2	146.4	4	NE	1010
7	122	100.5	7.0	139.9	7.8	151.3	5	NE	1011
8	124	88.4	6.8	128.9	9.0	150.1	3	NNE	1011
9	115	88.2	7.3	121.9	6.9	135.2	4	NNE	1011
10	103	98.2	7.2	140.6	6.6	112.9	4	N	1011
11	111	73.6	7.4	114.6	6.9	87.6	5	N	1011
12	118	63.5	7.4	86.1	5.1	67.1	3	N	1010
13	104	63.2	7.6	99.2	9.9	50.8	4	N	1010
14	111	68.9	7.0	100.7	6.0	43.0	3	N	1010
15	119	65.2	6.6	98.9	8.1	49.2	3	N	1010
16	151	58.7	6.6	90.5	6.9	65.3	4	N	1009
17	158	53.5	6.7	82.8	6.3	89.7	4	NNE	1009
18	115	53.7	7.4	92.7	8.7	115.9	4	N	1009
19	99	66.1	7.5	94.1	6.3	137.2	4	N	1009
20	117	59.3	6.8	91.2	6.3	153.3	4	NNE	1009
21	123	55.6	6.1	102.9	6.0	157.5	3	N	1010
22	122	50.5	6.6	79.1	7.8	150.8	4	N	1009
23	123	53.9	7.0	74.7	8.4	138.4	4	N	1009

		1979		07	01				
HOUR	WAVE	H	I	H	T	TIDE	WIND	PRES	
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL DIR		
0	118	48.9	7.2	75.1	6.0	122.3	3 NNE	1009	
1	122	45.5	6.2	78.4	7.5	109.6	0 -	1008	
2	113	52.7	6.9	84.2	8.1	100.9	0 -	1008	
3	116	57.1	6.5	81.3	5.4	99.3	0 -	1008	
4	121	59.8	6.8	122.3	7.2	105.8	0 -	1007	
5	116	61.3	5.9	95.6	7.2	117.4	0 -	1007	
6	126	52.8	5.7	76.5	6.0	130.1	0 -	1007	
7	133	50.1	6.6	73.6	9.6	141.1	3 N	1007	
8	161	56.3	4.9	91.6	4.5	144.8	4 NNW	1006	
9	142	64.8	5.5	113.2	4.2	140.2	3 N	1006	
10	158	81.5	4.7	111.3	4.2	129.4	4 W	1005	
11	164	95.3	4.2	149.8	4.5	112.2	4 N	1006	
12	148	99.5	5.1	165.2	7.2	94.0	4 N	1006	
13	128	112.3	5.5	165.2	7.2	75.0	2 N	1006	
14	139	108.5	5.2	152.3	5.7	65.8	4 S	1005	
15	139	120.9	5.4	197.4	5.1	63.2	9 SSW	1005	
16	168	109.1	4.8	175.8	4.5	70.8	8 SSW	1005	
17	161	128.5	5.0	226.3	5.7	86.2	8 SW	1004	
18	172	116.5	4.5	182.0	4.2	108.9	10 SW	1004	
19	163	114.4	4.7	186.8	5.7	133.8	11 SW	1005	
20	166	126.0	4.9	217.2	5.1	150.6	10 SW	1005	
21	151	109.6	5.2	168.8	5.1	162.7	7 SSW	1006	
22	140	113.4	5.6	169.6	5.4	160.7	8 SSE	1005	
23	130	109.3	5.9	172.1	6.0	150.8	4 S	1005	

		1979		07	02				
HOUR	WAVE	H	I	H	T	TIDE	WIND	PRES	
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL DIR		
0	132	117.4	5.6	170.7	5.1	138.1	3 SW	1005	
1	128	145.0	6.2	218.6	6.3	120.7	10 WSW	1004	
2	158	112.2	5.4	184.9	5.7	109.4	10 SW	1005	
3	126	112.4	6.4	163.3	6.6	101.4	9 SW	1005	
4	151	115.2	5.6	184.6	6.9	101.1	12 SW	1004	
5	148	130.7	5.5	189.7	6.0	105.3	14 SW	1003	
6	155	127.9	4.8	235.8	4.5	117.0	10 SSW	1004	
7	145	144.3	5.1	244.3	6.0	126.0	14 S	1004	
8	150	129.5	4.7	207.6	4.5	132.9	11 SSW	1004	
9	148	151.3	5.0	217.5	4.2	135.8	13 SSW	1003	
10	146	146.9	5.1	210.2	5.1	133.8	13 SSW	1004	
11	133	156.3	5.7	296.6	5.1	123.7	10 SSW	1004	
12	135	160.2	5.8	214.2	6.3	111.5	11 SSW	1003	
13	131	168.6	5.8	262.6	5.7	92.2	13 SW	1003	
14	135	188.0	5.6	297.4	4.8	81.4	12 SW	1002	
15	121	190.5	6.3	268.4	5.7	75.4	15 SW	1002	
16	133	180.7	5.5	286.0	6.6	74.5	14 SW	1002	
17							12 SSW	1001	
18	131	165.2	5.6	264.0	5.7	100.4	12 SSW	1001	
19	128	153.9	5.9	250.9	6.3	120.7	13 SSW	1001	
20	122	163.2	6.1	242.4	6.0	140.2	12 SSW	1001	
21	134	162.6	5.8	267.7	6.9	152.6	13 SW	1002	
22	147	139.7	5.4	225.2	5.7	157.9	14 SW	1001	
23	138	166.8	5.5	287.8	6.6	152.9	15 SW	1001	

		1979		07	03				
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	137	145.9	5.7	246.8	5.7	144.6	13	SSW	1000
1	133	154.5	5.5	222.7	6.9	131.0	12	SSW	1000
2	133	146.7	5.4	233.3	6.0	114.7	10	SSW	1000
3	146	137.6	5.2	194.5	4.5	103.5	10	SSW	999
4	132	137.4	5.9	217.5	6.0	94.2	7	SSW	1000
5	129	135.8	6.0	197.0	5.1	92.6	4	SW	999
6	118	137.0	6.2	192.3	6.9	95.0	5	S	999
7	124	127.1	6.2	185.7	6.0	105.5	3	N	1000
8	112	118.2	6.5	176.9	6.6	114.7	3	NNE	1000
9	112	113.2	6.4	160.0	6.9	122.0	2	E	1000
10	114	107.7	6.5	183.5	6.0	127.1	2	SW	1000
11	124	92.9	6.6	155.3	6.6	126.7	2	SW	1000
12	122	96.0	6.3	159.7	7.2	122.5	2	SSW	1000
13	114	97.9	6.6	141.0	7.2	111.3	2	SSW	1000
14	121	85.7	6.5	123.0	6.3	98.9	3	SSW	1000
15	124	77.5	6.5	120.8	6.0	90.1	3	S	1000
16	112	91.2	6.9	127.8	7.2	87.4	2	SSW	1000
17	122	83.6	6.3	143.6	6.3	89.0	2	SW	1000
18	120	80.1	6.6	109.5	5.4	97.0	0	-	1001
19	110	85.9	7.0	128.9	6.9	110.3	6	NNE	1001
20	125	77.1	7.0	117.6	6.6	128.0	5	NE	1001
21	103	83.8	7.1	131.5	6.6	141.8	5	NE	1002
22	113	76.3	7.3	125.2	7.8	153.3	6	NNE	1002
23	129	68.1	6.9	112.4	7.2	157.0	6	NNE	1002

		1979		07	04				
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	113	70.5	7.2	105.1	7.5	150.6	5	NNE	1002
1	122	62.4	7.4	105.8	7.2	141.6	3	NE	1002
2	147	55.4	6.5	105.5	8.4	124.3	3	ENE	1002
3	133	61.9	7.0	94.1	7.5	106.9	3	ENE	1002
4	119	53.2	7.3	71.4	6.9	95.6	3	NNE	1002
5	100	55.0	7.6	100.7	7.2	84.4	4	NNE	1002
6	104	55.5	7.5	80.9	8.7	82.7	4	N	1003
7	95	54.9	7.7	83.5	8.1	82.1	4	N	1003
8	97	66.2	7.6	100.0	6.9	90.1	3	NNE	1003
9	96	69.9	7.7	87.5	8.1	100.7	2	NE	1003
10	88	68.9	7.9	116.5	7.8	110.1	1	SE	1003
11	99	69.8	7.4	109.5	7.5	118.8	4	SE	1002
12	107	67.0	7.5	94.8	6.9	123.9	3	SE	1002
13	106	66.5	7.4	100.3	7.8	125.3	3	S	1002
14	103	61.6	7.6	95.6	6.6	118.4	4	SSW	1001
15	114	57.0	7.4	79.1	7.5	111.7	5	SSW	1001
16	132	59.1	7.0	86.8	6.9	102.8	5	SSW	1001
17	121	61.5	7.3	102.2	8.7	98.1	5	SW	1001
18	133	61.4	6.8	95.6	7.2	99.5	6	SSW	1001
19	139	63.7	6.9	103.6	7.2	107.4	6	SSW	1001
20	142	62.0	6.8	89.0	6.6	120.2	6	S	1002
21	145	57.6	6.5	77.6	6.9	135.1	7	S	1002
22	149	57.2	6.0	95.6	7.8	149.0	6	S	1002
23	150	64.0	6.6	106.2	8.4	158.6	5	SW	1002

HOUR	WAVE NUMBER	19/9		07		05	WIND		
		H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	VEL	DIR	PRES
0	150	60.6	6.8	86.4	7.8	157.5	3	WSW	1002
1	117	65.2	7.8	101.4	8.4	153.8	0	-	1002
2	130	55.0	7.3	93.0	6.9	141.8	3	N	1001
3	108	55.2	7.7	78.7	9.3	122.8	3	N	1001
4	120	51.3	7.3	80.6	7.2	104.4	3	N	1001
5	104	47.1	7.6	89.4	7.8	89.0	1	N	1002
6	101	43.2	7.3	69.6	8.1	74.5	3	N	1002
7	99	45.3	7.8	77.6	7.5	69.9	3	NNE	1002
8	105	40.6	7.5	67.7	6.9	70.6	3	SSW	1002
9	96	54.9	7.8	101.1	8.4	80.9	4	SW	1002
10							4	SSW	1002
11							5	SSW	1002
12							6	S	1001
13							5	S	1001
14							6	S	1001
15							6	S	1001
16							5	S	1001
17							6	SSW	1001
18	150	69.8	6.0	121.9	7.2	108.9	3	SSW	1001
19	140	70.9	6.7	118.3	7.2	109.0	4	S	1002
20	126	67.9	7.9	112.1	10.2	116.1	4	SSW	1002
21	114	67.1	8.1	107.3	7.8	129.2	5	SSW	1003
22	114	60.0	8.0	105.5	9.9	144.4	3	SW	1003
23	105	66.1	8.8	102.9	11.7	158.8	3	NNW	1003

HOUR	WAVE NUMBER	19/9		07		06	WIND		
		H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	VEL	DIR	PRES
0	97	72.3	9.6	139.5	10.2	167.1	3	N	1003
1	101	66.7	10.2	106.2	9.0	166.2	3	NNW	1003
2	86	75.5	10.5	118.7	12.6	161.2	1	NNW	1003
3	75	78.3	11.2	118.7	12.0	143.5	0	-	1004
4	84	72.4	11.0	105.8	9.9	124.8	0	-	1004
5	88	61.9	10.6	98.9	12.6	99.7	0	-	1005
6	86	64.8	10.0	124.1	12.3	77.3	0	-	1006
7	88	54.4	10.3	87.9	11.1	62.8	0	-	1006
8	72	68.3	11.3	86.4	6.6	55.2	3	S	1006
9	72	68.7	11.6	93.0	15.0	57.9	3	SSW	1006
10	75	70.8	10.4	90.5	9.3	73.6	4	SW	1006
11	77	91.9	11.1	163.0	10.5	91.0	5	SW	1006
12	79	113.3	11.5	194.1	12.3	112.4	5	SW	1006
13	80	109.4	11.7	172.5	11.7	134.2	4	SW	1006
14	90	96.1	10.0	158.6	10.5	144.6	4	SW	1006
15	87	92.6	10.7	142.1	11.7	151.7	5	SSW	1006
16	112	75.0	8.7	134.0	12.3	148.7	5	S	1006
17	107	84.5	10.1	138.8	11.7	137.0	4	S	1006
18	99	88.8	10.4	139.2	10.5	125.3	3	SSW	1007
19	105	76.7	9.6	111.7	12.0	109.9	3	SSE	1007
20	91	88.9	10.3	132.2	10.5	107.6	4	S	1008
21	77	101.3	10.1	138.4	9.6	115.9	3	S	1008
22	78	111.2	10.8	142.1	10.8	125.1	3	SE	1008
23	86	98.9	10.6	131.5	8.7	137.0	4	SE	1008

HOUR	WAVE NUMBER	1979		07		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	77	126.0	10.3	160.4	9.0	152.4	0	-	1008
1	88	110.5	10.8	142.8	10.8	161.6	3	N	1008
2	90	90.9	10.2	147.9	9.9	164.8	3	NNW	1008
3	88	88.8	10.0	155.3	10.2	152.8	3	N	1008
4	99	74.8	9.2	137.0	9.0	131.9	4	N	1008
5	84	78.9	10.0	117.2	10.2	107.1	3	N	1008
6	88	66.3	9.8	83.1	10.2	80.5	3	N	1009
7	79	67.7	9.5	95.9	8.4	53.8	3	N	1009
8	78	67.5	9.8	103.3	9.0	36.8	3	ENE	1009
9	85	73.3	9.4	121.2	10.2	32.2	5	SE	1009
10	93	69.4	8.9	103.6	9.9	41.6	5	SSE	1009
11	94	72.5	8.9	112.4	8.7	60.9	5	SSE	1010
12	106	68.9	8.6	131.1	9.6	86.7	3	S	1009
13	95	69.5	9.5	90.8	9.0	113.3	4	SSW	1009
14	95	72.8	9.0	147.9	7.8	136.6	3	SSW	1009
15	104	56.7	8.8	88.3	8.4	153.5	3	SW	1008
16	106	54.0	8.5	95.9	7.8	158.6	4	SW	1008
17	94	55.5	8.8	72.1	7.5	154.3	4	SSW	1008
18	106	57.2	8.8	101.8	9.6	141.8	4	SSW	1008
19	100	54.4	8.7	91.2	10.2	125.7	4	SSW	1008
20	110	46.7	8.0	82.0	9.0	114.0	3	SSW	1008
21	89	58.9	8.7	83.5	9.6	110.4	4	SW	1009
22	109	62.2	8.4	83.5	9.9	115.6	3	SW	1009
23	102	63.4	8.2	116.5	7.2	128.5	3	SW	1008

HOUR	WAVE NUMBER	1979		07		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	107	60.4	8.2	92.3	9.3	143.5	3	SSW	1008
1	101	61.6	8.5	105.8	8.4	158.4	0	-	1008
2	112	48.9	8.2	83.1	8.1	168.1	0	-	1007
3	113	40.6	7.8	64.1	9.9	167.4	0	-	1007
4	101	46.7	8.3	61.9	9.3	154.5	0	-	1007
5	96	52.6	8.4	102.9	8.1	130.8	4	NNW	1008
6	97	56.8	8.5	72.9	7.2	99.1	4	N	1008
7	108	49.3	8.4	82.4	9.0	64.8	4	N	1008
8	104	45.0	8.2	63.0	8.7	36.6	3	NNE	1008
9	119	40.6	8.1	59.0	7.5	20.7	4	ENE	1008
10	104	49.5	8.8	75.8	9.0	18.2	4	SSE	1008
11	116	38.9	7.9	57.5	9.0	30.6	5	SW	1008
12	112	53.3	8.5	94.1	8.7	57.0	3	S	1008
13	100	54.7	7.9	92.7	8.1	90.1	3	SE	1008
14	114	54.9	8.0	82.0	9.3	124.1	4	ENE	1007
15	122	47.0	7.2	76.9	7.2	152.4	5	N	1007
16	118	49.7	7.3	69.9	8.4	168.5	3	NW	1007
17	128	41.7	7.3	68.5	9.6	170.3	3	W	1007
18	128	40.1	6.9	61.2	6.3	164.3	2	W	1007
19	103	50.2	8.2	68.1	8.1	148.5	0	-	1008
20	116	55.6	7.2	81.7	8.1	129.4	0	-	1008
21	117	45.2	7.3	62.3	7.2	115.9	3	N	1008
22	111	48.0	7.8	78.4	7.5	112.6	3	N	1009
23	96	45.0	8.2	62.3	7.5	117.5	3	N	1009

HOUR	WAVE NUMBER	1979		07	09	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	112	39.9	7.4	59.3	8.7	133.3	3	N	1009
1	92	45.2	8.1	73.2	6.9	152.4	3	N	1009
2	115	51.0	7.9	76.2	8.7	166.9	4	N	1009
3	105	50.0	7.8	75.8	6.6	176.1	4	N	1009
4	112	48.4	7.8	80.6	7.5	172.6	4	N	1009
5	99	55.2	7.9	80.9	7.2	153.5	4	NNW	1009
6	115	49.9	7.7	69.9	7.2	126.0	3	N	1009
7	126	49.7	7.4	85.0	7.5	89.0	5	NE	1010
8	124	53.8	7.4	105.5	8.4	50.8	5	NE	1010
9	119	48.4	7.5	84.6	7.8	20.7	5	NE	1010
10	125	45.4	7.7	71.4	6.9	5.7	5	ENE	1010
11	126	40.4	7.7	64.5	8.4	8.7	5	E	1010
12	144	37.5	6.8	63.4	7.5	27.4	5	SW	1010
13	143	39.9	6.7	56.0	7.5	60.2	6	SW	1010
14	131	52.3	7.3	93.8	7.5	95.8	6	SW	1010
15	143	47.6	7.2	76.9	7.8	132.4	6	SSW	1010
16	169	51.7	5.5	115.4	9.0	162.5	6	S	1010
17	150	50.4	6.4	88.3	10.5	178.8	5	S	1010
18	149	46.4	6.1	90.1	8.7	177.5	5	S	1010
19	129	51.3	7.5	73.2	9.9	161.2	4	S	1011
20	136	55.2	7.3	86.8	9.3	141.4	4	SW	1012
21	145	43.0	6.5	70.7	7.2	122.3	3	WSW	1012
22	126	44.7	7.4	65.9	8.4	109.0	1	W	1012
23	107	52.2	7.5	84.2	8.4	108.3	3	SSW	1012

