

浮遊式海洋構造物の実海域実験

海象、動揺、構造応答の定時計測資料

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At-Sea Experiment of a Floating Offshore Structure
 Results of the Observed Sea States , Motion and Structural Responses
 by
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Abstract

At-Sea Experiment of the Floating Offshore Structure 'POSEIDON'
 brought many kind of useful results during 1986 and 1990.

This paper describes some examples of the observed results on sea states, on motions and on structure responses.

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1. はじめに

POSEIDONの実海域実験は、多くの有益な観測データをもたらした。本資料では、1996年7月～1990年6月の間に、実海域実験で取得されたデータの内から、海象、動揺、構造応答に関して、定時計測で得られた結果の代表例を掲載する。

2. 海象、動揺、構造応答の定時計測資料

(1) 統計量の経時変化図について

定時計測データの内から、海象、動揺、構造歪の代表例を選び、それぞれの統計量の1カ月毎の経時変化を示す。但し、海象の内、流れについては1時間毎の経時変化として示す。

左側の頁は海象(風、波浪、流れ)の経時変化である。

風は定時計測時間中の平均風速と、16方位で表現した風向について示す。風向は風の吹いてくる方向を表す。

波浪は定時計測時間中の有義波高と有義波周期を示している。

流れのデータは、2分毎に計測した平均流向、流速を、毎時間、定時計測開始時間に相当する約34分間分取り出し平均した値で表す事にする。こうして求めた平均流速、流向を1時間毎の変化として結果をベクトル図で示す。ベクトル線の方向は流れが流れて行く方向を表す。

右側の頁は動揺、構造応答の経時変化を表している。

動揺は、①加速度、②加速度をフーリエ解析による2回積分で求めた直線運動、③ジャイロで計測した回転運動の順に示している。それぞれの値は定時計測の時系列データから求めた標準偏差である。

構造応答は、カラム曲げ歪(No. 1)、ブレース軸歪(No. 9)、上部構造Iガーダ曲げ歪(No. 11)の3点を示す。これらも時系列データから求めた標準偏差である。

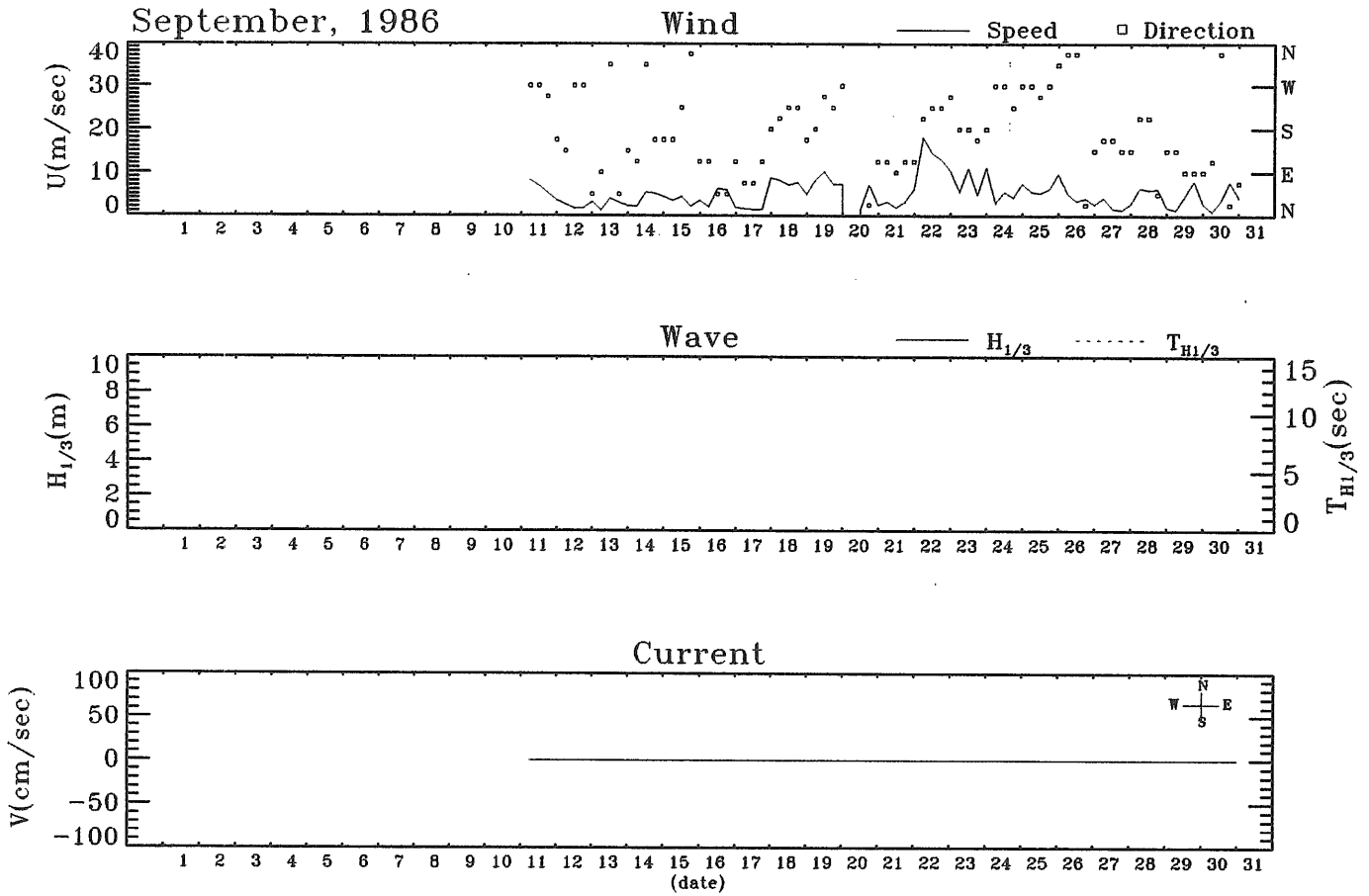
(2) 欠測および不良データの扱い

計測器の故障等によりデータ収録が出来なかったり、データ中にノイズが混入したりして解析結果の精度が充分でないと判断されるデータは除外した。このような、欠測および不良データについては値を0にして表示している。経時変化図で、連続性がなく急峻に0に変化するデータは欠測または不良データである。

3. おわりに

実質4年間の実海域実験を通して得られた定時計測データから、その代表例を定時計測毎の統計値として時系列図にして示した。これらの図から、季節毎の海象、各種応答の変化の様子や、それぞれの相関の様子が見て取れる。計測器の故障、計測システムの変更作業などによる欠測以外に、経時変化に連続性がないと判断したデータは人為的に省いている。これらの原因の多くは、スパイク状ノイズや温度影響などによるドリフトが原因である。これらを除いた解析も可能ではあるが、データ数が膨大である事、不良データを補うだけのデータが他に得られている事などから、今回は行っていない。本時系列図で示されたデータは数値化され、広く利用できるようなフロッピーディスクに納められている。希望者には、これらのデータを提供する事とした。詳細は付録に述べる。

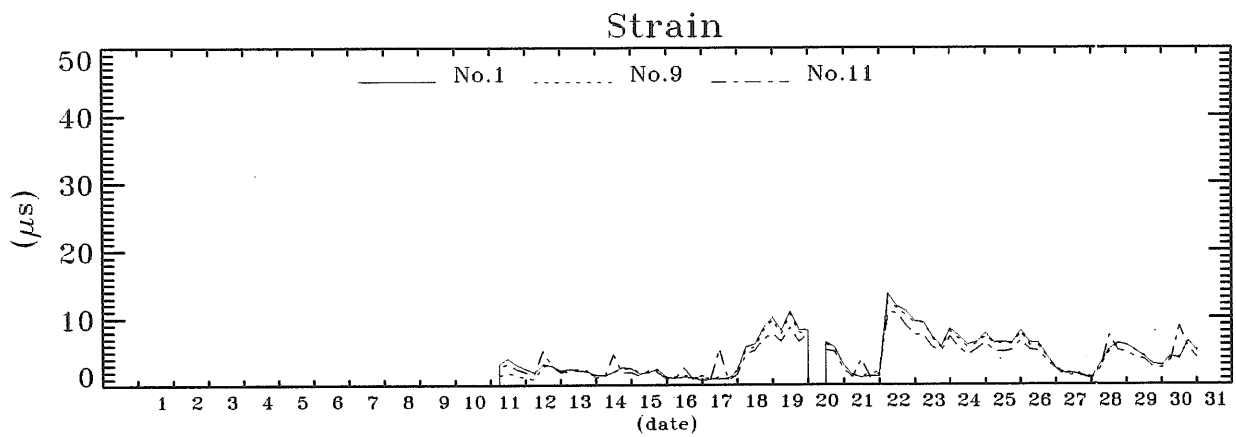
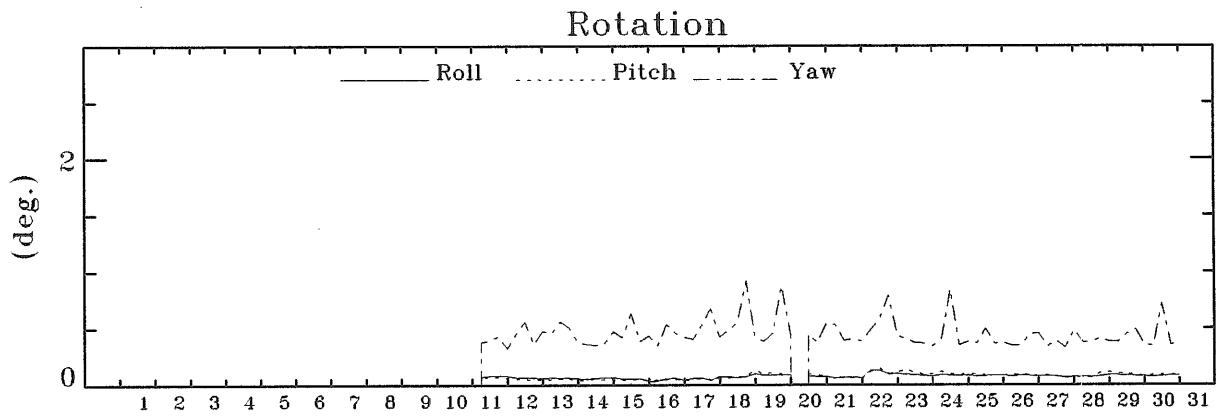
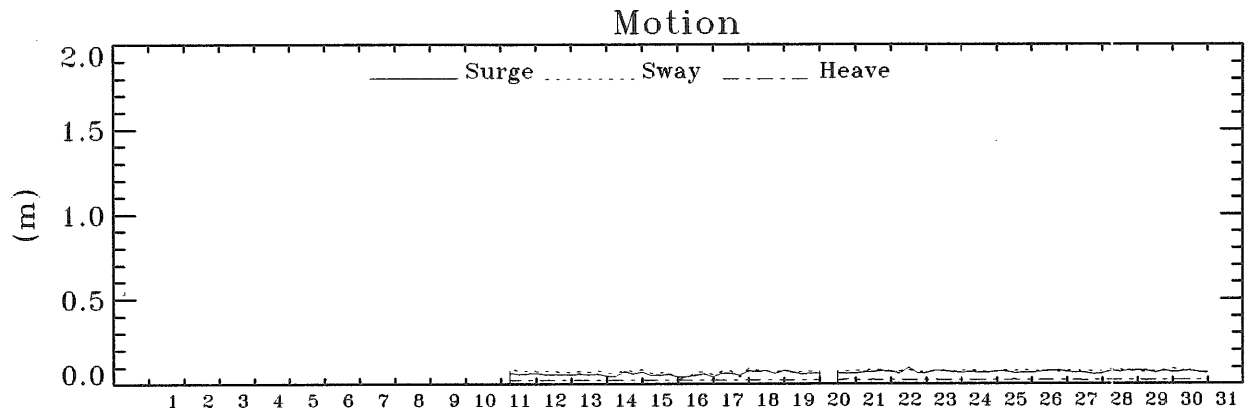
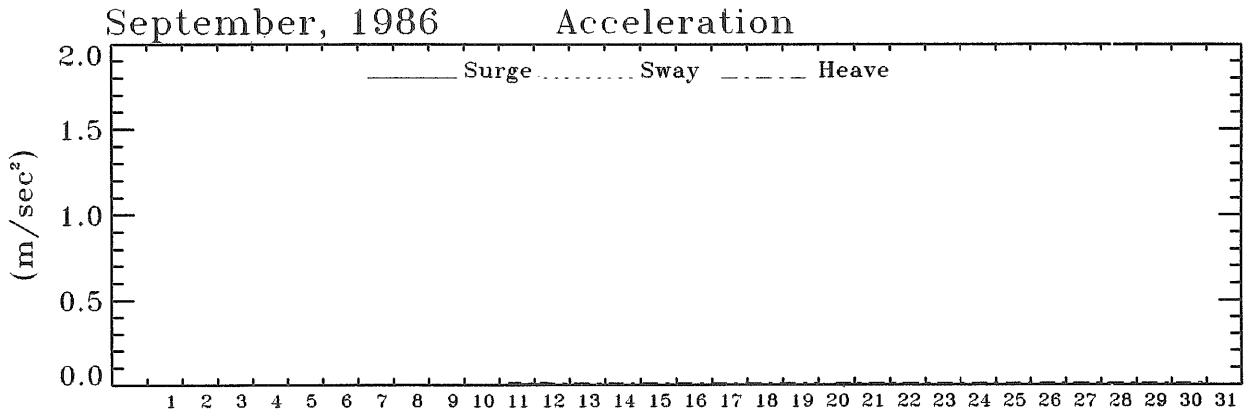
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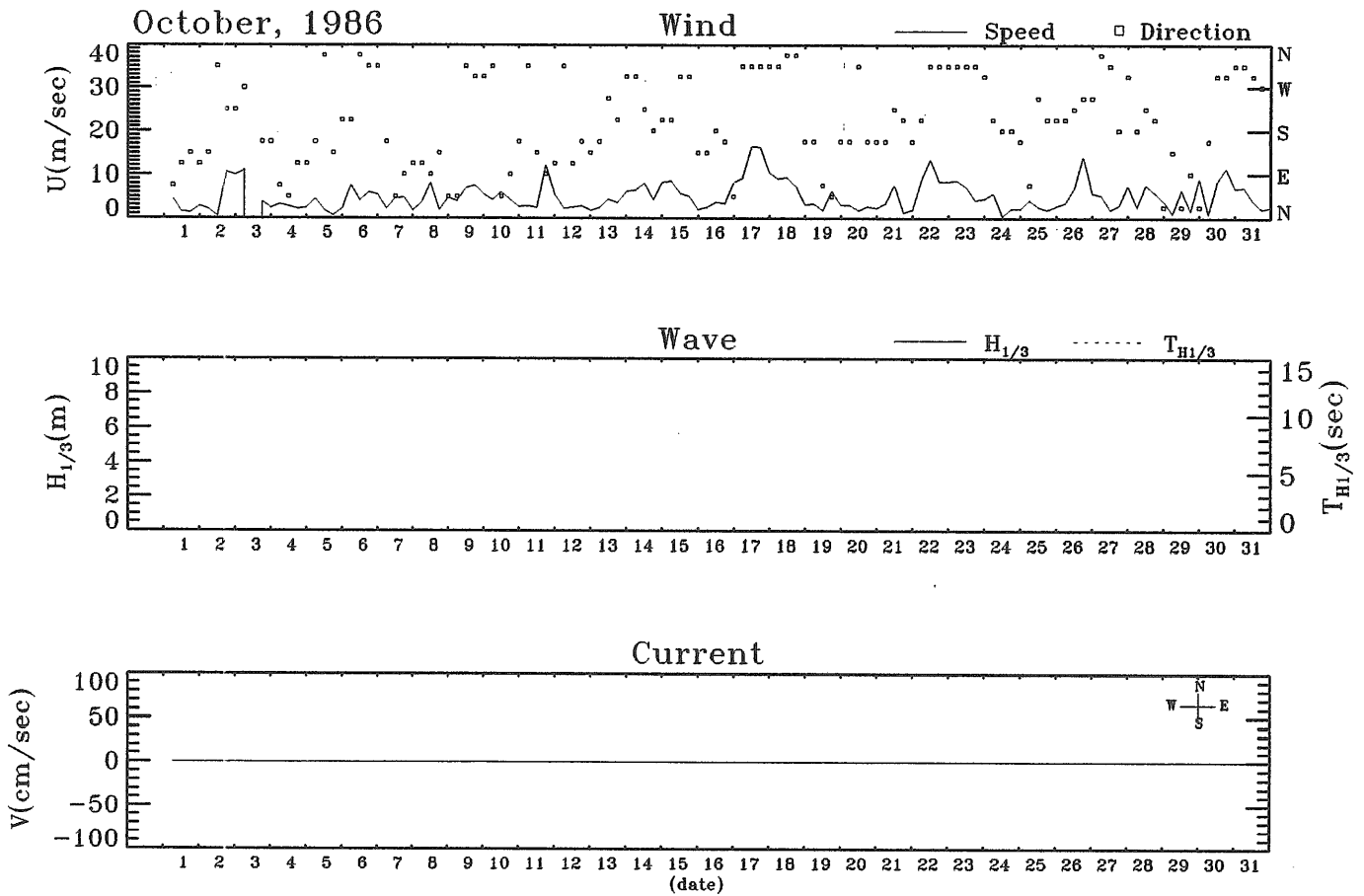


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 *** 月の統計量 <<< 1986 年 9 月 >>> ***
 I T E M : Mean Maximum Std.Dev. 測得率(%)
 =====

I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	5.1197	18.0900	3.2864	65.83
Wave Hight($H_{1/3}$)	---	---	---	.00
Wave Period($T_{H_{1/3}}$)	---	---	---	.00
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.0030	.0058	.0005	65.83
Sway Acc.(Std.Dev.)	.0028	.0029	.0001	65.83
Heave Acc.(Std.Dev.)	.0118	.0134	.0004	65.83
Surge Motion(Std.Dev.)	.0653	.0961	.0104	65.83
Sway Motion(Std.Dev.)	.0751	.0968	.0102	65.83
Heave Motion(Std.Dev.)	.0238	.0262	.0012	65.83
Roll Motion(Std.Dev.)	.0714	.1280	.0162	65.83
Pitch Motion(Std.Dev.)	.0765	.1455	.0244	65.83
Yaw Motion(Std.Dev.)	.4507	.9205	.1231	65.83
Strain No. 1(Std.Dev.)	4.4386	13.5100	3.0605	65.83
Strain No. 9(Std.Dev.)	4.2875	12.4700	2.9335	65.83
Strain No.11(Std.Dev.)	4.0318	10.8000	2.4814	65.83

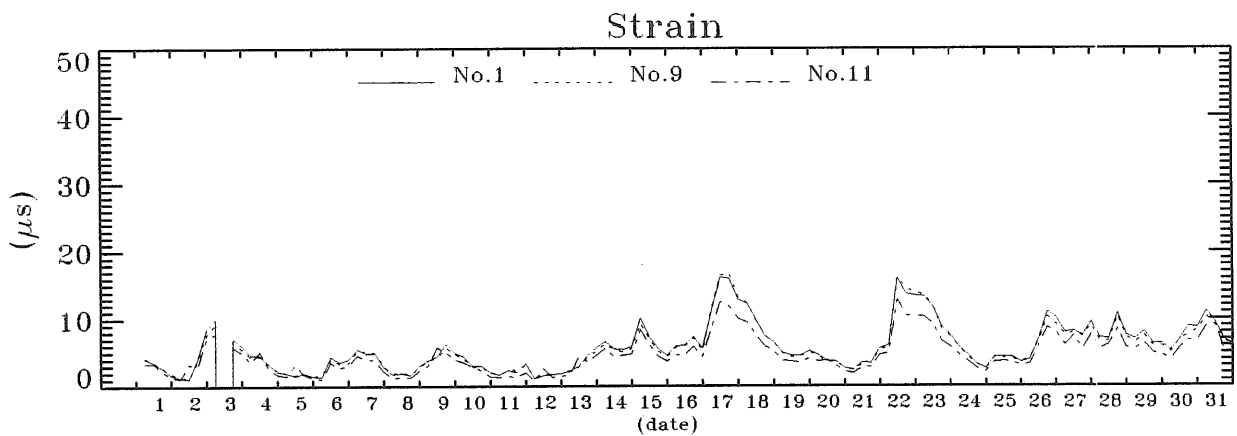
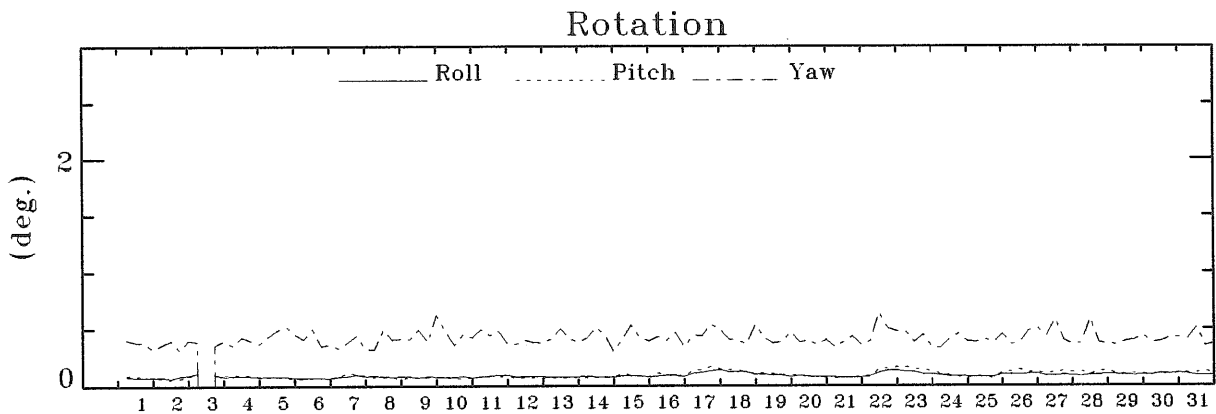
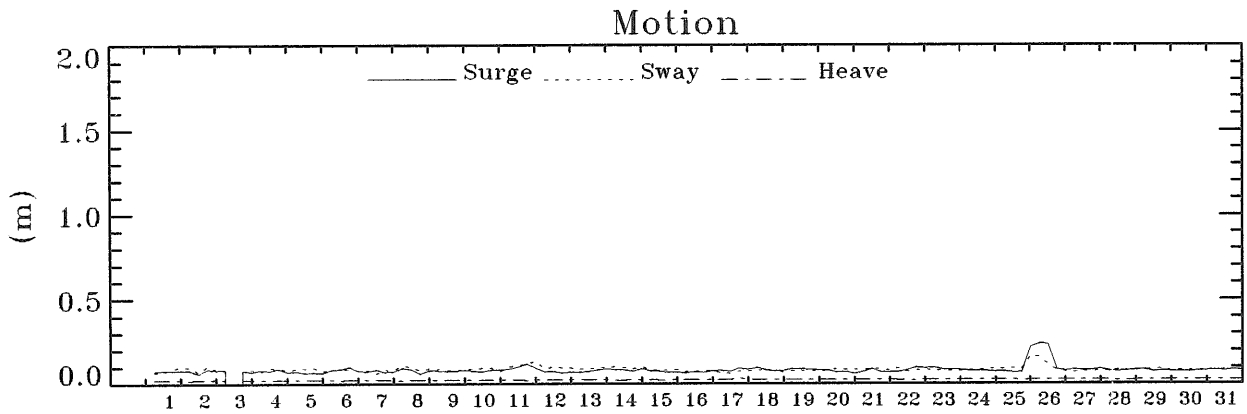
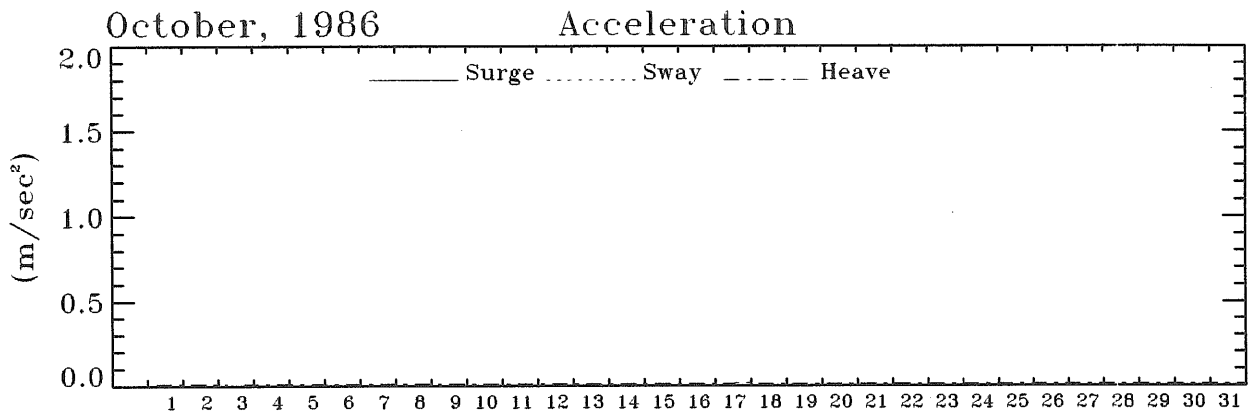
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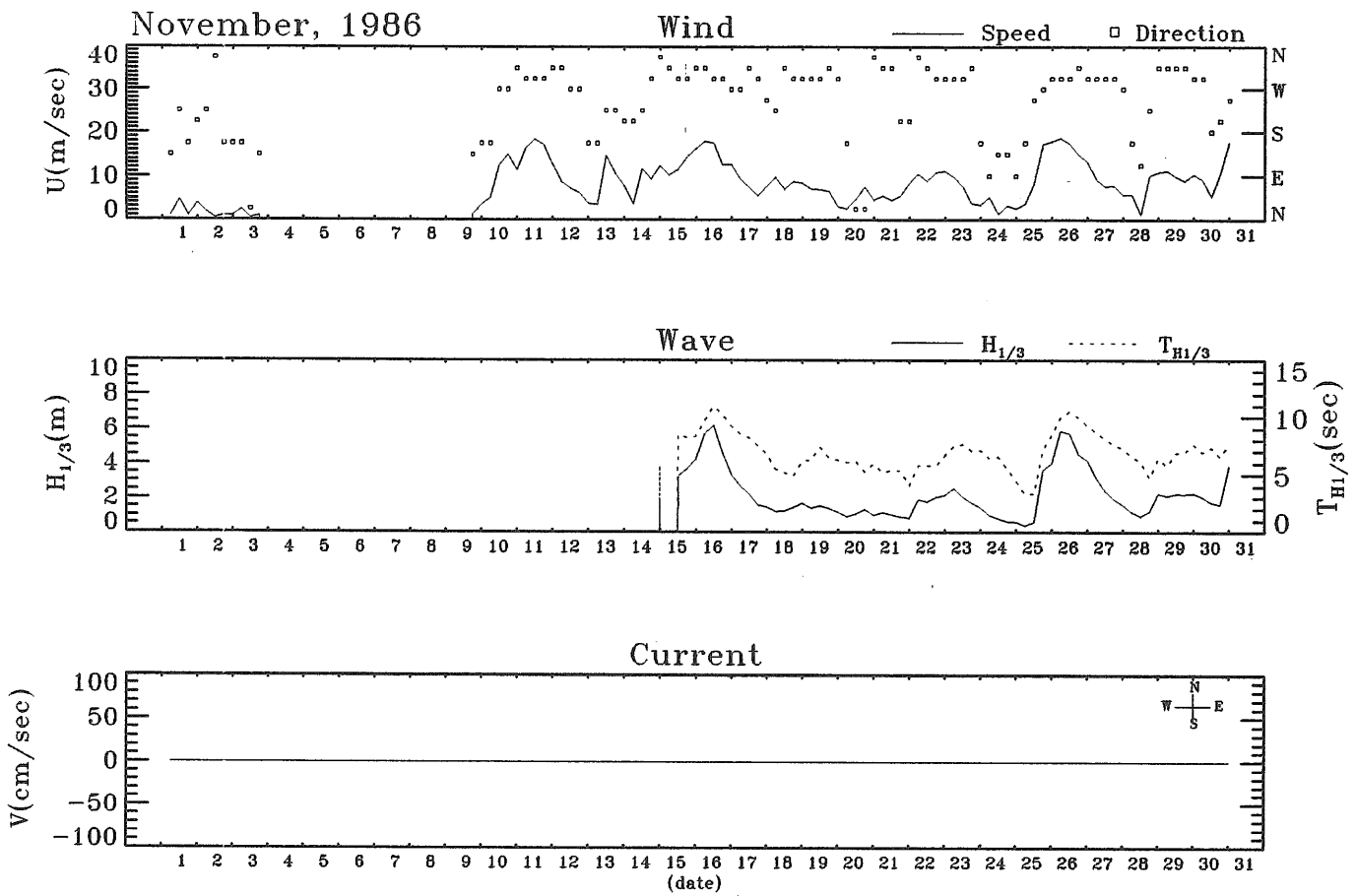




*** 月の統計量 <<< 1986 年 10 月 >>> ***

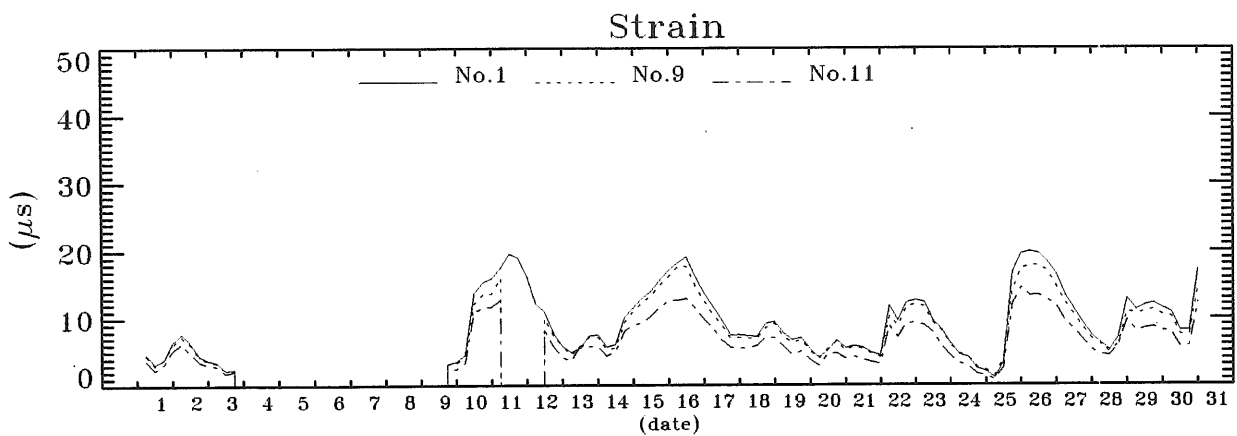
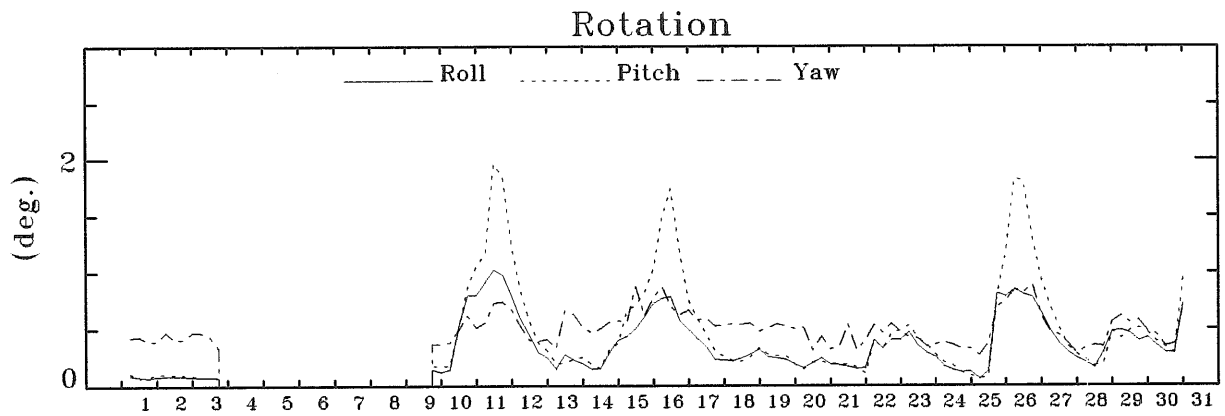
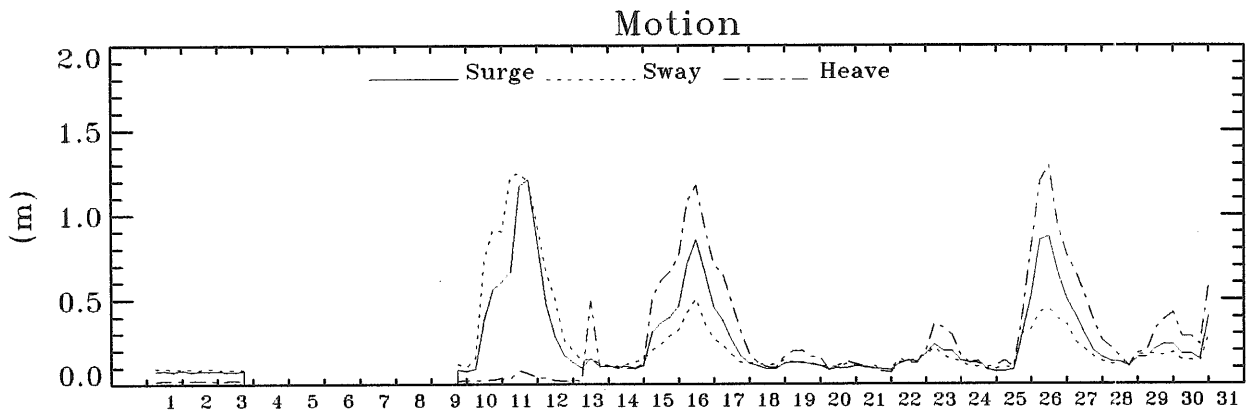
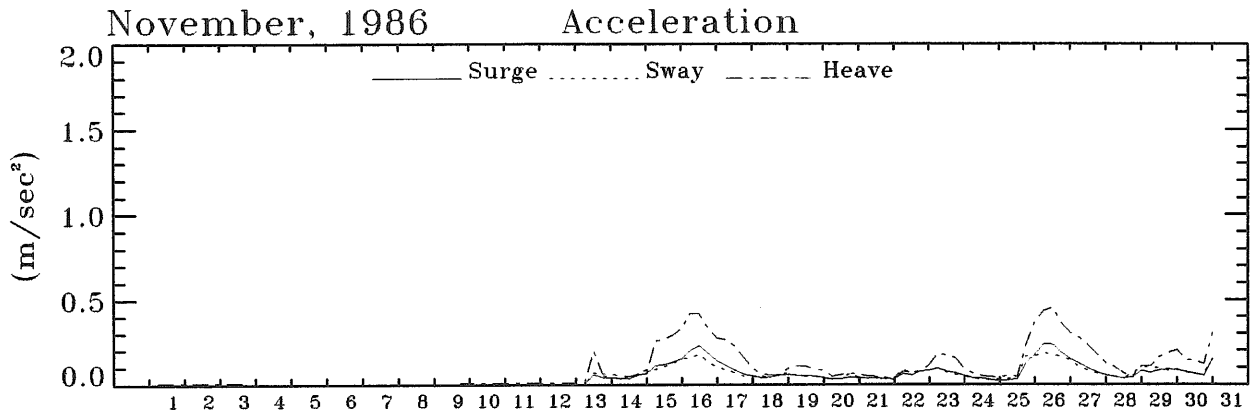
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	4.9504	16.3600	3.2829	99.19
Wave Hight(H _{1/3})	---	---	---	.00
Wave Period(T _{H_{1/3}})	---	---	---	.00
Current Speed (mean) (every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.0027	.0029	.0001	99.19
Sway Acc.(Std.Dev.)	.0026	.0027	.0001	99.19
Heave Acc.(Std.Dev.)	.0118	.0153	.0005	99.19
Surge Motion(Std.Dev.)	.0801	.2356	.0251	99.19
Sway Motion(Std.Dev.)	.0853	.1632	.0148	99.19
Heave Motion(Std.Dev.)	.0229	.0342	.0016	99.19
Roll Motion(Std.Dev.)	.0867	.1379	.0148	99.19
Pitch Motion(Std.Dev.)	.0952	.1678	.0253	99.19
Yaw Motion(Std.Dev.)	.4162	.6381	.0631	99.19
Strain No. 1(Std.Dev.)	5.6947	16.1300	3.4058	99.19
Strain No. 9(Std.Dev.)	5.5973	16.7400	3.3853	99.19
Strain No.11(Std.Dev.)	4.6620	12.8800	2.6258	99.19

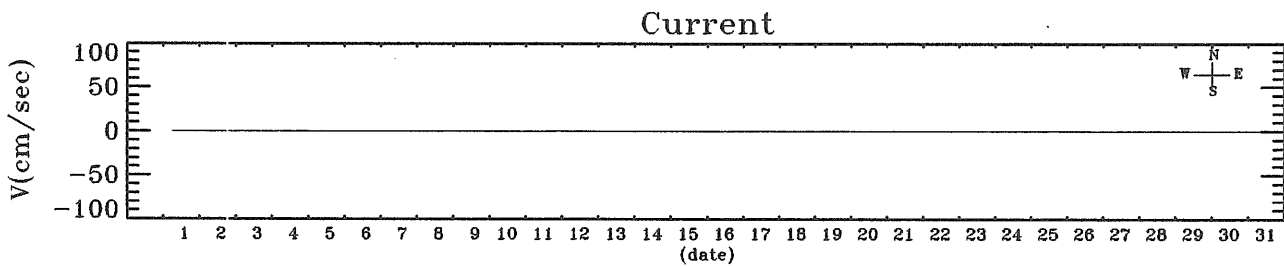
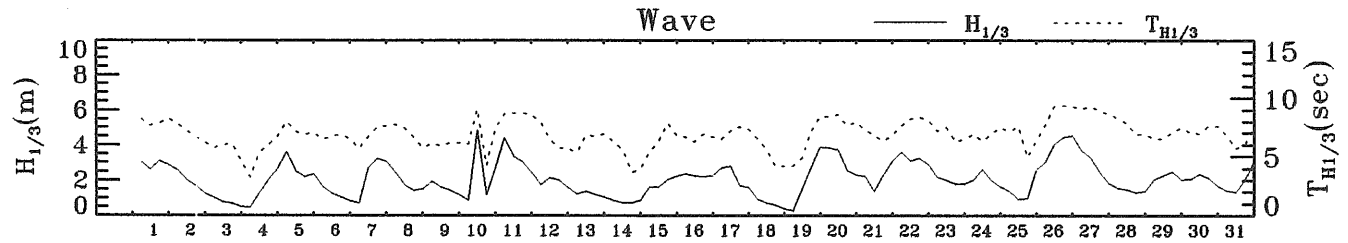
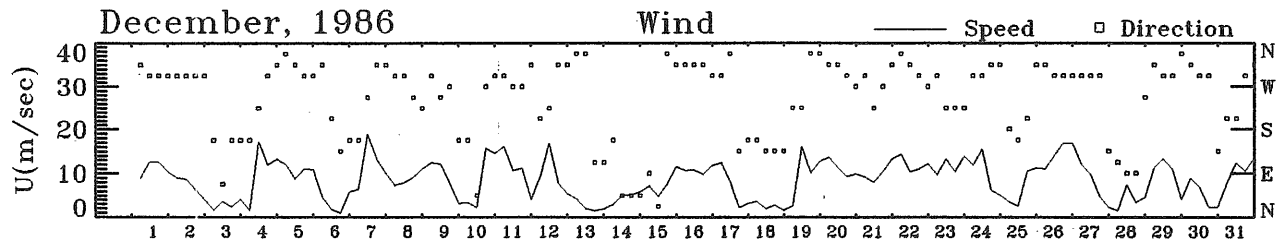




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 *** 月の統計量 <<< 1986 年 11 月 >>> ***
 I T E M : Mean Maximum Std.Dev. 測得率(%)

 Wind Speed (mean) 8.3054 18.6700 4.9464 80.83
 Wave Hight($H_{1/3}$) 2.1834 6.1600 1.3992 53.33
 Wave Period($T_{H_{1/3}}$) 6.9441 10.9600 1.6556 53.33
 Current Speed (mean) --- --- --- .00
 (every hour) --- --- --- .00
 Surge Acc.(Std.Dev.) .0574 .2338 .0565 80.83
 Sway Acc.(Std.Dev.) .0565 .1840 .0488 80.83
 Heave Acc.(Std.Dev.) .1143 .4522 .1154 80.83
 Surge Motion(Std.Dev.) .2485 1.2080 .2456 80.83
 Sway Motion(Std.Dev.) .2376 1.2490 .2493 80.83
 Heave Motion(Std.Dev.) .2573 1.2910 .2964 80.83
 Roll Motion(Std.Dev.) .3510 1.0220 .2442 80.83
 Pitch Motion(Std.Dev.) .4752 1.9620 .4515 80.83
 Yaw Motion(Std.Dev.) .5024 .8894 .1438 80.83
 Strain No. 1(Std.Dev.) 9.3729 19.8500 5.0258 80.83
 Strain No. 9(Std.Dev.) 8.4682 17.8200 4.3030 77.50
 Strain No.11(Std.Dev.) 6.6932 14.5400 3.4030 77.50
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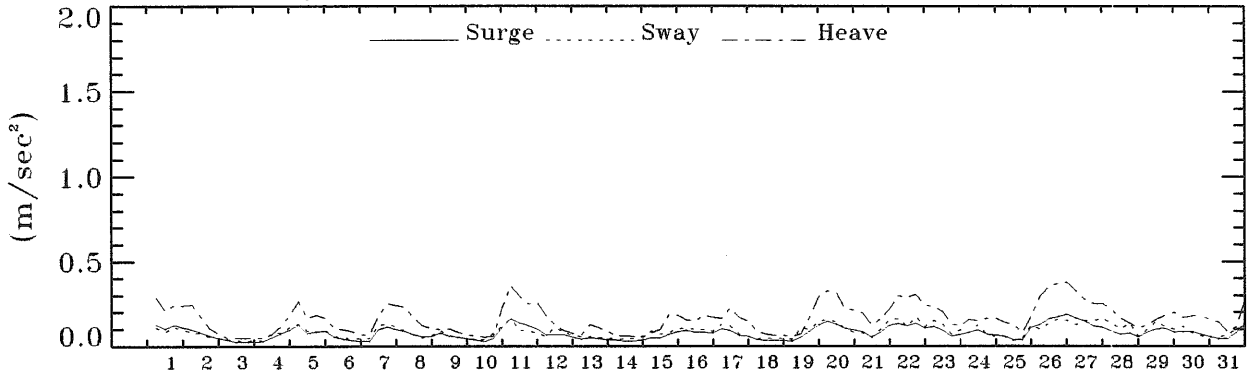




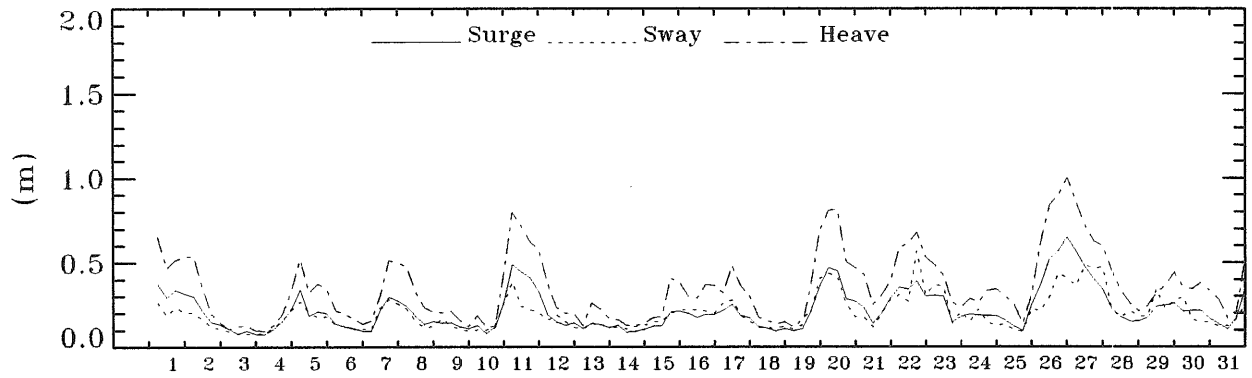
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*** 月の統計量 <<< 1986 年 12 月 >>> ***
I T E M      :      Mean      Maximum      Std.Dev.      測得率(%)
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Wind Speed (mean)      8.4767      18.8400      4.4569      100.00
Wave Hight(H_1/3)     2.0483      4.8300      .9633      100.00
Wave Period(T_H_1/3)  6.9051      9.3600      1.2453      100.00
Current Speed (mean)   ---         ---         ---         .00
    (every hour)      ---         ---         ---         .00
Surge Acc.(Std.Dev.)   .0766      .1859      .0371      100.00
Sway Acc.(Std.Dev.)    .0869      .1748      .0375      100.00
Heave Acc.(Std.Dev.)   .1636      .3762      .0833      100.00
Surge Motion(Std.Dev.) .2152      .6471      .1179      100.00
Sway Motion(Std.Dev.)  .2001      .5682      .0993      100.00
Heave Motion(Std.Dev.) .3507      1.0010     .2017      100.00
Roll Motion(Std.Dev.)  .3648      .8080      .1740      100.00
Pitch Motion(Std.Dev.) .4185      1.2570     .2405      100.00
Yaw Motion(Std.Dev.)   .4605      .8563      .1203      99.19
Strain No. 1(Std.Dev.) 9.6516      18.8100     4.1687      100.00
Strain No. 9(Std.Dev.) 8.6162      16.2400     3.5055      95.16
Strain No.11(Std.Dev.) 6.7857      12.9600     2.8460      95.16
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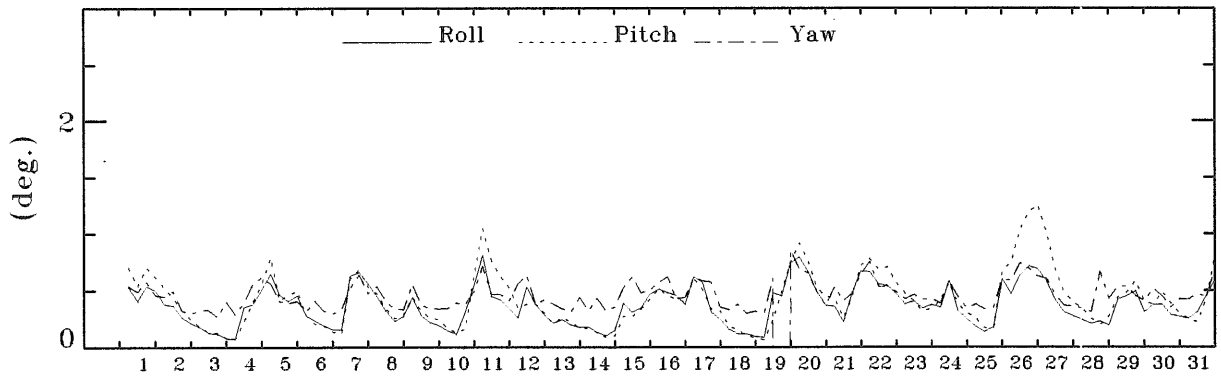

December, 1986 Acceleration



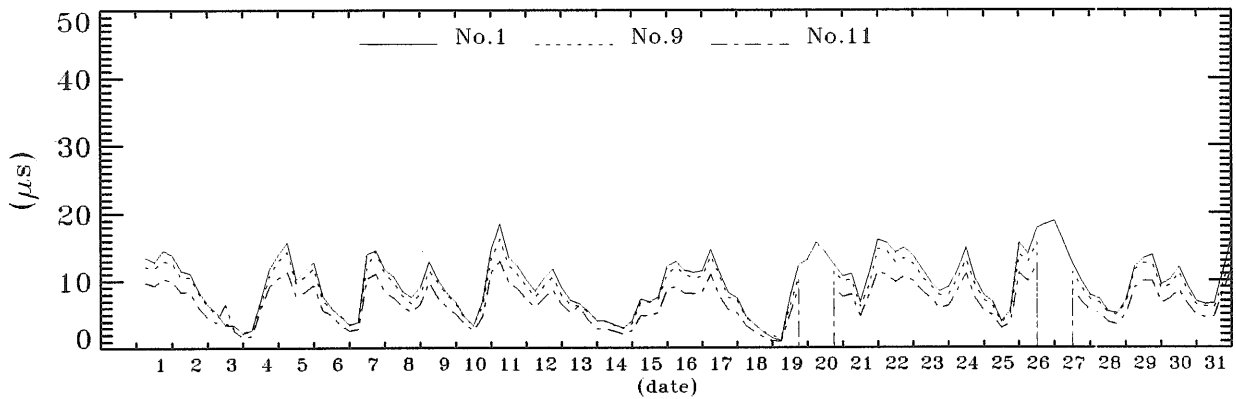
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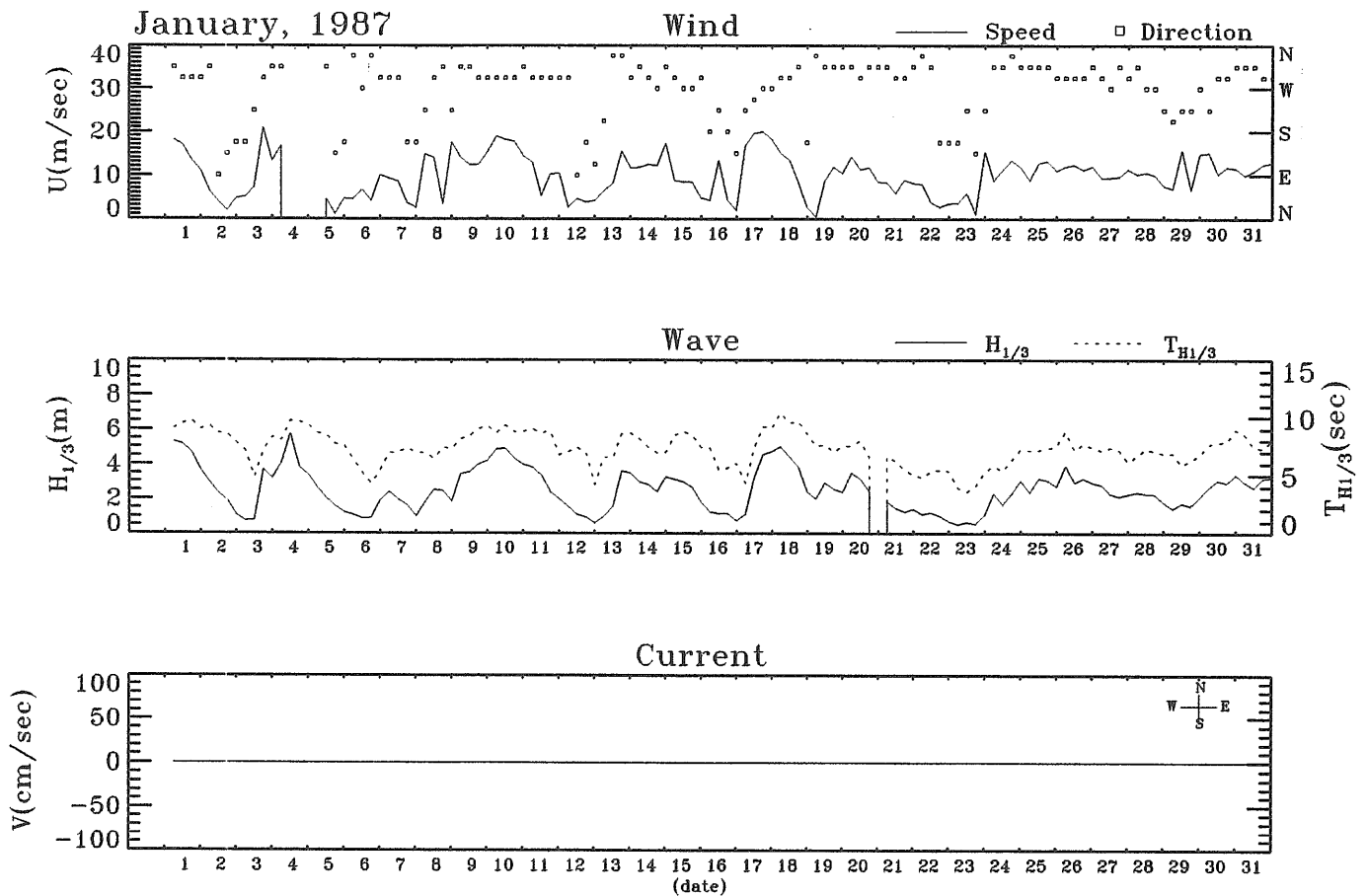


Rotation



Strain

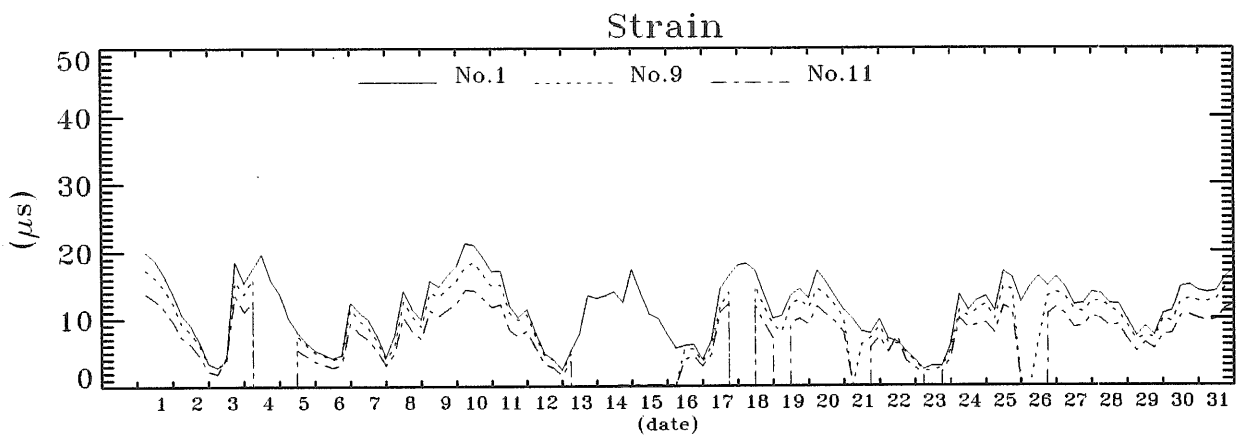
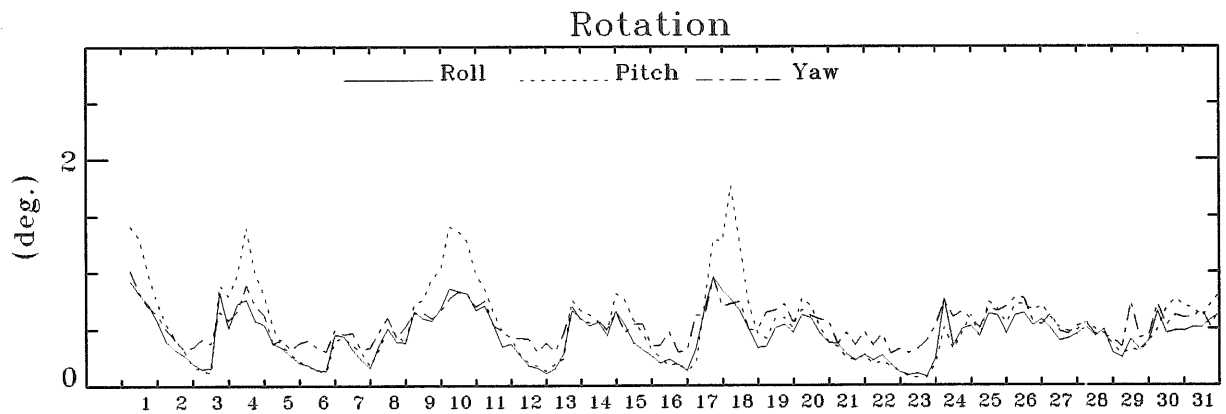
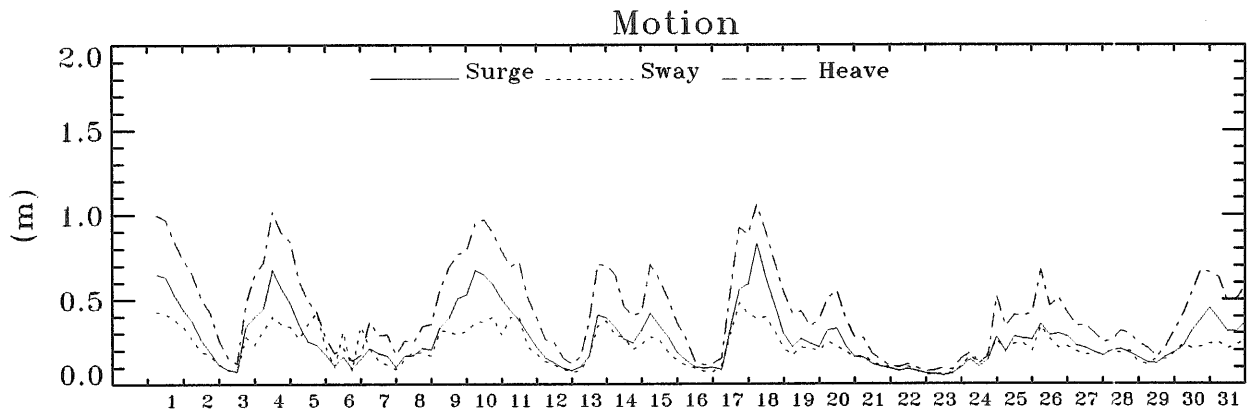
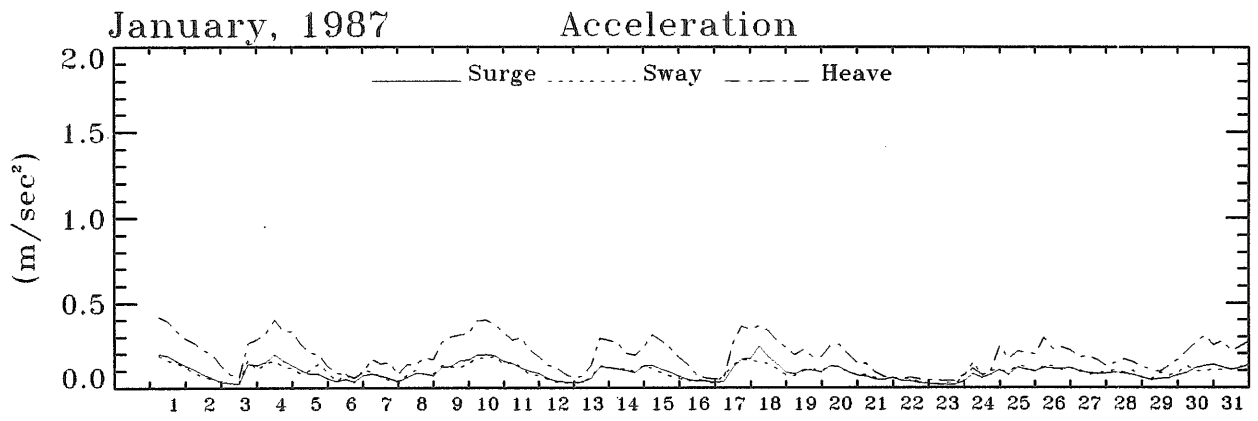


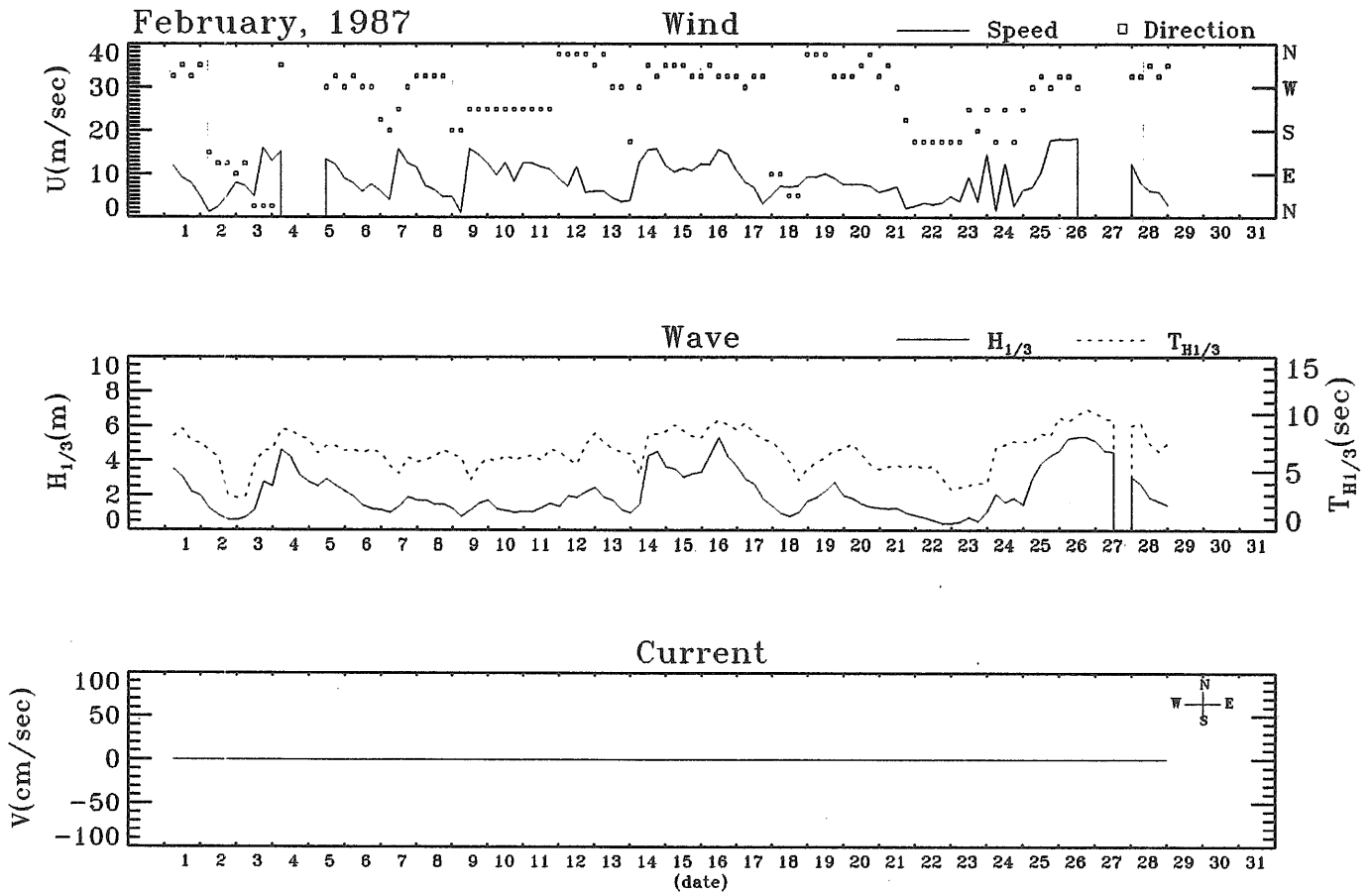


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*** 月の統計量 <<< 1987 年 1 月 >>> ***
I T E M      :      Mean      Maximum      Std.Dev.      測得率(%)
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Wind Speed (mean)      9.9827      20.8700      4.7694      96.77
Wave Hight(H_1/3)     2.4898      5.7400      1.1941      99.19
Wave Period(T_H_1/3)  7.3735      10.4300     1.4264      99.19
Current Speed (mean)   ---         ---         ---         .00
    (every hour)      ---         ---         ---         .00
Surge Acc.(Std.Dev.)  .0920      .2440      .0471      100.00
Sway Acc.(Std.Dev.)   .0934      .1902      .0407      100.00
Heave Acc.(Std.Dev.)  .1967      .4207      .0985      100.00
Surge Motion(Std.Dev.) .2703      .8272      .1654      100.00
Sway Motion(Std.Dev.) .2185      .4796      .1017      100.00
Heave Motion(Std.Dev.) .4381      1.0570     .2562      100.00
Roll Motion(Std.Dev.) .4416      .9551      .2062      100.00
Pitch Motion(Std.Dev.) .5497      1.7670     .3427      100.00
Yaw Motion(Std.Dev.)  .5397      1.0180     .1554      100.00
Strain No. 1(Std.Dev.) 11.4826     21.2700     4.7249     100.00
Strain No. 9(Std.Dev.)  8.9492     18.5300     4.9137     91.94
Strain No.11(Std.Dev.) 7.2193     14.4000     3.9634     88.71
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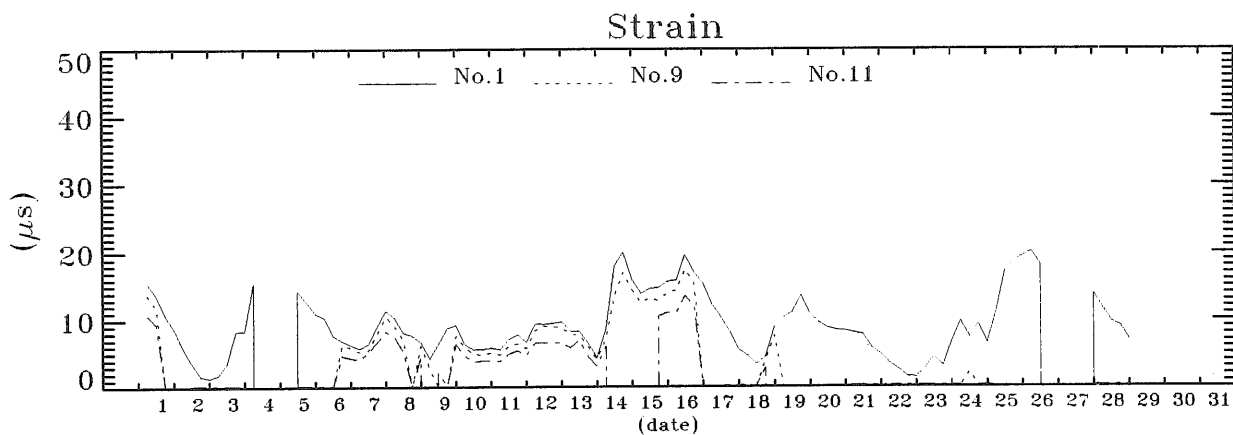
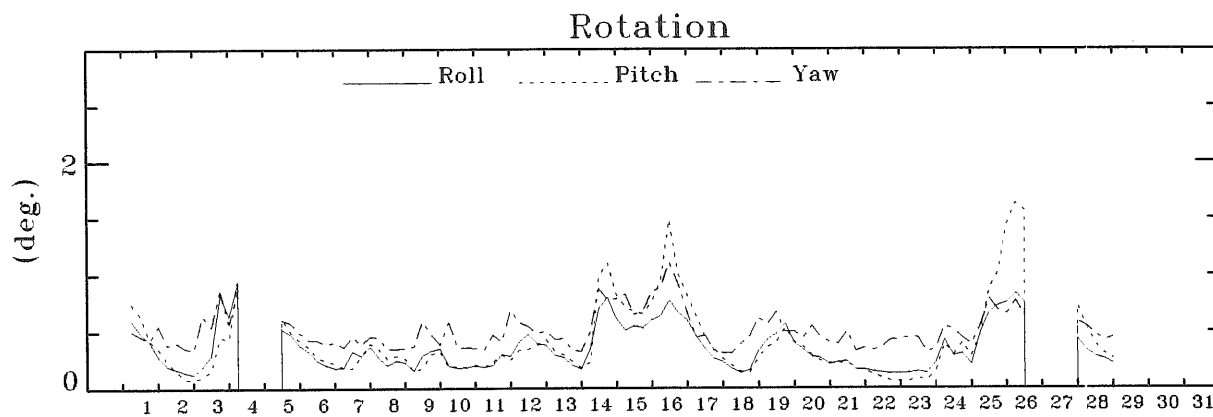
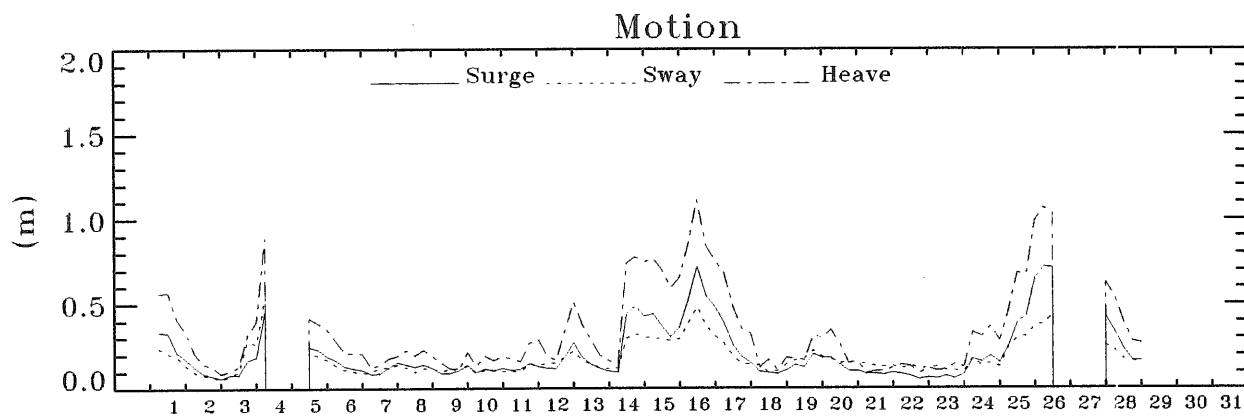
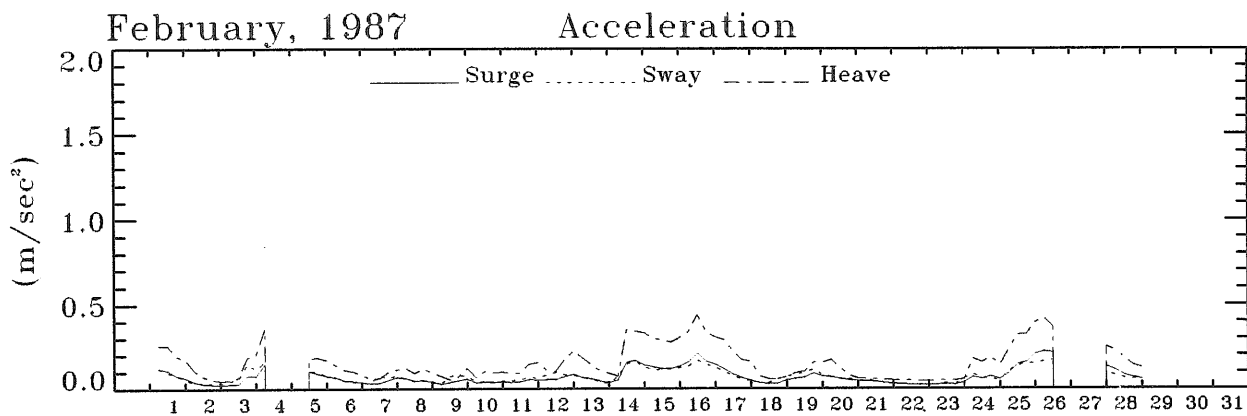


