Arctic Ocean Buoy Program

Data Report

1 January 1982 - 31 December 1982

by

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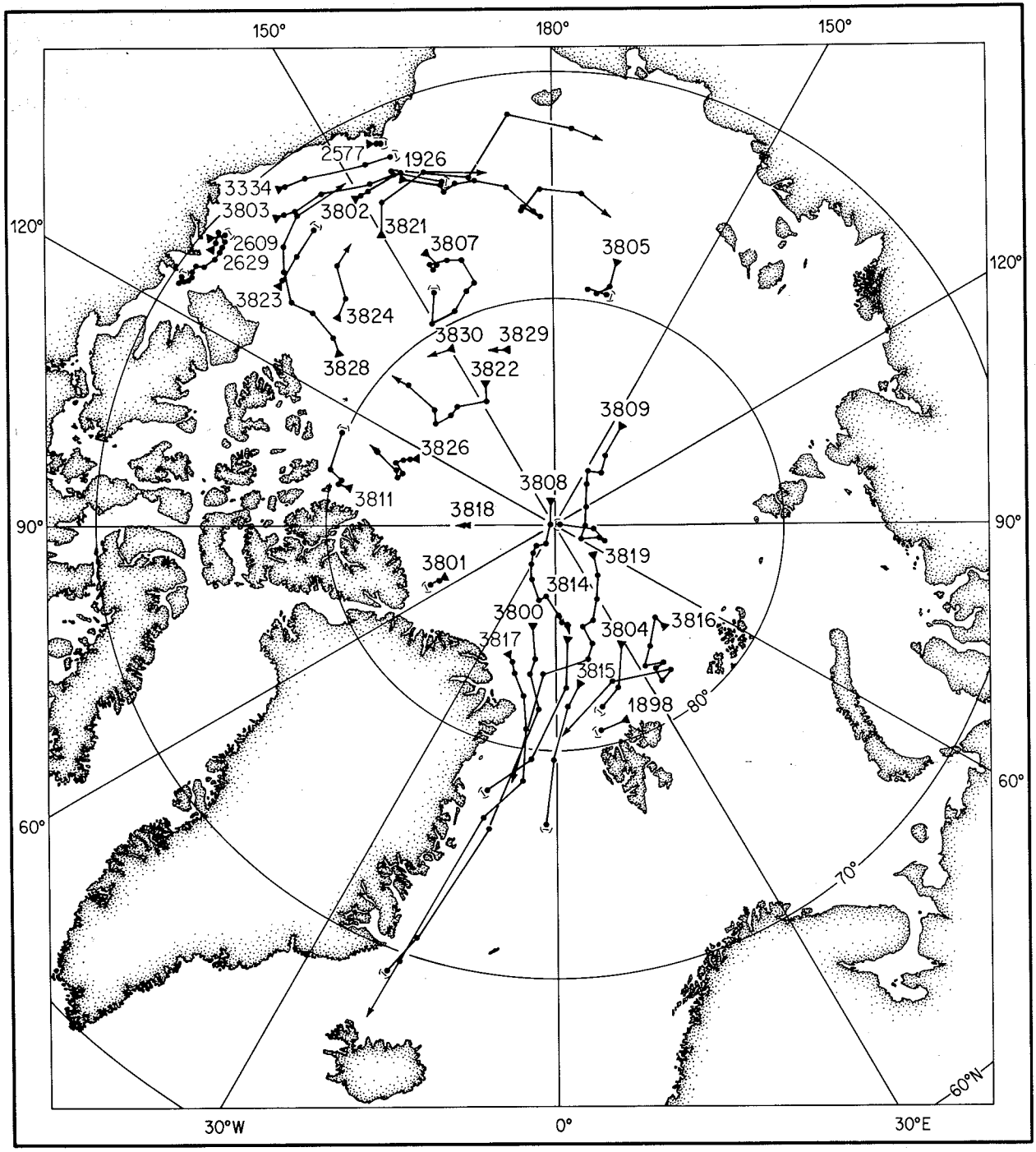
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Acknowledgment

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We are also grateful to Shell Oil Company and to Dome Petroleum Ltd. for their support.

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I. Introduction

This is the fourth in a series of reports containing data from the Arctic Basin Buoy Program. The data include the ice motion, atmospheric pressure, and temperature over the Arctic Ocean. This report covers the period 1 January 1982 through 31 December 1982. Additional copies of the data reports are available from the authors, upon request.

This report includes data from a number of automatic data buoys deployed on sea ice in the Arctic Ocean. Most of the buoys were deployed as part of the Arctic Basin Buoy Program, by the Polar Science Center of the University of Washington. During 1982, this program was coordinated with research and monitoring activities of the Norwegian Polar Institute, the Norwegian Meteorological Institute, and the Canadian Atmospheric Environment Service.

II. Measurement Program

Deployment Schedule

Buoys with identification numbers 1898, 1926, 1942, 2577, 3800, 3801, 3804, 3805, 3807, 3808, 3809, 3811, and 3814 were deployed in 1981 and continued to operate into 1982. The schedule of 1982 deployments was as follows:

1. 7 April: Buoys 3802 and 3803 were deployed in the Southern Beaufort Sea using Twin Otter aircraft and support of Shell Oil Company.
2. May: Buoys 3815, 3816, and 3817 were deployed north of Svalbard by the Norwegian Air Force.
3. May: Buoys 3818 and 3819 were deployed north of Greenland using C-130 aircraft in coordination with the Fram research station. 3818 failed during deployment.
4. 25-27 May: Buoys 3820, 3822, 3826, 3827, and 3828 were deployed in the Central Arctic by the Canadian Atmospheric Environment Service and the Canadian Department of National Defense. 3820 and 3827 failed during deployment.
5. 30 September: Buoys 3821 and 3824 were deployed in the Central Arctic by the

Canadian Department of National Defense.

6. 6-12 December: Buoys 3818, 3825, 3829, and 3830 were deployed in the Central Arctic by the Canadian Department of National Defense. 3825 failed during deployment.

Summary of buoy performance: January 1979 - June 1983

As of June 1983, 80 buoys had been deployed as part of this program and are documented in this series of data reports. Of these 6 were supplied by the Norwegian Polar Institute and 3 by the U. S. Coast Guard. Table 1 is a rough service record for these buoys. The average lifetime is 250 days per buoy.

Buoy failures

Table 1 indicates that 9 buoys did not survive the deployment. In 5 of these cases (2 in 1979 and 3 in 1982) the reason for this is known: the parachute broke loose from the buoy package immediately after the parachute opened. After the 1982 losses the harness which connects the parachute to the buoy was redesigned by the manufacturer. In a half dozen drops since with the new harness, no failures have occurred.

Other reasons for failure during deployment are electronic failure due to the impact with the surface and mechanical destruction of buoys which landed in active leads or thin ice. We have no evidence to indicate which of these or other causes may have done in the remaining 4 buoys which failed during deployment. These same reasons must also explain the failure of many buoys before their power supplies had run out.

Several buoys fail each year in the Greenland Sea, sometimes after a useful life of only a few months. The generally shorter lifetimes for these buoys tend to bring down the overall average performance statistics.

The most common cause of failure is loss of power. In the first years of the program the power supply was designed for one year of service. The length of service has since been extended using the same power supply by adopting a 2 hours on, 2 hours off duty cycle. One buoy with this feature has survived over 600 days. Some buoys being deployed in 1983 will have additional batteries and should give two or more years of service.

The improved buoy harness and the increased power supply should lead to longer periods of service from the buoys. An optimistic forecast is for an average of 400 days per buoy.

TABLE 1: BUOY PERFORMANCE STATISTICS 1979-1983

Days of Service	Number of Buoys
0	9
1-100	8
101-200	13 (2)*
201-300	18 (2)
301-400	19 (2)
401-500	9 (1)
501-600	3
601-	1 (1)

*Number in parentheses indicates buoys still operating as of 10 June 83.

III. Data Processing

The procedures for estimating ice motion and fields of atmospheric pressure and temperature from the buoy data have changed slightly each year. The changes are documented in this series of reports. The present scheme, which we hope will not change again, was described in a paper presented at the 1983 POAC meeting in Helsinki. It is reproduced here as an appendix.

BUOY(1898) JAN.	82	LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1			1034.5	-19.7
2	2	80.809	18.234	1030.9	-18.0
3	3	80.795*	18.167	1030.7	-16.4
4	4	80.785*	18.207	1024.4	-15.1
5	5	80.712*	18.433	1024.8	-16.0
6	6	80.709*	17.793	1025.7	-20.1
7	7	80.733	17.141	1020.5	-20.8
8	8	80.729	16.982	1009.2	-19.6
9	9	80.723	16.749	999.2	-19.3
10	10	80.591	16.566	1003.0	-20.4
11	11	80.446	15.822	1005.5	-22.2
12	12	80.309	15.647	1007.3	-23.6
13	13	80.363	15.129	998.3	-22.0
14	14	80.555	13.403	987.0	-18.3
15	15	80.578*	12.021	995.2	-13.7
16	16			1014.8	-9.0
17	17				
18	18				
19	19				
20	20				
21	21				
22	22				
23	23				
24	24				
25	25				
26	26				
27	27				
28	28				
29	29				
30	30				
31	31				

BUOY(1926) JAN. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1				
2	2			1017.4*	-29.8*
3	3			1019.0	-34.5
4	4	73.748	-158.397	1012.6	-32.9
5	5	73.739	-158.756	1017.7	-32.0
6	6	73.706	-158.769	1035.1	-36.6
7	7	73.811	-158.744	1024.7	-35.8
8	8	73.876	-158.712	1022.6	-25.1
9	9	73.832	-158.693	1040.3	-29.5
10	10	73.822	-158.769	1043.3	-39.8
11	11	73.826	-158.990	1040.1	-35.9
12	12	73.758	-159.179	1043.7	-39.9
13	13			1032.5	-37.6
14	14	73.576	-159.204	1042.9	-37.7
15	15				
16	16	73.530	-159.564	1022.7	-38.0
17	17	73.584	-159.917	1018.8	-35.1
18	18	73.652	-159.965	1013.8	-35.0
19	19	73.654	-159.852	1031.4	-36.5
20	20	73.725	-159.938	1033.2	-38.3
21	21	74.014	-160.230	1019.8	-30.0
22	22	74.099	-160.285	1029.0	-25.5
23	23	74.144	-160.516	1026.2	-30.8
24	24			1025.0	-33.3
25	25	74.182*	-160.948	1029.1	-35.9
26	26	74.150	-161.101	1023.1	-36.0
27	27	74.146	-161.226	1026.3	-39.4
28	28	74.123	-161.487	1025.0	-37.7
29	29	74.124	-162.040	1021.4	-36.4
30	30	74.168	-162.453	1025.0	-35.0
31	31			1030.2	-35.3

BUOY(1926) FEB. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
32	1	74.295	-163.394	1027.9	-35.9
33	2	74.353	-163.731	1023.4	-35.4
34	3	74.378	-164.031	1015.3	-34.8
35	4			1002.9	-27.3
36	5	74.350	-163.998	1037.5	-25.4
37	6	74.347	-164.035	1043.6	-33.9
38	7	74.463*	-164.445	1021.6	-25.3
39	8	74.502*	-164.287	1016.7	-16.7
40	9	74.453	-164.215	1025.7	-21.5
41	10	74.412	-164.309	1042.0	-31.4
42	11				
43	12			1007.9	-26.0
44	13	74.357	-163.554	1013.0	-30.2
45	14	74.285	-163.358	1008.3	-36.8
46	15	74.222*	-163.383	1015.6	-38.8
47	16			1015.5	-41.6
48	17	74.193	-163.301	1004.4	-38.5
49	18	74.191	-163.325	1013.9	-42.2
50	19	74.184	-163.327	1017.3	-44.5
51	20	74.188	-163.307	1019.9	-42.0
52	21	74.191	-163.289	1030.0	-41.7
53	22	74.201	-163.285	1040.2	-41.9
54	23	74.240	-163.291	1039.6	-37.8
55	24	74.350	-163.105	1028.4	-27.3
56	25	74.352	-162.776	1035.8	-27.2
57	26	74.337	-162.725	1033.9	-33.0
58	27	74.491	-162.892	1013.4	-25.5
59	28	74.536	-162.736	1016.2	-24.7

BUOY(1926) MAR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
60	1	74.597	-162.393	1011.8	-20.7
61	2	74.574	-162.171	1026.9	-29.8
62	3	74.576	-162.182	1027.0	-32.0
63	4	74.583	-162.400	1031.6	-34.6
64	5	74.591	-162.617	1034.7	-40.6
65	6	74.590	-162.695	1034.2	-40.1
66	7	74.590	-162.805	1028.0	-38.5
67	8	74.617	-163.032	1021.9	-36.6
68	9	74.652	-163.370	1017.4	-35.6
69	10	74.642	-163.625	1021.2	-37.5
70	11	74.602	-163.791	1020.8	-36.3
71	12	74.564	-164.047	1024.1	-32.4
72	13	74.506	-164.194	1027.3	-33.6
73	14	74.459	-164.320	1033.1	-35.0
74	15	74.403*	-164.287	1029.8	-36.8
75	16				
76	17				
77	18	74.315	-164.175	1010.6	-37.3
78	19	74.278	-164.126	1011.3	-39.1
79	20	74.272	-164.079	1016.4	-38.6
80	21	74.253	-164.034	1014.6	-37.0
81	22	74.170	-164.027	1023.1	-38.0
82	23	74.126	-163.937	1032.2	-38.4
83	24	74.127	-163.931	1034.4	-37.7
84	25	74.135	-163.945	1030.4	-36.9
85	26	74.128	-163.965	1032.6	-37.9
86	27	74.166	-164.103	1026.4	-37.3
87	28	74.230	-164.373	1021.4	-34.3
88	29	74.313	-164.587	1018.3	-32.3
89	30	74.346	-164.740	1021.5	-33.1
90	31	74.346	-164.757	1022.2	-34.0

BUOY(1926) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1	74.345	-164.762	1031.2	-35.4
92	2	74.349	-164.723	1037.8	-35.7
93	3	74.478	-164.999	1006.8*	-32.8*
94	4			1014.8*	-29.2*
95	5	74.478	-165.002	1017.1	-32.5
96	6	74.514	-165.605	1006.2	-32.2
97	7	74.569	-166.458	999.0	-27.7
98	8	74.550	-166.919	1010.5	-26.0
99	9	74.535	-167.148	1009.2	-26.0
100	10	74.520	-167.310	1007.7	-25.0
101	11	74.504	-167.406	1016.9	-27.3
102	12	74.451	-167.469	1028.6	-32.1
103	13	74.410	-167.418	1028.8	-32.9
104	14	74.380	-167.389	1027.9	-32.5
105	15	74.371*	-167.371	1024.7	-32.4
106	16				
107	17	74.355*	-167.370	1021.5*	-31.9*
108	18	74.391	-167.329	1016.3	-30.5
109	19	74.481	-167.300	1009.7	-28.8
110	20	74.551	-167.175	1000.0	-25.5
111	21	74.536	-166.952	1002.0	-23.7
112	22	74.465	-166.668	1014.8	-26.6
113	23	74.430	-166.578	1023.2	-27.5
114	24	74.427	-166.606	1024.8	-27.3
115	25	74.443	-166.685	1022.5	-26.6
116	26	74.465	-166.865	1019.4	-27.5
117	27	74.454	-167.124	1018.2	-27.5
118	28	74.438	-167.374	1010.6	-27.2
119	29	74.436	-167.616	1004.8	-24.4
120	30	74.461	-167.737	1015.6	-22.7

BUOY(1926) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1	74.480	-167.880	1019.3	-22.1
122	2	74.536	-168.195	1019.1	-18.6
123	3	74.568	-168.621	1023.2	-20.0
124	4	74.575	-168.884	1026.8	-21.8
125	5	74.571	-168.921	1029.7	-21.8
126	6	74.568	-168.925	1032.4	-21.4
127	7	74.561	-168.970	1034.0	-21.8
128	8	74.566	-169.110	1032.7	-20.5
129	9	74.619	-169.478	1024.1	-20.0
130	10	74.675	-169.930	1019.5	-19.3
131	11	74.704	-170.318	1018.5	-17.8
132	12	74.778	-170.670	1023.4	-17.2
133	13	74.791	-170.864	1024.5	-17.6
134	14	74.788	-170.907	1026.9	-16.8
135	15	74.783	-170.937	1033.7	-17.2
136	16	74.806	-171.018	1033.8	-15.9
137	17	74.859	-170.971	1030.5	-17.0
138	18	74.904	-170.958	1026.6	-16.5
139	19	74.932	-171.035	1022.3	-16.2
140	20	74.854	-171.270	1018.8	-16.5
141	21	74.805	-171.354	1016.4	-16.1
142	22	74.779	-171.418	1017.8	-15.7
143	23	74.771	-171.521	1019.7	-15.2
144	24	74.782	-171.753	1018.1	-15.3
145	25	74.788	-171.990	1020.5	-15.1
146	26	74.767	-172.062	1025.0	-14.5
147	27	74.753	-172.163	1024.3	-14.1
148	28	74.805	-172.489	1013.1	-14.4
149	29	74.878	-172.697	1007.5	-9.5
150	30	74.904	-172.658	1010.9	-7.5
151	31	74.935	-172.671	1017.8	-8.6

BUOY(1926) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	75.005	-172.721	1019.2	-8.5
153	2	75.089	-172.807	1018.1	-7.1
154	3	75.144	-173.028	1020.5	-7.7
155	4	75.169	-173.234	1017.9	-7.7
156	5	75.218	-173.529	1014.9	-7.6
157	6	75.309	-174.143	1008.5	-9.5
158	7	75.386	-174.610	1004.9	-7.8
159	8	75.513	-174.775	1014.0	-5.4
160	9	75.607	-174.949	1016.3	-5.7
161	10	75.692	-175.124	1022.4	-5.8
162	11	75.720	-175.404	1021.2	-5.4
163	12	75.730*	-175.678	1018.0	-6.7
164	13	75.745	-175.787	1011.8	-3.7
165	14	75.762	-175.809	1014.7	-4.5
166	15	75.779	-175.870	1023.7	-5.1
167	16	75.758	-176.083	1030.3	-6.0
168	17	75.816	-176.390	1028.4	-5.4
169	18	75.902	-176.638	1029.5	-5.3
170	19	75.957	-176.881	1025.3	-5.5
171	20	76.001	-177.112	1024.5	-5.9
172	21	76.028	-177.275	1023.4	-5.0
173	22	76.043	-177.480	1021.6	-4.7
174	23	76.089	-177.571	1017.5	-5.0
175	24			1001.1	-5.5
176	25	76.170	-176.807	1001.9	-4.8
177	26	76.138	-176.490	1004.1	-5.0
178	27	76.151	-176.449	1006.9	-4.3
179	28	76.118	-176.736	1005.6	-5.9
180	29	76.067	-176.683	1009.0	-5.2
181	30				

BUOY(1926) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	76.226*	-176.634	1003.5*	-6.6*
183	2	76.291	-176.800	1011.2	-5.7
184	3	76.290	-177.355	1003.5	-5.5
185	4	76.285	-177.585	1010.2	-4.4
186	5	76.276	-177.532	1018.6	-3.9
187	6	76.237	-177.553	1024.4	-2.1
188	7	76.230*	-177.666	1023.2	-2.2
189	8	76.248	-177.723	1022.8	-2.3
190	9	76.283	-177.812	1022.6	-2.8
191	10	76.374	-178.084	1016.9	-3.6
192	11	76.492	-178.220	1018.1	-5.2
193	12	76.580	-178.190	1016.6	-5.3
194	13	76.596	-178.031	1018.9	-4.8
195	14	76.621	-178.051	1019.6	-4.3
196	15	76.657	-178.062	1016.0	-4.6
197	16	76.649	-178.111	1018.4	-3.7
198	17	76.614	-177.954	1013.5	-3.3
199	18	76.611	-177.879	1012.0	-4.5
200	19	76.589	-177.857	1009.6	-3.9
201	20	76.548	-177.873	1007.9	-4.8
202	21	76.512	-177.924	1010.1	-4.3
203	22	76.487	-177.970	1009.1	-4.7
204	23	76.410	-177.922	1006.4	-5.5
205	24	76.327	-178.171	1007.0	-5.4
206	25	76.253	-178.637	1015.5	-6.0
207	26	76.207	-178.684	1015.1	-5.9
208	27	76.164	-178.586	1015.3	-5.0
209	28	76.137	-178.139	1011.4	-4.9
210	29	76.145	-177.933	1012.3	-5.0
211	30	76.170	-177.942	1014.2	-5.1
212	31	76.194	-177.779	1012.2	-4.5

BUOY(1926) AUG. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
213	1	76.184	-177.699	1011.7	-4.9
214	2	76.141	-177.499	1009.0	-5.6
215	3	76.084	-177.412	1013.8	-5.0
216	4	76.032	-177.200	1014.8	-5.5
217	5	76.028	-176.998	1013.5	-4.6
218	6	76.038	-176.801	1013.4	-3.2
219	7	76.061	-176.611	1016.2	-3.5
220	8	76.050	-176.739	1021.1	-4.9
221	9	76.034	-176.833	1020.1	-6.1
222	10			998.5	-6.9
223	11	76.001*	-176.804	1001.6	-6.5
224	12	75.991	-177.615	1005.0	-7.1
225	13	76.048	-177.989	1000.2	-6.5
226	14	76.093	-178.049	988.3	-6.9
227	15	76.093	-177.938	981.3	-7.8
228	16	76.025	-177.701	991.2	-7.9
229	17	75.958	-177.534	1001.3	-7.6
230	18	75.855	-177.306	1009.9	-7.5
231	19			1013.8	-8.5
232	20	75.705	-176.594	1017.9	-7.0
233	21	75.622	-176.210	1022.2	-6.0
234	22	75.581	-176.127	1021.4	-6.8
235	23	75.627	-176.201	1016.8	-6.6
236	24	75.725	-176.257	1012.2	-6.4
237	25	75.778	-176.254	1007.9	-6.4
238	26	75.748	-175.890	1016.6	-6.5
239	27			1019.1	-6.5
240	28	75.773	-175.474	1015.8	-6.0
241	29	75.885	-174.981	1017.1	-6.9
242	30	75.847	-174.932	1017.7	-7.5
243	31	75.803	-174.971	1016.6	-9.0