HOUR	WAVE NUMBER	1979		07		10		WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	VEL	DIR		
0	124	48.3	7.7	73.2	6.6	118.6	3	WSW	1012	
1	123	45.2	7.4	81.7	7.5	137.5	2	SW	1012	
2	118	46.0	7.5	69.2	6.3	159.1	3	NNW	1012	
3	102	44.7	7.8	75.8	8.4	175.8	2	N	1012	
4	115	40.0	7.7	59.3	7.8	183.2	2	N	1012	
5	119	49.9	7.9	69.9	8.1	175.4	3	N	1012	
6	116	46.9	7.5	77.3	7.2	152.9	3	N	1013	
7	105	49.2	8.2	78.7	8.1	117.7	2	N	1013	
8	107	46.9	8.3	68.1	7.8	77.2	2	SE	1013	
9	100	51.7	8.4	77.6	8.1	36.1	3	S	1013	
10	100	50.8	9.0	74.3	7.8	8.8	4	S	1013	
11	119	42.8	7.8	78.4	9.6	-1.1	5	S	1013	
12	125	44.6	7.7	79.5	8.1	6.2	6	S	1013	
13	158	44.8	6.2	71.0	7.8	30.6	7	S	1013	
14	161	47.9	6.1	80.6	9.3	67.1	6	S	1013	
15	192	51.6	4.4	76.5	8.4	108.7	7	S	1012	
16	182	69.5	4.1	112.8	3.3	144.8	8	S	1012	
17	197	67.6	3.7	115.0	3.3	173.1	9	S	1012	
18	191	58.7	3.8	108.8	3.6	187.1	8	S	1012	
19	169	61.4	4.1	92.7	2.4	181.1	8	SSW	1012	
20	184	67.8	3.9	105.1	3.6	163.5	9	SSW	1011	
21	195	61.7	3.9	100.7	3.3	138.9	7	SSW	1012	
22	178	59.8	4.1	104.0	4.8	120.0	9	SSW	1011	
23	185	57.5	4.2	99.2	9.3	110.8	7	SSW	1011	

HOUR	WAVE NUMBER	19/9		07	11	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	188	47.6	4.1	80.6	2.4	110.8	7	SW	1011
1	168	48.1	5.2	91.9	9.3	123.4	7	SW	1011
2	156	50.4	5.2	83.5	7.5	145.7	6	SSW	1010
3	178	52.4	4.7	78.7	8.4	168.1	7	S	1010
4	177	57.5	4.6	100.7	7.8	181.8	8	S	1010
5	186	53.5	4.1	95.2	7.8	186.6	9	SSW	1009
6	186	53.6	4.3	84.6	7.2	177.7	8	S	1009
7	188	62.9	4.4	101.4	3.9	153.6	9	S	1009
8	185	57.6	4.3	84.2	2.7	114.2	10	S	1009
9	180	67.7	4.0	100.7	3.3	70.6	8	S	1009
10	196	69.3	3.6	120.8	3.6	32.2	10	SW	1008
11	199	59.1	3.7	91.2	3.0	9.6	9	SSW	1008
12							9	SSW	1007
13	173	57.4	4.5	94.1	4.2	17.9	7	S	1007
14	168	68.5	4.3	121.9	3.9	46.0	9	S	1006
15	166	69.2	4.6	107.7	3.9	87.6	6	S	1005
16	182	55.8	3.9	91.2	3.3	131.5	7	S	1004
17	191	71.9	3.9	115.7	4.2	168.7	9	S	1003
18	196	76.9	3.9	141.0	4.2	191.7	10	S	1002
19	163	84.1	4.4	124.1	3.9	194.0	8	SSE	1002
20	177	71.1	4.2	119.0	4.5	179.3	9	SSW	1002
21	174	76.6	4.3	124.5	3.9	165.5	11	S	1002
22	163	60.9	4.6	82.0	4.8	142.7	3	W	1001
23	164	59.3	4.8	89.7	4.8	125.8	6	SW	1001

HOUR	WAVE NUMBER	19/9		07	12	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	171	57.1	4.6	95.2	6.9	113.6	3	N	1000
1	148	53.1	5.8	78.7	5.7	119.1	3	NNW	1000
2	136	58.4	6.0	93.0	6.3	135.9	4	NNE	1000
3	134	65.3	5.7	108.8	5.1	159.8	3	N	999
4	135	64.0	5.5	100.3	4.5	185.3	3	N	999
5	146	56.0	5.5	88.3	8.1	197.9	3	N	999
6	148	49.3	5.6	71.8	6.0	199.1	3	NNE	999
7	162	37.7	5.6	54.2	3.9	187.4	4	N	999
8	151	37.2	6.2	50.9	5.7	160.0	5	NNE	999
9	128	40.6	7.1	58.6	6.6	116.5	5	NE	1000
10	131	37.0	7.1	59.3	8.4	72.6	5	NE	1000
11	139	38.6	6.6	60.8	4.8	43.4	4	SW	1000
12	125	35.8	7.3	71.8	8.7	22.8	4	SW	999
13	105	38.1	7.2	69.2	7.5	21.4	4	SW	999
14	113	39.6	7.1	60.1	6.0	35.0	4	SW	999
15	134	35.6	6.7	54.6	9.9	65.8	3	SW	999
16	124	39.1	7.0	63.4	8.4	105.8	2	S	999
17	109	39.7	7.6	58.6	6.6	144.1	2	SW	999
18	118	40.9	7.2	64.5	8.7	173.1	3	SW	1000
19	120	44.7	6.7	68.1	7.5	189.0	3	SW	1001
20	115	43.3	6.9	71.0	6.3	188.2	5	SW	1002
21	128	41.9	6.4	71.4	7.5	175.2	4	WSW	1002
22	105	46.1	7.5	78.0	9.3	152.6	4	WSW	1002
23	97	44.6	7.6	68.5	7.5	128.7	2	WSW	1002

HOUR	WAVE NUMBER	19/9		07 13		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	105	47.4	7.4	74.7	7.2	109.2	0	-	1003
1	99	53.2	7.9	84.2	7.5	103.4	1	E	1003
2	105	47.6	7.9	67.7	6.6	110.3	4	ENE	1003
3	125	41.6	7.2	58.2	6.6	128.0	4	NE	1004
4	139	45.7	6.5	86.8	6.6	152.4	3	ENE	1004
5	129	50.9	7.0	79.5	7.2	173.3	5	NE	1004
6	126	45.6	6.6	82.8	8.4	180.2	4	NE	1004
7	128	46.4	6.6	64.8	5.7	177.9	3	ENE	1005
8	127	47.7	6.6	73.6	9.0	160.2	3	ENE	1004
9	116	42.2	6.8	63.0	7.5	131.2	3	NE	1005
10	112	47.3	7.2	92.3	7.2	95.2	2	ENE	1005
11	122	47.6	7.3	72.5	7.8	59.5	0	-	1005
12	112	46.9	7.2	69.2	7.8	34.7	3	S	1005
13	101	61.7	7.1	100.3	7.8	25.0	4	S	1005
14	129	45.9	6.6	78.4	7.2	31.2	4	S	1005
15	127	47.8	6.9	75.8	6.9	49.2	4	S	1004
16	130	46.1	7.0	88.3	7.8	81.2	4	SW	1004
17	128	41.1	7.4	71.0	8.1	115.8	4	SW	1004
18	118	44.0	8.0	84.6	8.1	148.5	4	SW	1005
19	136	46.1	6.6	84.6	8.7	172.6	3	SW	1005
20	148	44.1	5.9	65.9	7.2	180.5	4	SSE	1005
21	168	42.6	5.4	75.1	7.5	175.6	5	SSE	1005
22	182	43.2	4.7	70.7	4.5	159.1	5	SE	1005
23	176	42.4	5.1	77.6	7.8	136.1	5	ESE	1005

HOUR	WAVE NUMBER	19/9		07 14		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	148	46.6	6.1	78.4	6.9	116.6	3	NE	1005
1	153	39.1	6.1	68.1	7.8	102.5	4	NNW	1005
2	151	41.1	6.5	69.9	7.2	99.7	4	N	1005
3	133	46.4	7.0	77.6	8.1	109.6	5	N	1005
4	121	51.8	7.2	72.9	8.1	126.6	4	NNW	1005
5	118	50.4	6.7	82.4	7.2	147.6	4	N	1005
6	129	49.9	6.6	82.8	7.8	166.4	5	N	1005
7	139	40.8	6.7	68.5	7.2	173.6	5	N	1006
8	144	38.4	6.7	52.4	6.0	166.9	4	N	1006
9	151	31.2	6.3	55.3	8.1	153.1	5	N	1006
10	164	30.4	5.7	50.9	5.7	125.7	5	N	1005
11	151	27.1	6.2	47.6	6.9	93.1	4	N	1005
12	150	29.4	6.3	45.8	5.7	63.5	4	N	1005
13	143	25.9	6.9	37.0	7.5	44.6	5	N	1005
14	127	30.1	6.9	48.0	6.0	40.0	4	NNE	1004
15	127	30.3	7.0	43.9	6.3	50.1	4	NNE	1005
16	147	27.5	6.5	50.5	8.4	71.2	4	NNE	1005
17	140	23.5	6.7	33.7	7.5	98.4	4	NNE	1005
18	123	26.4	7.8	43.6	7.8	129.6	3	N	1005
19	130	28.0	7.3	47.2	8.7	156.3	4	N	1005
20	135	30.9	7.3	47.6	7.2	172.0	3	N	1005
21	124	30.5	7.2	45.0	7.8	174.0	3	NNE	1005
22	146	29.5	7.0	50.5	8.7	169.6	3	NNE	1005
23	140	23.7	6.6	48.0	6.9	150.6	2	NNE	1005

		1979		07		15				
HOUR	WAVE NUMBER	H	I	H	T	TIDE	WIND		PRES	
		(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR		
0	141	23.8	7.4	39.2	7.5	127.4	3	NNE	1004	
1	133	20.3	6.8	38.8	7.2	106.7	3	NNE	1004	
2	146	21.0	6.7	32.6	7.5	94.7	4	NNE	1004	
3	119	23.0	8.2	38.1	7.2	93.5	3	NNE	1004	
4	148	26.4	6.9	46.5	7.2	104.1	4	NNE	1003	
5	118	21.4	7.0	28.2	6.3	120.2	3	N	1003	
6	130	24.5	7.2	37.7	7.2	138.4	2	NNE	1004	
7	133	26.3	7.2	42.1	6.9	154.5	3	NNE	1003	
8	149	24.9	6.7	43.9	6.9	161.2	4	NNE	1003	
9	141	27.2	6.9	46.9	9.3	158.6	4	NNE	1003	
10	152	23.4	6.1	39.6	6.3	144.3	3	NE	1004	
11	113	24.9	7.4	46.5	7.5	119.8	2	NE	1003	
12	158	18.3	6.1	26.7	4.8	98.2	3	N	1002	
13	145	19.1	6.0	27.8	6.3	76.8	3	N	1002	
14	155	21.1	6.4	68.8	16.2	62.1	3	S	1002	
15	126	21.8	6.9	30.4	6.6	64.4	3	SSW	1001	
16	126	19.2	7.1	27.1	7.2	75.2	1	S	1002	
17	182	18.6	5.8	30.4	7.2	95.0	4	NNE	1002	
18	174	18.2	5.9	36.3	7.8	120.0	4	NE	1002	
19	180	26.5	5.0	50.2	5.7	145.0	5	NE	1002	
20	206	24.7	4.4	39.9	7.2	165.1	6	NE	1004	
21	211	23.5	4.1	40.6	4.5	175.4	6	NNE	1005	
22	241	21.4	3.7	42.5	5.4	173.3	7	N	1005	
23	191	21.5	4.9	42.8	6.9	160.5	7	NNE	1006	

		1979		07		16				
HOUR	WAVE NUMBER	H	I	H	T	TIDE	WIND		PRES	
		(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR		
0	232	21.7	4.2	48.3	7.8	140.7	8	N	1005	
1	199	19.9	5.3	38.1	7.5	119.7	6	NNE	1005	
2	204	22.1	4.9	35.2	11.4	102.1	7	N	1005	
3	224	20.8	4.4	41.7	6.9	91.2	8	N	1005	
4	240	19.8	3.9	33.0	8.1	91.2	7	NNE	1006	
5	225	18.7	4.1	41.4	8.7	98.9	7	NNE	1006	
6	202	19.2	5.2	37.7	8.7	112.6	7	NNE	1007	
7	222	18.2	4.3	41.0	8.4	128.5	7	NNE	1007	
8	213	19.7	4.6	40.3	7.5	139.5	6	NNE	1007	
9	203	18.7	5.2	30.4	6.3	143.5	5	NNE	1007	
10	216	18.9	4.7	39.6	11.4	142.1	6	NNE	1007	
11	202	20.4	5.4	37.4	5.4	134.2	5	NNE	1007	
12	195	19.2	5.3	35.5	6.6	119.5	5	NE	1007	
13	152	21.5	6.6	39.6	6.9	103.4	4	E	1007	
14	181	18.3	5.8	35.2	7.2	89.2	4	SE	1007	
15	204	22.2	4.3	35.2	7.5	81.2	5	ESE	1007	
16	193	24.3	4.5	37.7	7.2	83.4	4	SE	1007	
17	146	28.9	7.0	43.2	8.1	93.1	5	E	1008	
18	155	29.9	5.8	48.0	7.8	109.6	3	E	1008	
19	153	29.9	6.3	46.9	6.9	130.8	1	E	1009	
20	137	34.5	7.3	54.2	8.4	148.5	3	NW	1009	
21	135	35.8	6.7	57.9	8.7	162.3	0	-	1009	
22	123	44.9	7.6	69.6	9.0	169.4	2	NNE	1010	
23	141	36.2	6.7	59.7	7.5	161.4	3	NNE	1010	

HOUR	WAVE NUMBER	1979 07 17				TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	133	43.1	6.9	63.7	8.1	151.2	0	-	1010
1	114	41.1	7.7	57.1	7.5	134.2	3	NNW	1009
2	106	47.8	7.9	83.5	8.4	112.9	2	N	1009
3	109	40.5	7.5	64.1	8.7	96.3	3	NNW	1009
4	100	50.7	7.8	97.8	7.5	85.8	3	N	1009
5	87	57.6	8.7	104.7	8.1	83.7	3	N	1009
6	94	62.8	8.4	97.8	8.1	87.4	3	N	1009
7	95	59.3	8.0	100.0	7.2	99.3	3	N	1009
8	116	47.2	7.0	79.8	7.2	112.2	3	N	1010
9	114	53.2	7.6	71.8	8.1	123.9	2	NE	1009
10							1	SW	1009
11	100	46.0	7.7	59.3	6.9	136.8	2	SW	1009
12	118	39.7	7.2	62.6	8.4	133.3	3	SSW	1008
13	114	36.9	7.1	50.2	8.4	126.4	3	SSW	1008
14	109	50.2	7.4	88.6	7.5	112.9	3	SSW	1008
15	112	47.5	7.3	67.0	8.1	106.9	3	SSW	1007
16	107	45.5	7.6	63.0	7.8	103.2	2	SW	1007
17	96	46.4	7.4	58.2	6.6	103.4	3	SW	1007
18	104	48.9	7.3	79.1	7.8	110.6	3	S	1007
19	105	53.7	7.4	80.2	7.2	125.0	3	E	1007
20	126	46.0	7.1	78.7	7.2	139.7	3	N	1008
21	128	53.9	7.4	91.6	8.1	154.9	3	N	1008
22	113	60.8	6.9	85.7	6.3	163.2	3	NE	1007
23	127	81.6	6.1	163.3	6.6	164.4	2	NE	1008

HOUR	WAVE NUMBER	1979 07 18				TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	139	93.7	5.6	171.8	6.6	159.1	3	N	1007
1	117	121.2	6.3	178.3	6.6	148.0	2	E	1006
2	124	103.4	6.0	136.2	7.5	132.2	3	NE	1006
3	125	101.9	6.1	159.7	7.2	110.3	3	N	1006
4	117	78.6	6.4	139.2	6.0	93.5	4	N	1006
5	120	63.8	6.6	109.9	7.5	82.3	4	N	1006
6	98	75.7	7.2	115.4	7.2	78.4	4	ENE	1006
7	111	75.9	6.7	136.6	6.6	79.3	3	NNE	1007
8	117	97.8	7.0	164.1	6.9	88.9	5	N	1007
9	95	120.9	7.2	175.4	6.9	100.5	6	N	1006
10	100	139.5	7.4	227.4	8.1	115.2	5	N	1006
11	86	144.7	7.6	204.3	8.1	125.8	5	NE	1006
12	99	137.3	7.4	214.2	8.7	133.6	7	NE	1006
13	106	116.0	7.7	180.5	6.9	136.3	6	NNE	1006
14	93	138.9	8.7	235.1	6.9	135.4	6	NNE	1006
15	84	144.9	8.8	204.7	9.9	128.3	6	NNE	1006
16	87	147.1	9.2	202.1	9.6	122.7	7	NNE	1006
17	77	151.1	9.4	218.6	9.3	120.7	8	N	1006
18	78	159.6	9.6	272.1	9.0	119.3	7	N	1006
19	68	148.9	9.5	208.0	9.6	124.6	7	N	1006
20	79	132.3	9.8	177.6	9.0	134.3	8	N	1007
21	100	109.3	9.1	204.0	9.3	146.7	8	N	1007
22	98	117.1	8.9	183.5	9.3	156.1	8	N	1007
23	99	104.4	9.0	162.2	9.0	162.7	8	N	1007