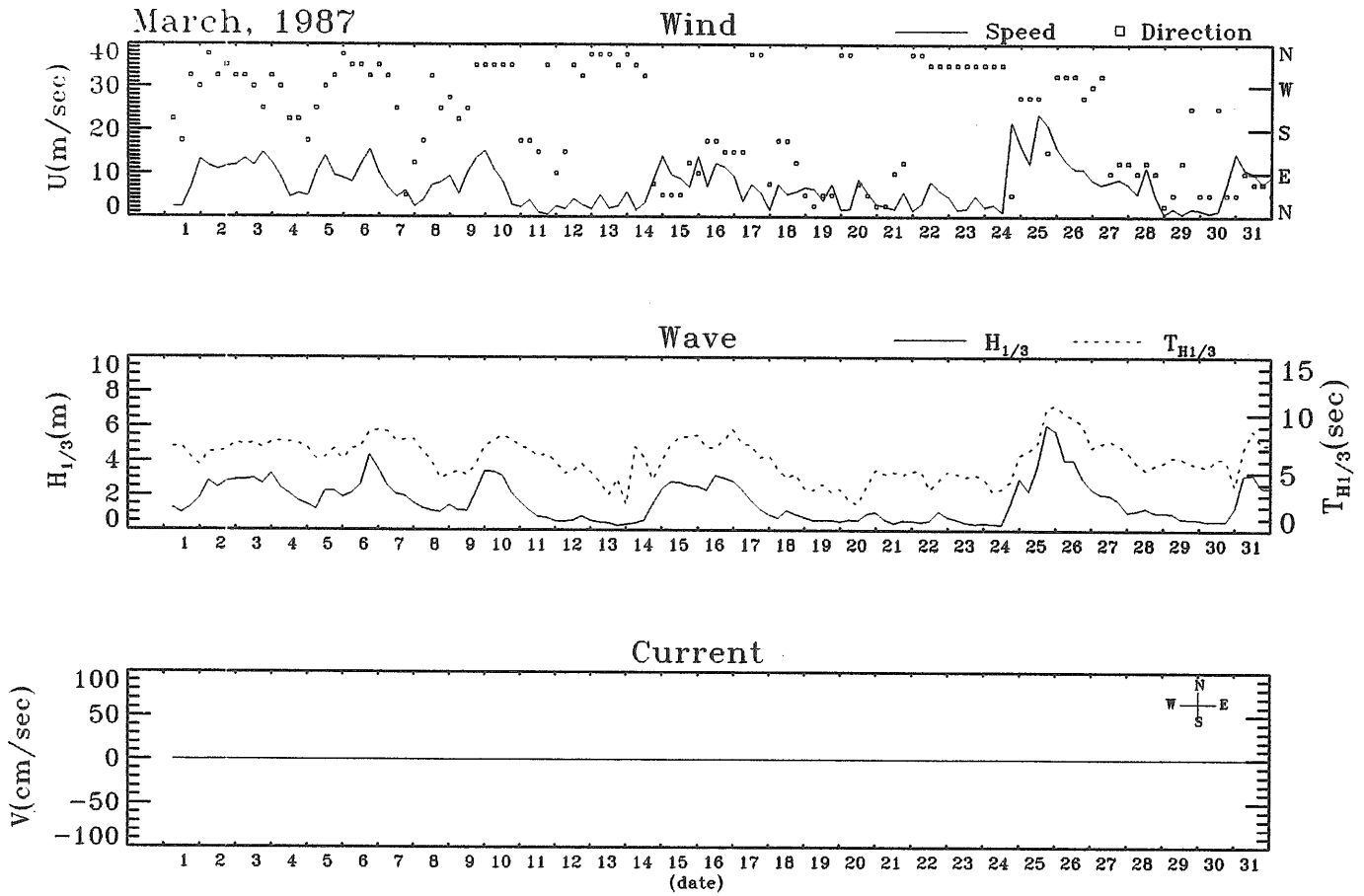


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 *** 月の統計量 <<< 1987 年 2 月 >>> ***
 I T E M : Mean Maximum Std.Dev. 測得率(%)
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I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	8.7466	18.2500	4.3120	91.96
Wave Hight($H_{1/3}$)	2.1295	5.3400	1.2920	99.11
Wave Period($T_{H_{1/3}}$)	6.8844	10.4300	1.6464	99.11
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.0705	.2181	.0472	91.96
Sway Acc.(Std.Dev.)	.0740	.1699	.0393	91.96
Heave Acc.(Std.Dev.)	.1557	.4385	.1005	91.96
Surge Motion(Std.Dev.)	.2017	.7166	.1553	91.96
Sway Motion(Std.Dev.)	.1785	.5431	.0925	91.96
Heave Motion(Std.Dev.)	.3384	1.1080	.2524	91.96
Roll Motion(Std.Dev.)	.3519	.9295	.1966	91.96
Pitch Motion(Std.Dev.)	.4114	1.6300	.3304	91.96
Yaw Motion(Std.Dev.)	.5097	1.1070	.1625	91.96
Strain No. 1(Std.Dev.)	9.1576	20.0900	4.5881	91.96
Strain No. 9(Std.Dev.)	3.6405	17.4700	4.9214	91.96
Strain No.11(Std.Dev.)	2.6429	13.5500	3.4974	80.36

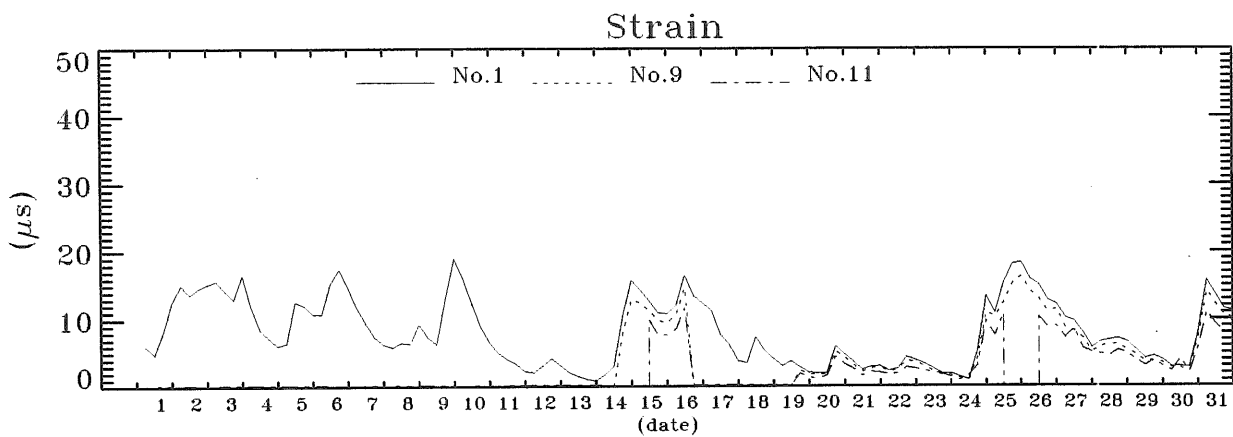
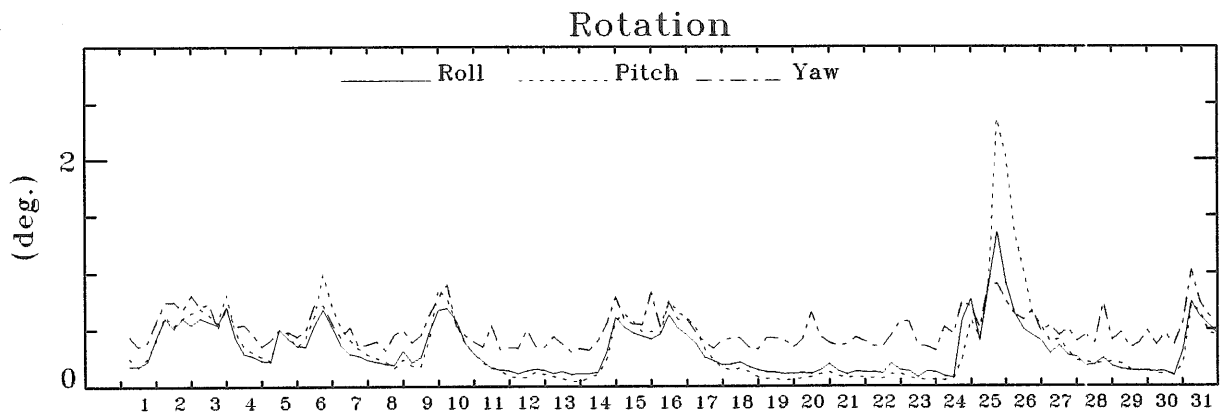
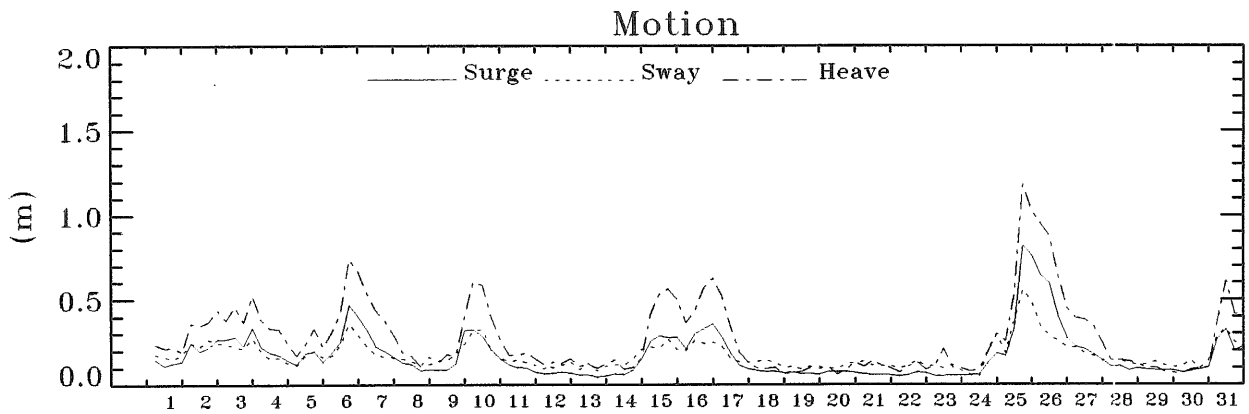
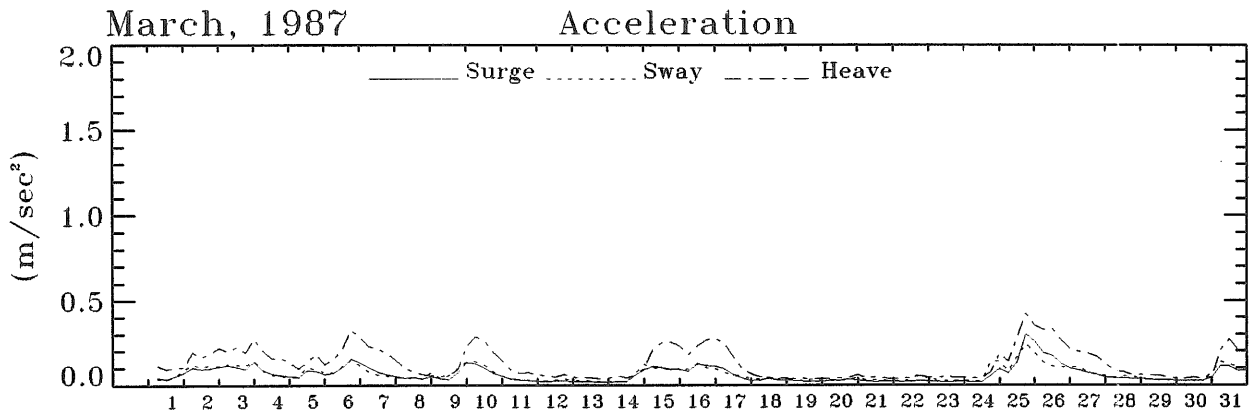
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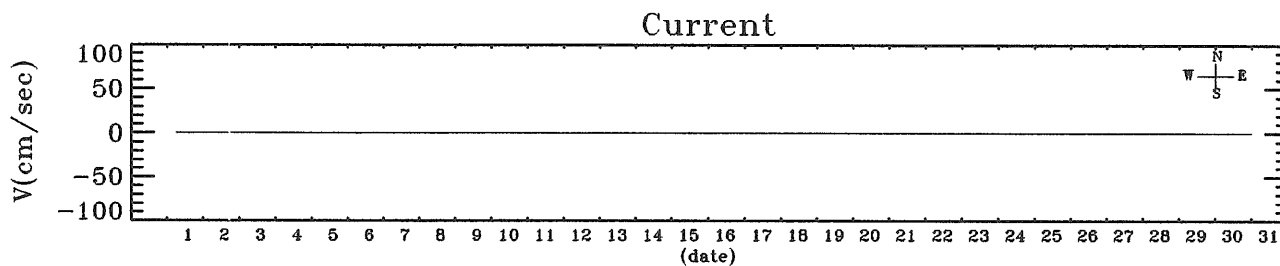
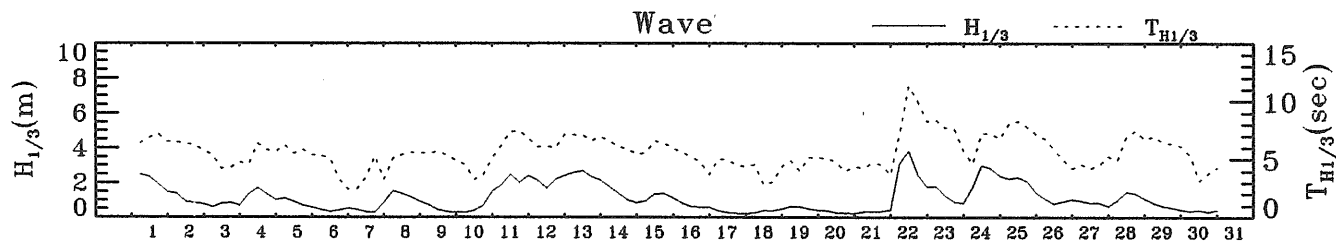
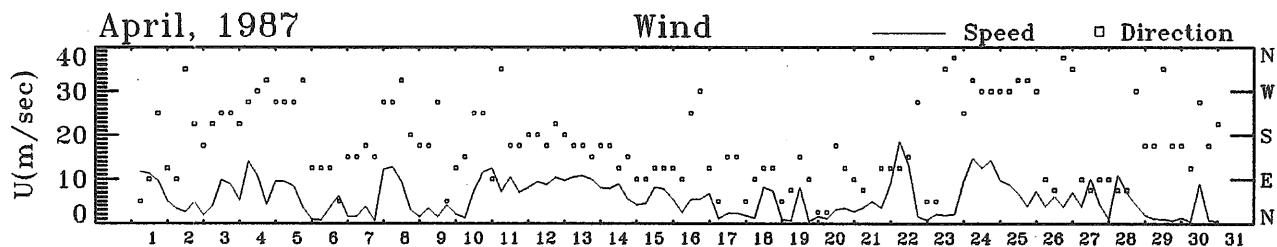




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 *** 月の統計量 <<< 1987 年 3 月 >>> ***
 I T E M : Mean Maximum Std.Dev. 測得率(%)

 Wind Speed (mean) 7.2308 23.7000 4.8338 100.00
 Wave Hight($H_{1/3}$) 1.6603 6.0900 1.1640 100.00
 Wave Period($T_{H1/3}$) 6.2564 10.8300 1.7019 100.00
 Current Speed (mean) --- --- --- .00
 (every hour) --- --- --- .00
 Surge Acc.(Std.Dev.) .0617 .2984 .0477 100.00
 Sway Acc.(Std.Dev.) .0672 .2422 .0428 100.00
 Heave Acc.(Std.Dev.) .1282 .4206 .0913 100.00
 Surge Motion(Std.Dev.) .1690 .8167 .1373 100.00
 Sway Motion(Std.Dev.) .1752 .5565 .0809 100.00
 Heave Motion(Std.Dev.) .2754 1.1800 .2154 100.00
 Roll Motion(Std.Dev.) .3179 1.3500 .2207 100.00
 Pitch Motion(Std.Dev.) .3535 2.3560 .3485 100.00
 Yaw Motion(Std.Dev.) .5053 1.0220 .1551 100.00
 Strain No. 1(Std.Dev.) 8.0511 18.9300 4.9567 100.00
 Strain No. 9(Std.Dev.) 3.1818 16.3400 4.4991 100.00
 Strain No.11(Std.Dev.) 2.2705 11.6200 3.1692 95.16
 =====

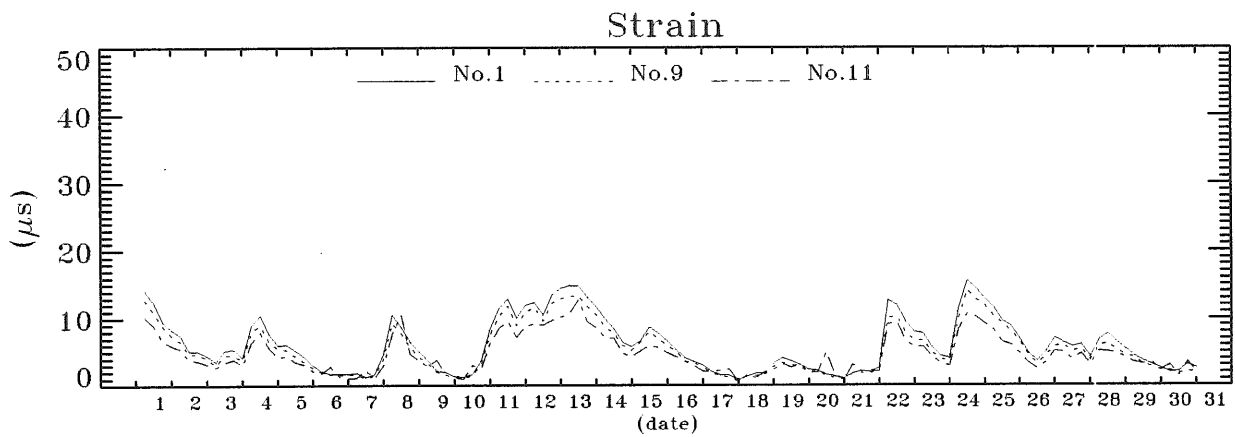
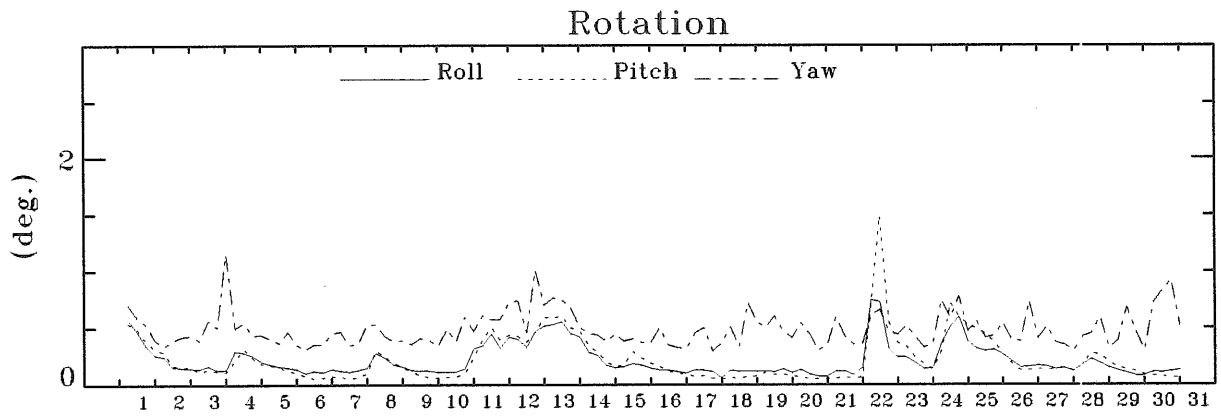
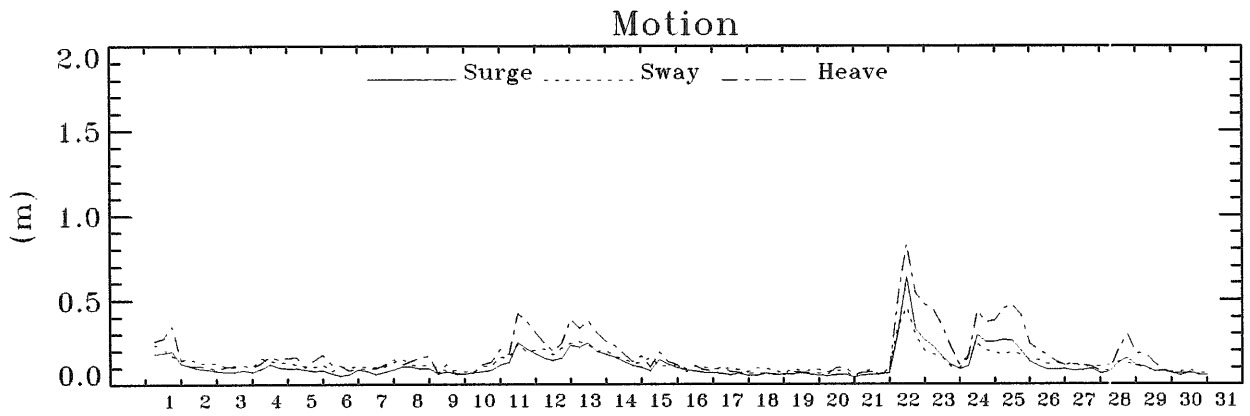
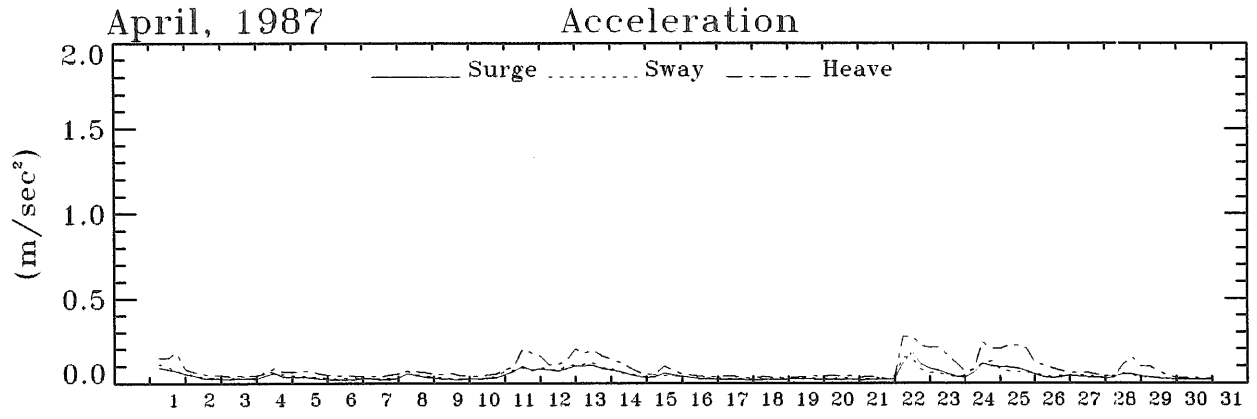


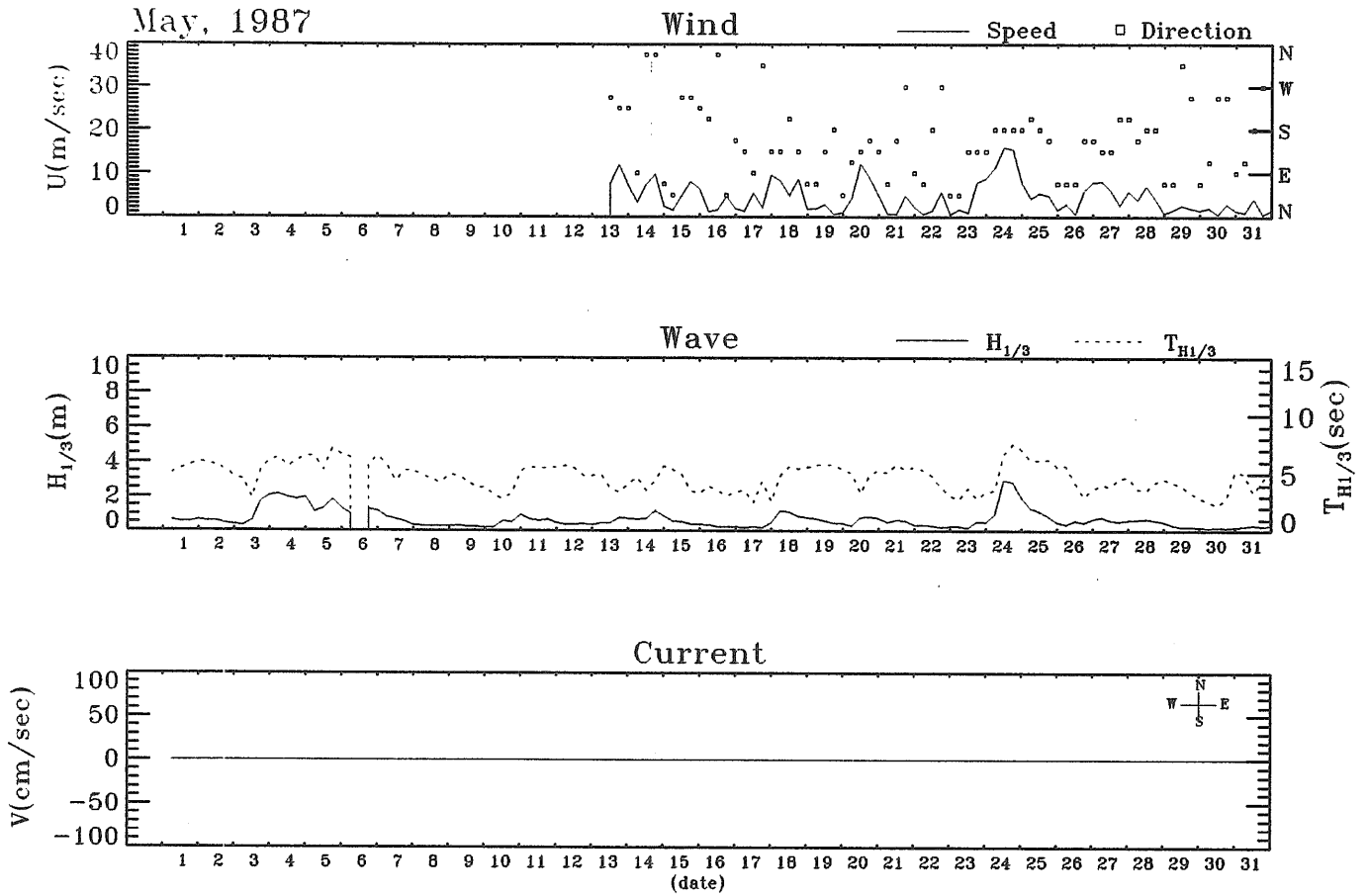


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 *** 月の統計量 <<< 1987 年 4 月 >>> ***
 I T E M : Mean Maximum Std.Dev. 測得率(%)
 =====

I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	5.7749	18.4100	4.0419	100.00
Wave Hight($H_{1/3}$)	1.0937	3.8000	.7842	100.00
Wave Period($T_{H_{1/3}}$)	5.6387	11.3400	1.4698	100.00
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.0431	.1774	.0288	100.00
Sway Acc.(Std.Dev.)	.0482	.1525	.0281	100.00
Heave Acc.(Std.Dev.)	.0840	.2752	.0617	100.00
Surge Motion(Std.Dev.)	.1156	.6317	.0800	100.00
Sway Motion(Std.Dev.)	.1321	.4577	.0609	100.00
Heave Motion(Std.Dev.)	.1745	.8277	.1322	100.00
Roll Motion(Std.Dev.)	.2100	.7400	.1402	100.00
Pitch Motion(Std.Dev.)	.2214	1.4900	.2024	100.00
Yaw Motion(Std.Dev.)	.4864	1.1560	.1522	100.00
Strain No. 1(Std.Dev.)	6.0084	15.5400	3.9678	100.00
Strain No. 9(Std.Dev.)	5.3730	14.1600	3.5662	100.00
Strain No.11(Std.Dev.)	4.6620	12.7900	2.7984	100.00

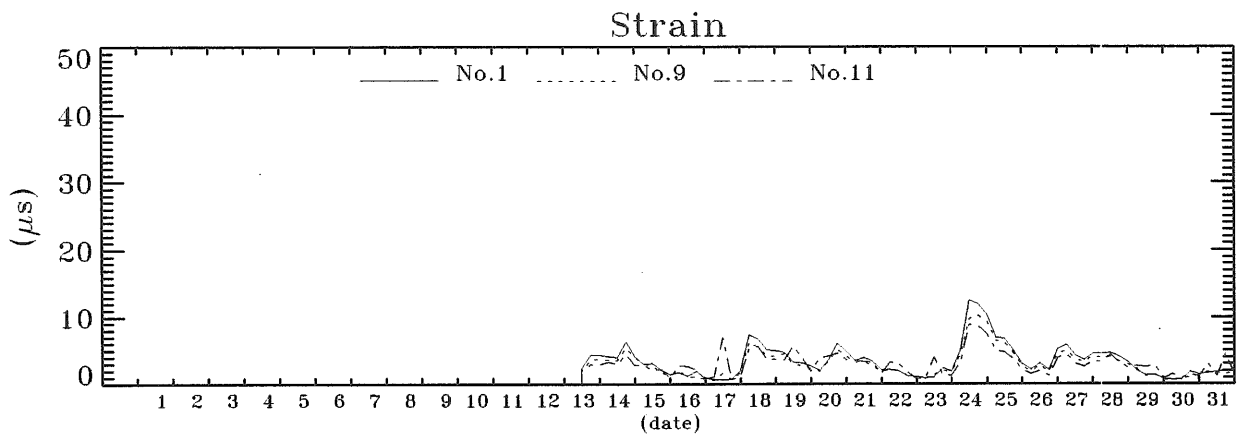
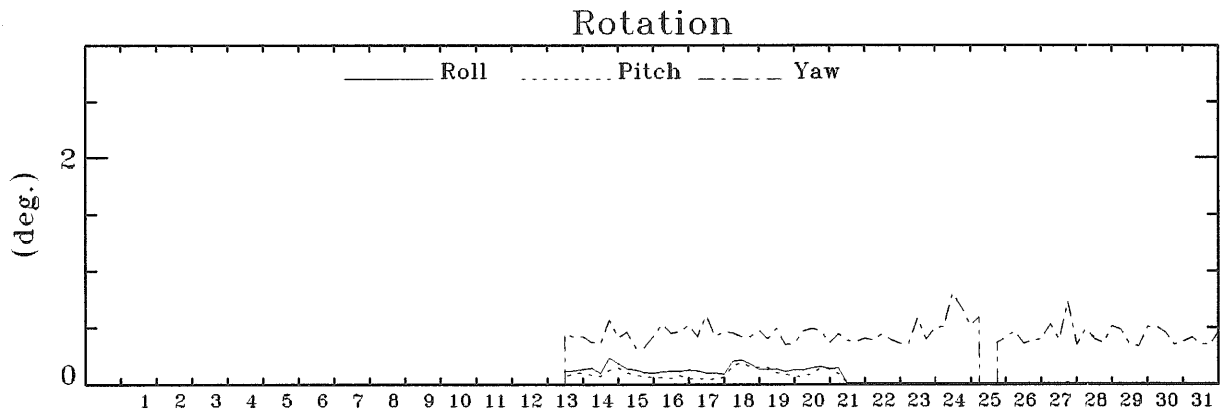
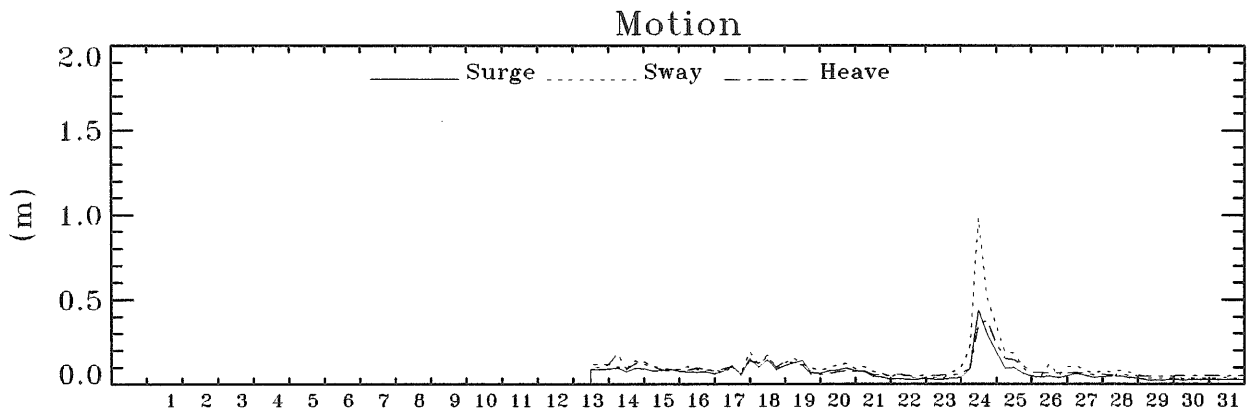
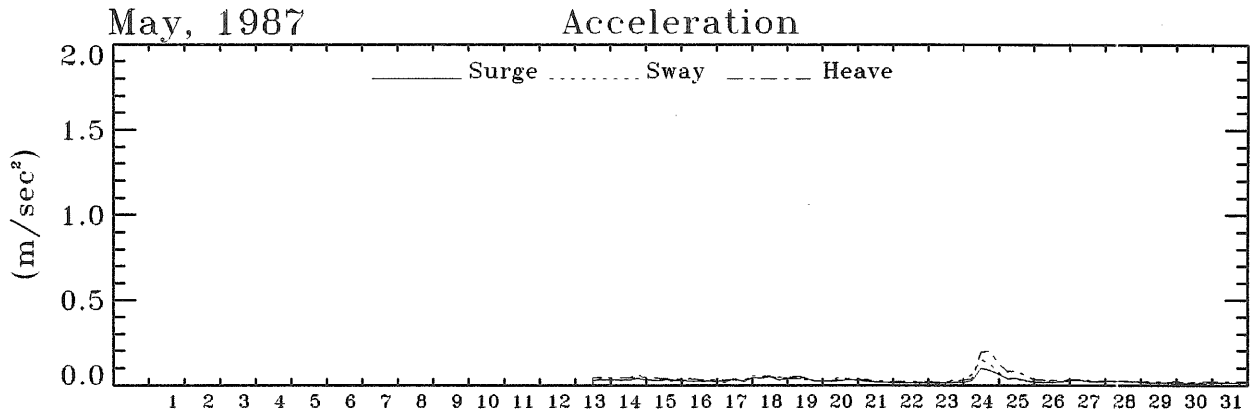
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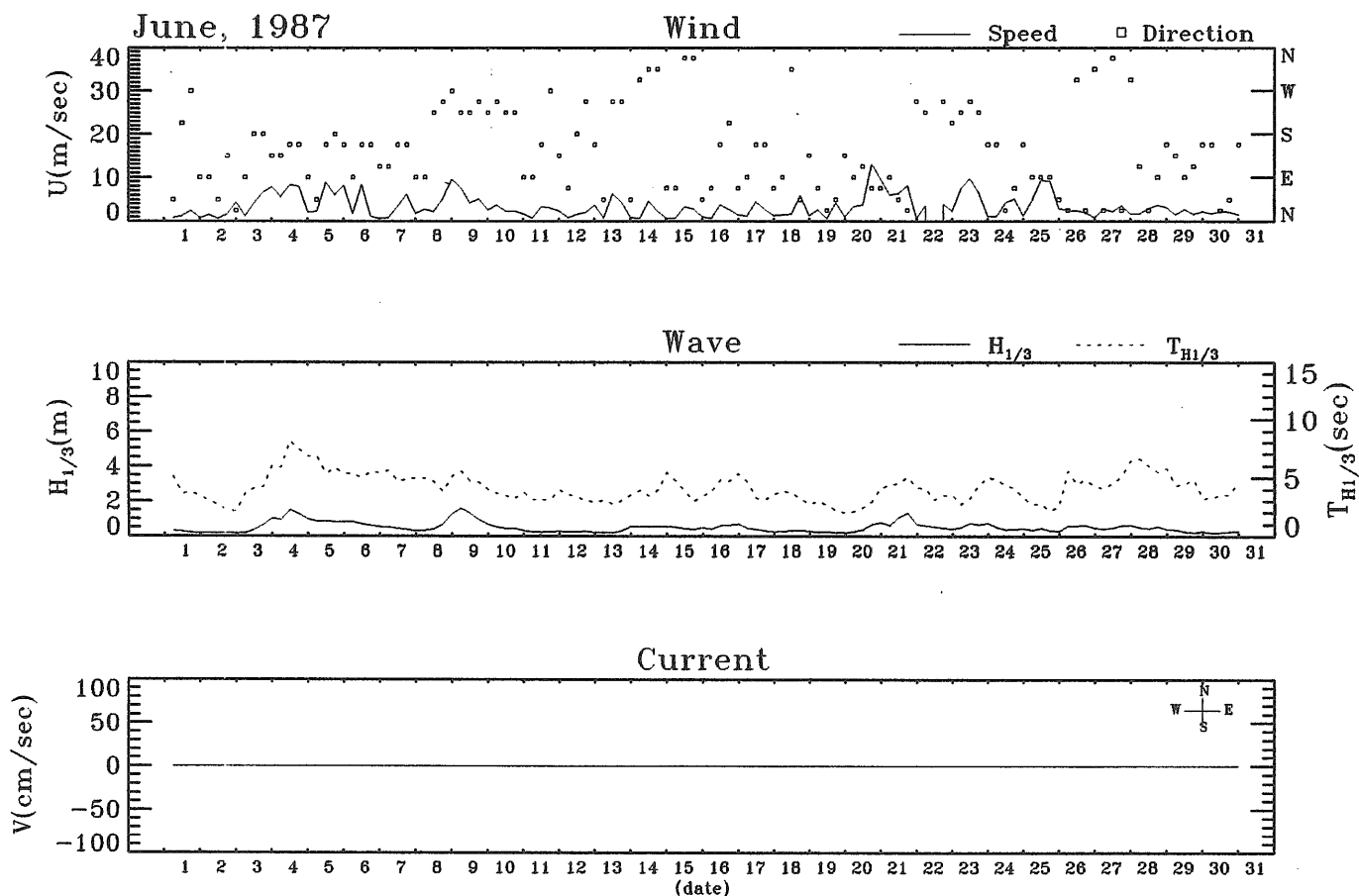




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 *** 月の統計量 <<< 1987 年 5 月 >>> ***
 I T E M : Mean Maximum Std.Dev. 測得率(%)

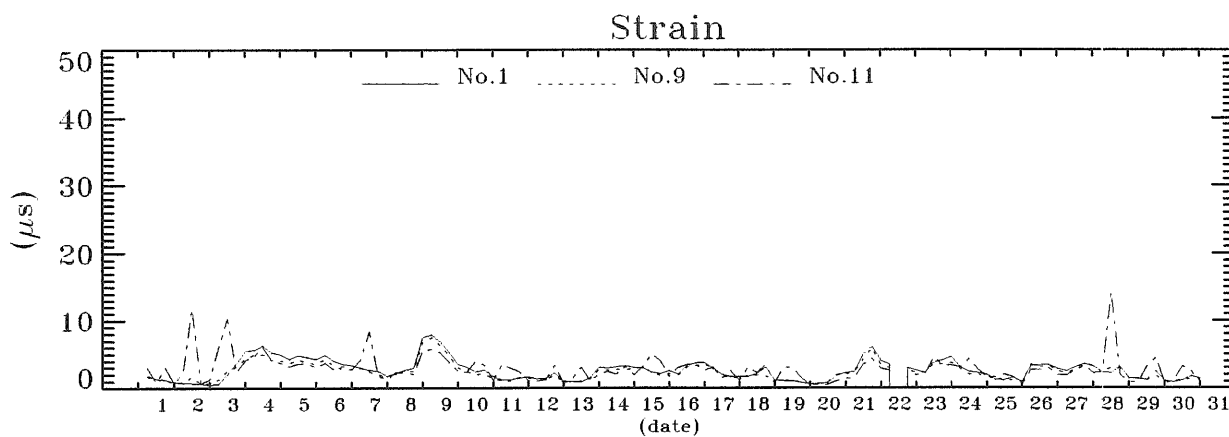
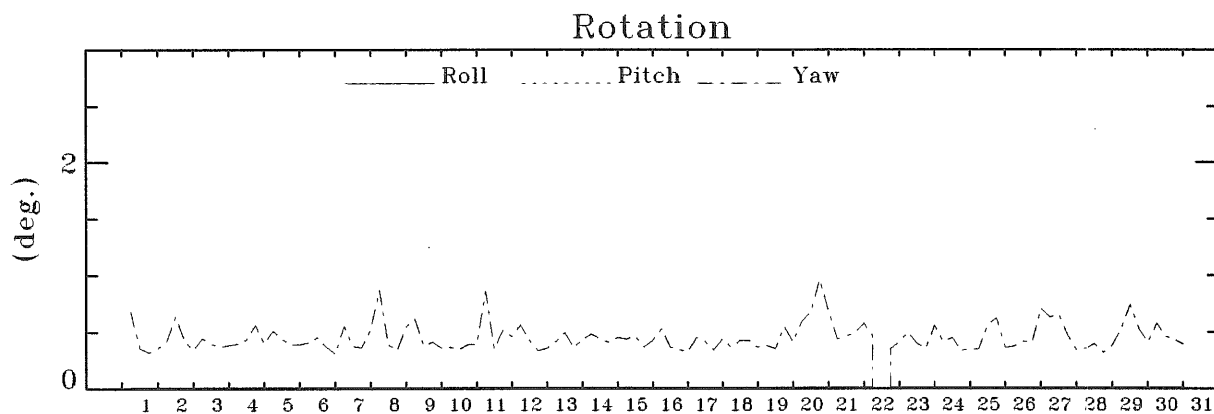
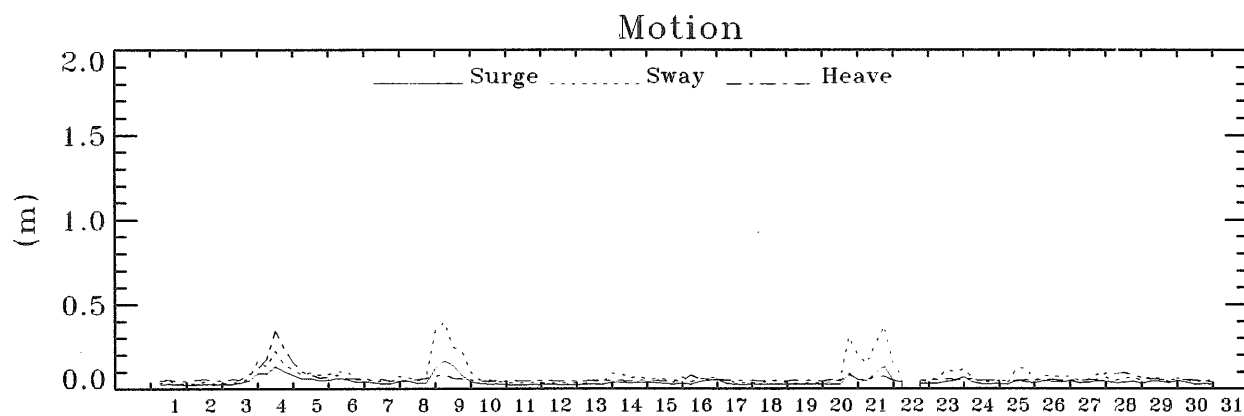
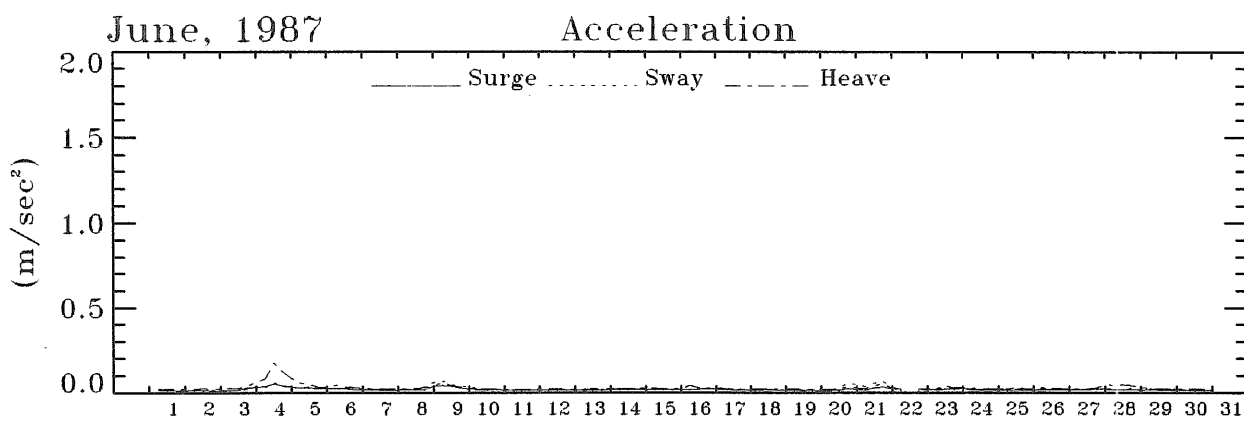
 Wind Speed (mean) 4.5031 15.9400 3.5992 60.48
 Wave Hight($H_{1/3}$) .6691 2.9500 .5241 99.19
 Wave Period($T_{H_{1/3}}$) 4.7370 7.5200 1.1684 99.19
 Current Speed (mean) --- --- --- .00
 (every hour) --- --- --- .00
 Surge Acc.(Std.Dev.) .0255 .0980 .0154 60.48
 Sway Acc.(Std.Dev.) .0306 .1510 .0223 60.48
 Heave Acc.(Std.Dev.) .0388 .1997 .0311 60.48
 Surge Motion(Std.Dev.) .0701 .4354 .0610 60.48
 Sway Motion(Std.Dev.) .1053 .9799 .1235 60.48
 Heave Motion(Std.Dev.) .0885 .3760 .0591 60.48
 Roll Motion(Std.Dev.) .0596 .2309 .0667 60.48
 Pitch Motion(Std.Dev.) .0478 .1896 .0485 60.48
 Yaw Motion(Std.Dev.) .4433 .8005 .0896 59.68
 Strain No. 1(Std.Dev.) 3.3522 12.4800 2.4049 60.48
 Strain No. 9(Std.Dev.) 3.0021 10.2200 2.0189 60.48
 Strain No.11(Std.Dev.) 3.0323 8.8280 1.7178 60.48
 =====

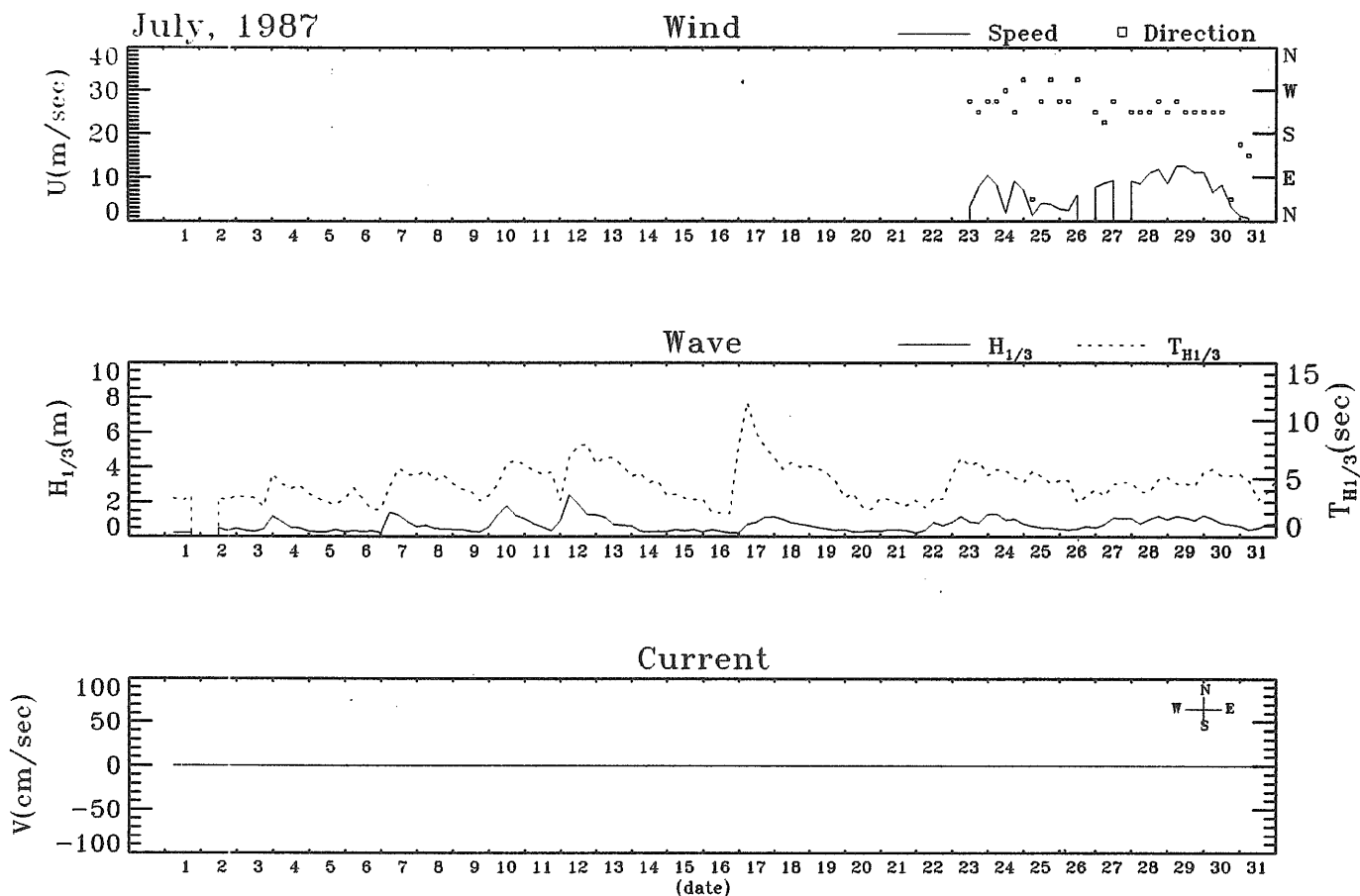




*** 月の統計量 <<< 1987 年 6 月 >>> ***

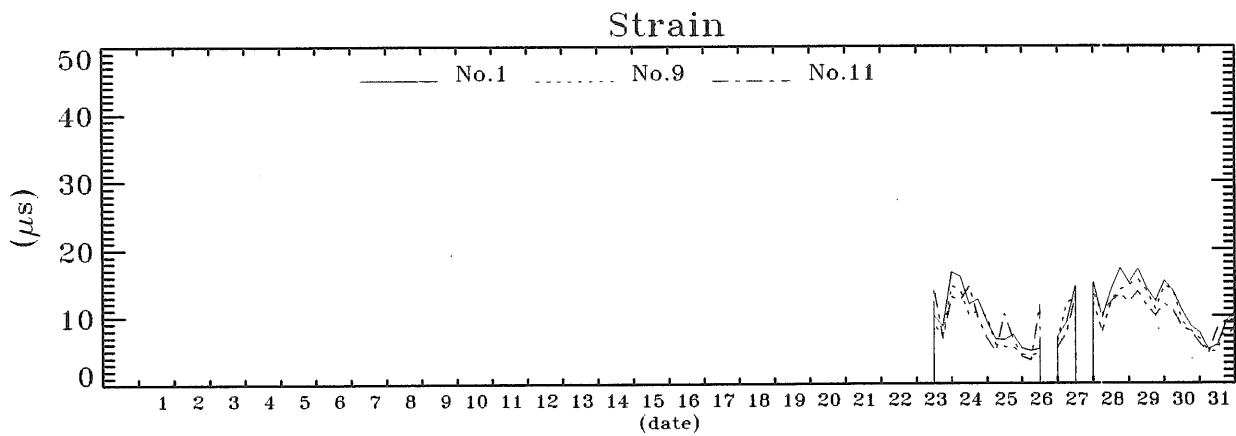
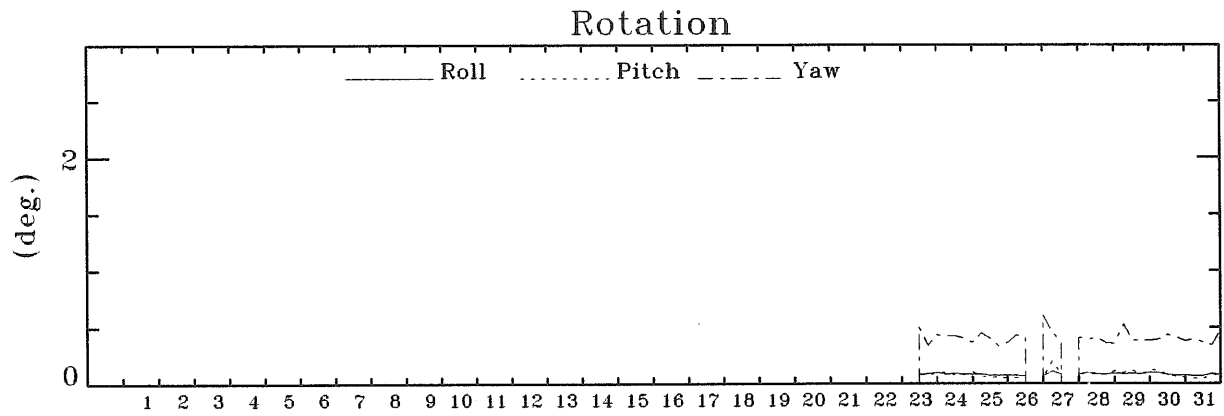
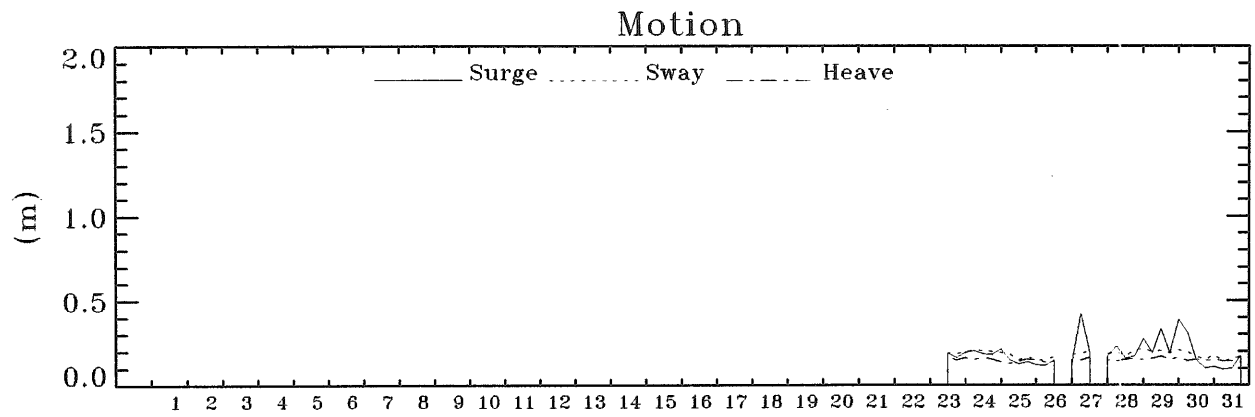
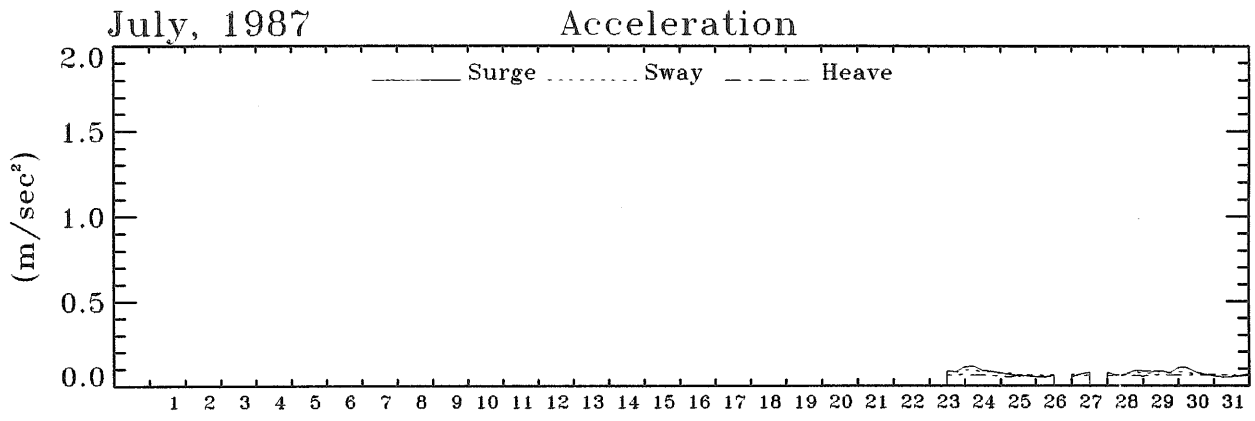
I T E M	:	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)		3.4069	13.0300	2.5933	99.17
Wave Hight($H_{1/3}$)		.4837	1.5600	.2813	100.00
Wave Period($T_{H1/3}$)		4.1400	8.1300	1.1989	100.00
Current Speed (mean)		---	---	---	.00
(every hour)		---	---	---	.00
Surge Acc.(Std.Dev.)		.0170	.0513	.0072	99.17
Sway Acc.(Std.Dev.)		.0230	.0680	.0113	99.17
Heave Acc.(Std.Dev.)		.0293	.1747	.0199	99.17
Surge Motion(Std.Dev.)		.0415	.1640	.0255	99.17
Sway Motion(Std.Dev.)		.0780	.3976	.0684	99.17
Heave Motion(Std.Dev.)		.0619	.3441	.0364	99.17
Roll Motion(Std.Dev.)		.0053	.0055	.0001	99.17
Pitch Motion(Std.Dev.)		.0120	.0123	.0001	99.17
Yaw Motion(Std.Dev.)		.4530	.9619	.1185	99.17
Strain No. 1(Std.Dev.)		2.6002	7.8350	1.5331	99.17
Strain No. 9(Std.Dev.)		2.4000	7.4870	1.3133	99.17
Strain No.11(Std.Dev.)		2.8795	14.1800	2.0224	99.17