BUOY(1926) SEPT 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
244	1	75.756	-174.820	1018.3	-9.0
245	2	75.763	-174.895	1017.7	-7.1
246	3	75.820	-174.973	1013.1	-7.7
247	4			1014.3	-7.3
248	5	75.998*	-175.070	1015.6	-8.6
249	6	75.982	-175.055	1016.9	-8.8
250	7	75.914	-175.198	1021.9	-10.4
251	8	75.912	-175.063	1017.2	-8.9
252	9	75.971	-174.711	1016.1	-8.2
253	10	76.016	-174.489	1022.6	-9.5
254	11	76.008	-174.323	1024.8	-9.5
255	12	76.002	-174.218	1026.1	-10.7
256	13	76.000	-173.943	1018.9	-12.2
257	14	75.987	-173.808	1006.8	-9.2
258	15	75.947	-173.831	1006.4	-10.3
259	16	75.843	-174.132	1010.3	-14.5
260	17	75.736	-173.918	1009.3	-14.7
261	18	75.660	-173.752	1016.8	-14.6
262	19	75.629	-173.622	1023.7	-14.7
263	20	75.623	-173.586	1025.4	-14.1
264	21	75.649	-173.566	1025.0	-17.9
265	22	75.636	-173.705	1021.7	-18.6
266	23	75.629	-174.048	1016.8	-14.2
267	24	75.641	-174.351	1018.6	-12.6
268	25	75.635	-174.508	1019.5	-13.6
269	26	75.644	-174.565	1018.1	-13.0
270	27	75.695	-174.443	1021.2	-13.0
271	28	75.766*	-174.265	1025.9	-11.7
272	29	75.884*	-174.255	1022.0	-11.2
273	30	75.990*	-174.525	1028.2	-13.6

BUOY(1926) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1	76.027	-174.712	1033.2	-22.8
275	2	76.021	-174.613	1029.3	-21.3
276	3	75.972	-174.528	1022.7	-13.8
277	4	75.916	-174.473	1014.8	-12.3
278	5	75.813	-174.630	1016.4	-16.0
279	6	75.758	-174.714	1017.1	-21.0
280	7	75.758	-174.765	1016.4	-22.2
281	8	75.787	-174.793	1018.0	-30.1
282	9	75.765	-174.627	1015.3	-23.1
283	10	75.738	-174.536	1017.9	-23.1
284	11	75.701	-174.601	1020.9	-19.3
285	12	75.660	-174.791	1017.1	-23.7
286	13	75.614	-174.808	1015.0	-24.2
287	14	75.588	-174.827	1025.4	-24.6
288	15	75.575*	-174.777	1033.5	-24.2
289	16	75.613*	-174.881	1030.3	-30.4
290	17			1028.6	-30.5
291	18	75.733	-175.760	1008.2	-30.0
292	19			1005.0	-28.1
293	20	75.651	-176.729	1025.7	-31.1
294	21	75.637	-176.707	1033.5	-32.0
295	22	75.593	-176.618	1032.3	-31.0
296	23	75.587	-176.632	1023.3	-30.6
297	24	75.587	-176.783	1015.5	-29.7
298	25			1019.3	-30.1
299	26	75.463	-177.173	1021.7	-33.2
300	27	75.402	-177.375	1023.8	-33.4
301	28	75.364	-177.488	1015.4	-35.7
302	29	75.220	-177.703	995.7	-27.7
303	30	75.177	-178.167	1015.5	-26.7
304	31	75.113	-178.304	1022.5	-29.4

BUOY(1926) NOV. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
305	1	75.081	-178.337	1027.3	-34.1
306	2	75.078	-178.269	1031.7	-30.0
307	3			1034.6	-30.8
308	4	75.135	-178.432	1033.6	-35.8
309	5	75.128	-178.416	1034.0	-36.3
310	6	75.090	-178.407	1038.1	-33.4
311	7	75.051	-178.389	1040.3	-37.0
312	8			1032.6	-37.9
313	9	74.972	-178.522	1028.5	-36.2
314	10	74.959	-178.564	1027.5	-36.5
315	11			1024.2	-37.2
316	12	74.991	-179.480	1021.8	-35.6
317	13	75.019	179.779	1021.6	-30.4
318	14	75.026	179.178	1017.1	-31.9
319	15	75.067	178.687	1012.3	-29.7
320	16	75.134	178.263	1009.9	-23.7
321	17	75.220	177.783	1011.8	-26.0
322	18	75.318	177.523	1011.3	-31.3
323	19	75.428	177.115	1012.4	-27.0
324	20			1019.9	-30.7
325	21	75.463	175.836	1033.3	-35.8
326	22	75.445	175.404	1036.9	-35.8
327	23	75.431*	175.118	1038.1	-34.4
328	24			1036.6	-36.4
329	25	75.412	174.944	1030.4	-35.8
330	26	75.385	174.836	1023.2	-32.7
331	27	75.392	174.819	1028.8	-35.8
332	28			1030.5	-38.3
333	29	75.266	174.939	1018.9	-36.7
334	30			1011.7	-36.9

BUOY(1926) DEC. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1				
336	2				
337	3				
338	4	75.440*	174.585	1014.8*	-35.0*
339	5	75.519	174.421	1018.1	-27.4
340	6	75.544	174.387	1023.1	-26.6
341	7			1007.7	-26.8
342	8	75.660	173.582	1005.6	-24.3
343	9	75.693	172.979	1004.7	-28.6
344	10			1013.5	-22.1
345	11			1024.0	-18.3
346	12	75.907	171.874	1023.7	-21.1
347	13	75.997	171.823	1027.7	-24.6
348	14	75.970	171.783	1028.5	-31.8
349	15			1028.8	-33.2
350	16	75.939	171.865	1030.5	-36.5
351	17	75.943	171.840	1030.4	-38.2
352	18	75.952	171.727	1028.0	-37.4
353	19			1017.0	-34.4
354	20	75.986	171.182	1021.6	-34.8
355	21	75.966	171.188	1027.0	-36.0
356	22	75.970	171.138	1035.6	-35.8
357	23			1037.1	-38.1
358	24			1035.5	-37.4
359	25			1033.7	-37.2
360	26	76.040	170.535	1031.3	-35.1
361	27	76.103	169.980	1027.1	-35.0
362	28			1013.2	-33.8
363	29				
364	30				
365	31				

BUOY(2577) JAN. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1	71.301*	-155.802	1017.1	-20.2
2	2	71.300	-155.798	1014.6	-18.6
3	3	71.304	-155.800	1016.0	-18.6
4	4	71.300	-155.809	1007.8	-17.2
5	5	71.301	-155.807	1013.6	-14.9
6	6	71.297	-155.806	1036.4	-17.6
7	7	71.302	-155.800	1029.7	-20.1
8	8	71.297	-155.809	1025.9	-12.1
9	9	71.301	-155.808	1037.0	-9.7
10	10	71.300	-155.813	1039.2	-14.7
11	11	71.300	-155.807	1031.0	-17.5
12	12	71.301	-155.808	1040.7	-19.0
13	13	71.301	-155.801	1031.6	-19.8
14	14	71.301	-155.800	1040.9	-20.0
15	15	71.301	-155.806	1030.0	-21.1
16	16	71.300	-155.795	1016.3	-19.1
17	17	71.302	-155.809	1015.8	-17.4
18	18	71.301	-155.802	1015.7	-18.5
19	19	71.302	-155.804	1032.7	-18.6
20	20	71.301	-155.805	1033.2	-19.7
21	21	71.298	-155.807	1020.5	-15.4
22	22	71.306	-155.806	1027.0	-14.5
23	23	71.301	-155.808	1020.9	-14.7
24	24	71.303	-155.806	1017.0	-14.1
25	25	71.303	-155.805	1022.2	-13.9
26	26	71.301	-155.806	1016.5	-13.4
27	27	71.299	-155.799	1022.3	-14.8
28	28	71.305	-155.809	1015.5	-16.2
29	29	71.301	-155.803	1009.3	-15.2
30	30	71.301	-155.801	1017.9	-14.7
31	31	71.299	-155.804	1023.8	-14.6

BUOY(2577) FEB. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
32	1	71.300	-155.806	1022.1	-14.5
33	2	71.301	-155.809	1020.4	-14.9
34	3	71.298	-155.804	1012.7	-13.3
35	4	71.299	-155.794	1007.9	-9.3
36	5	71.304	-155.799	1038.2	-7.6
37	6	71.295	-155.801	1039.6	-10.2
38	7	71.299	-155.811	1030.0	-9.0
39	8	71.295	-155.801	1024.9	-6.2
40	9	71.299*	-155.810	1023.9	-5.0
41	10	71.296	-155.802	1040.4	-7.9
42	11	71.300	-155.806	1045.4	-12.2
43	12	71.305	-155.810	1016.1	-12.4
44	13	71.300	-155.800	1016.5	-9.1
45	14	71.299	-155.800	1008.1	-10.7
46	15	71.298	-155.805	1013.0	-14.3
47	16	71.297	-155.796	1016.7	-17.6
48	17	71.301	-155.803	1010.4	-19.4
49	18	71.299	-155.802	1013.2	-20.1
50	19	71.299	-155.804	1016.5	-20.0
51	20	71.300	-155.812	1022.0	-19.4
52	21	71.303	-155.808	1032.7	-19.9
53	22	71.300	-155.803	1043.2	-19.9
54	23	71.301	-155.809	1045.3	-19.1
55	24	71.300	-155.803	1039.8	-17.3
56	25	71.301	-155.802	1037.6	-14.5
57	26	71.300	-155.826	1037.6	-14.5
58	27	71.301	-155.808	1017.9	-14.0
59	28	71.299	-155.808	1024.2	-11.7

BUOY(2577) MAR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
60	1	71.301	-155.806	1022.1	-10.4
61	2	71.302	-155.800	1025.6	-10.0
62	3	71.301	-155.802	1025.7	-11.0
63	4	71.298	-155.792	1020.5	-11.3
64	5	71.302	-155.807	1027.5	-11.3
65	6	71.306	-155.792	1029.0	-13.2
66	7	71.298	-155.808	1021.2	-14.3
67	8	71.301	-155.792	1012.8	-14.2
68	9	71.298	-155.811	1007.7	-13.4
69	10	71.307	-155.816	1010.8	-13.6
70	11	71.301	-155.800	1014.6	-14.8
71	12	71.298	-155.806	1016.3	-15.3
72	13	71.300	-155.821	1020.9	-14.5
73	14	71.299	-155.802	1026.2	-15.9
74	15	71.297	-155.806	1027.9	-17.4
75	16	71.298	-155.803	1023.9	-17.7
76	17	71.299	-155.803	1008.8	-17.4
77	18	71.301	-155.806	1007.5	-16.5
78	19	71.302	-155.801	1007.6	-15.5
79	20	71.295	-155.804	1016.5	-15.5
80	21	71.297	-155.807	1008.9	-16.4
81	22	71.302	-155.801	1015.0	-14.9
82	23	71.300	-155.814	1027.1	-14.3
83	24	71.301	-155.806	1028.7	-14.1
84	25	71.299	-155.818	1024.1	-13.4
85	26	71.299	-155.800	1029.8	-13.2
86	27	71.299	-155.808	1024.8	-14.3
87	28	71.298	-155.802	1018.7	-14.9
88	29	71.296	-155.800	1016.3	-14.8
89	30	71.302	-155.798	1019.9	-15.2
90	31	71.305	-155.799	1023.5	-16.4

BUOY(2577) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1	71.302	-155.813	1030.1	-17.0
92	2	71.299	-155.804	1037.9	-17.4
93	3	71.302	-155.809	1016.6	-17.0
94	4	71.302	-155.811	1018.8	-13.8
95	5	71.299	-155.808	1012.3	-13.2
96	6	71.298	-155.809	1000.7	-11.1
97	7	71.300	-155.802	1005.5	-7.7
98	8	71.300	-155.800	1014.0	-6.5
99	9	71.301	-155.811	1008.8	-6.4
100	10	71.299	-155.825	1012.2	-7.5
101	11	71.303	-155.809	1013.0	-10.0
102	12	71.299	-155.806	1017.3	-11.5
103	13	71.301	-155.800	1023.6	-12.0
104	14	71.301	-155.804	1022.4	-13.2
105	15	71.298	-155.810	1020.2	-14.2
106	16	71.301	-155.800	1019.2	-14.8
107	17	71.303	-155.796	1020.3	-14.6
108	18	71.300	-155.804	1018.0	-13.8
109	19	71.301	-155.802	1017.1	-13.3
110	20	71.299	-155.805	1011.5	-13.6
111	21	71.301*	-155.804	1006.2	-12.8
112	22	71.301	-155.806	1016.2	-11.0
113	23	71.301	-155.803	1022.4	-11.5
114	24	71.299	-155.808	1022.1	-12.1
115	25	71.300	-155.802	1019.1	-12.4
116	26	71.300	-155.806	1012.1	-12.6
117	27	71.299	-155.797	1009.5	-12.5
118	28	71.301	-155.804	1004.6	-11.9
119	29	71.300	-155.800	1004.9	-10.3
120	30	71.302	-155.805	1014.1	-9.6

BUOY(2577) MAY	82	LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1	71.298	-155.806	1012.8	-8.5
122	2	71.299	-155.804	1015.1	-7.4
123	3	71.299	-155.806	1017.5	-6.9
124	4	71.300	-155.803	1023.0	-7.7
125	5	71.299	-155.805	1024.3	-7.7
126	6	71.298	-155.809	1028.1	-7.5
127	7	71.299	-155.803	1029.1	-7.6
128	8	71.300	-155.807	1029.0	-7.2
129	9			1020.6	-6.4
130	10	71.298	-155.805	1013.9	-6.4
131	11	71.299	-155.801	1015.6	-6.3
132	12	71.300	-155.799	1017.7	-6.3
133	13				
134	14				
135	15				
136	16				
137	17				
138	18				
139	19				
140	20				
141	21				
142	22				
143	23				
144	24				
145	25				
146	26				
147	27				
148	28				
149	29				
150	30				
151	31				

BUOY(2609) JAN. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1				
2	2				
3	3				
4	4				
5	5				
6	6				
7	7				
8	8				
9	9				
10	10				
11	11				
12	12	70.141*	-131.034	1029.1*	-31.9*
13	13	70.141	-131.031	1008.6	-27.4
14	14	70.138	-131.019	1021.9	-27.0
15	15	70.140	-131.028	1036.3	-27.6
16	16	70.140	-131.023	1019.1	-29.1
17	17	70.140	-131.025	1019.6	-29.7
18	18	70.140	-131.027	1023.5	-32.9
19	19	70.141	-131.022	1028.6	-34.0
20	20	70.141	-131.034	1046.9	-33.5
21	21	70.140	-131.031	1049.9	-33.5
22	22	70.142	-131.028	1043.3	-32.6
23	23	70.138	-131.033	1031.4	-30.1
24	24	70.143	-131.029	1016.6	-29.4
25	25	70.142	-131.031	1018.3	-31.7
26	26	70.135	-131.018	1023.3	-34.5
27	27	70.140	-131.030	1023.3	-33.1
28	28	70.141	-131.024	1027.6	-33.4
29	29	70.140	-131.024	1025.3	-32.5
30	30	70.140	-131.028	1023.4	-30.6
31	31	70.142	-131.023	1028.2	-30.6

BUOY(2609) FEB. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
32	1	70.139	-131.027	1036.6	-31.7
33	2	70.142	-131.025	1041.2	-32.1
34	3	70.138	-131.029	1029.1	-27.8
35	4	70.139	-131.025	1020.8	-18.4
36	5	70.141	-131.031	1019.9	-9.3
37	6	70.138	-131.026	1046.2	-16.3
38	7	70.140	-131.028	1040.9	-23.3
39	8	70.139	-131.037	1027.8	-15.8
40	9	70.140	-131.031	1013.8	-8.3
41	10	70.140	-131.039	1031.6	-13.8
42	11	70.140	-131.026	1035.8	-18.7
43	12	70.140	-131.025	1020.9	-18.3
44	13	70.139	-131.018	996.3	-13.9
45	14	70.141	-131.024	1004.5	-21.4
46	15	70.139	-131.028	1011.9	-28.7
47	16	70.137	-131.025	1006.9	-30.3
48	17	70.141	-131.025	1002.2	-27.2
49	18	70.141	-131.026	1007.4	-28.3
50	19	70.139	-131.031	1011.5	-32.8
51	20	70.140	-131.032	1014.6	-31.4
52	21	70.139	-131.029	1028.4	-30.2
53	22	70.142	-131.039	1044.3	-31.7
54	23	70.140	-131.032	1046.6	-31.1
55	24	70.141	-131.031	1050.0	-29.1
56	25	70.138	-131.028	1038.8	-27.2
57	26	70.141	-131.024	1032.1	-22.0
58	27	70.143	-131.030	1027.4	-26.9
59	28	70.141	-131.031	1032.0	-29.2

BUOY(2609) MAR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
60	1	70.140	-131.035	1024.0	-23.2
61	2	70.144	-131.024	1017.8	-15.6
62	3	70.138	-131.015	1026.8	-20.9
63	4	70.136	-131.036	1019.0	-25.0
64	5	70.140	-131.031	1031.5	-28.2
65	6	70.141	-131.028	1031.0	-29.9
66	7	70.137	-131.023	1027.1	-29.7
67	8	70.141	-131.031	1019.0	-29.1
68	9	70.139	-131.029	1013.4	-28.5
69	10	70.138	-131.025	1004.9	-28.2
70	11	70.142	-131.032	1010.0	-27.2
71	12	70.138	-131.029	1008.4	-27.2
72	13	70.141	-131.030	1012.8	-27.8
73	14	70.140	-131.032	1020.5	-31.2
74	15	70.139	-131.030	1024.2	-32.6
75	16	70.139	-131.028	1025.9	-30.1
76	17	70.139	-131.032	1017.9	-26.3
77	18	70.138	-131.022	1005.6	-22.1
78	19	70.140	-131.018	1000.5	-17.5
79	20	70.137	-131.036	1012.9	-16.2
80	21	70.140	-131.032	1015.6	-19.0
81	22	70.141	-131.028	1005.4	-15.6
82	23	70.140	-131.051	1024.9	-19.2
83	24	70.138	-131.034	1033.3	-23.0
84	25	70.139	-131.032	1024.9	-24.6
85	26	70.140	-131.034	1013.4	-18.4
86	27	70.138	-131.026	1014.2	-21.4
87	28	70.140	-131.032	1018.0	-24.6
88	29	70.142	-131.038	1015.5	-25.5
89	30	70.141	-131.029	1027.2	-25.9
90	31	70.142	-131.032	1032.7	-24.2

BUOY(2609) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1	70.140	-131.029	1030.9	-23.7
92	2	70.140	-131.032	1036.2	-23.2
93	3	70.141	-131.030	1032.4	-23.1
94	4	70.140	-131.031	1017.0	-22.1
95	5	70.138	-131.025	1016.7	-18.4
96	6	70.142	-131.029	1015.2	-14.8
97	7	70.140	-131.031	1005.2	-6.1
98	8	70.140	-131.035	1015.0	-4.1
99	9	70.140	-131.033	1012.8	-8.3
100	10	70.141	-131.038	1015.2	-17.1
101	11	70.142	-131.029	1010.6	-21.2
102	12	70.138	-131.033	1017.4	-21.5
103	13	70.140	-131.028	1020.2	-20.4
104	14	70.138	-131.031	1013.4	-18.4
105	15	70.145	-131.029	1011.4	-15.1
106	16	70.139	-131.026	1013.4	-15.9
107	17	70.140	-131.031	1016.6	-16.8
108	18	70.141	-131.032	1020.8	-17.7
109	19	70.140	-131.029	1016.7	-15.2
110	20	70.139	-131.025	1008.2	-11.1
111	21	70.141	-131.037	1010.6	-12.3
112	22	70.140	-131.023	1011.8	-10.2
113	23	70.137	-131.028	1013.9	-12.2
114	24	70.140	-131.035	1020.8	-16.2
115	25	70.141	-131.037	1019.6	-15.2
116	26	70.140	-131.026	1005.8	-13.5
117	27	70.138	-131.036	1005.7	-9.0
118	28	70.139	-131.029	1002.6	-8.6
119	29	70.140	-131.026	1002.6	-8.5
120	30	70.140	-131.027	1012.5	-4.0

BUOY(2609) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1	70.139	-131.028	1020.9	-7.8
122	2	70.139	-131.023	1018.4	-10.7
123	3	70.141	-131.024	1017.9	-9.5
124	4	70.138	-131.040	1024.6	-7.6
125	5	70.139	-131.033	1026.3	-4.5
126	6	70.139	-131.033	1021.1	-3.5
127	7	70.139	-131.028	1021.7	-3.8
128	8	70.137	-131.029	1023.2	-7.2
129	9	70.137	-131.018	1026.4	-6.2
130	10	70.138	-131.027	1019.3	-5.4
131	11	70.139	-131.033	1018.4	-7.5
132	12	70.139	-131.024	1019.1	-7.2
133	13	70.138	-131.026	1020.9	-7.5
134	14	70.139	-131.030	1026.0	-8.9
135	15	70.139	-131.029	1028.5	-7.1
136	16	70.139	-131.027	1028.5	-3.9
137	17	70.141	-131.026	1026.1	-.7
138	18	70.140	-131.029	1018.8	-1.3
139	19	70.139	-131.023	1008.9	-1.4
140	20	70.139	-131.028	1003.8	.5
141	21	70.140	-131.028	1011.8	-.1
142	22	70.138	-131.029	1013.0	1.5
143	23	70.139	-131.028	1014.8	.1
144	24	70.139	-131.025	1009.6	.3
145	25	70.140	-131.027	1012.3	-1.2
146	26	70.138	-131.029	1019.7	.7
147	27	70.139	-131.026	1025.1	.9
148	28	70.140	-131.025	1023.3	-1.3
149	29	70.139	-131.025	1022.2	-2.3
150	30	70.139	-131.028	1020.8	-1.2
151	31	70.138	-131.024	1023.0	1.2