HOUR	WAVE NUMBER	1979		07	19	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	105	109.2	8.9	169.2	9.6	162.8	8	N	1006
1	106	96.6	8.9	176.5	8.4	161.1	8	N	1006
2	106	91.9	8.9	145.8	9.9	147.3	8	N	1005
3	127	69.4	8.2	122.7	9.3	130.8	10	N	1005
4	130	63.9	8.2	105.8	9.3	107.8	9	N	1006
5	136	41.3	7.8	93.0	9.3	88.1	8	N	1007
6	130	35.5	7.6	60.8	8.7	72.4	10	N	1007
7	128	34.2	7.6	63.0	9.3	63.4	10	N	1007
8	129	31.6	7.6	60.1	9.6	65.8	10	N	1008
9	163	30.9	5.7	65.9	9.3	73.5	10	N	1008
10							9	N	1008
11							8	N	1008
12	219	37.8	4.1	76.2	9.6	120.2	10	N	1008
13	212	35.0	4.5	64.5	6.6	133.1	8	N	1008
14	176	39.6	5.6	73.6	9.9	141.8	8	N	1008
15	165	37.9	6.5	74.7	8.7	140.0	8	NNE	1008
16	130	56.9	7.8	94.5	7.5	135.6	7	NNE	1008
17	124	54.8	8.1	91.6	8.1	130.1	6	NNE	1009
18							4	ENE	1009
19							4	E	1010
20							3	E	1011
21							2	SE	1012
22	110	52.0	8.1	74.5	8.1	140.7	1	SE	1012
23	109	50.1	7.6	92.3	7.5	148.3	3	SSE	1012

HOUR	WAVE NUMBER	1979		07	20	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	123	45.1	7.2	63.0	8.4	155.1	4	SE	1012
1	130	51.5	7.4	70.7	7.8	157.0	4	SE	1012
2	111	55.6	7.4	86.4	6.3	153.1	1	E	1012
3	117	53.6	7.7	76.9	8.4	137.9	4	SE	1013
4	110	48.5	7.6	70.7	7.8	120.2	3	E	1013
5	121	36.4	7.3	49.1	5.4	94.7	0	-	1014
6	108	25.8	7.2	40.5	5.7	71.2	0	-	1014
7	111	15.4	7.2	29.3	8.7	54.3	3	N	1014
8	121	38.6	7.5	64.5	6.6	44.4	4	NNW	1015
9	127	37.0	6.6	59.7	7.5	46.9	2	NW	1015
10	124	46.0	6.8	63.7	8.7	60.7	3	SW	1015
11	123	48.4	6.4	75.1	6.6	77.3	3	SW	1015
12	124	46.3	6.6	63.7	7.2	100.4	1	SW	1015
13	111	41.0	7.2	63.4	7.2	120.5	3	NW	1014
14	114	33.9	7.1	49.1	6.9	136.6	2	N	1014
15	131	28.9	6.7	41.7	5.4	147.8	3	N	1013
16	126	27.0	7.0	44.5	6.0	147.8	4	N	1013
17	126	26.3	6.6	35.9	5.7	140.0	4	NNE	1013
18	152	29.9	6.8	45.8	7.2	129.9	5	NNE	1013
19	169	28.8	6.1	48.5	6.0	121.6	6	NNE	1013
20	169	27.7	6.0	45.0	6.3	118.1	6	NNE	1013
21	203	23.3	5.1	49.1	7.2	118.4	7	NNE	1013
22	163	22.0	6.0	34.4	7.8	125.8	7	NNE	1013
23	187	24.5	5.7	42.8	9.0	136.5	6	NNE	1013

HOUR	WAVE NUMBER	1979		07 21		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	158	25.6	6.4	44.5	8.4	147.1	6	NNE	1013
1	179	21.8	5.8	42.1	6.3	155.2	6	NNE	1013
2	160	25.2	6.1	46.1	6.9	157.0	4	N	1013
3	116	28.5	7.0	44.7	7.2	148.7	3	N	1013
4	107	27.8	7.1	39.6	7.8	134.7	3	NE	1013
5	113	30.3	7.3	50.9	6.0	112.0	2	N	1013
6	124	32.5	6.7	52.4	7.5	84.3	3	NNE	1013
7	113	35.2	7.1	46.5	6.3	57.9	2	SSW	1014
8	125	25.9	6.8	43.6	6.9	39.5	3	SSW	1014
9	103	35.2	7.1	48.0	6.9	30.4	4	SSW	1014
10	124	28.4	6.6	46.9	7.8	36.6	4	SSW	1014
11	115	44.1	6.7	62.3	6.6	52.4	3	S	1014
12	117	44.5	6.8	62.6	6.0	78.4	3	S	1014
13	112	43.3	7.7	60.8	7.2	106.7	4	SSW	1014
14	112	53.2	7.6	117.2	6.3	131.2	5	S	1013
15	124	46.0	7.0	71.0	7.2	144.6	5	S	1013
16	124	48.6	7.1	82.4	7.5	153.8	3	S	1013
17	112	45.9	6.8	67.7	7.8	152.6	2	S	1013
18	118	39.4	6.9	67.7	8.4	144.3	0	-	1013
19	112	43.1	7.0	64.5	8.4	131.3	0	-	1014
20	112	46.9	6.6	69.2	6.6	121.8	0	-	1014
21	119	54.0	6.9	99.6	6.6	115.8	0	-	1014
22	119	58.5	6.7	100.0	6.0	116.6	0	-	1014
23	139	41.9	6.1	71.0	6.0	124.6	0	-	1014

HOUR	WAVE NUMBER	19/9		07 22		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	138	40.9	5.5	81.7	6.6	138.8	0	-	1014
1	150	39.8	5.3	62.6	6.6	153.3	0	-	1014
2	152	44.9	5.6	71.8	6.9	162.0	0	-	1013
3	146	44.6	6.0	81.7	8.1	163.4	0	-	1013
4	150	43.2	5.7	72.9	7.2	156.1	0	-	1014
5	144	39.2	6.3	68.5	6.9	135.6	0	-	1014
6	121	44.0	6.6	63.4	6.9	109.7	0	-	1014
7	124	45.6	6.7	59.3	8.4	78.6	0	-	1014
8	118	42.2	6.8	68.8	7.5	49.2	1	SSE	1015
9	120	28.5	6.1	50.5	6.0	31.2	1	SE	1015
10	130	34.4	6.5	58.6	6.3	23.5	3	S	1015
11	118	39.6	6.7	66.3	6.6	34.5	4	SSE	1015
12	155	46.7	5.7	69.6	6.0	55.4	6	S	1015
13	184	42.1	4.5	67.4	6.3	86.7	5	S	1014
14	201	41.9	3.7	75.8	2.4	118.6	6	S	1014
15	197	46.8	3.6	72.9	3.3	142.8	4	S	1014
16	199	59.4	3.6	97.8	2.7	158.4	5	S	1014
17	206	60.4	3.7	87.9	3.9	162.8	7	S	1014
18	188	72.9	3.9	96.7	4.2	157.5	4	SW	1014
19	195	56.4	3.8	97.8	3.6	143.9	5	SW	1014
20	196	46.0	3.6	68.5	3.3	129.4	5	SSW	1015
21	190	34.8	4.2	52.4	4.2	117.4	6	S	1015
22	197	39.2	4.0	68.1	4.2	113.1	5	S	1015
23	196	49.3	3.7	82.4	3.6	115.4	3	SSW	1015

HOUR	WAVE NUMBER	19/9		07 23		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	194	43.8	4.0	75.1	3.9	126.6	5	SW	1015
1	184	54.9	4.2	87.9	3.6	143.2	4	WSW	1015
2	201	56.0	3.8	94.1	3.9	157.9	5	SW	1014
3	197	58.2	3.7	87.5	3.3	166.7	3	SW	1014
4	209	51.1	3.6	87.9	2.1	166.4	3	WSW	1014
5	210	45.8	3.4	85.3	2.7	153.6	3	SW	1014
6	201	34.9	3.8	61.5	3.0	131.7	2	W	1015
7	206	35.5	3.6	54.9	3.9	98.2	4	SW	1015
8	211	36.2	3.6	54.9	3.0	63.5	4	SSW	1015
9	192	27.9	3.6	50.2	6.9	36.8	3	SSW	1015
10	189	33.3	4.3	56.8	3.9	19.8	5	S	1014
11	193	58.2	4.0	87.9	4.2	21.6	8	S	1014
12							9	S	1013
13							8	SSW	1013
14							8	SW	1012
15							9	SW	1012
16							9	SW	1012
17							10	SW	1011
18							9	SW	1011
19							6	SW	1011
20	152	107.4	4.5	200.0	5.1	137.9	5	SW	1012
21	152	89.6	5.0	166.6	4.8	122.0	4	SW	1012
22	149	82.1	5.0	166.6	5.4	111.5	4	SW	1012
23	144	69.7	5.0	103.6	3.9	110.1	6	SW	1012

HOUR	WAVE NUMBER	19/9		07 24		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	145	83.3	5.3	158.6	5.1	115.2	4	SW	1012
1	140	73.1	5.4	133.3	5.1	131.3	4	WSW	1012
2	137	82.7	5.3	137.7	4.5	149.6	5	SW	1012
3	144	81.4	5.4	156.0	5.1	164.4	5	SSW	1012
4	157	73.9	4.9	137.0	4.5	171.3	5	S	1012
5	153	76.0	5.0	112.8	4.8	166.2	5	S	1012
6	153	57.8	5.3	99.6	7.5	152.2	4	SW	1012
7	168	51.0	4.7	96.7	6.0	122.8	3	SSW	1012
8	166	54.3	4.6	85.7	6.0	86.6	6	S	1013
9	161	58.6	5.4	84.6	6.9	52.4	5	S	1013
10	148	63.5	5.9	98.5	6.3	24.6	5	S	1013
11	180	68.5	4.6	112.8	5.1	16.1	7	SSW	1012
12	173	73.7	4.6	137.3	8.7	22.5	7	SSW	1012
13	167	74.6	4.8	117.2	3.9	46.4	7	S	1012
14	160	81.1	4.7	132.6	8.4	77.3	7	S	1011
15	162	97.8	4.4	162.6	4.8	111.9	7	S	1011
16	160	106.9	4.7	145.4	4.5	142.3	8	SSW	1010
17	166	104.1	4.4	158.2	3.9	160.5	8	SSW	1010
18	162	102.4	5.1	149.0	8.7	167.4	7	SSW	1010
19	155	95.7	5.0	132.6	5.4	157.9	6	SSW	1011
20	148	89.3	5.2	118.3	4.2	142.7	6	SSW	1011
21	144	76.3	5.6	119.4	5.1	126.7	6	SW	1012
22	138	68.5	6.1	104.7	8.4	108.7	3	W	1012
23							3	N	1012

HOUR	WAVE NUMBER	1979		07 25		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	116	62.5	7.3	92.7	8.4	103.5	4	N	1012
1							3	N	1012
2							1	W	1012
3							3	SW	1012
4							3	SW	1012
5							4		1013
6							4	SW	1012
7							4	SW	1013
8							4	S	1013
9							5	SSE	1013
10							4	S	1013
11	124	44.5	8.2	63.0	10.5	23.0	4	S	1012
12							6	S	1012
13							5	S	1012
14							6	S	1011
15							5	SSW	1010
16							2	SSW	1010
17							3	SW	1011
18							2	NE	1011
19							3	N	1012
20							4	NNE	1013
21	150	56.1	6.3	99.6	7.8	137.7	5	NNE	1013
22	120	53.6	7.1	92.7	9.0	115.2	5	N	1013
23							4	NNW	1014

HOUR	WAVE NUMBER	1979		07 26		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0							3	N	1014
1							2	N	1014
2							4	N	1014
3							4	N	1014
4							3	N	1014
5							3	N	1014
6							3	N	1015
7							2	N	1015
8							2	N	1015
9							1	S	1015
10							3	SSW	1015
11							2	S	1015
12							3	SE	1015
13							4	S	1015
14							4	SSW	1015
15							3	SSW	1015
16	107	45.2	8.4	69.6	9.6	112.2	4	S	1015
17	122	49.0	7.8	83.5	9.6	140.9	4	SSE	1015
18	144	54.9	6.3	105.1	10.2	160.9	4	SE	1015
19	164	60.4	5.6	107.7	7.8	166.4	4	SSE	1016
20	160	51.8	5.7	93.8	7.8	156.1	4	SE	1016
21	133	50.3	7.6	92.3	8.1	137.0	3	ESE	1017
22	153	37.4	6.8	76.9	9.9	115.6	4	SE	1017
23	104	47.3	8.8	79.1	8.7	95.9	3	E	1017

HOUR	WAVE NUMBER	1979		07 27		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	110	42.8	8.5	71.8	9.3	88.0	0	-	1017
1	114	38.2	7.9	65.6	7.5	90.6	0	-	1017
2	110	42.5	8.7	69.2	8.7	100.9	0	-	1016
3	110	43.7	7.9	71.0	9.6	121.2	0	-	1016
4	99	46.4	8.1	91.9	9.9	142.7	0	-	1016
5	118	42.9	7.5	69.9	8.1	158.9	1	S	1017
6	114	49.0	7.6	74.3	8.4	164.3	3	SE	1017
7	120	38.4	7.6	65.6	9.3	156.5	3	SE	1017
8	145	27.8	6.3	42.1	6.0	135.2	3	SE	1017
9	134	29.1	7.4	39.6	4.5	106.4	4	SSE	1017
10	127	34.4	7.8	56.8	7.8	74.9	4	S	1017
11	111	39.7	7.7	65.2	7.5	44.6	4	S	1017
12	117	40.6	8.0	56.4	6.9	26.7	3	S	1016
13	124	38.6	7.3	58.2	6.3	28.5	2	SSW	1016
14	134	34.7	6.6	58.2	9.0	41.2	3	S	1016
15	131	38.0	7.1	60.8	6.3	67.4	1	SW	1016
16	143	33.8	6.5	73.6	7.5	100.2	3	W	1015
17	114	38.1	8.0	81.7	7.5	132.4	3	N	1015
18	146	36.9	6.2	67.4	9.6	153.8	4	N	1015
19	178	42.1	5.1	62.3	8.7	162.3	1	NW	1016
20	140	41.5	7.1	79.5	9.3	160.4	3	N	1016
21	141	34.5	6.3	52.7	8.4	148.5	0	-	1016
22	125	36.2	7.2	61.9	9.0	127.1	0	-	1016
23	133	34.8	6.9	64.1	7.5	108.5	0	-	1015

HOUR	WAVE NUMBER	1979		07 28		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	152	30.2	6.2	50.2	9.3	90.6	3	SW	1014
1	117	33.8	7.7	54.2	9.3	87.4	2	S	1014
2	113	36.1	7.9	63.4	7.5	95.8	2	N	1014
3	107	42.9	7.8	61.9	7.5	110.3	1	N	1013
4	132	33.4	7.5	69.2	8.4	132.9	1	N	1013
5	119	41.3	7.7	73.6	7.2	150.6	1	N	1012
6	115	55.6	7.5	81.7	9.0	160.0	0	-	1012
7	136	51.1	6.3	73.2	8.1	158.4	0	-	1012
8	165	49.3	4.9	71.0	3.0	146.9	1	SSW	1012
9	173	50.6	4.9	86.1	7.8	128.5	4	SSW	1011
10	186	54.6	4.0	97.4	7.8	98.1	7	SSW	1011
11	181	56.8	4.3	76.9	3.3	71.0	8	SSW	1010
12	183	54.6	4.1	87.9	6.0	47.6	7	S	1010
13	171	57.1	4.6	83.1	3.6	38.8	6	SSW	1009
14	159	54.0	4.6	75.8	4.5	45.3	5	S	1009
15	172	56.8	4.7	98.1	4.8	64.1	6	SSW	1008
16	175	64.4	4.5	94.5	4.2	92.6	6	SSW	1007
17	162	83.3	4.6	120.5	5.4	122.1	7	SSW	1007
18	173	84.5	4.5	130.4	4.5	148.5	7	SSW	1007
19	174	91.8	4.5	127.1	4.8	167.1	7	SW	1007
20	158	95.9	4.9	152.0	5.1	171.9	6	SW	1007
21	154	88.8	4.9	145.8	5.1	162.0	5	WNW	1007
22	143	85.5	5.0	123.0	6.3	143.5	0	-	1007
23	145	65.1	5.4	110.6	5.4	121.6	3	ESE	1006