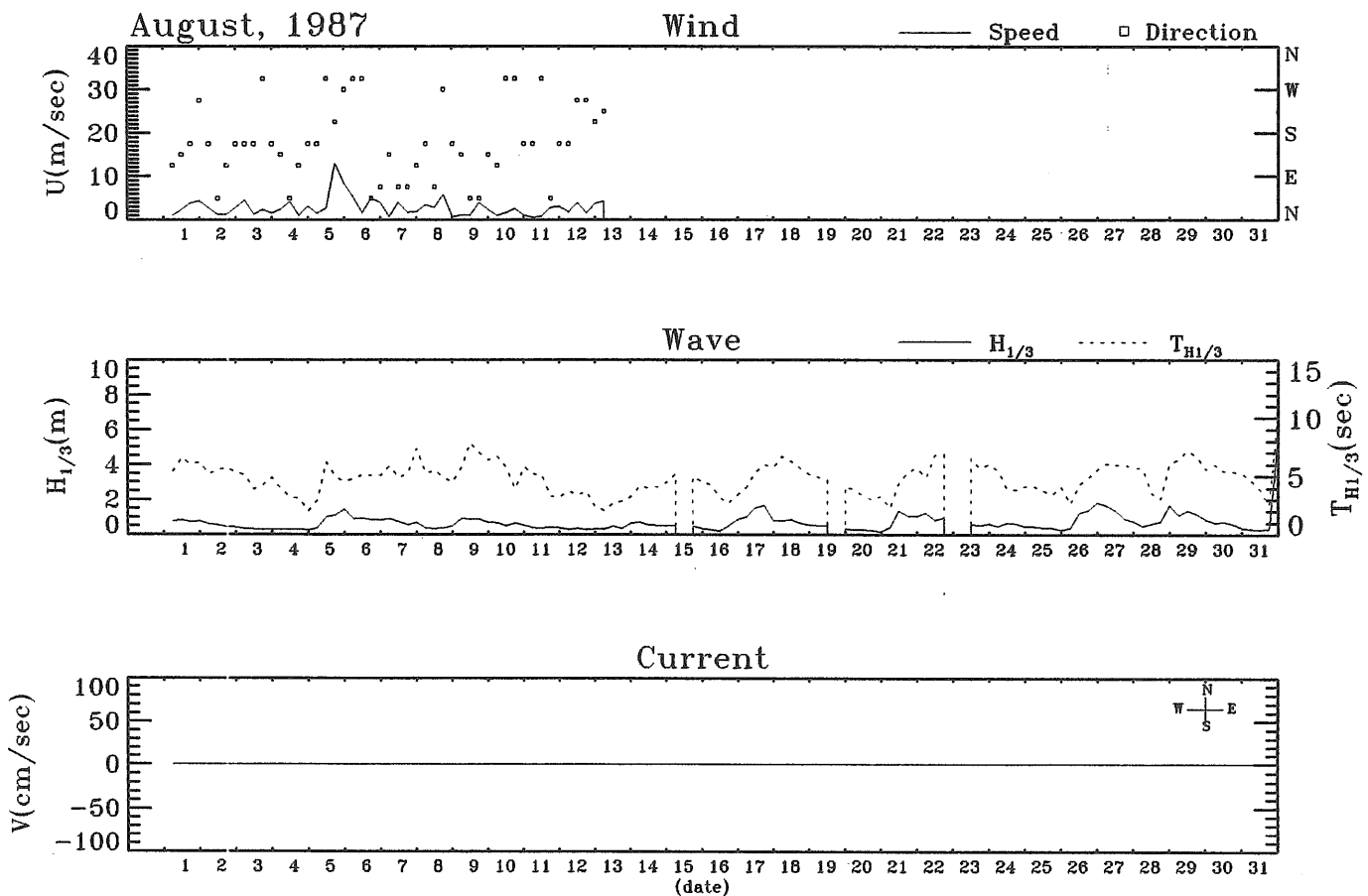




*** 月の統計量 <<< 1987 年 7 月 >>> ***

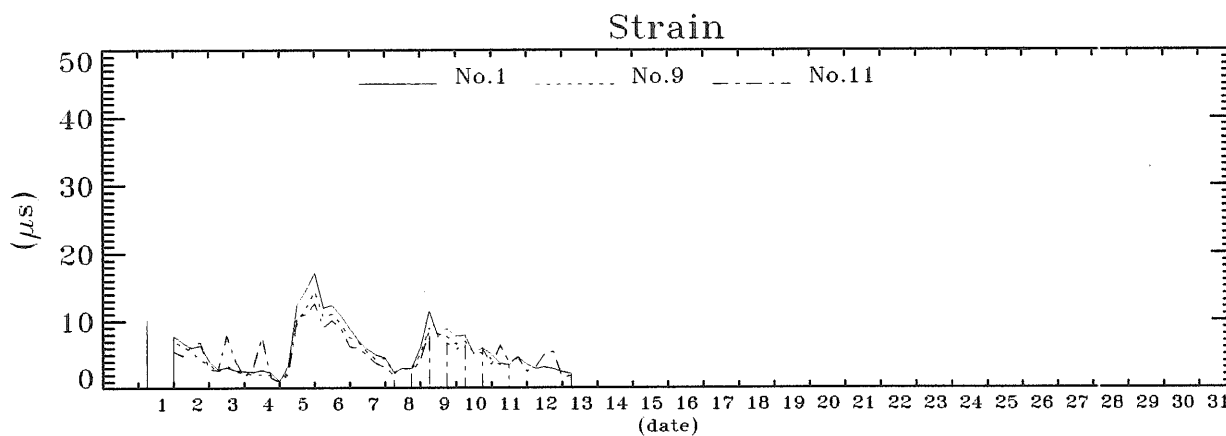
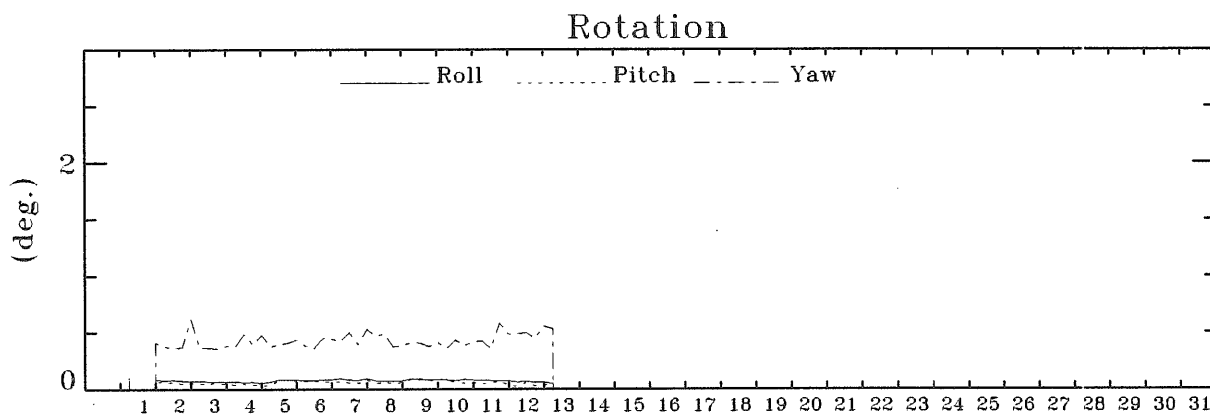
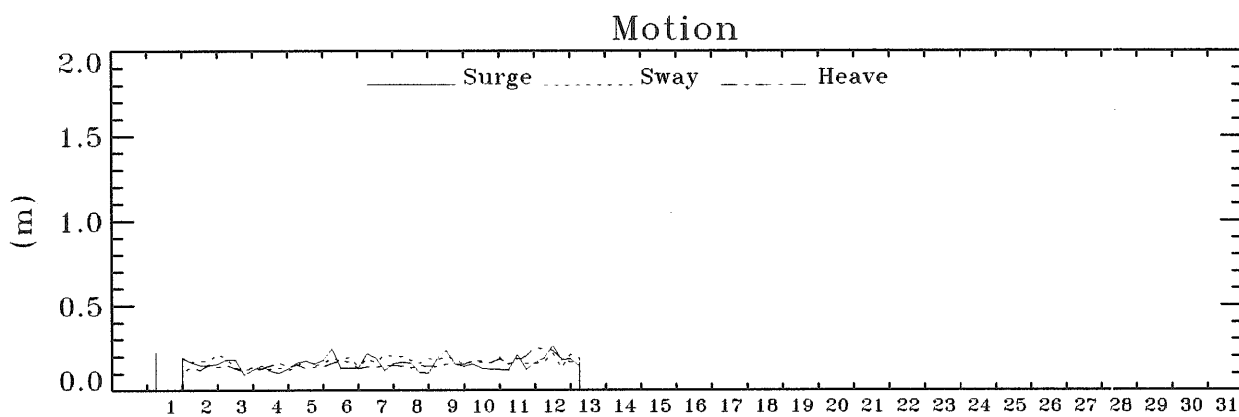
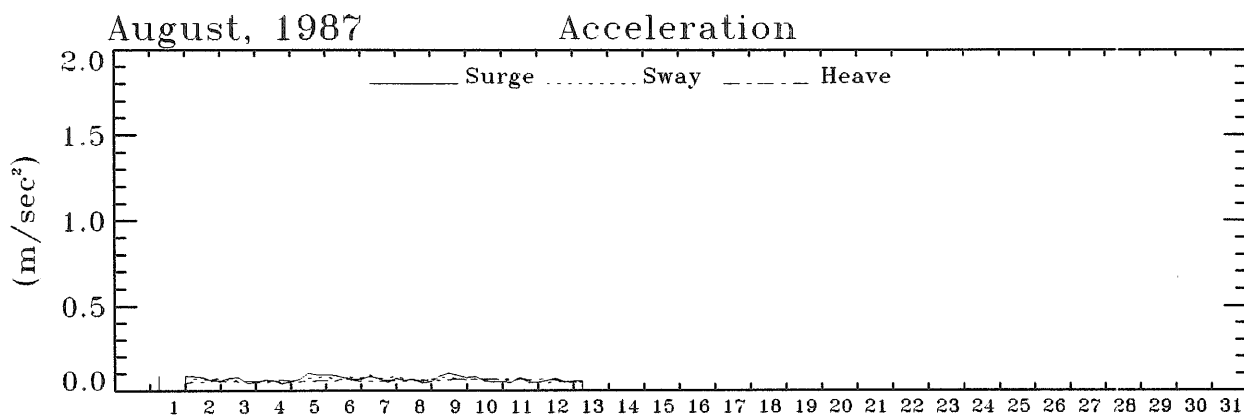
I T E M :	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	6.9727	12.5100	3.5975	24.19
Wave Hight($H_{1/3}$)	.6532	2.3900	.3937	98.39
Wave Period($T_H_{1/3}$)	4.6496	11.5700	1.5570	98.39
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.0732	.1145	.0179	26.61
Sway Acc.(Std.Dev.)	.0724	.0919	.0090	26.61
Heave Acc.(Std.Dev.)	.0609	.0662	.0035	26.61
Surge Motion(Std.Dev.)	.1855	.4184	.0784	25.81
Sway Motion(Std.Dev.)	.1816	.2153	.0205	25.81
Heave Motion(Std.Dev.)	.1500	.1690	.0091	25.81
Roll Motion(Std.Dev.)	.0783	.1037	.0101	26.61
Pitch Motion(Std.Dev.)	.0790	.1941	.0297	26.61
Yaw Motion(Std.Dev.)	.4070	.6023	.0558	26.61
Strain No. 1(Std.Dev.)	10.5892	17.1100	3.8874	26.61
Strain No. 9(Std.Dev.)	9.7069	15.4800	3.6391	26.61
Strain No.11(Std.Dev.)	9.3420	14.4700	3.2010	26.61

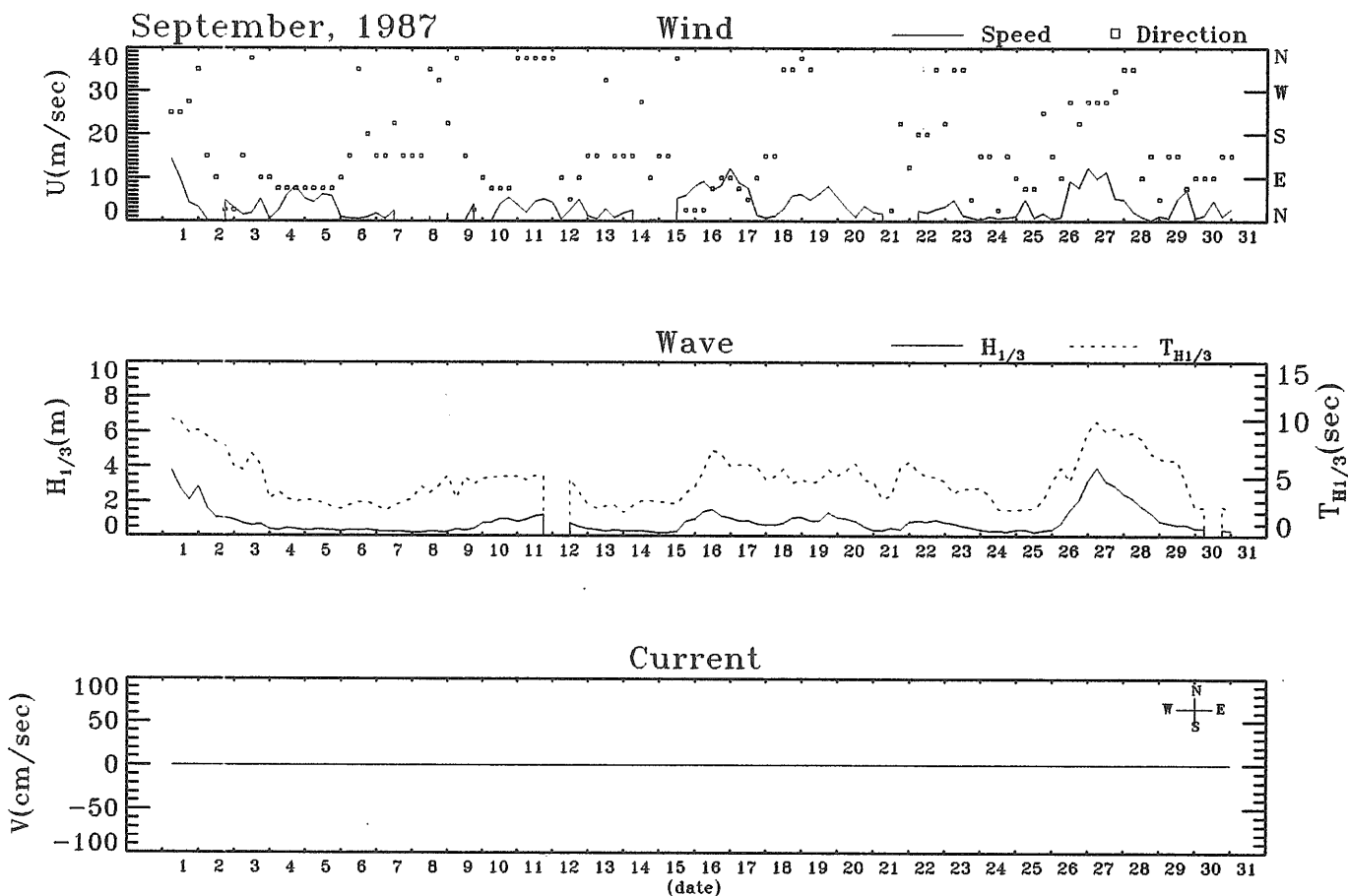




*** 月の統計量 <<< 1987 年 8 月 >>> ***

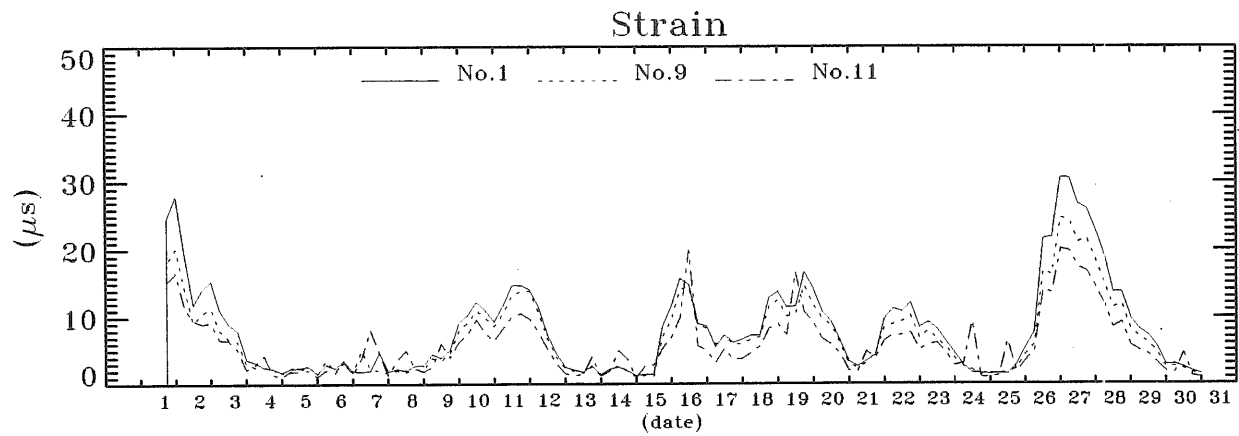
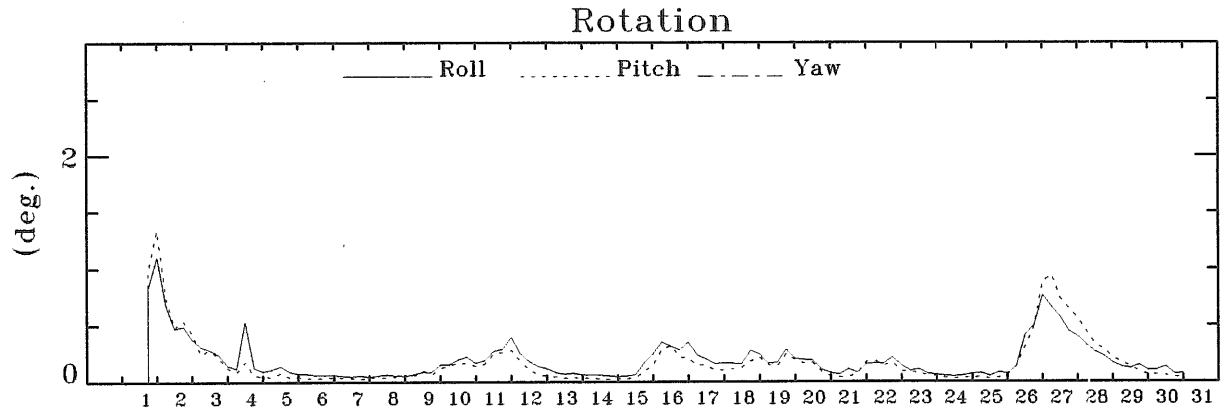
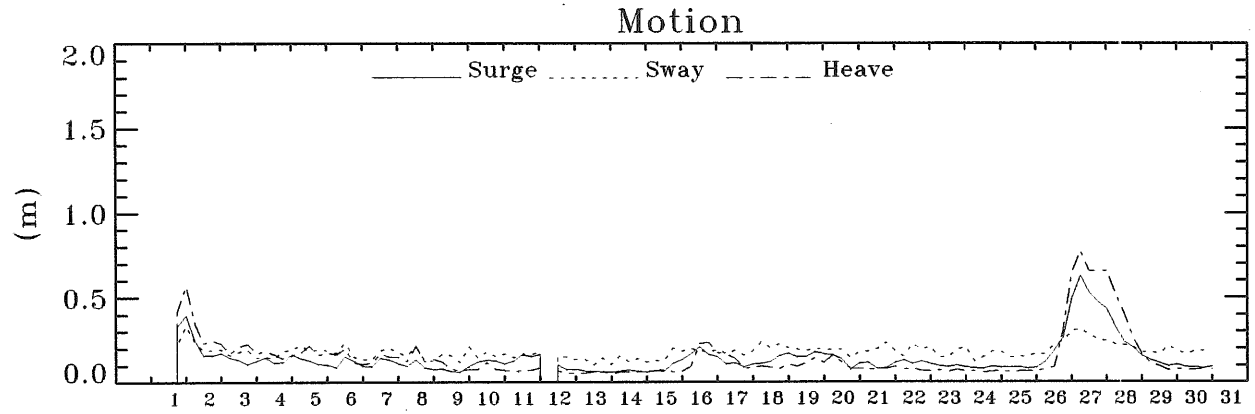
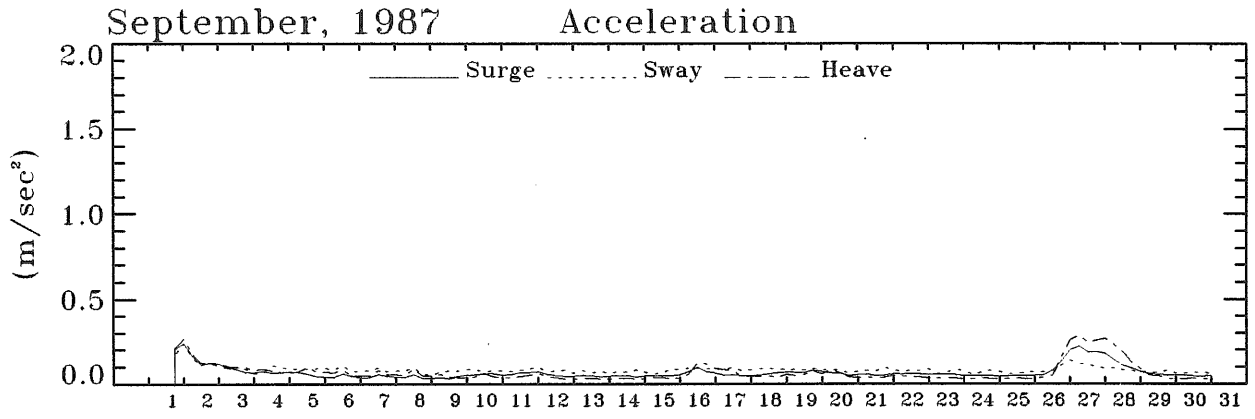
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	3.1356	16.6800	2.8756	40.32
Wave Hight($H_{1/3}$)	.6826	5.4600	.5686	96.77
Wave Period($T_{H_{1/3}}$)	4.8487	10.1200	1.3554	96.77
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.0742	.4712	.0602	38.71
Sway Acc.(Std.Dev.)	.0692	.2938	.0346	38.71
Heave Acc.(Std.Dev.)	.0614	.1366	.0130	38.71
Surge Motion(Std.Dev.)	.1812	1.3030	.1680	38.71
Sway Motion(Std.Dev.)	.1790	.5904	.0654	38.71
Heave Motion(Std.Dev.)	.1624	.4666	.0531	38.71
Roll Motion(Std.Dev.)	.0739	.1501	.0150	38.71
Pitch Motion(Std.Dev.)	.0633	.2782	.0358	38.71
Yaw Motion(Std.Dev.)	.4271	.6160	.0636	37.10
Strain No. 1(Std.Dev.)	6.4399	33.9100	5.4139	38.71
Strain No. 9(Std.Dev.)	6.3419	33.6000	5.3435	33.06
Strain No.11(Std.Dev.)	5.6810	24.4300	3.9626	36.29

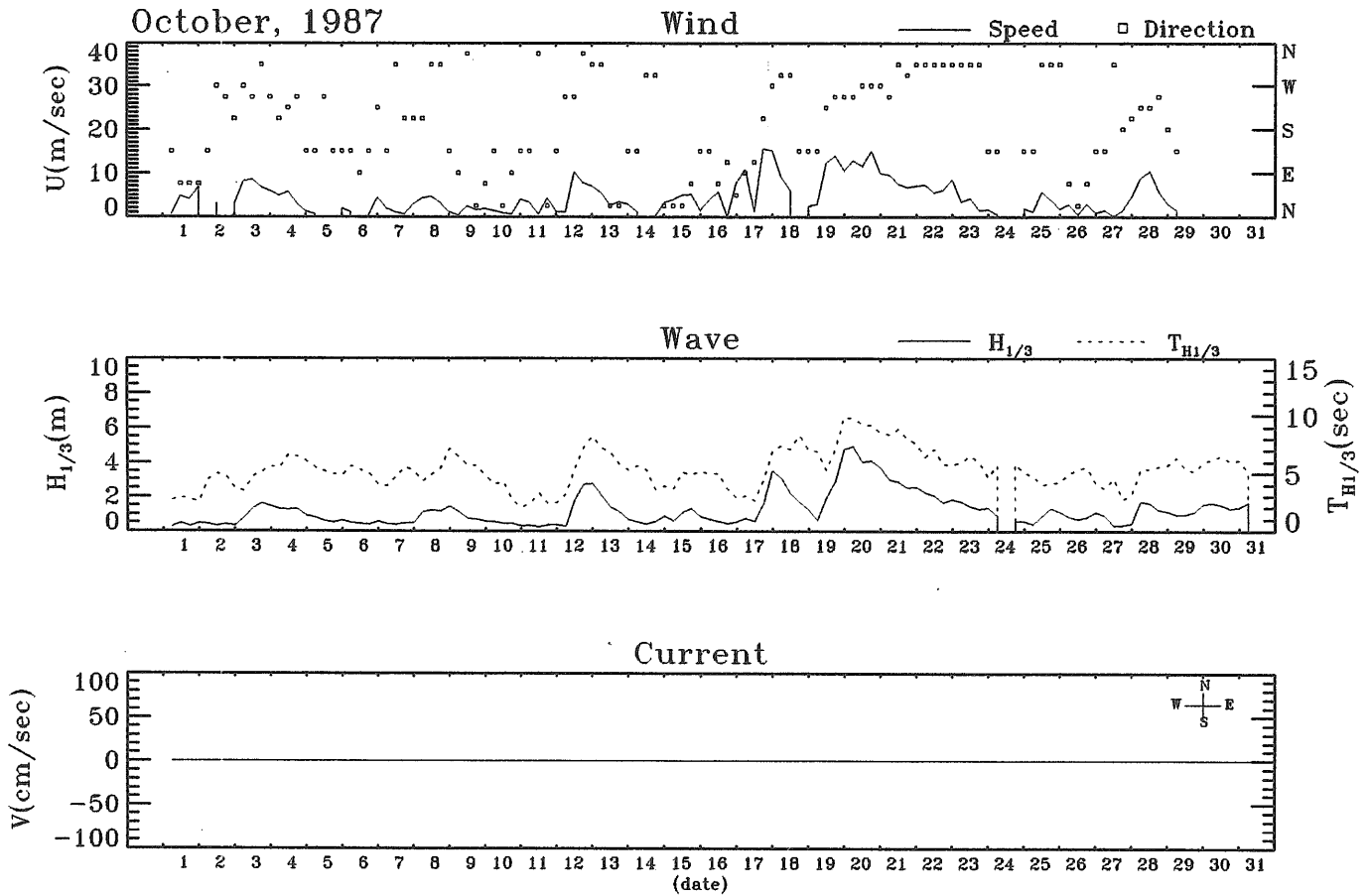




*** 月の統計量 <<< 1987 年 9 月 >>> ***

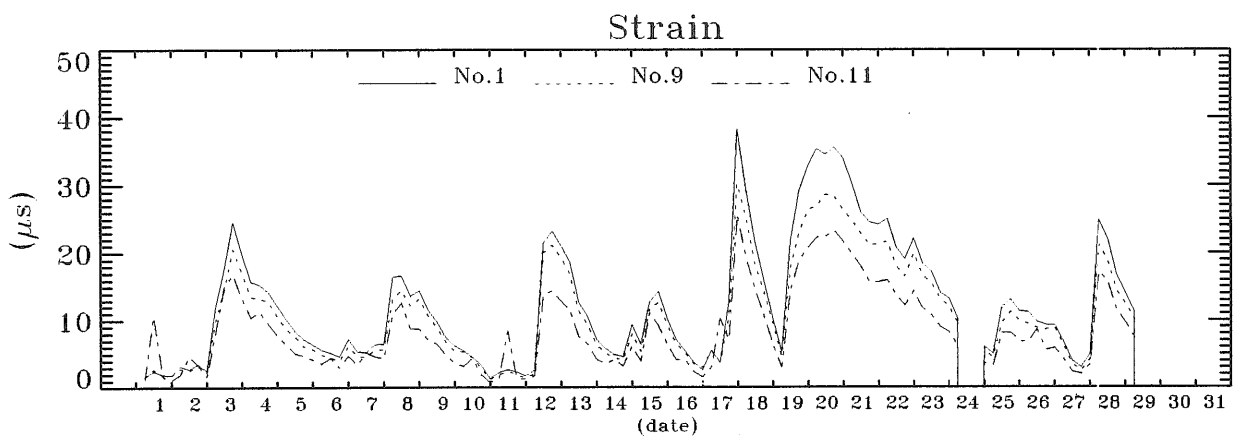
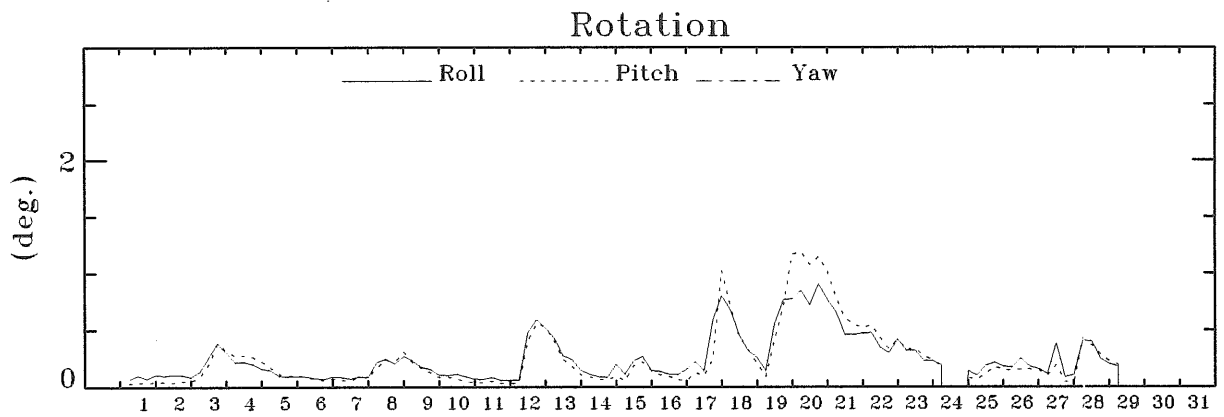
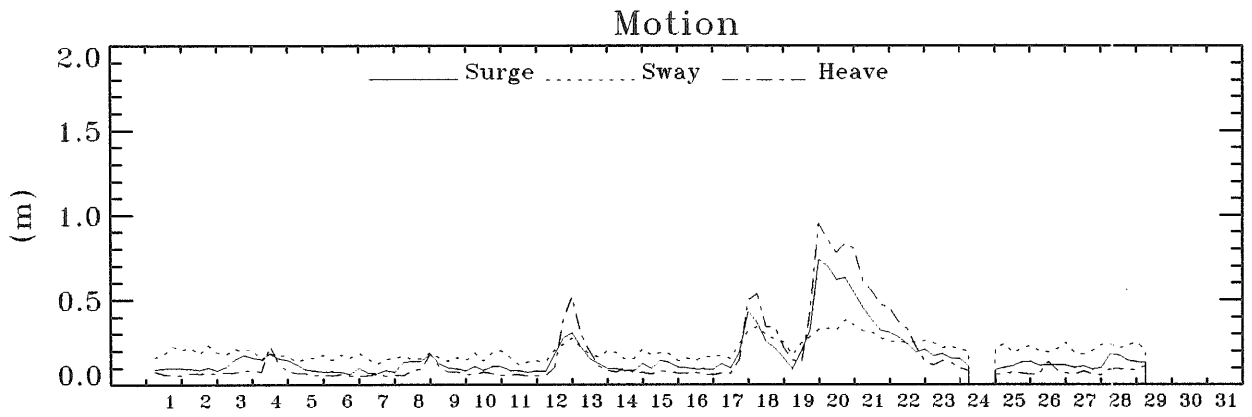
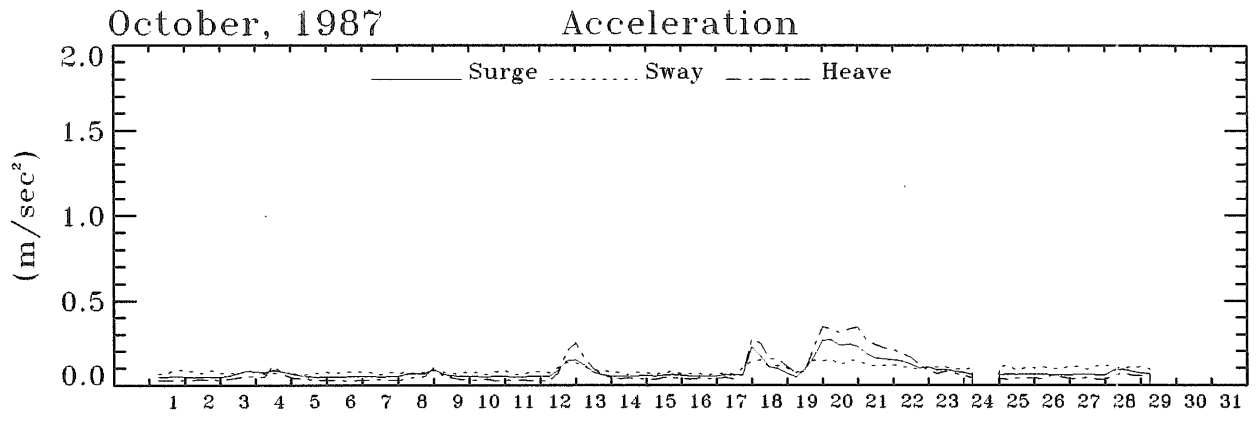
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	3.2182	14.3500	3.2365	100.00
Wave Hight($H_{1/3}$)	.8184	3.9300	.7595	97.50
Wave Period($T_{H_{1/3}}$)	4.8368	10.0200	2.0493	97.50
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.0667	.2370	.0403	98.33
Sway Acc.(Std.Dev.)	.0839	.2396	.0234	98.33
Heave Acc.(Std.Dev.)	.0700	.2843	.0583	98.33
Surge Motion(Std.Dev.)	.1392	.6247	.0959	97.50
Sway Motion(Std.Dev.)	.1817	.3359	.0397	97.50
Heave Motion(Std.Dev.)	.1505	.7716	.1428	97.50
Roll Motion(Std.Dev.)	.1896	1.1020	.1788	98.33
Pitch Motion(Std.Dev.)	.1744	1.3410	.2204	98.33
Yaw Motion(Std.Dev.)	---	---	---	.00
Strain No. 1(Std.Dev.)	8.1356	30.5300	6.8883	98.33
Strain No. 9(Std.Dev.)	6.9931	24.6800	5.4609	98.33
Strain No.11(Std.Dev.)	5.9998	20.0700	4.4647	98.33

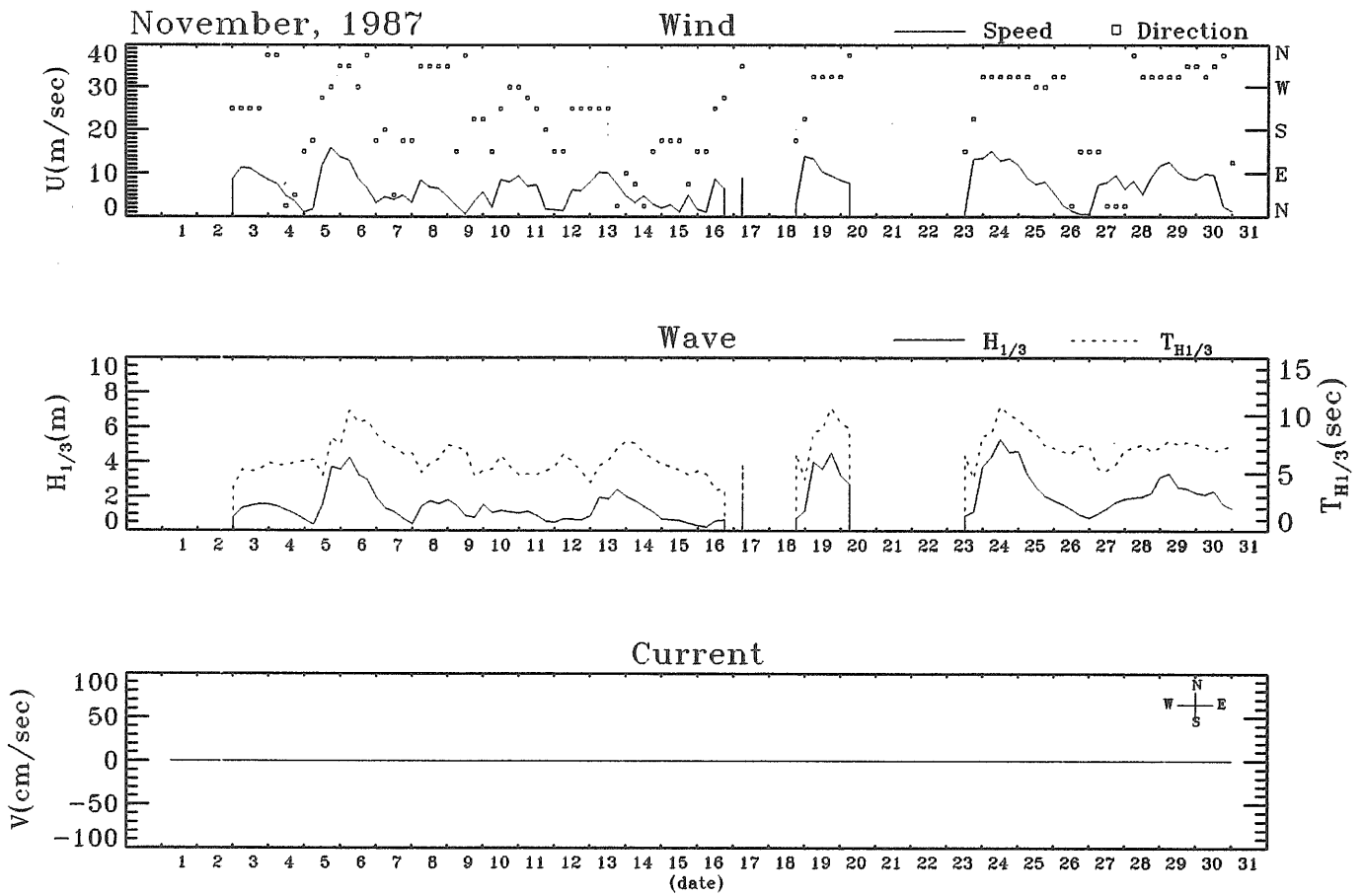




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***** 月の統計量 <<< 1987 年 10 月 >>> *****
 I T E M : Mean Maximum Std.Dev. 測得率(%)

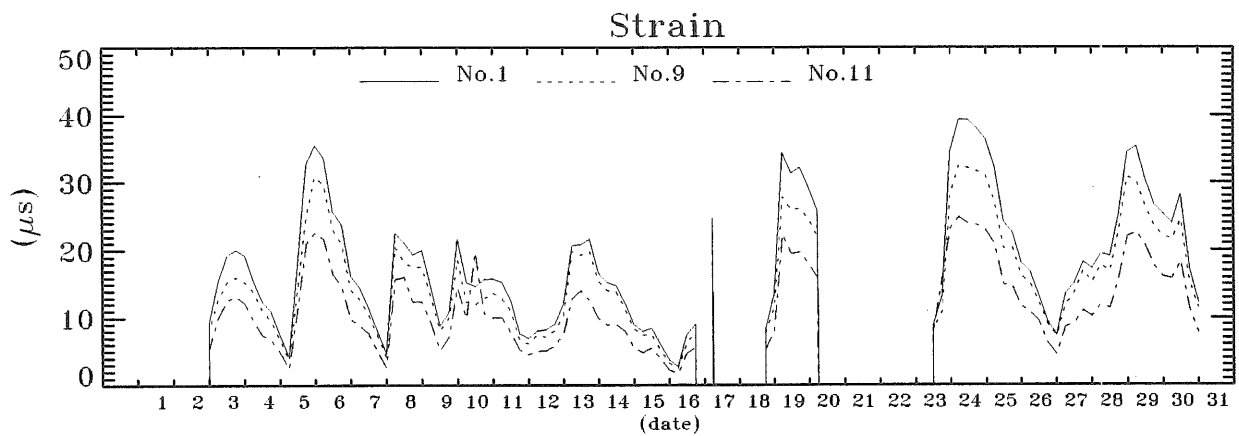
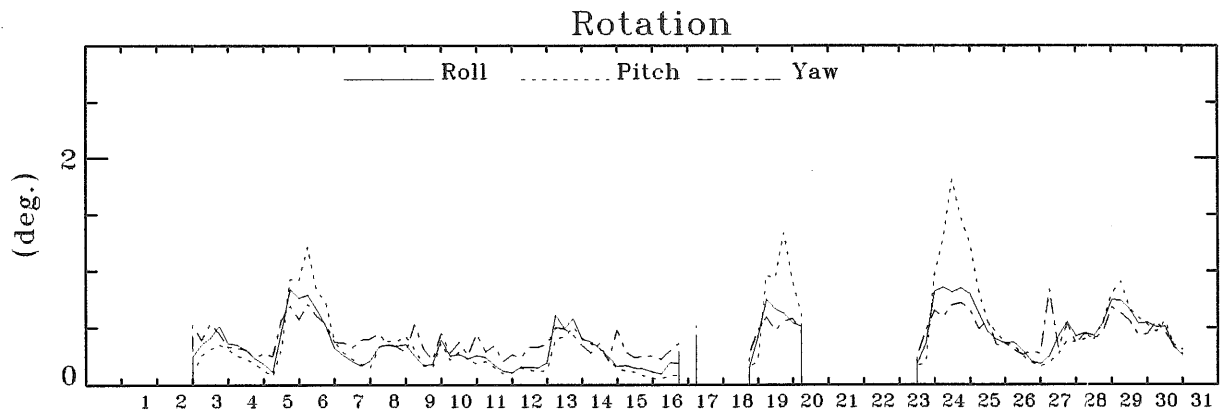
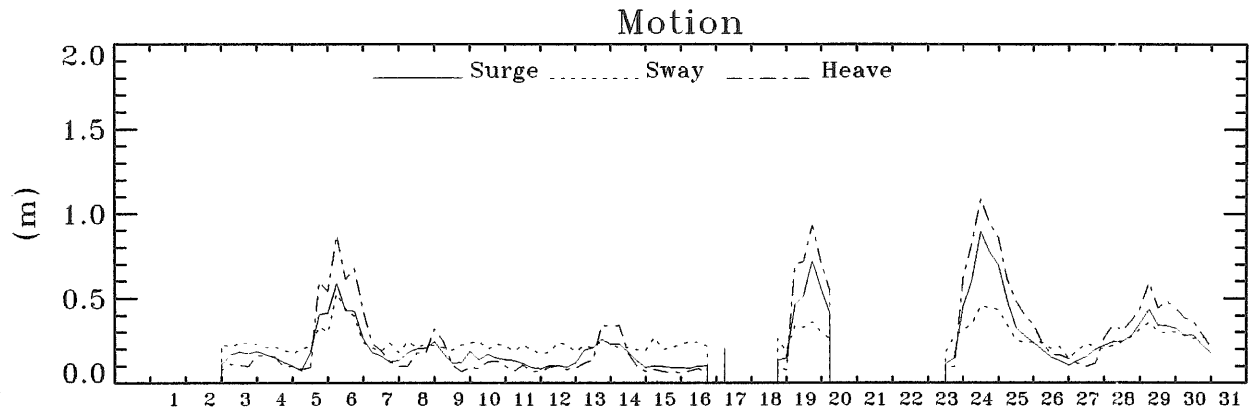
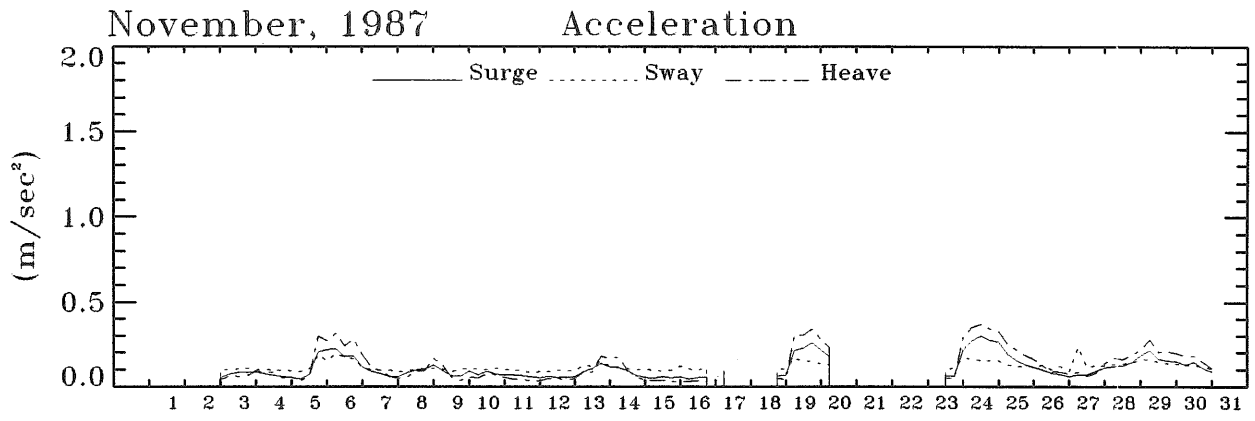
 Wind Speed (mean) 4.2064 15.5200 3.8049 89.52
 Wave Hight($H_{1/3}$) 1.1957 4.9000 .9602 96.77
 Wave Period($T_{H_{1/3}}$) 5.3544 9.9000 1.6665 96.77
 Current Speed (mean) --- --- --- .00
 (every hour) --- --- --- .00
 Surge Acc.(Std.Dev.) .0789 .2636 .0491 89.52
 Sway Acc.(Std.Dev.) .0891 .1513 .0227 89.52
 Heave Acc.(Std.Dev.) .0790 .3441 .0805 89.52
 Surge Motion(Std.Dev.) .1644 .7364 .1303 89.52
 Sway Motion(Std.Dev.) .2057 .3809 .0545 89.52
 Heave Motion(Std.Dev.) .1640 .9495 .1950 89.52
 Roll Motion(Std.Dev.) .2492 .9040 .2014 89.52
 Pitch Motion(Std.Dev.) .2489 1.1930 .2635 89.52
 Yaw Motion(Std.Dev.) --- --- --- .00
 Strain No. 1(Std.Dev.) 12.3960 38.1700 9.0668 89.52
 Strain No. 9(Std.Dev.) 10.7568 30.2400 7.4243 89.52
 Strain No.11(Std.Dev.) 8.4442 25.5800 5.8463 89.52
 =====

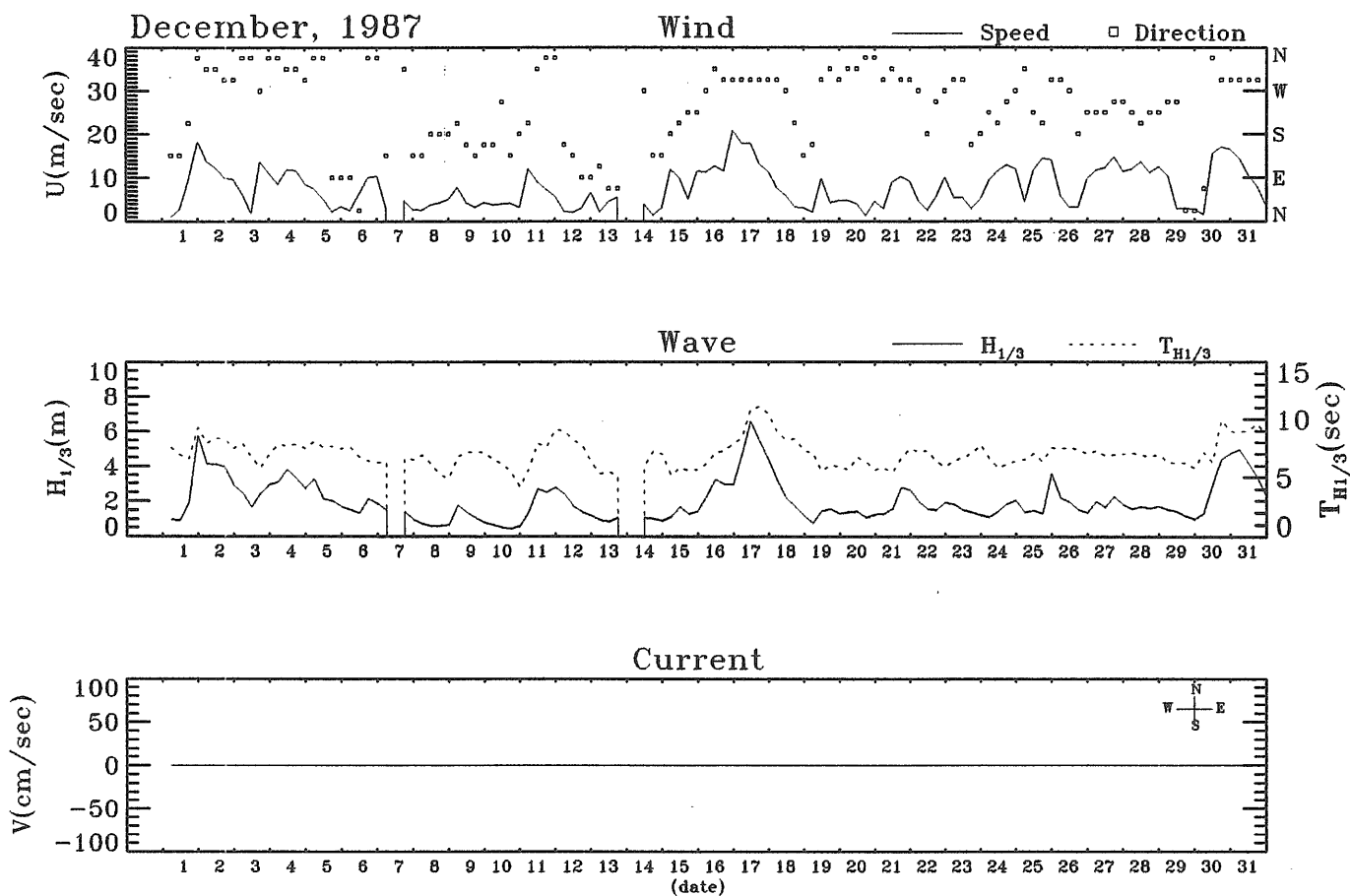




*** 月の統計量 <<< 1987 年 11 月 >>> ***

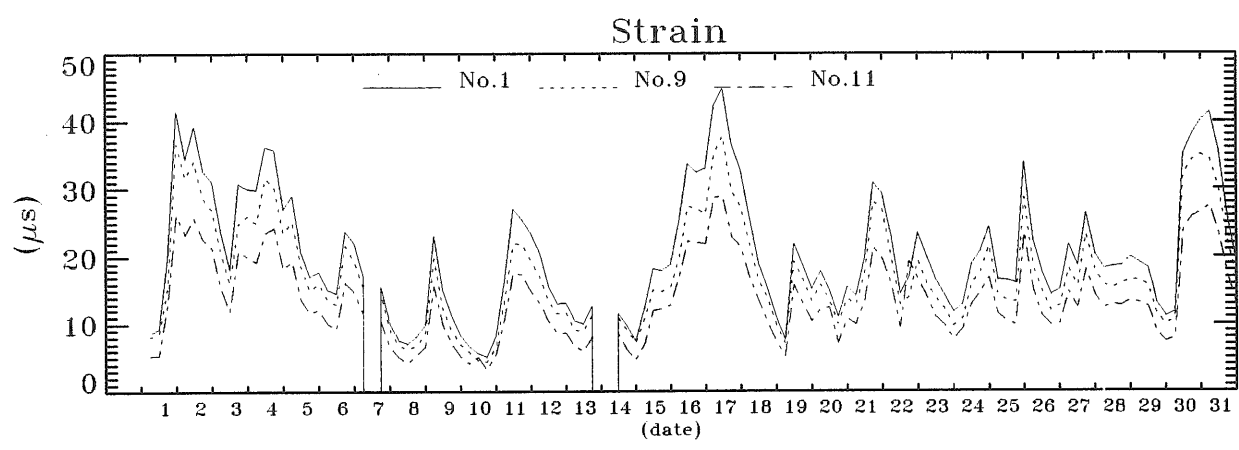
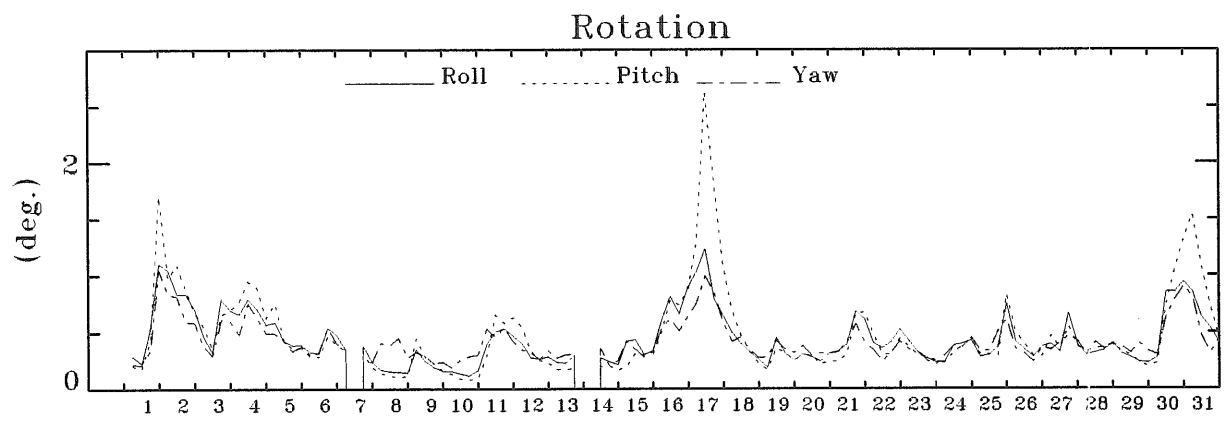
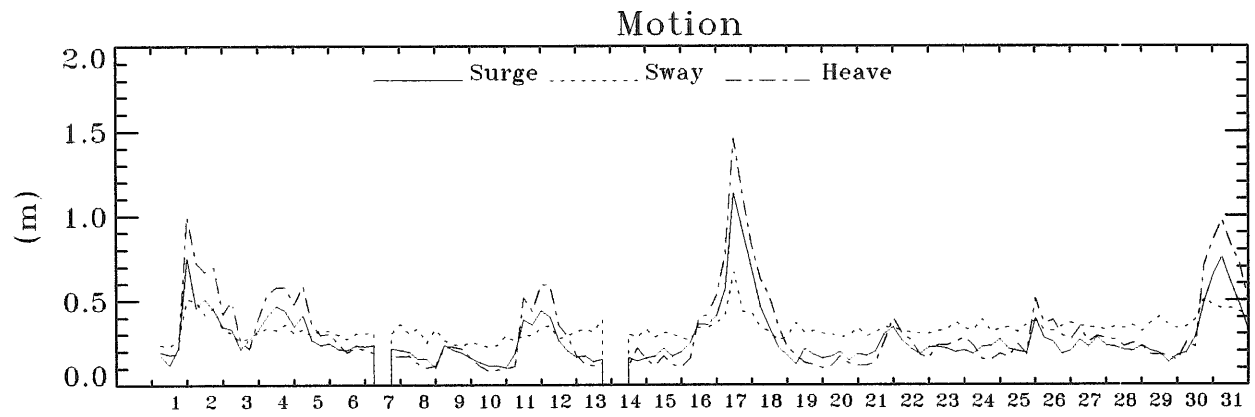
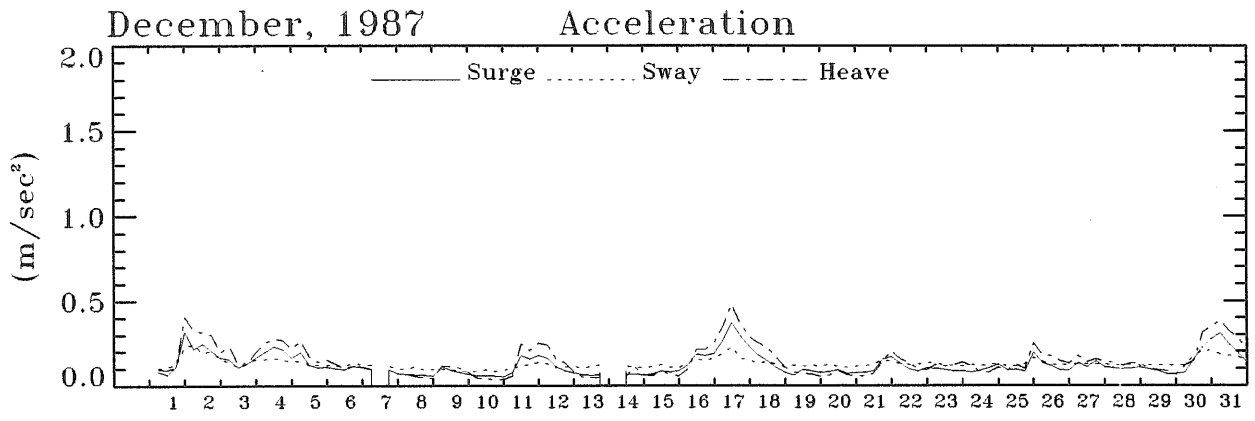
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	6.9005	15.8800	3.9568	79.17
Wave Hight($H_{1/3}$)	1.7566	5.2900	1.1466	79.17
Wave Period($T_{H_{1/3}}$)	6.6939	10.7900	1.5795	79.17
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.1093	.2975	.0622	79.17
Sway Acc.(Std.Dev.)	.1184	.2334	.0274	79.17
Heave Acc.(Std.Dev.)	.1282	.3691	.0953	79.17
Surge Motion(Std.Dev.)	.2378	.8938	.1676	79.17
Sway Motion(Std.Dev.)	.2509	.5320	.0693	79.17
Heave Motion(Std.Dev.)	.2775	1.0870	.2485	79.17
Roll Motion(Std.Dev.)	.3844	.8540	.2088	79.17
Pitch Motion(Std.Dev.)	.4192	1.8090	.3497	79.17
Yaw Motion(Std.Dev.)	.4158	.8364	.1409	79.17
Strain No. 1(Std.Dev.)	18.1887	39.3300	9.3047	79.17
Strain No. 9(Std.Dev.)	15.8226	32.5300	7.7322	79.17
Strain No.11(Std.Dev.)	11.8033	24.8900	6.0281	79.17

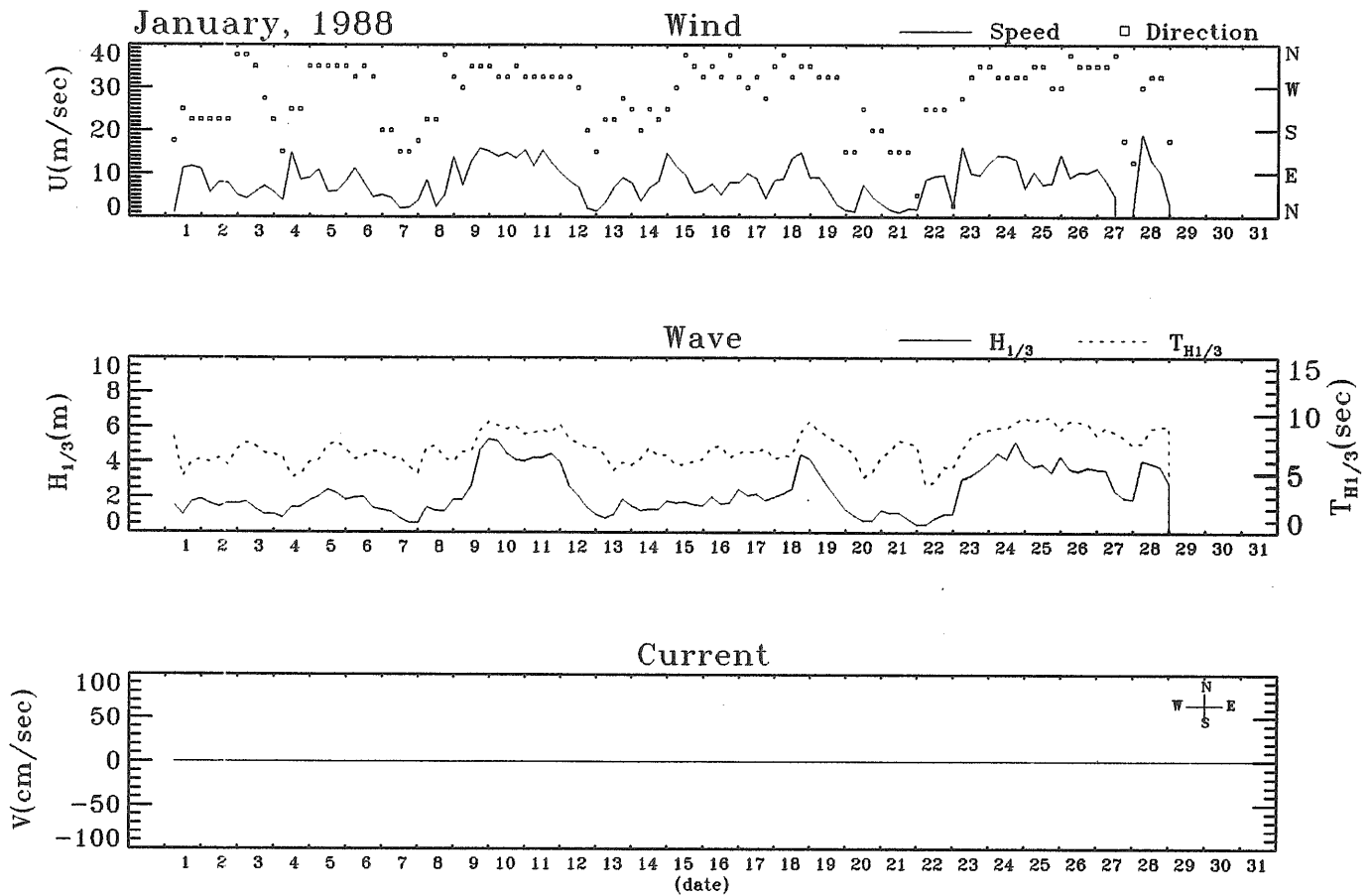




*** 月の統計量 <<< 1987 年 12 月 >>> ***

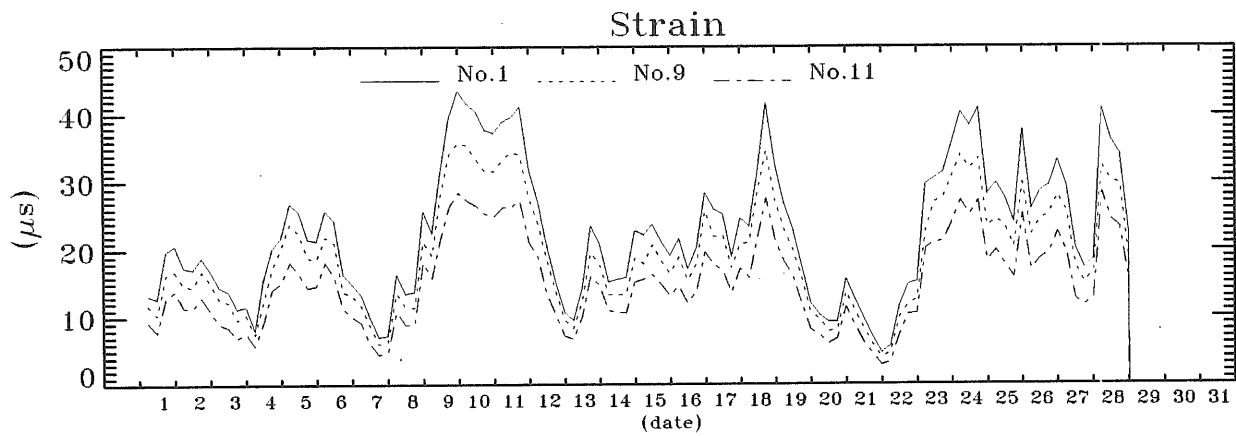
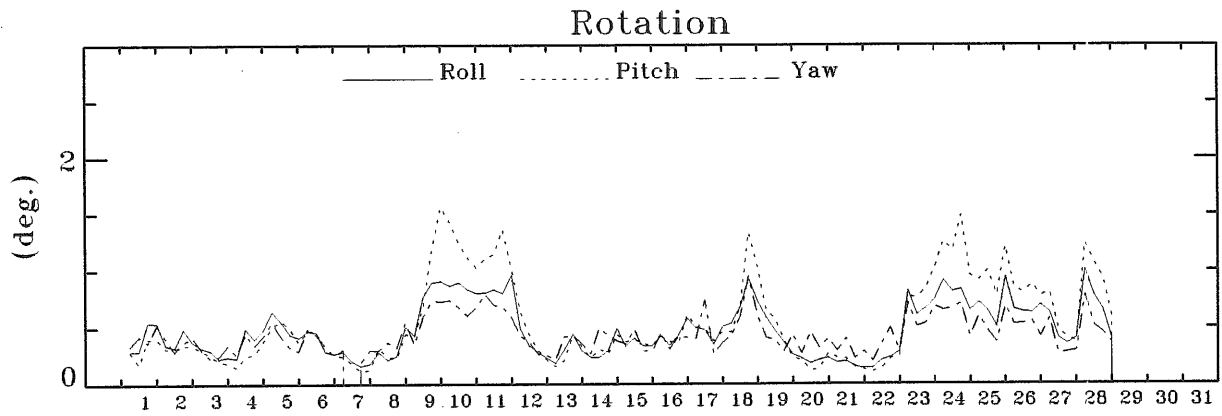
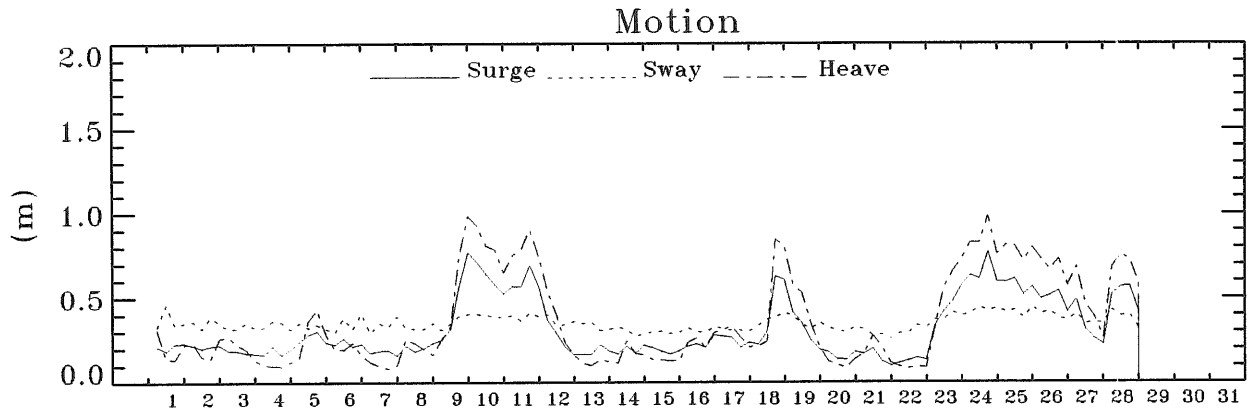
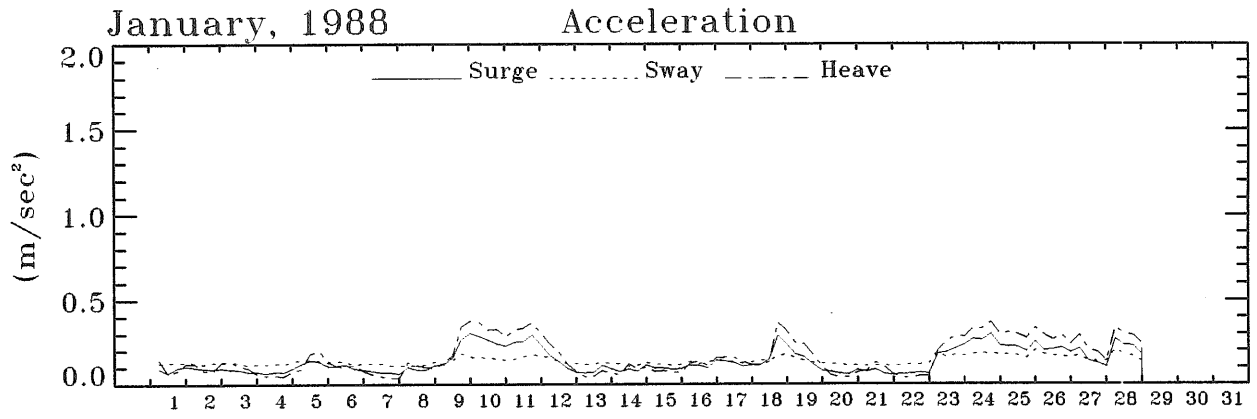
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	7.6421	20.8100	4.5620	97.58
Wave Hight($H_{1/3}$)	1.9893	6.5400	1.1858	97.58
Wave Period($T_{H_{1/3}}$)	7.0731	11.0800	1.2126	97.58
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.1219	.3677	.0633	97.58
Sway Acc.(Std.Dev.)	.1302	.2447	.0297	97.58
Heave Acc.(Std.Dev.)	.1486	.4747	.0917	97.58
Surge Motion(Std.Dev.)	.2754	1.1300	.1641	97.58
Sway Motion(Std.Dev.)	.3313	.6690	.0646	97.58
Heave Motion(Std.Dev.)	.3215	1.4580	.2428	97.58
Roll Motion(Std.Dev.)	.4337	1.2290	.2307	97.58
Pitch Motion(Std.Dev.)	.4775	2.6200	.3819	97.58
Yaw Motion(Std.Dev.)	.4182	1.0450	.1693	97.58
Strain No. 1(Std.Dev.)	20.3239	44.7900	9.2740	97.58
Strain No. 9(Std.Dev.)	17.5127	37.8200	7.9005	97.58
Strain No.11(Std.Dev.)	13.7103	28.8400	6.2292	97.58