BUOY(2609) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	70.138	-131.028	1021.5	3.5
153	2	70.139	-131.021	1017.7	3.9
154	3	70.138	-131.027	1013.0	2.2
155	4	70.139	-131.035	1020.3	.4
156	5	70.138	-131.027	1021.8	1.3
157	6	70.139	-131.030	1021.8	-1.0
158	7	70.138	-131.030	1023.3	.5
159	8	70.138	-131.028	1022.4	1.8
160	9	70.138	-131.027	1023.5	2.1
161	10	70.139	-131.028	1021.1	2.8
162	11	70.140	-131.024	1012.8	2.8
163	12	70.138	-131.025	1005.4	3.0
164	13	70.140	-131.026	1007.3	5.6
165	14	70.139	-131.022	1017.8	5.7
166	15	70.137	-131.022	1019.7	3.1
167	16	70.142	-131.030	1018.7	2.2
168	17	70.137	-131.021	1021.1	2.8
169	18	70.138	-131.025	1026.8	2.6
170	19	70.139	-131.026	1022.5	2.9
171	20	70.139	-131.028	1016.2	3.0
172	21	70.139	-131.026	1016.4	3.2
173	22	70.140	-131.022	1022.7	3.5
174	23	70.140	-131.028	1027.3	3.7
175	24	70.140	-131.030	1020.7	4.8
176	25	70.137	-131.025	1018.0	4.4
177	26	70.138	-131.027	1015.0	5.3
178	27	70.140	-131.025	1012.1	5.5
179	28	70.140	-131.026	1006.5	7.8
180	29	70.138	-131.032	999.1	7.5
181	30	70.139*	-131.025	1005.1*	3.9*

BUOY(2609) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	70.139*	-131.027	1008.8*	2.6*
183	2	70.138	-131.025	1006.5	3.4
184	3	70.139	-131.027	1008.4	4.9
185	4	70.139	-131.030	1009.2	5.5
186	5	70.139	-131.029	1006.6	6.1
187	6	70.137	-131.028	1007.5	5.9
188	7	70.140	-131.028	1013.6	3.9
189	8	70.139	-131.027	1015.2	3.9
190	9	70.139	-131.030	1016.8	4.4
191	10	70.122	-131.140	1020.7	3.8
192	11	70.163	-131.652	1021.2	3.5
193	12	70.206	-132.050	1021.6	4.0
194	13	70.201	-132.693	1018.9	4.5
195	14	70.323	-133.036	1015.3	4.5
196	15	70.639	-133.365	1010.7	6.4
197	16	70.745	-133.470	1004.5	10.0
198	17	70.695	-133.849	1005.9	11.8
199	18	70.559	-134.581	1013.5	10.2
200	19	70.235	-134.295	1012.4	9.2
201	20	70.155	-133.591	1008.7	9.1
202	21	70.018	-133.318	1007.1	9.7
203	22	70.004	-133.279	1000.9	11.1
204	23	69.999	-132.877	1013.0	10.2
205	24	70.148	-132.589	1004.1	11.6
206	25	70.055	-131.907		
207	26	70.258*	-131.528		
208	27				
209	28				
210	29				
211	30				
212	31				

BUOY(2629) JAN. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1				
2	2				
3	3				
4	4				
5	5				
6	6				
7	7				
8	8				
9	9				
10	10				
11	11				
12	12	70.293*	-130.404	1028.4*	-31.7*
13	13	70.295	-130.403	1007.6	-27.5
14	14	70.292	-130.400	1021.1	-27.6
15	15	70.294	-130.403	1035.7	-29.1
16	16	70.294	-130.405	1019.0	-29.7
17	17	70.293	-130.403	1019.2	-30.5
18	18	70.293	-130.402	1023.1	-34.1
19	19	70.294	-130.402	1028.2	-34.6
20	20	70.294	-130.408	1046.8	-34.4
21	21	70.293	-130.408	1049.8	-33.7
22	22	70.295	-130.404	1043.6	-32.0
23	23	70.293	-130.406	1031.2	-30.0
24	24	70.296	-130.405	1016.3	-30.1
25	25	70.292	-130.406	1018.4	-32.0
26	26	70.294	-130.400	1023.5	-34.2
27	27	70.294	-130.403	1022.5	-33.5
28	28	70.293	-130.407	1027.1	-33.5
29	29	70.293	-130.408	1024.9	-33.0
30	30	70.294	-130.402	1023.0	-30.7
31	31	70.295	-130.405	1027.0	-30.9

BUOY(2629) FEB. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
32	1	70.294	-130.403	1036.0	-32.3
33	2	70.295	-130.403	1041.1	-32.7
34	3	70.293	-130.411	1029.9	-27.3
35	4	70.290	-130.405	1021.2	-17.6
36	5	70.295	-130.401	1018.5	-9.2
37	6	70.292	-130.400	1044.9	-15.7
38	7	70.293	-130.406	1041.1	-23.9
39	8	70.292	-130.410	1026.9	-16.0
40	9	70.292	-130.407	1013.3	-8.1
41	10	70.292	-130.409	1031.1	-14.5
42	11	70.294	-130.403	1034.6	-19.1
43	12	70.294	-130.399	1020.2	-18.6
44	13	70.292	-130.400	994.7	-13.6
45	14	70.293	-130.410	1003.9	-21.6
46	15	70.293	-130.416	1011.6	-30.2
47	16	70.291	-130.400	1006.9	-31.5
48	17	70.292	-130.403	1002.2	-27.0
49	18	70.293	-130.402	1006.9	-28.7
50	19	70.292	-130.403	1010.9	-33.9
51	20	70.294	-130.402	1013.8	-31.6
52	21	70.294	-130.405	1027.4	-29.5
53	22	70.292	-130.407	1043.6	-31.3
54	23	70.294	-130.407	1045.8	-31.1
55	24	70.294	-130.406	1049.9	-29.4
56	25	70.294	-130.403	1038.2	-27.9
57	26	70.291	-130.409	1030.9	-21.7
58	27	70.292	-130.406	1027.2	-27.0
59	28	70.291	-130.401	1032.2	-28.7

BUOY(2629) MAR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
60	1	70.292	-130.402	1023.6	-23.0
61	2	70.297	-130.397	1016.8	-15.1
62	3	70.288	-130.394	1025.9	-21.0
63	4	70.289	-130.415	1018.7	-24.3
64	5	70.294	-130.408	1030.8	-28.5
65	6	70.294	-130.412	1031.2	-31.0
66	7	70.292	-130.409	1026.9	-30.0
67	8	70.293	-130.397	1019.1	-28.9
68	9	70.296	-130.407	1013.5	-27.8
69	10	70.292	-130.405	1005.1	-27.3
70	11	70.294	-130.410	1009.6	-26.7
71	12	70.292	-130.406	1008.0	-26.9
72	13	70.294	-130.408	1012.6	-28.5
73	14	70.294	-130.419	1020.1	-31.2
74	15	70.293	-130.415	1023.9	-32.5
75	16	70.291	-130.398	1025.1	-29.8
76	17	70.295	-130.409	1018.3	-26.0
77	18	70.292	-130.404	1005.0	-22.4
78	19	70.293	-130.402	1000.6	-17.6
79	20	70.291	-130.399	1012.9	-15.7
80	21	70.293	-130.418	1015.4	-18.6
81	22	70.294	-130.405	1004.5	-15.8
82	23	70.296	-130.417	1024.6	-18.6
83	24	70.290	-130.401	1033.5	-23.0
84	25	70.293	-130.413	1026.0	-23.6
85	26	70.295	-130.391	1012.3	-18.2
86	27	70.294	-130.407	1012.9	-20.0
87	28	70.292	-130.401	1016.9	-24.1
88	29	70.296	-130.406	1014.6	-25.4
89	30	70.295	-130.402	1027.0	-25.4
90	31	70.294	-130.406	1033.0	-23.5

BUOY(2629) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1	70.293	-130.405	1030.7	-22.9
92	2	70.294	-130.407	1035.9	-22.6
93	3	70.295	-130.407	1032.3	-22.6
94	4	70.292	-130.404	1016.8	-21.7
95	5	70.294	-130.402	1016.9	-17.8
96	6	70.292	-130.405	1015.2	-14.3
97	7	70.292	-130.406	1004.3	-6.7
98	8	70.292	-130.415	1014.2	-3.7
99	9	70.293	-130.405	1013.2	-9.7
100	10	70.294	-130.412	1015.6	-17.0
101	11	70.295	-130.402	1010.7	-20.3
102	12	70.292	-130.406	1017.0	-21.0
103	13	70.292	-130.412	1020.3	-19.4
104	14	70.292	-130.401	1013.9	-17.5
105	15	70.294	-130.400	1011.0	-15.0
106	16	70.293	-130.406	1012.9	-15.6
107	17	70.294	-130.412	1016.2	-16.4
108	18	70.294	-130.408	1020.8	-16.9
109	19	70.293	-130.404	1017.1	-14.7
110	20	70.293	-130.403	1008.2	-10.3
111	21	70.295	-130.405	1010.1	-11.4
112	22	70.294	-130.403	1011.3	-10.3
113	23	70.292	-130.406	1013.4	-12.0
114	24	70.293	-130.411	1020.4	-15.5
115	25	70.295	-130.412	1019.6	-14.8
116	26	70.294	-130.401	1006.8	-13.2
117	27	70.292	-130.405	1006.0	-9.9
118	28	70.292	-130.403	1003.8	-9.0
119	29	70.294	-130.404	1003.3	-9.5
120	30	70.293	-130.402	1012.4	-5.0

BUOY(2629) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1	70.293	-130.399	1021.8	-7.7
122	2	70.292	-130.398	1018.9	-10.6
123	3	70.294	-130.407	1017.9	-9.6
124	4	70.293	-130.402	1024.7	-7.5
125	5	70.292	-130.410	1026.8	-4.3
126	6	70.292	-130.410	1021.5	-3.2
127	7	70.292	-130.407	1020.9	-3.0
128	8	70.293	-130.406	1022.7	-6.6
129	9	70.293	-130.402	1026.0	-5.0
130	10	70.293	-130.406	1019.7	-3.9
131	11	70.293	-130.406	1018.5	-6.7
132	12	70.293	-130.406	1019.1	-6.7
133	13	70.292	-130.402	1021.0	-7.2
134	14	70.292	-130.398	1025.7	-8.1
135	15	70.292	-130.402	1028.2	-5.5
136	16	70.293	-130.401	1028.4	-3.5
137	17	70.293	-130.400	1026.6	-.5
138	18	70.291	-130.399	1020.2	-.9
139	19	70.292	-130.400	1010.0	-1.5
140	20	70.292	-130.403	1003.2	.7
141	21	70.293	-130.405	1011.8	.8
142	22	70.292	-130.406	1012.9	2.5
143	23	70.292	-130.407	1014.6	.8
144	24	70.292	-130.407	1010.1	1.3
145	25	70.293	-130.403	1012.4	.0
146	26	70.293	-130.410	1019.3	1.6
147	27	70.293	-130.405	1025.2	2.0
148	28	70.293	-130.400	1023.8	-.3
149	29	70.292	-130.401	1022.2	-1.4
150	30	70.291	-130.402	1021.3	-.5
151	31	70.292	-130.400	1022.9	1.3

BUOY(2629) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	70.291	-130.400	1021.9	4.1
153	2	70.292	-130.402	1017.3	4.9
154	3	70.293	-130.402	1013.9	3.6
155	4	70.292	-130.407	1020.2	1.8
156	5	70.291	-130.402	1021.8	2.0
157	6	70.292	-130.404	1021.9	.7
158	7	70.292	-130.403	1023.8	1.2
159	8	70.292	-130.402	1022.9	2.3
160	9	70.291	-130.401	1023.9	2.3
161	10	70.293	-130.401	1020.9	3.7
162	11	70.294	-130.403	1012.7	3.9
163	12	70.291	-130.400	1006.0	3.9
164	13	70.296	-130.407	1006.7	6.5
165	14	70.292	-130.400	1017.8	6.7
166	15	70.292	-130.402	1019.7	4.1
167	16	70.291	-130.401	1019.1	2.8
168	17	70.291	-130.398	1021.1	3.3
169	18	70.292	-130.402	1026.6	3.6
170	19	70.293	-130.406	1022.8	3.6
171	20	70.294	-130.408	1016.8	3.4
172	21	70.292	-130.406	1016.8	3.7
173	22	70.294	-130.407	1022.9	4.6
174	23	70.293	-130.406	1027.3	5.3
175	24	70.293	-130.405	1021.3	7.1
176	25	70.292	-130.404	1017.8	5.0
177	26	70.292	-130.404	1014.7	7.6
178	27	70.294	-130.405	1012.5	7.2
179	28	70.292	-130.401	1006.8	8.4
180	29	70.292	-130.402	998.8	8.7
181	30	70.292*	-130.403	1004.8*	6.0*

BUOY(2629) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	70.293*	-130.405	1008.7*	3.2*
183	2	70.292	-130.405	1006.8	4.1
184	3	70.292	-130.405	1008.7	6.0
185	4	70.292	-130.407	1008.8	6.5
186	5	70.293	-130.406	1006.9	6.9
187	6	70.293	-130.406	1007.5	6.4
188	7	70.294	-130.406	1013.5	5.5
189	8	70.294	-130.401	1014.9	4.3
190	9	70.294	-130.430	1017.2	5.1
191	10	70.315	-130.930	1021.1	4.1
192	11	70.321	-131.618	1021.1	4.0
193	12	70.367	-132.063	1021.6	4.7
194	13	70.419	-132.330	1019.3	5.0
195	14	70.529	-132.524	1016.2	5.5
196	15	70.803	-132.415	1011.1	4.7
197	16	70.863	-132.634	1004.8	7.6
198	17	70.820	-133.113	1003.5	10.7
199	18	70.687	-133.754	1011.6	9.9
200	19	70.445	-133.427	1008.4	8.8
201	20	70.342	-132.907	1008.0	8.1
202	21	70.277	-132.591	1006.0	8.5
203	22	70.307	-132.778	1000.4	10.4
204	23	70.319	-132.877	1011.9	10.4
205	24	70.483	-133.163	1002.7	12.0
206	25	70.295	-132.807	1010.8	11.4
207	26	70.355	-133.297	1017.1	10.7
208	27	70.420	-133.441	1014.5	10.4
209	28	70.120	-132.897	1014.0	6.9
210	29	70.095	-131.700	1013.8	6.4
211	30			1016.1	8.2
212	31	70.594	-131.401	1016.1	7.9

BUOY(2629) AUG. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
213	1	70.663	-131.715	1013.6	9.2
214	2	70.618	-130.859	1010.0	7.5
215	3	70.648	-129.785	1009.9	7.2
216	4	70.642	-128.918	1010.1	6.3
217	5	70.567	-127.195	1014.5	6.1
218	6	70.320	-126.574	1019.8	5.9
219	7	70.303	-125.732	1024.2	6.5
220	8	70.461	-124.874	1018.6	8.0
221	9	70.412	-124.573	1002.3	8.2
222	10	70.304	-124.186	1001.8	8.3
223	11	70.000	-123.579	1008.4	8.1
224	12	69.952	-124.223	1009.3	7.9
225	13	69.943	-124.423	1015.5	7.4
226	14	69.943	-124.428	1011.4	9.0
227	15	69.943	-124.427	1009.2	13.1
228	16	69.943	-124.423	1014.1	10.5
229	17	69.948	-124.413	1010.4	11.1
230	18	69.945	-124.411	1012.4	12.6
231	19	69.943	-124.423	1024.2	8.0
232	20	69.942	-124.421	1017.0	9.7
233	21	69.942	-124.424	1015.5	6.4
234	22	69.945	-124.434	1011.5	4.2
235	23	69.944	-124.430	1018.7	2.9
236	24	69.944	-124.423	1024.1	3.3
237	25	69.944	-124.425	1029.7	3.2
238	26	69.946	-124.412	1026.6	5.0
239	27	69.949	-124.400	1019.3	6.9
240	28	69.946	-124.420	1016.0	7.5
241	29	69.950	-124.435	1017.4	5.8
242	30	69.945	-124.423	1013.2	6.7
243	31	69.942	-124.407	1009.4	8.7

BUOY(2629) SEPT 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
244	1	69.943	-124.424	1010.4	9.1
245	2	69.941	-124.413	1016.2	8.7
246	3	69.945	-124.422	1020.1	8.1
247	4	69.944	-124.431	1021.8	8.2
248	5	69.947	-124.433	1014.2	8.3
249	6	69.945	-124.398	1007.5	6.8
250	7	69.945	-124.411	1000.2	6.3
251	8	69.942	-124.426	998.7	5.9
252	9	69.943	-124.429	1005.0	5.4
253	10	69.943	-124.423	1010.3	5.1
254	11	69.933	-124.396	1013.7	4.7
255	12	69.942	-124.430	1021.0	4.0
256	13	69.941	-124.407	1023.7	4.6
257	14	69.942	-124.418	1004.3	6.8
258	15	69.944	-124.437	1014.6	5.3
259	16	69.943	-124.423	1000.7	4.3
260	17	69.945	-124.447	994.0	8.5
261	18	69.943	-124.418	1014.5	3.4
262	19	69.944	-124.430	1018.0	1.4
263	20	69.944	-124.436	1012.7	2.5
264	21	69.941	-124.409	1006.2	1.6
265	22	69.945	-124.426	1013.3	.7
266	23	69.945	-124.426	1018.5	.1
267	24	69.942	-124.429	1012.5	1.8
268	25	69.942	-124.429	1010.6	2.2
269	26	69.946	-124.427	1016.5	2.1
270	27	69.946	-124.423	1012.6	2.6
271	28	69.942	-124.425	1016.7	2.7
272	29	69.946	-124.428	1020.7	1.7
273	30	69.943	-124.418	1015.2	.8

BUOY(2629) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1	69.944	-124.415	1013.1	-.6
275	2	69.945	-124.425	1014.6	-2.1
276	3	69.945	-124.431	1006.0	-2.6
277	4	69.942	-124.427	1004.4	-4.0
278	5	69.942	-124.426	1006.4	-3.6
279	6	69.945	-124.426	1007.7	-4.3
280	7	69.946	-124.434	1002.6	-2.2
281	8	69.946	-124.421	1010.7	-1.7
282	9	69.939	-124.411	1011.1	-1.3
283	10	69.943	-124.430	1010.5	-1.6
284	11	69.942	-124.422	1010.3	-1.1
285	12	69.942	-124.419	1011.4	-1.3
286	13	69.944	-124.429	1008.9	-1.4
287	14	69.944	-124.423	1013.3	-1.4
288	15	69.945	-124.421	1028.1	-3.4
289	16	69.943	-124.429	1030.3	-5.8
290	17	69.946	-124.416	1018.4	-10.5
291	18	69.944	-124.428	1024.9	-9.5
292	19	69.941	-124.418	1006.1	-7.8
293	20	69.943	-124.427	1006.3	-3.2
294	21	69.941	-124.428	1015.3	-5.5
295	22	69.944	-124.427	1016.8	-7.8
296	23			1018.0	-7.7
297	24	69.943*	-124.425	1008.1	-6.8
298	25	69.945	-124.431	999.0	-7.8
299	26	69.945	-124.424	999.2	-7.0
300	27	69.945	-124.415	1003.2	-6.7
301	28	69.943	-124.417	1004.4	-13.3
302	29	69.943	-124.419	998.8	-18.5
303	30	69.945	-124.419	999.2	-13.2
304	31	69.945	-124.427	1007.2	-16.1

BUOY(2629) NOV. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
305	1	69.942	-124.425	1020.1	-18.8
306	2	69.944	-124.426	1022.5	-16.0
307	3	69.943	-124.431	1021.7	-12.4
308	4	69.943	-124.432	1006.3	-13.2
309	5	69.943	-124.430	1015.6	-18.1
310	6	69.943	-124.430	1020.6	-22.3
311	7	69.948	-124.425	1024.6	-21.3
312	8	69.944	-124.410	1024.2	-21.8
313	9	69.942	-124.431	1016.7	-26.7
314	10	69.943	-124.418	1022.1	-27.5
315	11	69.943	-124.425	1024.3	-25.9
316	12	69.943	-124.415	1023.6	-24.7
317	13	69.944	-124.425	1019.1	-25.7
318	14	69.943	-124.437	1015.7	-25.8
319	15				
320	16	69.945	-124.423	1019.4	-24.9
321	17			1013.1*	-23.0*
322	18				
323	19				
324	20				
325	21				
326	22				
327	23				
328	24				
329	25				
330	26				
331	27				
332	28				
333	29				
334	30				