		1979		07		29				
HOUR	WAVE	H	I	H	T	TIDE	WIND			
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL DIR	PRES		
0	128	69.2	5.5	131.5	5.7	100.9	1 E	1006		
1	128	66.7	5.7	94.1	7.2	94.3	2 NNW	1005		
2	132	65.4	5.8	101.1	6.3	92.2	2 N	1005		
3	123	68.5	5.6	112.1	5.4	102.0	1 NNE	1005		
4	134	64.2	5.5	107.3	5.1	121.8	2 NNW	1005		
5	134	72.1	5.3	110.6	5.7	140.5	0 -	1005		
6	134	84.5	5.3	141.0	4.5	155.4	0 -	1005		
7	137	70.9	5.6	107.7	4.8	159.8	1 N	1006		
8	146	69.5	5.1	117.2	4.8	155.6	3 N	1006		
9	155	61.5	4.9	97.0	4.5	140.2	2 ENE	1006		
10	144	60.2	5.1	94.8	5.7	114.7	4 SE	1006		
11	133	68.3	5.9	102.5	6.9	89.0	3 S	1006		
12	136	58.1	5.8	91.6	6.9	66.0	4 S	1006		
13	128	59.7	6.0	106.2	6.9	50.1	5 S	1006		
14	125	55.3	5.6	89.0	5.1	50.1	4 SW	1005		
15	127	54.4	5.8	78.7	4.5	60.7	4 SW	1005		
16	121	58.6	5.8	100.3	6.0	84.4	3 WSW	1006		
17	127	59.1	6.1	124.9	6.0	113.5	1 W	1006		
18	120	68.9	6.5	102.9	8.1	139.1	0 -	1006		
19	135	66.7	5.9	115.4	7.2	161.1	1 NW	1007		
20	120	74.6	6.3	102.9	5.4	167.8	1 N	1007		
21	131	61.4	5.8	105.5	6.0	163.7	0 -	1008		
22	144	58.9	5.7	99.2	6.0	151.0	0 -	1008		
23	137	53.2	6.1	82.0	5.7	129.6	0 -	1008		

		1979		07		30				PRES
HOUR	WAVE	H	I	H	T	TIDE	WIND			
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL DIR			
0	138	48.0	6.0	72.5	6.3	107.6	0 -			1008
1	136	50.8	6.3	75.1	5.1	90.6	0 -			1008
2	115	47.7	6.5	71.0	5.4	83.0	0 -			1008
3	121	53.9	6.4	77.6	6.0	87.1	2 NNW			1008
4	125	52.5	6.1	75.4	6.3	96.5	1 NNW			1008
5	117	55.6	5.9	87.9	5.7	112.0	0 -			1008
6	126	57.5	5.7	91.6	4.8	130.4	3 N			1009
7	133	59.1	5.6	102.9	5.4	144.1	2 NNE			1009
8	131	69.1	5.9	107.7	5.1	143.9	3 SSE			1009
9	138	53.5	5.7	76.9	4.5	138.2	4 SSE			1009
10	147	57.2	5.7	92.7	6.9	124.1	3 S			1009
11	137	44.9	5.7	63.4	6.0	102.1	4 SSE			1009
12	123	40.1	6.4	59.0	7.2	79.3	3 S			1009
13	125	39.7	6.3	58.6	6.6	65.5	3 S			1009
14	128	33.4	6.2	54.2	8.7	58.1	3 S			1009
15	134	39.9	5.6	71.8	5.7	64.3	3 SW			1008
16	127	54.2	5.8	77.6	3.6	78.1	4 SSE			1008
17	132	72.2	5.6	113.9	5.4	101.8	3 SSW			1008
18	146	90.0	5.2	121.6	4.5	126.0	7 S			1008
19	139	108.3	5.3	146.1	5.4	147.6	6 S			1008
20	146	105.5	5.1	178.7	4.8	160.5	3 WSW			1009
21	142	110.8	5.5	216.4	5.7	159.7	4 WSW			1009
22	143	96.1	5.4	142.8	5.7	149.4	5 WSW			1009
23	143	79.7	5.2	154.9	5.7	134.9	0 -			1009

HOUR	WAVE NUMBER	1979		07		TIDE	WIND		PRES
		H (1/3)	T (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	135	70.2	5.7	127.8	5.4	116.1	3	N	1010
1	134	59.9	6.0	84.2	5.4	96.6	3	N	1010
2	130	58.7	5.7	90.1	6.0	84.1	3	N	1010
3	120	59.6	6.0	97.4	6.3	82.3	3	N	1010
4	122	63.4	6.3	88.3	5.4	84.3	0	-	1011
5	118	72.0	6.0	111.3	6.3	96.1	0	-	1012
6	126	74.3	5.9	106.2	8.4	111.7	0	-	1012
7	118	84.2	6.1	170.7	6.9	128.0	0	-	1013
8	113	92.7	6.4	161.9	6.3	132.4	4	S	1013
9	116	87.2	7.1	163.0	4.8	131.2	4	NE	1013
10	133	72.5	6.2	116.1	6.3	121.2	4	SSE	1013
11	125	71.8	6.8	110.6	7.5	108.3	5	SW	1013
12	114	62.8	7.9	90.8	8.1	94.0	5	SW	1013
13	113	55.4	7.5	93.0	11.1	80.5	5	SSW	1013
14	126	52.0	7.0	98.1	9.9	71.2	6	S	1013
15	138	47.8	6.6	75.1	7.2	71.0	5	S	1012
16	138	46.2	6.5	64.8	4.8	78.2	3	SSW	1012
17	128	62.7	6.9	111.0	7.2	91.9	2	SW	1012
18	136	61.7	6.5	93.8	7.5	114.3	3	ESE	1012
19	137	57.8	6.6	114.6	6.6	133.8	3	ESE	1013
20	129	81.5	7.0	126.7	8.4	148.5	0	-	1013
21	127	84.5	6.4	126.0	6.6	152.9	4	SW	1014
22	141	86.9	6.0	137.0	4.2	148.3	3	W	1014
23	130	90.7	6.1	145.8	6.0	133.3	4	WSW	1014

		1979		08	01				
HOUR	WAVE NUMBER	H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	WIND		PRES
							VEL	DIR	
0	122	89.0	7.2	133.3	8.1	115.4	4	WSW	1014
1	135	64.4	6.0	94.8	4.8	95.8	4	WSW	1014
2	133	61.0	6.3	97.0	4.5	78.1	5	SSW	1014
3	123	64.5	6.5	91.9	8.7	70.3	3	W	1014
4	116	57.9	6.8	90.5	5.1	67.8	3	WSW	1014
5	109	63.9	7.3	94.8	9.3	71.9	4	SW	1014
6	128	60.6	6.6	111.7	5.4	84.6	5	SSW	1014
7	132	74.2	6.6	108.0	8.4	98.1	5	SSW	1015
8	131	74.2	6.2	110.6	10.2	109.9	5	SSW	1015
9	143	80.9	6.2	147.9	10.5	116.6	7	S	1015
10	134	99.8	5.9	147.6	8.7	119.3	7	S	1015
11	144	106.1	5.2	171.0	3.0	114.0	7	S	1014
12	139	122.9	6.1	225.6	7.2	105.0	9	S	1014
13	146	120.2	5.3	153.8	3.6	95.4	9	S	1014
14	157	102.1	4.8	162.2	4.2	85.3	10	S	1013
15	151	105.5	5.4	166.6	8.7	82.1	10	SSW	1013
16							10	SSW	1013
17							10	SSW	1013
18							9	SSW	1013
19	151	99.7	5.2	146.9	4.8	120.5	8	SW	1014
20	134	107.7	6.1	157.1	5.4	137.5	5	SW	1014
21	137	102.9	5.8	159.7	5.1	150.3	5	SW	1015
22	133	109.1	6.1	160.0	8.1	154.0	5	WSW	1015
23	132	102.0	5.5	150.5	5.1	146.7	5	SW	1015

		1979		08	02				
HOUR	WAVE	H	I	H	T	TIDE	WIND		
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	PRES
0	141	81.8	5.6	144.3	4.8	132.6	5	SW	1015
1	146	79.2	5.3	130.7	4.5	115.4	4	SW	1014
2	146	70.0	5.5	102.2	6.9	94.9	4	SW	1014
3	141	65.2	5.7	94.1	5.7	78.8	3	WSW	1014
4	126	67.7	6.2	108.8	5.7	68.1	0	-	1015
5	139	62.0	6.4	82.0	5.1	64.4	3	WSW	1015
6	142	64.3	6.1	105.5	6.9	67.3	4	SW	1015
7	146	70.3	5.6	108.4	9.9	77.9	7	SW	1015
8	149	77.5	5.8	147.6	9.0	86.0	10	SSW	1015
9	155	78.8	5.2	133.3	6.3	96.5	8	SSW	1015
10	169	79.9	4.6	149.0	5.1	106.7	9	S	1014
11	168	90.2	4.8	135.9	6.3	112.0	8	S	1014
12	146	119.4	4.7	216.1	5.7	114.2	9	SSW	1013
13	140	114.3	5.3	196.3	3.6	108.7	9	SSW	1013
14	137	115.6	5.9	163.0	4.8	103.7	9	SSW	1012
15	147	93.3	5.3	141.7	4.2	94.5	8	S	1012
16	139	88.1	5.5	131.8	10.8	93.1	6	SSW	1012
17	126	83.6	6.4	121.6	5.7	94.5	7	S	1012
18	127	85.6	6.1	120.5	6.6	99.5	2	SSW	1012
19	128	85.8	6.8	155.6	6.0	114.3	5	WSW	1013
20	135	92.5	5.8	135.9	9.9	124.1	6	SW	1013
21	133	99.6	5.9	156.0	10.2	137.2	5	WSW	1013
22	134	105.0	6.2	161.5	4.5	140.7	5	WSW	1014
23	126	103.9	6.7	166.6	6.6	140.0	4	N	1014

HOUR	WAVE NUMBER	1979		08 03		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	118	101.0	6.9	150.5	12.3	132.6	4	N	1014
1	109	97.0	7.3	146.5	9.3	116.5	3	NW	1014
2	119	85.7	6.8	127.1	11.1	102.3	2	W	1014
3	114	68.8	6.9	113.5	5.4	84.1	3	SW	1014
4	118	65.8	7.5	108.4	9.3	68.5	2	N	1014
5	100	68.3	8.1	98.1	10.5	56.8	2	N	1014
6	99	63.6	8.8	94.8	10.5	49.9	2	E	1015
7	92	70.9	8.5	106.2	10.2	52.9	2	NE	1015
8	121	58.5	7.5	89.0	8.7	60.0	2	N	1015
9	111	65.7	7.2	119.4	9.9	72.4	3	S	1015
10	118	66.5	7.7	103.6	9.9	86.2	3	NE	1015
11	105	68.6	8.5	108.4	12.0	98.1	3	E	1014
12	106	66.9	8.2	92.7	11.1	109.0	3	S	1014
13	113	74.7	8.3	124.9	7.8	116.8	3	S	1014
14	102	74.9	8.8	129.3	10.2	116.3	3	SSW	1013
15	99	76.4	8.6	112.1	10.5	113.1	4	SW	1013
16	95	74.0	8.8	107.3	11.1	108.1	4	SSW	1013
17	91	71.9	8.9	102.9	8.4	102.7	3	S	1013
18	99	72.1	8.7	101.8	9.3	101.2	4	S	1013
19	88	74.6	9.3	101.4	11.1	102.8	3	S	1013
20	88	72.1	9.2	105.8	8.4	112.4	3	S	1013
21	103	64.5	8.1	118.7	8.4	122.5	2	SSE	1013
22	101	69.8	8.7	96.7	10.2	133.5	0	-	1013
23	111	63.4	8.2	115.4	9.9	140.4	1	E	1012

HOUR	WAVE NUMBER	1979		08 04		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	87	78.3	10.0	104.0	11.1	138.1	3	NNW	1012
1	95	78.2	10.4	129.3	10.8	130.3	3	N	1012
2	121	70.8	8.4	130.7	10.8	118.2	7	NNE	1011
3	118	60.5	8.7	96.7	10.5	100.9	7	NNE	1011
4	126	45.4	8.5	87.9	9.3	80.7	7	NNE	1011
5	108	46.3	9.2	61.2	8.4	62.8	7	NNE	1011
6	97	37.3	10.2	60.4	11.1	47.6	6	NNE	1011
7	107	31.1	9.1	50.2	9.3	40.5	6	NNE	1011
8	85	34.1	9.5	48.7	9.3	39.6	4	NE	1011
9	86	44.0	9.5	63.7	12.6	46.6	3	N	1011
10	91	51.9	9.6	68.5	10.5	63.7	3	S	1011
11	115	52.7	8.8	78.0	10.5	82.5	4	SSW	1010
12	136	50.0	7.2	86.4	9.3	105.1	5	SW	1010
13	120	53.7	8.4	95.6	7.8	124.1	4	SW	1009
14	128	60.3	8.1	100.3	9.9	132.9	4	SW	1009
15	131	56.2	7.6	101.1	10.5	135.8	4	SW	1009
16	132	54.8	7.1	102.2	9.0	133.8	5	S	1008
17	117	55.0	7.8	102.5	8.1	126.6	4	SSW	1008
18	117	49.7	7.8	85.0	8.4	116.5	5	S	1008
19	111	54.1	8.3	87.2	8.1	111.2	4	SSW	1007
20	101	60.0	8.7	108.4	9.3	110.8	4	S	1007
21	107	55.0	8.6	85.0	10.2	120.0	4	SSE	1007
22	105	60.0	8.6	90.8	10.5	131.7	2	SSW	1006
23	109	54.0	8.4	85.0	9.9	141.6	2	NNW	1006

		1979		08	05				
HOUR	WAVE NUMBER	H (1/3)	I (1/3)	H (MAX)	T (MAX)	TIDE	WIND VEL DIR		PRES
0	103	52.7	8.1	93.8	9.0	153.3	2	N	1006
1	129	56.8	6.3	96.7	6.3	154.9	3	W	1005
2	132	84.0	5.6	115.0	9.0	148.0	3	N	1005
3	141	84.9	5.3	144.7	4.2	133.3	2	W	1004
4	145	73.5	6.1	139.2	6.9	115.6	2	W	1004
5	138	54.5	6.1	87.9	8.1	90.1	3	N	1004
6	130	49.6	6.6	83.9	9.3	65.3	4	NNW	1005
7	127	37.4	5.8	53.1	2.4	46.9	0	-	1005
8	99	41.4	8.2	62.3	8.7	31.9	4	N	1005
9	103	45.4	7.0	67.4	5.4	31.5	3	ENE	1005
10	111	50.7	6.6	74.3	6.9	41.6	3	SE	1005
11	128	62.7	6.6	93.0	8.7	65.3	4	SE	1005
12	128	62.2	6.5	82.0	7.8	89.7	4	SSE	1004
13	143	94.6	5.6	161.1	8.1	117.5	7	SW	1004
14	147	105.9	5.3	147.2	7.5	139.3	6	SW	1003
15	138	119.2	5.5	166.3	5.1	151.3	6	SSW	1003
16	138	118.1	5.6	152.0	7.2	155.1	7	SSW	1003
17	141	121.6	5.1	175.8	5.1	146.7	9	SSW	1003
18	138	121.5	5.6	180.5	6.6	137.2	7	SW	1004
19	128	120.5	6.2	161.1	5.1	123.5	3	WSW	1004
20	134	103.3	5.6	162.6	4.8	114.9	5	SW	1005
21	129	107.8	5.6	158.2	6.0	114.9	4	SW	1005
22	129	96.7	6.0	178.7	5.7	121.1	4	SW	1005
23	139	106.6	5.4	147.2	7.2	135.2	7	SW	1005

HOUR	WAVE NUMBER	1979		08		T	06		
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		TIDE	WIND VEL DIR	PRES
0	129	103.3	5.7	147.6	5.7	145.1	7	SSW	1006
1	144	97.2	5.5	148.3	6.0	156.6	3	W	1006
2	147	103.3	5.1	151.6	5.1	161.6	6	SW	1006
3	166	84.2	4.6	139.2	4.2	153.1	5	WSW	1006
4	149	80.0	5.1	141.7	5.1	137.0	3	WSW	1006
5	154	67.9	5.2	121.9	4.5	112.2	2	NNW	1007
6	130	64.6	5.8	103.6	5.4	80.5	3	N	1007
7	118	56.5	6.1	116.1	7.2	48.0	3	NE	1008
8	115	54.0	5.8	98.1	6.0	22.3	5	NNE	1008
9	130	39.8	5.8	64.1	6.3	8.5	4	N	1009
10	116	51.2	6.4	75.8	8.4	11.2	3	NNE	1009
11	117	50.7	6.1	91.6	6.6	28.1	4	SSW	1008
12	146	51.7	5.6	74.0	5.7	57.7	7	S	1008
13	141	63.1	5.8	81.3	6.6	91.7	6	S	1008
14	144	81.2	5.6	128.5	7.8	121.1	6	S	1008
15	148	90.2	5.7	145.8	6.0	146.0	7	SSW	1007
16	160	94.2	5.3	139.5	7.5	160.0	9	SSW	1007
17	152	93.3	5.4	137.0	5.4	158.4	8	SSW	1007
18	157	109.4	5.0	176.5	4.2	145.7	10	SSW	1007
19	166	106.0	4.7	150.1	4.5	128.5	11	SW	1008
20	164	100.1	4.5	150.1	4.8	113.6	8	SW	1008
21	153	97.4	4.9	151.2	4.5	101.6	9	S	1008
22	144	85.9	5.4	138.1	4.8	98.2	7	S	1008
23	148	95.2	4.9	177.2	4.8	108.1	8	SW	1008