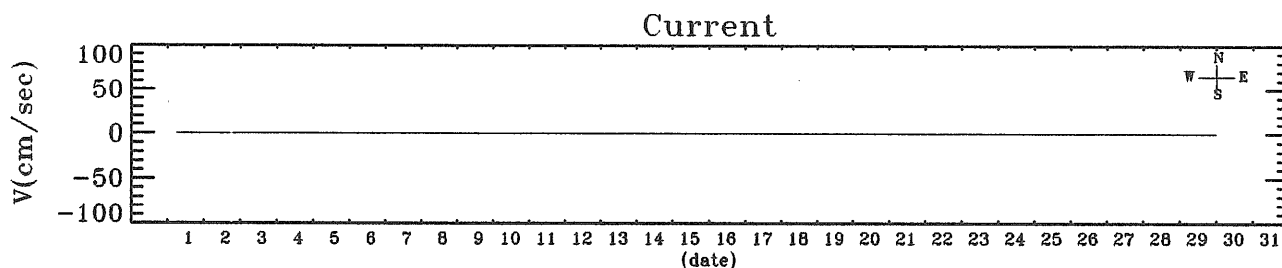
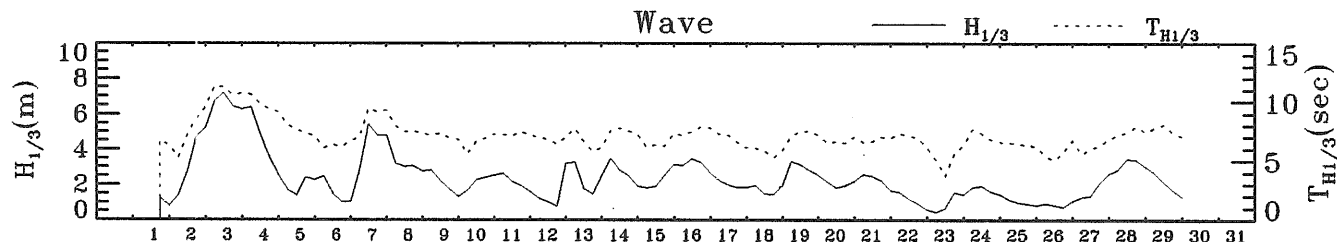
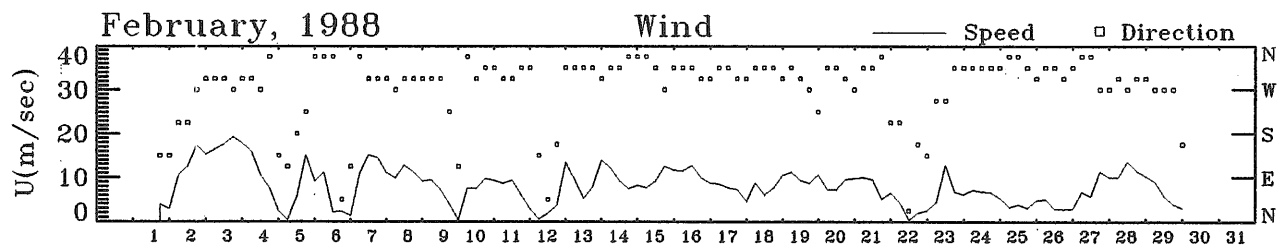




*** 月の統計量 <<< 1988 年 1 月 >>> ***

I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	8.0544	19.0600	4.2547	90.32
Wave Hight(H _{1/3})	2.2593	5.2700	1.2606	90.32
Wave Period(T _{H1/3})	7.2325	9.8300	1.3817	90.32
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.1374	.3034	.0708	90.32
Sway Acc.(Std.Dev.)	.1388	.2051	.0236	90.32
Heave Acc.(Std.Dev.)	.1649	.3775	.1039	90.32
Surge Motion(Std.Dev.)	.3144	.7699	.1755	90.32
Sway Motion(Std.Dev.)	.3500	.4587	.0440	90.32
Heave Motion(Std.Dev.)	.3688	.9841	.2707	90.32
Roll Motion(Std.Dev.)	.4726	1.0080	.2318	90.32
Pitch Motion(Std.Dev.)	.5462	1.5710	.3710	90.32
Yaw Motion(Std.Dev.)	.4400	.9477	.1585	89.52
Strain No. 1(Std.Dev.)	22.5387	43.5500	9.8527	90.32
Strain No. 9(Std.Dev.)	19.2896	35.8300	8.2182	90.32
Strain No.11(Std.Dev.)	15.1755	28.4600	6.6288	90.32

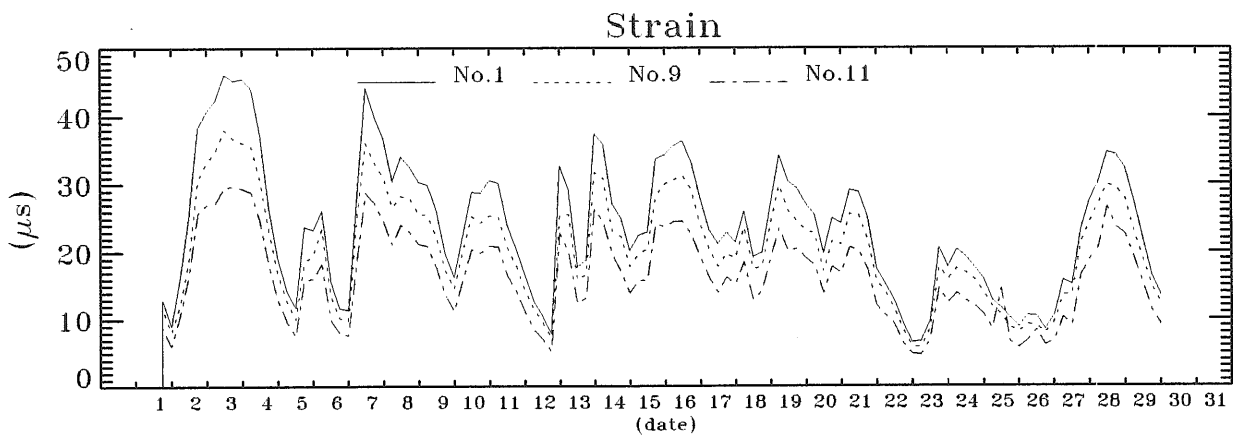
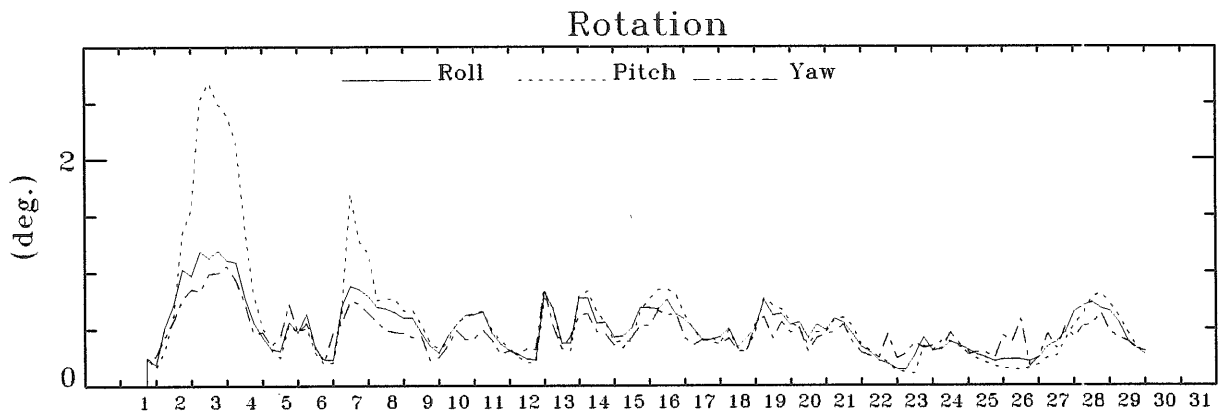
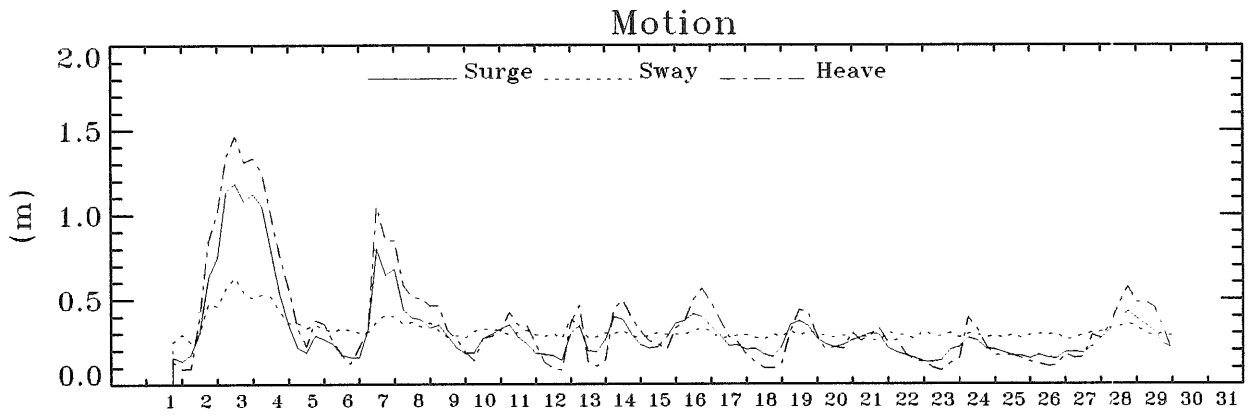
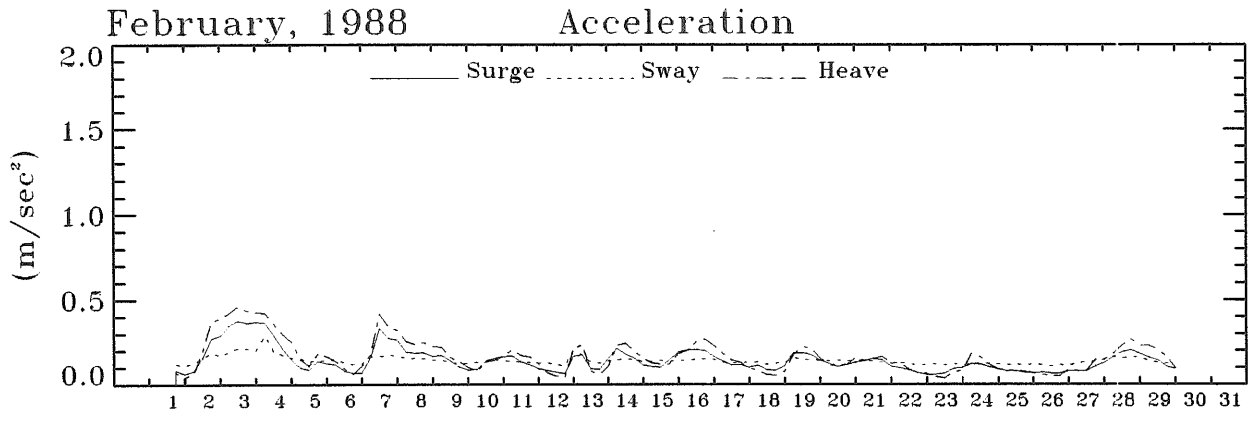


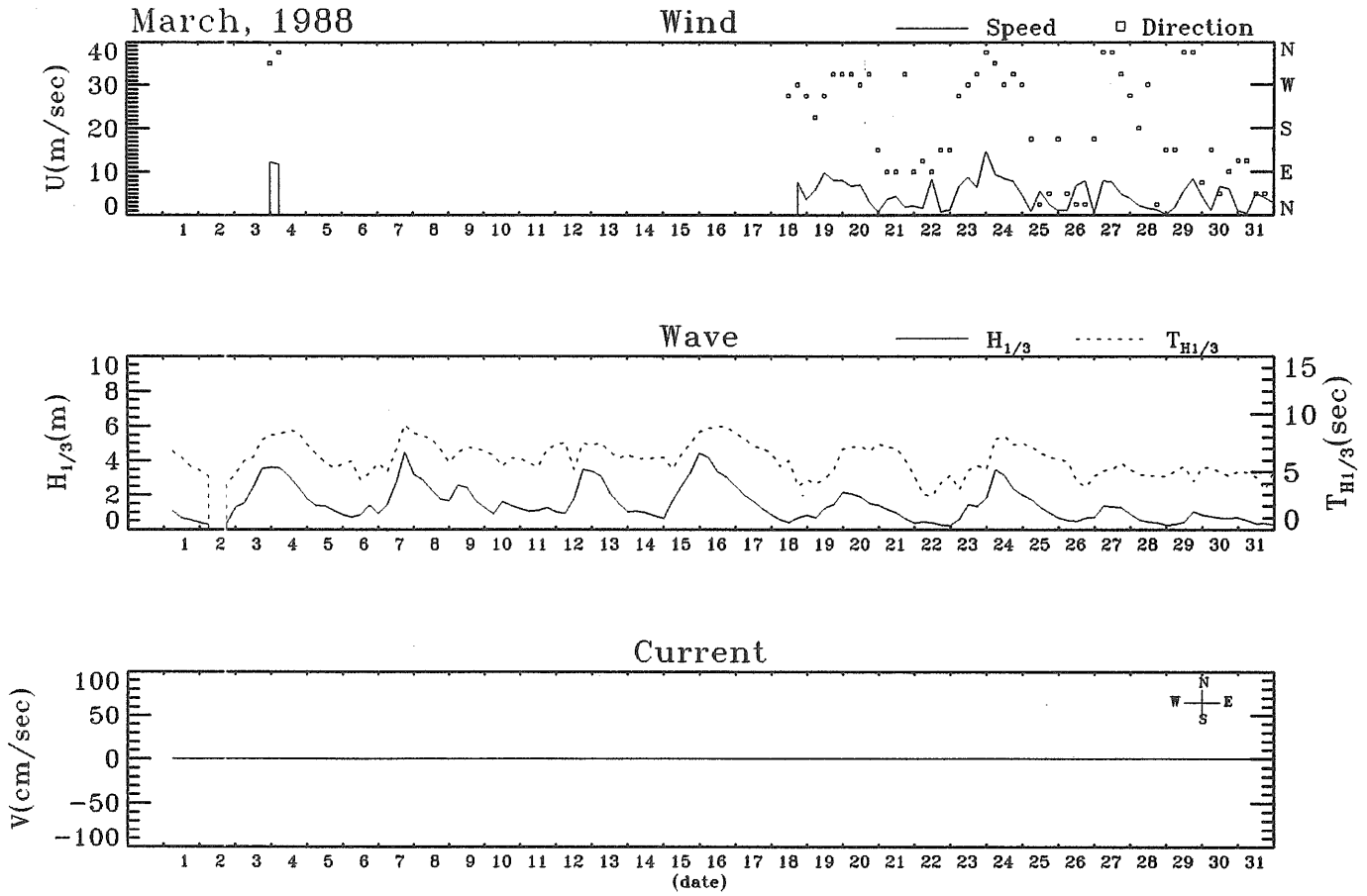


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 *** 月の統計量 <<< 1988 年 2 月 >>> ***
 I T E M : Mean Maximum Std.Dev. 測得率(%)
 =====

I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	8.1412	19.2000	4.2032	98.28
Wave Hight($H_{1/3}$)	2.3618	7.1600	1.3518	98.28
Wave Period($T_{H_{1/3}}$)	7.1662	11.3400	1.2583	98.28
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.1404	.3756	.0734	98.28
Sway Acc.(Std.Dev.)	.1411	.2902	.0266	98.28
Heave Acc.(Std.Dev.)	.1649	.4610	.0991	98.28
Surge Motion(Std.Dev.)	.3146	1.1800	.2157	98.28
Sway Motion(Std.Dev.)	.3193	.6326	.0673	98.28
Heave Motion(Std.Dev.)	.3604	1.4620	.2907	98.28
Roll Motion(Std.Dev.)	.5091	1.1930	.2355	98.28
Pitch Motion(Std.Dev.)	.5927	2.6840	.4959	98.28
Yaw Motion(Std.Dev.)	.4608	1.0560	.1770	98.28
Strain No. 1(Std.Dev.)	23.8406	46.1300	9.7802	98.28
Strain No. 9(Std.Dev.)	20.5263	38.0000	7.9435	98.28
Strain No.11(Std.Dev.)	16.4238	29.6900	6.5573	98.28

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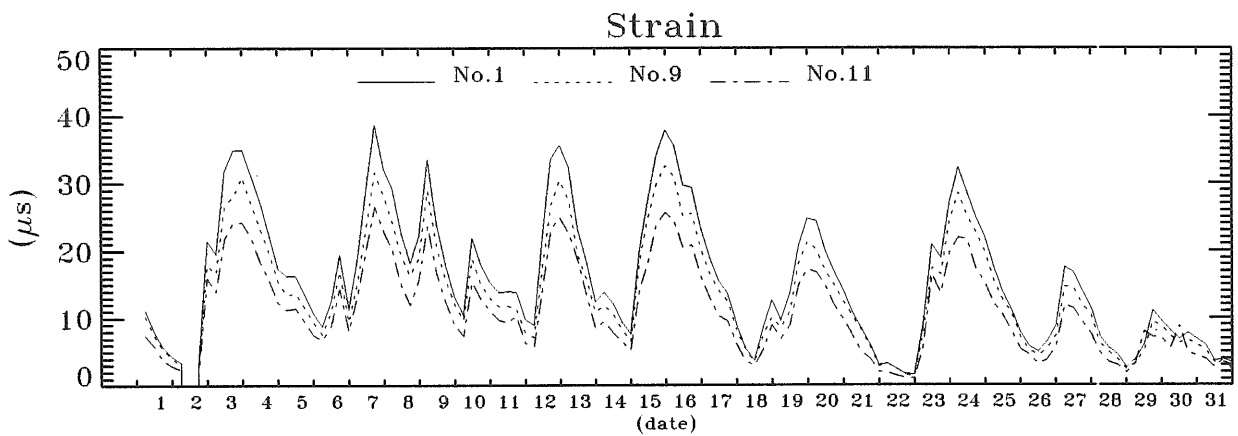
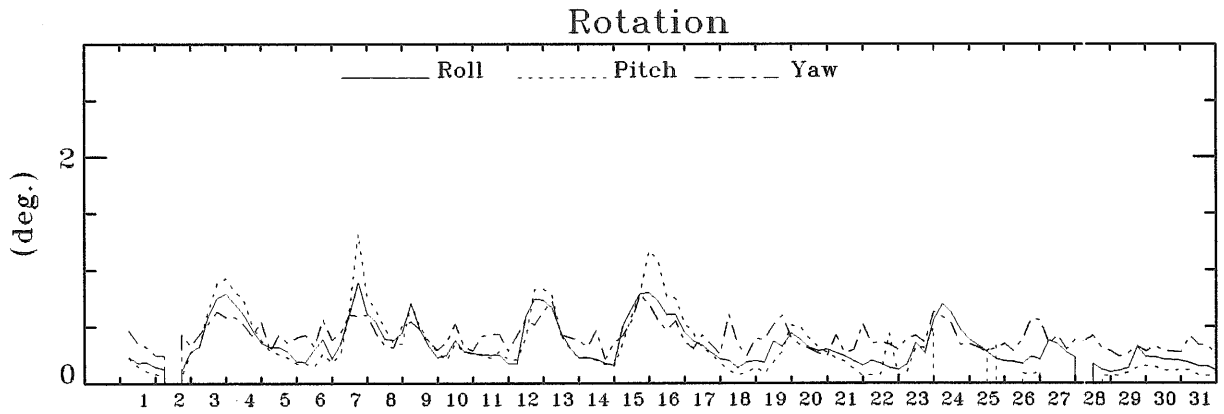
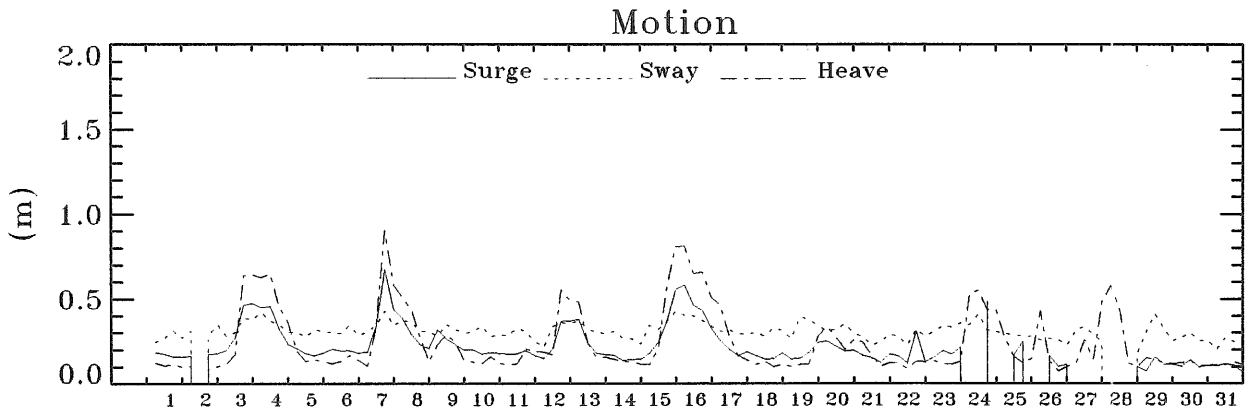
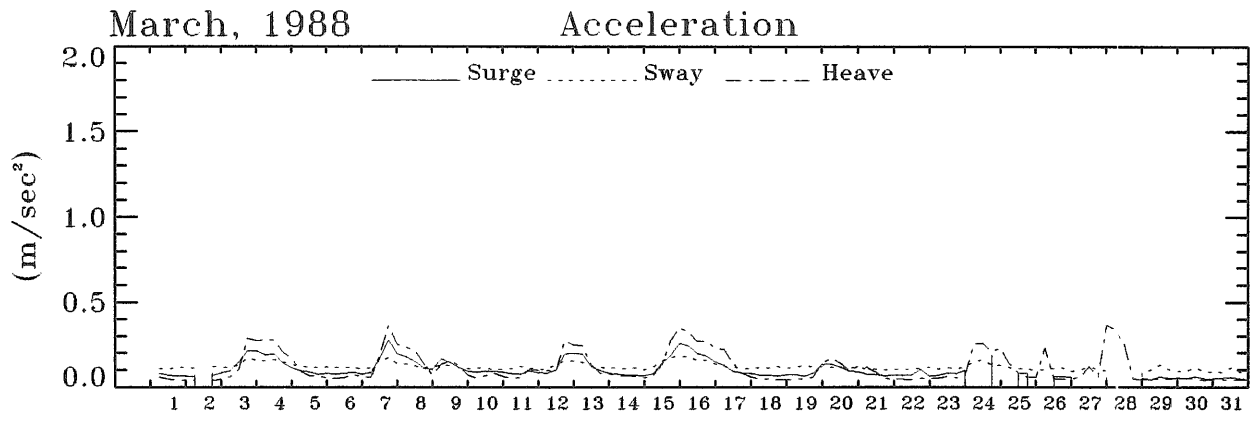


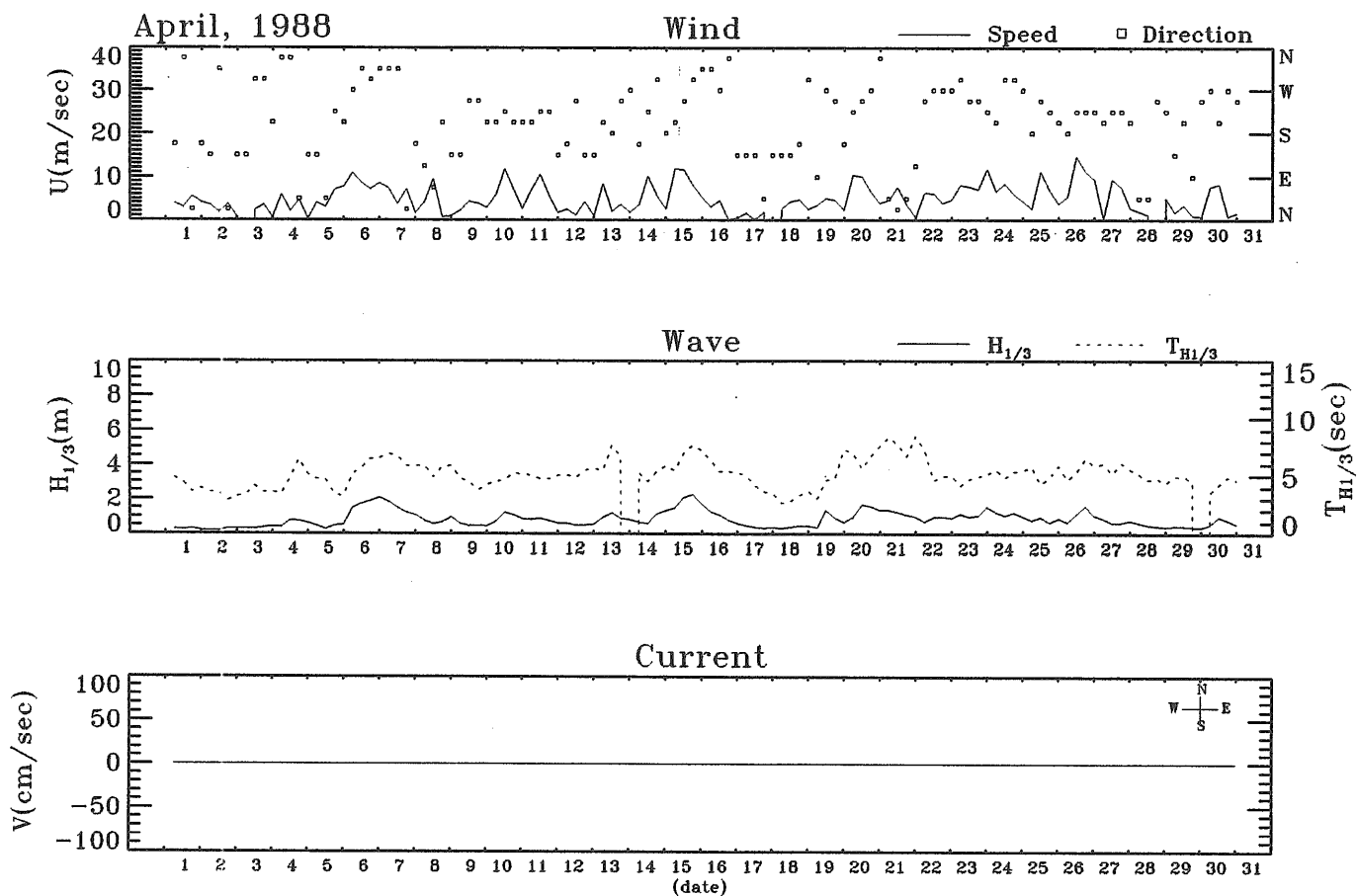


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 *** 月の統計量 <<< 1988 年 3 月 >>> ***
 I T E M : Mean Maximum Std.Dev. 測得率(%)
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I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	4.8756	14.7400	3.4582	45.97
Wave Hight(H _{1/3})	1.4434	4.4600	1.0140	99.19
Wave Period(T _{H_1/3})	6.1100	9.0900	1.4027	99.19
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.1012	.2751	.0507	88.71
Sway Acc.(Std.Dev.)	.1188	.1820	.0202	96.77
Heave Acc.(Std.Dev.)	.1155	.3641	.0881	99.19
Surge Motion(Std.Dev.)	.2190	.6712	.1150	88.71
Sway Motion(Std.Dev.)	.3086	.4281	.0483	96.77
Heave Motion(Std.Dev.)	.2436	.9049	.1892	99.19
Roll Motion(Std.Dev.)	.3343	.8902	.1907	98.39
Pitch Motion(Std.Dev.)	.3305	1.3200	.2662	88.71
Yaw Motion(Std.Dev.)	.4072	.7817	.1197	99.19
Strain No. 1(Std.Dev.)	15.8649	38.6000	9.6980	99.19
Strain No. 9(Std.Dev.)	13.7650	32.5600	8.2176	99.19
Strain No.11(Std.Dev.)	11.1469	26.5300	6.7879	99.19

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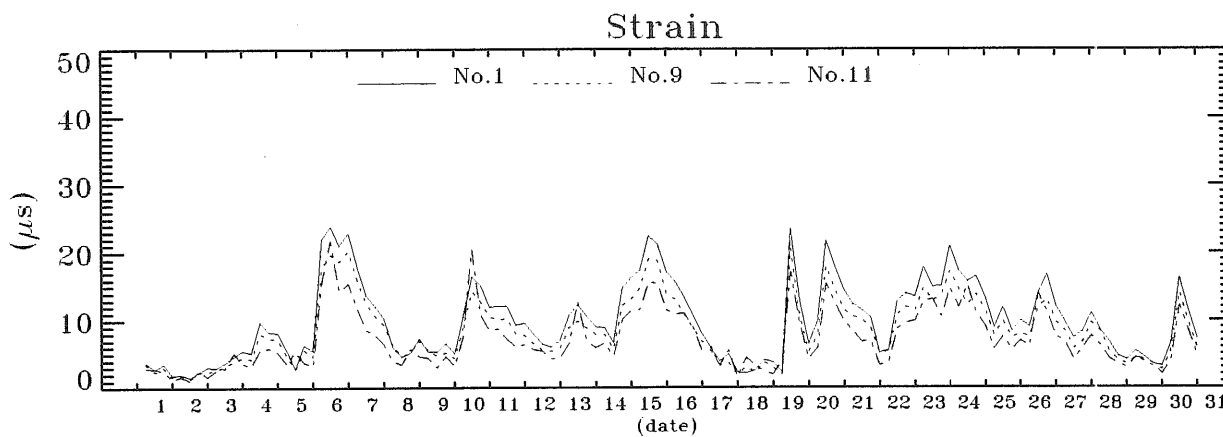
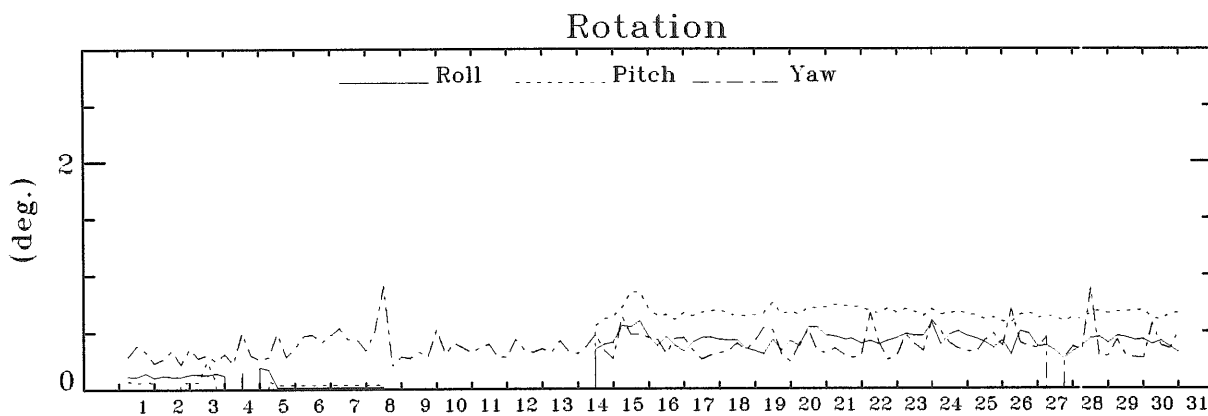
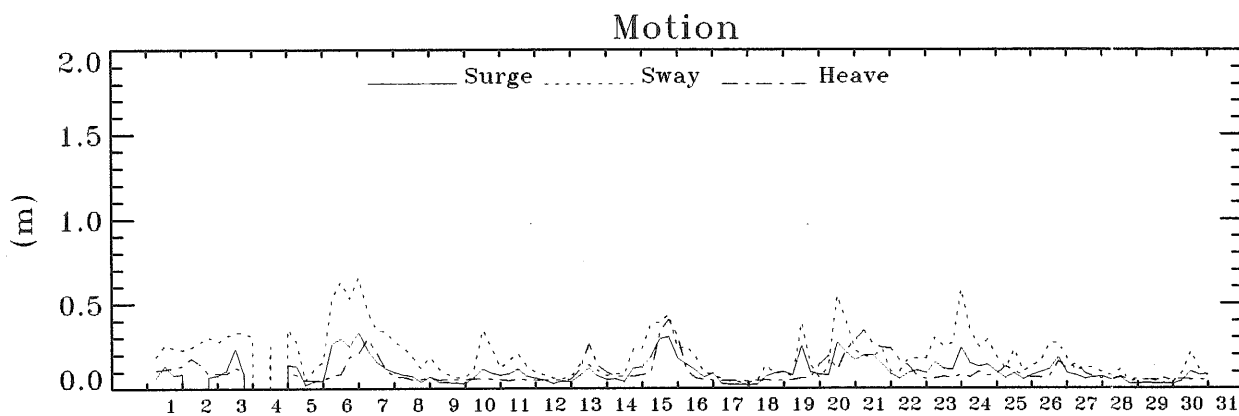
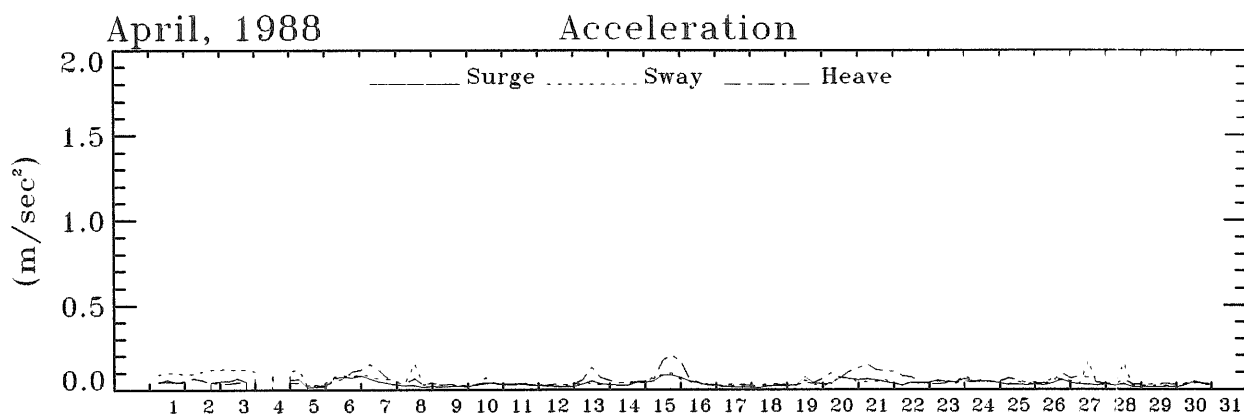


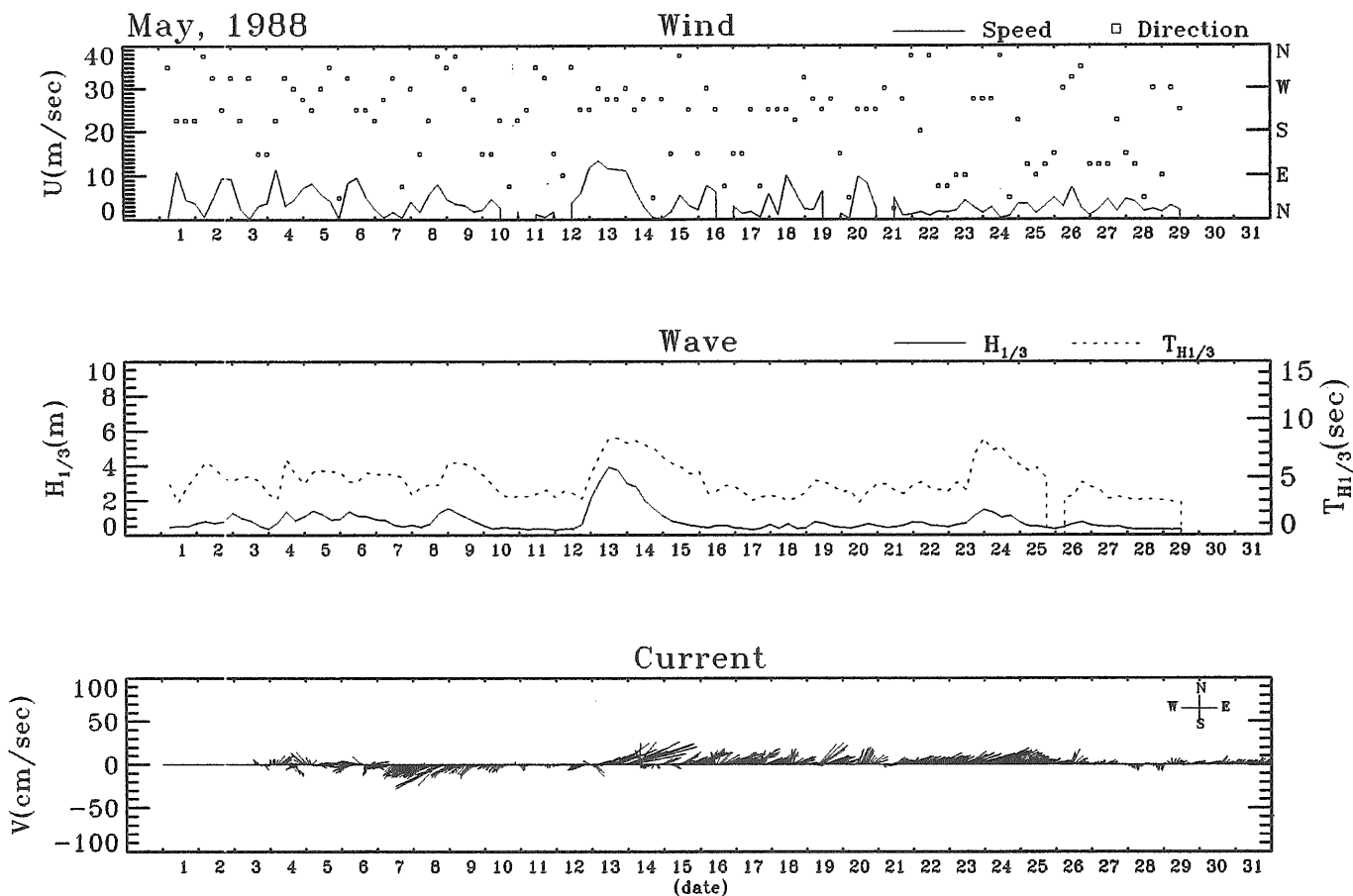


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*** 月の統計量 <<< 1988 年 4 月 >>> ***
I T E M      :      Mean      Maximum      Std.Dev.      測得率(%)
-----
Wind Speed (mean)      4.7347      14.6500      3.4516      100.00
Wave Hight(H_1/3)     .8226       2.2400      .4527      100.00
Wave Period(T_H_1/3)  5.1410      8.5200      1.2250      98.33
Current Speed (mean)   ---         ---         ---         .00
(every hour)          ---         ---         ---         .00
Surge Acc.(Std.Dev.)  .0356       .0845      .0180      95.00
Sway Acc.(Std.Dev.)   .0515       .1671      .0337      98.33
Heave Acc.(Std.Dev.)  .0537       .2028      .0351      96.67
Surge Motion(Std.Dev.) .1015       .3315      .0698      95.00
Sway Motion(Std.Dev.) .1980       .6564      .1347      98.33
Heave Motion(Std.Dev.) .1007       .4066      .0737      96.67
Roll Motion(Std.Dev.) .3176       .5905      .1694      79.17
Pitch Motion(Std.Dev.) .5096       .8506      .2700      75.00
Yaw Motion(Std.Dev.)  .3796       .9028      .1177      99.17
Strain No. 1(Std.Dev.) 9.8344      23.8800     5.6595     100.00
Strain No. 9(Std.Dev.) 8.4333      20.5300     4.7324     100.00
Strain No.11(Std.Dev.) 7.2159      21.7500     4.2814     100.00
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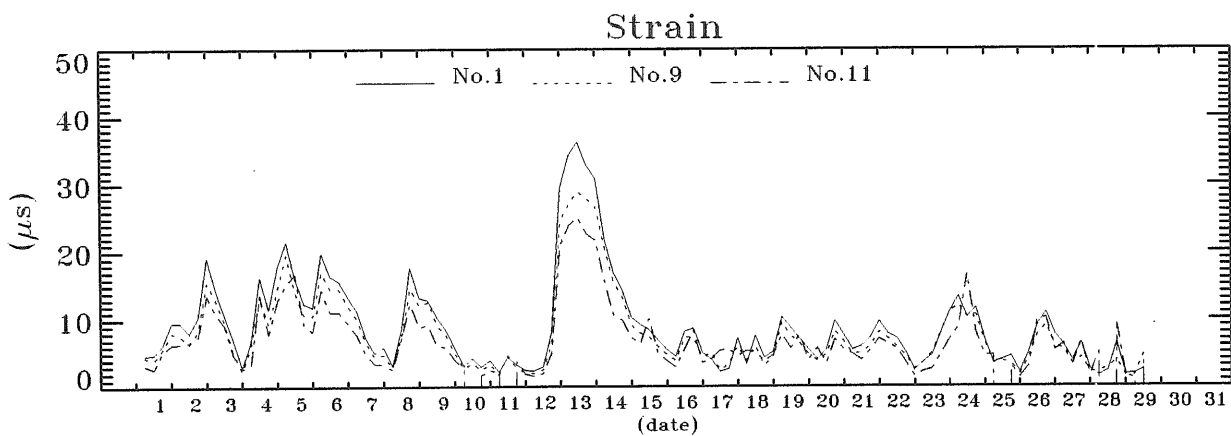
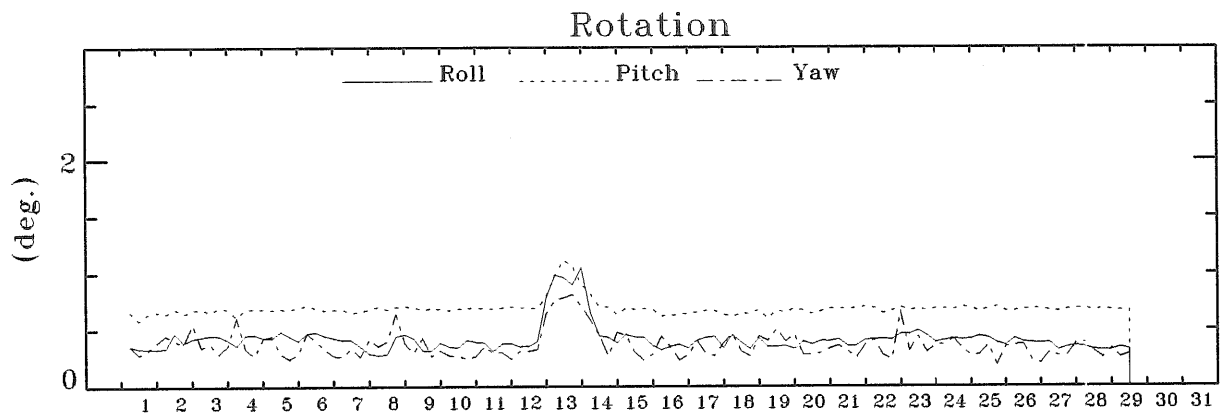
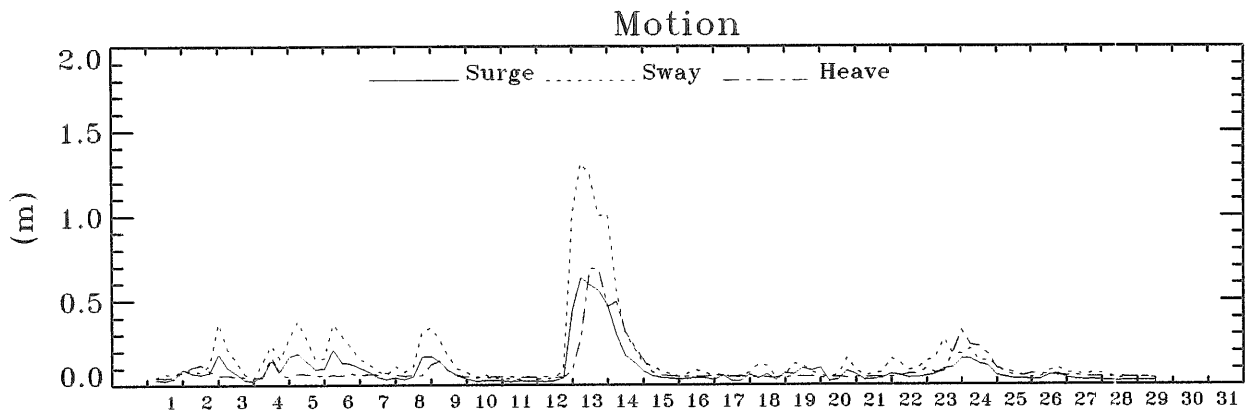
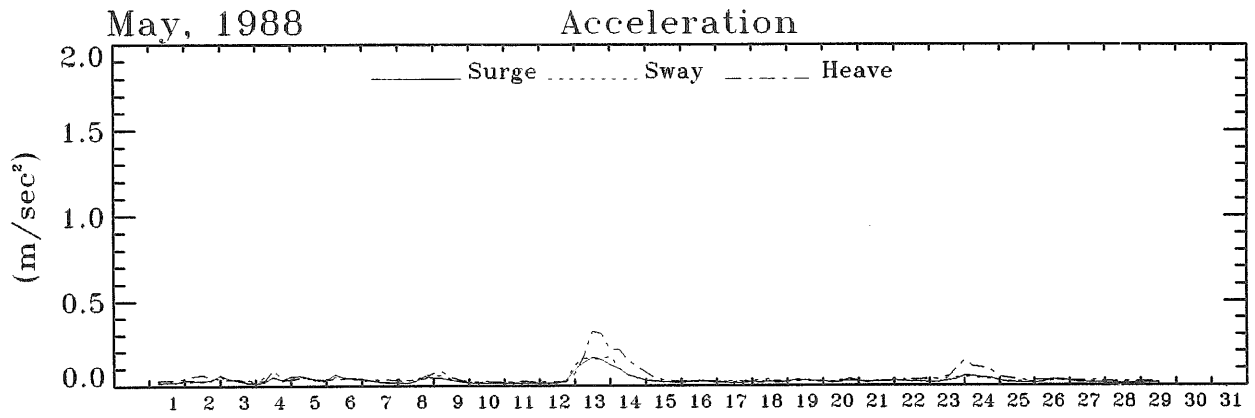
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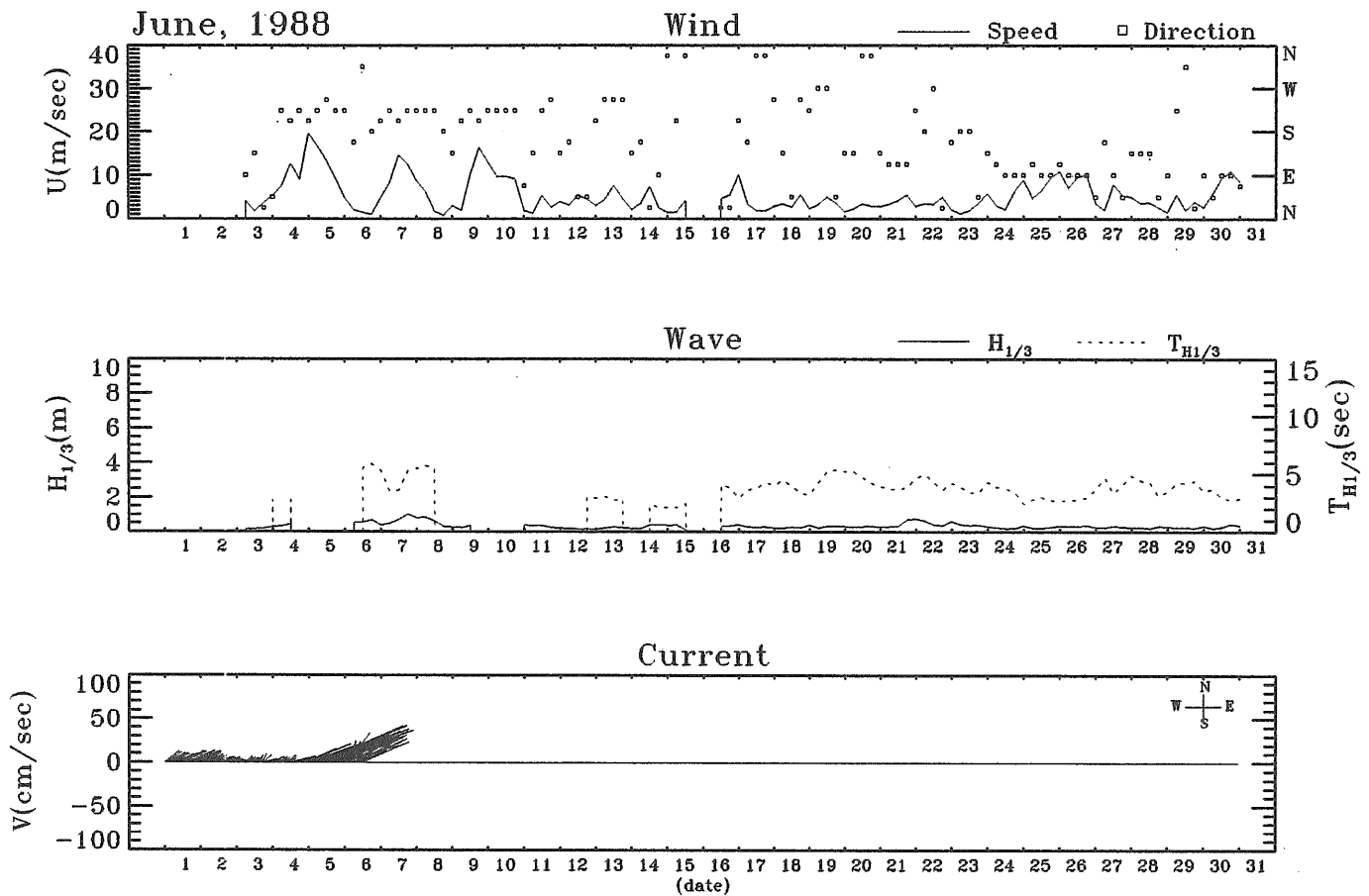





*** 月の統計量 <<< 1988 年 5 月 >>> ***

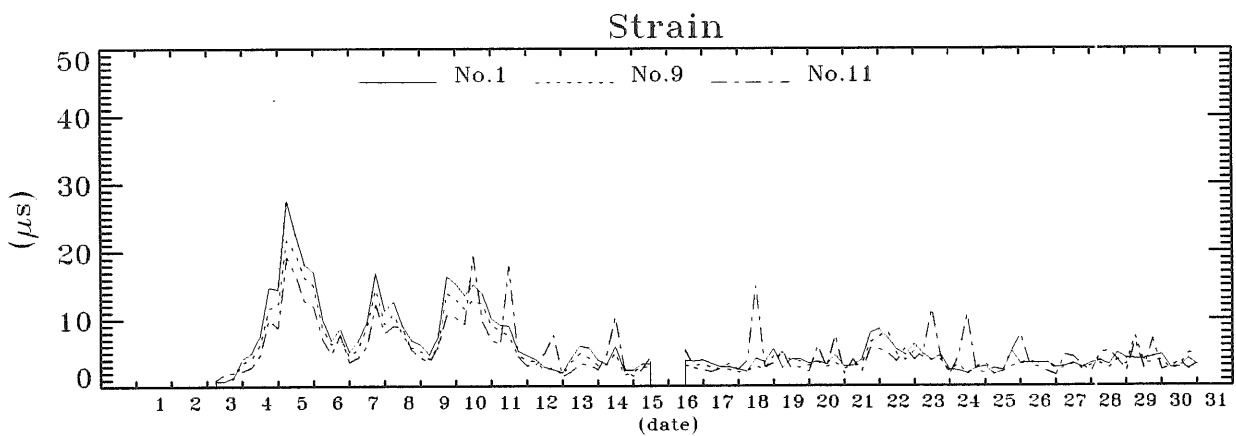
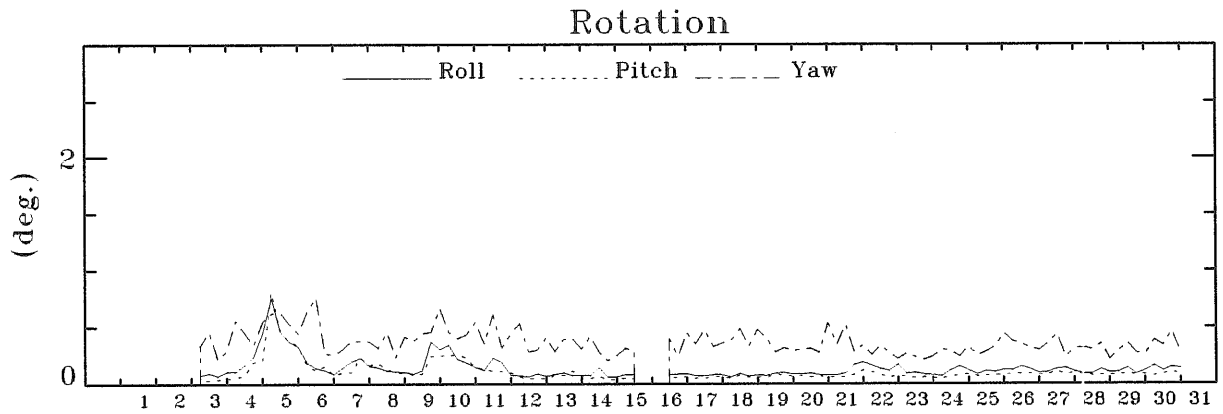
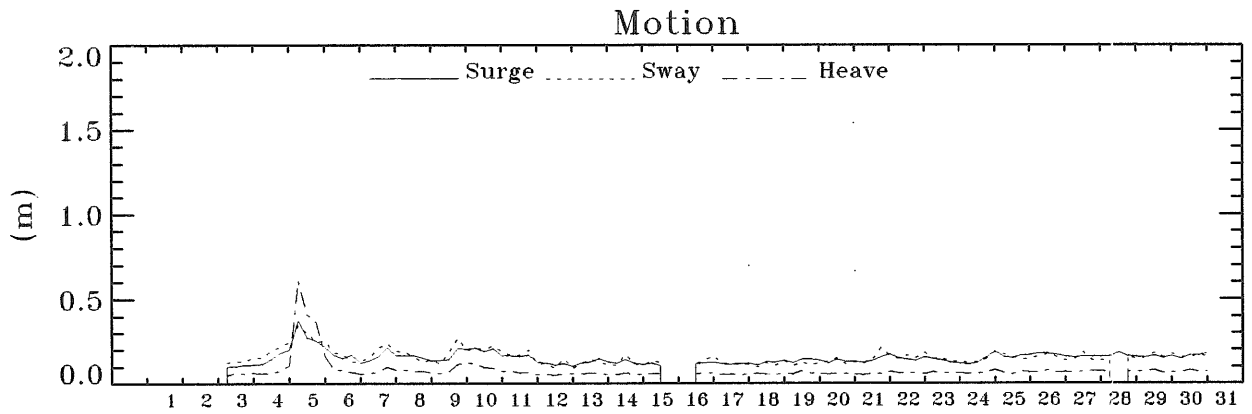
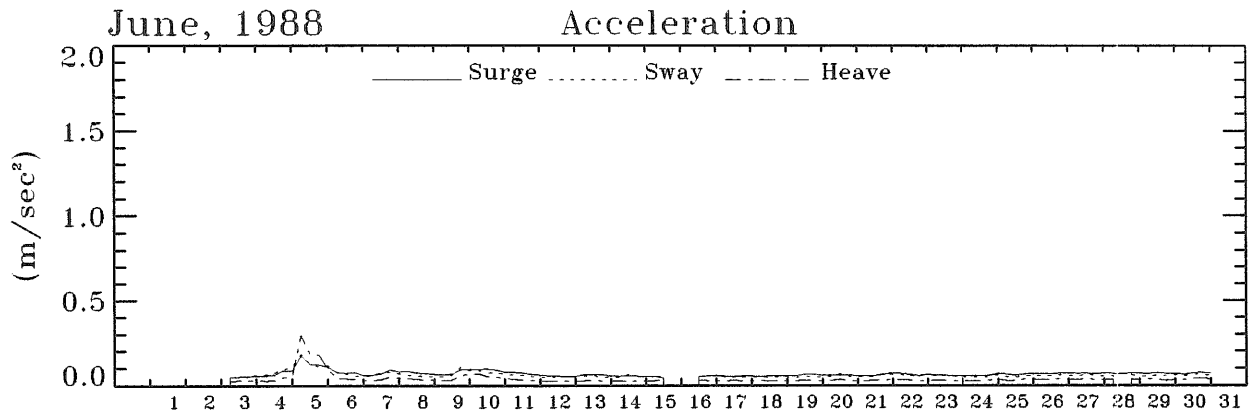
I T E M :	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	3.7379	13.3800	3.2307	91.94
Wave Hight($H_{1/3}$)	.7871	3.9000	.6505	91.94
Wave Period($T_{H_{1/3}}$)	4.7049	8.4000	1.4080	91.13
Current Speed (mean)	13.8865	39.8300	9.5542	91.13
(every hour)	13.5369	63.8100	9.9339	91.80
Surge Acc.(Std.Dev.)	.0302	.1642	.0267	91.94
Sway Acc.(Std.Dev.)	.0360	.1742	.0286	91.94
Heave Acc.(Std.Dev.)	.0470	.3198	.0503	91.94
Surge Motion(Std.Dev.)	.0865	.6336	.1099	91.94
Sway Motion(Std.Dev.)	.1619	1.3110	.2251	91.94
Heave Motion(Std.Dev.)	.0917	.6869	.1101	91.94
Roll Motion(Std.Dev.)	.4117	1.0490	.1256	91.94
Pitch Motion(Std.Dev.)	.6880	1.1190	.0710	91.94
Yaw Motion(Std.Dev.)	.3597	.8117	.1212	91.94
Strain No. 1(Std.Dev.)	8.8803	36.2100	6.9083	91.94
Strain No. 9(Std.Dev.)	7.7925	28.9800	5.7964	91.94
Strain No.11(Std.Dev.)	7.0222	25.0900	4.9713	87.90

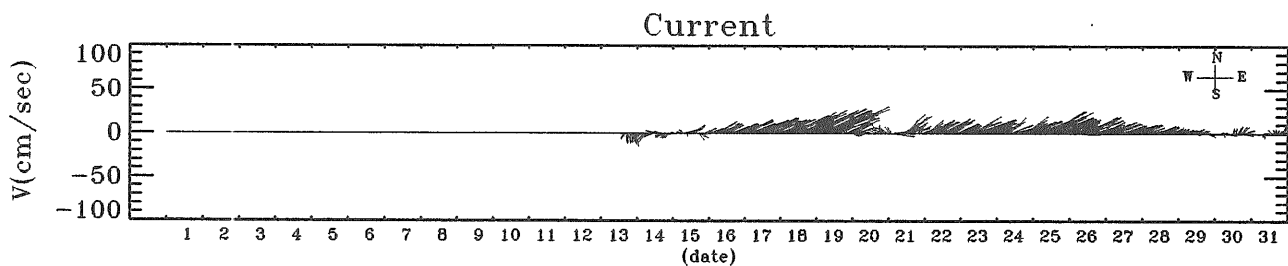
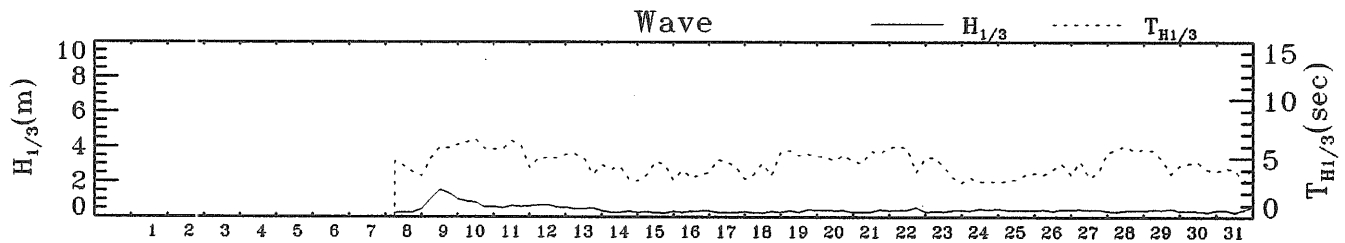
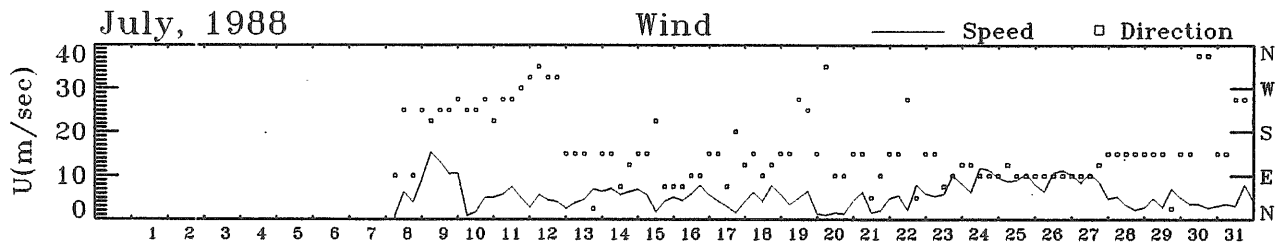




*** 月の統計量 <<< 1988 年 6 月 >>> ***

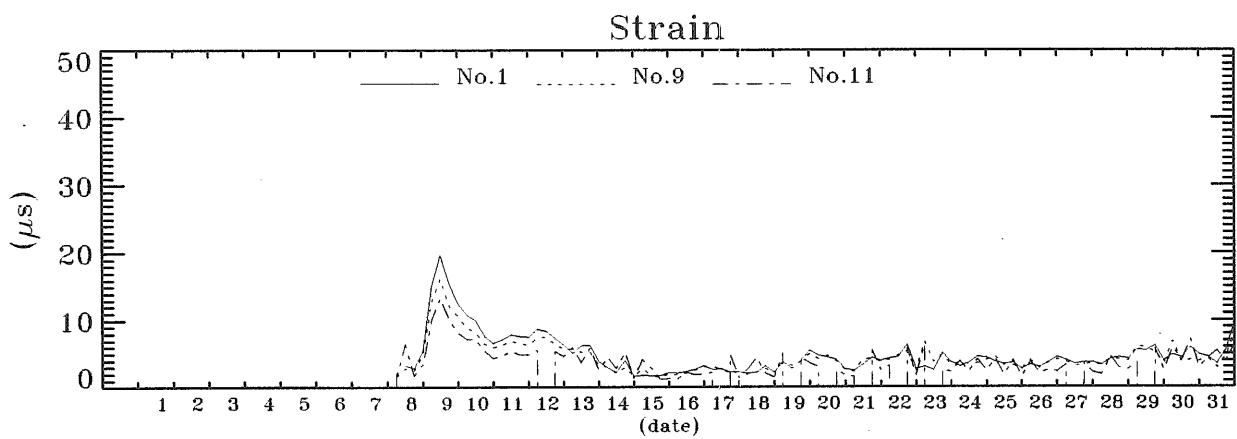
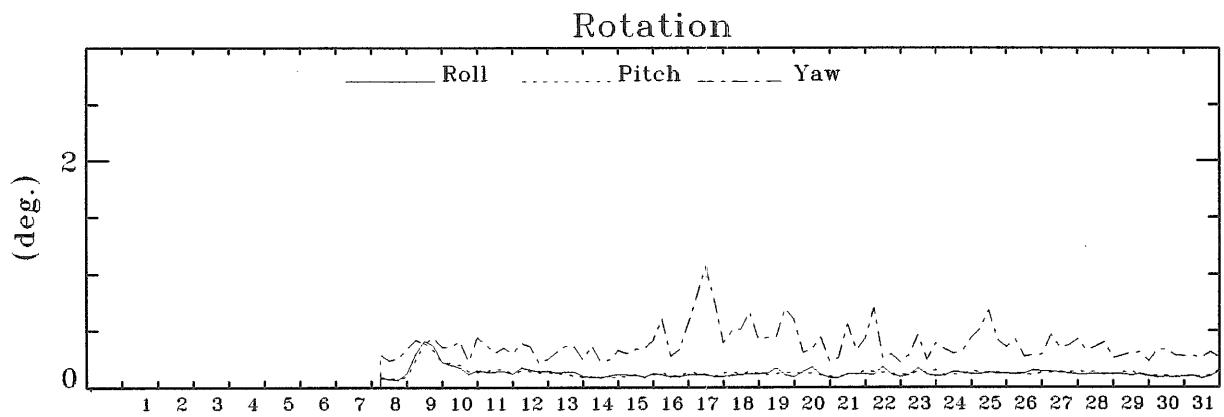
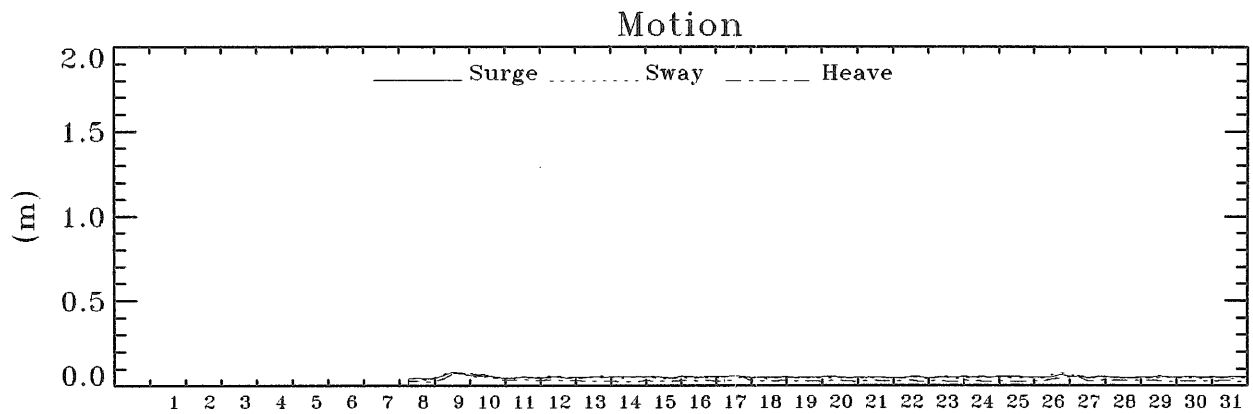
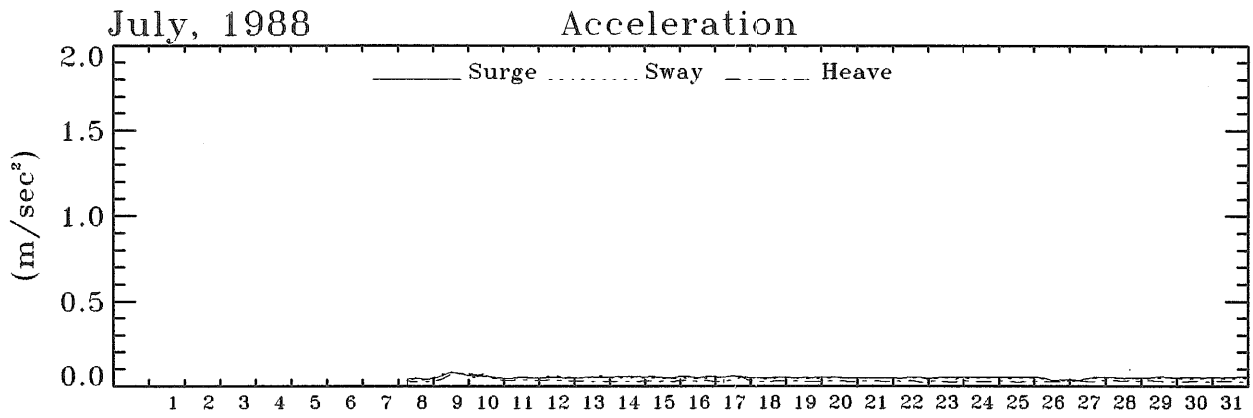
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	5.3439	19.5300	3.7725	90.83
Wave Hight(H _{1/3})	.3262	1.0100	.1621	81.67
Wave Period(T _{H_{1/3}})	3.7924	5.8700	.9370	66.67
Current Speed (mean)	30.0291	81.9300	23.6914	18.33
(every hour)	28.5001	89.5500	23.8605	18.61
Surge Acc.(Std.Dev.)	.0648	.1733	.0174	90.83
Sway Acc.(Std.Dev.)	.0606	.1838	.0192	90.00
Heave Acc.(Std.Dev.)	.0382	.2945	.0335	90.00
Surge Motion(Std.Dev.)	.1489	.3739	.0379	90.83
Sway Motion(Std.Dev.)	.1553	.3496	.0433	90.00
Heave Motion(Std.Dev.)	.0778	.6098	.0694	90.00
Roll Motion(Std.Dev.)	.1336	.7525	.0971	90.83
Pitch Motion(Std.Dev.)	.1056	.8086	.0975	90.83
Yaw Motion(Std.Dev.)	.3656	.7598	.1098	90.83
Strain No. 1(Std.Dev.)	5.8425	27.5100	4.7179	90.83
Strain No. 9(Std.Dev.)	5.1885	21.7400	3.9507	90.83
Strain No.11(Std.Dev.)	5.3091	19.3000	3.8562	90.83