BUOY(3334) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1				
92	2				
93	3				
94	4				
95	5				
96	6				
97	7				
98	8				
99	9				
100	10				
101	11				
102	12				
103	13				
104	14				
105	15				
106	16				
107	17				
108	18			1019.3*	-3.9*
109	19	71.059	-142.421	1016.8	-4.0
110	20	71.056	-142.436	1012.0	-4.0
111	21	71.069	-142.404	1008.6	-4.0
112	22	71.050	-142.184	1014.0	-4.0
113	23	71.025	-142.075	1018.8	-4.0
114	24	71.028	-142.077	1021.5	-4.1
115	25	71.029	-142.081	1019.1	-4.4
116	26	71.034	-142.186	1007.7	-4.1
117	27	71.026	-142.207	1007.3	-4.1
118	28	71.027	-142.201	1001.9	-4.1
119	29	71.038	-142.214	1004.1	-3.9
120	30	71.035	-142.199	1013.8	-3.9

BUOY(3334) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1	71.063	-142.317	1015.7	-3.9
122	2	71.128	-142.787	1014.3	-3.9
123	3	71.151	-143.198	1019.5	-3.6
124	4	71.150	-143.418	1025.1	-3.6
125	5	71.147	-143.420	1025.8	-3.6
126	6	71.137	-143.396	1025.2	-3.6
127	7	71.110	-143.326	1024.7	-3.4
128	8	71.079	-143.346	1028.2	-3.4
129	9	71.072	-143.369	1025.3	-3.4
130	10	71.138	-143.816	1017.3	-3.4
131	11	71.166	-144.219	1019.0	-3.1
132	12	71.220	-144.703	1018.8	-3.1
133	13	71.234	-144.973	1022.6	-3.1
134	14	71.231	-144.971	1027.3	-3.1
135	15	71.231	-144.989	1030.4	-3.1
136	16	71.232	-145.074	1030.6	-3.1
137	17	71.230	-145.080	1027.3	-2.9
138	18	71.230	-145.081	1019.4	-2.9
139	19	71.230	-145.077	1008.0	-2.9
140	20	71.227	-145.055	1004.2	-2.9
141	21	71.197	-144.866	1009.5	-2.9
142	22	71.195	-144.837	1014.7	-2.9
143	23	71.191	-144.862	1016.0	-2.6
144	24	71.195	-144.923	1010.7	-2.6
145	25	71.196	-144.926	1013.5	-2.6
146	26	71.194	-144.917	1021.3	-2.6
147	27	71.189	-144.907	1027.0	-2.6
148	28	71.227	-145.188	1019.1	-2.6
149	29	71.279	-145.488	1020.6	-2.4
150	30	71.300	-145.511	1017.7	-2.4
151	31	71.307	-145.385	1023.3	-2.5

BUOY(3334) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	71.294	-145.265	1023.0	-2.5
153	2	71.293	-145.336	1015.3	-2.3
154	3	71.336	-145.687	1014.1	-2.1
155	4	71.398	-145.990	1020.7	-2.1
156	5	71.487	-146.385	1017.7	-2.1
157	6	71.619	-146.952	1012.2	-2.2
158	7	71.748	-147.468	1012.4	-1.9
159	8	71.783	-147.674	1018.5	-1.9
160	9	71.763	-147.846	1019.9	-1.9
161	10	71.835	-148.126	1018.7	-1.9
162	11	71.889	-148.637	1014.9	-1.9
163	12	71.892	-149.001	1010.3	-1.9
164	13	71.875	-149.226	1013.1	-1.9
165	14	71.857	-149.419	1019.8	-1.9
166	15	71.868	-149.582	1024.5	-1.9
167	16	71.900	-149.873	1029.7	-1.9
168	17	71.906	-150.304	1030.1	-1.8
169	18	71.903	-150.740	1028.3	-1.6
170	19	71.919	-151.221	1023.9	-1.6
171	20	71.908	-151.605	1021.2	-1.6
172	21	71.916	-152.056	1018.8	-1.6
173	22	71.985	-152.687	1019.3	-1.5
174	23	72.032	-152.946	1023.2	-1.5
175	24	72.034	-152.911	1021.5	-1.4
176	25	72.058	-152.805	1013.0	-1.4
177	26	72.057	-152.695	1016.0	-1.4
178	27	72.070	-152.787	1009.3	-1.4
179	28	72.091	-152.948	1000.2	-1.4
180	29	72.070	-153.254	1002.1	-1.3
181	30				

BUOY(3334) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	72.066*	-153.314	1006.9*	-1.2*
183	2	72.123	-153.760	1001.7	-1.1
184	3	72.181	-153.827	1008.9	-1.1
185	4	72.212	-153.952	1014.5	-1.1
186	5	72.221	-154.310	1014.9	-1.1
187	6	72.179	-154.852	1013.7	-1.0
188	7	72.167	-155.175	1018.4	-1.0
189	8	72.143	-155.391	1020.4	-.9
190	9	72.146	-155.753	1021.2	-1.0
191	10	72.199	-156.178	1020.1	-1.0
192	11	72.259	-156.540	1021.2	-1.0
193	12				
194	13				
195	14				
196	15				
197	16				
198	17				
199	18				
200	19				
201	20				
202	21				
203	22				
204	23				
205	24				
206	25				
207	26				
208	27				
209	28				
210	29				
211	30				
212	31				

BUOY(3800) JAN. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1	85.242*	-12.511	1036.5	-29.5
2	2	85.240	-12.430	1030.3	-29.4
3	3	85.239	-12.450	1029.4	-25.6
4	4	85.222	-12.298	1022.9	-26.7
5	5	85.209	-12.351	1030.1	-29.2
6	6	85.207	-12.585	1032.8	-33.2
7	7	85.206	-12.700	1025.1	-34.2
8	8	85.200	-12.870	1014.0	-34.3
9	9	85.166	-12.600	1011.1	-33.3
10	10	85.102	-12.270	1014.4	-32.3
11	11	85.022	-11.694	1016.1	-35.9
12	12	84.990	-11.386	1008.0	-38.8
13	13	85.061	-12.013	1006.8	-36.6
14	14	85.079	-12.962	1006.6	-33.2
15	15	85.063	-13.290	1012.1	-35.8
16	16	85.048	-13.138	1020.1	-37.4
17	17	85.014	-12.778	1023.8	-37.9
18	18	84.980	-12.493	1017.9	-37.9
19	19	84.922	-11.964	1023.6	-36.5
20	20	84.855	-11.406	1031.0	-35.0
21	21	84.789	-10.881	1037.8	-35.6
22	22	84.605	-9.414	1017.2	-29.9
23	23	84.458	-9.360	1032.2	-29.1
24	24	84.379	-9.016	1021.5	-28.0
25	25	84.245	-8.972	1012.1	-23.0
26	26	84.211	-9.098	1022.5	-26.6
27	27	84.209	-9.076	1008.2	-30.1
28	28	84.183	-9.089	1007.0	-34.6
29	29	84.103	-9.108	1006.2	-34.9
30	30	84.005	-8.878	1007.1	-34.0
31	31	83.928	-8.711	1010.0	-32.5

BUOY(3800) FEB. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
32	1	83.864	-8.657	1016.2	-32.4
33	2	83.841	-8.556	1018.6	-32.6
34	3	83.770	-8.474	1032.3	-33.6
35	4				
36	5	83.767*	-8.507	1020.1*	-33.8*
37	6	83.787	-8.540	1000.5	-29.8
38	7	83.735	-8.740	1009.9	-27.1
39	8	83.715	-8.932	1011.1	-27.9
40	9	83.716	-9.000	1002.3	-28.6
41	10	83.712	-9.011	995.5	-27.1
42	11	83.700	-9.117	997.4	-27.3
43	12	83.629	-9.586	995.4	-27.0
44	13	83.520	-9.988	994.8	-26.6
45	14	83.392	-10.057	999.3	-27.0
46	15	83.321	-9.876	1007.8	-29.9
47	16				
48	17				
49	18				
50	19				
51	20				
52	21				
53	22				
54	23				
55	24				
56	25				
57	26				
58	27				
59	28				

BUOY(3800) MAR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
60	1				
61	2				
62	3				
63	4				
64	5				
65	6				
66	7				
67	8				
68	9	82.236*	-6.768	1006.1*	-22.0*
69	10	82.245	-6.880	995.2	-16.6
70	11	82.188	-6.899	1007.9	-16.0
71	12	82.095	-6.945	1017.0	-20.7
72	13	82.004	-6.881	1016.0	-22.9
73	14	81.966	-6.748	1020.1	-23.0
74	15	81.958	-6.743	1022.6	-18.7
75	16			1023.1	-18.7
76	17	81.967	-6.140	1009.5	-18.1
77	18	81.866	-5.839	1020.6	-20.3
78	19	81.895	-5.581	1005.0	-20.2
79	20	81.798	-5.351	1010.2	-20.4
80	21				
81	22				
82	23				
83	24				
84	25				
85	26				
86	27				
87	28				
88	29				
89	30				
90	31				

BUOY(3800) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1				
92	2				
93	3				
94	4				
95	5				
96	6				
97	7				
98	8				
99	9				
100	10				
101	11				
102	12				
103	13				
104	14				
105	15	77.845	-11.303	995.8	-12.3
106	16	77.700	-11.476	1003.1	-13.7
107	17	77.578	-11.488	1007.2	-16.4
108	18				
109	19				
110	20				
111	21	77.125*	-12.049	985.1*	-12.4*
112	22	77.027	-11.949	986.7	-13.1
113	23	76.856	-11.536	994.6	-14.6
114	24	76.790	-11.568	994.6	-15.1
115	25	76.517	-11.945	993.2	-14.5
116	26	76.239	-12.640	1013.0	-14.1
117	27				
118	28				
119	29				
120	30				

BUOY(3800) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1				
122	2				
123	3				
124	4				
125	5				
126	6	73.869*	-16.532	1010.8*	-11.6*
127	7	73.690	-16.719	1016.3	-9.8
128	8	73.613	-16.877	1017.0	-8.7
129	9	73.538	-17.027	1019.4	-7.3
130	10	73.437	-17.225	1011.0	-7.0
131	11	73.271	-17.486	1013.8	-7.9
132	12	73.097	-17.690	1025.4	-8.2
133	13	72.915	-17.779	1033.6	-8.4
134	14	72.780	-17.807	1030.3	-7.6
135	15	72.700	-17.652	1025.7	-7.9
136	16	72.607	-17.522	1026.6	-6.7
137	17	72.525	-17.419	1025.8	-6.1
138	18	72.444	-17.349	1026.3	-6.4
139	19	72.249	-17.749	1025.5	-5.6
140	20	72.156	-17.877	1025.7	-3.4
141	21	72.075	-18.007	1023.3	-2.1
142	22	71.994	-18.133	1020.6	-.4
143	23	71.904	-18.254	1018.6	-1.6
144	24	71.827	-18.257	1010.5	-2.6
145	25	71.718	-18.341	1015.0	-3.0
146	26	71.571	-18.479	1019.6	-4.5
147	27	71.461	-18.574	1018.9	-4.2
148	28	71.370	-18.665	1018.7	-3.0
149	29	71.240	-18.810	1019.7	-3.8
150	30	71.092	-18.859	1017.2	-2.4
151	31	70.993	-18.786	1020.7	-2.6

BUOY(3800) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1			1017.5	-3.6
153	2	70.774	-19.074	1023.2	-3.2
154	3	70.624	-19.420	1018.4	-2.9
155	4	70.407	-19.629	1021.8	-2.4
156	5	70.327	-19.285	1021.7	-.7
157	6	70.215	-19.172	1020.6	.4
158	7	70.072	-19.426	1034.0	.3
159	8	69.994	-19.618	1032.9	.1
160	9	69.949	-19.632	1029.3	1.2
161	10	69.816	-19.926	1034.8	.8
162	11	69.707	-20.135	1031.5	.8
163	12	69.601	-20.263	1029.6	.8
164	13	69.493	-20.429	1026.5	.7
165	14	69.347	-20.565		
166	15				
167	16				
168	17				
169	18				
170	19				
171	20				
172	21				
173	22				
174	23				
175	24				
176	25				
177	26				
178	27				
179	28				
180	29				
181	30				

BUOY(3801) JAN. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1	84.438*	-64.968	1030.3	-25.1
2	2	84.438	-65.069	1028.3	-26.6
3	3	84.455	-65.380	1023.3	-24.3
4	4	84.455	-65.413	1021.6	-22.0
5	5	84.446	-65.439	1025.6	-22.1
6	6	84.448	-65.534	1026.3	-22.6
7	7	84.445	-65.599	1019.3	-26.8
8	8	84.429	-65.724	1010.1	-28.4
9	9	84.408	-65.146	1018.3	-27.2
10	10				
11	11				
12	12				
13	13				
14	14				
15	15				
16	16				
17	17				
18	18				
19	19				
20	20				
21	21				
22	22				
23	23				
24	24				
25	25				
26	26				
27	27				
28	28				
29	29				
30	30				
31	31				

BUOY(3801) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1				
153	2				
154	3				
155	4				
156	5				
157	6			1026.3*	-4.4*
158	7				
159	8				
160	9				
161	10				
162	11				
163	12				
164	13				
165	14	84.106	-65.982	1020.5	-2.1
166	15	84.108	-65.841	1017.5	-.9
167	16	84.101	-65.849	1020.6	.0
168	17	84.095	-65.840	1025.1	.0
169	18	84.079	-65.967	1028.2	.1
170	19	84.064	-66.339	1024.1	-.1
171	20	84.061	-66.414	1022.9	-.8
172	21	84.047	-66.305	1019.8	-.4
173	22	84.042	-66.287	1018.5	.1
174	23	84.038	-66.262	1020.3	.7
175	24	84.037	-66.224	1018.2	.8
176	25	84.045	-66.304	1014.7	.7
177	26	84.042	-66.207	1010.8	1.3
178	27	84.041	-65.852	1004.4	1.4
179	28	84.044	-65.628	1005.6	1.6
180	29	84.048	-65.425	1007.8	1.6
181	30	84.047*	-64.448	999.8*	1.0*

BUOY(3801) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	84.028*	-63.921	1015.1*	.5*
183	2	84.038	-63.888	1006.2	1.0
184	3	84.019	-64.032	1019.6	1.3
185	4	84.014	-64.024	1019.1	2.1
186	5	84.013	-64.040	1013.0	3.2
187	6	84.014	-63.966	1007.1	2.9
188	7	84.008	-63.941	1011.4	2.5
189	8	83.998	-63.904	1013.9	4.4
190	9			1017.1*	2.3*
191	10				
192	11				
193	12				
194	13				
195	14				
196	15				
197	16				
198	17				
199	18				
200	19				
201	20				
202	21				
203	22				
204	23				
205	24				
206	25				
207	26				
208	27				
209	28				
210	29				
211	30				
212	31				

BUOY(3802) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1				
92	2				
93	3				
94	4				
95	5				
96	6				
97	7				
98	8	73.160*	-150.142		
99	9	73.168	-150.248		
100	10	73.211	-150.643		
101	11				
102	12	73.191*	-151.083		
103	13			1025.8*	-23.4*
104	14	73.141*	-151.039	1024.2	-23.8
105	15			1022.4	-24.0
106	16	73.135*	-151.012	1021.3	-24.0
107	17			1021.7	-23.5
108	18	73.144*	-151.016	1022.0	-21.5
109	19	73.139*	-151.109	1019.0	-20.5
110	20	73.151*	-151.005	1013.4	-19.3
111	21			1003.6	-16.5
112	22	73.147*	-150.603	1012.4	-16.6
113	23	73.103*	-150.437	1021.1	-18.6
114	24	73.114	-150.505	1023.7	-18.8
115	25	73.106*	-150.471	1022.7	-18.4
116	26			1016.6	-19.3
117	27	73.088	-150.938	1012.7	-18.2
118	28	73.094	-151.229	1007.7	-14.7
119	29	73.131	-151.584	1004.9	-10.2
120	30	73.144	-151.722	1014.6	-6.7

BUOY(3802) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1	73.155	-151.893	1018.6	-5.4
122	2	73.216	-152.247	1022.5	-8.6
123	3	73.242	-152.701	1023.3	-10.3
124	4	73.245	-152.929	1027.5	-11.4
125	5	73.242	-152.977	1026.5	-10.8
126	6	73.228	-152.948	1029.0	-11.5
127	7	73.182	-153.026	1030.0	-11.8
128	8	73.152	-153.204	1034.0	-10.3
129	9	73.169	-153.578	1029.3	-11.8
130	10	73.197	-153.980	1022.7	-11.8
131	11	73.239	-154.386	1023.5	-10.3
132	12	73.286	-154.835	1024.0	-9.7
133	13	73.303	-155.064	1026.6	-9.5
134	14	73.306	-155.111	1030.1	-8.8
135	15	73.304	-155.135	1033.6	-7.9
136	16	73.291	-155.280	1034.2	-8.5
137	17	73.267	-155.362	1033.0	-7.0
138	18	73.232	-155.465	1027.5	-8.5
139	19	73.185	-155.702	1016.3	-6.2
140	20	73.130	-155.925	1009.8	-3.1
141	21	73.044	-156.069	1010.8	-4.1
142	22	72.978	-156.148	1017.0	-3.8
143	23	72.954	-156.232	1019.3	-2.4
144	24	72.949	-156.467	1016.0	-5.3
145	25	72.928	-156.753	1018.6	-6.6
146	26	72.893	-156.840	1024.7	-5.3
147	27	72.861	-156.940	1028.2	-6.2
148	28	72.901	-157.300	1018.4	-5.9
149	29	72.985	-157.433	1016.8	-1.0
150	30	73.041	-157.377	1015.1	2.6
151	31	73.075	-157.328	1019.8	2.5

BUOY(3802) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	73.074	-157.351	1025.2	1.6
153	2	73.090	-157.577	1019.5	.1
154	3	73.103	-157.915	1017.8	.7
155	4	73.145	-158.163	1019.2	.9
156	5	73.233	-158.574	1017.7	-.7
157	6	73.343	-159.096	1011.0	-2.0
158	7	73.466	-159.486	1012.8	.8
159	8	73.519	-159.578	1020.9	3.7
160	9	73.580	-159.695	1023.9	4.6
161	10	73.615	-159.960	1020.8	3.1
162	11	73.676	-160.405	1019.0	-.5
163	12	73.679	-160.731	1015.0	-.4
164	13	73.682	-160.886	1015.3	1.6
165	14	73.706	-160.885	1019.8	1.6
166	15	73.742	-160.921	1024.2	1.7
167	16	73.795	-161.183	1030.4	1.5
168	17	73.859	-161.491	1034.4	1.6
169	18	73.892	-161.818	1031.7	.4
170	19	73.930	-162.167	1028.4	.4
171	20	73.942	-162.433	1026.0	.5
172	21	73.949	-162.672	1023.4	1.2
173	22	73.985	-162.978	1021.8	1.5
174	23	74.033	-163.138	1023.5	2.1
175	24	74.077	-162.866	1013.6	2.3
176	25	74.109	-162.596	1009.6	1.6
177	26	74.107	-162.322	1013.6	1.2
178	27	74.140	-162.094	1011.6	1.2
179	28	74.172	-162.165	1004.7	1.9
180	29	74.125	-162.367	1008.4	1.3
181	30	74.121*	-162.624	1008.1*	-.1*

BUOY(3803) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1				
92	2				
93	3				
94	4				
95	5				
96	6				
97	7				
98	8	71.978*	-139.732		
99	9	71.991	-139.813		
100	10	72.054*	-140.064		
101	11	72.095	-140.315		
102	12	72.072	-140.459		
103	13	72.062	-140.442	1020.9*	-22.1*
104	14	72.054	-140.429	1018.6	-19.9
105	15	72.039	-140.399	1016.9	-22.4
106	16	72.029	-140.380	1016.8	-22.9
107	17	72.028	-140.375	1018.2	-21.5
108	18	72.026	-140.379	1019.8	-19.9
109	19	72.030	-140.401	1016.9	-18.4
110	20	72.029	-140.395	1010.3	-17.0
111	21	72.039	-140.322	1005.7	-16.9
112	22	72.020	-140.101	1009.9	-14.9
113	23	71.994	-139.968	1014.2	-17.8
114	24	71.997	-139.963	1019.8	-18.3
115	25	71.997	-139.966	1019.2	-16.5
116	26	71.997	-140.122	1009.8	-16.7
117	27	71.993	-140.315	1005.8	-14.1
118	28	72.029	-140.564	1003.4	-9.2
119	29	72.099	-141.054	1002.9	-8.5
120	30	72.125	-141.373	1012.7	-7.7

BUOY(3803) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1	72.156	-141.584	1018.0	-7.1
122	2	72.204	-141.980	1017.9	-10.1
123	3	72.229	-142.390	1020.9	-10.8
124	4	72.224	-142.638	1024.1	-9.8
125	5	72.217	-142.681	1025.3	-5.6
126	6	72.204	-142.654	1022.0	-8.9
127	7	72.171	-142.592	1020.2	-11.3
128	8	72.130	-142.657	1027.1	-9.2
129	9	72.112	-142.898	1026.6	-10.7
130	10	72.139	-143.268	1019.8	-11.3
131	11	72.163	-143.658	1020.7	-10.1
132	12	72.214	-144.111	1020.1	-9.1
133	13	72.227	-144.380	1022.8	-8.9
134	14	72.222	-144.433	1027.5	-8.8
135	15	72.223	-144.451	1030.5	-8.2
136	16	72.227	-144.582	1030.7	-7.0
137	17	72.217	-144.655	1026.9	-5.8
138	18	72.196	-144.814	1019.9	-3.9
139	19	72.216	-145.172	1008.4	-2.2
140	20	72.229	-145.409	1001.8	-.7
141	21	72.184	-145.233	1006.1	-3.3
142	22	72.175	-145.132	1013.4	-4.2
143	23	72.171	-145.147	1015.9	-3.7
144	24	72.173	-145.249	1011.1	-4.0
145	25	72.177	-145.410	1012.7	-2.3
146	26	72.164	-145.413	1020.4	-3.6
147	27			1026.2	-5.9
148	28	72.194	-145.604	1020.2	-6.2
149	29	72.248	-145.884	1019.7	-2.3
150	30	72.293	-145.900	1016.3	2.0
151	31	72.296	-145.794	1020.4	3.0