HOUR	WAVE NUMBER	1979		08		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	152	104.0	5.2	138.4	6.3	123.0	10	SW	1008
1	158	114.3	5.2	150.1	4.5	144.1	11	SW	1007
2	170	119.8	4.7	171.4	6.6	159.7	13	SW	1007
3	153	121.7	5.3	197.8	7.2	165.8	12	SW	1007
4	152	120.7	4.9	173.2	5.7	161.6	11	SSW	1007
5	146	126.1	4.9	165.2	4.8	140.7	11	SSW	1008
6	153	114.5	4.4	172.1	4.8	108.7	13	SW	1008
7	150	74.5	4.8	125.2	5.4	73.6	7	SW	1008
8	141	42.5	5.5	82.8	4.5	37.3	9	S	1008
9	154	35.3	4.8	67.4	5.7	9.7	10	SSW	1008
10	158	39.9	5.1	76.9	8.7	-1.1	10	SSW	1008
11	143	46.4	5.1	96.7	4.2	6.2	9	SSW	1008
12	124	51.6	5.5	84.2	5.1	27.3	8	SSW	1008
13	141	61.9	5.2	84.6	2.4	59.8	9	SSW	1008
14	159	84.7	4.8	149.0	4.8	99.8	7	SSW	1008
15	154	101.0	4.9	138.4	4.5	132.0	7	SSW	1008
16	156	119.1	4.6	169.9	4.5	157.4	7	S	1008
17	158	122.0	4.7	181.3	4.5	167.6	9	S	1008
18	169	104.6	4.7	164.4	6.0	163.4	9	SSW	1008
19	156	112.3	4.7	204.0	4.5	147.8	10	SSW	1008
20	165	92.0	4.5	155.6	4.2	125.3	9	SSW	1008
21	153	76.9	4.8	123.0	6.3	104.6	7	S	1009
22	164	74.1	4.5	126.7	3.9	96.5	8	S	1009
23	171	72.4	4.6	120.8	6.9	95.2	11	SSW	1009

HOUR	WAVE NUMBER	1979		08		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	174	70.4	4.6	137.7	5.1	107.8	10	SSW	1009
1	154	73.5	5.3	115.0	3.0	129.7	6	SW	1008
2	156	84.1	4.9	124.5	6.0	154.2	6	SSW	1008
3	164	92.2	5.0	127.4	3.6	171.3	6	SSW	1008
4	151	83.3	5.2	146.9	5.7	177.9	4	N	1008
5	148	78.3	5.2	108.0	4.8	165.8	4	NNW	1009
6							3	N	1009
7							5	N	1010
8							5	NE	1010
9							2	E	1010
10	129	31.2	5.9	44.7	3.9	0.0	5	SSE	1010
11	125	34.2	6.4	45.4	9.0	-8.0	5	S	1010
12	130	31.5	6.3	65.2	5.7	4.1	6	S	1010
13	150	30.0	5.4	51.6	5.7	29.0	5	SSW	1010
14	179	41.7	5.0	91.9	6.9	68.3	5	SSW	1010
15	169	52.6	5.0	83.1	4.5	110.1	7	S	1010
16	153	76.8	5.6	111.3	5.1	145.1	5	S	1010
17	187	73.1	4.1	104.7	6.0	165.0	8	S	1010
18	174	73.7	4.7	137.3	5.1	172.6	5	S	1010
19	172	80.6	4.7	124.9	4.2	159.8	3	SW	1010
20	173	71.3	4.7	105.5	4.8	137.4	0	-	1011
21	157	53.5	5.4	82.0	6.3	112.6	1	NE	1011
22	135	36.9	5.7	66.7	7.8	92.0	1	NNW	1011
23	127	31.8	7.0	51.6	7.5	83.4	2	NE	1011

HOUR	WAVE NUMBER	1979		08	09	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	114	37.2	7.3	54.2	7.2	86.2	2	NNE	1012
1	114	43.5	7.5	67.0	6.9	105.3	3	NNE	1011
2	102	49.6	7.6	79.1	7.5	132.4	3	N	1011
3	108	47.0	7.7	77.3	9.0	160.0	2	NNW	1011
4	129	48.2	7.0	85.0	7.5	182.8	3	N	1011
5	139	46.7	6.6	78.4	9.3	182.5	3	N	1012
6	144	44.8	6.6	71.4	7.8	165.1	4	NNE	1012
7	154	36.5	6.6	60.4	7.5	131.9	5	NNE	1012
8	146	29.0	6.6	47.6	8.1	90.4	5	NNE	1013
9	115	18.6	7.3	28.2	8.1	47.4	5	NE	1012
10							4	NE	1012
11							5	SSE	1012
12							5	SSW	1012
13							5	S	1011
14	145	45.1	7.3	74.7	6.9	41.2	5	SSW	1011
15	147	43.8	6.6	71.8	7.2	82.1	5	S	1011
16	150	40.8	6.5	74.3	6.3	123.7	4	SSW	1011
17	138	52.3	7.0	69.9	8.1	155.2	4	SSW	1011
18	127	44.5	6.8	68.8	8.4	168.9	4	SSW	1011
19	143	48.2	6.7	84.6	7.5	167.6	3	S	1011
20	116	47.9	7.7	78.7	7.5	150.1	4	SSW	1012
21	136	44.2	7.1	76.5	9.3	126.0	4	SW	1012
22	114	36.5	7.7	66.7	7.5	102.0	0	-	1012
23	100	42.1	8.5	74.3	7.2	83.0	0	-	1012

HOUR	WAVE NUMBER	1979		08	10	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	96	42.7	8.7	56.4	10.5	76.8	0	-	1012
1	101	51.8	8.2	73.2	8.7	88.0	0	-	1011
2	88	59.0	7.8	94.1	7.2	109.4	3	N	1011
3	95	62.4	8.1	105.1	7.8	137.5	3	N	1011
4	97	76.8	7.8	119.0	7.2	165.3	5	N	1011
5	117	70.6	7.4	102.2	9.3	182.0	5	N	1012
6	113	67.9	7.9	105.1	8.1	179.3	4	N	1012
7	114	66.8	7.9	95.9	8.4	162.8	4	N	1012
8	110	50.3	7.8	84.2	9.9	127.6	3	N	1012
9	96	55.6	8.7	80.6	9.6	87.1	4	E	1012
10	110	55.7	8.3	81.3	9.3	47.4	5	SSW	1012
11							5	SSW	1011
12	97	72.4	8.0	92.3	8.7	3.0	5	SSW	1011
13	115	80.7	8.1	117.2	7.2	5.0	6	SW	1011
14	132	62.6	7.3	117.9	7.2	29.0	6	SSW	1010
15	131	75.0	6.8	126.0	8.4	61.4	6	SSW	1010
16	129	67.7	6.8	120.1	6.9	106.6	6	S	1010
17	124	83.6	6.6	109.1	6.9	143.4	7	S	1010
18	137	85.1	6.4	133.7	9.0	165.3	6	S	1010
19	124	79.2	6.7	106.2	9.0	174.3	5	SW	1010
20	143	74.6	6.4	120.5	8.1	164.6	6	S	1010
21	160	65.2	5.7	92.3	7.8	143.5	6	S	1010
22	158	48.5	5.8	88.6	5.7	115.2	6	SSW	1010
23	141	45.3	6.6	70.7	8.1	88.0	6	S	1010

HOUR	WAVE NUMBER	1979		08	11	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	134	45.2	6.7	69.9	5.1	72.9	5	S	1010
1	136	46.8	6.9	76.2	7.2	72.7	0	-	1010
2	114	49.3	7.4	87.9	6.9	88.0	0	-	1009
3	97	56.0	7.6	93.4	7.2	115.2	0	-	1009
4	101	67.1	7.5	115.0	6.6	140.5	4	N	1009
5	108	70.8	7.4	115.7	7.8	163.2	4	NNE	1010
6	124	70.3	7.0	105.8	6.6	180.9	4	NE	1010
7	119	61.4	7.0	95.9	8.1	177.5	3	NW	1009
8	105	55.9	8.0	88.3	8.4	157.9	3	N	1010
9	102	45.6	7.6	68.5	7.8	122.5	3	NE	1009
10	118	51.0	7.7	78.0	9.3	86.6	5	SSE	1009
11	123	49.0	7.8	68.5	7.8	53.1	4	S	1009
12	118	53.6	8.2	82.8	8.4	30.1	4	SSW	1009
13	130	50.9	7.5	70.7	7.2	23.4	4	SW	1008
14	117	54.2	7.5	82.0	7.8	31.0	4	SW	1008
15	122	50.1	7.7	87.2	7.8	57.7	5	SSW	1008
16	120	50.2	7.3	68.8	6.9	90.4	5	SW	1008
17	130	57.4	7.1	90.5	7.2	129.0	5	SSW	1008
18	122	71.8	7.2	102.9	6.9	155.1	5	S	1008
19	137	62.0	7.1	100.7	7.8	170.6	5	S	1009
20	127	68.7	7.5	108.4	8.1	171.7	3	WSW	1009
21	128	60.6	7.3	111.7	8.1	153.5	3	SSW	1009
22	121	44.0	7.3	66.3	7.8	124.8	1	W	1009
23	140	36.9	7.2	59.7	8.7	97.5	2	ENE	1009

HOUR	WAVE NUMBER	1979		08	12	TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	94	42.4	8.7	62.6	11.7	75.8	3	NE	1009
1	99	45.0	8.1	68.8	8.7	67.1	3	NNE	1009
2	108	37.5	8.1	57.5	7.5	70.1	3	N	1009
3							4	N	1009
4							4	NNW	1009
5							3	NE	1009
6	130	63.3	6.8	101.8	6.6	156.3	4	NNE	1009
7	125	54.0	7.2	81.7	4.5	166.4	4	N	1010
8	130	59.3	7.5	85.7	8.1	159.8	4	N	1009
9	115	52.1	8.1	72.1	9.6	141.2	3	NNE	1009
10	116	43.4	7.9	63.0	10.2	111.2	4	NE	1009
11	104	45.4	8.4	63.4	7.8	79.8	5	SE	1009
12	122	48.0	8.4	78.4	7.8	55.8	4	SSW	1008
13	114	52.0	8.3	83.5	10.2	42.3	3	SSW	1008
14	121	46.6	7.7	74.7	9.6	43.9	4	SW	1007
15	138	49.8	7.3	78.4	7.2	57.0	5	SSW	1007
16	127	45.9	7.4	85.3	7.2	80.2	5	S	1007
17							6	SW	1007
18							6	SW	1008
19							3	SW	1008
20	129	58.1	6.9	82.8	7.8	169.7	1	SW	1009
21	130	53.2	6.7	80.2	5.4	162.3	3	W	1009
22	125	48.4	6.8	63.7	7.5	140.9	2	NW	1009
23	107	35.5	7.8	56.8	8.7	113.1	4	N	1009

		1979		08	13			
HOUR	WAVE	H	I	H	T	TIDE	WIND	PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL DIR	
0	137	29.0	7.2	44.3	9.0	89.7	4 NNW	1009
1	106	36.8	8.6	58.6	7.5	70.6	3 N	1008
2	114	35.9	7.9	56.4	8.1	60.2	4 NNE	1008
3	132	35.1	7.7	67.0	9.0	66.4	6 NNE	1008
4	126	33.3	8.3	58.6	8.1	82.8	5 NNE	1008
5	105	36.0	8.2	50.2	10.5	106.2	5 N	1008
6	127	34.9	7.5	60.8	7.5	129.0	4 NNW	1008
7	140	46.0	6.9	85.7	7.2	147.8	6 NE	1008
8	157	48.0	6.5	80.2	9.3	151.2	6 NNE	1009
9	175	38.9	6.2	70.3	8.1	145.7	6 NE	1009
10	141	42.6	7.5	86.8	8.4	128.9	7 NNE	1008
11	135	32.3	7.5	56.8	10.2	104.4	7 NNE	1008
12	144	32.1	7.5	52.7	9.0	84.1	6 NNE	1007
13	155	28.8	7.1	46.5	10.5	68.5	6 NE	1007
14	131	35.0	7.6	63.0	7.5	61.1	6 NE	1006
15	125	37.9	8.2	67.4	8.1	66.9	5 NE	1006
16	180	40.3	4.9	76.2	7.5	83.5	6 E	1006
17	169	46.3	5.3	82.4	8.1	106.7	5 E	1006
18	166	50.1	5.3	78.4	5.7	131.2	4 ENE	1006
19	186	45.5	4.6	76.2	6.9	153.3	1 ENE	1007
20	187	39.3	4.9	77.6	9.3	164.8	4 NNE	1008
21	150	44.7	6.7	71.0	7.2	162.7	4 NNE	1008
22	125	34.2	7.0	63.7	8.1	149.4	3 NNE	1008
23	143	26.0	6.9	48.7	7.5	128.5	3 N	1008

		1979		08	14			
HOUR	WAVE	H	I	H	T	TIDE	WIND	PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL DIR	
0	113	28.0	8.0	43.2	9.3	103.7	3 N	1008
1	131	28.3	6.9	59.0	6.6	80.9	3 N	1008
2	92	31.2	9.2	57.1	10.8	65.1	0 -	1008
3	110	33.1	8.2	56.8	8.7	61.4	3 N	1008
4	100	32.4	8.2	46.9	8.4	66.9	3 N	1008
5	98	30.5	8.3	49.1	7.8	79.8	3 NNW	1008
6	105	27.5	8.0	41.0	7.8	102.1	3 N	1008
7	133	28.0	7.2	54.2	9.6	120.4	5 N	1008
8	178	30.7	6.1	55.3	6.6	133.6	6 N	1008
9	187	29.0	5.7	54.6	8.1	139.3	6 NNE	1008
10	155	27.7	6.6	44.7	9.6	134.5	5 NNE	1008
11	155	30.4	6.6	53.8	7.5	123.9	6 NNE	1007
12	161	27.4	6.6	60.8	10.5	109.0	6 NNE	1007
13	158	29.1	6.6	54.6	11.4	96.1	6 NNE	1006
14	144	29.4	7.2	45.8	10.5	86.9	6 NE	1006
15	153	29.7	6.7	63.4	8.1	86.0	6 NNE	1006
16	165	34.3	5.5	54.2	8.1	94.0	6 E	1006
17	178	40.9	4.9	61.9	6.0	107.8	6 ENE	1006
18	191	47.8	4.2	80.2	5.4	127.3	5 ENE	1006
19	146	49.2	6.4	101.4	12.0	145.7	3 NE	1007
20	143	46.0	6.9	74.7	9.3	159.3	3 NE	1008
21	131	44.2	7.3	59.0	10.8	164.6	3 NE	1008
22	138	41.9	7.0	73.2	9.3	156.3	4 NE	1008
23	107	42.0	8.8	67.7	13.5	142.1	5 N	1008

HOUR	WAVE NUMBER	1979		08 15		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	115	37.3	8.4	65.6	10.2	123.4	4	N	1009
1	113	37.3	9.1	61.5	9.3	101.2	5	N	1008
2	99	32.8	9.6	43.6	11.1	80.4	3	N	1008
3	88	44.7	10.2	69.6	9.9	66.9	4	NE	1008
4	97	36.4	9.1	45.8	9.3	61.8	4	NNE	1008
5	98	43.0	9.6	94.5	12.6	65.3	5	NNE	1008
6	136	41.1	8.1	74.0	13.5	78.6	6	NNE	1008
7	94	60.4	10.4	106.9	11.1	95.2	6	N	1008
8	91	72.6	12.1	117.6	13.2	110.1	7	N	1008
9	104	62.2	10.3	114.3	14.7	121.1	7	N	1008
10	106	80.2	11.4	128.5	11.4	131.2	6	N	1008
11	84	80.7	12.2	151.6	11.4	129.9	6	NNE	1008
12	85	69.8	11.9	103.6	12.6	121.4	6	N	1008
13	91	59.8	11.1	105.5	11.1	115.6	6	NNE	1008
14	107	57.5	9.6	93.8	13.2	108.3	6	NNE	1007
15	92	75.1	11.2	114.3	12.3	102.3	6	NNE	1007
16	96	69.3	10.9	107.3	11.7	105.5	6	ENE	1007
17	118	54.2	8.6	83.1	9.6	111.9	4	NE	1008
18	103	75.3	10.3	124.5	10.2	123.7	4	NNE	1008
19	125	67.6	8.0	121.9	10.2	138.1	3	NE	1008
20	113	75.0	9.0	123.0	10.8	149.7	4	NE	1009
21	87	95.6	11.3	148.7	10.5	158.2	4	NNE	1010
22	90	88.2	11.1	111.3	9.6	156.1	5	N	1010
23	67	104.2	12.2	131.5	12.9	150.3	5	N	1010

HOUR	WAVE NUMBER	1979		08 16		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	76	122.8	12.5	165.9	12.6	138.1	7	N	1010
1	69	108.9	11.5	153.4	13.2	116.8	5	N	1009
2	64	108.0	12.1	180.5	13.8	100.9	6	N	1009
3	72	83.7	11.5	129.3	10.2	81.8	6	N	1009
4	66	93.8	11.2	174.0	10.8	68.5	5	N	1009
5	80	87.0	10.6	148.7	12.0	59.6	5	N	1009
6	80	71.2	10.6	102.9	12.0	63.5	6	N	1010
7	64	81.8	12.1	133.7	11.7	71.5	4	N	1010
8	83	64.8	10.4	94.8	8.7	82.5	7	N	1010
9	105	69.9	10.5	106.9	12.0	98.2	6	N	1010
10							6	N	1010
11	80	96.2	12.3	178.7	12.0	121.8	7	N	1009
12	85	101.3	11.3	180.9	11.7	125.0	7	N	1008
13	93	84.0	10.8	133.3	12.0	127.1	7	N	1008
14	82	92.3	11.3	149.8	11.7	121.1	6	N	1008
15	86	72.8	10.9	119.8	12.6	118.6	6	N	1008
16	100	69.1	10.8	125.2	9.9	115.4	5	N	1007
17	103	73.4	9.8	113.9	14.4	114.9	6	NE	1007
18	99	89.3	10.7	143.6	12.6	119.8	4	NE	1008
19	86	94.2	10.7	137.0	11.4	129.0	1	SE	1008
20	64	112.9	12.3	163.7	12.6	139.1	3	NNE	1009
21	76	93.9	11.2	135.1	11.7	146.0	3	NNE	1009
22	88	84.2	11.0	127.1	10.8	150.8	3	N	1009
23	76	96.8	11.5	137.3	11.4	151.3	3	N	1010