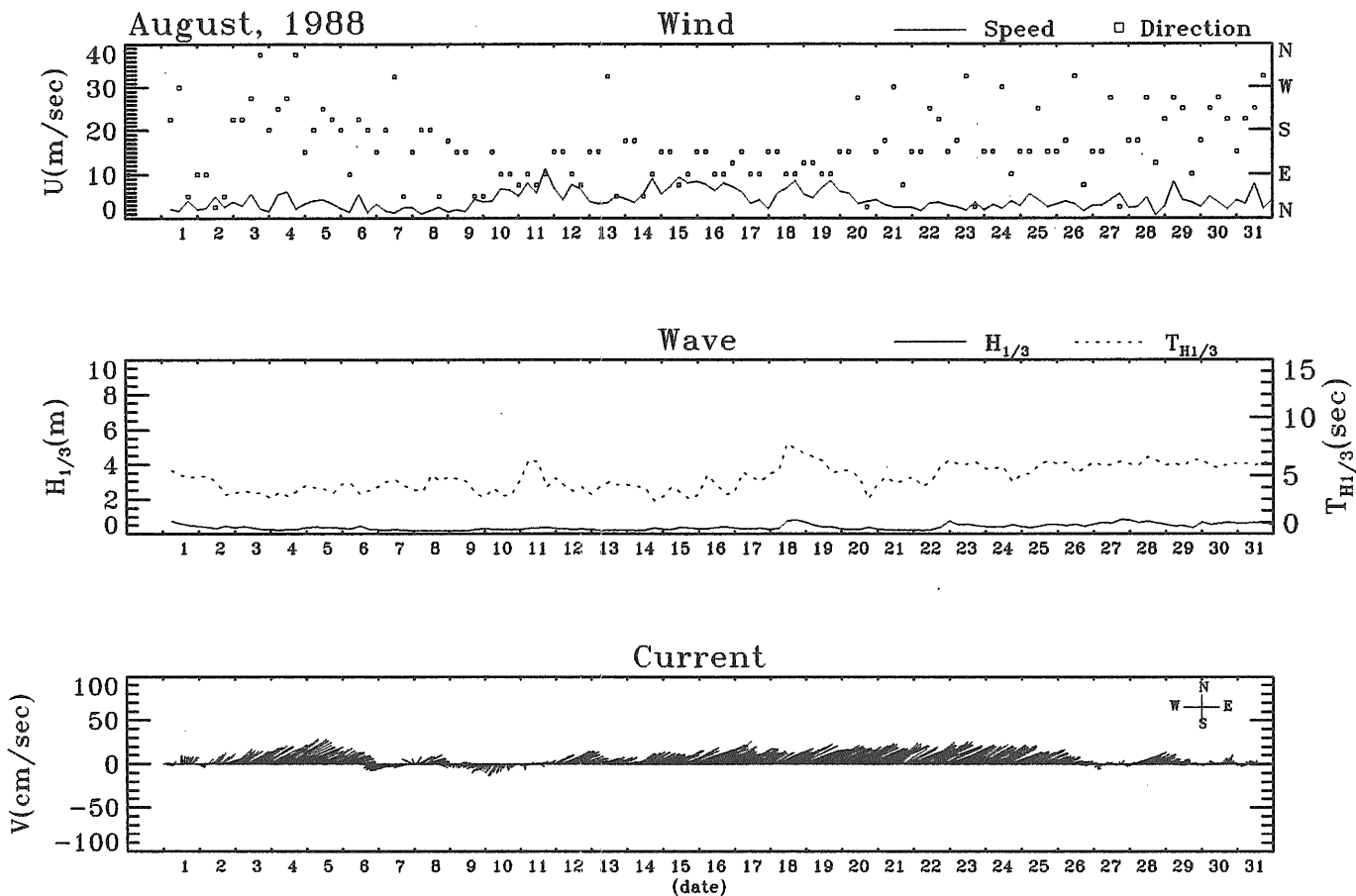




*** 月の統計量 <<< 1988 年 7 月 >>> ***

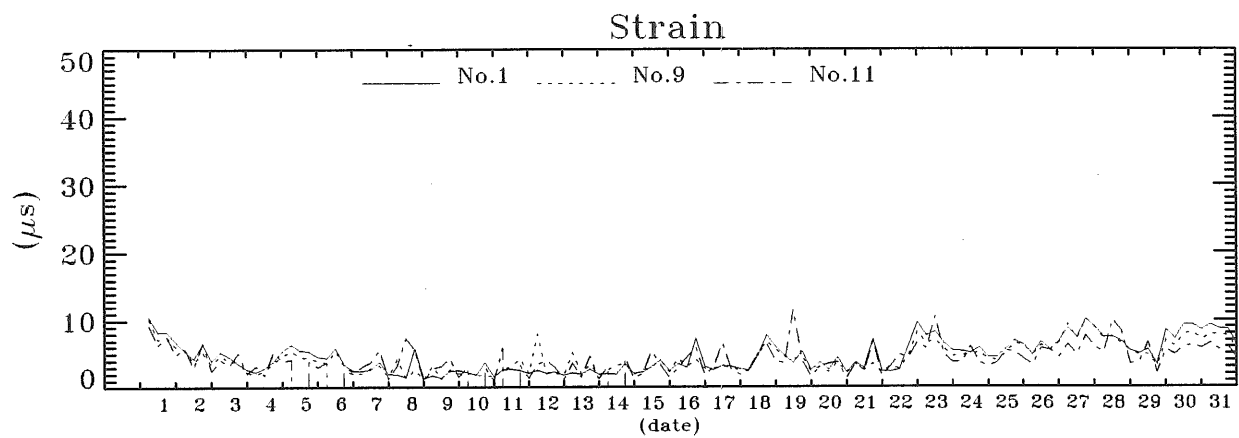
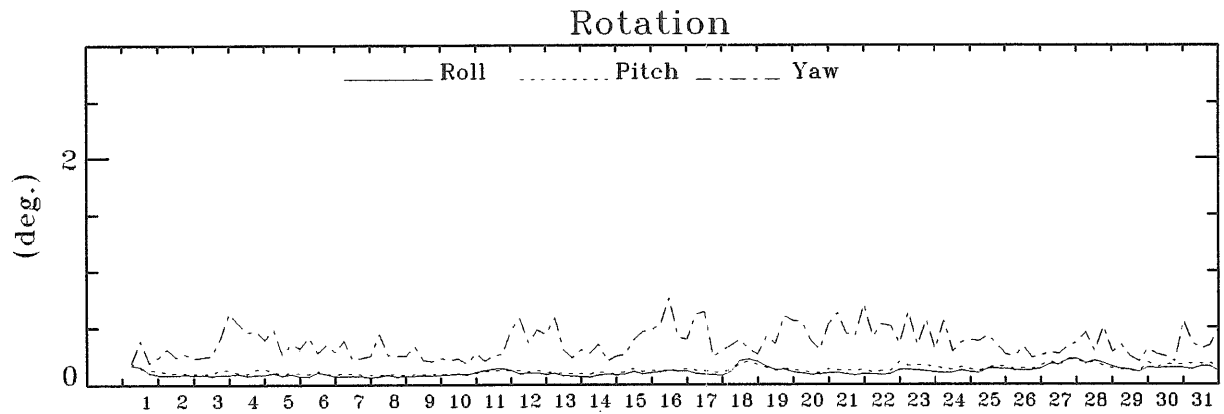
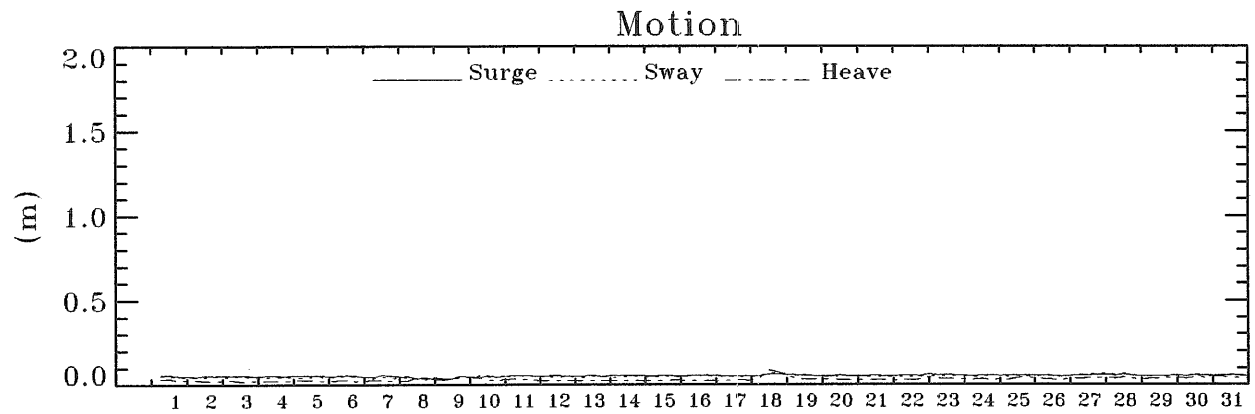
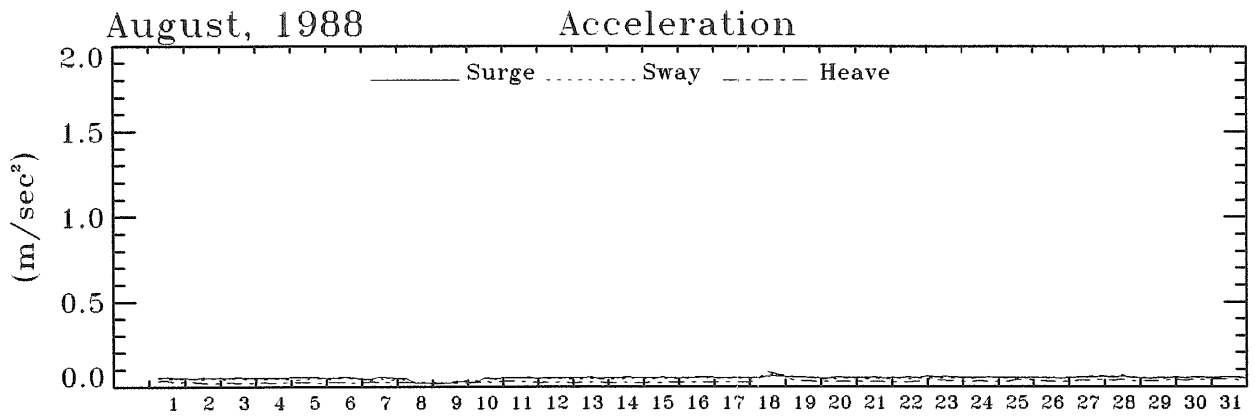
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	5.6881	15.3700	3.0028	77.42
Wave Hight($H_{1/3}$)	.4185	1.5300	.2140	77.42
Wave Period($T_{H_{1/3}}$)	4.5650	6.6300	.9916	77.42
Current Speed (mean)	20.2739	49.5800	12.4299	59.68
(every hour)	20.2219	59.7400	12.6177	59.68
Surge Acc.(Std.Dev.)	.0489	.0789	.0064	77.42
Sway Acc.(Std.Dev.)	.0473	.0805	.0071	75.81
Heave Acc.(Std.Dev.)	.0310	.0746	.0104	77.42
Surge Motion(Std.Dev.)	.0498	.0789	.0056	77.42
Sway Motion(Std.Dev.)	.0487	.0805	.0072	75.81
Heave Motion(Std.Dev.)	.0317	.0746	.0109	77.42
Roll Motion(Std.Dev.)	.1228	.4050	.0497	77.42
Pitch Motion(Std.Dev.)	.1262	.3876	.0437	77.42
Yaw Motion(Std.Dev.)	.3777	1.0670	.1429	77.42
Strain No. 1(Std.Dev.)	4.7483	19.6000	3.0264	77.42
Strain No. 9(Std.Dev.)	4.4363	16.2600	2.4498	77.42
Strain No.11(Std.Dev.)	3.9422	13.3300	2.1723	70.16

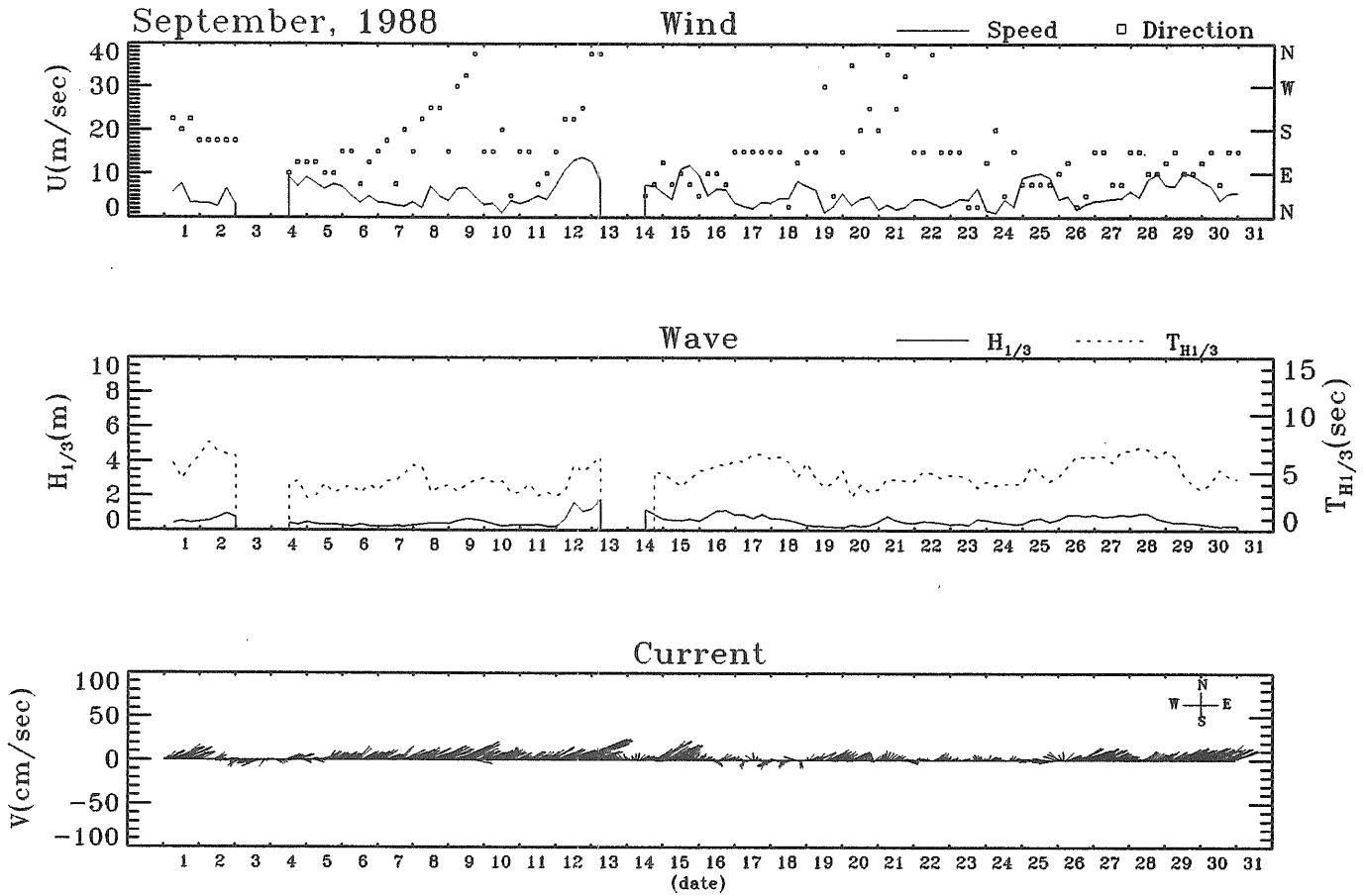




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 *** 月の統計量 <<< 1988 年 8 月 >>> ***
 I T E M : Mean Maximum Std.Dev. 測得率(%)

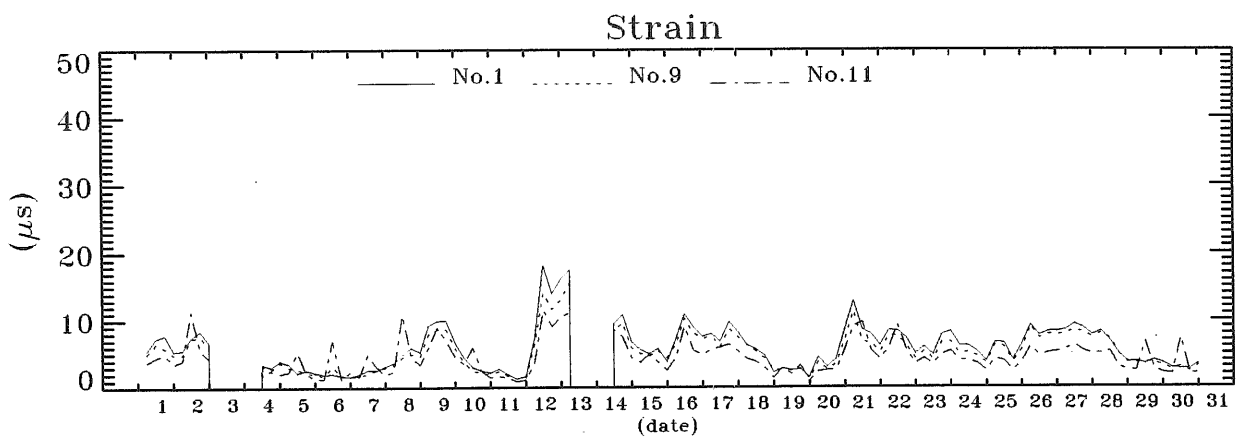
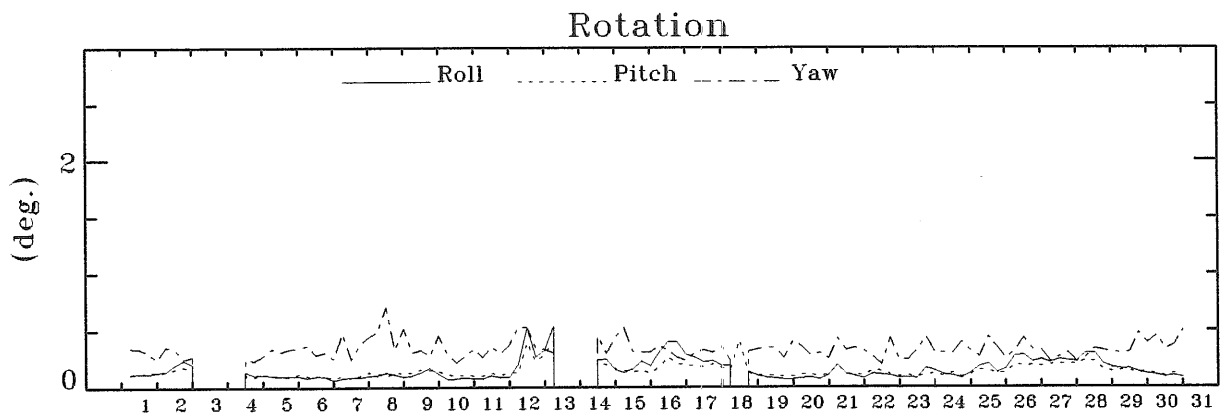
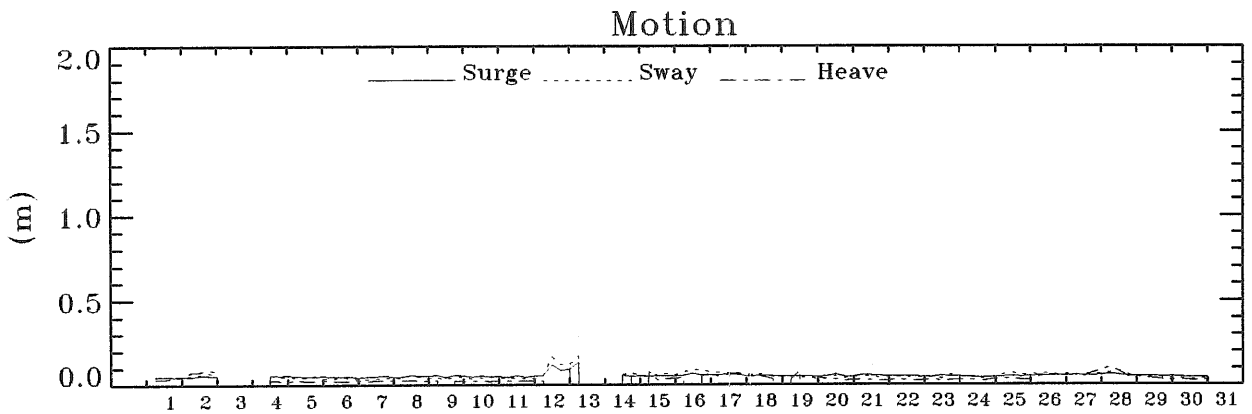
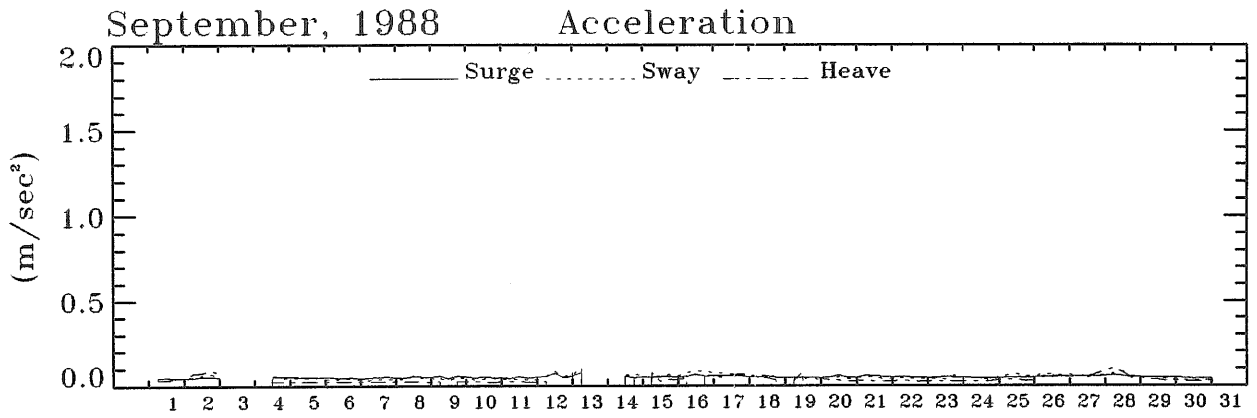
 Wind Speed (mean) 4.1010 11.2100 2.1514 100.00
 Wave Hight(H_{1/3}) .3714 .8100 .1681 100.00
 Wave Period(T_{H1/3}) 4.8552 7.8200 1.0999 100.00
 Current Speed (mean) 19.9098 44.8600 12.3737 99.19
 (every hour) 19.7110 45.8900 12.4611 99.87
 Surge Acc.(Std.Dev.) .0489 .0598 .0078 100.00
 Sway Acc.(Std.Dev.) .0476 .0702 .0080 100.00
 Heave Acc.(Std.Dev.) .0301 .0866 .0093 100.00
 Surge Motion(Std.Dev.) .0499 .0598 .0048 100.00
 Sway Motion(Std.Dev.) .0485 .0702 .0061 100.00
 Heave Motion(Std.Dev.) .0312 .0866 .0095 100.00
 Roll Motion(Std.Dev.) .1074 .2218 .0364 100.00
 Pitch Motion(Std.Dev.) .1266 .2272 .0330 100.00
 Yaw Motion(Std.Dev.) .3636 .7587 .1279 100.00
 Strain No. 1(Std.Dev.) 4.5734 10.5000 2.3594 100.00
 Strain No. 9(Std.Dev.) 4.3190 10.2300 2.0773 100.00
 Strain No.11(Std.Dev.) 4.2284 11.4800 2.0288 95.97
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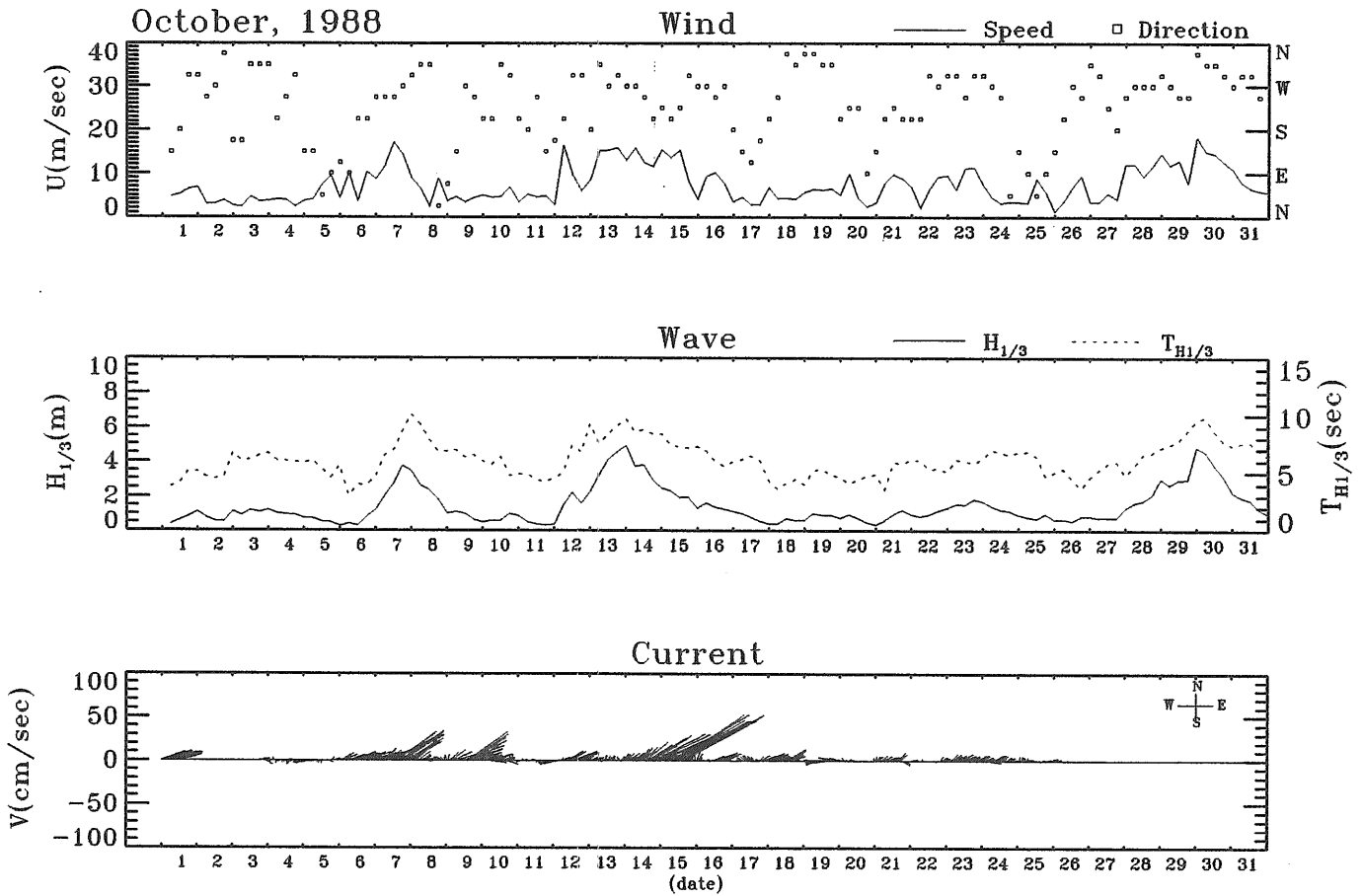




*** 月の統計量 <<< 1988 年 9 月 >>> ***

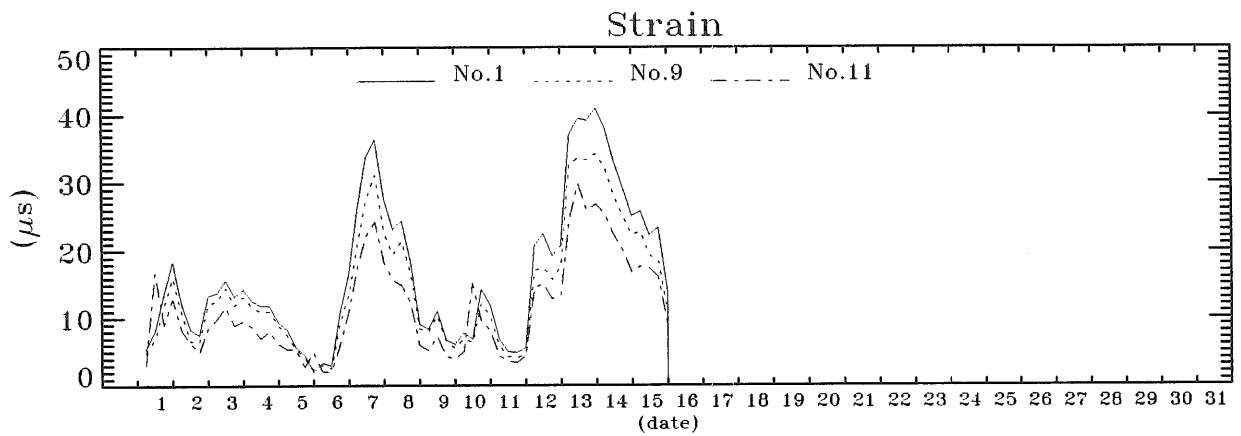
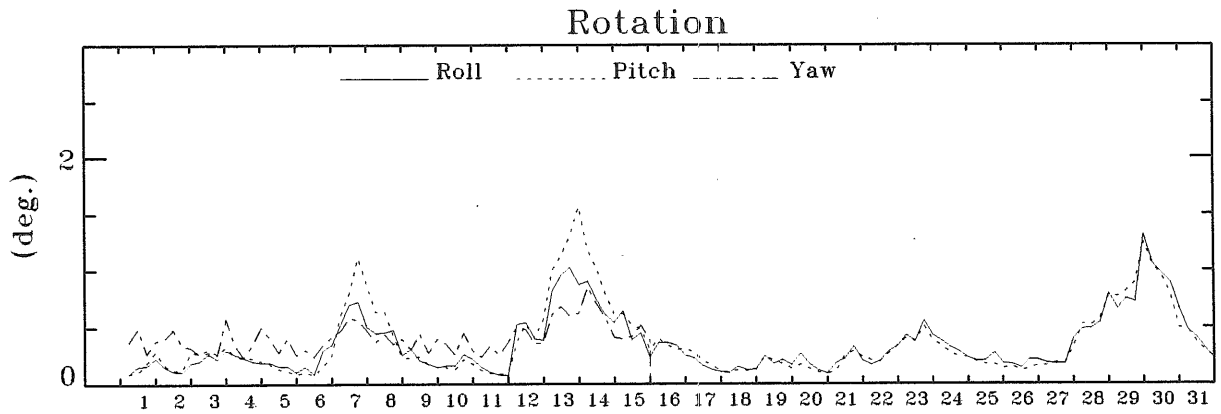
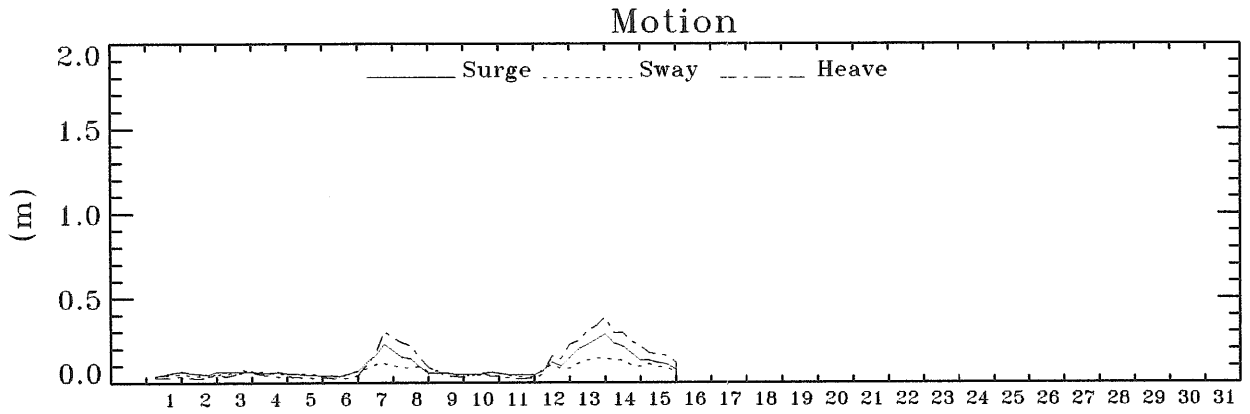
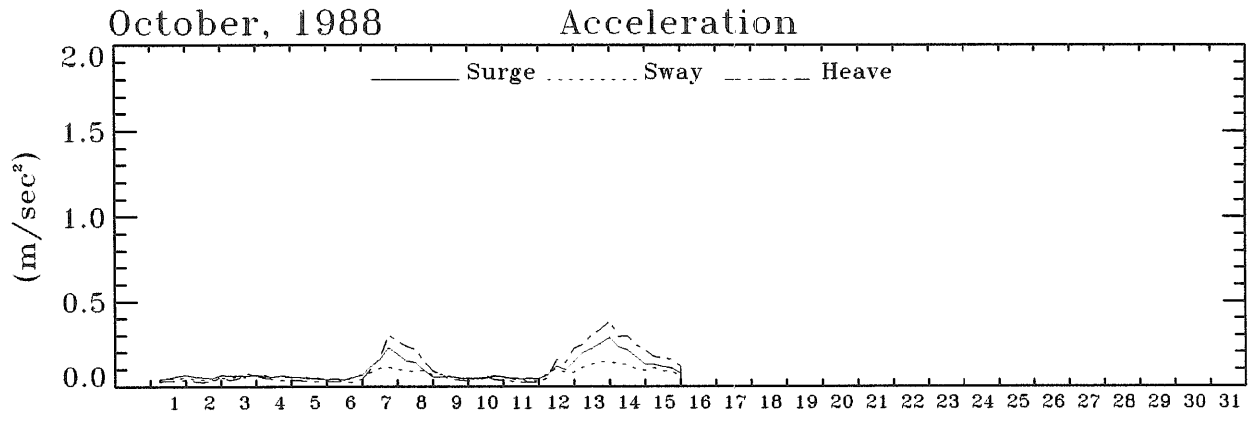
I T E M	:	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)		5.4277	13.6900	2.7764	92.50
Wave Hight($H_{1/3}$)		.5378	1.7700	.3004	92.50
Wave Period($T_{H_{1/3}}$)		4.8362	7.6500	1.1827	91.67
Current Speed (mean)		14.0897	50.8100	9.1705	99.17
(every hour)		13.8948	53.9400	9.0157	99.72
Surge Acc.(Std.Dev.)		.0500	.0770	.0058	92.50
Sway Acc.(Std.Dev.)		.0514	.1080	.0136	92.50
Heave Acc.(Std.Dev.)		.0383	.1022	.0187	85.00
Surge Motion(Std.Dev.)		.0515	.1311	.0120	92.50
Sway Motion(Std.Dev.)		.0538	.1692	.0217	92.50
Heave Motion(Std.Dev.)		.0387	.1152	.0198	85.00
Roll Motion(Std.Dev.)		.1537	.5312	.0893	91.67
Pitch Motion(Std.Dev.)		.1442	.4110	.0596	92.50
Yaw Motion(Std.Dev.)		.3356	.7043	.0822	91.67
Strain No. 1(Std.Dev.)		5.8826	18.1600	3.3059	92.50
Strain No. 9(Std.Dev.)		5.3268	15.5100	2.7943	92.50
Strain No.11(Std.Dev.)		4.4706	11.5400	2.4590	92.50

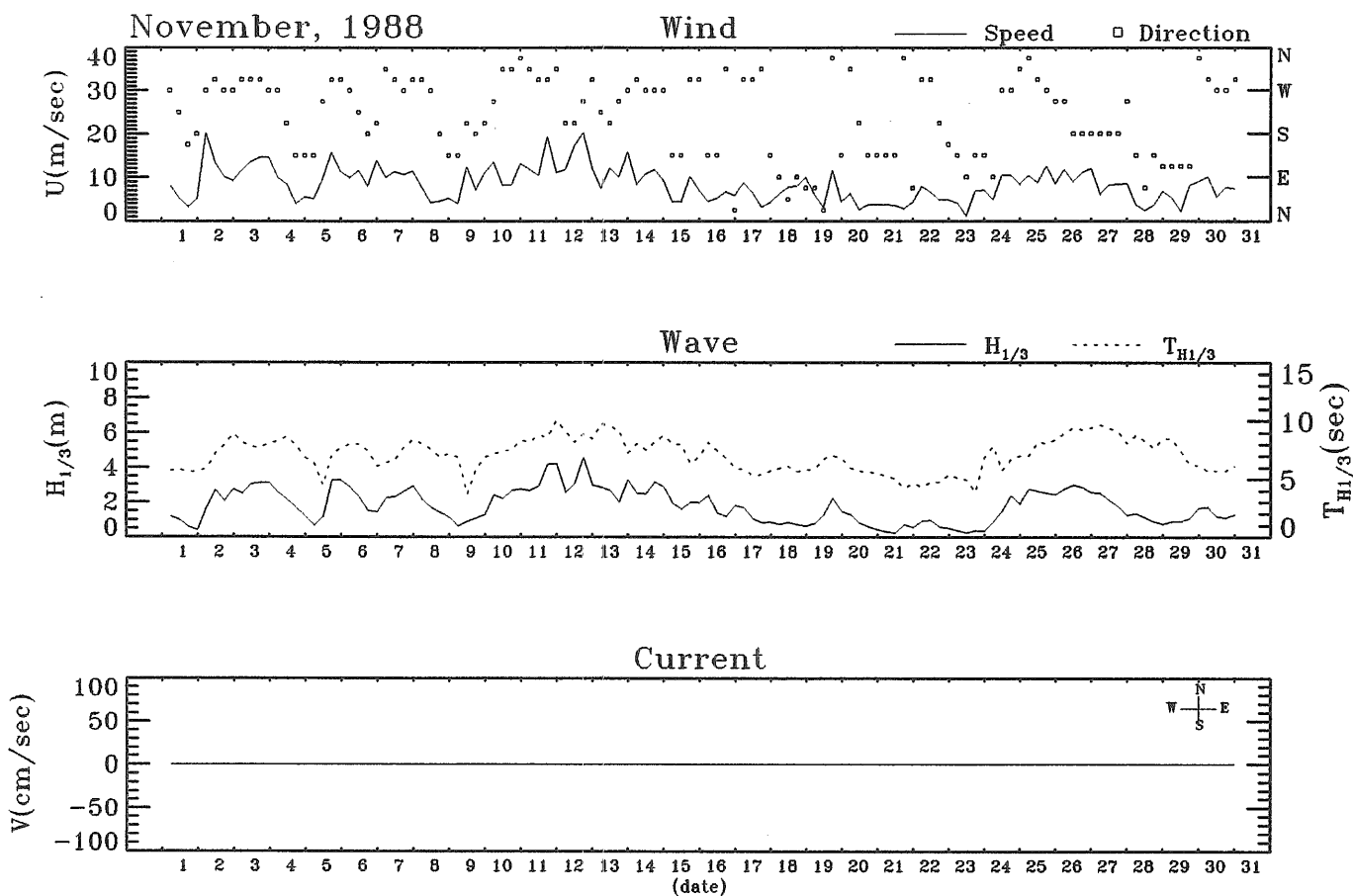




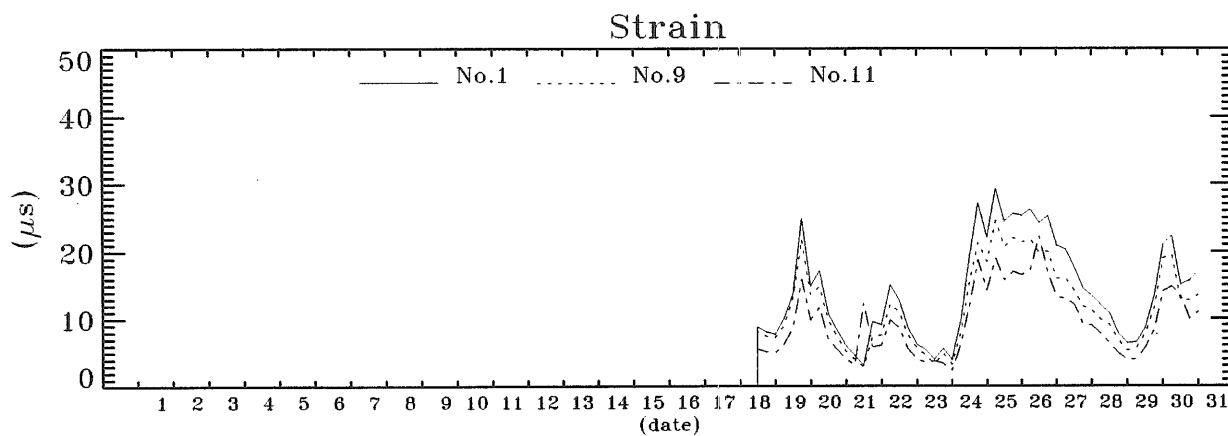
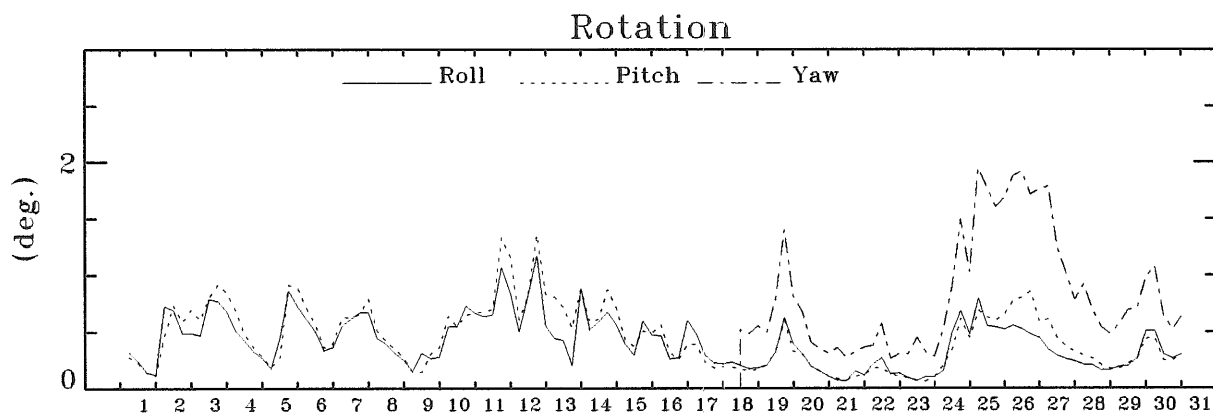
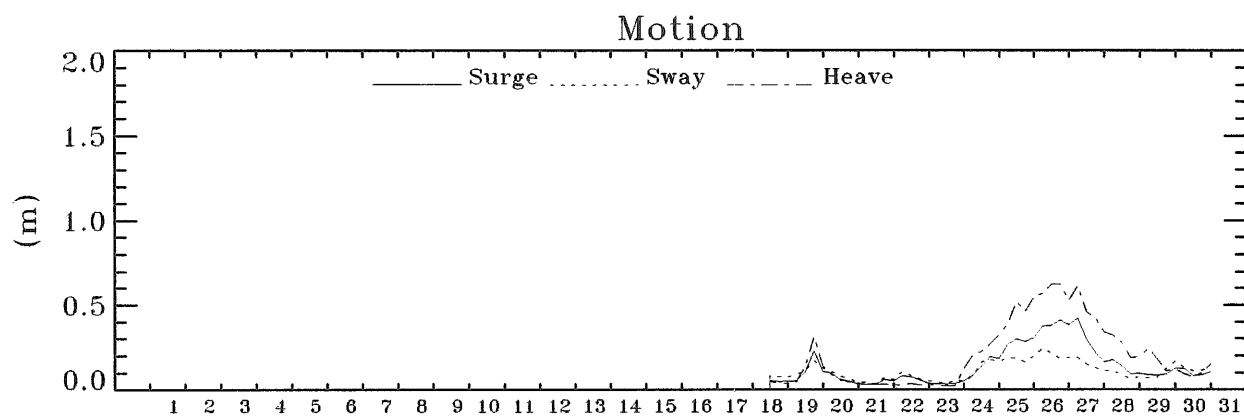
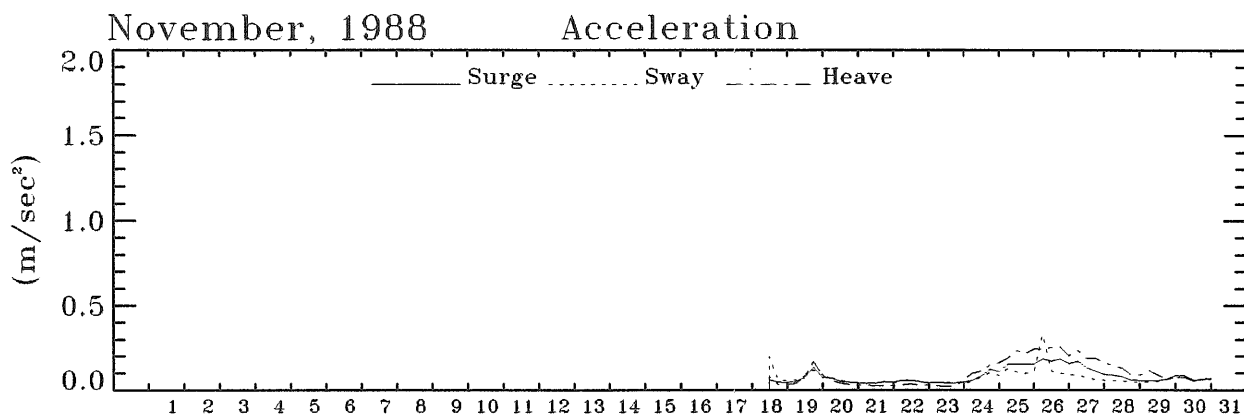
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 *** 月の統計量 <<< 1988 年 10 月 >>> ***
 I T E M : Mean Maximum Std.Dev. 測得率(%)

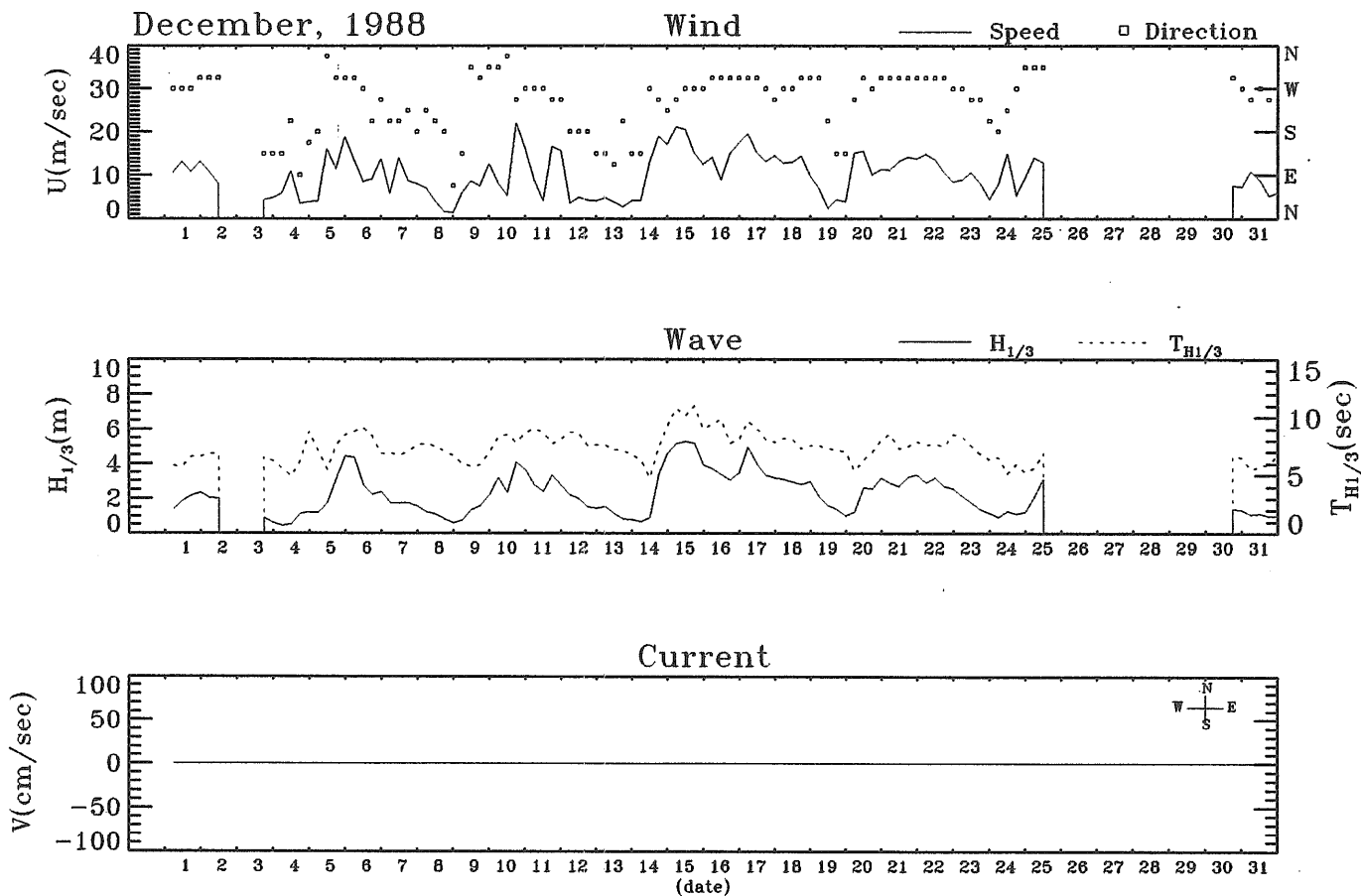
 Wind Speed (mean) 7.3306 18.2200 4.0696 100.00
 Wave Hight($H_{1/3}$) 1.4193 4.8900 1.0652 100.00
 Wave Period($T_{H_{1/3}}$) 6.1443 10.1100 1.5174 100.00
 Current Speed (mean) 12.4053 80.2600 15.0211 75.00
 (every hour) 12.7808 90.5200 15.4665 75.40
 Surge Acc.(Std.Dev.) .0926 .2845 .0630 48.39
 Sway Acc.(Std.Dev.) .0706 .1449 .0298 48.39
 Heave Acc.(Std.Dev.) .1075 .3833 .0992 48.39
 Surge Motion(Std.Dev.) .0926 .2845 .0630 48.39
 Sway Motion(Std.Dev.) .0706 .1449 .0298 48.39
 Heave Motion(Std.Dev.) .1075 .3833 .0992 48.39
 Roll Motion(Std.Dev.) .3432 1.3130 .2481 100.00
 Pitch Motion(Std.Dev.) .3669 1.5670 .3072 100.00
 Yaw Motion(Std.Dev.) .4100 .8523 .1300 48.39
 Strain No. 1(Std.Dev.) 16.4466 40.9300 10.6448 48.39
 Strain No. 9(Std.Dev.) 14.2133 34.2500 8.8854 48.39
 Strain No.11(Std.Dev.) 11.5457 29.7800 7.1305 48.39
 =====





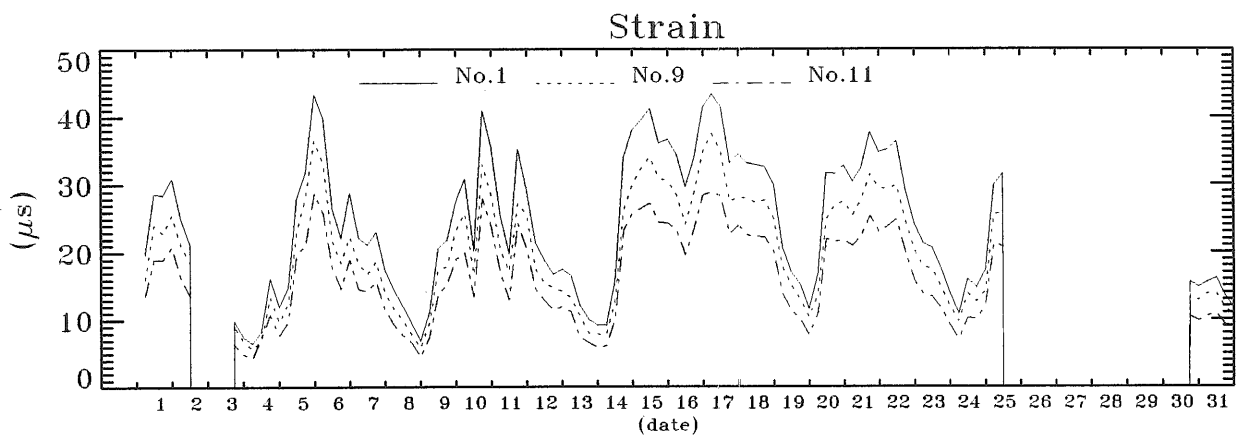
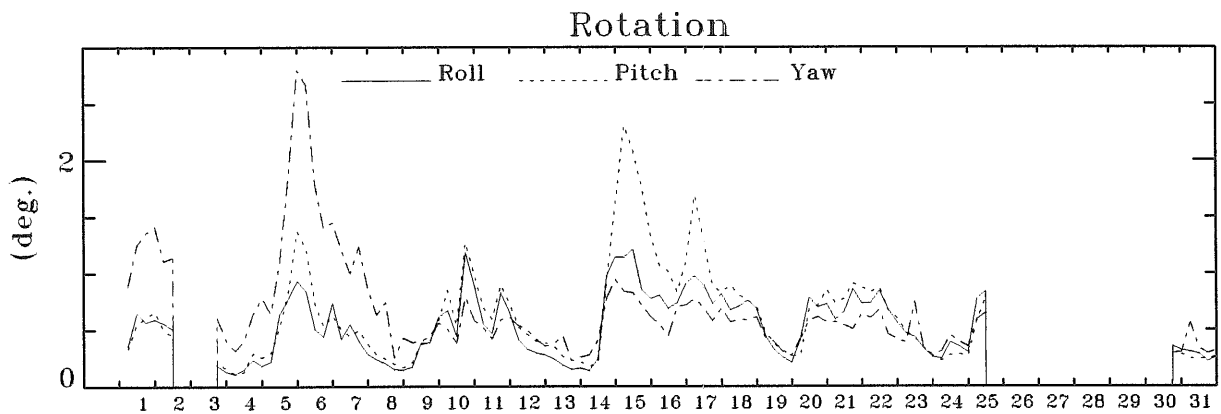
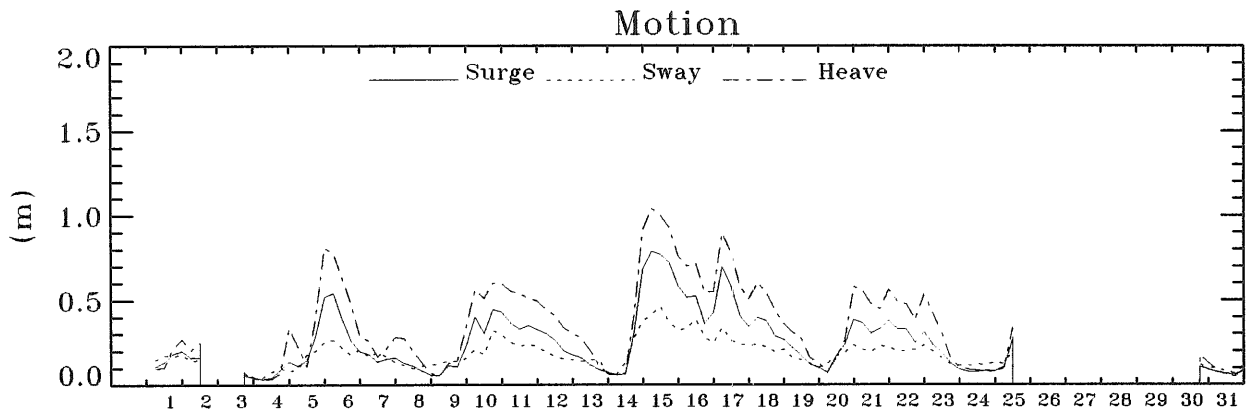
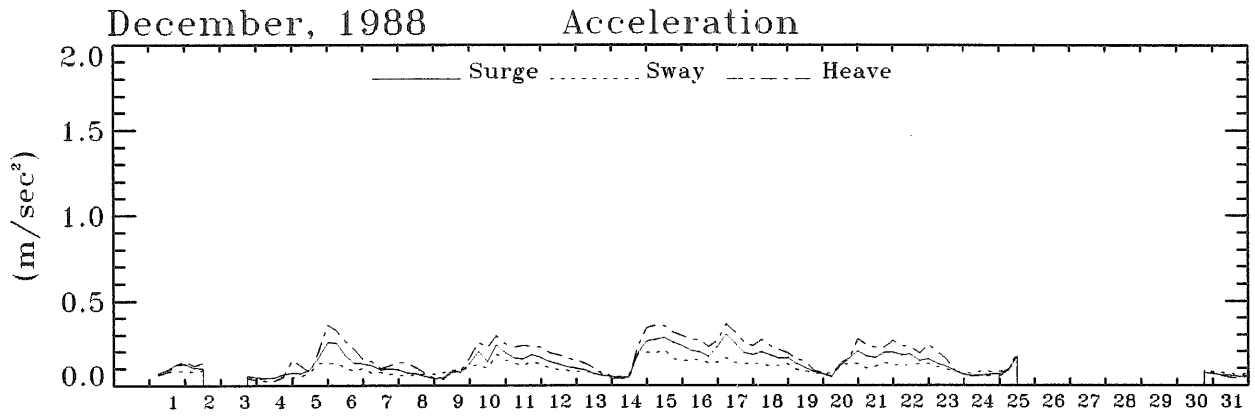
*** 月の統計量 <<< 1988 年 11 月 >>> ***				
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	8.3647	20.2600	3.8631	100.00
Wave Hight($H_{1/3}$)	1.7706	4.5600	.9609	100.00
Wave Period($T_{H_{1/3}}$)	7.0972	10.0300	1.4396	100.00
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.0816	.1819	.0442	42.50
Sway Acc.(Std.Dev.)	.0746	.3286	.0463	42.50
Heave Acc.(Std.Dev.)	.1027	.2537	.0744	42.50
Surge Motion(Std.Dev.)	.1378	.4192	.1125	42.50
Sway Motion(Std.Dev.)	.1109	.2428	.0539	42.50
Heave Motion(Std.Dev.)	.2076	.6236	.1907	42.50
Roll Motion(Std.Dev.)	.4078	1.1710	.2289	100.00
Pitch Motion(Std.Dev.)	.4513	1.3570	.2760	100.00
Yaw Motion(Std.Dev.)	.8343	1.9490	.5240	42.50
Strain No. 1(Std.Dev.)	14.0744	29.1900	7.3504	42.50
Strain No. 9(Std.Dev.)	11.9133	24.5700	6.0330	42.50
Strain No.11(Std.Dev.)	9.5838	22.2600	5.0501	42.50

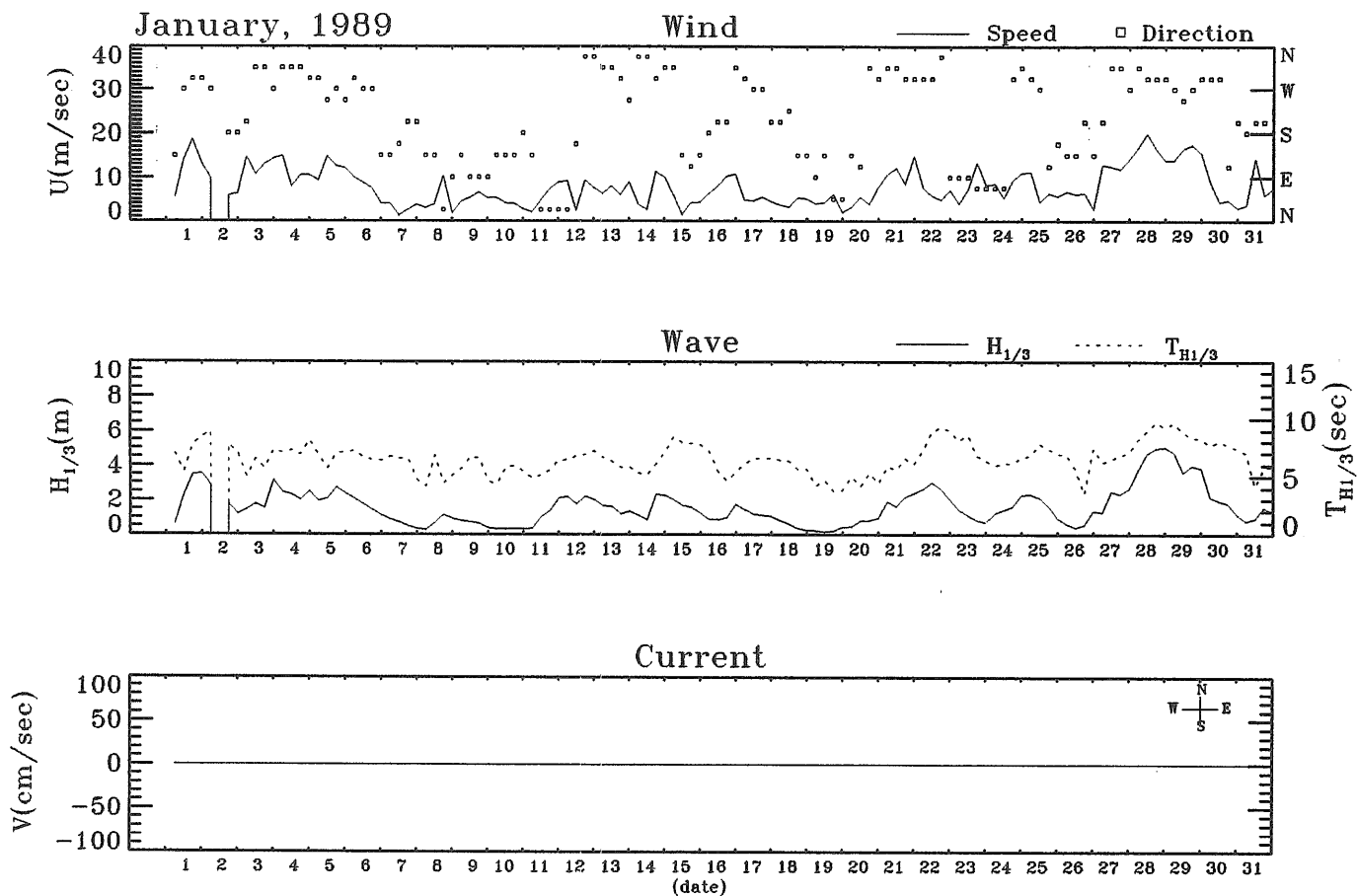




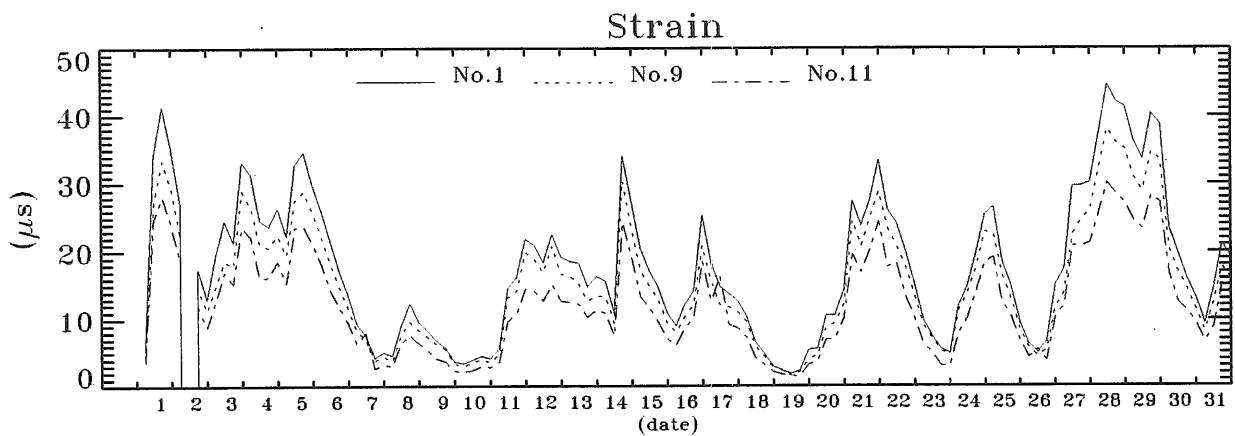
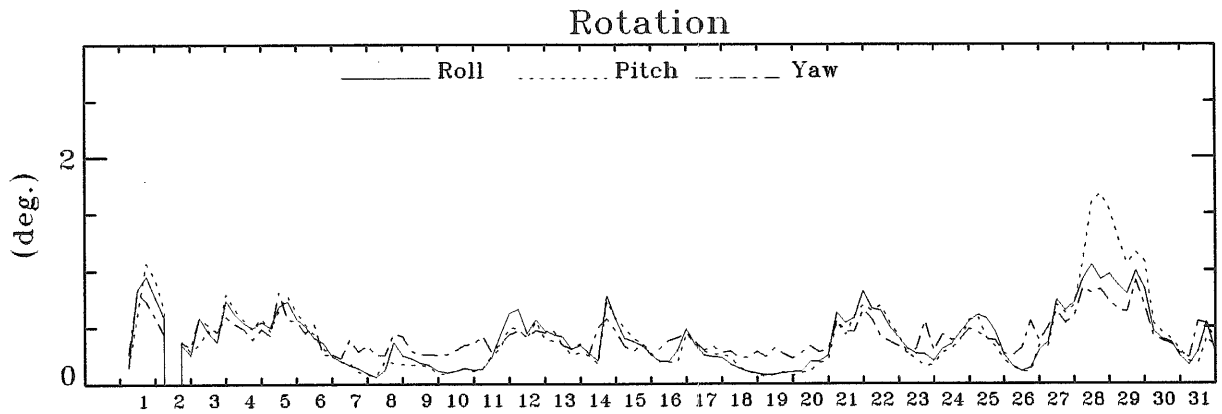
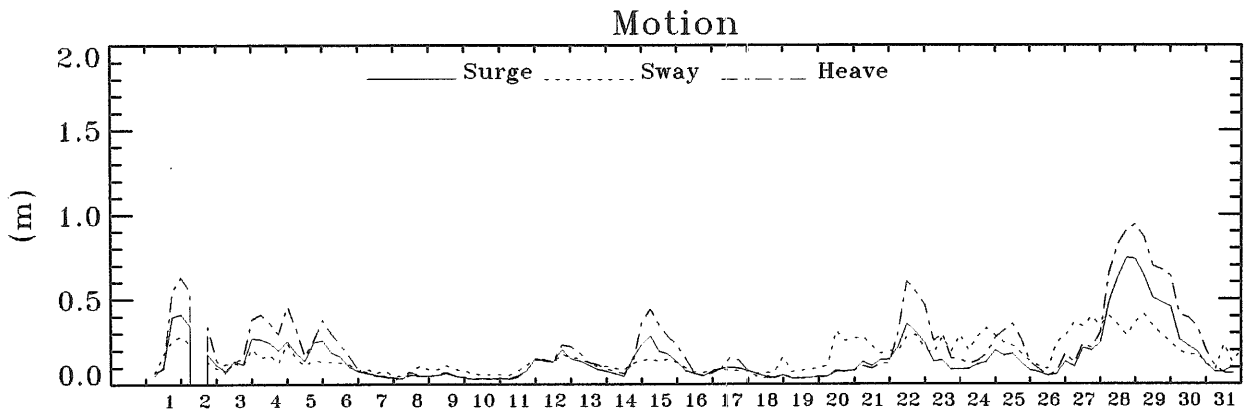
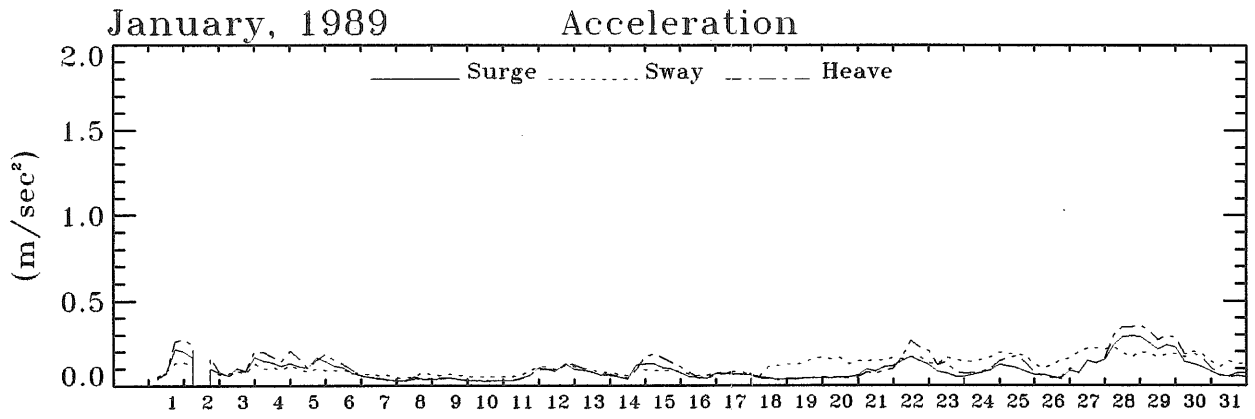
*** 月の統計量 <<< 1988 年 12 月 >>> ***