BUOY(3803) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	72.275	-145.682	1021.2	2.2
153	2	72.262	-145.775	1015.9	2.9
154	3	72.300	-146.058	1014.8	1.8
155	4	72.363	-146.337	1021.0	.3
156	5	72.446	-146.687	1019.2	-2.0
157	6	72.580	-147.245	1014.7	-1.7
158	7	72.716	-147.748	1014.0	1.1
159	8	72.783	-148.018	1017.8	2.2
160	9	72.774	-148.203	1020.9	2.5
161	10	72.853	-148.564	1019.4	.3
162	11	72.896	-148.981	1015.2	-.5
163	12	72.893	-149.297	1010.1	.8
164	13	72.879	-149.497	1012.7	2.1
165	14	72.856	-149.582	1019.5	1.8
166	15	72.865	-149.681	1024.2	1.3
167	16	72.902	-149.937	1030.2	1.4
168	17	72.907	-150.311	1031.0	1.4
169	18	72.899	-150.677	1028.9	.9
170	19	72.908*	-151.055	1024.8	.9
171	20	72.898	-151.374	1022.1	.5
172	21	72.891	-151.715	1020.3	1.2
173	22	72.930	-152.094	1021.0	1.5
174	23	72.978	-152.348	1022.6	2.8
175	24	72.978	-152.225	1018.8	3.8
176	25	73.003	-152.006	1010.7	3.7
177	26	72.996	-151.835	1014.5	2.4
178	27	72.997	-151.801	1010.2	4.0
179	28	73.017	-151.977	999.9	3.1
180	29	72.967	-152.256	1001.8	2.1
181	30			1005.2*	1.4*

BUOY(3803) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1			1007.4*	1.9*
183	2			1001.9	2.0
184	3	73.079	-153.043	1007.6	3.9
185	4	73.104	-153.081	1014.4	4.8
186	5	73.103	-153.255	1015.2	4.5
187	6	73.062	-153.703	1014.3	2.2
188	7	73.056	-154.138	1016.8	1.0
189	8	73.031	-154.355	1020.0	1.4
190	9	73.030	-154.642	1022.0	2.6
191	10	73.077	-155.011	1021.9	3.3
192	11	73.135	-155.334	1022.8	3.6
193	12	73.176	-155.661	1022.3	3.3
194	13	73.218	-155.921	1017.5	3.3
195	14	73.244	-156.224	1013.9	2.9
196	15	73.231	-156.499	1011.1	3.0
197	16	73.206	-156.681	1012.9	3.8
198	17	73.179	-156.901	1015.3	3.5
199	18	73.154	-156.926	1014.1	3.3
200	19	73.113	-156.908	1012.3	1.8
201	20	73.063	-156.675	1005.0	2.3
202	21	73.065	-156.874	1002.0	2.1
203	22	73.034	-157.230	1006.5	.9
204	23	72.995	-157.163	1008.8	1.6
205	24	72.999	-157.229	1002.2	1.7
206	25	73.032	-157.014	1009.2	1.5
207	26	73.100	-156.678	1013.6	1.4
208	27	73.106	-156.633	1015.4	1.6
209	28	73.034	-156.256	1015.9	1.0
210	29	73.002	-156.137	1014.4	1.5
211	30	73.048	-156.235	1016.6	1.0
212	31	73.113	-156.328	1017.6	1.1

BUOY(3803) AUG. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
213	1	73.107	-156.099	1013.0	1.0
214	2	73.058	-155.837	1008.2	.8
215	3	72.929	-155.733	1013.2	.6
216	4	72.873	-155.714	1013.7	.4
217	5	72.762	-155.626	1017.7	.6
218	6	72.710	-155.412	1018.9	.9
219	7	72.693	-155.364	1020.7	2.5
220	8	72.724	-155.453	1013.7	2.8
221	9	72.703	-155.876	1013.4	1.4
222	10	72.706	-156.196	1007.2	.4
223	11	72.780	-156.232	1002.3	-.2
224	12	72.797	-156.245	1011.5	1.2
225	13	72.861	-156.357	1004.7	1.1
226	14	72.886	-156.329	996.9	.4
227	15	72.955	-155.949	996.8	.5
228	16	72.959	-155.626	1005.4	.2
229	17	72.954	-155.577	1006.1	-.4
230	18	72.915	-155.399	1014.3	-.9
231	19	72.877	-155.354	1015.7	-1.0
232	20	72.783	-155.083	1022.2	-1.2
233	21	72.723	-154.701	1021.2	-.9
234	22	72.652	-154.573	1022.9	-.3
235	23	72.699	-154.631	1023.0	-.3
236	24	72.830	-154.834	1020.2	-.9
237	25	72.972	-155.012	1019.3	.1
238	26	73.052	-155.083	1017.2	-.2
239	27	73.003	-155.094	1020.6	-.7
240	28	73.007	-155.167	1021.3	-.7
241	29	72.986	-155.455	1019.6	-.7
242	30	73.037	-155.864	1014.8	-1.4
243	31	73.027	-156.124	1009.0	-1.6

BUOY(3803) SEPT 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
244	1	73.005	-156.581	1012.5	-1.6
245	2	73.016	-156.978	1013.9	-1.2
246	3	73.092	-157.198	1015.9	-1.2
247	4	73.174	-157.365	1016.4	-1.2
248	5	73.196	-157.839	1010.5	-1.1
249	6	73.197	-158.340	1009.8	-1.3
250	7	73.164	-158.692	1014.0	-1.6
251	8	73.143	-159.071	1016.0	-1.9
252	9	73.204	-159.775	1016.1	-3.0
253	10	73.291	-160.779	1018.6	-3.2
254	11	73.489	-161.938	1021.7	-2.9
255	12	73.692	-162.340	1025.1	-2.9
256	13	73.725	-162.486	1019.8	-2.8
257	14	73.728*	-162.287	1011.4	-2.7
258	15			1005.9	-1.6
259	16	73.879*	-163.163	1001.7	-2.3
260	17			1006.6	-4.0
261	18	73.672	-162.460	1017.1	-4.2
262	19	73.761	-162.178	1021.7	-4.6
263	20	73.844	-162.606	1022.0	-4.8
264	21	73.874	-163.207	1022.7	-5.4
265	22	73.919	-163.932	1016.7	-5.9
266	23	73.982	-164.738	1012.5	-4.3
267	24	74.029	-165.358	1014.8	-3.3
268	25	73.999	-165.843	1016.7	-2.7
269	26	73.962	-166.118	1017.9	-3.0
270	27	73.960	-166.214	1023.6	-4.7
271	28	74.006	-166.208	1029.2	-4.6
272	29	74.133	-166.389	1023.4	-3.5
273	30	74.201	-167.081	1025.8	-5.0

BUOY(3803) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1	74.214	-167.465	1031.[illegible]	-7.6
275	2	74.189	-167.426	1027.7	-6.8
276	3	74.075	-167.389	1021.0	[illegible]
277	4	73.979	-167.390	1013.1	[illegible]
278	5	73.842	-167.519	1010.3	-4.8
279	6	73.734	-167.938	1014.8	-6.9
280	7	73.733	-168.130	1015.7	-7.9
281	8			1017.9	-8.0
282	9	73.725	-168.361	1016.6	-8.3
283	10	73.692	-168.304	1017.5	-7.1
284	11	73.663	-168.330	1017.8	-6.5
285	12	73.648	-168.483	1013.4	-7.2
286	13	73.613	-168.574	1012.8	-8.8
287	14	73.583	-168.579	1023.4	-9.3
288	15	73.563	-168.602	1033.8	-9.1
289	16	73.599	-168.786	1027.2	-9.7
290	17			1024.9	-10.7
291	18	73.746	-170.150	998.2	-9.4
292	19	73.678	-171.027	994.5	-6.3
293	20	73.430	-171.305	1026.3	-10.3
294	21	73.416	-171.452	1033.0	-10.6
295	22	73.252	-171.410	1032.4	-10.1
296	23	73.183	-171.532	1022.2	-11.5
297	24	73.186	-172.143	1008.8	-9.7
298	25	73.013	-172.796	1012.9	-9.7
299	26	72.797	-173.104	1016.8	-11.2
300	27	72.612	-173.181	1019.4	-12.0
301	28	72.497	-173.246	1011.3	-12.1
302	29	72.204	-172.865	988.2	-10.3
303	30	72.019	-173.525	1007.5	-9.6
304	31	71.869	-174.100	1016.4	-10.3

BUOY(3803) NOV. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
305	1	71.707	-174.192	1027.1	-10.1
306	2	71.669	-173.991	1030.7	-10.3
307	3	71.690	-174.366	1028.9	-9.8
308	4	71.748	-174.972	1025.8	-10.1
309	5	71.843	-175.308	1029.8	-10.2
310	6	71.996	-175.347	1034.0	-10.0
311	7	72.088	-175.413	1038.0	-10.5
312	8	72.130	-175.413	1025.9	-10.6
313	9	72.104	-175.580	1021.9	-10.5
314	10	72.090	-175.655	1020.9	-10.4
315	11	72.098	-176.062	1011.3	-9.9
316	12	72.121	-176.927	1011.9	-8.2
317	13	72.137	-177.900	1008.7	-7.3
318	14	72.161	-178.899	1006.5	-8.1
319	15	72.196	-179.370	1006.6	-7.5
320	16	72.284	-179.733	1001.5	-5.2
321	17	72.325	-179.737	1014.4	-9.5
322	18	72.502	179.884	1004.8	-8.6
323	19	72.649	179.245	1002.6	-6.6
324	20	72.700	178.627	1010.4	-6.1
325	21	72.712	177.827	1020.1	-10.5
326	22	72.703	177.262	1024.7	-10.7
327	23	72.683	176.967	1029.1	-9.5
328	24	72.671	176.773	1029.0	-10.8
329	25	72.653	176.713	1028.6	-11.7
330	26	72.608	176.756	1022.0	-14.2
331	27	72.542	176.696	1023.6	-14.7
332	28	72.481	176.626	1028.9	-15.1
333	29	72.459	176.575	1020.7	-15.2
334	30	72.485	176.728	1016.6	-14.3

BUOY(3803) DEC.	82	LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1	72.495	176.818	1017.5	-16.9
336	2	72.502	176.734	1015.2	-18.1
337	3	72.496	176.274	1009.7	-14.9
338	4	72.563	175.864	1008.1	-11.0
339	5	72.596	175.879	1019.4	-10.3
340	6	72.590	175.825	1015.6	-11.0
341	7	72.609	175.695	1002.1	-11.0
342	8	72.665	175.437	994.9	-9.1
343	9	72.668	175.081	992.5	-9.4
344	10	72.758	174.839	1002.6	-6.3
345	11	72.841	174.624	1021.5	-5.6
346	12	72.904	174.373	1019.5	-6.8
347	13	72.994	174.191	1023.9	-10.5
348	14	72.956	173.988	1021.8	-12.8
349	15	72.926	173.977	1023.5	-13.6
350	16	72.926	173.926	1025.8	-14.0
351	17	72.921	173.954	1026.1	-16.1
352	18	72.908	173.907	1017.8	-16.1
353	19	72.942	173.500	1009.5	-13.9
354	20	72.947	173.393	1012.4	-15.4
355	21	72.934	173.361	1016.6	-16.1
356	22	72.922	173.283	1028.0	-15.5
357	23	72.921	173.283	1033.9	-17.7
358	24	72.926	173.320	1031.6	-18.5
359	25	72.921	173.281	1027.1	-18.3
360	26	72.921	173.285	1020.5	-17.6
361	27	72.940	173.197	1018.1	-17.0
362	28	72.953	173.135	1010.4	-18.2
363	29	72.955	173.155	1016.6	-20.5
364	30				
365	31				

BUOY(3804) JAN. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)	BUOY(3804) FEB. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1	83.702*	27.044	1039.6	-22.9	32	1			1013.9	-27.1
2	2	83.684	26.991	1033.1	-25.3	33	2	82.122	20.436	1015.7	-26.8
3	3	83.657	26.974	1033.0	-23.0	34	3	82.101	20.296	1026.2	-27.2
4	4	83.645	27.101	1019.0	-21.1	35	4	82.079	20.283	1033.5	-26.5
5	5	83.601	26.727	1026.9	-21.2	36	5	82.079	20.288	1031.2	-26.5
6	6	83.593	26.386	1032.9	-25.0	37	6	82.111*	20.737	1003.3	-20.2
7	7	83.576	26.255	1028.5	-27.6	38	7	82.051*	21.099	1005.6	-14.9
8	8	83.565	26.107	1016.8	-28.5	39	8			1009.7	-21.1
9	9	83.547	25.990	1006.3	-26.6	40	9	82.033	19.709	1000.4	-22.8
10	10	83.486	25.420	999.7	-23.5	41	10	82.008	19.174	993.9	-22.8
11	11	83.416	25.221	1005.6	-23.4	42	11	81.998	18.376	990.9	-20.5
12	12	83.346*	24.973	1009.1*	-23.5*	43	12	81.979	17.742	988.4	-16.5
13	13					44	13	81.934	17.366	984.9	-14.7
14	14					45	14	81.855	17.423	991.5	-15.4
15	15					46	15	81.779	17.396	1002.5	-17.9
16	16					47	16	81.719	17.580	1011.8	-19.6
17	17			1022.2*	-27.2*	48	17	81.715	17.746	1016.2	-21.3
18	18	83.274	23.232	1007.5	-27.1	49	18	81.708	17.715	1004.1	-21.6
19	19	83.188	23.083	1017.3	-26.2	50	19	81.657	17.495	1007.7	-19.6
20	20	83.096	23.137	1023.4	-25.6	51	20	81.603	17.669	1014.5	-19.9
21	21	83.020	23.134	1032.0	-25.4	52	21	81.586	17.747	1010.3	-22.1
22	22	82.771	23.898	1003.4	-22.1	53	22	81.594*	17.112	1009.1	-24.0
23	23	82.621	23.145	1016.9	-22.1	54	23			1008.9	-25.8
24	24	82.535	22.718	1009.8	-23.5	55	24			1016.1	-25.2
25	25	82.411	22.066	1000.7	-20.4	56	25			1023.6	-24.8
26	26	82.354	21.156	1013.2	-25.7	57	26			1018.5	-26.2
27	27			1003.7	-27.4	58	27			1009.5	-25.8
28	28	82.257	20.574	1001.9	-27.6	59	28	81.573*	14.536	1002.8	-20.1
29	29	82.225	20.460	1001.5	-28.1						
30	30	82.201	20.465	1004.7	-28.3						
31	31	82.171	20.481	1007.6	-28.3						

BUOY(3805) JAN. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1	78.027*	166.082	1016.3	-34.3
2	2	78.024	166.042	1020.9	-34.4
3	3	78.017	165.940	1018.5	-28.8
4	4	77.999	165.730	1007.4	-27.3
5	5	77.998	165.596	1013.3	-32.0
6	6	78.024	165.592	1017.6	-35.9
7	7			1001.3	-27.8
8	8	78.163*	165.993	1009.2	-28.4
9	9	78.250	166.639	1023.5	-32.8
10	10	78.287	167.299	1035.7	-32.6
11	11	78.272	167.406	1051.2	-34.3
12	12	78.228	167.809	1044.7	-29.3
13	13	78.181	168.110	1044.6	-26.0
14	14	78.167	168.311	1046.3	-27.6
15	15	78.166	168.413	1039.9	-33.6
16	16	78.202	168.563	1026.3	-34.6
17	17	78.269	168.747	1012.0	-29.5
18	18	78.299	168.723	1003.5	-30.4
19	19	78.319	168.800	1019.5	-32.2
20	20	78.422	168.504	999.5	-26.9
21	21			988.5	-14.4
22	22	78.814	168.232	1018.3	-18.4
23	23	78.896	167.904	1019.7	-16.5
24	24	78.996	167.623	1018.7	-20.1
25	25	79.038	167.592	1026.4	-19.3
26	26	79.046	167.574	1031.2	-20.9
27	27	79.023	167.608	1037.5	-28.5
28	28	78.990	167.510	1039.7	-30.6
29	29	78.996	167.267	1033.2	-29.5
30	30	79.050	166.931	1023.0	-27.8
31	31	79.127	166.677	1018.6	-25.4

BUOY(3805) FEB. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
32	1	79.176	166.466	1019.2	-23.2
33	2	79.214	166.218	1017.4	-25.1
34	3	79.233	166.010	1014.3	-20.4
35	4			1010.5	-21.5
36	5	79.290	166.322	1022.9	-30.1
37	6	79.347	167.036	1038.4	-31.9
38	7	79.365	167.298	1033.6	-32.3
39	8	79.375	167.222	1025.7	-26.3
40	9	79.384	167.320	1031.6	-26.1
41	10	79.408	167.690	1033.1	-22.8
42	11			1017.6	-22.4
43	12	79.444*	168.263	1002.8	-21.4
44	13	79.372	168.639	1008.4	-25.5
45	14	79.281	168.999	1018.6	-27.8
46	15	79.249	169.405	1014.8	-26.7
47	16	79.246	169.740	1001.9	-25.2
48	17	79.257	169.970	1000.3	-29.4
49	18	79.300*	170.152	1002.1	-25.1
50	19	79.339*	170.304	1004.3	-25.8
51	20	79.365	170.343	1013.2	-29.7
52	21	79.375	170.371	1023.0	-29.6
53	22	79.391	170.365	1033.2	-29.3
54	23	79.411	170.252	1032.5	-29.6
55	24	79.440	169.984	1014.2	-24.8
56	25	79.411	170.190	1032.2	-25.2
57	26	79.424	170.367	1030.3	-28.3
58	27	79.476*	169.913	1012.2	-24.5
59	28	79.494*	169.788	1005.9	-23.7

BUOY(3805) MAR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
60	1	79.471	169.708	1002.4	-21.5
61	2	79.460	169.996	1018.6	-27.2
62	3	79.471	170.337	1025.5	-31.7
63	4	79.484	170.732	1029.0	-32.0
64	5	79.505	170.920	1030.1	-30.2
65	6	79.528	171.170	1030.8	-29.1
66	7	79.517*	171.182	1027.5	-29.4
67	8	79.532*	171.139	1024.5	-29.5
68	9	79.533	171.080	1024.6	-29.8
69	10	79.537	171.013	1029.2	-29.7
70	11	79.523	170.898	1035.2	-30.3
71	12	79.513	170.684	1039.5	-29.5
72	13	79.482	170.452	1042.8	-28.4
73	14	79.462	170.230	1046.8	-26.7
74	15	79.392	170.414	1038.0	-26.2
75	16	79.304*	170.675	1024.9	-21.8
76	17	79.265*	170.692	1020.1	-22.4
77	18	79.225	170.831	1012.8	-24.0
78	19	79.182	171.032	1013.5	-23.3
79	20	79.173	171.181	1013.0	-25.4
80	21	79.166	171.327	1016.2	-27.5
81	22	79.173	171.914	1014.8	-25.3
82	23	79.186	172.228	1026.4	-25.8
83	24	79.211*	172.239	1026.3	-27.5
84	25	79.220*	172.207	1028.7	-28.9
85	26	79.216	172.154	1028.0	-29.0
86	27	79.239	172.052	1022.4	-30.2
87	28	79.292	171.904	1008.4	-26.3
88	29	79.378	171.735	1002.8	-22.0
89	30	79.420	171.683	1014.8	-25.3
90	31	79.424	171.585	1021.8	-28.7

BUOY(3805) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1	79.431	171.590	1028.7	-30.0
92	2	79.441*	171.580	1032.1	-30.1
93	3	79.481*	171.138	1013.6	-23.4
94	4	79.513	170.601	1009.4	-18.2
95	5	79.537	170.353	1021.2	-22.1
96	6	79.562	170.033	1027.7	-25.2
97	7	79.578	169.578	1023.8	-25.1
98	8	79.579	169.168	1023.9	-23.3
99	9			1023.9	-21.7
100	10	79.587*	168.299	1025.9	-22.6
101	11			1032.2	-21.9
102	12	79.551*	168.183	1031.9	-20.9
103	13				
104	14				
105	15				
106	16				
107	17				
108	18				
109	19				
110	20				
111	21				
112	22				
113	23				
114	24				
115	25				
116	26				
117	27				
118	28				
119	29				
120	30				

BUOY(3807) JAN. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1	76.924*	-156.316	1014.5	-18.0
2	2	76.934	-156.386	1019.1	-18.7
3	3	76.962*	-156.516	1024.9	-20.6
4	4	77.001*	-156.623	1017.5	-21.5
5	5	77.001	-156.863	1018.7	-19.0
6	6	76.999	-156.795	1030.8	-20.2
7	7			1024.3	-23.7
8	8	77.137*	-156.549	1021.1	-18.2
9	9	77.098	-156.219	1033.9	-20.2
10	10	77.099	-155.789	1042.0	-25.2
11	11	77.093	-155.659	1043.2	-26.9
12	12	77.019	-155.344	1029.0	-25.1
13	13	76.845	-155.127	1025.3	-19.3
14	14	76.748	-155.176	1039.2	-19.2
15	15	76.722	-155.181	1037.4	-20.9
16	16	76.717	-155.245	1029.0	-23.7
17	17	76.738	-155.268	1024.1	-25.8
18	18	76.842	-155.323	1013.1	-23.2
19	19	76.889	-155.172	1025.0	-23.6
20	20	76.915	-155.191	1039.8	-25.4
21	21	77.187	-155.194	1025.5	-20.8
22	22	77.309	-155.240	1030.2	-18.0
23	23	77.345*	-155.380	1032.3	-14.5
24	24	77.375*	-155.554	1029.9	-16.5
25	25	77.372	-155.649	1030.1	-21.3
26	26	77.346	-155.723	1026.1	-20.9
27	27	77.333	-155.796	1026.6	-21.1
28	28	77.293	-156.062	1031.2	-21.3
29	29	77.270	-156.313	1032.3	-22.9
30	30	77.264	-156.469	1034.0	-25.2
31	31	77.293	-156.580	1036.3	-26.3