HOUR	WAVE NUMBER	1979		08		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	78	89.1	11.2	122.3	11.7	146.9	5	N	1009
1	71	95.7	11.4	138.1	12.0	136.3	3	N	1009
2	75	78.8	10.7	108.4	10.8	116.8	3	NNW	1009
3	69	76.7	12.0	110.2	12.3	101.2	4	NNE	1008
4	74	67.3	11.7	102.2	11.7	83.4	3	NW	1008
5	68	75.4	11.8	125.2	10.8	67.8	3	NNW	1008
6	73	70.4	11.5	104.0	11.7	57.5	4	NNE	1008
7	62	75.9	11.8	112.1	11.1	55.8	4	NNE	1008
8	80	64.3	11.1	98.5	11.4	62.3	5	NNE	1008
9	85	58.3	10.8	88.3	11.7	74.2	3	NNE	1008
10	90	75.1	11.1	124.5	11.1	93.5	6	NE	1008
11							6	NE	1007
12	87	67.8	10.9	109.9	10.8	122.3	5	NE	1007
13							5	NE	1006
14							6	SW	1006
15							4	SW	1005
16							4	SSW	1005
17							5	S	1004
18							7	S	1004
19							6	SSE	1004
20							0	-	1005
21							0	-	1005
22							3	SW	1005
23							3	SW	1004

HOUR	WAVE NUMBER	1979		08		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0							0	-	1003
1							0	-	1003
2							0	-	1002
3							7	S	1002
4							3	S	1001
5							4	SSW	1001
6							3	SW	1001
7							8	S	1001
8							9	S	1001
9							3	S	1000
10							9	S	1000
11							11	S	1000
12							11	S	999
13							11	SSW	999
14							11	S	999
15							13	SSW	997
16							10	SSW	998
17							10	SSW	999
18							9	SSW	999
19							9	SSW	999
20							11	SW	1000
21							11	SSW	1000
22							9	SSW	1000
23							9	SW	1000

HOUR	WAVE NUMBER	19/9		08		19		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)				VEL	DIR	
0									12	SSW	1000
1									8	SSW	1000
2									6	SSW	1000
3									7	SSW	1001
4									9	SW	1001
5									5	WSW	1001
6									6	W	1002
7									5	SSW	1002
8									4	S	1003
9									3	S	1003
10									3	S	1003
11									7	S	1003
12									9	S	1003
13									11	S	1003
14									10	S	1003
15									8	SW	1003
16									9	SW	1003
17									12	SSW	1003
18									12	SSW	1003
19									11	SSW	1004
20									10	SSW	1005
21									10	S	1005
22									11	S	1005
23									10	SSW	1006

HOUR	WAVE NUMBER	19/9		08		20		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)				VEL	DIR	
0									9	SW	1006
1									8	SSW	1006
2									10	SSW	1006
3									9	SW	1006
4									5	WSW	1006
5									5	SSW	1007
6									4	S	1007
7									3	SSW	1007
8									3	NE	1008
9									3	NNE	1008
10									4	SE	1009
11									5	S	1009
12									4	S	1009
13									4	S	1009
14									3	S	1008
15									4	SSE	1009
16	137	68.2	6.8	111.3	7.2	158.4			3	SSE	1009
17	113	67.4	7.5	101.4	8.1	156.1			3	ESE	1010
18	105	74.3	7.8	112.1	7.8	147.8			0	-	1010
19	101	63.6	8.3	91.2	8.1	130.3			3	N	1011
20	101	60.4	7.7	91.2	7.2	115.8			2	E	1012
21	115	57.0	8.1	87.9	8.7	104.6			3	NNE	1012
22	110	66.1	7.9	113.2	6.6	102.8			4	N	1012
23	109	57.6	8.2	103.3	9.0	108.1			4	N	1012

		1979		08		21			
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	104	66.7	8.2	107.3	8.4	122.8	5	N	1012
1	117	69.5	7.9	118.7	8.7	140.9	6	NNE	1012
2	102	77.5	8.5	130.4	7.8	154.7	5	NNE	1013
3	94	94.3	8.7	180.2	8.4	160.7	4	NNE	1013
4	92	81.6	8.7	111.3	8.1	158.6	5	NNE	1013
5	95	75.2	8.8	104.4	7.2	142.8	5	NNE	1014
6	97	83.3	8.8	120.8	9.6	118.1	5	NNE	1014
7	99	78.7	8.9	129.3	7.8	85.3	5	NNE	1014
8	106	64.1	8.8	92.7	9.6	52.9	6	N	1015
9	115	63.2	8.8	93.0	9.6	29.7	6	N	1015
10	98	78.0	9.1	120.8	9.0	21.6	4	N	1015
11	81	79.6	9.7	108.4	9.0	30.1	3	N	1015
12	94	65.2	8.9	100.0	9.3	51.3	2	NW	1015
13	78	95.6	9.6	164.8	8.7	81.6	1	W	1015
14	69	93.5	11.0	116.5	10.2	108.5	2	SSW	1015
15	82	92.1	9.9	116.5	10.8	135.9	4	S	1014
16	72	89.5	10.8	123.4	11.4	152.2	4	SSW	1014
17	83	84.5	10.0	138.4	9.0	157.9	4	SW	1014
18	89	79.8	10.1	115.0	9.3	150.3	4	SSW	1013
19	97	66.2	9.0	119.0	10.8	135.9	3	SSW	1014
20	97	91.4	9.7	133.7	9.6	117.0	2	NW	1014
21	99	83.2	9.8	124.1	9.6	99.5	3	N	1015
22	94	81.5	10.0	127.4	10.5	89.7	4	N	1015
23	94	78.9	9.8	113.5	9.3	94.5	5	N	1014

		1979		08		22			
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	77	75.9	10.8	101.8	13.8	106.0	4	N	1014
1	75	90.4	10.0	120.5	9.9	126.0	0	-	1014
2	80	95.4	10.2	156.4	8.7	147.1	4	SW	1013
3	89	91.2	10.1	135.1	10.2	164.8	4	SW	1013
4	137	84.5	7.1	147.6	10.2	171.5	7	S	1013
5	146	89.5	5.9	167.4	9.0	160.4	9	SSW	1012
6	150	85.7	6.3	154.2	9.9	140.9	7	SSW	1012
7	140	92.4	6.5	149.4	10.8	109.9	10	SSW	1012
8	144	94.4	6.4	165.5	9.6	74.7	10	SW	1012
9							7	SW	1012
10	142	91.3	6.4	167.0	9.6	25.0	4	W	1012
11	133	79.6	7.1	132.6	12.9	24.2	3	E	1012
12	111	73.1	8.5	105.5	9.9	41.9	3	E	1012
13	96	78.2	9.2	112.8	12.0	69.7	2	S	1012
14	109	74.3	8.5	111.7	9.9	104.1	3	N	1012
15	104	69.6	8.7	98.1	10.8	134.9	3	W	1011
16							5	W	1012
17	113	77.4	8.3	113.9	10.5	169.7	4	SW	1012
18	108	73.4	8.4	117.6	8.7	164.8	4	W	1011
19	83	66.8	10.2	95.2	9.9	151.9	2	N	1012
20	103	61.5	9.0	108.4	9.6	131.0	0	-	1012
21	86	74.8	10.0	115.0	10.5	109.4	1	N	1012
22	88	82.9	10.0	123.8	10.8	91.7	0	-	1012
23	94	75.7	8.9	105.1	10.8	89.4	1	N	1012

HOUR	WAVE NUMBER	1979		08		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	93	73.7	9.4	129.6	11.1	96.1	3	NNE	1012
1	98	65.0	9.5	121.6	10.5	115.9	3	NNE	1012
2	110	55.7	8.9	83.1	8.7	137.5	3	N	1012
3	73	90.1	10.9	138.4	13.5	158.9	3	NNW	1012
4	92	76.7	9.7	112.8	10.8	174.2	3	N	1012
5	88	68.2	10.3	112.1	9.0	173.6	4	NNW	1012
6	82	67.4	10.3	110.6	12.0	160.9	3	N	1012
7	73	68.4	11.0	109.9	10.5	133.1	3	N	1012
8	84	72.9	10.1	124.5	11.1	96.1	2	N	1012
9	71	83.1	11.1	105.8	13.8	60.2	4	SE	1012
10	72	101.1	12.3	170.5	12.9	35.8	4	SSE	1012
11	81	71.1	10.5	114.3	11.7	27.6	4	S	1012
12	70	90.3	11.2	132.6	11.1	35.4	4	S	1011
13	81	77.1	11.4	105.1	13.5	57.5	4	S	1011
14	66	104.4	12.1	154.5	12.6	86.6	5	S	1011
15	112	75.4	9.4	111.3	12.0	120.2	6	W	1010
16	101	82.9	10.6	124.1	12.3	153.3	4	WSW	1010
17	113	74.0	9.7	131.1	12.3	169.9	5	WSW	1009
18	83	82.4	11.6	115.7	11.1	175.6	3	NW	1009
19	75	94.7	11.8	143.6	14.1	165.3	0	-	1010
20	78	101.3	12.1	136.6	11.1	142.3	0	-	1010
21	99	63.4	10.0	116.8	11.7	119.8	0	-	1010
22	64	98.9	12.5	126.5	12.6	98.9	3	N	1010
23	62	92.3	12.8	141.4	12.9	83.4	0	-	1010

HOUR	WAVE NUMBER	1979		08		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	61	110.5	12.5	158.9	11.4	88.5	0	-	1010
1	69	101.9	12.1	157.1	12.3	99.8	0	-	1010
2	55	130.2	12.1	174.0	11.7	123.4	0	-	1010
3	60	112.7	12.7	136.2	12.3	146.9	3	NNW	1010
4	60	111.6	12.8	164.4	12.0	165.7	3	NNE	1010
5	89	85.5	11.9	129.3	13.8	175.2	6	NNE	1010
6	70	97.3	13.6	159.7	12.9	169.6	5	NNE	1012
7	72	89.3	13.0	134.0	12.3	150.3	5	NNE	1012
8	66	108.8	13.4	160.8	14.7	122.7	5	N	1012
9	66	92.6	12.4	146.9	12.9	84.8	4	N	1012
10	62	123.8	12.6	153.1	12.0	57.2	3	S	1012
11	63	113.2	13.4	149.0	12.0	41.6	3	SSW	1012
12	55	109.9	14.4	158.9	15.3	36.8	4	SSW	1012
13	62	86.6	13.1	111.3	12.9	49.2	5	SW	1011
14	75	79.0	12.6	127.1	12.6	74.2	5	SW	1010
15	74	92.1	12.9	139.2	12.9	106.6	4	SW	1010
16	111	57.5	9.5	99.2	8.7	137.7	5	SSW	1010
17	102	70.9	10.4	138.4	14.4	160.9	5	S	1010
18	97	84.9	10.9	156.0	11.7	170.6	5	SW	1011
19	86	112.8	11.8	182.7	12.9	162.0	6	SSW	1011
20	85	105.3	12.3	189.5	12.3	145.7	0	-	1012
21	77	123.1	12.7	231.1	12.3	124.8	0	-	1012
22	51	168.3	13.6	217.5	14.7	100.0	1	WSW	1011
23	51	183.1	13.4	290.0	12.9	76.8	3	N	1011

		1979		08 25					
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	58	141.0	12.6	199.2	13.2	73.5	3	N	1010
1	64	137.9	13.0	202.1	13.8	83.4	4	N	1010
2	73	97.0	11.6	171.4	11.4	103.5	5	N	1010
3	89	89.9	10.9	141.4	12.6	131.0	5	NNE	1010
4	80	79.3	11.4	131.8	12.3	154.5	4	NNE	1010
5	76	81.0	12.3	138.1	10.8	170.3	4	NNE	1010
6	63	86.8	12.8	116.1	12.6	173.1	3	N	1010
7	63	99.7	12.0	132.2	12.6	162.5	5	N	1010
8	77	88.1	11.6	144.7	11.1	138.4	5	NNE	1011
9	91	66.7	10.7	126.0	10.8	106.0	4	NNE	1011
10	66	101.7	12.5	141.4	12.3	75.9	4	N	1011
11	86	66.5	10.7	102.2	12.0	52.0	3	SE	1011
12	80	78.9	11.2	141.0	10.2	38.9	1	SW	1011
13	73	76.6	10.9	108.4	11.1	46.7	0	-	1011
14	94	57.6	10.2	98.5	11.7	66.9	5	NNE	1011
15	135	37.9	7.7	69.6	8.4	97.9	5	N	1011
16	96	46.9	10.2	62.5	11.4	128.5	4	N	1012
17	71	72.2	11.4	104.4	12.0	155.8	0	-	1011
18	75	69.3	10.8	94.5	10.8	169.2	4	WSW	1010
19	99	69.5	11.0	141.7	11.7	169.7	4	WSW	1010
20	84	75.8	10.5	119.4	10.8	154.7	4	WSW	1010
21	96	71.3	10.0	126.3	10.2	131.5	5	SW	1010
22	102	73.6	9.2	136.6	9.6	105.7	5	S	1010
23	75	100.1	10.6	158.9	10.5	81.2	0	-	1010

		1979		08 26					
HOUR	WAVE	H	I	H	T	TIDE	WIND		PRES
	NUMBER	(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	99	65.3	9.8	98.9	10.5	69.7	4	NNW	1010
1	93	60.1	10.0	91.2	10.5	74.5	4	N	1009
2	88	62.9	9.7	113.2	10.2	88.5	4	N	1009
3	95	64.7	10.1	112.1	9.3	114.2	6	N	1009
4	119	48.7	9.1	78.7	10.5	138.8	5	N	1009
5	126	43.3	8.2	74.7	9.6	160.2	5	N	1010
6	118	41.3	7.7	65.6	7.5	170.5	4	N	1009
7	117	42.4	8.7	80.6	9.6	167.8	4	N	1009
8	110	39.1	8.5	60.8	10.8	151.3	3	N	1009
9	99	45.4	9.0	70.7	9.3	126.6	1	W	1010
10	108	42.6	9.0	79.5	10.5	93.5	4	SSW	1009
11	185	59.8	4.8	137.7	9.3	65.5	10	SSW	1008
12	190	65.2	4.0	103.3	3.6	47.3	10	SSW	1008
13	152	72.4	6.0	130.0	11.4	50.3	9	S	1007
14	158	79.1	5.1	123.4	3.3	64.3	9	SSW	1007
15	176	74.2	4.1	110.6	3.9	89.9	9	SSW	1006
16							8	S	1006
17							8	SW	1006
18	195	68.0	3.8	110.2	5.1	167.6	9	SSW	1007
19	181	76.1	4.1	108.0	3.0	172.8	9	SW	1008
20	156	91.7	4.5	143.2	3.9	166.2	10	SW	1008
21	168	89.7	4.5	141.7	5.4	145.7	8	SSW	1008
22	159	88.1	4.7	141.7	4.5	116.3	9	SW	1008
23	158	93.9	4.5	143.2	4.2	92.4	9	SW	1008

		1979		08	27				
HOUR	WAVE NUMBER	H	I	H	T	TIDE	WIND		PRES
		(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	166	93.3	4.5	130.7	6.6	72.6	10	SW	1008
1	169	92.5	4.1	145.0	5.7	68.7	11	SW	1007
2	164	96.3	4.8	145.4	4.2	77.7	10	SSW	1007
3	165	101.2	4.2	142.1	4.2	100.2	11	SW	1007
4	159	94.7	4.4	134.0	4.2	122.7	11	SW	1006
5	162	107.2	4.3	169.6	4.5	145.8	12	SW	1006
6	165	100.3	4.3	136.6	4.8	164.1	13		1006
7	171	93.0	4.1	143.9	5.1	-55.4	11	SW	1006
8	172	98.0	4.2	160.4	3.9	-55.4	11	SW	1006
9	159	108.3	4.4	194.8	3.9	-55.4	10	SW	1006
10	164	114.1	4.3	177.2	3.3	-55.4	11	SW	1006
11							11	SW	1006
12	169	104.9	4.4	178.0	4.8	65.7	12	SW	1005
13	179	105.2	4.2	214.6	4.5	59.1	13	SW	1005
14	159	122.7	4.5	187.5	5.1	65.7	13	SW	1004
15	164	124.0	4.5	193.7	4.2	86.4	13	SW	1004
16	157	118.9	4.9	180.9	4.5	111.3	12	SW	1004
17	192	68.3	5.3	130.0	35.1	140.5	11	SSW	1004
18	154	129.6	4.8	200.0	4.8	-55.4	14	SSW	1003
19	149	125.3	5.1	169.9	4.8	-55.4	12	SSW	1004
20	147	134.7	5.1	245.7	5.4	-55.4	15	SSW	1004
21	145	138.9	5.0	201.4	5.1	-55.4	12	SSW	1004
22	137	140.8	5.4	201.8	5.4	-55.4	11	S	1003
23	123	162.0	5.8	265.1	6.0	-55.4	9	S	1003