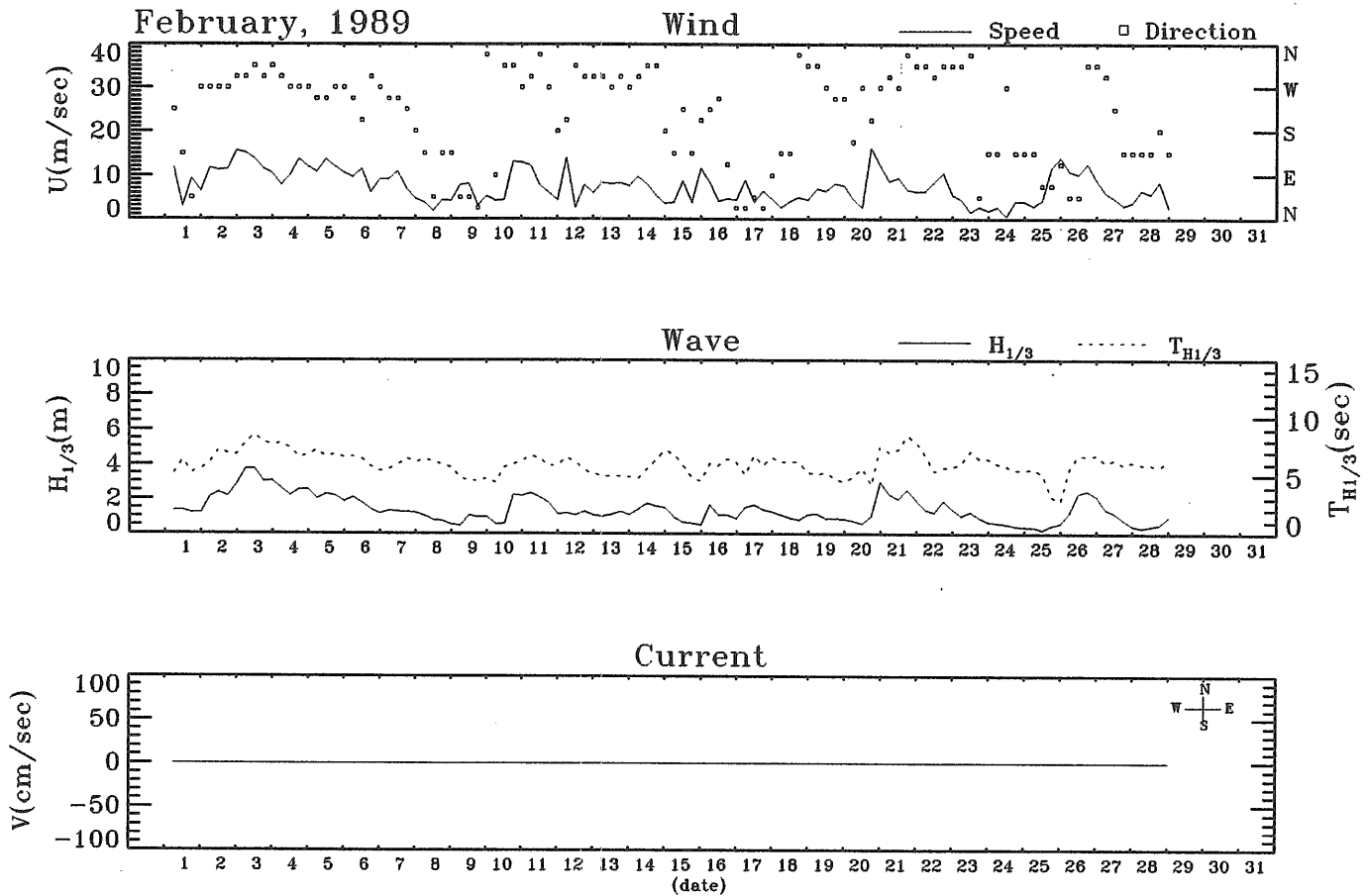
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	10.0976	21.9800	4.9057	80.65
Wave Hight($H_{1/3}$)	2.2239	5.2700	1.1688	80.65
Wave Period($T_{H_{1/3}}$)	7.3821	10.9800	1.2602	80.65
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.1278	.2995	.0663	80.65
Sway Acc.(Std.Dev.)	.1004	.2087	.0363	80.65
Heave Acc.(Std.Dev.)	.1618	.3625	.0932	80.65
Surge Motion(Std.Dev.)	.2454	.7857	.1775	80.65
Sway Motion(Std.Dev.)	.1828	.4611	.0820	80.65
Heave Motion(Std.Dev.)	.3484	1.0400	.2511	80.65
Roll Motion(Std.Dev.)	.5224	1.2090	.2774	80.65
Pitch Motion(Std.Dev.)	.6202	2.3050	.4230	80.65
Yaw Motion(Std.Dev.)	.6711	2.7940	.4397	80.65
Strain No. 1(Std.Dev.)	24.0232	43.3400	10.0407	80.65
Strain No. 9(Std.Dev.)	20.0683	37.4700	8.2538	80.65
Strain No.11(Std.Dev.)	16.1928	28.8600	6.8442	80.65



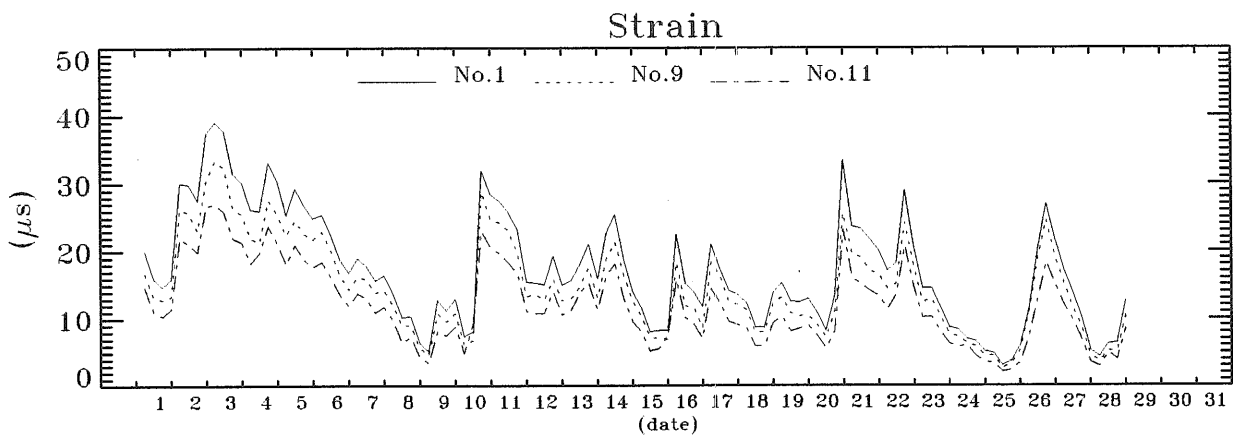
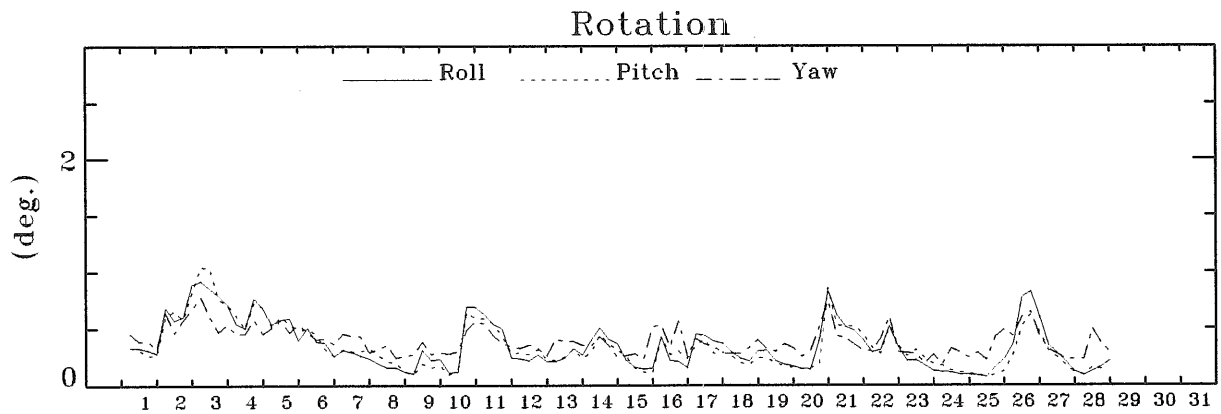
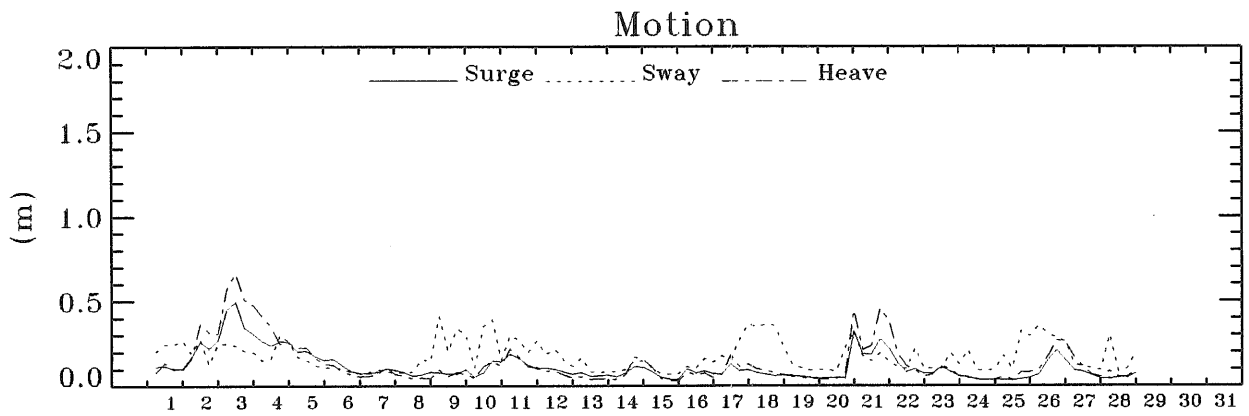
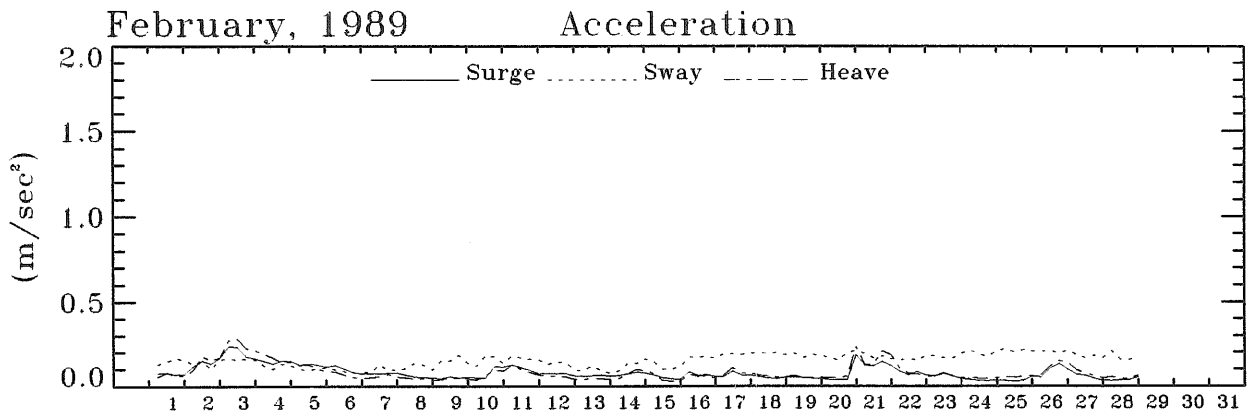


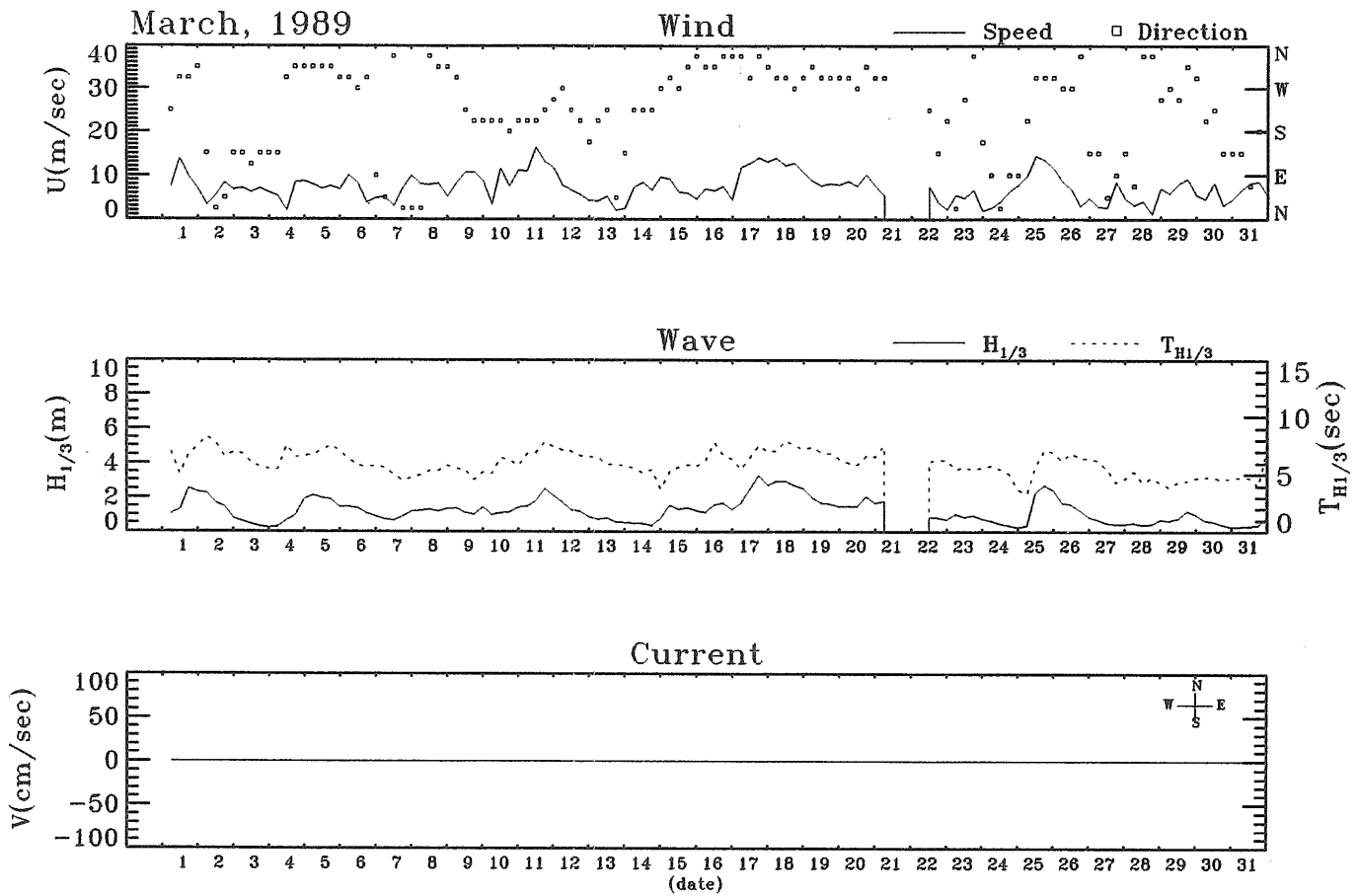
*** 月の統計量 <<< 1989 年 1 月 >>> ***				
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	7.8761	19.8500	4.2704	99.19
Wave Hight($H_{1/3}$)	1.6012	5.0200	1.0523	99.19
Wave Period($T_{H_{1/3}}$)	6.5581	9.7600	1.3363	99.19
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.0916	.2899	.0592	99.19
Sway Acc.(Std.Dev.)	.1160	.2284	.0476	99.19
Heave Acc.(Std.Dev.)	.1104	.3526	.0797	99.19
Surge Motion(Std.Dev.)	.1553	.7416	.1417	99.19
Sway Motion(Std.Dev.)	.1656	.4083	.0912	99.19
Heave Motion(Std.Dev.)	.2136	.9425	.2055	99.19
Roll Motion(Std.Dev.)	.3994	1.0470	.2450	99.19
Pitch Motion(Std.Dev.)	.4109	1.6770	.3191	99.19
Yaw Motion(Std.Dev.)	.4184	.9100	.1549	99.19
Strain No. 1(Std.Dev.)	17.7870	44.6200	10.5894	99.19
Strain No. 9(Std.Dev.)	15.3264	38.0300	8.9443	99.19
Strain No.11(Std.Dev.)	12.3558	30.1400	7.4367	99.19





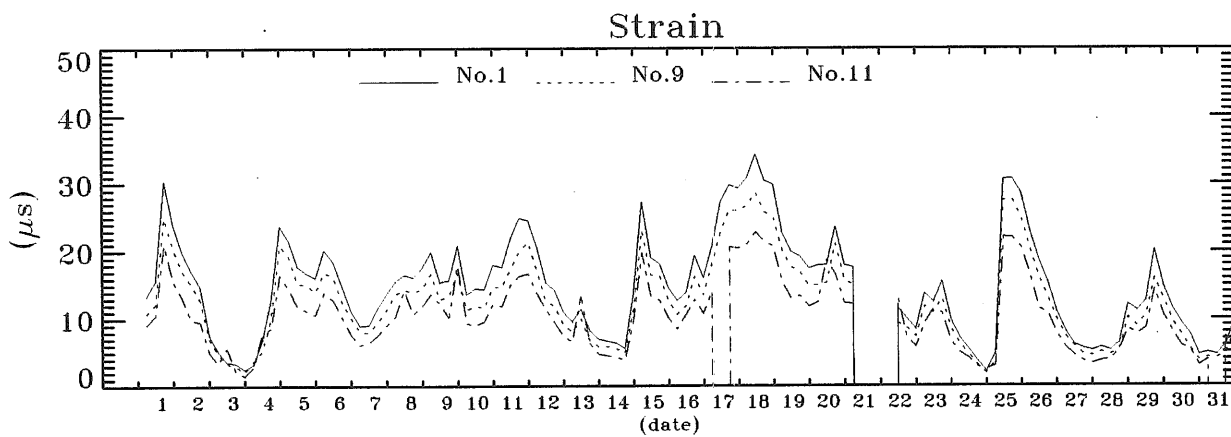
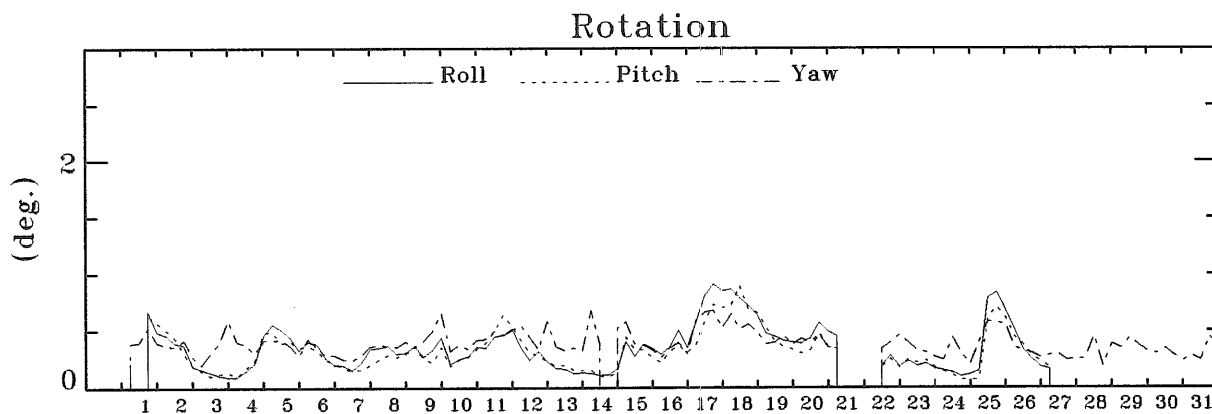
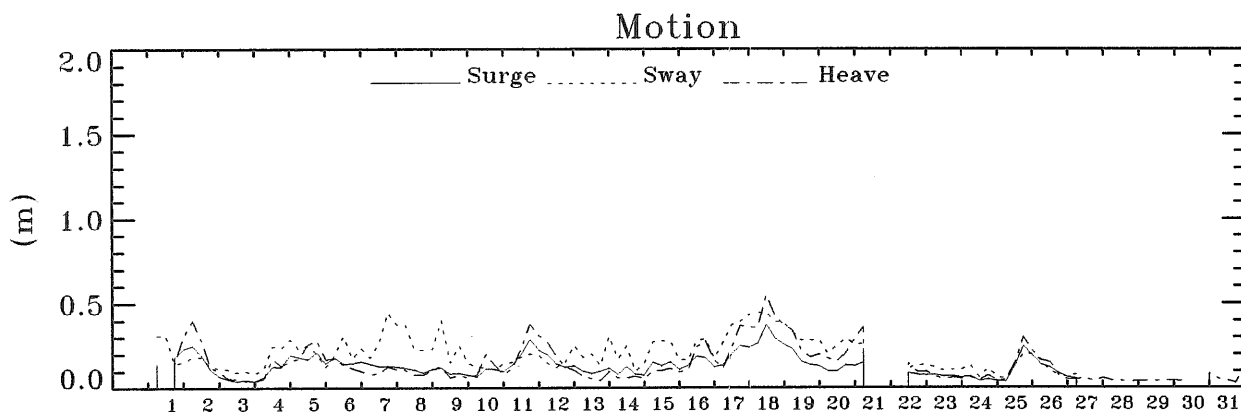
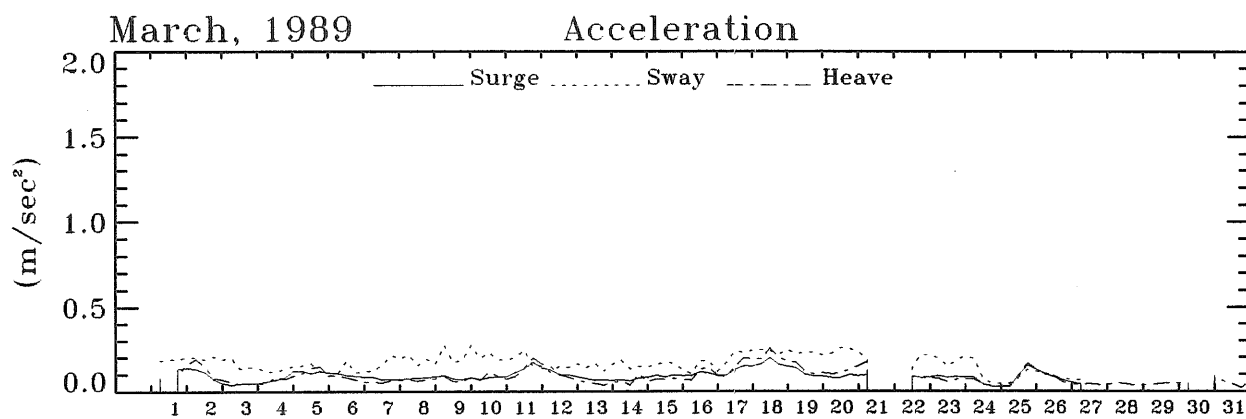
*** 月の統計量 <<< 1989 年 2 月 >>> ***				
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	7.4586	16.2300	3.6426	100.00
Wave Hight(H _{1/3})	1.3594	3.7400	.7486	100.00
Wave Period(T _{H1/3})	6.0198	8.5100	.9734	100.00
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.0777	.2352	.0422	100.00
Sway Acc.(Std.Dev.)	.1534	.2178	.0376	100.00
Heave Acc.(Std.Dev.)	.0822	.2817	.0518	100.00
Surge Motion(Std.Dev.)	.1137	.4928	.0851	100.00
Sway Motion(Std.Dev.)	.1772	.4106	.0888	100.00
Heave Motion(Std.Dev.)	.1332	.6645	.1238	100.00
Roll Motion(Std.Dev.)	.3474	.9185	.2103	100.00
Pitch Motion(Std.Dev.)	.3392	1.0440	.2055	100.00
Yaw Motion(Std.Dev.)	.3872	.7802	.1221	100.00
Strain No. 1(Std.Dev.)	17.1520	39.0500	8.3516	100.00
Strain No. 9(Std.Dev.)	14.7043	33.4400	7.0604	100.00
Strain No.11(Std.Dev.)	12.0754	27.0300	5.9563	100.00

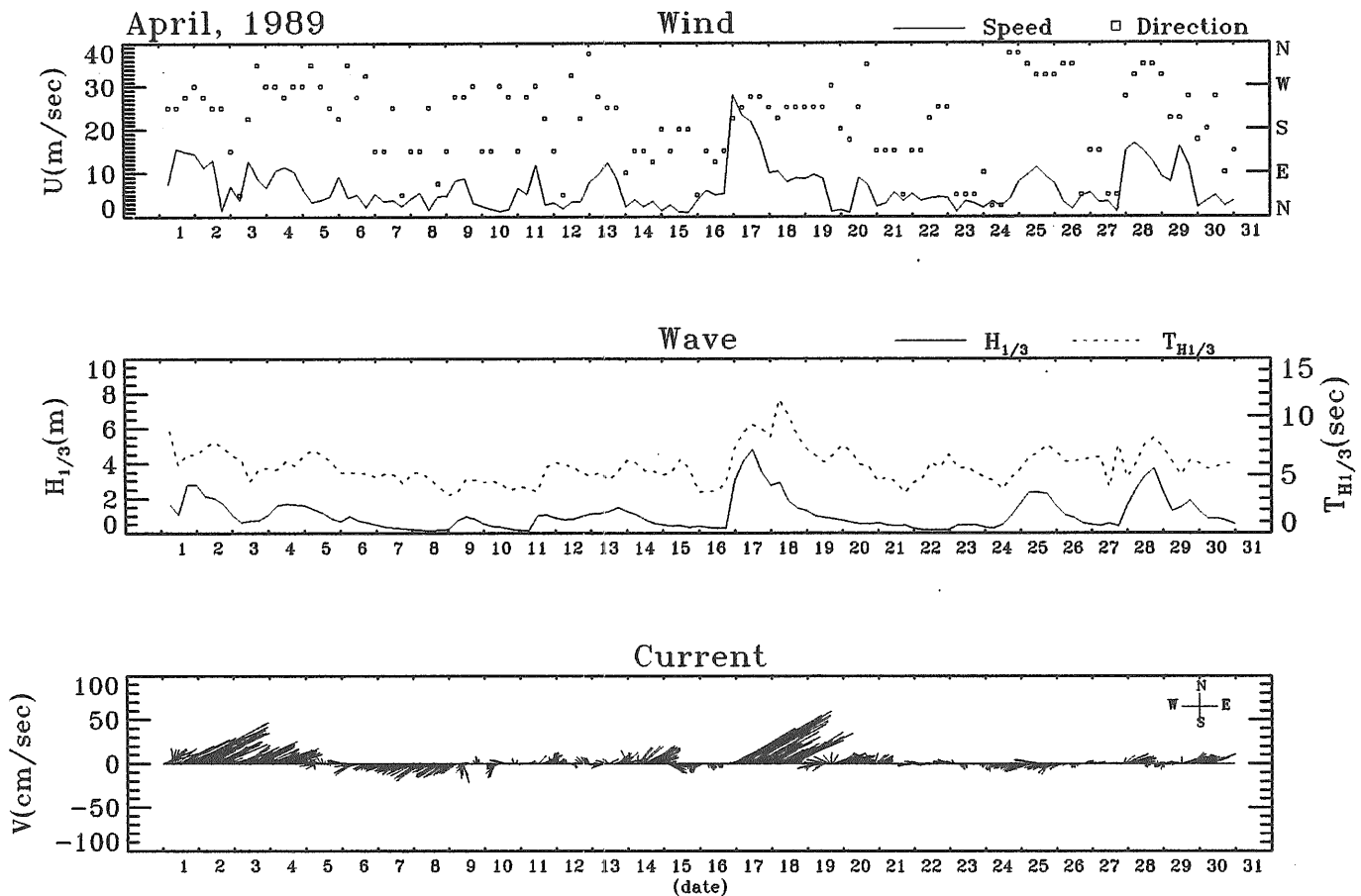




*** 月の統計量 <<< 1989 年 3 月 >>> ***

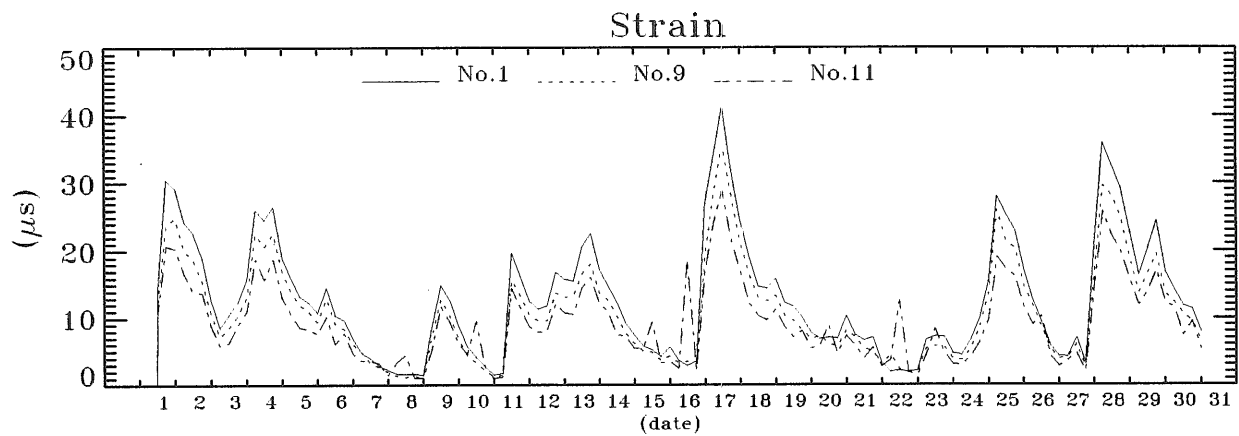
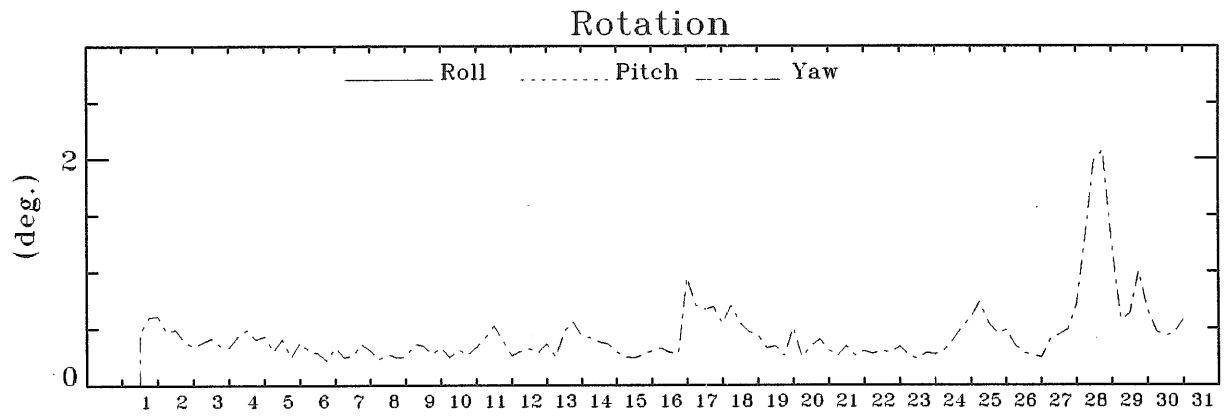
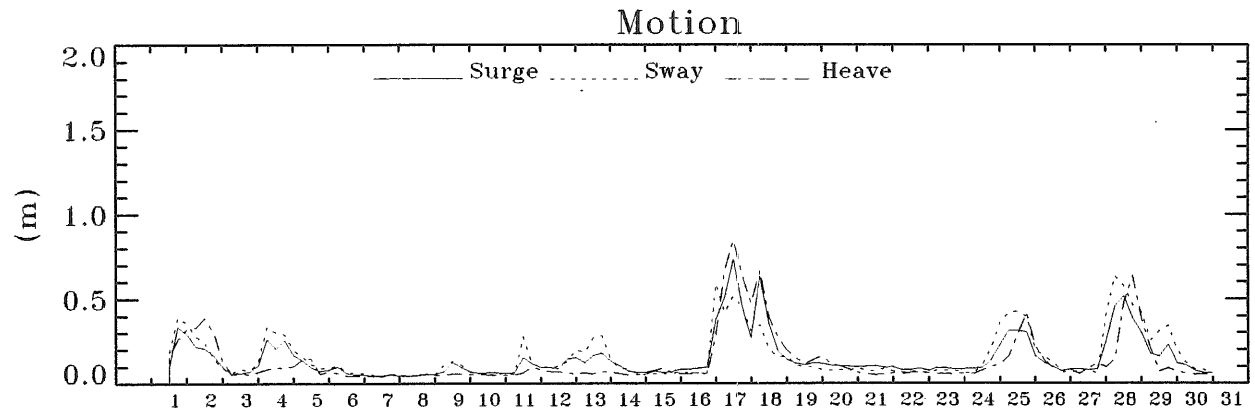
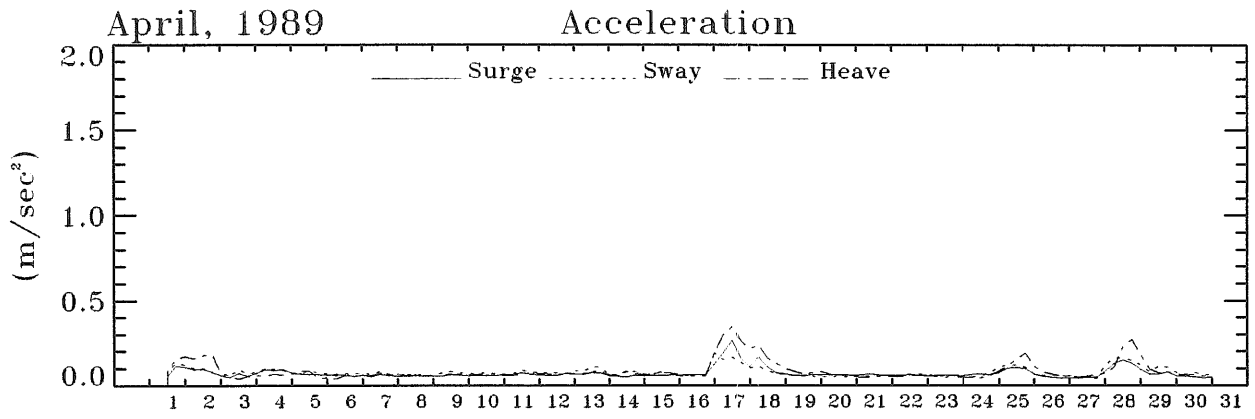
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	7.3224	16.2300	3.1090	96.77
Wave Hight($H_{1/3}$)	1.2064	3.2600	.7020	96.77
Wave Period($T_{H1/3}$)	5.9655	8.2700	1.0648	96.77
Current Speed (mean)	---	---	---	.00
(every hour)	---	---	---	.00
Surge Acc.(Std.Dev.)	.0894	.1949	.0318	80.65
Sway Acc.(Std.Dev.)	.1657	.2724	.0527	81.45
Heave Acc.(Std.Dev.)	.0870	.2532	.0461	94.35
Surge Motion(Std.Dev.)	.1316	.3726	.0646	80.65
Sway Motion(Std.Dev.)	.2073	.4467	.0977	81.45
Heave Motion(Std.Dev.)	.1405	.5451	.1055	94.35
Roll Motion(Std.Dev.)	.3463	.9063	.1974	80.65
Pitch Motion(Std.Dev.)	.3239	.8938	.1763	80.65
Yaw Motion(Std.Dev.)	.3875	.6769	.1080	95.97
Strain No. 1(Std.Dev.)	14.8327	34.2300	7.5638	96.77
Strain No. 9(Std.Dev.)	12.6962	28.6600	6.5181	96.77
Strain No.11(Std.Dev.)	10.5118	22.8500	5.1957	95.16

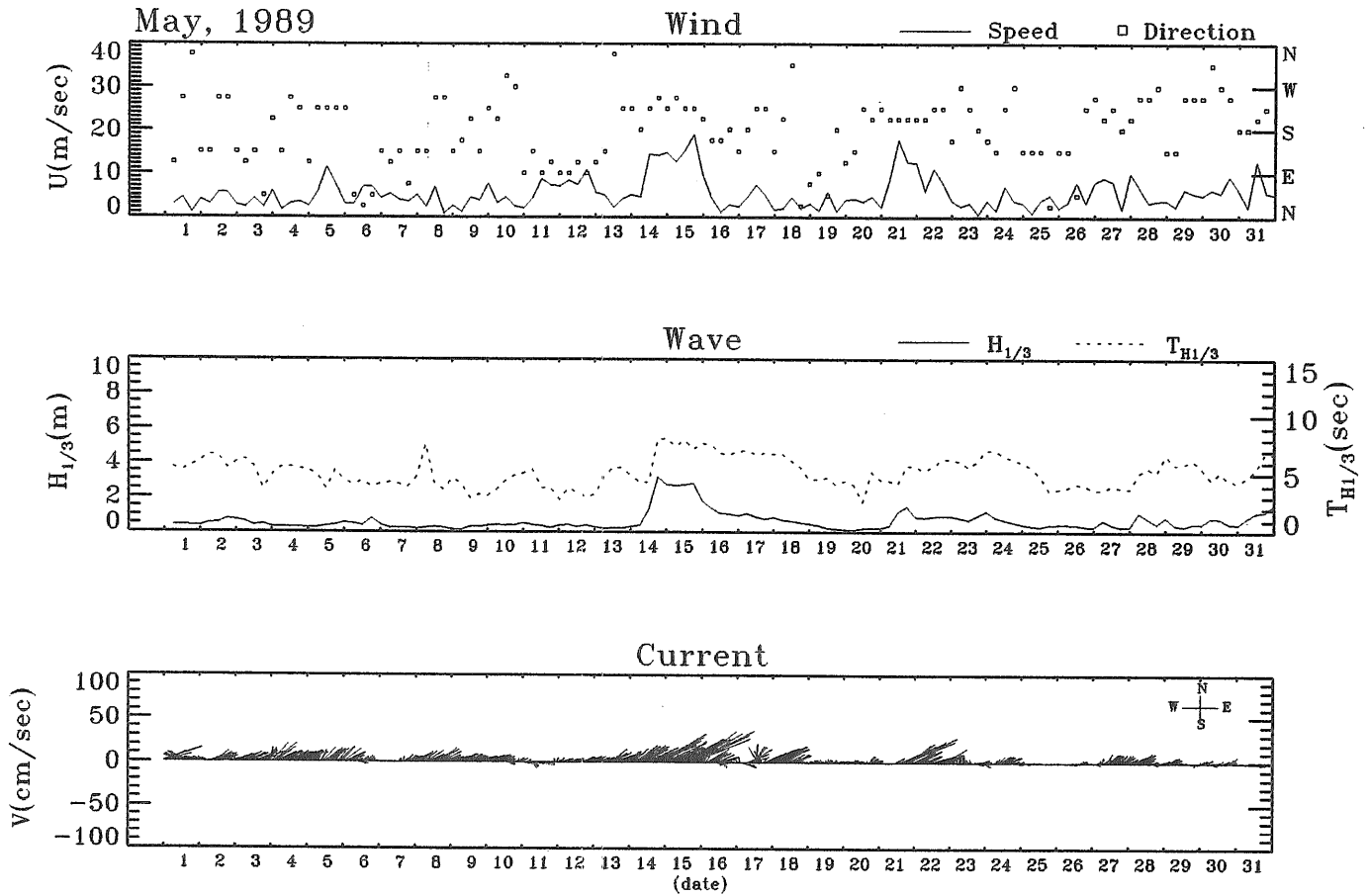




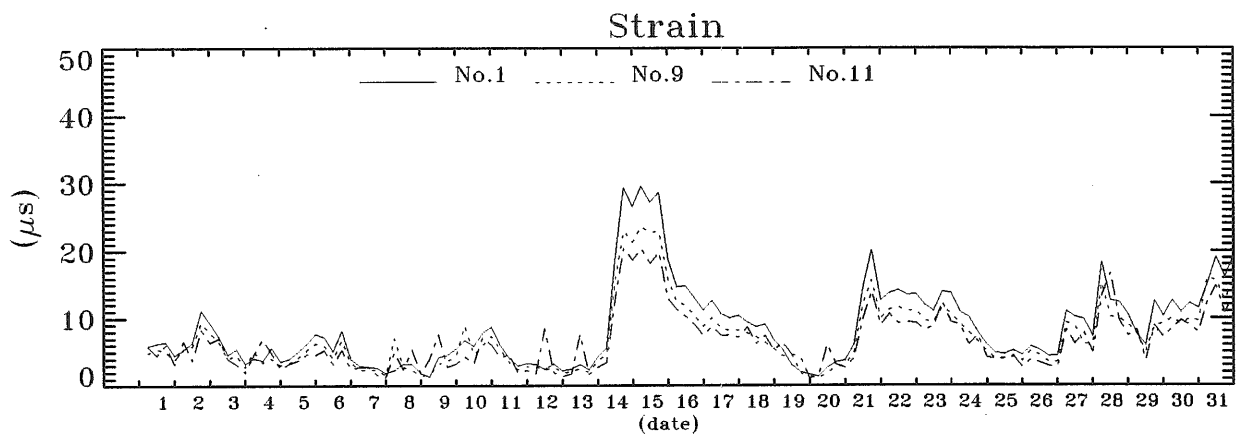
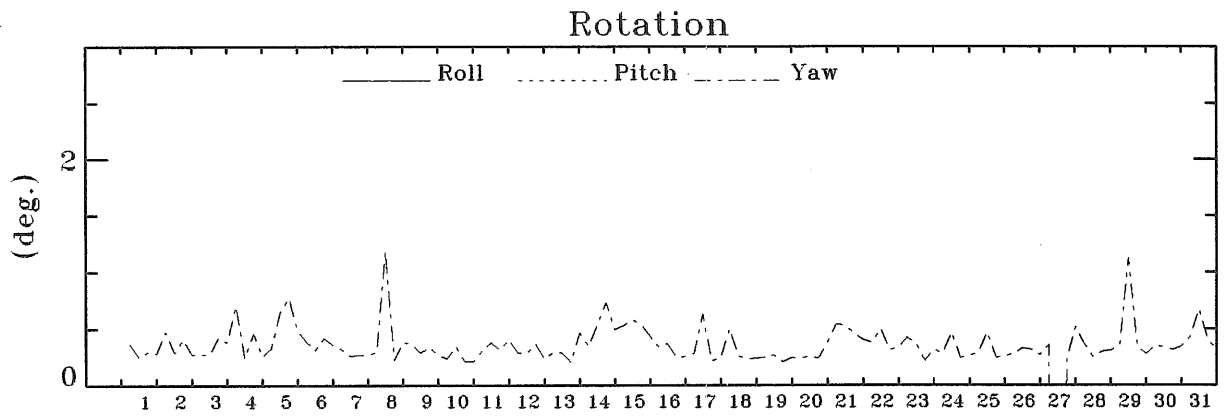
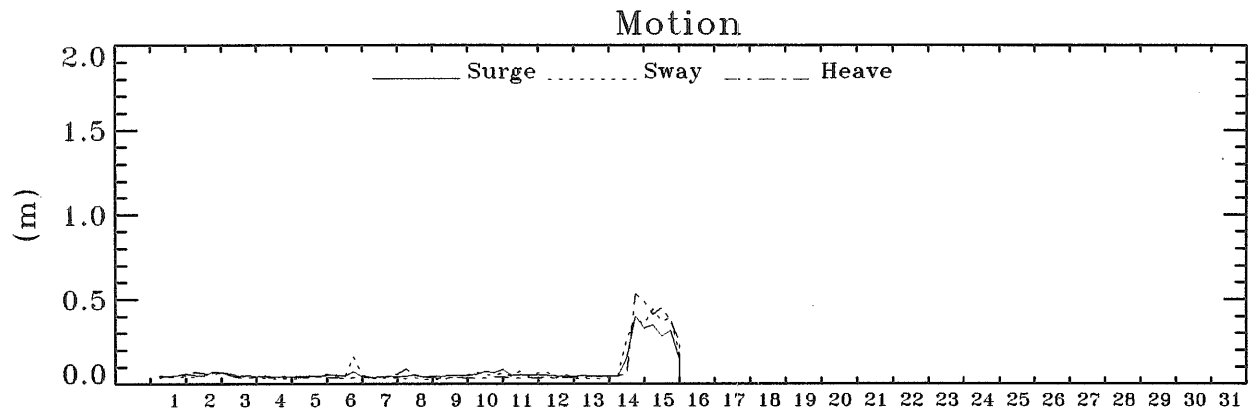
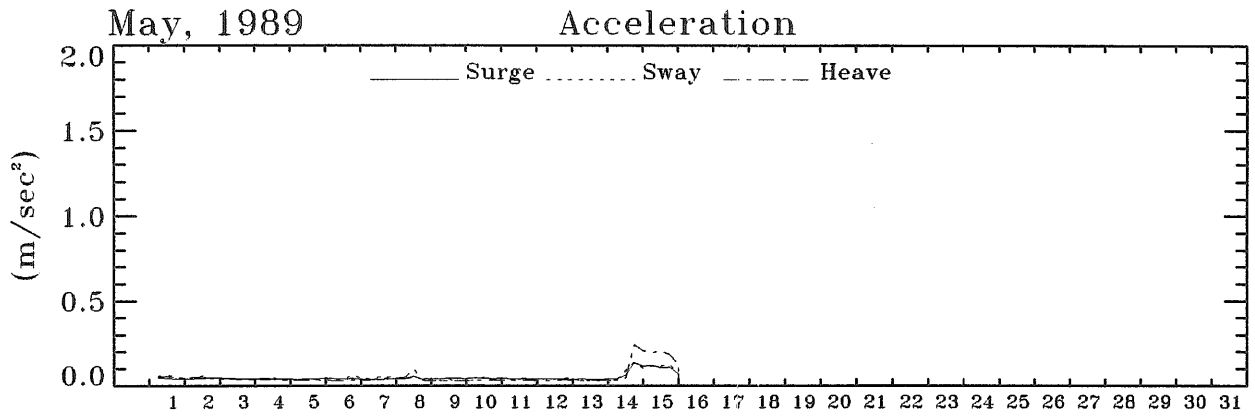
*** 月の統計量 <<< 1989 年 4 月 >>> ***

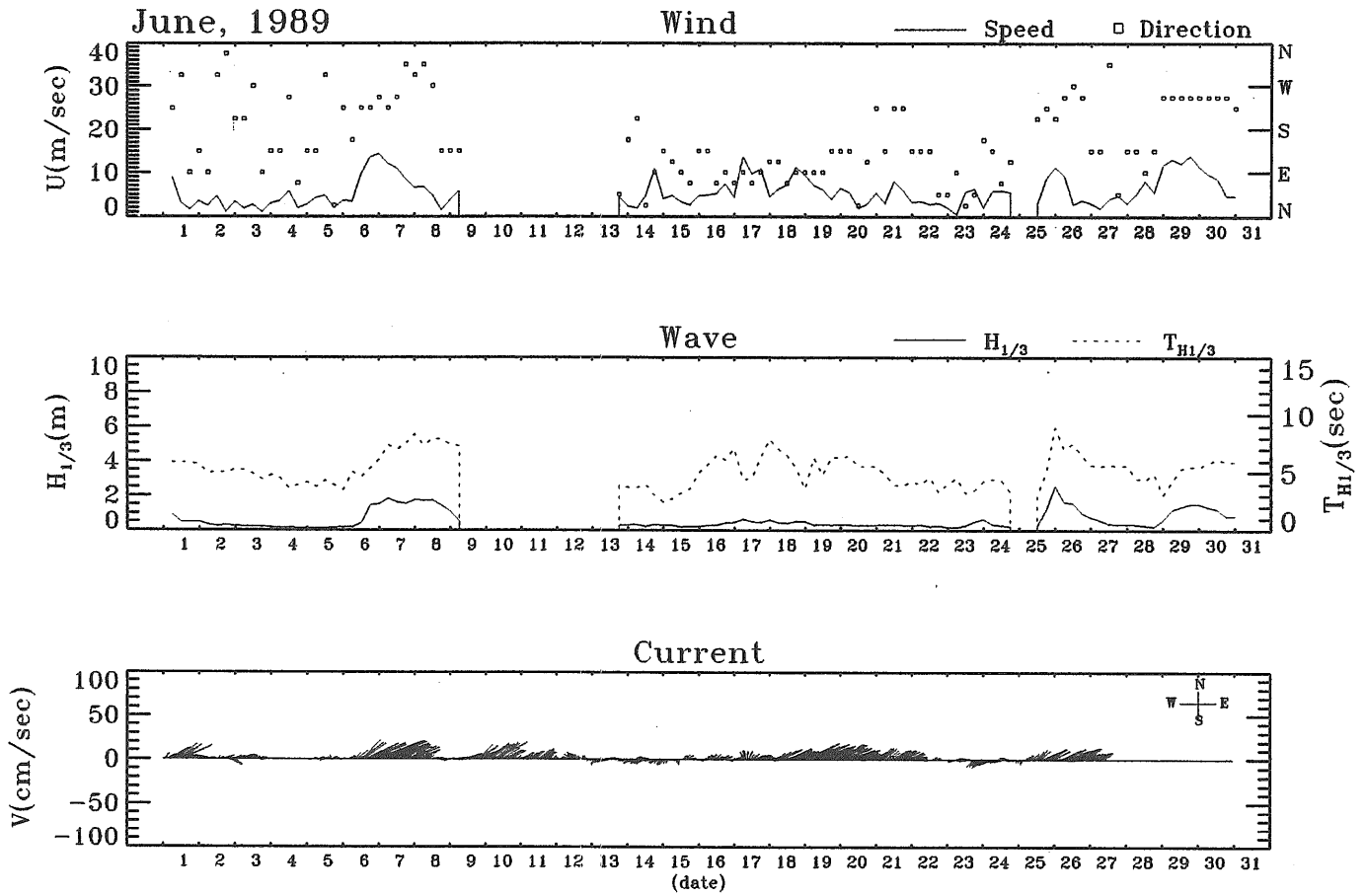
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	6.5122	27.8200	4.9336	100.00
Wave Hight($H_{1/3}$)	1.0612	4.7600	.9105	100.00
Wave Period($T_{H1/3}$)	5.8189	11.4700	1.4453	100.00
Current Speed (mean)	17.0876	99.1500	17.6624	98.33
(every hour)	16.7215	106.4200	17.7436	97.64
Surge Acc.(Std.Dev.)	.0706	.2630	.0308	99.17
Sway Acc.(Std.Dev.)	.0792	.1891	.0275	99.17
Heave Acc.(Std.Dev.)	.0863	.3444	.0564	99.17
Surge Motion(Std.Dev.)	.1446	.7316	.1229	99.17
Sway Motion(Std.Dev.)	.1605	.6347	.1373	99.17
Heave Motion(Std.Dev.)	.1344	.8472	.1513	99.17
Roll Motion(Std.Dev.)	---	---	---	.00
Pitch Motion(Std.Dev.)	---	---	---	.00
Yaw Motion(Std.Dev.)	.4380	2.0700	.2775	99.17
Strain No. 1(Std.Dev.)	12.7296	41.2400	8.8014	99.17
Strain No. 9(Std.Dev.)	10.8230	35.6700	7.3687	99.17
Strain No.11(Std.Dev.)	9.4137	28.8000	5.9066	99.17





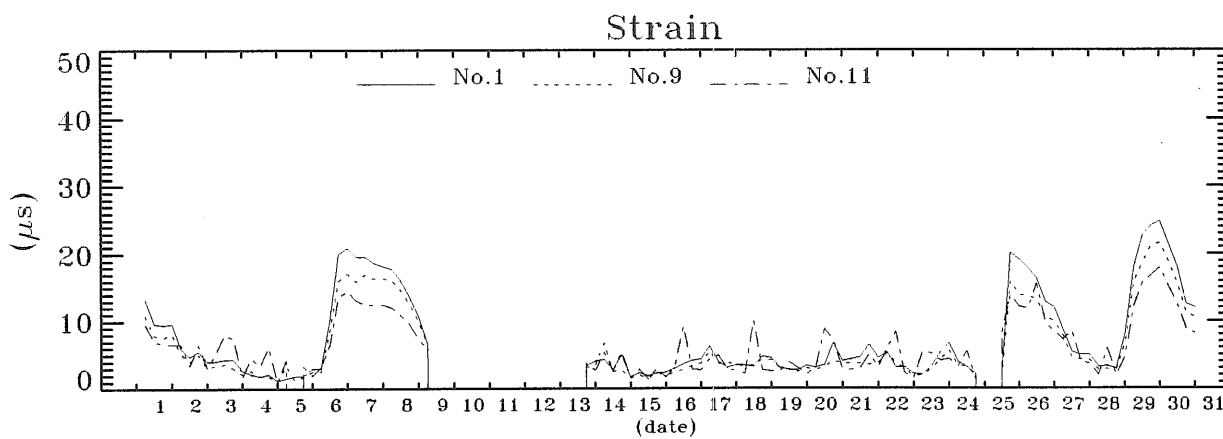
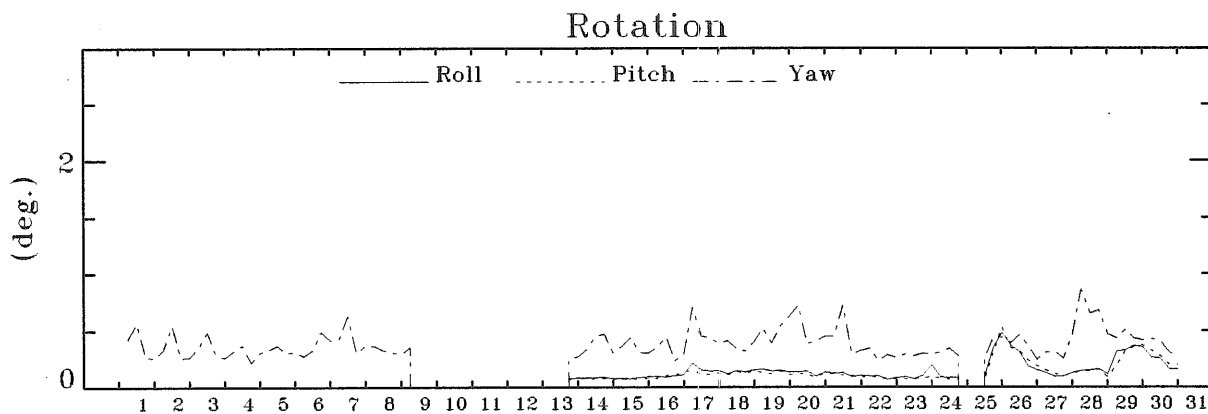
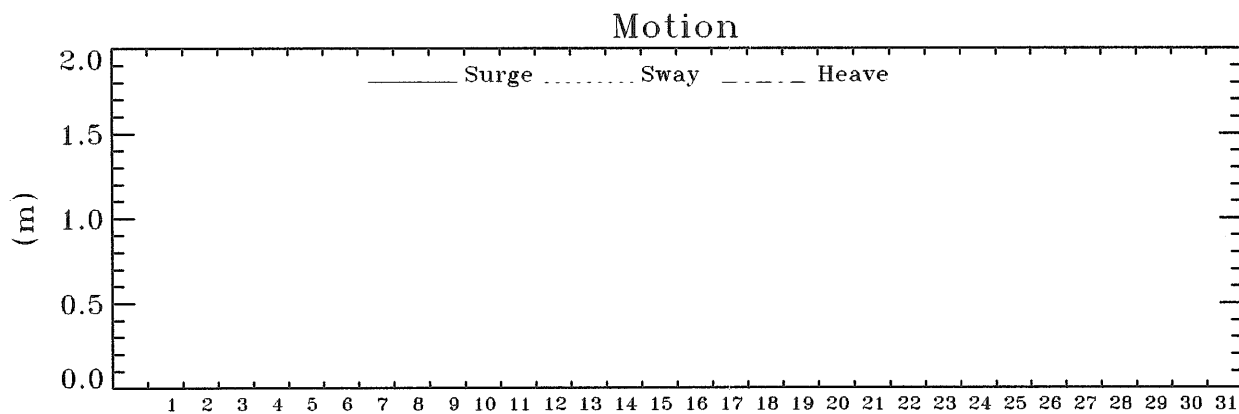
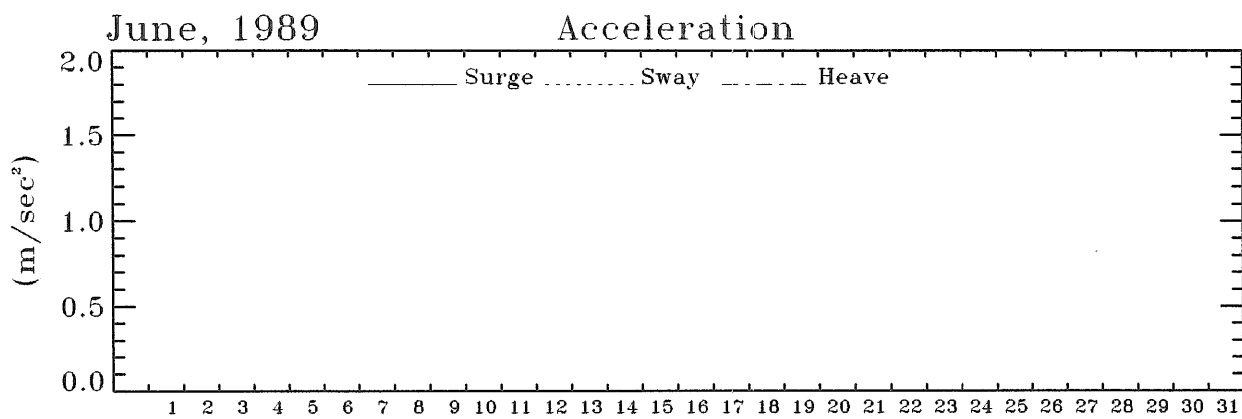
*** 月の統計量 <<< 1989 年 5 月 >>> ***				
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	5.3990	18.8600	3.6191	100.00
Wave Hight($H_{1/3}$)	.6369	3.1500	.5557	100.00
Wave Period($T_{H_{1/3}}$)	5.1844	8.1000	1.2705	100.00
Current Speed (mean)	11.9833	59.4800	11.0562	99.19
(every hour)	12.0746	64.8800	10.8815	100.00
Surge Acc.(Std.Dev.)	.0470	.1348	.0219	48.39
Sway Acc.(Std.Dev.)	.0486	.1401	.0247	48.39
Heave Acc.(Std.Dev.)	.0533	.2425	.0494	48.39
Surge Motion(Std.Dev.)	.0764	.3992	.0809	48.39
Sway Motion(Std.Dev.)	.0805	.4419	.1005	48.39
Heave Motion(Std.Dev.)	.0812	.5335	.1161	48.39
Roll Motion(Std.Dev.)	---	---	---	.00
Pitch Motion(Std.Dev.)	---	---	---	.00
Yaw Motion(Std.Dev.)	.3651	1.1850	.1549	99.19
Strain No. 1(Std.Dev.)	8.5418	29.5500	6.1019	100.00
Strain No. 9(Std.Dev.)	7.1621	23.6300	4.8930	100.00
Strain No.11(Std.Dev.)	6.6574	20.5000	4.2234	100.00

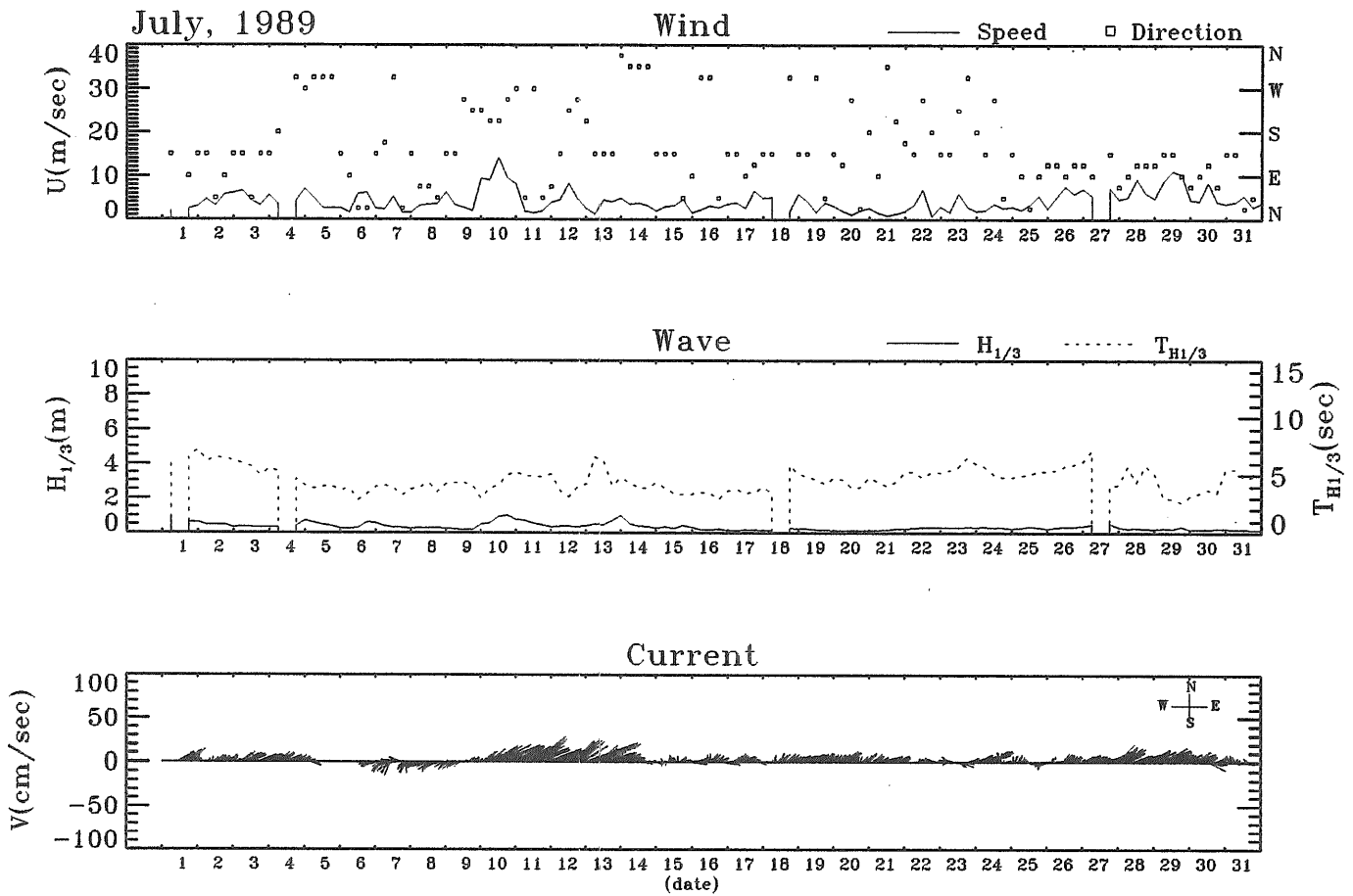




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 *** 月の統計量 <<< 1989 年 6 月 >>> ***
 I T E M : Mean Maximum Std.Dev. 測得率(%)