BUOY(3807) FEB. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
32	1	77.346	-156.626	1036.5	-25.4
33	2	77.440	-156.812	1030.1	-23.5
34	3	77.485	-157.033	1021.6	-22.4
35	4	77.538	-157.281	1006.4	-19.8
36	5	77.478	-157.080	1021.5	-14.5
37	6			1046.7	-19.6
38	7	77.458*	-156.912	1035.1	-20.2
39	8	77.509	-157.342	1013.9	-16.3
40	9	77.489	-157.653	1027.4	-15.6
41	10	77.445	-157.463	1033.0	-17.9
42	11	77.409	-157.005	1033.4	-17.6
43	12	77.426	-156.483	1002.4	-15.6
44	13	77.342	-156.170	999.9	-15.5
45	14	77.288	-155.951	1002.0	-20.7
46	15	77.275	-155.964	1012.5	-22.8
47	16	77.269	-155.943	1012.2	-26.1
48	17	77.301	-155.932	1007.0	-24.9
49	18	77.317	-155.979	1013.4	-26.2
50	19	77.306	-155.949	1016.1	-28.6
51	20	77.312	-155.954	1019.6	-28.4
52	21	77.312	-155.943	1026.4	-27.3
53	22	77.315	-155.925	1035.2	-26.5
54	23	77.354	-155.991	1042.3	-24.6
55	24	77.419	-155.938	1026.9	-20.3
56	25	77.438	-155.715	1022.4	-15.0
57	26	77.368	-155.462	1033.7	-17.0
58	27	77.452	-155.598	1016.7	-18.2
59	28	77.515	-155.591	1015.2	-17.0

BUOY(3807) MAR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
60	1	77.575	-155.331	997.7	-13.7
61	2	77.488	-154.722	1018.1	-15.6
62	3	77.463	-154.549	1023.3	-20.1
63	4	77.456	-154.534	1030.4	-23.5
64	5	77.440	-154.480	1027.7	-24.5
65	6	77.429	-154.396	1031.1	-23.2
66	7	77.425	-154.403	1028.4	-24.6
67	8	77.429	-154.406	1023.9	-25.6
68	9	77.431	-154.427	1019.1	-25.7
69	10	77.412	-154.565	1021.5	-24.5
70	11	77.349	-154.676	1022.3	-21.4
71	12	77.295	-155.166	1023.6	-19.1
72	13	77.248	-155.372	1024.0	-18.3
73	14	77.184	-155.709	1029.9	-18.7
74	15	77.119	-155.628	1021.2	-19.4
75	16	77.086	-155.542	1012.9	-20.7
76	17	77.088	-155.562	1009.7	-23.5
77	18	77.082	-155.555	1008.6	-25.7
78	19	77.085	-155.510	1006.3	-25.9
79	20	77.085	-155.427	1010.0	-23.9
80	21	77.080	-155.402	1013.6	-24.3
81	22	77.090	-155.407	1016.1	-25.3
82	23	77.089	-155.273	1027.2	-23.7
83	24	77.090	-155.260	1033.3	-24.0
84	25	77.097	-155.285	1028.5	-24.6
85	26	77.086	-155.314	1031.1	-24.2
86	27	77.094	-155.303	1029.7	-25.1
87	28	77.119	-155.359	1025.8	-25.2
88	29	77.159	-155.349	1023.9	-23.8
89	30	77.173	-155.412	1026.1	-22.1
90	31	77.192	-155.437	1022.0	-21.5

BUOY(3807) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1	77.188	-155.416	1025.2	-22.9
92	2	77.179	-155.421	1034.7	-24.2
93	3	77.208	-155.455	1023.7	-23.5
94	4	77.286	-155.905	1008.3	-20.7
95	5	77.275	-156.071	1015.3	-21.6
96	6	77.271	-156.389	1020.9	-22.2
97	7	77.302	-157.150	1012.6	-20.7
98	8	77.292	-157.746	1019.3	-21.1
99	9	77.301	-158.107	1020.9	-21.7
100	10	77.334	-158.604	1018.7	-22.1
101	11	77.328	-158.997	1022.1	-21.4
102	12	77.283	-158.979	1024.5	-21.6
103	13	77.220	-158.855	1022.2	-20.2
104	14	77.179	-158.735	1021.7	-19.7
105	15	77.167	-158.611	1018.8	-20.5
106	16	77.141	-158.579	1016.6	-20.3
107	17	77.101	-158.368	1015.7	-18.6
108	18	77.114	-158.121	1014.6	-17.9
109	19	77.206	-157.920	1012.0	-17.3
110	20	77.305	-157.774	999.5	-16.6
111	21	77.365	-157.583	990.9	-14.7
112	22	77.291	-157.413	1003.4	-14.6
113	23	77.222	-157.348	1016.8	-14.9
114	24	77.201	-157.369	1021.9	-15.8
115	25	77.203	-157.390	1022.8	-16.1
116	26	77.216	-157.523	1021.8	-16.0
117	27	77.206	-157.767	1019.5	-14.8
118	28	77.210	-158.181	1012.7	-13.6
119	29	77.243	-158.584	1009.4	-11.8
120	30	77.297	-158.957	1016.6	-10.9

BUOY(3807) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1	77.323	-159.160	1022.2	-10.2
122	2	77.370	-159.377	1027.3	-8.9
123	3	77.395	-159.658	1030.7	-10.1
124	4	77.399	-159.889	1031.7	-11.8
125	5	77.392	-159.943	1030.8	-12.5
126	6	77.386	-159.992	1030.7	-12.6
127	7	77.357	-160.094	1033.7	-11.9
128	8	77.345	-160.211	1037.1	-11.4
129	9	77.365	-160.347	1032.1	-11.3
130	10	77.398	-160.596	1027.1	-11.1
131	11	77.465	-160.812	1027.4	-10.4
132	12	77.504	-161.147	1026.9	-10.2
133	13	77.530	-161.307	1025.8	-10.3
134	14	77.546	-161.225	1025.6	-9.6
135	15	77.558	-161.061	1031.2	-8.8
136	16	77.565	-161.066	1033.9	-8.4
137	17	77.586	-160.909	1031.4	-8.4
138	18	77.631	-160.667	1027.3	-8.3
139	19	77.671	-160.558	1023.0	-7.6
140	20	77.648	-160.730	1015.9	-6.2
141	21	77.566	-161.027	1011.0	-4.9
142	22	77.467	-161.125	1013.8	-5.3
143	23	77.422	-161.252	1019.4	-6.1
144	24	77.407	-161.442	1018.3	-5.8
145	25	77.392	-161.568	1018.7	-5.3
146	26	77.347	-161.612	1020.5	-5.0
147	27	77.292	-161.569	1025.0	-5.2
148	28	77.314	-161.529	1021.8	-5.7
149	29	77.396	-161.788	1012.8	-4.3
150	30	77.466	-161.744	1008.8	-1.8
151	31	77.458*	-161.634	1016.8	-.4

BUOY(3807) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	77.463*	-161.559	1022.5	-.6
153	2	77.503	-161.454	1022.3	-1.5
154	3	77.539	-161.585	1023.4	-1.1
155	4	77.571	-161.818	1024.1	-1.8
156	5	77.641	-162.049	1023.5	-2.0
157	6	77.724	-162.463	1019.0	-2.9
158	7	77.843	-162.978	1014.3	-1.6
159	8	77.959	-163.144	1017.8	-.3
160	9	78.037	-163.207	1022.2	.3
161	10	78.114	-163.353	1024.9	.5
162	11	78.133*	-163.583	1022.8	-.5
163	12	78.136*	-163.815	1018.1	.1
164	13	78.143	-163.873	1010.0	.4
165	14	78.171	-163.596	1013.8	.2
166	15	78.202	-163.360	1023.6	.2
167	16	78.219	-163.430	1033.8	.9
168	17	78.255	-163.488	1034.8	.5
169	18	78.293	-163.561	1034.2	-.2
170	19	78.328	-163.689	1029.9	.6
171	20	78.348	-163.822	1027.8	1.4
172	21	78.374	-163.922	1025.9	2.0
173	22	78.424	-164.010	1024.6	1.6
174	23	78.473	-164.044	1018.3	1.2
175	24	78.552	-163.743	1000.2	.9
176	25	78.602	-163.324	996.3	1.2
177	26	78.619	-162.933	1001.1	1.4
178	27	78.634	-162.664	1005.3	1.5
179	28	78.665	-162.627	1001.0	2.1
180	29			1005.2	1.0
181	30				

BUOY(3807) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1			1007.5*	.8*
183	2	78.759	-162.608	1016.5	1.2
184	3	78.827	-163.333	1010.4	.8
185	4	78.892	-163.620	1004.9	1.2
186	5	78.902	-163.198	1013.8	1.4
187	6	78.886	-163.075	1022.9	1.9
188	7	78.901*	-163.139	1024.3	4.5
189	8	78.908*	-163.126	1024.2	3.3
190	9	78.926	-163.027	1025.9	2.2
191	10	78.967	-162.971	1026.9	3.6
192	11	79.039	-163.027	1028.2	3.5
193	12	79.118	-162.845	1021.4	3.5
194	13	79.182	-162.538	1016.4	2.4
195	14	79.203	-162.342	1019.1	2.1
196	15	79.207*	-162.095	1015.7	1.7
197	16	79.186*	-162.101	1016.5	2.5
198	17	79.208	-161.665	1006.4	2.1
199	18	79.113	-161.167	1007.9	1.3
200	19	79.059	-160.609	1001.8	1.1
201	20	78.992	-160.321	1000.3	1.0
202	21	78.959	-160.284	1004.5	1.2
203	22	78.897	-160.026	1000.7	1.0
204	23	78.860	-160.044	1001.4	1.5
205	24	78.877	-160.260	1007.6	1.5
206	25	78.886	-160.747	1011.2	1.0
207	26	78.867	-160.971	1010.9	.9
208	27	78.845	-160.612	1006.0	.8
209	28	78.784	-160.533	1010.5	1.2
210	29	78.794	-160.644	1017.2	1.9
211	30	78.852	-160.745	1018.6	.3
212	31	78.904	-160.353	1007.2	.3

BUOY(3807) AUG. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
213	1	78.853	-160.241	1008.2	.9
214	2			997.7	.6
215	3	78.729*	-159.881	1009.2	.6
216	4	78.706	-159.837	1008.4	.8
217	5	78.710	-159.862	1010.6	.8
218	6	78.694	-159.662	1009.9	1.0
219	7	78.670	-159.380	1013.7	1.5
220	8	78.642	-159.400	1015.8	1.5
221	9	78.566	-159.397	1015.5	.0
222	10			1000.9	-.2
223	11	78.718*	-159.210	1010.2	-.5
224	12	78.820	-159.682	1013.1	-.7
225	13	78.904	-159.881	1007.3	.7
226	14			989.5	.8
227	15			983.5	.1
228	16	79.244*	-160.359	985.3	-.1
229	17	79.304	-159.860	993.9	-.7
230	18	79.302	-159.486	997.6	-1.3
231	19	79.280	-158.917	999.6	-1.8
232	20	79.178*	-158.500	1010.2	-2.2
233	21	79.162*	-158.596	1013.7	-2.6
234	22	79.192	-158.754	1022.2	-2.1
235	23	79.253	-158.893	1020.8	-2.1
236	24	79.308	-158.878	1020.1	-1.1
237	25	79.442*	-158.520	1012.3	-.8
238	26	79.483*	-157.993	1010.6	.1
239	27	79.458	-157.721	1016.2	.1
240	28	79.467	-157.625	1017.9	.4
241	29	79.558	-156.889	1015.0	-.2
242	30	79.598	-156.286	1012.1	-1.2
243	31	79.574	-155.868	1011.7	-2.0

BUOY(3807) SEPT 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
244	1	79.611	-155.282	1011.0	-1.6
245	2	79.602	-155.207	1018.8	-1.8
246	3	79.675	-155.101	1019.0	-1.7
247	4	79.757*	-155.077	1018.8	-2.2
248	5	79.828*	-155.093	1018.4	-3.0
249	6	79.890*	-155.022	1013.3	-4.4
250	7	79.874*	-154.974	1015.3	-5.7
251	8	79.863	-154.855	1015.2	-5.2
252	9	79.891	-154.688	1016.6	-3.9
253	10	79.904	-154.129	1015.2	-2.5
254	11	79.863	-153.607	1018.6	-1.6
255	12	79.844	-153.470	1021.4	-1.4
256	13	79.842	-152.976	1013.0	-3.0
257	14	79.818*	-152.382	1003.4	-4.2
258	15	79.761*	-151.950	1002.7	-5.1
259	16	79.723	-151.776	1000.8	-7.8
260	17	79.734	-151.815	997.6	-8.8
261	18	79.686	-151.874	1006.1	-11.5
262	19	79.589*	-151.594	1012.2	-8.9
263	20	79.545*	-151.388	1020.7	-7.0
264	21	79.487	-150.383	1013.3	-5.7
265	22	79.385	-149.976	1017.9	-3.7
266	23	79.382	-150.033	1023.5	-6.0
267	24	79.409*	-150.039	1023.7	-6.5
268	25	79.449*	-150.039	1021.6	-7.8
269	26	79.473	-149.966	1020.9	-10.9
270	27	79.493	-149.995	1024.2	-12.6
271	28	79.521*	-149.956	1030.3	-12.1
272	29	79.551*	-149.803	1030.2	-12.0
273	30	79.561	-149.710	1032.0	-12.6

BUOY(3807) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1	79.515	-149.747	1027.9	-10.5
275	2	79.430	-149.527	1017.6	-12.1
276	3	79.319	-149.435	1008.0	-12.0
277	4	79.222	-149.399	1003.1	-11.0
278	5	79.204	-149.716	1011.2	-12.0
279	6	79.226	-150.030	1016.2	-12.8
280	7	79.223	-150.168	1016.4	-15.5
281	8	79.208*	-150.162	1014.8	-19.0
282	9	79.232*	-150.133	1013.5	-20.5
283	10	79.264*	-150.106	1014.6	-21.8
284	11	79.278	-150.117	1018.2	-19.6
285	12	79.251	-150.096	1011.4	-15.1
286	13	79.185	-150.340	1004.2	-13.2
287	14	79.099	-150.328	1011.7	-14.5
288	15	79.030	-149.993	1019.1	-15.5
289	16	78.929	-149.655	1023.1	-17.3
290	17	78.862	-149.513	1023.5	-19.2
291	18	78.827	-149.451	1022.6	-20.0
292	19	78.864	-149.603	1005.6	-21.0
293	20	78.838	-150.592	1009.6	-18.5
294	21	78.757	-150.667	1019.8	-19.2
295	22	78.703	-150.663	1024.1	-14.0
296	23	78.648	-150.488	1023.3	-15.2
297	24	78.655	-150.412	1016.6	-16.1
298	25	78.658	-150.792	1009.5	-17.7
299	26	78.600	-151.621	1009.0	-16.5
300	27	78.558*	-151.981	1013.0	-17.4
301	28	78.496*	-152.269	996.0	-16.2
302	29	78.473	-153.189	999.0	-14.5
303	30	78.457	-153.727	1011.8	-16.9
304	31	78.383	-154.074	1013.1	-21.3

BUOY(3808) JAN. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1			1027.2	-26.6
2	2			1029.0	-24.0
3	3	89.081*	-176.839	1028.5	-25.2
4	4	89.092	-176.176	1027.9	-29.7
5	5	89.091	-175.890	1033.8	-32.7
6	6	89.098	-177.118	1030.5	-34.0
7	7	89.125	-178.103	1023.0	-31.1
8	8	89.199	178.520	1004.2	-29.6
9	9			1005.3	-30.0
10	10			1017.1	-35.9
11	11	89.280	-179.848	1013.2	-30.6
12	12	89.244	-175.921	1009.9	-27.0
13	13	89.138	-171.869	1022.6	-25.3
14	14	89.112	-167.804	1018.8	-27.5
15	15	89.083*	-163.267	1016.5	-31.3
16	16	89.112*	-161.181	1015.6	-33.1
17	17	89.186	-160.985	1010.8	-33.0
18	18			1009.2	-33.1
19	19			1012.3	-29.8
20	20	89.386*	-160.505	1026.6	-32.1
21	21	89.534*	-159.646	1010.3	-28.9
22	22	89.721	-134.722	1010.8	-21.1
23	23	89.725	-117.679	1033.4	-25.1
24	24	89.754	-94.132	1021.3	-20.9
25	25			1019.7	-22.8
26	26			1022.5	-25.1
27	27			1016.7	-26.2
28	28			1014.5	-30.9
29	29			1011.0	-31.2
30	30			1010.4	-27.5
31	31			1016.1	-28.2

BUOY(3808) FEB. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
32	1			1014.2	-30.5
33	2	89.550	-67.994	1023.9	-30.8
34	3	89.553	-63.044	1022.4	-32.0
35	4	89.534	-58.793	1028.1	-34.2
36	5			1018.9	-32.6
37	6	89.555*	-53.106	1010.9	-30.1
38	7			1022.3	-31.3
39	8			1013.6	-33.6
40	9			1010.6	-35.6
41	10			1002.2	-35.6
42	11	89.494*	-52.299	1007.5	-33.2
43	12	89.498	-52.226	1003.4	-29.7
44	13	89.494	-52.367	1000.7	-29.4
45	14	89.493	-52.090	999.1	-31.4
46	15	89.469	-48.592	994.8	-28.6
47	16	89.425	-43.363	993.7	-28.2
48	17	89.389*	-37.468	1003.7	-29.2
49	18	89.321*	-34.320	1003.5	-31.7
50	19	89.246	-28.282	1003.9	-31.5
51	20	89.182	-26.496	1010.0	-31.4
52	21	89.181	-26.326	1015.1	-35.1
53	22	89.178	-26.564	1021.3	-36.7
54	23	89.171	-27.060	1024.0	-35.8
55	24	89.162	-27.263	1029.7	-34.9
56	25	89.151	-26.428	1025.4	-31.9
57	26			1023.0	-32.7
58	27	89.136	-26.616	1023.6	-34.1
59	28	89.126	-25.357	1017.3	-35.6

BUOY(3808) MAR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
60	1	89.120*	-23.616	1003.8	-31.6
61	2	89.127*	-23.271	998.8	-29.1
62	3			1000.3	-32.8
63	4	89.022	-27.272	998.2	-32.0
64	5	88.917	-28.567	995.1	-26.2
65	6	88.863*	-29.205	1002.4	-27.9
66	7			1007.5	-34.7
67	8			1014.3	-37.6
68	9	88.860	-29.629	1017.0	-35.5
69	10	88.860	-30.852	1018.4	-31.5
70	11	88.849	-35.178	1024.4	-29.7
71	12	88.829	-38.257	1035.3	-30.5
72	13	88.814	-42.097	1032.5	-30.8
73	14	88.794	-47.242	1018.4	-25.3
74	15			1023.5	-22.1
75	16	88.865	-51.032	1022.2	-22.9
76	17			998.8	-20.7
77	18	88.888*	-52.331	1004.0	-22.3
78	19	88.916	-50.293	1010.7	-29.7
79	20			1006.3	-29.2
80	21	88.882	-45.930	1003.6	-29.2
81	22	88.918	-43.226	1002.3	-30.9
82	23	88.925	-43.237	1008.2	-32.5
83	24	88.903	-44.038	1015.1	-33.3
84	25	88.874	-44.930	1013.6	-30.7
85	26	88.836	-45.910	1006.1	-27.8
86	27	88.813	-45.115	1004.8	-29.5
87	28	88.805	-42.458	1017.4	-33.0
88	29			1018.4	-34.6
89	30	88.778	-41.845	1014.4	-32.6
90	31	88.762	-42.013	1008.2	-29.7

BUOY(3808) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1	88.747	-41.991	1014.9	-29.7
92	2	88.732	-41.787	1018.4	-30.6
93	3	88.709	-41.406	1018.8	-30.9
94	4	88.706	-41.228	1017.4	-30.7
95	5	88.702	-41.220	1020.6	-29.7
96	6			1033.1	-28.4
97	7	88.683	-40.632	1030.0	-28.5
98	8	88.670	-40.097	1020.7	-27.6
99	9	88.661	-39.850	1024.3	-28.5
100	10	88.662	-39.759	1025.1	-29.3
101	11	88.660	-39.705	1018.9	-28.4
102	12	88.662	-39.717	1017.4	-28.3
103	13	88.660	-39.818	1016.6	-28.5
104	14	88.659	-39.813	1016.9	-27.9
105	15	88.661	-39.909	1016.0	-26.8
106	16	88.663	-40.017	1012.5	-25.2
107	17	88.670	-40.616	1010.9	-23.2
108	18	88.662	-39.855	1006.6	-22.9
109	19	88.660	-38.911	1007.3	-23.5
110	20	88.650	-36.085	1006.3	-24.3
111	21	88.655*	-33.551	1014.2	-23.8
112	22	88.666*	-33.851	1014.0	-23.3
113	23	88.640*	-36.208	1007.9	-21.0
114	24	88.623*	-38.434	1006.6	-20.1
115	25	88.610	-38.494	1012.4	-20.1
116	26			1013.8	-19.9
117	27	88.581*	-37.841	1012.5	-18.7
118	28	88.549	-37.351	1018.6	-18.4
119	29	88.509	-36.957	1023.4	-18.1
120	30	88.442	-35.969	1024.3	-17.1