		1979		08	28				
HOUR	WAVE NUMBER	H	I	H	T	TIDE	WIND		PRES
		(1/3)	(1/3)	(MAX)	(MAX)		VEL	DIR	
0	126	149.7	5.8	245.7	5.4	-55.4	10	S	1002
1	121	153.2	6.2	333.6	6.0	-55.4	10	S	1002
2	117	163.1	6.3	255.6	6.3	-55.4	10	SSW	1001
3	117	179.9	6.6	262.6	6.0	-55.4	10	SW	1001
4	121	165.8	6.4	279.8	7.2	-55.4	10	SW	1002
5	111	149.3	6.7	219.7	7.5	-55.4	4	WSW	1003
6	113	152.5	6.9	236.2	9.0	-55.4	0	-	1004
7	112	120.8	6.8	189.0	6.9	-55.4	0	-	1004
8	119	115.2	6.6	215.0	6.3	-55.4	0	-	1005
9	118	108.1	6.5	180.2	9.0	-55.4	4	NNE	1006
10	109	104.1	6.8	180.5	8.1	-55.4	4	NE	1006
11	98	113.1	7.4	166.6	7.5	104.4	4	ENE	1006
12	110	100.3	7.2	149.0	7.2	85.1	4	SE	1006
13	122	82.2	6.4	108.4	7.2	73.5	3	S	1006
14	138	62.9	6.2	90.1	6.9	73.5	4	SW	1006
15	140	58.4	6.1	106.2	8.1	85.7	3	SW	1006
16	126	57.3	6.6	90.5	4.5	106.4	5	SE	1007
17	152	50.4	6.0	89.7	9.3	131.9	6	NE	1008
18	150	51.5	6.7	78.7	6.3	150.4	6	NNE	1009
19	158	41.3	6.2	75.8	9.0	164.4	6	N	1009
20	144	44.4	7.0	85.5	9.6	164.1	6	N	1010
21	154	40.8	6.3	69.9	8.1	155.8	7	N	1010
22	172	36.2	5.8	67.7	7.5	135.8	7	N	1011
23	151	40.7	6.8	61.9	7.5	109.0	6	N	1011

HOUR	WAVE NUMBER	1979		08 29		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	150	34.8	6.8	55.7	7.8	84.6	7	N	1011
1	171	31.6	6.4	61.5	7.2	67.8	6	N	1011
2	165	31.0	6.5	59.0	8.1	63.0	7	N	1012
3	172	28.0	6.4	53.5	7.8	66.4	7	N	1012
4	165	25.0	6.1	49.1	8.4	79.5	5	N	1012
5	154	30.2	6.6	50.5	6.9	98.4	5	N	1013
6	142	32.2	6.7	57.1	6.6	120.2	5	N	1014
7	160	27.9	6.6	46.1	8.4	134.2	5	N	1014
8	185	25.7	5.3	43.2	10.2	141.1	6	N	1014
9	191	30.2	5.4	52.7	5.7	141.4	7	NNE	1014
10	195	25.6	5.2	46.1	9.6	131.5	6	NE	1015
11	162	24.0	5.9	41.7	8.7	112.7	6	NNE	1014
12	198	20.9	4.8	39.6	5.7	96.3	5	N	1014
13	202	22.9	4.5	36.3	6.3	81.2	5	NE	1014
14	186	22.7	4.8	37.4	5.1	76.3	4	NE	1014
15	187	26.6	4.5	40.6	7.8	81.2	5	NE	1014
16	186	31.2	4.6	53.1	5.4	95.8	4	NE	1014
17	198	31.4	4.1	44.7	2.1	115.2	5	NNE	1014
18	211	34.5	4.2	53.8	5.4	136.1	3	E	1014
19	196	36.2	4.4	55.3	9.6	150.8	4	ENE	1015
20	198	35.4	4.6	64.5	7.8	156.8	3	NE	1015
21	184	31.4	4.7	51.3	6.3	152.8	5	NE	1015
22	211	23.9	4.5	39.9	5.7	139.5	6	NNE	1015
23	191	24.8	5.4	51.3	6.0	118.9	6	NNE	1015

HOUR	WAVE NUMBER	1979		08 30		TIDE	WIND		PRES
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	
0	185	25.0	5.7	46.9	8.4	96.8	6	N	1015
1	146	16.5	7.5	41.4	8.1	75.9	5	N	1015
2	191	13.3	5.6	24.9	7.2	61.6	6	NNE	1015
3	161	18.1	7.1	31.5	14.1	56.6	6	NNE	1015
4	168	16.4	6.8	34.8	8.1	62.3	5	NNE	1015
5	126	15.9	7.4	35.2	7.5	75.6	5	N	1016
6	198	19.5	5.4	50.2	4.8	93.3	6	N	1017
7	193	20.5	5.6	44.7	8.4	109.6	6	NNE	1017
8	208	21.5	5.2	41.4	10.2	121.6	6	NNE	1017
9	179	21.3	5.7	29.3	3.9	130.4	6	NNE	1017
10	177	28.1	6.1	62.6	9.3	131.9	5	N	1018
11	138	29.5	7.6	57.1	8.7	124.1	5	NNE	1018
12	150	25.0	7.0	39.9	9.3	113.1	5	N	1017
13	153	28.2	7.1	44.3	9.9	105.3	5	N	1017
14	169	26.4	6.3	42.8	8.1	95.6	5	N	1016
15	177	23.0	5.7	39.2	10.2	94.7	5	NNE	1016
16	199	20.4	4.9	42.1	6.9	102.8	6	NNE	1016
17	172	21.1	5.9	39.2	6.9	111.9	5	NNE	1016
18	180	23.7	5.8	59.7	4.5	125.8	5	NNE	1016
19	147	24.6	6.4	39.9	7.5	138.9	5	NNE	1017
20	138	24.1	7.1	44.3	7.8	150.4	5	NNE	1017
21	101	31.8	9.8	51.6	7.2	152.8	4	NNE	1018
22	153	21.5	6.7	32.6	8.7	148.3	5	NNE	1018
23	168	21.0	6.4	35.9	13.8	135.8	5	NNE	1018

HOUR	WAVE NUMBER	19/9		08	31	TIDE	WIND		
		H (1/3)	I (1/3)	H (MAX)	T (MAX)		VEL	DIR	PRES
0	189	16.1	5.3	26.0	3.6	116.8	5	NNE	1018
1	153	18.7	7.3	33.0	12.6	95.6	5	NNE	1018
2	153	14.2	7.5	24.5	12.0	75.2	6	NNE	1017
3	169	12.7	6.7	26.0	12.0	61.6	5	NNE	1017
4	161	12.9	6.7	31.5	14.7	57.3	5	NNE	1017
5	230	11.2	4.2	26.0	10.2	58.9	6	NNE	1017
6	174	12.8	6.3	25.6	12.9	68.5	6	NNE	1017
7	177	18.8	6.1	34.4	6.9	83.4	6	NNE	1017
8	253	22.6	3.2	39.9	7.8	98.2	7	NNE	1017
9	250	21.2	3.3	44.7	9.3	111.3	8	NNE	1018
10	221	23.9	4.4	45.8	8.1	120.5	7	NNE	1018
11	196	26.6	4.9	42.5	7.2	126.6	7	NNE	1017
12	204	29.3	4.5	52.4	8.1	124.8	6	NNE	1017
13	204	28.8	4.4	46.9	6.0	120.9	6	NNE	1017
14	190	26.3	5.1	45.4	11.1	114.5	6	NE	1017
15	205	37.5	3.6	68.8	6.9	111.7	6	ENE	1017
16	209	37.0	3.7	58.6	2.4	109.9	6	ENE	1017
17	192	38.2	3.8	59.3	2.7	112.7	5	ENE	1017
18	213	31.8	4.1	50.9	6.6	118.2	5	NE	1017
19	167	39.3	5.6	55.7	4.2	125.7	4	ENE	1017
20	160	35.5	5.5	67.4	7.5	137.2	4	NE	1018
21	165	41.6	5.4	71.4	8.4	144.3	5	NE	1018
22	154	36.7	5.9	59.0	10.2	145.0	4	NNE	1018
23	137	39.2	6.8	65.2	7.2	142.7	5	NNE	1018

夏期(1979年6月～1979年8月)

風の特徴を見ると次のようになる。6月は他の月に比べて最も南寄りの風の頻度が高く、平均風速も南寄りの風が卓越している。7月と8月は、海陸風が発達するために、北寄りの風と南寄りの風の頻度がほぼ同じとなっており、平均風速分布は6 m/s程度で、ほぼ様な方向分布を形成している。

波高分布について調べると、6月の波浪は平均波高として高く80 cmとなっているが、2 mを越す高い波はなくそしてうねりも少ない。7月から8月へと秋に近づくにつれて、沖合からのうねりが現われ、とくに8月はその傾向が目立っている。風波成分について見ると、日中は南寄りの風が吹くために約1 m程度の波高の波となるが、夕方には北寄りの風になるので、風波成分はほとんど減衰してしまう。このため、この時期には朝風夕風が見られることになる。

この季節は多くの台風が発生しはじめるが、日本への台風の接近がなければ、一年のうちで最も大荒れの少ない海となる。この季節の波浪の統計的特性は、台風の接近によって変るが、今年はそれがほとんどなかった。

表1 1カ月間の有義波の波高と周期の頻度分布

	1979 06															
T (SEC) H (CM)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL	
0- 30	0	0	4	4	22	9	0	0	0	0	0	0	0	0	39	
30- 60	0	0	42	61	56	33	8	0	0	0	0	0	0	0	200	
60- 90	0	6	85	42	13	18	39	9	0	0	0	0	0	0	212	
90-120	0	0	58	46	17	5	3	1	0	0	0	0	0	0	130	
120-150	0	0	3	22	6	3	0	0	0	0	0	0	0	0	34	
150-180	0	0	0	4	4	4	0	0	0	0	0	0	0	0	12	
180-210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
210-240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
240-270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
270-300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
300-330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
330-360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
360-390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
390-420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
420-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	0	6	192	179	118	72	50	10	0	0	0	0	0	0	627	

表1 1カ月間の有義波の波高と周期の頻度分布

	19/9 07														
T (SEC) H (CM)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL
0- 30	0	0	10	12	20	31	2	0	0	0	0	0	0	0	75
30- 60	0	1	33	25	67	128	87	11	1	0	0	0	0	0	353
60- 90	0	0	17	30	33	31	15	10	14	4	1	0	0	0	155
90-120	0	0	4	16	13	6	1	6	3	5	2	0	0	0	56
120-150	0	0	0	11	7	3	1	3	3	0	0	0	0	0	28
150-180	0	0	0	2	8	0	0	1	1	0	0	0	0	0	12
180-210	0	0	0	1	2	0	0	0	0	0	0	0	0	0	3
210-240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240-270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
270-300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300-330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
330-360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
360-390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
390-420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
420-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	1	64	97	150	199	106	31	22	9	3	0	0	0	682

	19/9 08														
T (SEC) H (CM)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL
0- 30	0	2	6	12	17	25	3	0	0	0	0	0	0	0	65
30- 60	0	0	8	20	30	52	56	19	12	2	0	0	0	0	199
60- 90	0	0	7	26	29	29	25	32	30	34	13	4	0	0	229
90-120	0	0	13	32	20	8	0	1	6	18	16	8	2	0	184
120-150	0	0	0	13	4	2	0	0	0	0	1	5	0	0	25
150-180	0	0	0	0	4	2	0	0	0	0	0	0	1	0	7
180-210	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
210-240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240-270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
270-300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300-330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
330-360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
360-390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
390-420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
420-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	2	34	103	104	118	84	52	48	114	30	18	3	0	710

1979 06

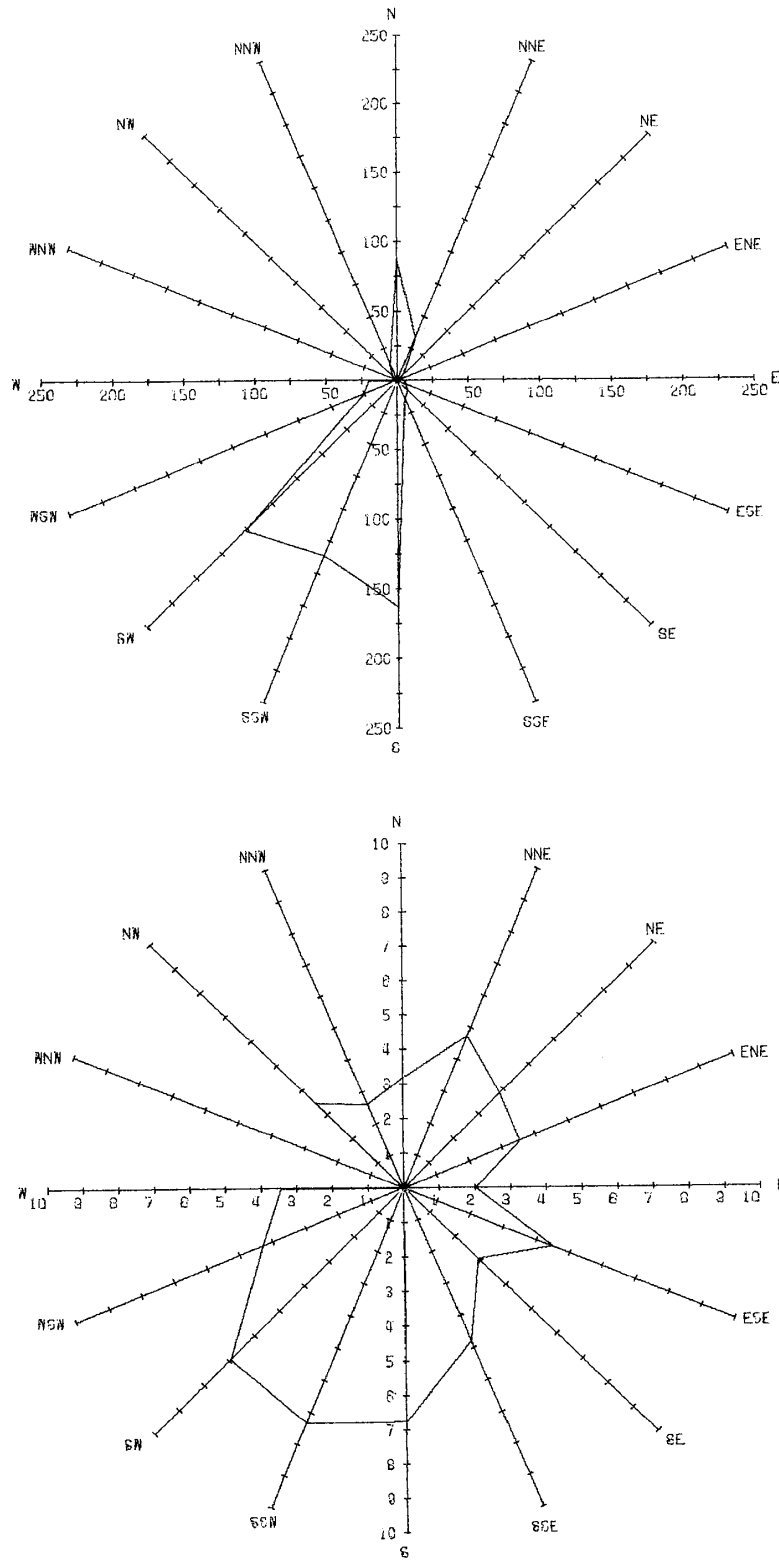


図3 1カ月間の風向・風速分布

上図は風向の頻度分布で、下図は風速の方向分布を示す

1979 07

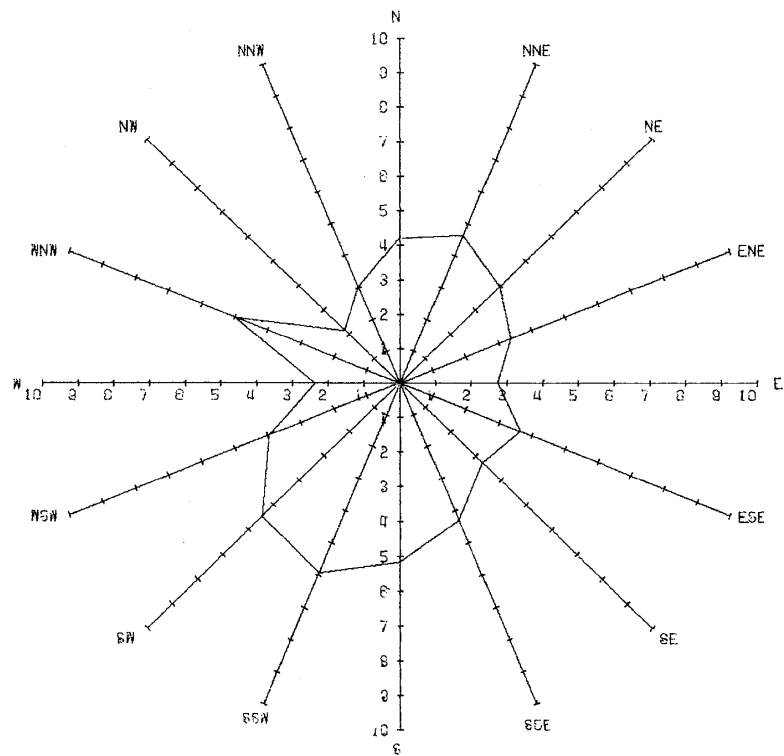
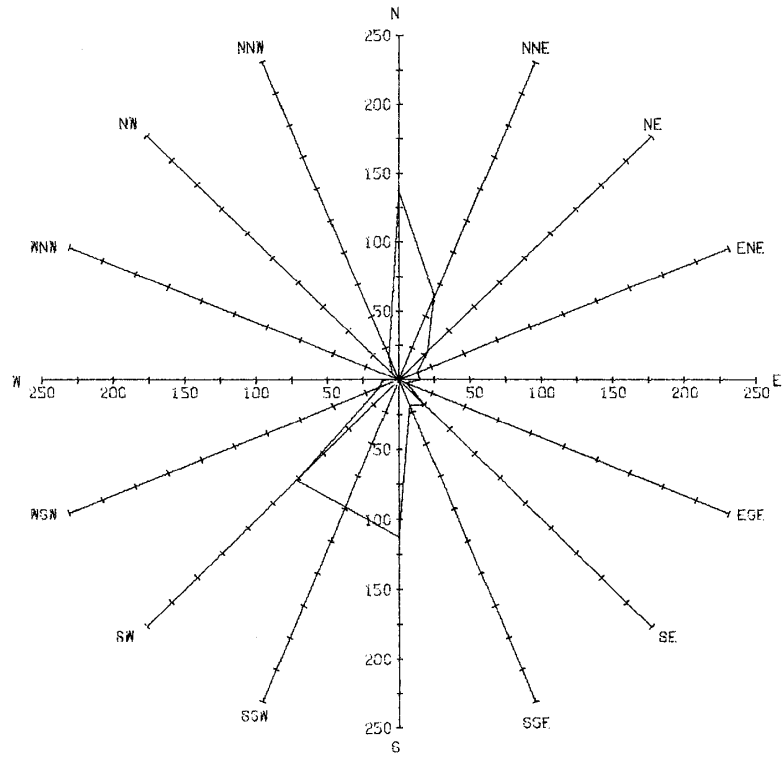