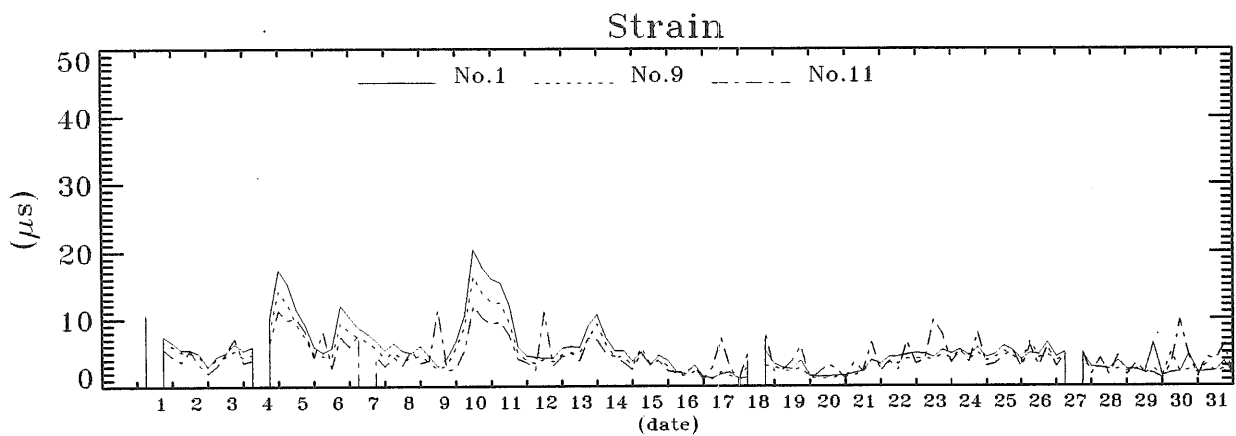
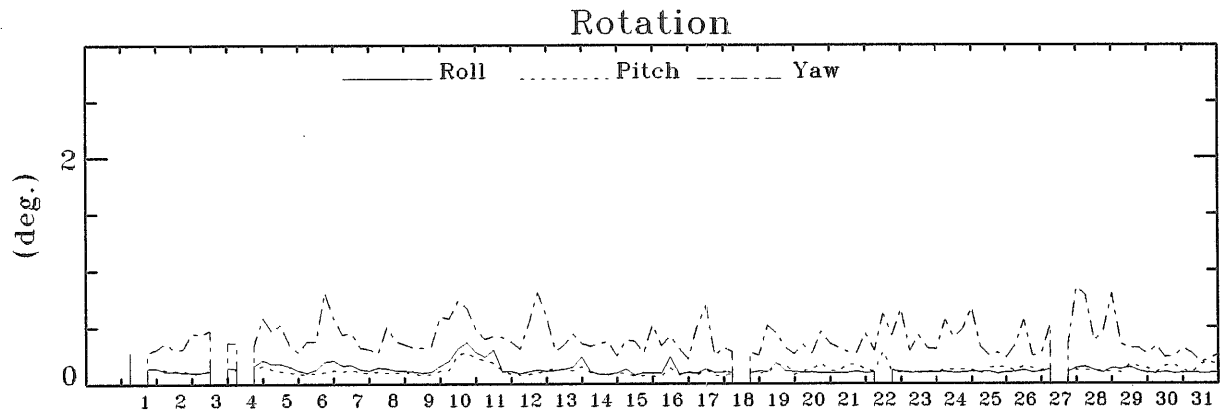
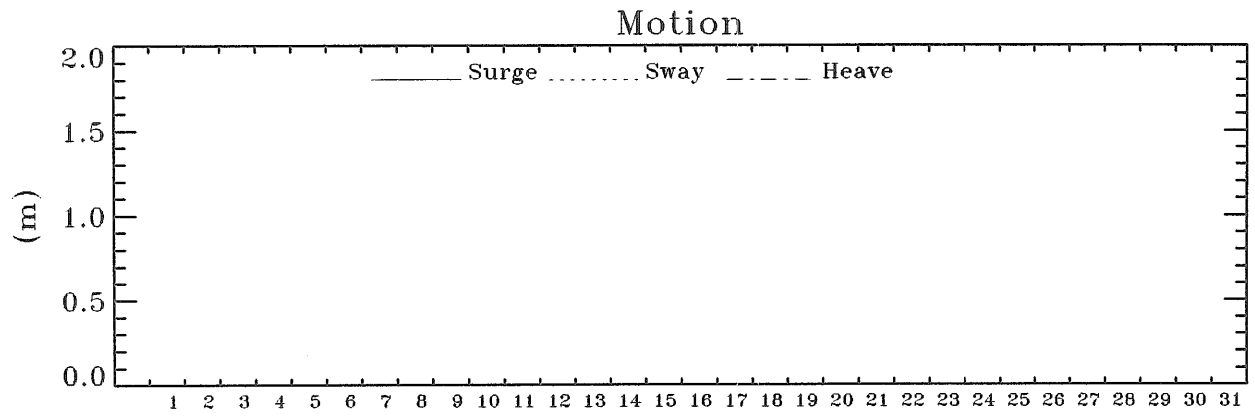
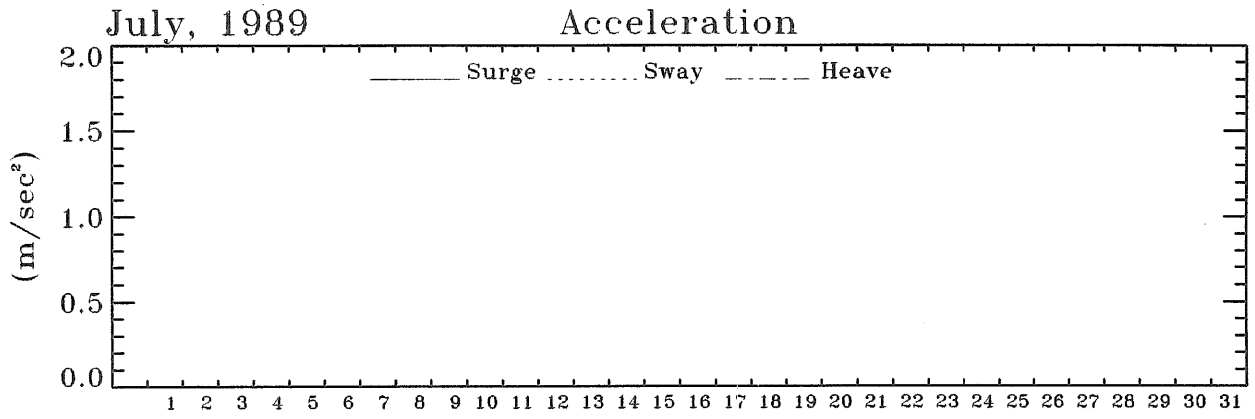
 Wind Speed (mean) 5.6144 14.3100 3.3773 84.17
 Wave Hight($H_{1/3}$) .5718 2.5300 .5169 84.17
 Wave Period($T_{H_{1/3}}$) 5.1907 8.9200 1.3888 84.17
 Current Speed (mean) 11.7909 43.2200 9.8147 87.50
 (every hour) 11.6727 46.0200 9.7557 87.64
 Surge Acc.(Std.Dev.) --- --- --- .00
 Sway Acc.(Std.Dev.) --- --- --- .00
 Heave Acc.(Std.Dev.) --- --- --- .00
 Surge Motion(Std.Dev.) --- --- --- .00
 Sway Motion(Std.Dev.) --- --- --- .00
 Heave Motion(Std.Dev.) --- --- --- .00
 Roll Motion(Std.Dev.) .1456 .4794 .0879 56.67
 Pitch Motion(Std.Dev.) .1413 .5274 .0920 56.67
 Yaw Motion(Std.Dev.) .3834 .8620 .1228 84.17
 Strain No. 1(Std.Dev.) 7.4117 24.8100 6.3871 84.17
 Strain No. 9(Std.Dev.) 6.4154 21.6000 5.3544 84.17
 Strain No.11(Std.Dev.) 6.3158 17.9600 4.1529 83.33
 =====

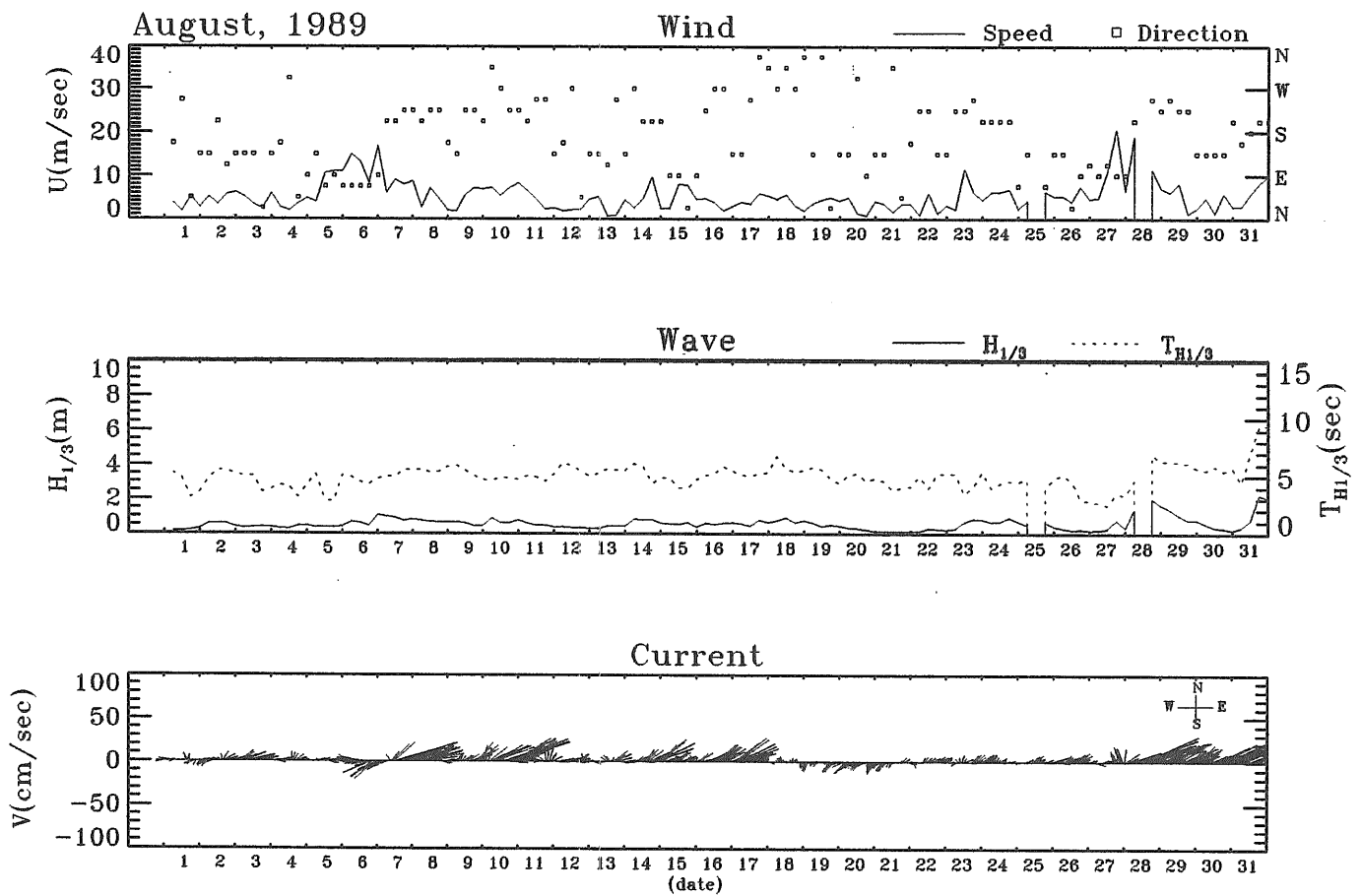




*** 月の統計量 <<< 1989 年 7 月 >>> ***

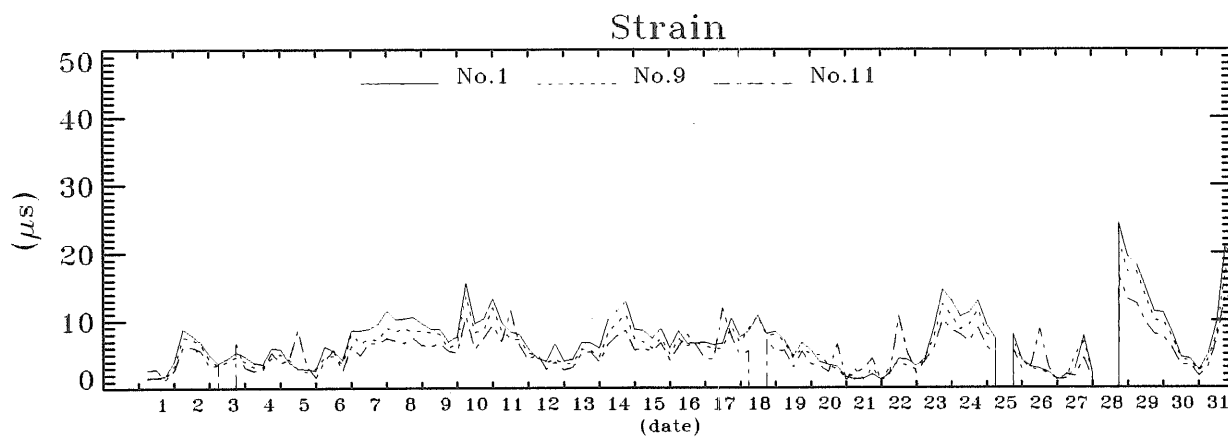
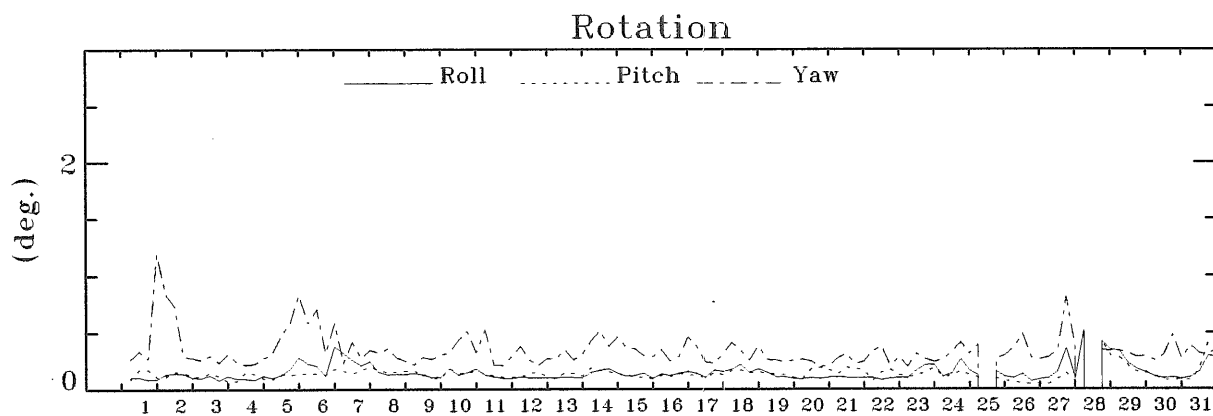
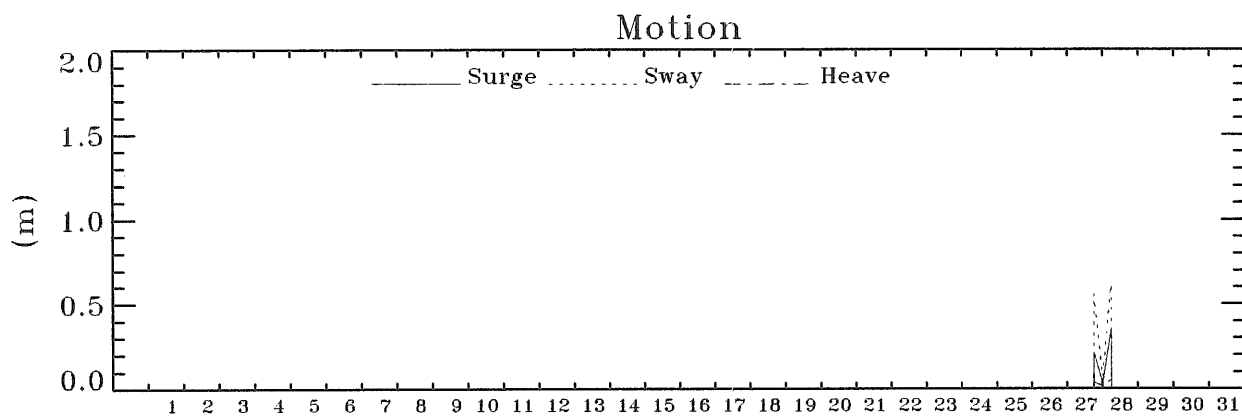
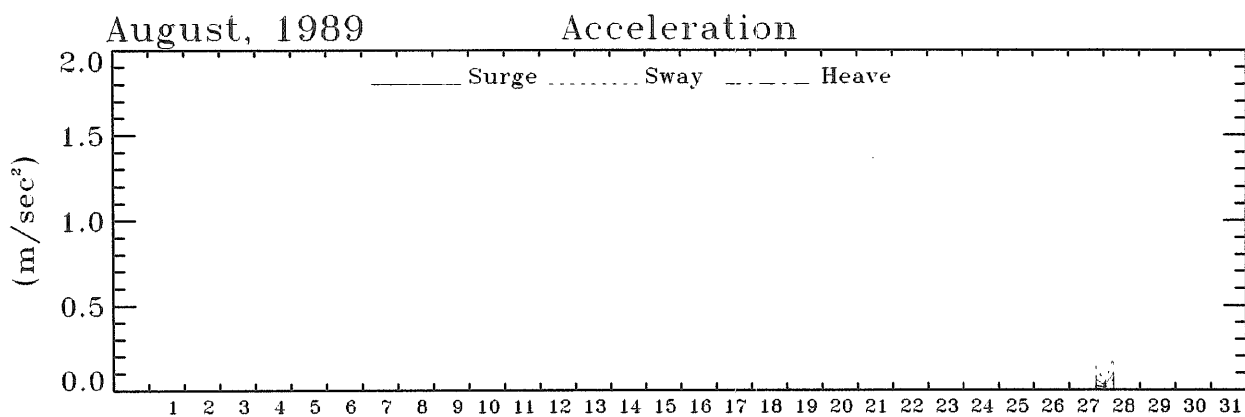
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	4.1920	14.0100	2.3922	96.77
Wave Hight($H_{1/3}$)	.3339	.9900	.1765	96.77
Wave Period($T_{H_{1/3}}$)	4.5962	7.2300	1.0214	96.77
Current Speed (mean)	12.5222	53.2000	9.3763	98.39
(every hour)	12.5386	53.2000	9.5689	98.52
Surge Acc.(Std.Dev.)	---	---	---	.00
Sway Acc.(Std.Dev.)	---	---	---	.00
Heave Acc.(Std.Dev.)	---	---	---	.00
Surge Motion(Std.Dev.)	---	---	---	.00
Sway Motion(Std.Dev.)	---	---	---	.00
Heave Motion(Std.Dev.)	---	---	---	.00
Roll Motion(Std.Dev.)	.1234	.3646	.0491	95.16
Pitch Motion(Std.Dev.)	.1214	.2809	.0392	95.97
Yaw Motion(Std.Dev.)	.3976	.8526	.1448	95.97
Strain No. 1(Std.Dev.)	5.2950	20.3400	3.6168	96.77
Strain No. 9(Std.Dev.)	4.5163	16.3700	2.8715	96.77
Strain No.11(Std.Dev.)	4.6223	11.9100	2.5533	95.97

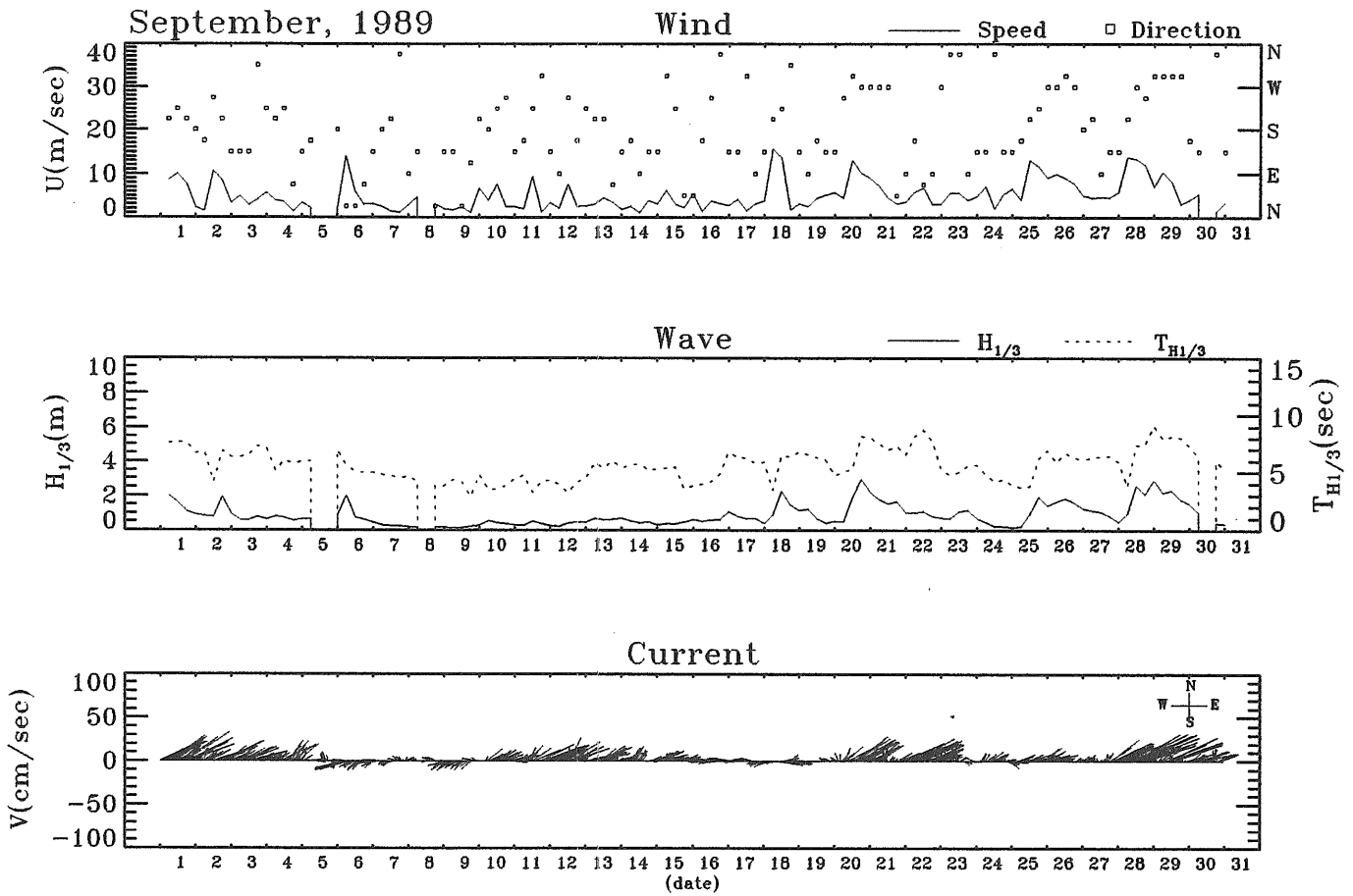




*** 月の統計量 <<< 1989 年 8 月 >>> ***

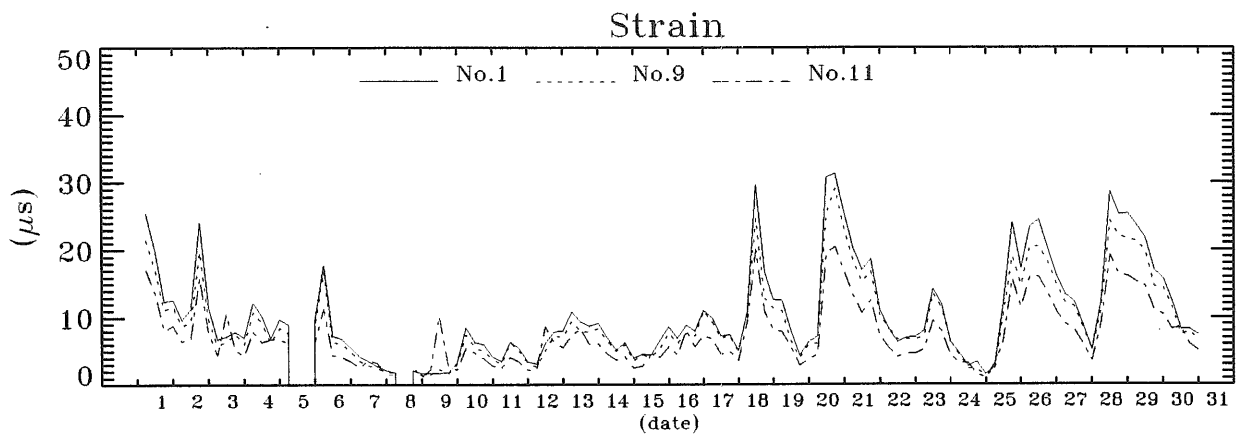
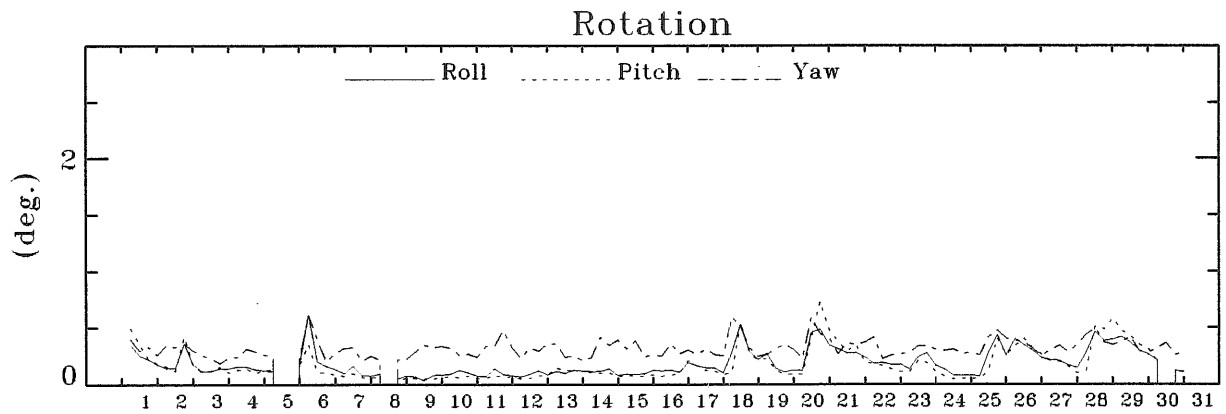
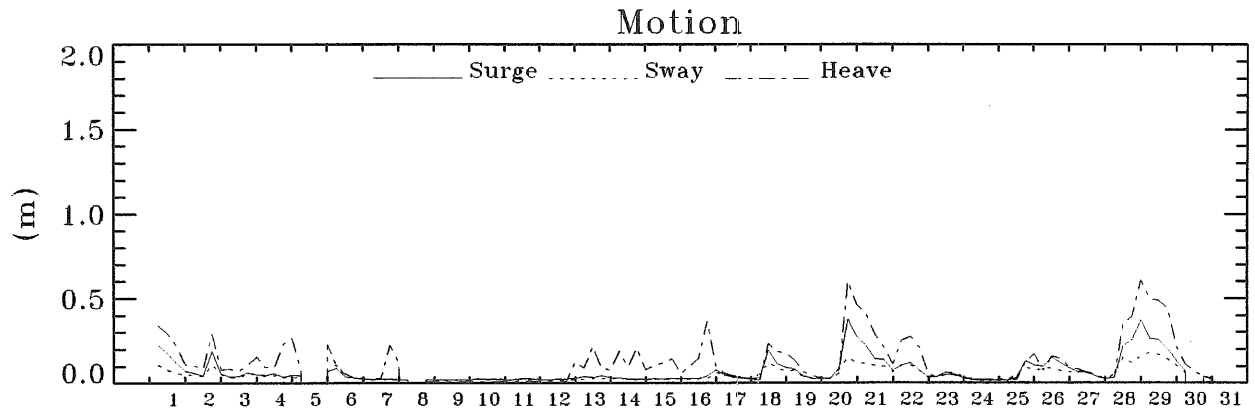
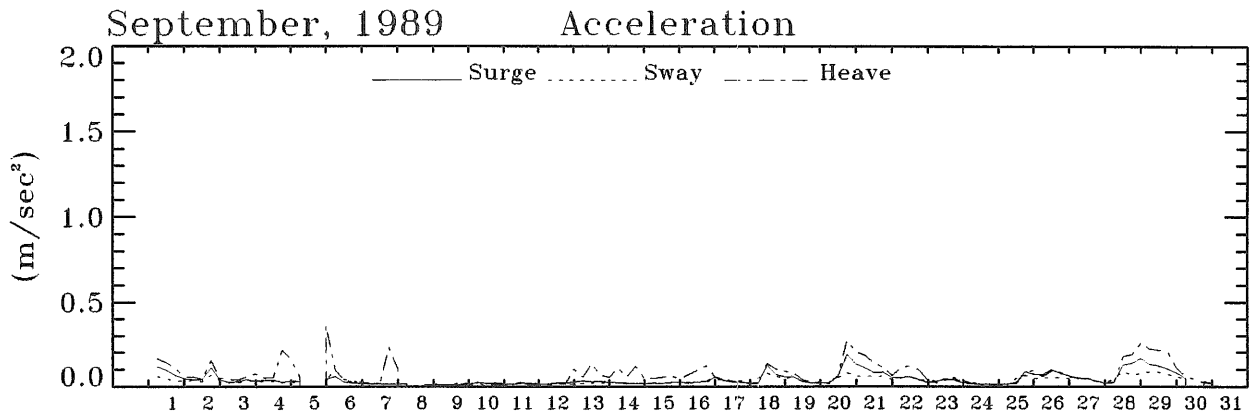
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	5.3076	20.6200	3.5148	98.39
Wave Hight(H _{1/3})	.5521	2.2400	.3662	98.39
Wave Period(T _{H_{1/3}})	4.9605	9.4500	1.0626	98.39
Current Speed (mean)	14.8235	60.1500	12.6152	98.39
(every hour)	14.5349	74.7900	12.3062	99.06
Surge Acc.(Std.Dev.)	.0577	.0945	.0298	2.42
Sway Acc.(Std.Dev.)	.1212	.1889	.0629	2.42
Heave Acc.(Std.Dev.)	.0310	.0583	.0200	2.42
Surge Motion(Std.Dev.)	.1993	.3541	.1322	2.42
Sway Motion(Std.Dev.)	.4230	.6430	.2536	2.42
Heave Motion(Std.Dev.)	.0344	.0527	.0156	2.42
Roll Motion(Std.Dev.)	.1454	.5216	.0757	98.39
Pitch Motion(Std.Dev.)	.1379	.4227	.0597	97.58
Yaw Motion(Std.Dev.)	.3428	1.1900	.1474	97.58
Strain No. 1(Std.Dev.)	7.1731	24.4100	4.2976	97.58
Strain No. 9(Std.Dev.)	6.3881	21.8000	3.6532	97.58
Strain No.11(Std.Dev.)	5.6001	16.4300	2.8993	95.97

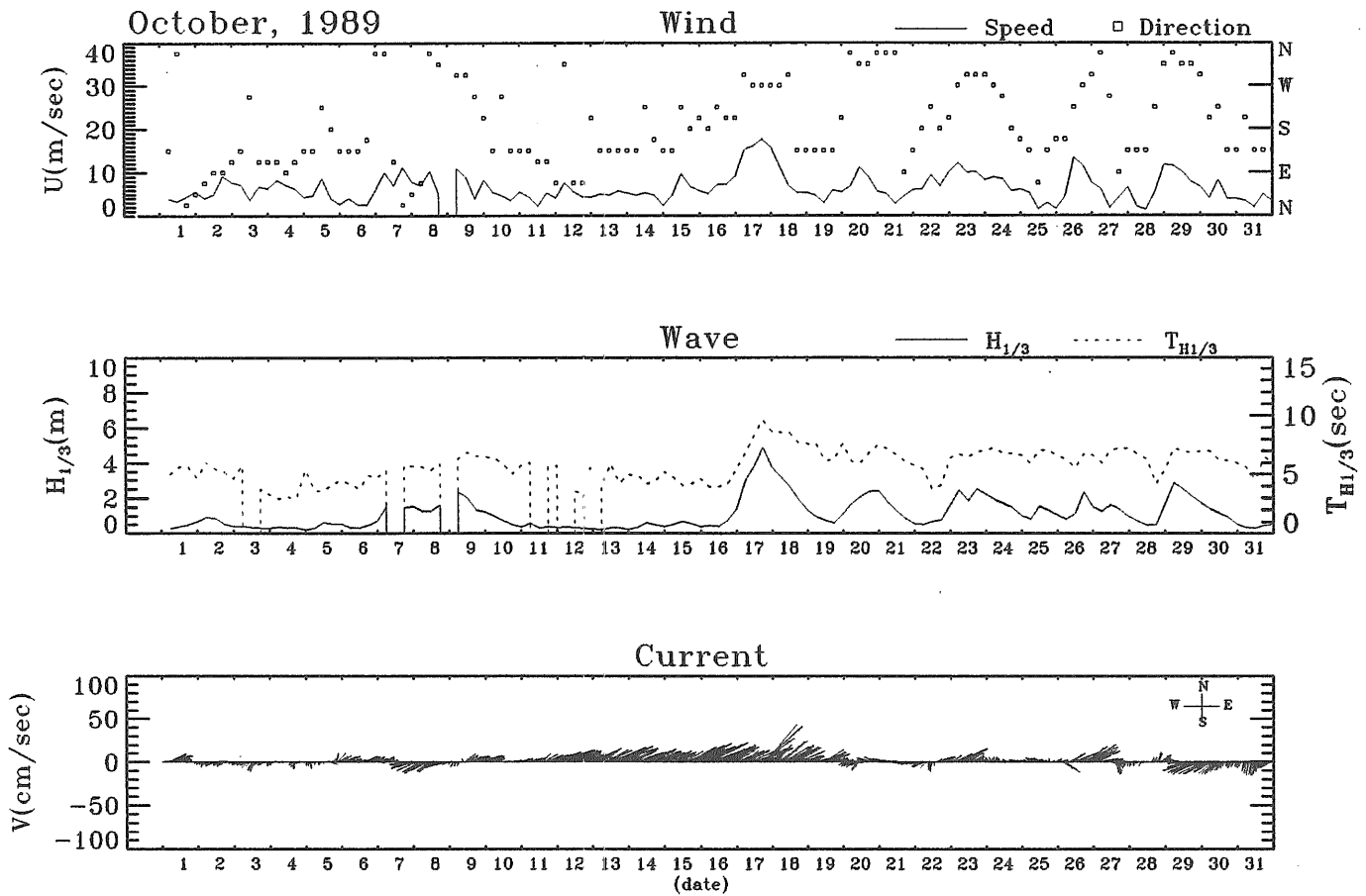




*** 月の統計量 <<< 1989 年 9 月 >>> ***

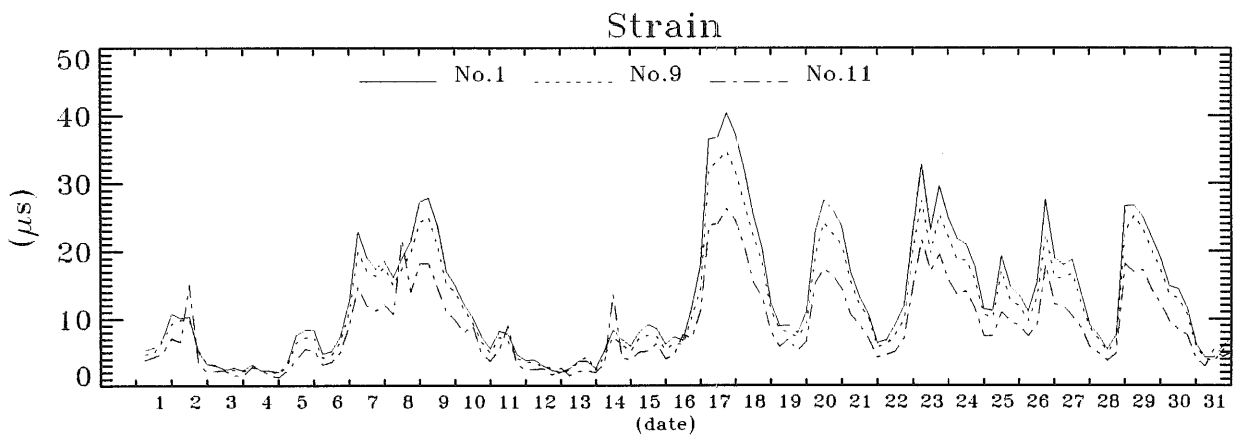
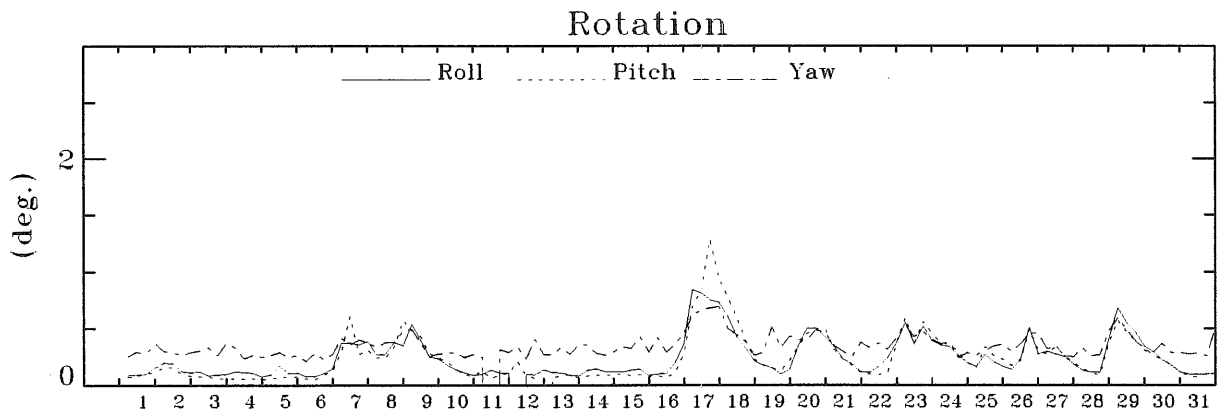
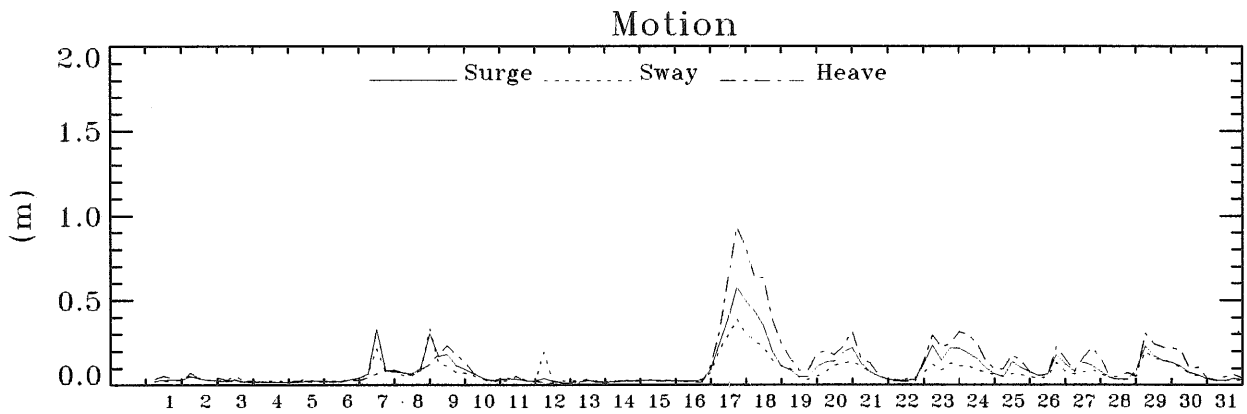
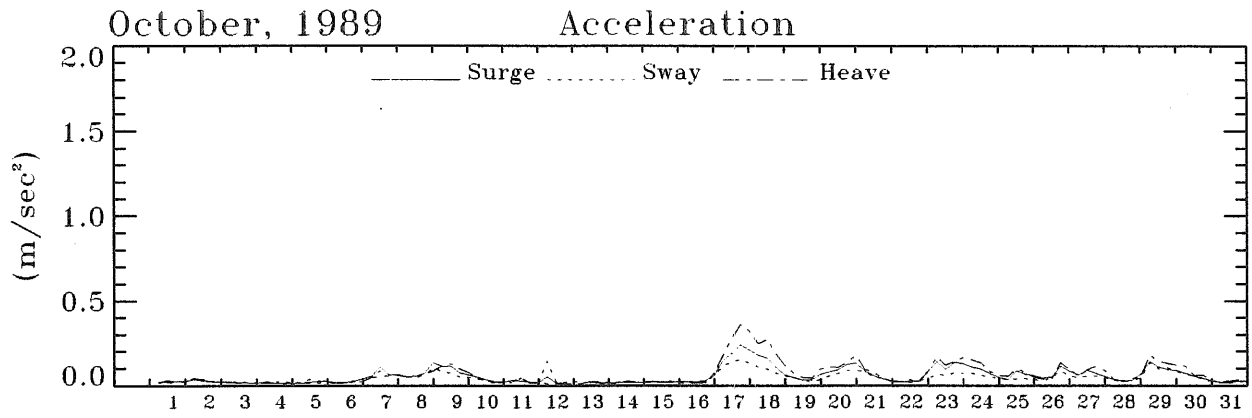
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	5.0503	15.6400	3.3928	96.67
Wave Hight($H_{1/3}$)	.8661	2.9400	.6362	96.67
Wave Period($T_{H_{1/3}}$)	5.6718	9.1300	1.3867	96.67
Current Speed (mean)	17.0892	61.1800	13.0118	99.17
(every hour)	16.8987	62.9900	12.7483	99.86
Surge Acc.(Std.Dev.)	.0417	.1857	.0365	96.67
Sway Acc.(Std.Dev.)	.0354	.0949	.0198	96.67
Heave Acc.(Std.Dev.)	.0719	.3604	.0670	96.67
Surge Motion(Std.Dev.)	.0682	.3766	.0737	96.67
Sway Motion(Std.Dev.)	.0521	.1797	.0384	96.67
Heave Motion(Std.Dev.)	.1258	.6092	.1322	96.67
Roll Motion(Std.Dev.)	.1822	.6115	.1143	96.67
Pitch Motion(Std.Dev.)	.1733	.7290	.1391	96.67
Yaw Motion(Std.Dev.)	.3174	.6111	.0803	97.50
Strain No. 1(Std.Dev.)	10.4335	31.2500	7.1851	97.50
Strain No. 9(Std.Dev.)	9.3423	29.1300	6.1768	97.50
Strain No.11(Std.Dev.)	7.2824	20.4300	4.6196	97.50

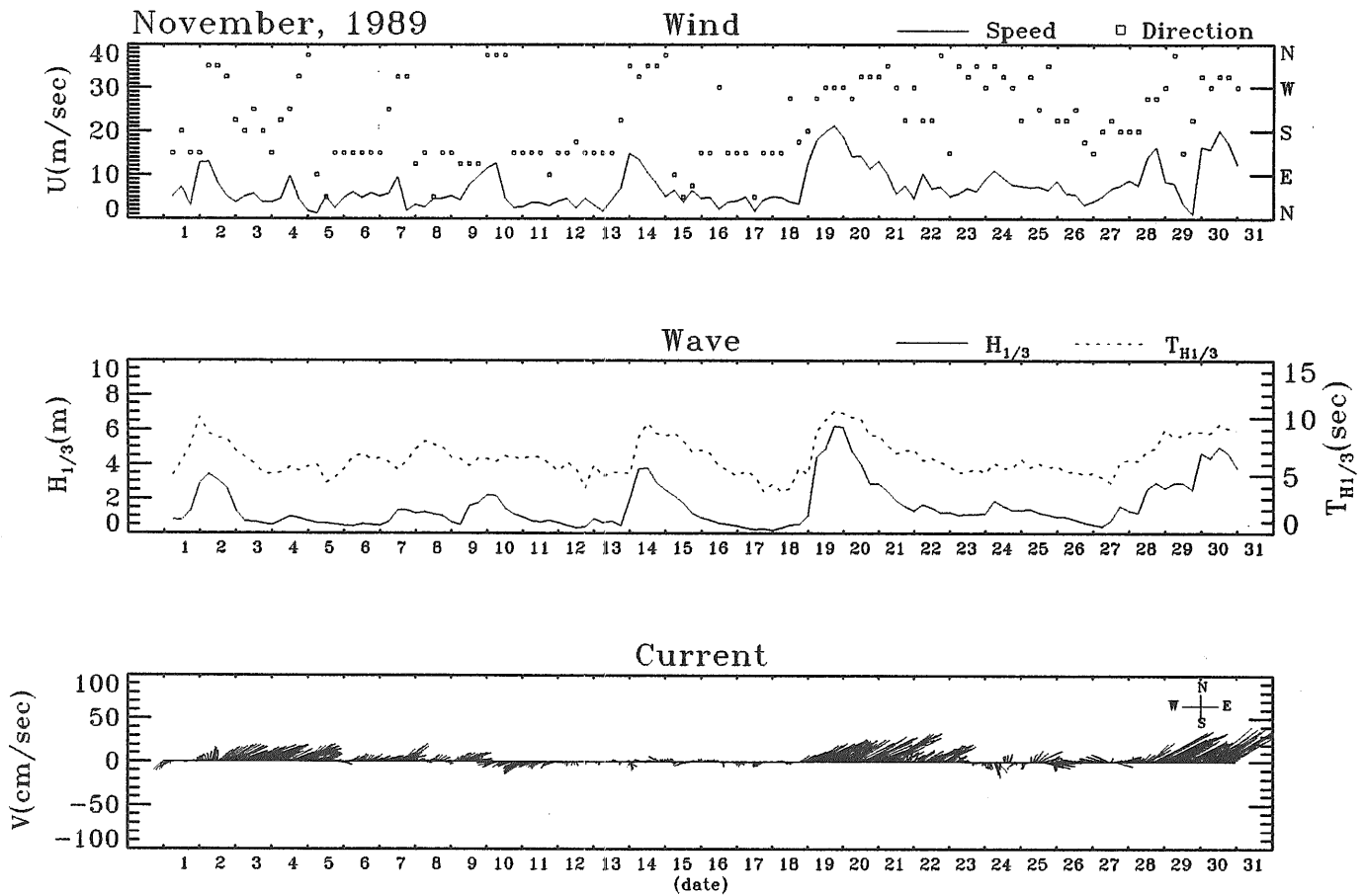




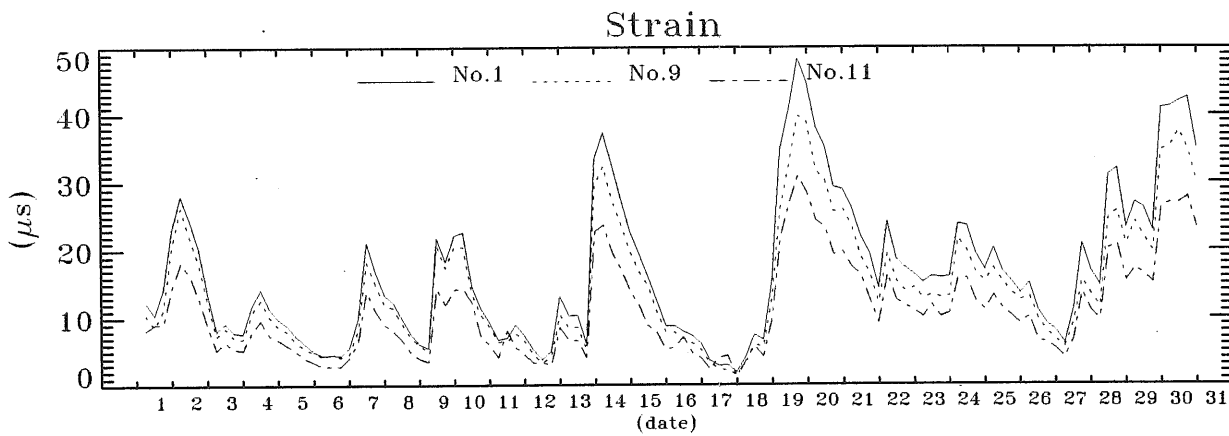
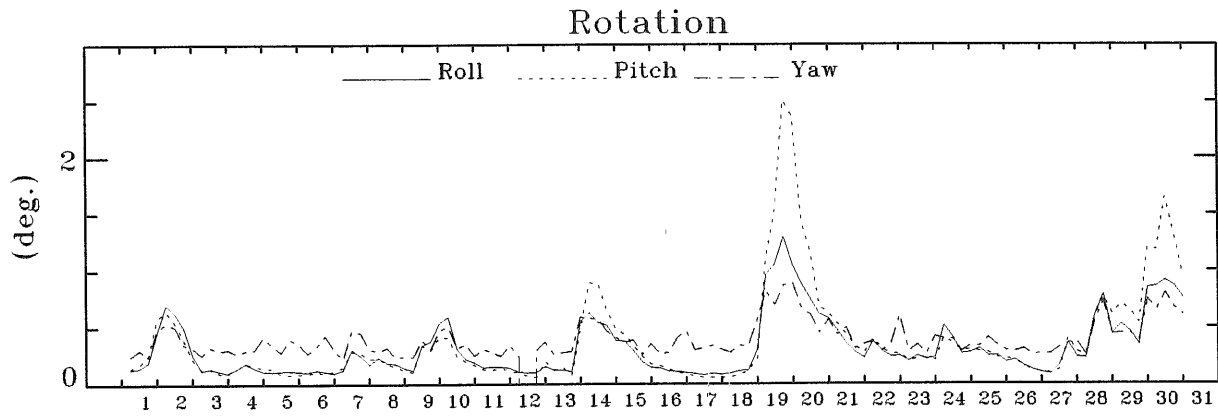
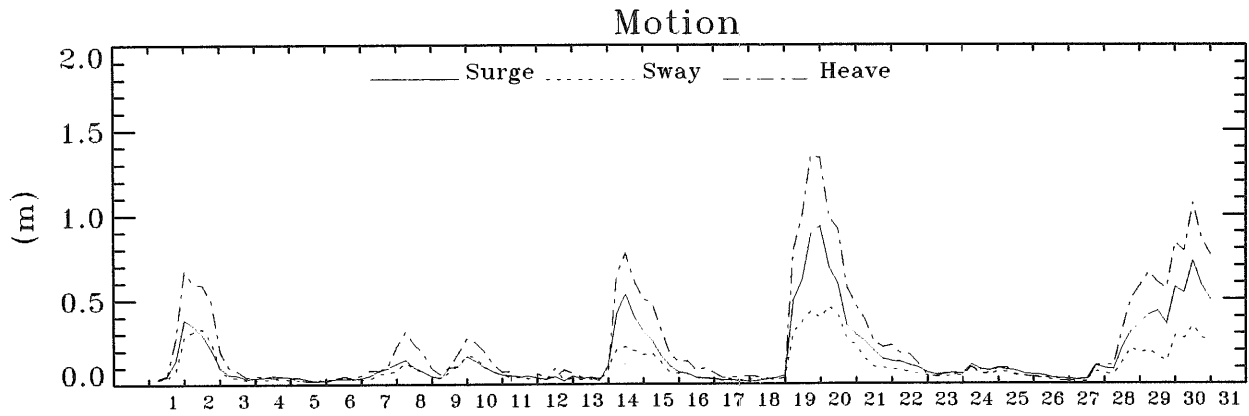
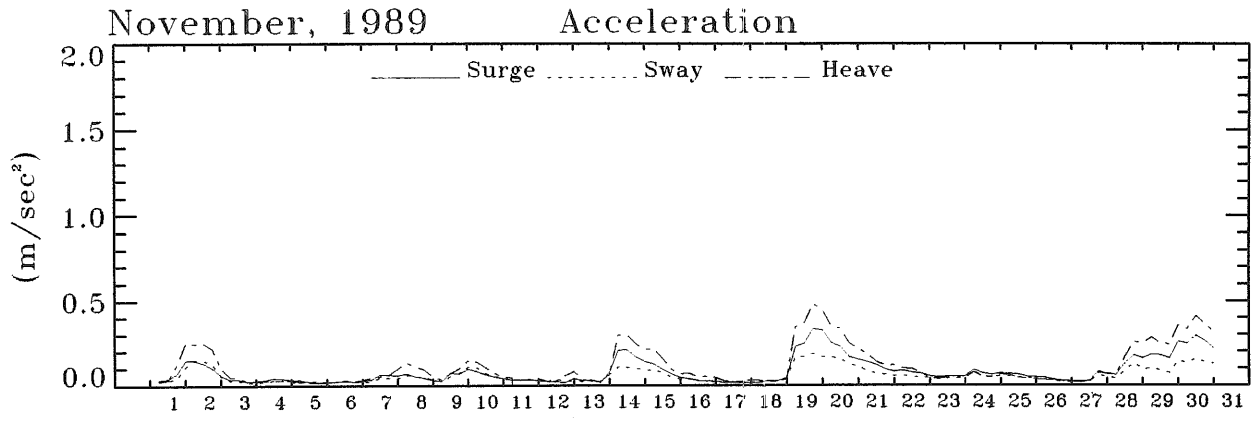
*** 月の統計量 <<< 1989 年 10 月 >>> ***

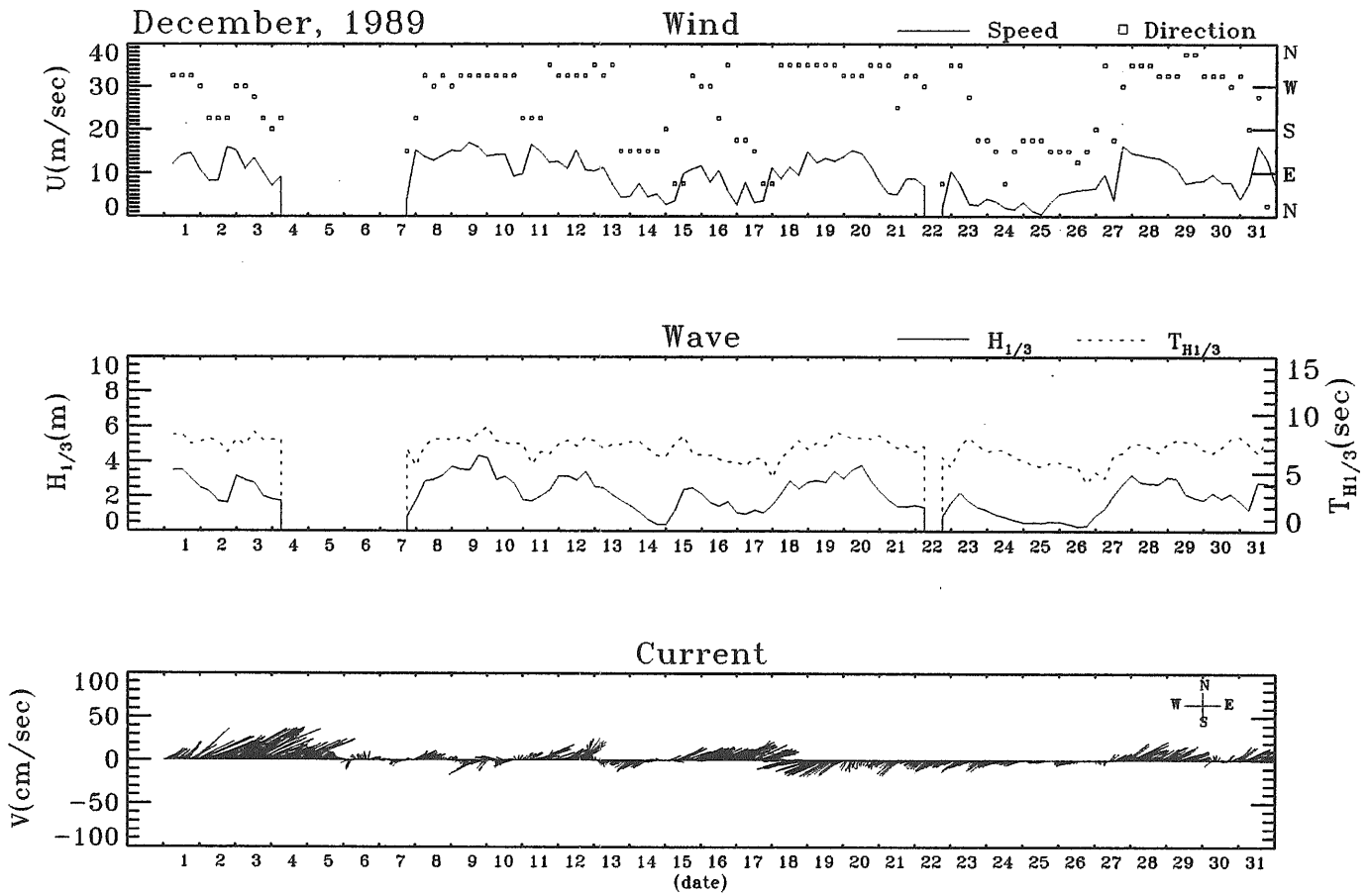
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	6.4060	17.5400	3.1707	99.19
Wave Hight($H_{1/3}$)	1.0794	4.8800	.8683	98.39
Wave Period($T_{H_{1/3}}$)	5.7973	9.6600	1.3543	95.16
Current Speed (mean)	13.7178	54.5000	10.0233	98.39
(every hour)	13.6194	54.5800	9.6846	99.19
Surge Acc.(Std.Dev.)	.0541	.2357	.0460	99.19
Sway Acc.(Std.Dev.)	.0449	.1531	.0311	100.00
Heave Acc.(Std.Dev.)	.0647	.3582	.0666	100.00
Surge Motion(Std.Dev.)	.0895	.5759	.1007	99.19
Sway Motion(Std.Dev.)	.0720	.3891	.0688	100.00
Heave Motion(Std.Dev.)	.1190	.9321	.1549	100.00
Roll Motion(Std.Dev.)	.2321	.8372	.1705	99.19
Pitch Motion(Std.Dev.)	.2325	1.2840	.2070	99.19
Yaw Motion(Std.Dev.)	.3459	.6925	.0971	99.19
Strain No. 1(Std.Dev.)	13.0666	40.3700	9.1110	100.00
Strain No. 9(Std.Dev.)	11.6411	34.7300	7.9098	100.00
Strain No.11(Std.Dev.)	8.8355	26.2500	5.9750	100.00





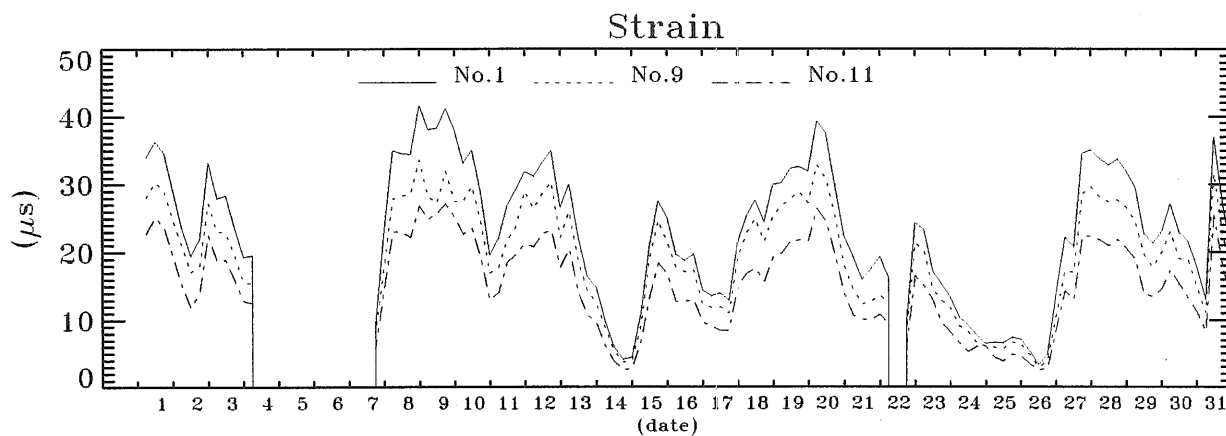
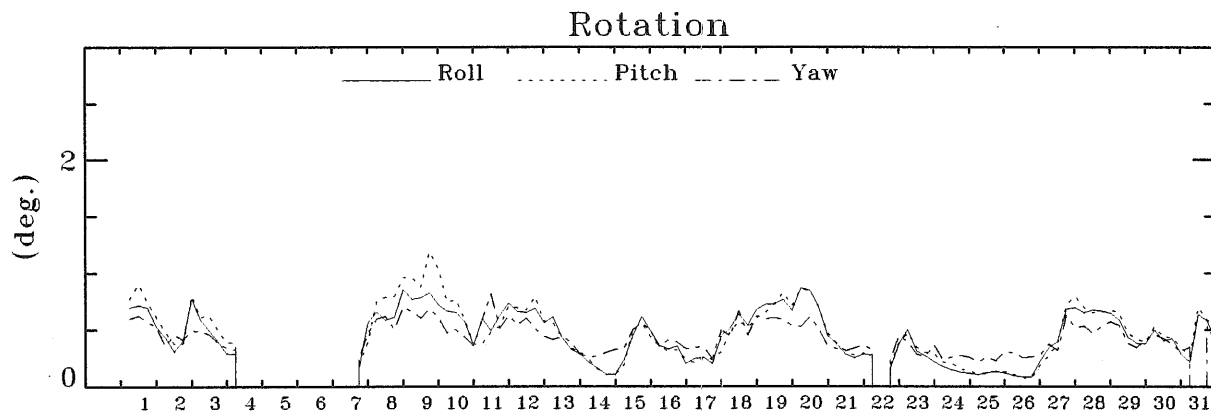
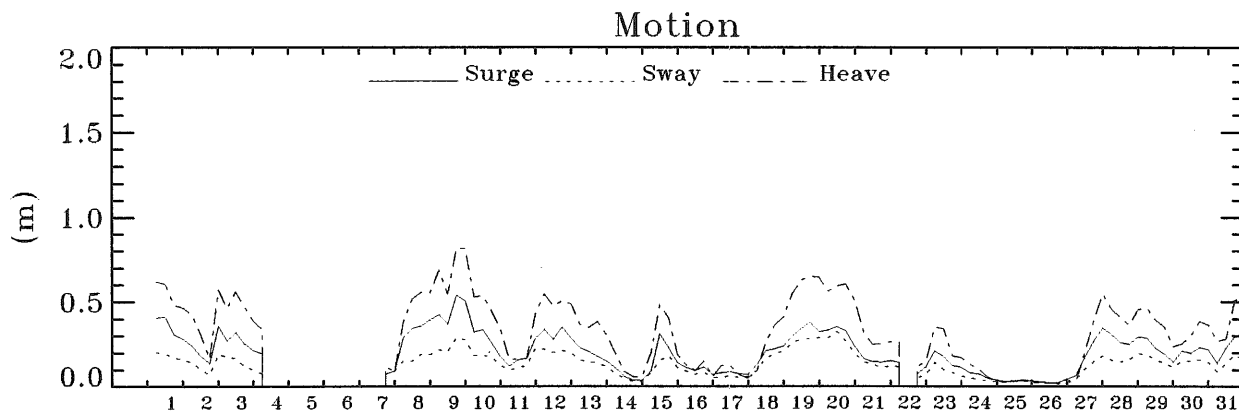
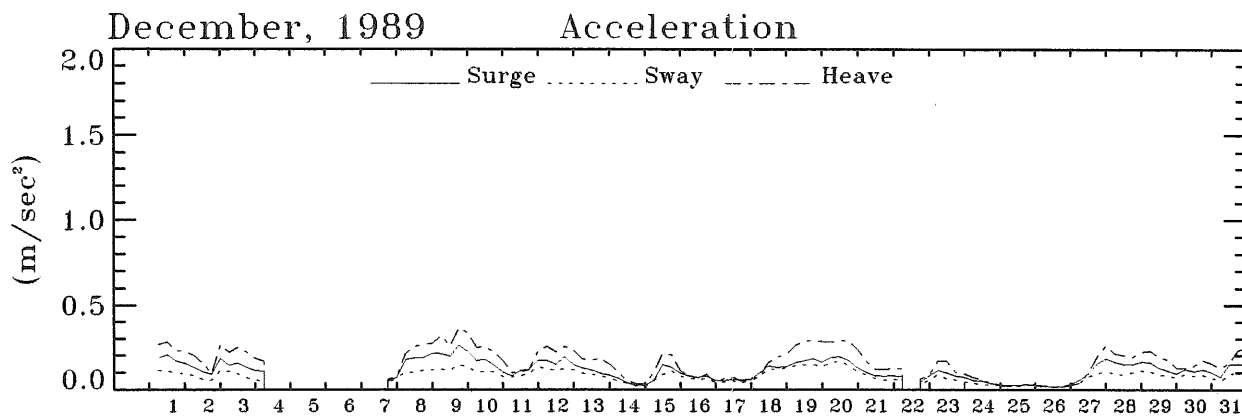
*** 月の統計量 <<< 1989 年 11 月 >>> ***				
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	7.2221	21.2300	4.4507	100.00
Wave Height(H _{1/3})	1.5648	6.1900	1.3288	100.00
Wave Period(T _{H_{1/3}})	6.6358	10.5500	1.5584	100.00
Current Speed (mean)	16.5391	66.6400	15.3337	99.17
(every hour)	16.6783	66.6400	15.1450	100.00
Surge Acc.(Std.Dev.)	.0801	.3314	.0739	100.00
Sway Acc.(Std.Dev.)	.0593	.1865	.0429	100.00
Heave Acc.(Std.Dev.)	.1124	.4816	.1119	98.33
Surge Motion(Std.Dev.)	.1590	.9314	.1936	100.00
Sway Motion(Std.Dev.)	.1047	.4583	.1031	100.00
Heave Motion(Std.Dev.)	.2449	1.3500	.3016	98.33
Roll Motion(Std.Dev.)	.3116	1.2930	.2557	100.00
Pitch Motion(Std.Dev.)	.3743	2.5040	.4247	100.00
Yaw Motion(Std.Dev.)	.3912	.8928	.1458	99.17
Strain No. 1(Std.Dev.)	16.7349	48.2500	10.7863	100.00
Strain No. 9(Std.Dev.)	14.4830	39.8000	9.1273	100.00
Strain No.11(Std.Dev.)	11.0704	30.9100	6.8927	100.00