BUOY(3808) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1			1031.2	-15.8
122	2	88.395	-34.298	1031.6	-15.7
123	3	88.387	-33.774	1034.0	-14.1
124	4	88.386	-33.597	1031.0	-13.5
125	5	88.389	-33.891	1030.2	-14.3
126	6	88.388	-34.188	1030.4	-13.1
127	7	88.391	-34.248	1027.0	-11.8
128	8	88.382	-35.191	1022.2	-11.4
129	9	88.367	-35.714	1029.1	-12.3
130	10	88.361	-36.103	1026.8	-13.1
131	11	88.358	-36.266	1023.4	-12.1
132	12	88.366	-36.547	1029.1	-7.4
133	13	88.374	-36.502	1029.7	-7.3
134	14	88.381	-36.368	1029.1	-8.5
135	15	88.374	-36.474	1027.5	-8.8
136	16	88.361	-36.371	1027.9	-9.6
137	17	88.353	-35.646	1022.8	-9.6
138	18	88.313	-33.825	1017.2	-10.2
139	19	88.258	-32.067	1019.9	-10.2
140	20	88.187	-29.644	1016.1	-10.1
141	21	88.115	-28.928	1016.1	-9.9
142	22	88.066	-27.770	1016.6	-9.9
143	23	88.051	-27.138	1014.7	-9.4
144	24	88.034	-27.339	1015.1	-8.0
145	25	87.993	-27.416	1015.6	-7.8
146	26	87.966	-27.594	1016.8	-7.8
147	27	87.954	-27.757	1018.4	-7.4
148	28	87.943	-27.903	1023.0	-7.3
149	29	87.953	-28.506	1021.4	-6.6
150	30	87.985	-29.787	1018.0	-6.8
151	31	87.991	-30.573	1018.3	-6.5

BUOY(3808) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1			1021.1	-6.5
153	2	87.949	-29.529	1020.9	-5.6
154	3	87.908	-28.670	1017.8	-3.5
155	4	87.875	-28.430	1016.1	-2.1
156	5	87.830	-29.048	1018.9	-2.8
157	6	87.790*	-29.474	1026.4	-4.1
158	7			1031.9	-2.6
159	8	87.743	-29.041	1030.0	-2.8
160	9	87.708	-28.219	1032.8	-3.1
161	10	87.675	-27.804	1033.8	-2.5
162	11	87.674	-27.771	1032.0	.9
163	12	87.672	-27.759	1027.1	1.4
164	13	87.670	-27.419	1022.6	.4
165	14	87.655	-26.178	1019.1	.3
166	15	87.652	-25.622	1009.8	.4
167	16	87.574	-25.379	1012.3	-.2
168	17	87.500	-25.691	1021.3	1.0
169	18	87.465	-26.332	1025.3	1.6
170	19	87.438	-27.020	1024.3	1.2
171	20	87.407	-27.231	1018.9	1.6
172	21	87.404	-27.291	1016.3	1.5
173	22	87.397	-27.346	1017.3	1.7
174	23	87.394	-27.325	1018.3	2.0
175	24	87.392	-26.923	1018.0	2.5
176	25	87.393	-26.790	1015.9	3.3
177	26	87.385	-26.599	1004.4	2.0
178	27	87.390	-25.572	1001.3	2.4
179	28	87.380	-24.525	1000.5	2.5
180	29	87.362	-22.997	1003.1	2.4
181	30			989.1*	2.1*

BUOY(3808) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	87.408*	-21.515	1003.2*	3.0*
183	2	87.342	-21.650	1008.3	2.9
184	3	87.281	-22.384	1013.0	2.2
185	4	87.182	-22.873	1012.2	2.2
186	5	87.124	-22.621	1010.6	3.2
187	6	87.118	-22.144	1007.2	3.4
188	7	87.108	-21.927	1008.1	5.2
189	8	87.053	-20.887	1008.6	3.1
190	9	87.011	-20.281	1014.1	3.3
191	10	86.961	-19.723	1016.6	3.0
192	11	86.917	-19.446	1017.9	2.9
193	12	86.852	-19.008	1008.1	3.0
194	13	86.755	-18.522	1002.7	2.2
195	14	86.649	-17.714	998.5	1.9
196	15	86.569	-16.921	991.9	2.0
197	16	86.498	-16.141	999.6	2.3
198	17	86.411	-15.302	999.3	1.1
199	18	86.368	-13.052	994.7	1.7
200	19	86.368	-11.953	1000.8	4.2
201	20	86.407	-11.623	1001.2	3.4
202	21	86.481	-11.206	1003.7	2.2
203	22	86.521	-10.632	1007.5	3.4
204	23	86.564	-10.247	1011.5	2.5
205	24	86.559	-11.086	1003.1	2.1
206	25	86.577	-11.375	998.9	2.0
207	26	86.637*	-11.265	999.6	2.2
208	27	86.670	-10.886	1008.4	2.6
209	28	86.666	-10.950	1011.1	2.4
210	29	86.631	-12.328	1002.8	1.6
211	30	86.610	-12.946	998.3	2.1
212	31	86.572	-12.638	997.9	2.3

BUOY(3808) AUG. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
213	1	86.532	-11.971	1004.9	1.7
214	2	86.536	-10.985	1003.7	2.6
215	3	86.538	-10.700	1012.1	1.8
216	4	86.477	-10.166	1017.6	2.0
217	5			1019.0	2.6
218	6	86.447	-8.823	1012.8	2.3
219	7	86.451	-7.712	1009.9	1.1
220	8	86.518	-6.893	1010.5	1.8
221	9	86.582	-6.586	1012.1	1.9
222	10	86.648	-6.417	1016.4	.6
223	11	86.720	-6.607	1017.8	.8
224	12	86.756	-7.128	1017.8	1.6
225	13	86.794	-7.760	1023.2	.8
226	14	86.844	-7.979	1023.5	.9
227	15	86.917	-7.759	1015.1	2.5
228	16	86.950	-7.229	1013.9	1.1
229	17	86.934	-6.858	1014.8	-.6
230	18	86.907	-6.323	1015.6	-.8
231	19	86.895	-5.262	1008.9	1.5
232	20	86.961	-4.525	1004.7	.0
233	21	86.964	-4.875	1010.1	.1
234	22	86.932	-5.543	1011.1	.5
235	23	86.874	-6.042	1007.5	-.3
236	24	86.855	-6.524	1010.7	-.4
237	25	86.810	-6.503	1007.1	-1.1
238	26	86.819	-6.141	1005.7	-1.1
239	27	86.898	-5.584	1009.0	-2.5
240	28	86.887	-6.983	1010.2	-1.8
241	29	86.847	-8.734	1011.9	-2.0
242	30			1003.3	-2.7
243	31	86.772	-7.955	999.3	-5.7

BUOY(3808) SEPT 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
244	1	86.767	-7.286	1006.0	-3.8
245	2	86.744	-6.316	1012.9	-4.5
246	3	86.725	-5.338	1012.6	-4.8
247	4	86.687	-4.384	1011.9	-2.7
248	5	86.661	-4.261	1011.6	-2.3
249	6	86.607	-3.929	999.7	-2.4
250	7	86.552	-3.648	996.5	-2.9
251	8	86.499	-3.402	1000.2	-5.6
252	9	86.441	-3.012	995.2	-4.4
253	10	86.406*	-2.531	995.2	-7.1
254	11	86.452*	-2.945	997.2	-8.2
255	12	86.480	-3.450	1002.0	-7.0
256	13	86.347	-3.062	979.9	-6.8
257	14	86.297	-1.642	982.8	-4.6
258	15	86.318	-.356	998.7	-4.8
259	16	86.334	-.155	1000.0	-5.3
260	17	86.341	.062	1004.3	-5.3
261	18	86.326	.223	1001.3	-6.1
262	19	86.313	.071	1001.1	-4.2
263	20	86.308	-.034	1003.0	-3.2
264	21	86.295	.248	1006.2	-4.0
265	22	86.288	.327	1012.9	-5.6
266	23	86.284	.168	1014.9	-6.7
267	24	86.202	-.052	1011.4	-8.2
268	25	86.111	1.217	1000.7	-8.7
269	26	86.106	1.928	1003.6	-10.6
270	27	86.081	1.878	1017.3	-10.3
271	28	86.012	2.079	1026.2	-10.6
272	29	85.961	2.414	1026.4	-11.9
273	30	85.995	2.346	1021.3	-10.9

BUOY(3808) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1	86.007	2.287	1011.9	-6.4
275	2	86.116	2.965	1012.7	-2.4
276	3	86.210	3.589	1009.0	-.9
277	4	86.259	2.966	1007.0	-2.0
278	5	86.206	2.335	1008.8	-3.7
279	6	86.121	2.580	1010.8	-6.0
280	7	86.118	2.858	1008.4	-9.3
281	8	86.083	2.633	1006.2	-9.0
282	9	85.968	3.299	1003.9	-11.1
283	10	85.785	3.930	1002.1	-10.8
284	11	85.613	4.083	1008.0	-10.2
285	12	85.587	3.861	1016.9	-8.6
286	13	85.577	3.882	1019.0	-8.1
287	14	85.575	3.982	1019.6	-7.8
288	15	85.587	4.040	1024.3	-9.4
289	16	85.598	3.994	1029.8	-12.6
290	17	85.641	3.854	1029.0	-12.6
291	18	85.709	3.901	1027.0	-13.2
292	19	85.774	3.826	1018.8	-13.3
293	20	85.855	3.747	1008.2	-11.7
294	21	85.901	3.912	1007.7	-11.3
295	22	85.848	4.163	1013.3	-14.6
296	23	85.861	4.382	1011.9	-18.1
297	24	85.889	4.179	1006.2	-13.6
298	25	85.821	3.965	1012.6	-12.2
299	26	85.766	3.971	1016.4	-16.0
300	27	85.692	4.563	1020.9	-18.1
301	28	85.629	4.874	1024.9	-19.2
302	29	85.599	4.777	1024.7	-20.0
303	30	85.614	4.481	1023.9	-19.5
304	31	85.625	4.146	1021.5	-18.1

BUOY(3808) NOV. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
305	1	85.626	3.724	1013.0	-17.8
306	2	85.581*	2.950	1011.9	-18.3
307	3	85.555*	2.409	1020.3	-20.4
308	4	85.539	2.208	1016.4	-21.0
309	5	85.532	2.182	1013.6	-21.5
310	6	85.572	1.830	1012.1	-17.8
311	7	85.613	.642	1008.2	-18.6
312	8	85.576	-.776	999.4	-19.6
313	9	85.566	-1.514	993.5	-16.3
314	10	85.550	-3.449	991.4	-15.2
315	11	85.500	-5.193	995.3	-17.3
316	12	85.483	-6.776	1004.0	-15.8
317	13	85.478	-8.316	1012.4	-19.3
318	14	85.447	-9.150	1005.0	-21.4
319	15	85.451	-9.347	1004.7	-19.2
320	16	85.444	-9.406	1014.4	-17.5
321	17	85.443	-9.509	1027.5	-18.0
322	18	85.449	-9.674	1024.1	-19.9
323	19	85.446	-9.786	1023.3	-20.3
324	20	85.429	-9.984	1019.9	-20.6
325	21	85.394	-10.520	1014.4	-19.2
326	22	85.382	-10.809	1016.0	-16.8
327	23	85.380	-10.967	1013.9	-15.4
328	24	85.372	-11.433	1017.0	-14.7
329	25	85.370	-11.455	1021.3	-16.4
330	26	85.369	-11.474	1012.8	-15.7
331	27	85.428	-12.080	1003.8	-14.8
332	28	85.454	-12.128	1003.7	-13.6
333	29	85.511	-12.014	1000.8	-12.7
334	30	85.545	-11.715	996.7	-15.5

BUOY(3808) DEC. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1	85.581	-11.348	994.6	-11.1
336	2	85.525	-11.192	1000.5	-13.8
337	3	85.458	-11.021	1003.1	-16.7
338	4	85.401	-10.686	1007.3	-16.2
339	5	85.355	-11.080	1009.4	-16.9
340	6	85.322	-10.963	1007.5	-21.1
341	7	85.296	-10.930	1010.7	-22.2
342	8	85.276	-11.138	1020.5	-22.1
343	9	85.255	-11.136	1015.1	-21.9
344	10	85.252	-11.188	1015.5	-22.8
345	11	85.251	-11.222	1021.6	-22.4
346	12	85.224	-11.341	1020.1	-22.2
347	13	85.201	-11.412	1017.0	-20.6
348	14	85.187	-11.362	1006.0	-18.6
349	15	85.197	-11.374	1008.6	-17.7
350	16	85.191	-11.406	1011.6	-18.7
351	17	85.162	-11.224	1005.7	-19.7
352	18	85.125	-10.955	1003.9	-21.4
353	19	85.120	-10.981	1010.7	-24.6
354	20				
355	21	85.119*	-11.116	1002.2*	-24.6*
356	22	85.148	-11.624	1006.6	-19.4
357	23	85.148	-12.122	1002.0	-19.8
358	24	85.129*	-12.357	1004.2	-21.0
359	25			1012.4	-6.7
360	26			1015.6	-3.5
361	27				
362	28				
363	29				
364	30				
365	31				

BUOY(3809) JAN. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1	84.935*	143.912	1019.3	-25.7
2	2	84.942	143.725	1026.2	-29.5
3	3	84.945	143.707	1025.0	-33.3
4	4	84.955	143.522	1026.3	-35.7
5	5	84.951	143.115	1027.8	-33.8
6	6	84.939	142.756	1020.3	-30.1
7	7	84.968	142.065	1007.9	-32.6
8	8	84.981	140.678	983.4	-28.0
9	9	85.012	140.234	997.4	-33.1
10	10	85.004	140.593	1023.6	-37.7
11	11	85.017	141.926	1025.5	-30.7
12	12	85.025	143.489	1028.7	-23.5
13	13	85.005	144.531	1035.2	-26.4
14	14	85.043	145.275	1027.1	-28.2
15	15	85.088	146.013	1024.2	-35.8
16	16	85.168	146.150	1008.7	-35.2
17	17	85.214	145.812	1002.0	-33.1
18	18	85.232	145.342	1000.6	-34.7
19	19	85.262	144.967	1008.1	-38.8
20	20	85.314	144.656	1020.6	-39.4
21	21	85.407	142.881	986.1	-25.1
22	22	85.639	142.075	1009.4	-21.2
23	23	85.709	141.580	1023.7	-26.6
24	24	85.803	140.487	1010.8	-19.9
25	25	85.878	140.221	1020.6	-23.3
26	26	85.881	140.104	1019.8	-25.7
27	27	85.910	140.705	1024.2	-30.7
28	28	85.989	141.729	1021.8	-34.1
29	29	86.066	142.877	1017.9	-31.8
30	30	86.159	143.487	1015.8	-29.3
31	31	86.200	143.208	1017.3	-31.3

BUOY(3809) FEB. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
32	1	86.235	142.808	1015.5	-31.5
33	2	86.287	142.528	1020.3	-31.1
34	3	86.277	141.741	1020.8	-33.4
35	4	86.290	140.892	1016.5	-28.6
36	5	86.298	139.356	1008.4	-24.6
37	6	86.326	139.122	1016.6	-31.5
38	7	86.414	139.516	1020.5	-33.1
39	8	86.468	139.242	1015.2	-29.9
40	9	86.478	139.158	1008.2	-29.1
41	10	86.486	139.415	1009.3	-29.2
42	11	86.484	139.552	1010.7	-33.5
43	12	86.483	139.552	1007.3	-38.0
44	13	86.472	140.139	1004.4	-33.3
45	14	86.468	141.262	999.8	-26.7
46	15	86.504	142.398	993.3	-22.6
47	16	86.559	142.752	989.6	-25.0
48	17	86.651	141.925	992.0	-28.9
49	18	86.718	140.266	994.0	-27.9
50	19	86.747	139.884	997.9	-28.9
51	20	86.787	139.826	1008.9	-35.1
52	21	86.799	139.735	1017.7	-38.6
53	22	86.810	139.672	1023.4	-38.2
54	23	86.826	139.560	1029.4	-35.4
55	24	86.850	139.301	1026.3	-31.9
56	25	86.859	138.510	1022.0	-31.8
57	26	86.892	138.313	1022.7	-32.8
58	27	86.909	138.249	1023.3	-35.7
59	28	86.912	137.527	1011.4	-33.4

BUOY(3809) MAR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
60	1	86.906	137.046	1000.1	-31.9
61	2	86.903	137.073	1001.9	-36.1
62	3	86.914	137.930	1004.3	-38.4
63	4	86.978	139.030	1002.2	-32.0
64	5	87.078	139.970	999.4	-25.7
65	6	87.126	140.584	1007.4	-26.5
66	7	87.129	140.598	1006.6	-28.2
67	8	87.131	140.510	1012.2	-30.2
68	9	87.130	140.484	1018.6	-37.3
69	10	87.135	140.428	1026.8	-38.7
70	11	87.160	140.822	1031.2	-36.7
71	12	87.173	141.345	1041.2	-35.0
72	13	87.184	142.004	1045.2	-33.6
73	14	87.200	143.856	1035.3	-30.7
74	15	87.113	146.170	1027.4	-23.3
75	16	87.032	146.431	1029.8	-20.1
76	17	86.984	147.216	1012.9	-23.6
77	18	86.940	148.516	999.2	-19.3
78	19	86.919	148.549	1006.8	-25.7
79	20	86.906	148.582	1009.6	-29.9
80	21	86.924	149.322	991.6	-25.1
81	22			997.0	-31.0
82	23	86.960	149.226	1010.5	-34.1
83	24	86.979	149.193	1018.1	-35.5
84	25	86.989	149.225	1020.3	-36.1
85	26	87.005	149.816	1014.3	-30.1
86	27			1003.1	-26.4
87	28	87.068	149.900	1004.3	-27.8
88	29	87.090	148.666	1011.9	-33.2
89	30	87.099	148.146	1017.4	-34.8
90	31	87.109	148.134	1017.1	-33.6

BUOY(3809) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1	87.132	148.105	1021.0	-33.7
92	2	87.152	147.981	1024.5	-33.9
93	3	87.182	147.694	1025.4	-34.0
94	4	87.206	147.013	1023.9	-33.6
95	5	87.218	146.552	1028.3	-31.5
96	6	87.243	146.018	1035.0	-30.0
97	7			1029.9	-28.8
98	8	87.312	145.081	1020.8	-28.0
99	9	87.328	144.933	1024.7	-27.1
100	10	87.339	144.914	1027.1	-24.9
101	11	87.342	145.155	1022.0	-24.7
102	12	87.356	146.029	1019.1	-25.8
103	13	87.368	146.140	1018.0	-26.5
104	14	87.372	146.153	1019.5	-25.0
105	15	87.374	146.063	1020.0	-24.5
106	16	87.387	146.047	1016.1	-24.8
107	17	87.412	146.895	1010.3	-23.3
108	18	87.438	146.340	1005.1	-22.4
109	19	87.439	145.121	1002.9	-23.3
110	20	87.444	143.679	997.3	-23.4
111	21	87.437	142.557	1008.1	-23.2
112	22			1017.4	-21.8
113	23	87.420	142.911	1017.0	-21.1
114	24	87.445	143.902	1014.6	-21.3
115	25	87.480	144.111	1015.5	-20.3
116	26	87.509	143.892	1015.8	-18.5
117	27	87.528	143.683	1014.4	-17.8
118	28	87.562	143.254	1017.9	-17.5
119	29	87.598	142.669	1021.9	-16.9
120	30	87.625	141.912	1027.4	-16.3

BUOY(3809) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1	87.647	140.885	1027.3	-15.2
122	2	87.666	140.154	1031.7	-14.1
123	3	87.670	139.279	1034.3	-12.6
124	4	87.670	139.080	1035.0	-12.2
125	5	87.669	139.154	1033.8	-10.7
126	6	87.671	139.281	1032.8	-10.9
127	7	87.670	139.326	1032.9	-8.3
128	8	87.691	140.000	1028.9	-11.7
129	9	87.733	140.384	1033.8	-13.2
130	10	87.760	140.205	1032.9	-12.1
131	11	87.761	139.846	1034.1	-10.6
132	12	87.756	140.091	1033.4	-8.9
133	13	87.744	139.896	1028.0	-7.0
134	14	87.721	139.176	1027.4	-8.3
135	15	87.727	138.922	1028.1	-9.4
136	16	87.763	138.245	1028.5	-8.7
137	17	87.795	136.316	1019.0	-9.3
138	18	87.825	134.859	1012.7	-10.0
139	19	87.869	132.970	1009.2	-9.0
140	20	87.927	131.166	1010.3	-10.5
141	21	87.987	129.863	1012.2	-11.1
142	22	88.033	129.638	1015.3	-10.6
143	23	88.067	129.057	1012.4	-8.4
144	24	88.106	129.074	1014.3	-6.4
145	25	88.145	128.714	1014.6	-8.0
146	26	88.174	128.140	1014.4	-5.6
147	27	88.250	126.462	1013.6	-5.1
148	28	88.312	124.420	1019.5	-5.5
149	29	88.346	122.840	1021.9	-5.1
150	30	88.335	121.164	1020.7	-2.0
151	31	88.311	120.396	1020.4	-4.2