図3 1カ月間の風向・風速分布

上図は風向の頻度分布で、下図は風速の方向分布を示す

1979 08

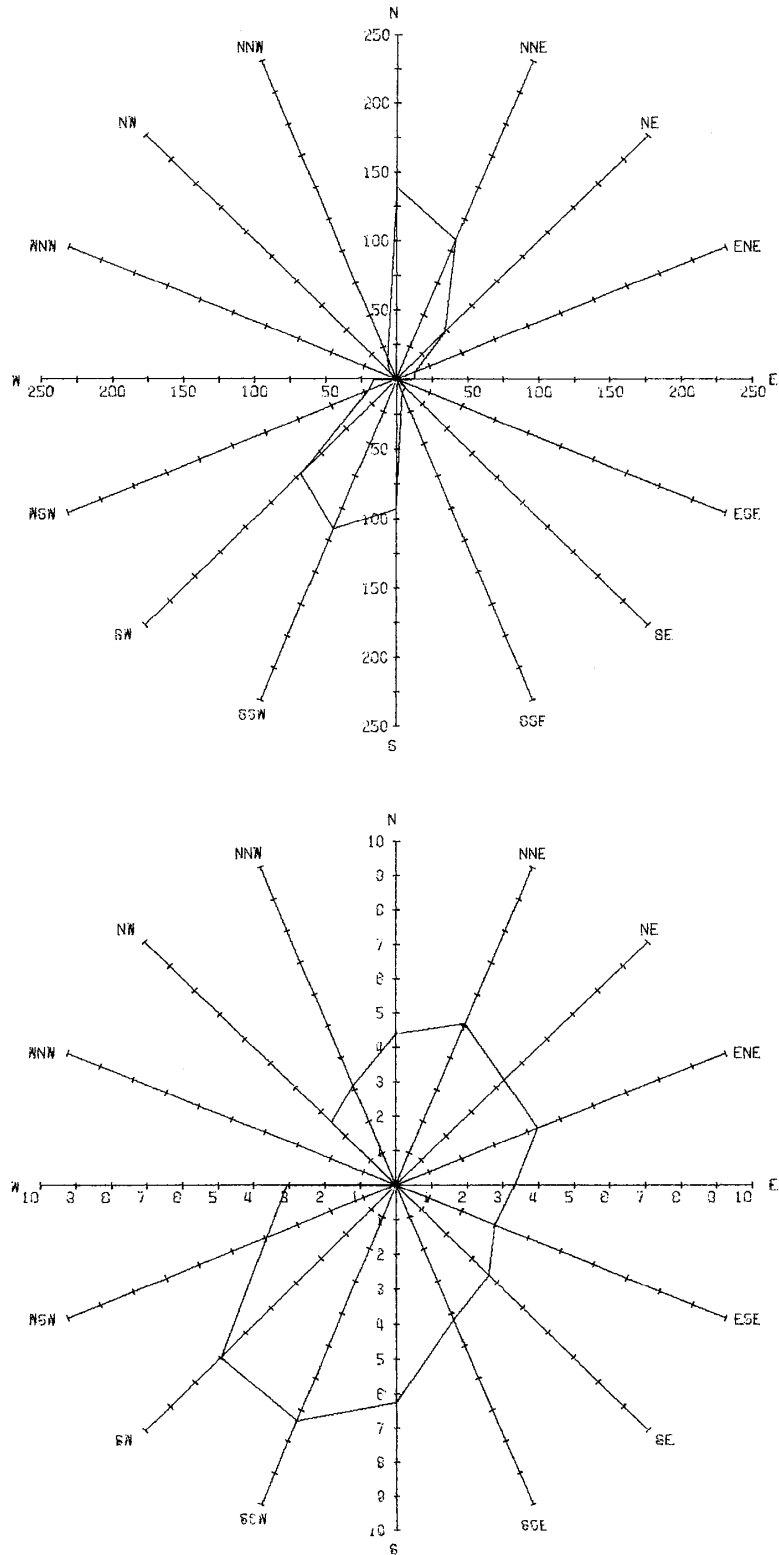


図3 1カ月間の風向・風速分布

上図は風向の頻度分布で、下図は風速の方向分布を示す

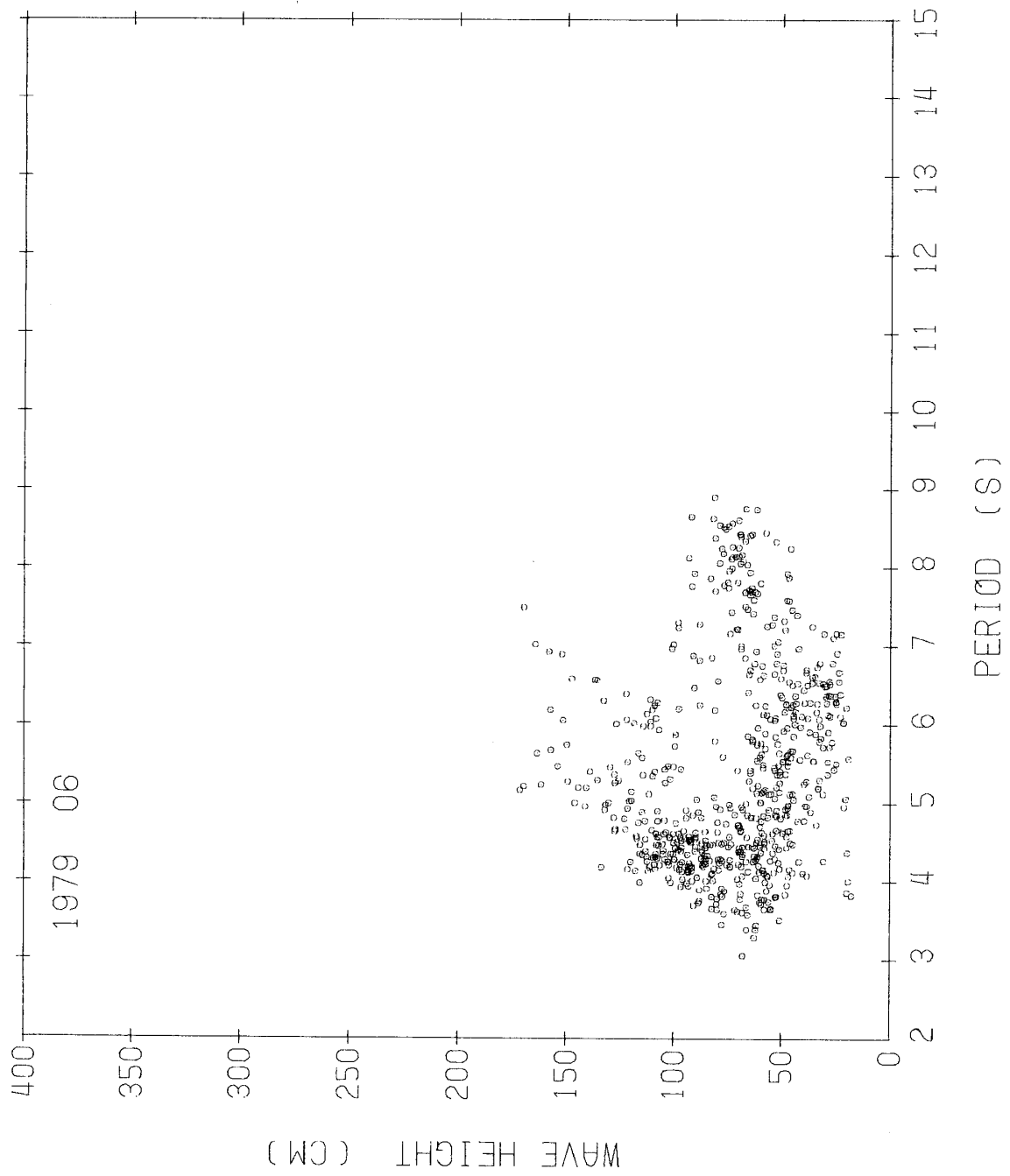


図 4 1ヵ月間の有義波の波高と周期の頻度分布

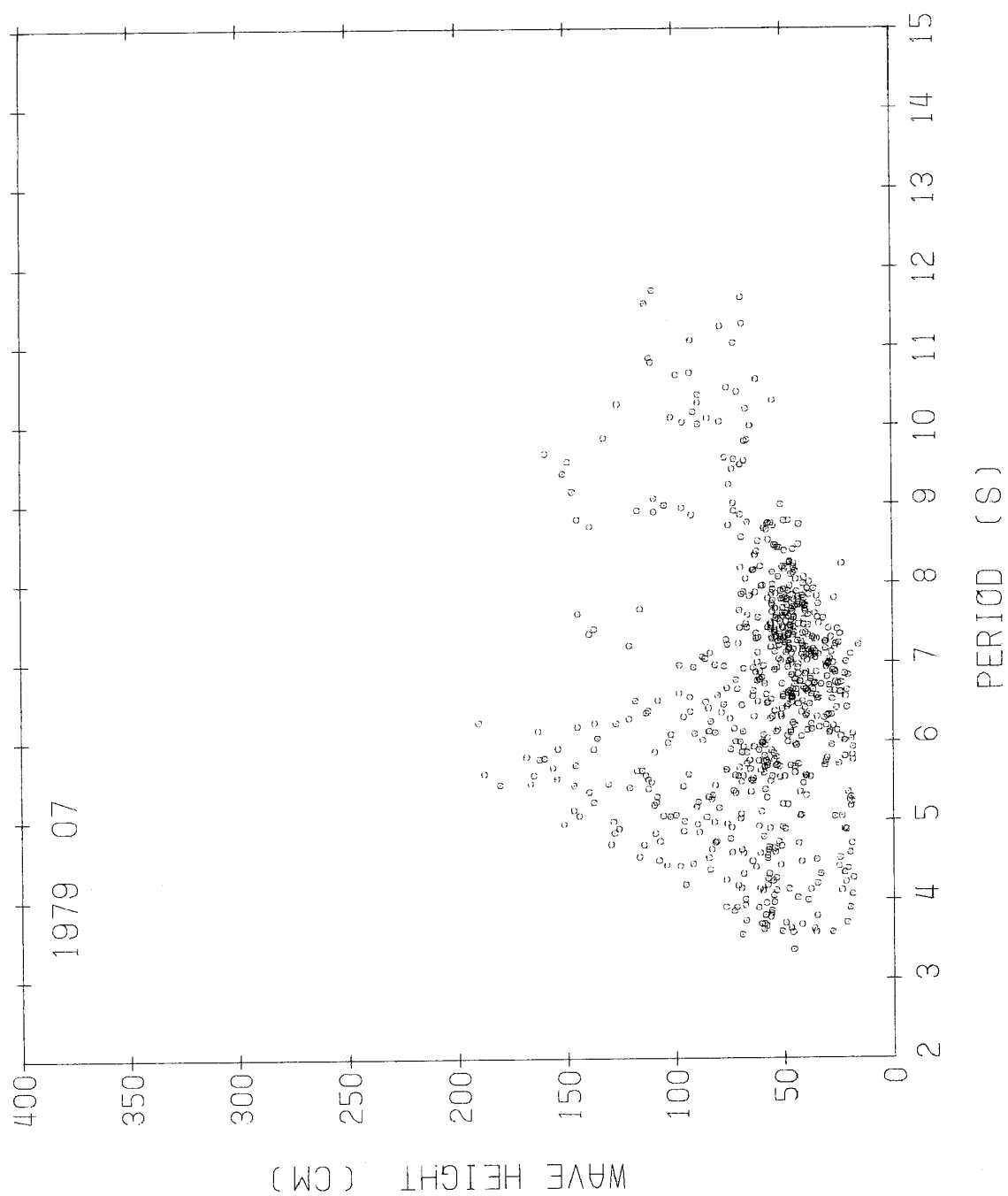


図4 1ヵ月間の有義波の波高と周期の頻度分布

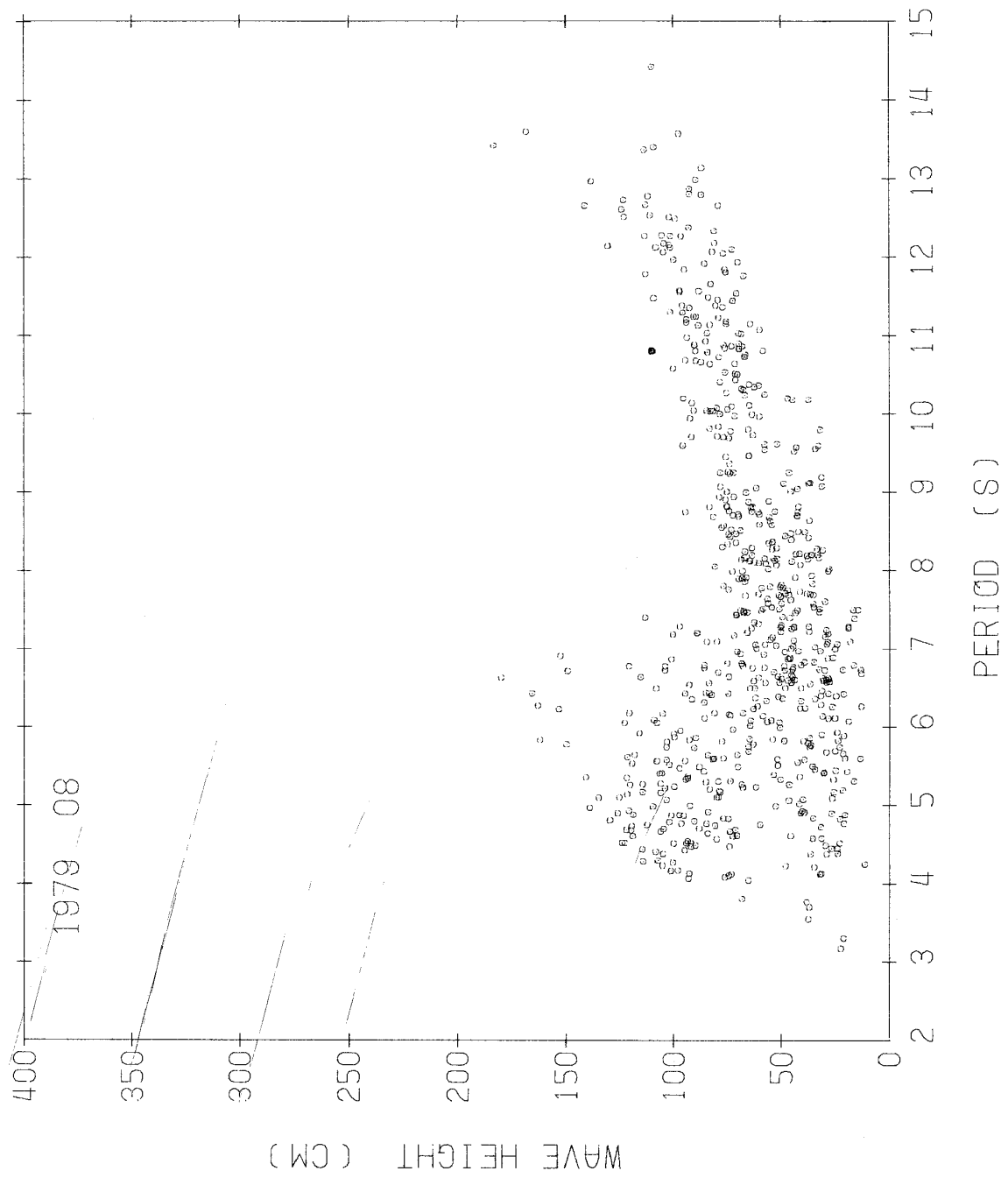


図 4 1 カ月間の有義波の波高と周期の頻度分布

夏期の代表的な風波の発達について

6月26日3時から6月27日22時までの毎時のパワー・スペクトルを求め、風波の発達を調べた。

南方海上に高気圧があるために、低気圧は天気図に示されているように発達する。このために強い南風が吹く。この場合、特徴的なことは、この期間の後半に10m/s以上の、ほぼ真南の風が吹くことである。このような風が吹くと、スペクトル分布及び有義波の特性から分かるように、海は最も荒れることになる。有義波の波高と周期は、6月27日19時頃にそれぞれ約1.7mと約5.5秒となった。南風が10m/s以上吹く時、最も海は注意を要する。このことは、南風の場合、最も長い吹送距離となることに対応している。