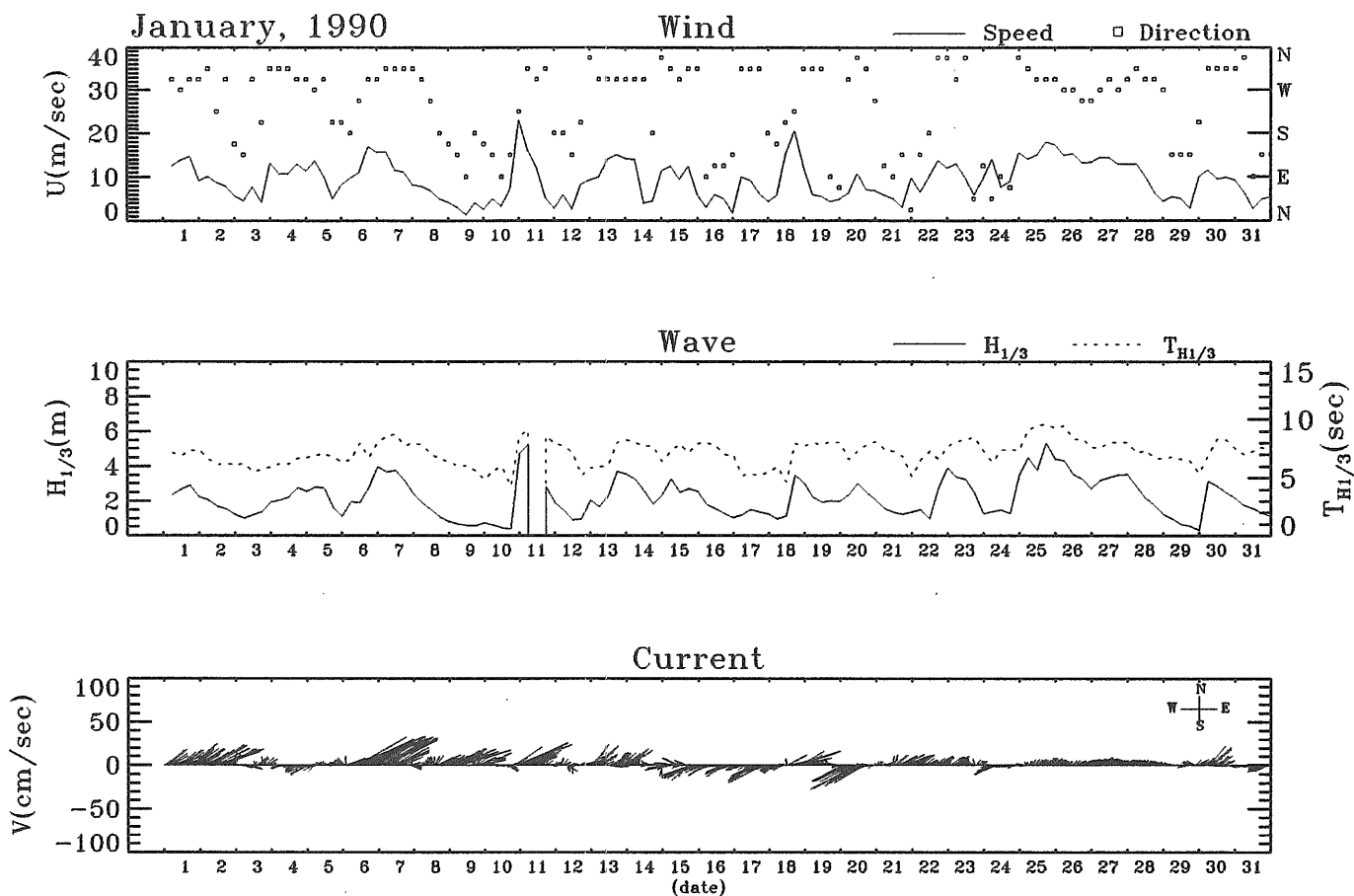




*** 月の統計量 <<< 1989 年 12 月 >>> ***

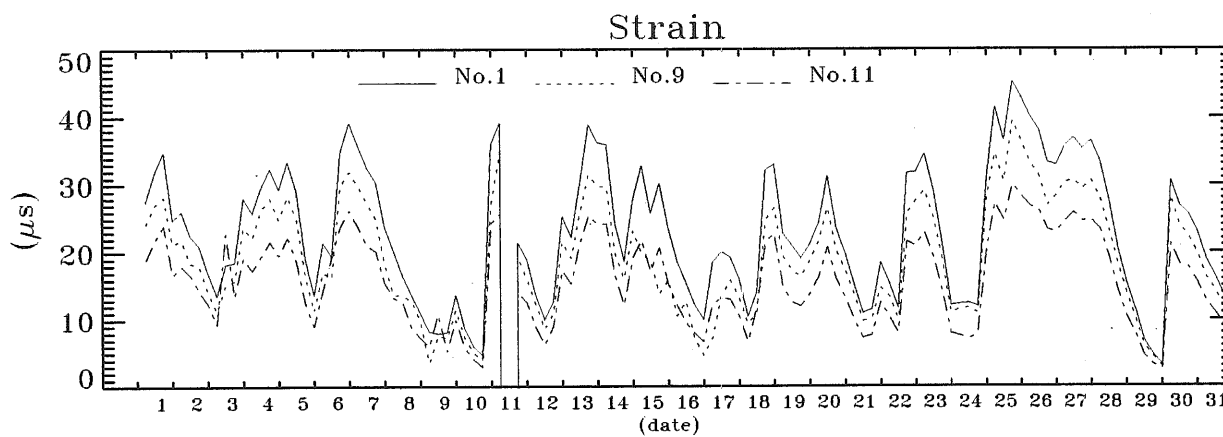
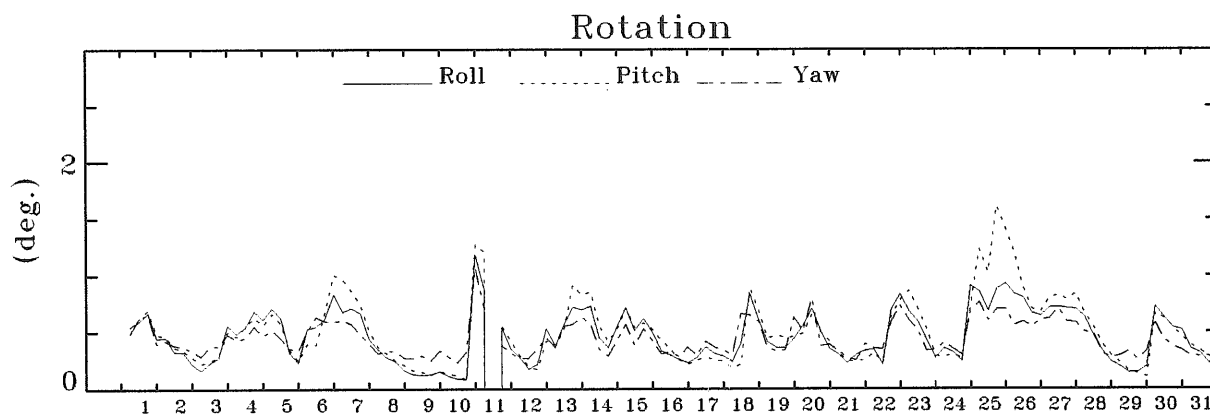
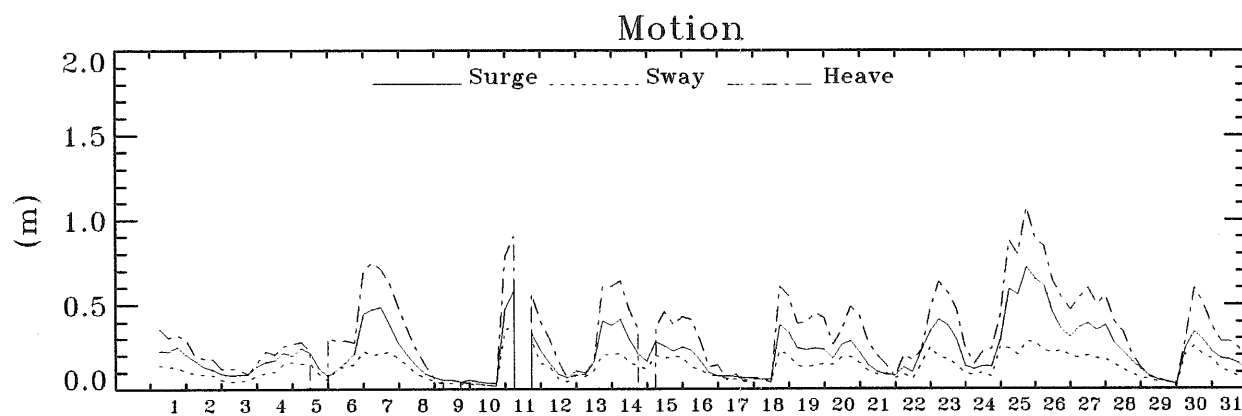
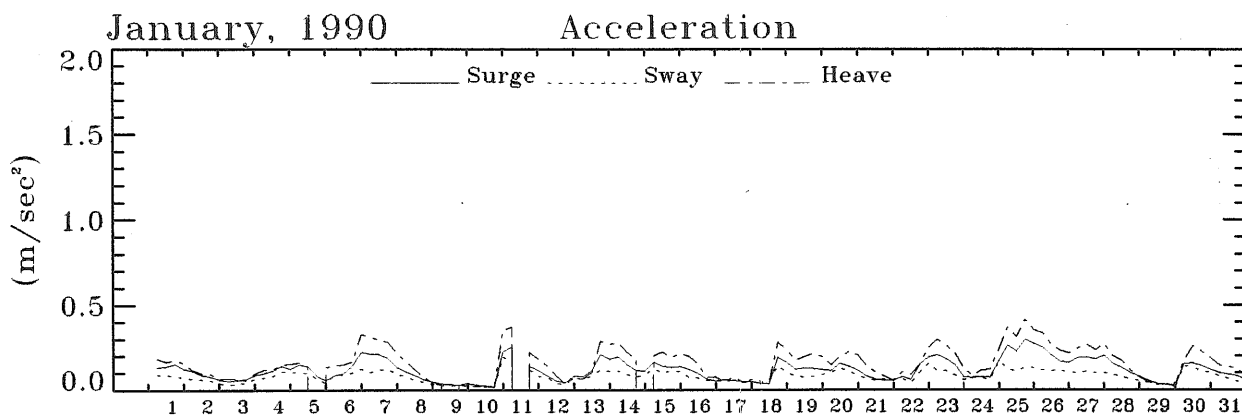
I T E M :	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	9.3839	16.9400	4.3355	88.71
Wave Hight($H_{1/3}$)	2.0762	4.3100	.9708	88.71
Wave Period($T_{H_{1/3}}$)	7.1372	8.9500	.9217	88.71
Current Speed (mean)	17.4882	63.3300	13.1110	99.19
(every hour)	17.5701	76.6100	13.4049	99.73
Surge Acc.(Std.Dev.)	.1127	.2584	.0554	88.71
Sway Acc.(Std.Dev.)	.0807	.1704	.0360	88.71
Heave Acc.(Std.Dev.)	.1603	.3630	.0870	88.71
Surge Motion(Std.Dev.)	.2048	.5381	.1166	88.71
Sway Motion(Std.Dev.)	.1358	.3259	.0721	88.71
Heave Motion(Std.Dev.)	.3262	.8152	.2001	88.71
Roll Motion(Std.Dev.)	.4487	.8649	.2177	88.71
Pitch Motion(Std.Dev.)	.4776	1.1930	.2463	88.71
Yaw Motion(Std.Dev.)	.4331	.8160	.1321	87.90
Strain No. 1(Std.Dev.)	23.0215	41.6200	9.9108	88.71
Strain No. 9(Std.Dev.)	19.3103	33.6300	8.1073	88.71
Strain No.11(Std.Dev.)	15.0970	27.1100	6.6720	88.71

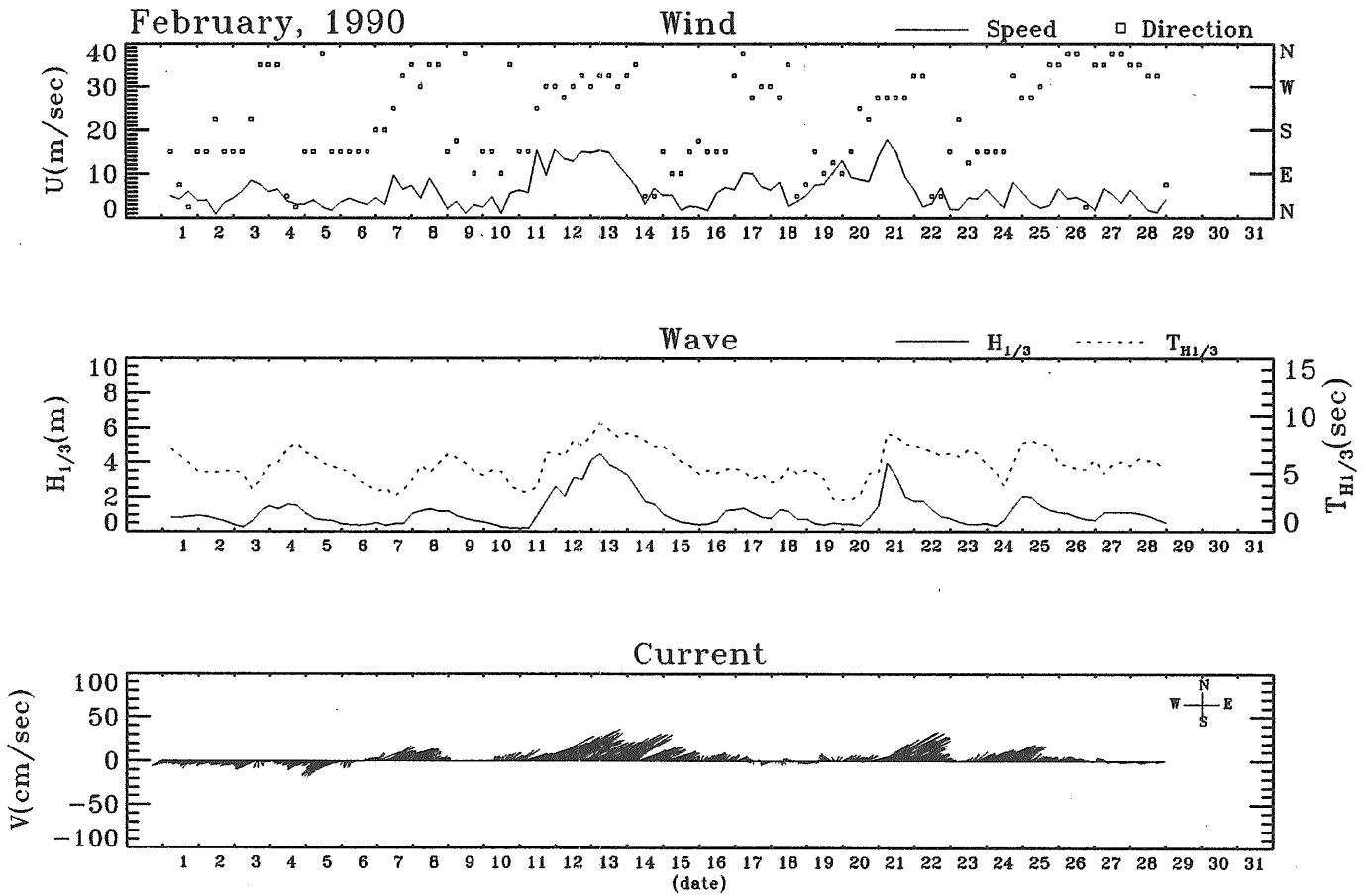




*** 月の統計量 <<< 1990 年 1 月 >>> ***

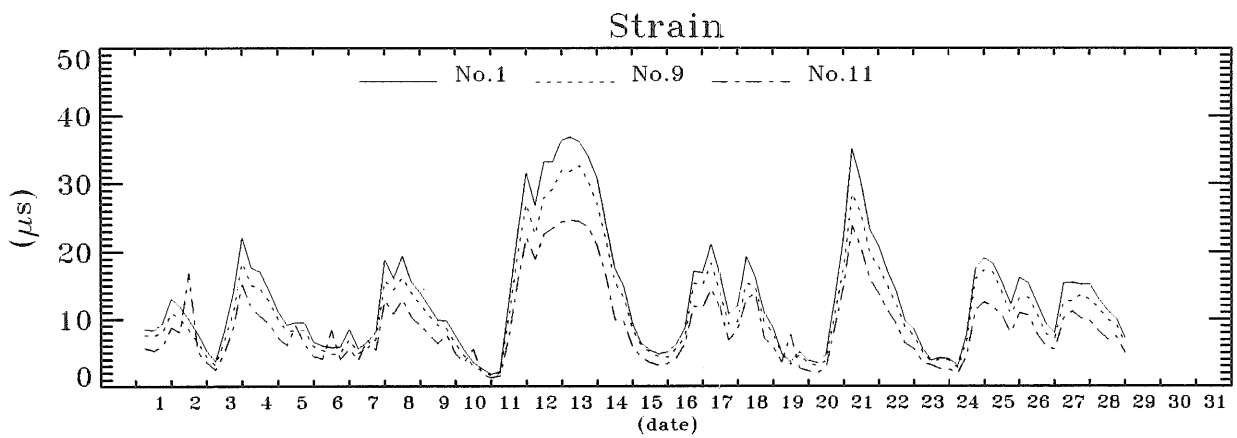
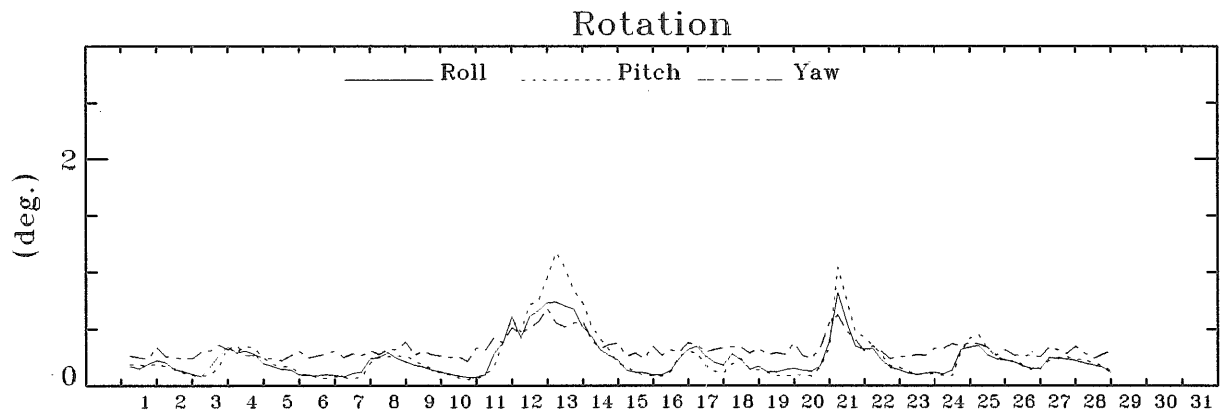
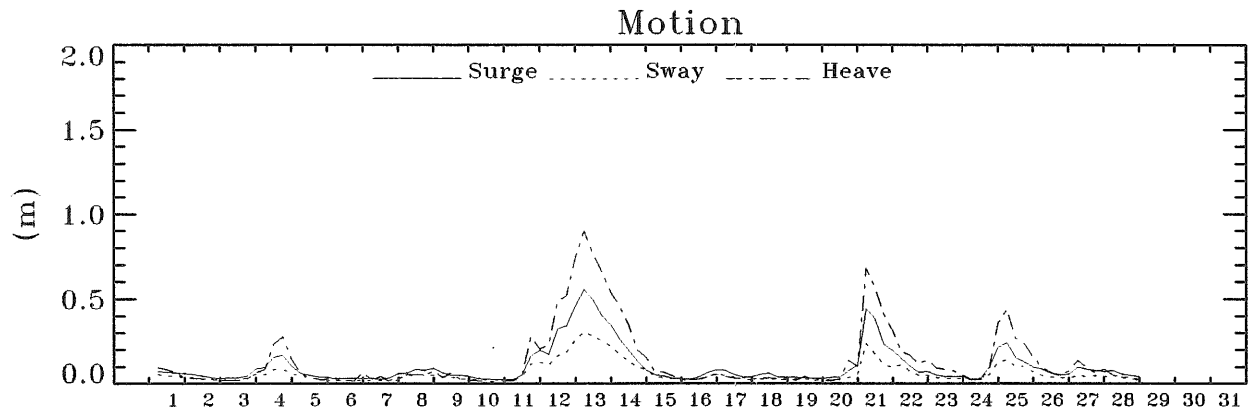
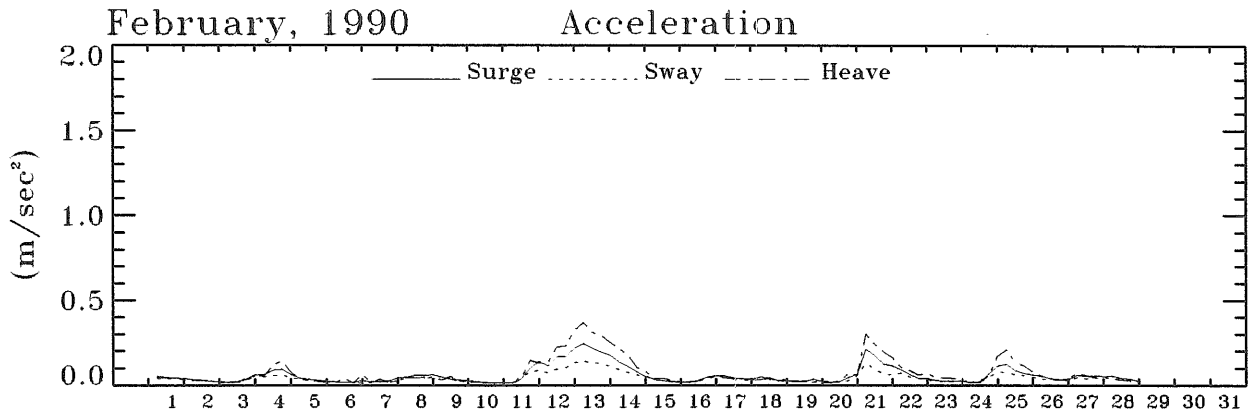
I T E M :	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	9.2443	22.9900	4.3751	100.00
Wave Hight($H_{1/3}$)	2.1691	5.3200	1.0882	99.19
Wave Period($T_{H_{1/3}}$)	7.1510	9.6100	1.0784	99.19
Current Speed (mean)	14.6251	67.0900	12.4847	97.58
(every hour)	14.9659	69.3700	12.0698	98.79
Surge Acc.(Std.Dev.)	.1152	.2943	.0618	99.19
Sway Acc.(Std.Dev.)	.0811	.1946	.0347	99.19
Heave Acc.(Std.Dev.)	.1606	.4122	.0927	96.77
Surge Motion(Std.Dev.)	.2158	.7169	.1465	99.19
Sway Motion(Std.Dev.)	.1316	.3730	.0722	99.19
Heave Motion(Std.Dev.)	.3315	1.0710	.2308	96.77
Roll Motion(Std.Dev.)	.4608	1.1850	.2280	99.19
Pitch Motion(Std.Dev.)	.5013	1.6110	.2949	99.19
Yaw Motion(Std.Dev.)	.4418	1.0730	.1519	99.19
Strain No. 1(Std.Dev.)	22.9990	45.1900	9.8844	99.19
Strain No. 9(Std.Dev.)	19.0870	39.3700	8.3971	99.19
Strain No.11(Std.Dev.)	15.7097	30.0300	6.6678	99.19

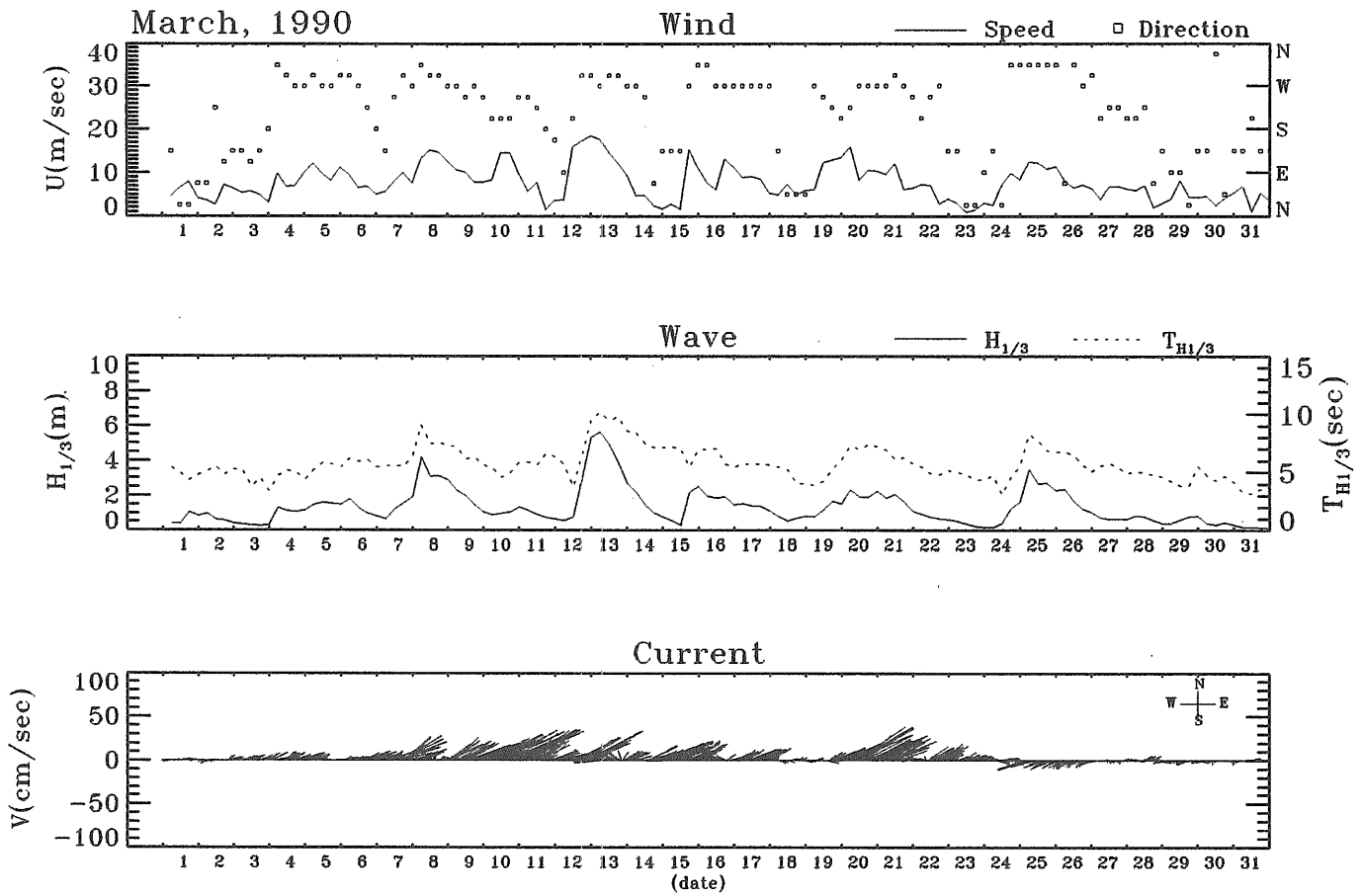




*** 月の統計量 <<< 1990 年 2 月 >>> ***

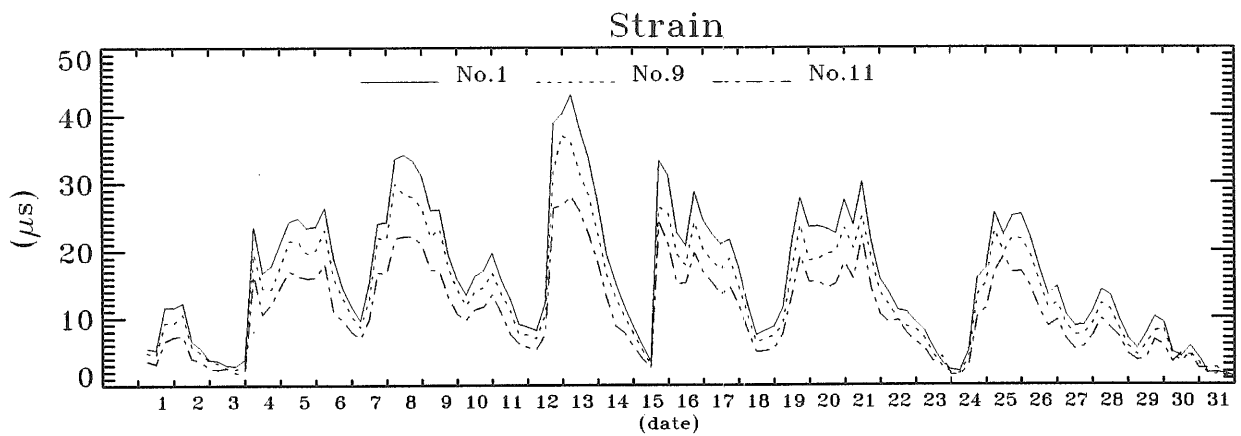
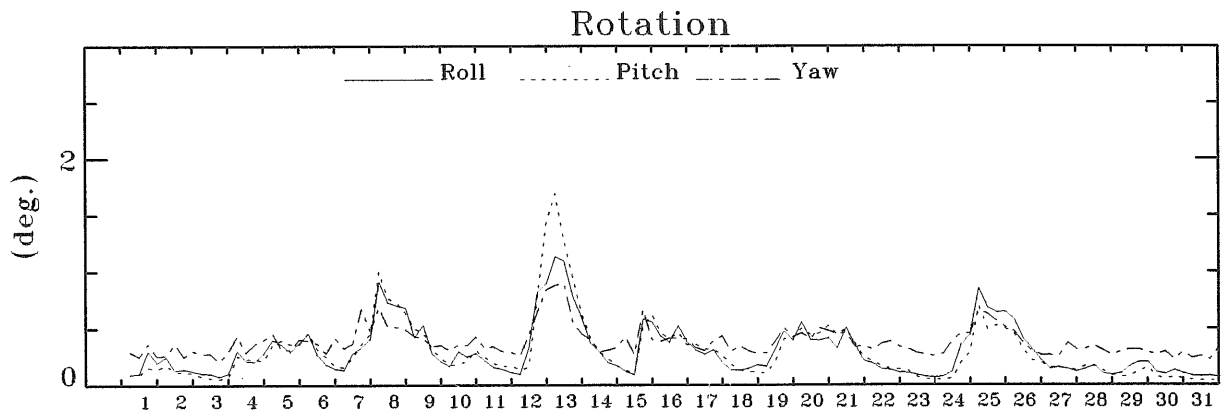
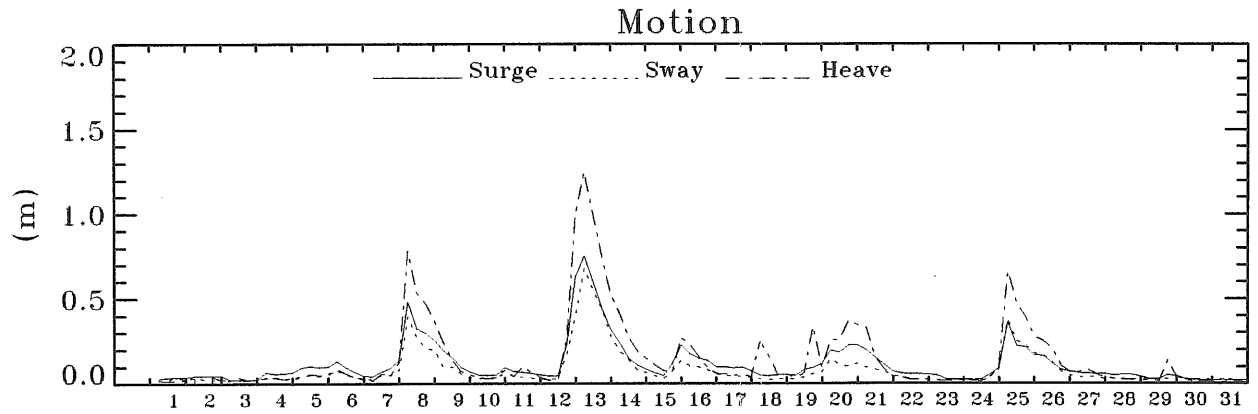
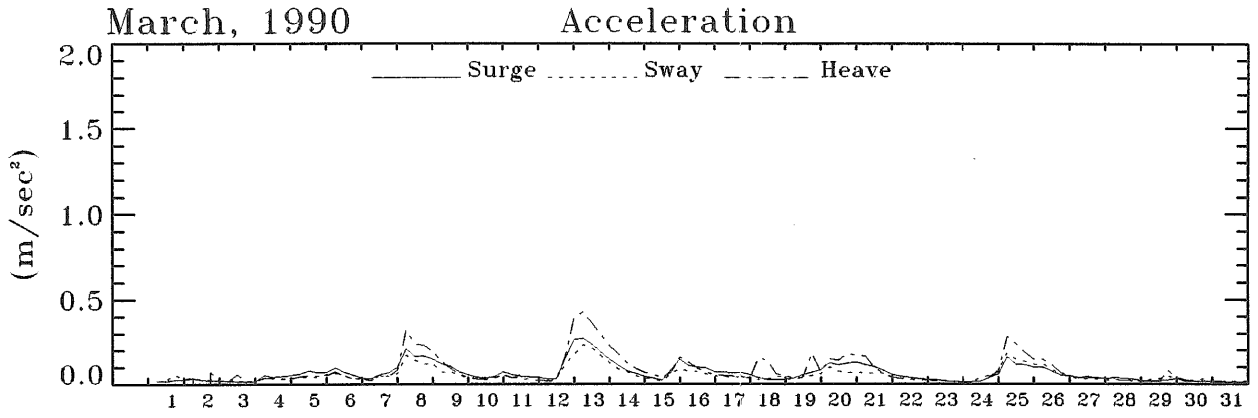
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	6.1165	17.8400	3.7999	100.00
Wave Hight($H_{1/3}$)	1.1327	4.4600	.8892	100.00
Wave Period($T_{H_{1/3}}$)	5.7887	9.3700	1.4389	100.00
Current Speed (mean)	15.3159	66.6300	14.9154	99.11
(every hour)	15.1918	66.6300	14.3830	99.55
Surge Acc.(Std.Dev.)	.0570	.2412	.0501	100.00
Sway Acc.(Std.Dev.)	.0445	.1426	.0285	100.00
Heave Acc.(Std.Dev.)	.0716	.3673	.0772	100.00
Surge Motion(Std.Dev.)	.0987	.5564	.1085	100.00
Sway Motion(Std.Dev.)	.0622	.3086	.0600	100.00
Heave Motion(Std.Dev.)	.1327	.8987	.1838	100.00
Roll Motion(Std.Dev.)	.2322	.8134	.1596	100.00
Pitch Motion(Std.Dev.)	.2517	1.1730	.2221	100.00
Yaw Motion(Std.Dev.)	.3269	.6762	.0906	100.00
Strain No. 1(Std.Dev.)	13.2039	36.8000	8.5042	100.00
Strain No. 9(Std.Dev.)	11.4887	32.7000	7.3204	100.00
Strain No.11(Std.Dev.)	9.1317	24.6400	5.8078	100.00

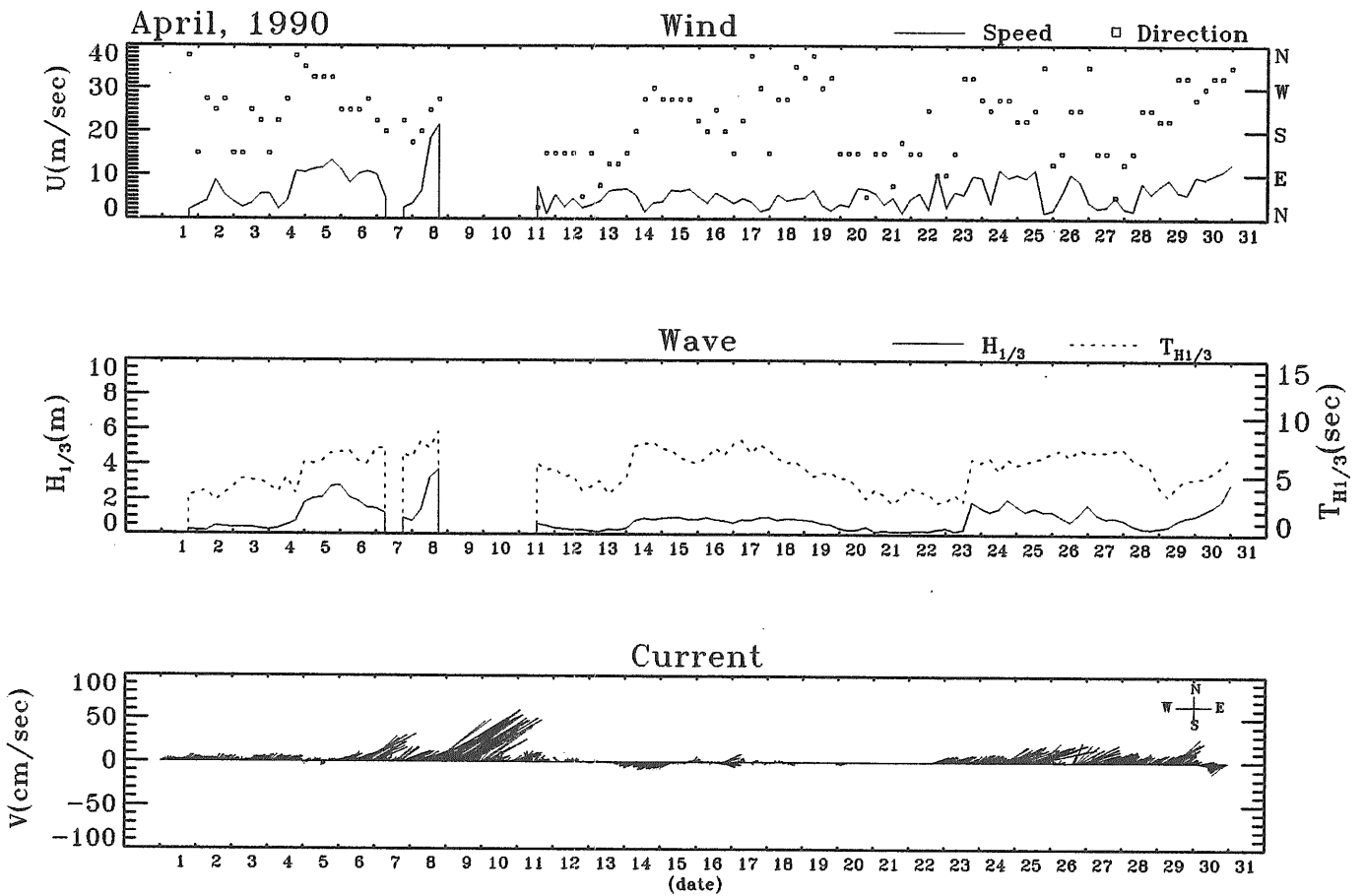




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 *** 月の統計量 <<< 1990 年 3 月 >>> ***
 I T E M : Mean Maximum Std.Dev. 測得率(%)

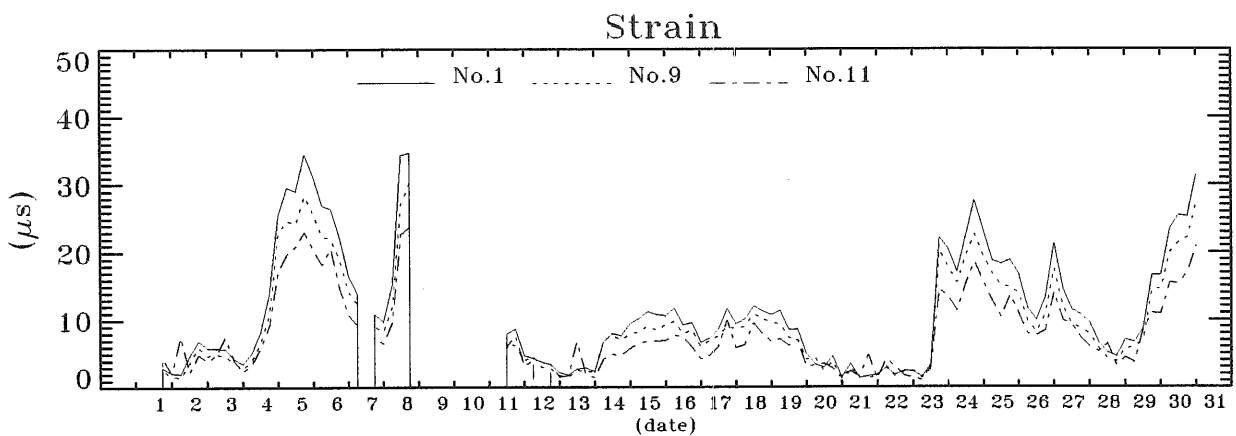
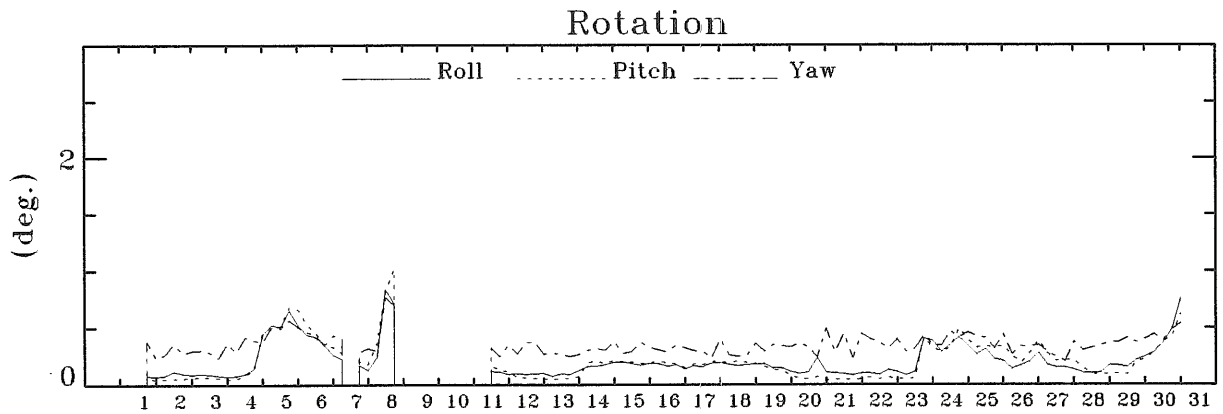
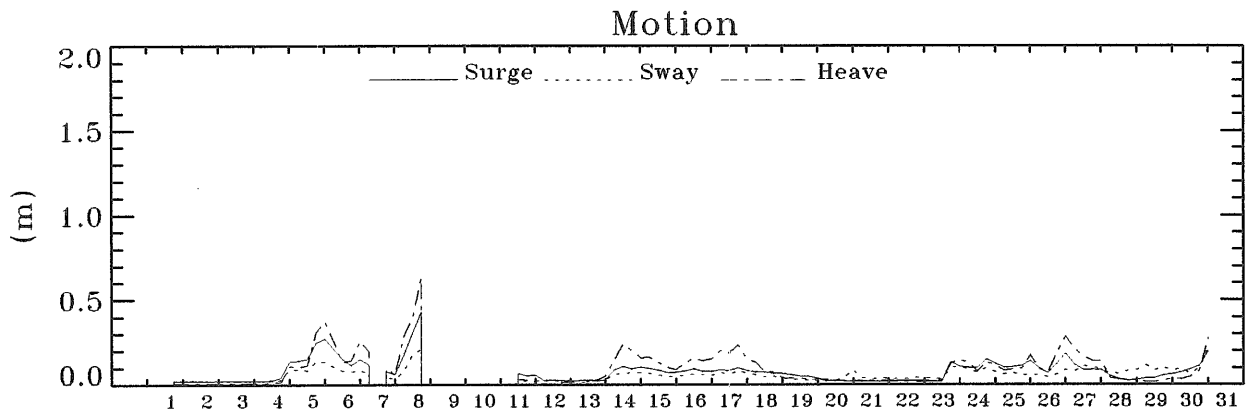
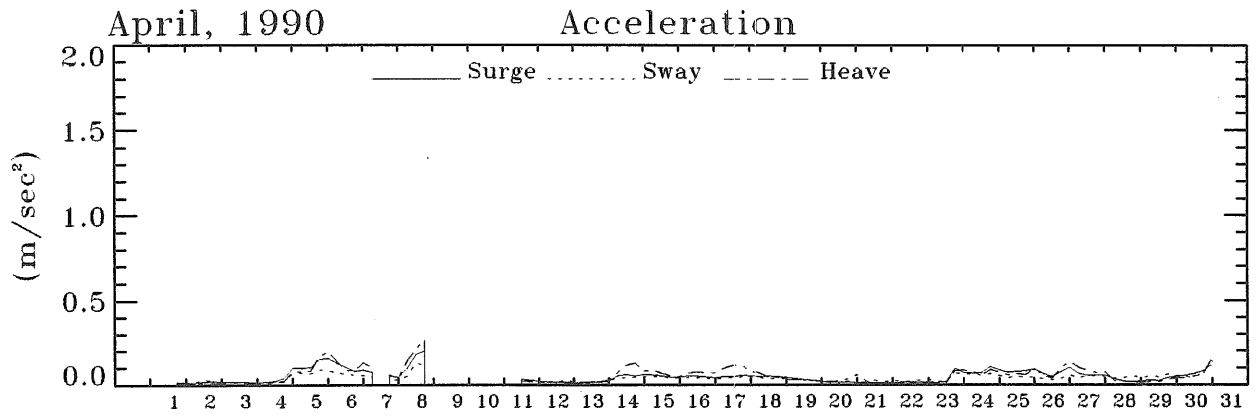
 Wind Speed (mean) 7.6493 18.4100 3.9874 100.00
 Wave Hight($H_{1/3}$) 1.3131 5.6100 1.0425 100.00
 Wave Period($T_{H_{1/3}}$) 5.7051 10.1600 1.3921 100.00
 Current Speed (mean) 16.8866 72.3100 15.7738 98.39
 (every hour) 16.5380 72.3100 15.8605 99.33
 Surge Acc.(Std.Dev.) .0622 .2694 .0529 100.00
 Sway Acc.(Std.Dev.) .0531 .2333 .0433 100.00
 Heave Acc.(Std.Dev.) .0778 .4257 .0838 99.19
 Surge Motion(Std.Dev.) .1090 .7523 .1219 100.00
 Sway Motion(Std.Dev.) .0804 .6780 .1067 100.00
 Heave Motion(Std.Dev.) .1429 1.2480 .2146 99.19
 Roll Motion(Std.Dev.) .2983 1.1280 .2262 100.00
 Pitch Motion(Std.Dev.) .2980 1.6930 .2710 100.00
 Yaw Motion(Std.Dev.) .3815 .8996 .1271 100.00
 Strain No. 1(Std.Dev.) 16.0699 43.0800 9.7523 100.00
 Strain No. 9(Std.Dev.) 13.7317 37.1500 8.2966 100.00
 Strain No.11(Std.Dev.) 10.8481 28.0800 6.5796 100.00
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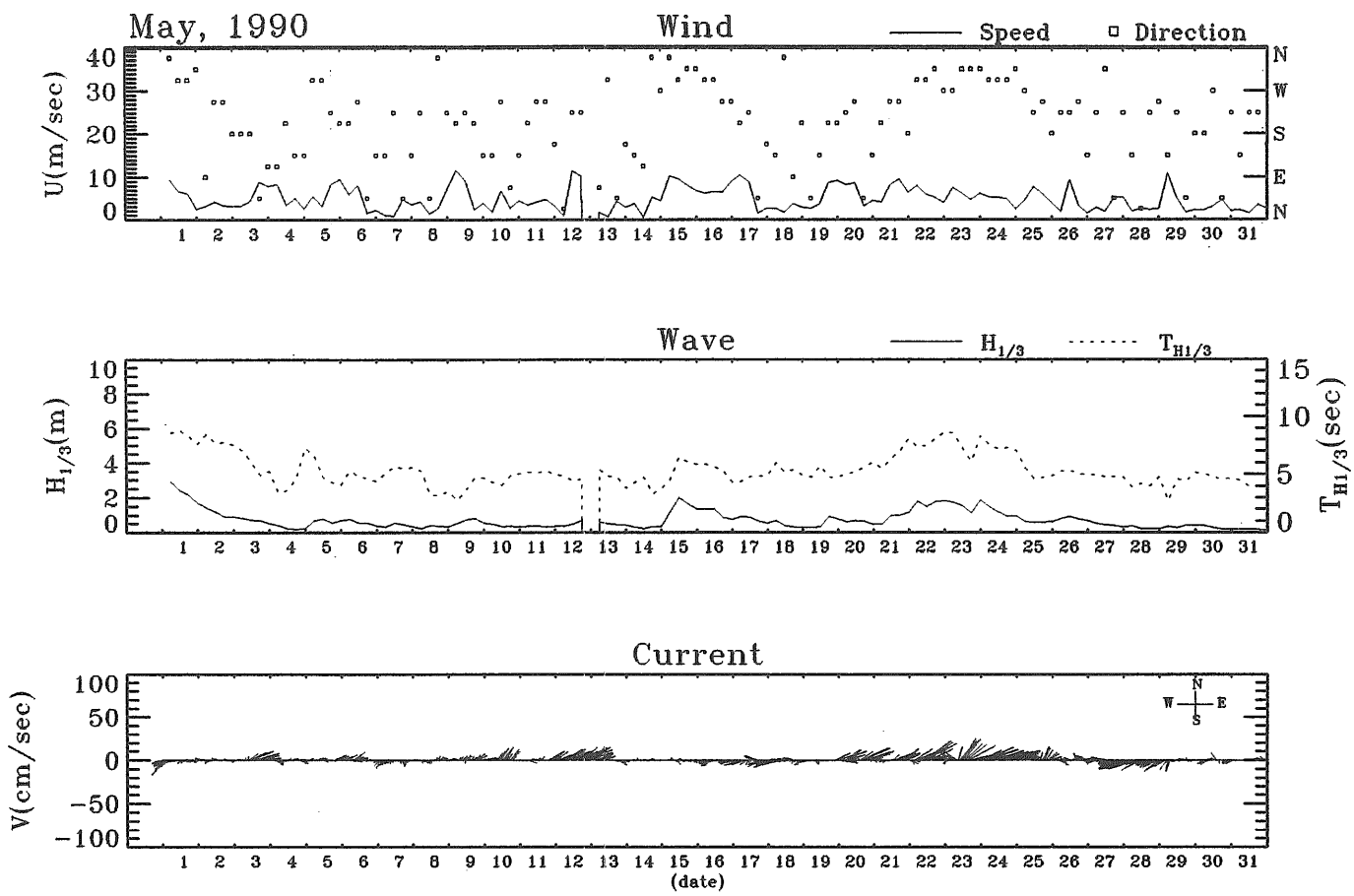




*** 月の統計量 <<< 1990 年 4 月 >>> ***

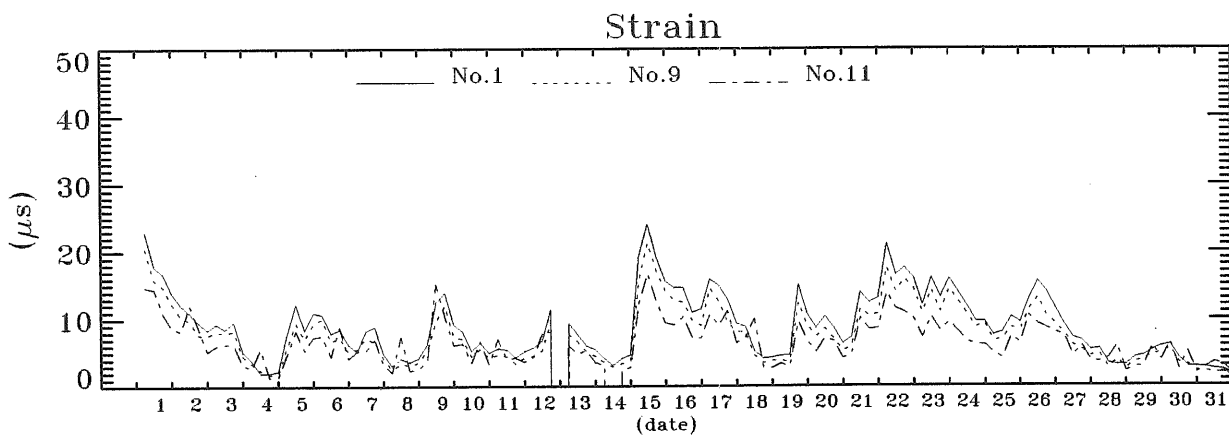
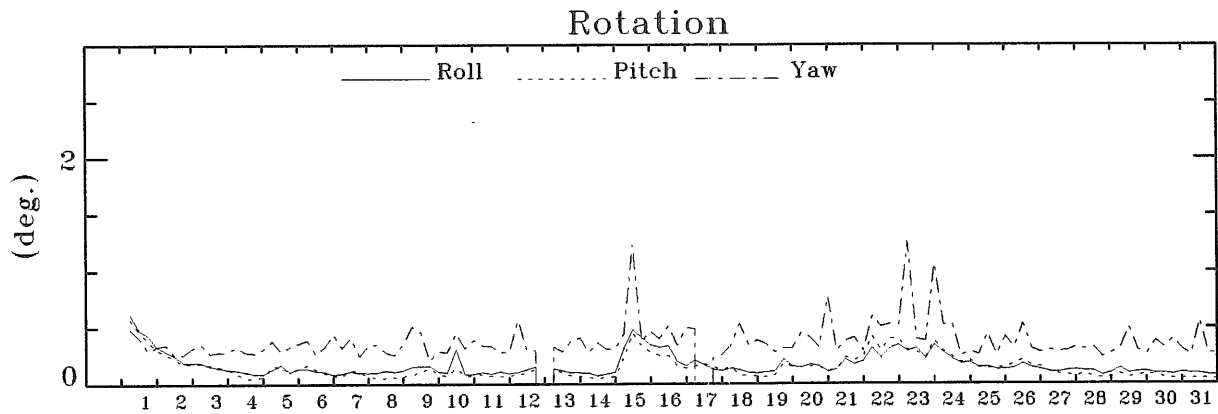
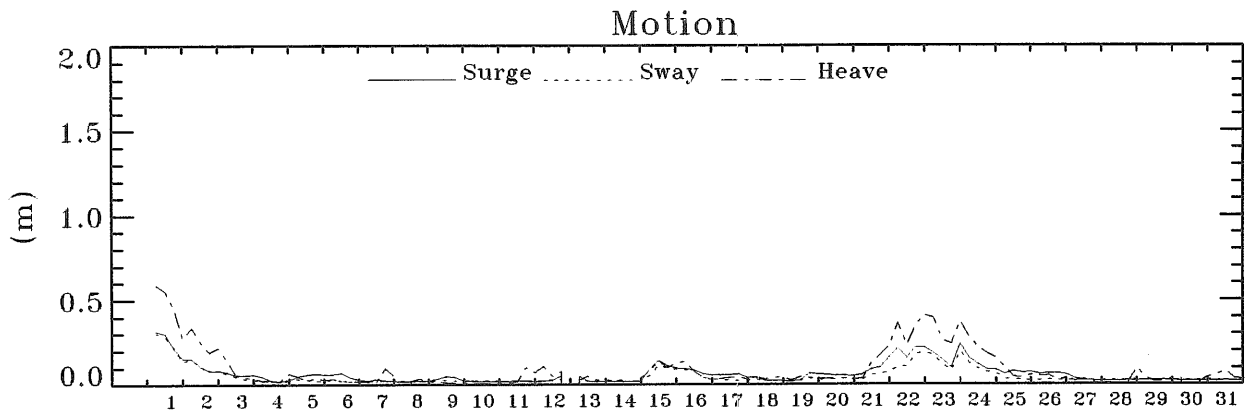
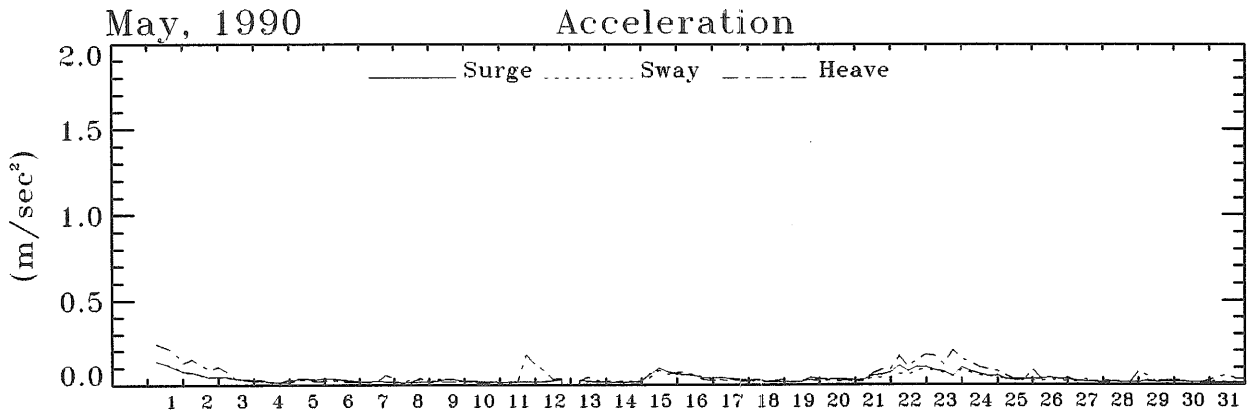
I T E M	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)	6.0649	21.6800	3.5998	89.17
Wave Hight($H_{1/3}$)	.9056	3.7000	.7224	89.17
Wave Period($T_{H_{1/3}}$)	5.6112	8.7700	1.5115	89.17
Current Speed (mean)	14.3990	90.4700	16.7957	90.83
(every hour)	14.3149	90.4700	17.2446	91.81
Surge Acc.(Std.Dev.)	.0478	.2005	.0386	89.17
Sway Acc.(Std.Dev.)	.0406	.1390	.0231	89.17
Heave Acc.(Std.Dev.)	.0555	.2705	.0501	88.33
Surge Motion(Std.Dev.)	.0778	.4292	.0665	89.17
Sway Motion(Std.Dev.)	.0611	.2184	.0378	89.17
Heave Motion(Std.Dev.)	.0975	.6325	.1020	88.33
Roll Motion(Std.Dev.)	.2023	.8348	.1525	89.17
Pitch Motion(Std.Dev.)	.2081	1.0180	.1788	89.17
Yaw Motion(Std.Dev.)	.3517	.7666	.0922	89.17
Strain No. 1(Std.Dev.)	11.4005	34.6400	8.7465	89.17
Strain No. 9(Std.Dev.)	9.7193	30.2700	7.3503	89.17
Strain No.11(Std.Dev.)	8.1393	23.8000	5.6598	88.33

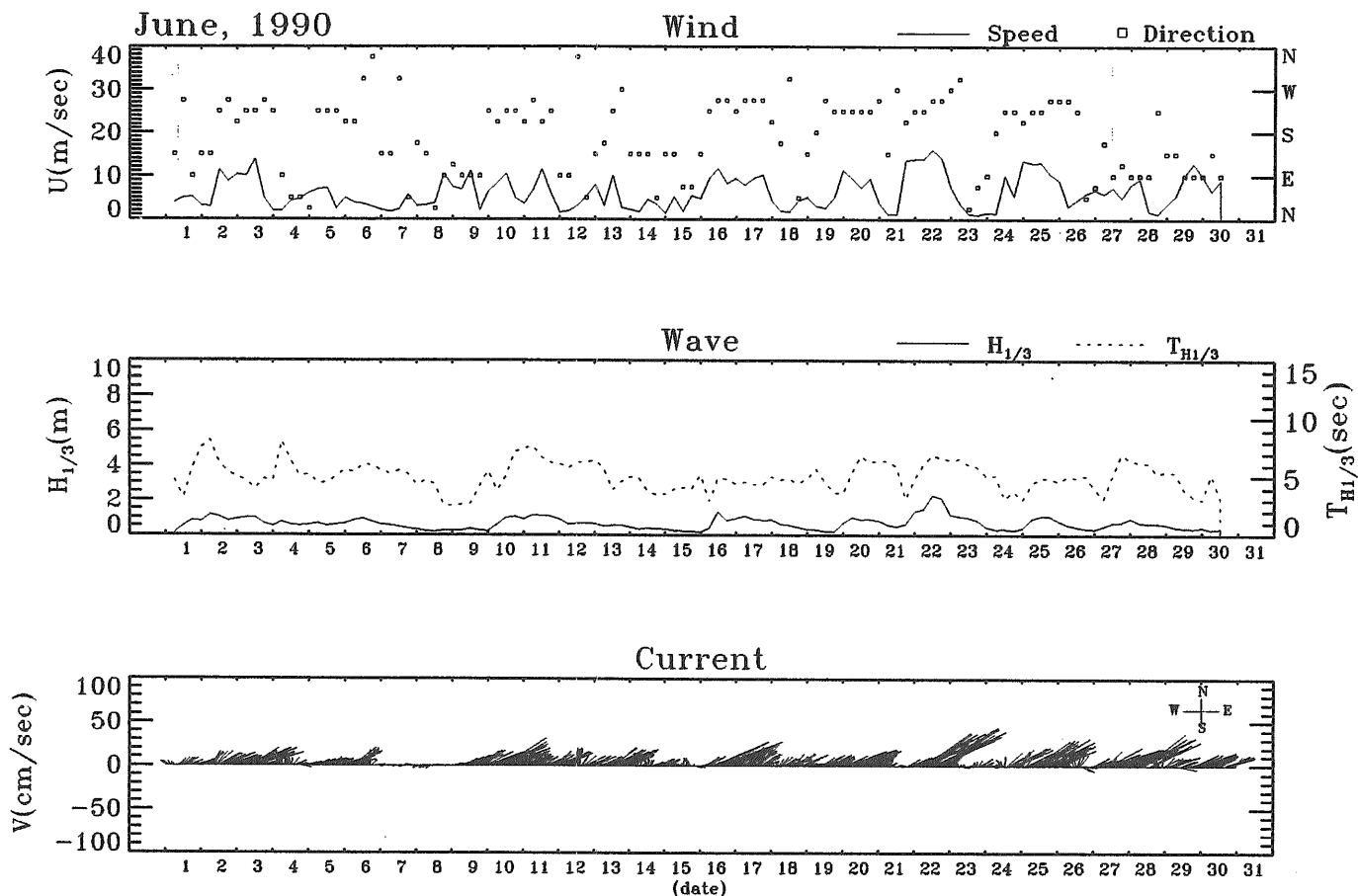




*** 月の統計量 <<< 1990 年 5 月 >>> ***

I T E M	:	Mean	Maximum	Std.Dev.	測得率(%)
Wind Speed (mean)		4.8299	11.5600	2.7813	99.19
Wave Hight(H _{1/3})		.6977	2.9000	.5213	99.19
Wave Period(T _{H1/3})		5.3631	8.8300	1.3749	99.19
Current Speed (mean)		8.8707	31.7500	8.5397	98.39
(every hour)		8.8090	35.1800	8.2068	99.46
Surge Acc.(Std.Dev.)		.0343	.1371	.0269	99.19
Sway Acc.(Std.Dev.)		.0335	.1399	.0239	99.19
Heave Acc.(Std.Dev.)		.0526	.2429	.0516	95.97
Surge Motion(Std.Dev.)		.0617	.3142	.0593	99.19
Sway Motion(Std.Dev.)		.0490	.3059	.0523	99.19
Heave Motion(Std.Dev.)		.0914	.5909	.1172	95.97
Roll Motion(Std.Dev.)		.1604	.6168	.0981	99.19
Pitch Motion(Std.Dev.)		.1462	.5726	.1033	99.19
Yaw Motion(Std.Dev.)		.3760	1.2510	.1593	98.39
Strain No. 1(Std.Dev.)		8.8854	24.0300	4.8846	99.19
Strain No. 9(Std.Dev.)		7.6461	21.2800	4.2595	99.19
Strain No.11(Std.Dev.)		6.5186	16.7300	3.2367	98.39





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***** 月の統計量 <<< 1990 年 6 月 >>> *****
 I T E M : Mean Maximum Std.Dev. 測得率(%)

 Wind Speed (mean) 6.2052 15.9800 3.7292 98.33
 Wave Hight($H_{1/3}$) .6412 2.2700 .3590 98.33
 Wave Period($T_{H_{1/3}}$) 5.0613 8.1800 1.2330 98.33
 Current Speed (mean) 20.4817 66.2300 14.4752 98.33
 (every hour) 20.5888 75.2300 14.4001 99.44
 Surge Acc.(Std.Dev.) .0317 .1167 .0188 98.33
 Sway Acc.(Std.Dev.) .0307 .0952 .0121 98.33
 Heave Acc.(Std.Dev.) .0375 .1491 .0285 84.17
 Surge Motion(Std.Dev.) .0528 .1844 .0319 98.33
 Sway Motion(Std.Dev.) .0388 .1397 .0181 98.33
 Heave Motion(Std.Dev.) .0568 .3111 .0563 84.17
 Roll Motion(Std.Dev.) .1584 .5677 .0738 98.33
 Pitch Motion(Std.Dev.) .1411 .5392 .0813 98.33
 Yaw Motion(Std.Dev.) .3309 .8853 .0950 98.33
 Strain No. 1(Std.Dev.) 8.6291 26.4800 5.0567 98.33
 Strain No. 9(Std.Dev.) 7.2296 22.3700 4.0866 98.33
 Strain No.11(Std.Dev.) 6.2831 18.3300 3.2793 98.33
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