BUOY(3809) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	88.304	119.863	1020.3	-5.8
153	2	88.315	118.671	1017.4	-5.3
154	3	88.330	116.854	1015.9	-1.0
155	4	88.380	115.365	1016.1	-.0
156	5	88.464	115.113	1018.1	-3.9
157	6	88.516	114.436	1025.9	-4.7
158	7	88.541	112.604	1028.0	-2.7
159	8	88.539	109.153	1023.1	-1.4
160	9	88.538	104.896	1027.0	-.4
161	10	88.544	101.938	1031.2	.9
162	11	88.550	99.309	1029.7	.7
163	12	88.561	98.144	1026.5	1.6
164	13	88.549	97.655	1020.2	3.4
165	14	88.512	96.061	1014.4	1.4
166	15	88.505	95.447	1011.5	1.0
167	16	88.576	93.289	1009.7	1.2
168	17	88.677	92.764	1023.4	2.4
169	18	88.744	90.349	1024.5	1.8
170	19	88.785	88.089	1022.0	2.4
171	20	88.802	85.588	1018.1	2.4
172	21	88.811	84.685	1018.0	2.8
173	22	88.814	83.805	1018.4	2.0
174	23	88.801	82.272	1016.9	1.4
175	24	88.752*	80.852	1015.3	3.0
176	25	88.702*	80.938	1018.6	3.3
177	26	88.729	81.186	1005.2	3.5
178	27	88.694	84.671	1004.7	2.0
179	28	88.677	87.606	1000.7	2.2
180	29	88.666	87.668	999.6	3.9
181	30				

BUOY(3809) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	88.665*	90.563	1005.8*	3.0*
183	2	88.713	90.659	1011.2	2.6
184	3	88.822	86.782	1012.2	1.8
185	4	88.897	80.466	1009.8	1.0
186	5	88.899	77.013	1007.3	1.7
187	6	88.864	75.129	1003.6	3.4
188	7	88.850	70.689	1003.7	2.2
189	8	88.824	66.773	1003.3	2.5
190	9	88.798	62.821	1010.9	2.7
191	10	88.757	59.878	1013.6	2.8
192	11	88.729	57.691	1016.1	3.0
193	12	88.691	54.839	1004.4	2.2
194	13	88.655	50.962	997.6	1.8
195	14	88.603	47.575	994.3	1.9
196	15	88.597*	47.375	993.6	1.0
197	16	88.660	45.726	998.5	1.1
198	17			984.5	.8
199	18	88.436*	45.270	989.2	.4
200	19	88.366	47.436	998.3	1.9
201	20	88.338	49.263	1006.0	3.6
202	21	88.373	53.099	1005.6	1.6
203	22	88.367	55.662	1009.2	1.3
204	23			1013.8	1.8
205	24	88.394*	57.385	1008.0	1.8
206	25	88.446	59.342	1005.6	1.6
207	26	88.494	61.108	1001.8	1.4
208	27	88.480	63.578	1010.4	1.5
209	28			1014.7	2.4
210	29	88.534	63.754	1009.8	1.5
211	30	88.623	62.591	1000.9	1.3
212	31	88.646	62.823	996.7	1.8

BUOY(3809) AUG. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
213	1	88.616	64.463	1001.5	1.2
214	2	88.566	66.018	1004.3	.7
215	3	88.547	66.487	1010.6	1.6
216	4	88.514	65.586	1012.3	1.2
217	5	88.439	64.636	1011.2	1.2
218	6	88.342*	64.401	1008.0	1.2
219	7	88.279*	64.682	1007.2	.8
220	8	88.244	65.536	1012.9	.3
221	9	88.211	65.632	1012.0	.9
222	10	88.175	67.011	1019.7	1.5
223	11	88.160	68.504	1021.7	.2
224	12	88.153	68.889	1020.4	.4
225	13	88.134	68.682	1025.7	.6
226	14	88.114	68.854	1025.0	-.4
227	15	88.075	70.795	1020.8	2.3
228	16	88.038	73.189	1013.2	.7
229	17	88.009	74.283	1013.4	-.9
230	18	87.979	74.519	1012.5	-.3
231	19	87.936	74.995	1007.1	.8
232	20	87.906	75.682	1007.9	1.0
233	21	87.919	75.581	1011.1	1.2
234	22	87.942	74.250	1009.1	.0
235	23	87.952	73.833	1008.3	-.3
236	24	87.958	73.520	1008.4	-1.2
237	25	87.940	73.360	1006.0	-.3
238	26	87.879	75.433	1006.8	-1.5
239	27	87.884	77.219	1013.8	-1.1
240	28	87.924	77.598	1015.4	-4.2
241	29	87.965	76.551	1009.6	-3.2
242	30	87.937	75.785	1000.5	-2.5
243	31	87.909	75.754	997.6	-2.5

BUOY(3809) SEPT 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
244	1	87.872	75.536	1000.7	-4.1
245	2	87.788	75.395	1005.0	-2.6
246	3	87.681	75.128	1007.3	-2.9
247	4	87.624	75.254	1009.3	-4.5
248	5	87.588	74.810	1006.5	-3.3
249	6	87.531	74.841	998.1	-3.6
250	7	87.526	75.358	998.5	-3.5
251	8	87.532	74.002	993.5	-3.6
252	9			994.2	-4.8
253	10	87.531*	74.148	1002.1	-8.9
254	11	87.563*	74.545	1007.9	-11.5
255	12	87.631*	74.196	1001.5	-9.7
256	13			980.6	-5.1
257	14	87.628	77.154	989.8	-8.2
258	15	87.806	81.686	997.7	-7.8
259	16	87.765	83.301	1006.8	-9.4
260	17	87.779	83.371	1005.3	-8.8
261	18	87.758	84.262	1008.8	-7.4
262	19	87.795	84.602	1005.5	-6.7
263	20	87.801	82.920	996.1	-9.1
264	21	87.737	82.306	1004.4	-11.3
265	22	87.736	81.999	1014.0	-12.1
266	23	87.726	80.024	1011.3	-10.1
267	24	87.736	78.202	1001.7	-6.1
268	25	87.744	77.261	997.2	-6.5
269	26	87.751	76.750	1005.5	-7.4
270	27	87.730	76.073	1013.9	-12.0
271	28	87.707	74.224	1017.9	-9.1
272	29	87.683	73.082	1022.4	-10.2
273	30	87.686	72.272	1027.9	-9.2

BUOY(3809) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1	87.699	72.175	1022.4	-13.6
275	2	87.760	73.121	1018.6	-12.6
276	3	87.781	74.891	1013.5	-7.2
277	4	87.795	76.761	1015.5	-4.1
278	5	87.876	78.093	1012.2	-5.3
279	6	87.910	79.091	1010.1	-3.9
280	7	87.903	80.135	1010.3	-3.7
281	8	87.898	80.262	1001.6	-6.2
282	9	87.907	80.219	994.4	-8.1
283	10	87.931	79.257	995.6	-10.4
284	11	87.998	78.883	1012.2	-7.5
285	12	88.033	78.165	1017.6	-8.0
286	13	88.049	77.730	1019.8	-8.0
287	14	88.057	77.892	1020.9	-10.4
288	15	88.078	78.085	1026.8	-12.4
289	16	88.101	78.080	1032.1	-15.9
290	17	88.111	78.182	1033.7	-16.8
291	18	88.109	80.859	1031.2	-15.2
292	19	88.094	82.966	1023.4	-15.9
293	20	88.119	84.690	1018.3	-15.2
294	21	88.194	86.715	1013.4	-11.5
295	22	88.248	90.282	1009.9	-9.7
296	23	88.271	91.502	1012.3	-16.1
297	24	88.282	92.342	1010.1	-17.3
298	25	88.310	93.014	1007.2	-15.9
299	26	88.295	92.066	1009.5	-25.4
300	27	88.302	90.385	1013.3	-26.5
301	28	88.294	87.905	1019.7	-23.1
302	29	88.307	86.105	1026.6	-21.3
303	30	88.318	85.922	1026.9	-21.9
304	31	88.320	85.630	1021.9	-24.4

BUOY(3809) NOV. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
305	1	88.329	85.682	1017.3	-24.4
306	2	88.366	85.638	1019.6	-22.3
307	3	88.396	85.239	1022.6	-20.5
308	4	88.409	84.095	1014.8	-20.9
309	5	88.406	84.056	1017.1	-20.9
310	6	88.431	84.766	1020.5	-22.1
311	7	88.472*	85.290	1020.9	-23.7
312	8	88.549*	86.057	1016.6	-19.3
313	9	88.653	86.849	1012.1	-19.6
314	10	88.764	87.408	1013.0	-22.0
315	11	88.883	87.671	1015.5	-21.7
316	12			1025.0	-21.2
317	13			1028.4	-23.6
318	14			1022.3	-24.8
319	15			1017.1	-23.3
320	16			1025.4	-22.6
321	17			1032.4	-24.0
322	18			1030.4*	-24.0*
323	19			1030.7*	-24.9*
324	20			1032.7	-24.2
325	21				
326	22			1030.8*	-23.0*
327	23			1029.8	-23.3
328	24				
329	25				
330	26				
331	27				
332	28				
333	29	89.686*	104.284	999.6	-16.1
334	30			1000.1	-16.2

BUOY(3809) DEC. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1			994.4	-14.5
336	2	89.659*	103.648	997.1	-12.5
337	3	89.713	96.077	1003.7	-16.1
338	4				
339	5				
340	6				
341	7				
342	8				
343	9				
344	10				
345	11				
346	12				
347	13				
348	14			1001.4*	-15.5*
349	15			1010.0	-15.4
350	16			1010.2	-16.4
351	17			1004.8*	-21.2*
352	18				
353	19			1009.7*	-22.1*
354	20				
355	21				
356	22				
357	23				
358	24				
359	25				
360	26				
361	27				
362	28				
363	29				
364	30				
365	31				

BUOY(3811) JAN. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1			1027.9	-12.0
2	2	80.602	-111.430	1026.4	-10.6
3	3	80.553	-111.602	1023.9	-9.9
4	4	80.525	-111.722	1019.9	-9.8
5	5	80.528	-111.705	1026.8	-10.7
6	6	80.518	-111.676	1027.5	-12.5
7	7			1021.4	-13.2
8	8	80.453	-111.521	1017.9	-13.1
9	9	80.471	-111.297	1015.6	-13.2
10	10	80.462	-111.092	1034.3	-13.3
11	11	80.471	-111.015	1021.5	-15.2
12	12	80.469	-111.011	1003.2	-16.5
13	13	80.428	-111.180	995.4	-17.6
14	14	80.366	-111.602	1015.6	-16.3
15	15			1021.0	-15.0
16	16	80.362*	-111.623	1021.6	-16.5
17	17	80.365*	-111.624	1022.5	-18.3
18	18	80.362	-111.613	1025.3	-19.1
19	19	80.363	-111.618	1030.9	-19.5
20	20	80.361	-111.616	1045.5	-19.1
21	21	80.361	-111.624	1050.5	-18.7
22	22	80.369	-111.528	1034.6	-16.7
23	23	80.367*	-111.536	1033.8	-16.0
24	24	80.366*	-111.540	1024.4	-15.5
25	25	80.365	-111.525	1023.2	-14.4
26	26	80.360	-111.529	1022.7	-15.0
27	27	80.364	-111.551	1016.5	-15.0
28	28	80.364	-111.550	1022.2	-15.2
29	29	80.362	-111.549	1018.6	-16.7
30	30	80.366	-111.541	1018.8	-17.6
31	31	80.364	-111.531	1025.8	-17.5

BUOY(3811) FEB. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
32	1			1024.4	-16.9
33	2			1034.2	-15.6
34	3	80.365*	-111.541	1038.9	-16.4
35	4	80.363	-111.545	1030.8	-17.3
36	5	80.368	-111.574	1010.3	-17.9
37	6	80.360	-111.562	1016.1	-18.0
38	7	80.365	-111.523	1030.4	-17.2
39	8	80.359	-111.522	1020.0	-18.1
40	9	80.359	-111.558	1011.6	-18.3
41	10			1004.4	-18.5
42	11	80.360*	-111.538	1011.1	-18.1
43	12	80.360	-111.538	1004.0	-19.1
44	13	80.359	-111.551	999.7	-20.2
45	14	80.361	-111.507	1003.6	-21.1
46	15	80.360	-111.546	1012.0	-21.6
47	16	80.355	-111.534	1015.1	-22.1
48	17	80.361	-111.546	1018.6	-22.3
49	18	80.359*	-111.549	1019.9	-22.6
50	19	80.360*	-111.539	1021.8	-22.8
51	20	80.361	-111.543	1020.4	-22.9
52	21	80.360	-111.538	1020.1	-22.4
53	22	80.365	-111.537	1022.5	-22.2
54	23	80.360	-111.542	1027.3	-22.3
55	24	80.359	-111.539	1032.8	-21.8
56	25			1024.6	-22.1
57	26			1024.4	-21.9
58	27	80.360*	-111.541	1027.7	-22.0
59	28			1024.3	-22.1

BUOY(3811) MAR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
60	1	80.360*	-111.541	1005.2	-21.7
61	2	80.362	-111.555	990.3	-19.8
62	3	80.358	-111.522	1001.1	-18.6
63	4	80.356	-111.553	1013.2	-19.4
64	5	80.358	-111.522	1016.3	-20.9
65	6	80.359	-111.541	1010.4	-21.0
66	7			1010.7	-20.1
67	8	80.360*	-111.548	1010.8	-20.6
68	9	80.361	-111.547	1006.0	-20.1
69	10	80.360	-111.547	1001.7	-20.6
70	11	80.357	-111.550	1013.8	-20.2
71	12	80.358	-111.548	1018.9	-20.0
72	13	80.360	-111.544	1019.4	-19.8
73	14	80.359	-111.540	1014.0	-19.2
74	15	80.359	-111.548	1015.3	-18.7
75	16	80.360	-111.535	1013.8	-19.3
76	17			1010.7	-19.5
77	18	80.355*	-111.607	1010.5	-19.5
78	19	80.360	-111.529	1007.4	-19.9
79	20	80.374	-111.513	1006.3	-19.8
80	21	80.376	-111.394	1004.0	-19.7
81	22	80.366	-111.264	1006.6	-20.7
82	23	80.363	-111.237	1007.9	-20.7
83	24			1017.7	-20.7
84	25			1024.9	-21.2
85	26	80.359*	-111.257	1023.6	-21.8
86	27	80.358	-111.187	1021.8	-22.4
87	28	80.357	-111.218	1022.0	-23.0
88	29	80.361	-111.224	1016.5	-23.1
89	30	80.357	-111.225	1018.7	-22.8
90	31	80.362	-111.190	1020.3	-21.9

BUOY(3811) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1	80.358	-111.199	1026.1	-21.3
92	2	80.357*	-111.203	1027.8	-21.6
93	3			1026.8	-21.9
94	4	80.360*	-111.199	1019.8	-22.3
95	5	80.357	-111.207	1018.7	-22.5
96	6	80.356*	-111.194	1025.5	-22.4
97	7	80.358	-111.202	1025.2	-22.6
98	8	80.359	-111.195	1022.0	-22.6
99	9	80.360	-111.210	1025.6	-22.5
100	10	80.360*	-111.212	1024.2	-22.4
101	11			1018.1	-21.9
102	12	80.358*	-111.204	1011.5	-21.2
103	13	80.357	-111.210	1008.2	-20.5
104	14	80.357	-111.205	1005.7	-19.4
105	15	80.357	-111.205	1005.4	-18.9
106	16	80.358	-111.201	1009.9	-19.3
107	17	80.358	-111.185	1006.7	-19.8
108	18	80.356	-111.198	1004.0	-19.9
109	19	80.357*	-111.200	1018.3	-20.5
110	20			1016.1	-20.2
111	21			1003.4	-19.0
112	22	80.364	-111.231	1002.3	-18.0
113	23	80.366	-111.300	1007.8	-17.5
114	24	80.358	-111.310	1011.4	-17.3
115	25	80.354	-111.283	1019.2	-16.9
116	26	80.358	-111.273	1020.1	-16.8
117	27	80.358	-111.315	1023.2	-17.2
118	28			1028.8	-17.4
119	29			1030.5	-17.5
120	30	80.358*	-111.321	1034.9	-17.3

BUOY(3811) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1	80.358	-111.302	1039.0	-17.0
122	2	80.358	-111.308	1037.7	-16.6
123	3	80.358	-111.303	1034.9	-16.3
124	4	80.359	-111.283	1031.6	-15.9
125	5	80.356	-111.313	1031.7	-15.2
126	6	80.358	-111.311	1033.3	-14.8
127	7	80.359	-111.314	1029.2	-14.5
128	8	80.358	-111.317	1020.8	-14.2
129	9			1020.4	-13.2
130	10	80.352*	-111.352	1023.1	-12.4
131	11	80.354*	-111.356	1026.9	-12.0
132	12	80.352*	-111.346	1027.9	-11.5
133	13	80.352	-111.359	1024.9	-11.4
134	14	80.353	-111.353	1025.4	-11.2
135	15			1029.8	-11.2
136	16			1032.9	-11.1
137	17	80.352*	-111.338	1030.8	-10.8
138	18	80.355	-111.329	1032.4	-10.8
139	19	80.354	-111.327	1032.9	-10.6
140	20	80.362	-111.301	1026.1	-10.5
141	21	80.389	-111.508	1013.9	-10.5
142	22	80.459	-111.723	1007.8	-10.2
143	23	80.483	-111.526	1009.6	-9.5
144	24			1011.4	-9.2
145	25	80.451*	-111.949	1009.2	-8.9
146	26	80.456	-112.231	1006.2	-8.5
147	27	80.478	-112.182	1009.7	-8.2
148	28	80.483*	-112.166	1016.0	-8.1
149	29	80.450	-112.272	1020.7	-7.9
150	30	80.395	-112.369	1019.3	-7.9
151	31	80.372	-112.288	1023.4	-7.8

BUOY(3811) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1			1024.8	-8.0
153	2			1025.0	-8.2
154	3	80.316*	-112.499	1025.3	-8.1
155	4	80.250	-112.735	1022.2	-7.7
156	5	80.170	-112.964	1021.7	-7.2
157	6	80.104	-113.273	1026.5	-6.9
158	7	80.085	-113.396	1031.4	-6.6
159	8	80.083	-113.405	1030.9	-6.5
160	9			1032.3	-6.5
161	10			1026.7	-6.5
162	11	80.072*	-113.695	1026.6	-6.3
163	12			1015.6	-5.7
164	13	80.138*	-113.551	1021.1	-5.0
165	14	80.196	-113.454	1014.3	-4.6
166	15	80.163	-113.491	1020.4	-4.1
167	16	80.108	-113.366	1024.5	-3.6
168	17	80.063	-113.467	1026.3	-3.3
169	18	79.992*	-113.882	1025.3	-3.2
170	19			1021.6	-3.0
171	20			1022.5	-2.7
172	21	79.837*	-114.728	1023.8	-2.5
173	22	79.835*	-114.696	1022.4	-2.1
174	23	79.832	-114.655	1021.0	-1.8
175	24			1014.9	-1.3
176	25	79.843*	-114.466	1008.8	-1.2
177	26			1011.1	-.8
178	27			1012.7	-.4
179	28			1016.6	-.4
180	29			1004.7	-.3
181	30				

BUOY(3814) JAN. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
1	1	84.767*	5.346	1039.0	-28.8
2	2	84.769	5.447	1031.1	-28.0
3	3	84.767	5.405	1031.4	-24.0
4	4	84.745	5.514	1020.3	-24.5
5	5	84.701	5.368	1029.8	-26.1
6	6				
7	7				
8	8				
9	9				
10	10				
11	11				
12	12				
13	13				
14	14			1003.7*	-28.3*
15	15				
16	16				
17	17				
18	18				
19	19				
20	20				
21	21				
22	22			1013.6*	-25.6*
23	23				
24	24	83.375*	4.106	1017.0*	-25.2*
25	25	83.202	3.720	1007.0	-20.9
26	26				
27	27				
28	28				
29	29				
30	30				
31	31				

BUOY(3814) FEB. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
32	1				
33	2				
34	3				
35	4				
36	5				
37	6	82.649*	3.222	1001.2*	-16.8*
38	7			1007.0	-20.6
39	8				
40	9				
41	10				
42	11				
43	12			990.8*	-18.9*
44	13			991.2	-19.1
45	14				
46	15				
47	16				
48	17				
49	18				
50	19				
51	20				
52	21				
53	22				
54	23				
55	24				
56	25				
57	26				
58	27				
59	28				

BUOY(3814) MAR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
60	1				
61	2				
62	3				
63	4				
64	5				
65	6				
66	7				
67	8	79.673	-3.767	1001.0	-11.5
68	9	79.549	-4.033	997.7	-10.3
69	10	79.499	-4.118	993.4	-5.9
70	11	79.352	-4.343	999.8	-5.3
71	12	79.170	-5.034	1008.0	-8.0
72	13	78.951	-5.648	1010.2	-11.1
73	14	78.817	-5.927	1018.3	-9.2
74	15	78.704	-6.057	1019.8	-10.9
75	16	78.569	-6.304	1023.6	-9.9
76	17	78.497	-6.249	1016.4	-8.9
77	18			1021.6*	-13.1*
78	19			1006.7*	-12.1*
79	20			1010.4	-12.6
80	21				
81	22			1005.7*	-11.5*
82	23				
83	24				
84	25				
85	26				
86	27				
87	28				
88	29				
89	30				
90	31				

BUOY(3814) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1				
92	2				
93	3				
94	4				
95	5				
96	6				
97	7				
98	8				
99	9				
100	10				
101	11				
102	12				
103	13				
104	14				
105	15				
106	16				
107	17				
108	18				
109	19	72.933*	-13.983	1005.4*	-4.7*
110	20				
111	21	72.811*	-14.520	988.3	-3.9
112	22				
113	23				
114	24				
115	25				
116	26				
117	27				
118	28				
119	29				
120	30				

BUOY(3815) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1				
122	2				
123	3				
124	4				
125	5				
126	6				
127	7				
128	8	82.613*	7.285		
129	9	82.585	7.091		
130	10	82.610	6.921	1015.7*	0*
131	11	82.629	6.953	1021.8	-2.1
132	12	82.638	6.785	1028.5	-6.0
133	13	82.658	6.362	1031.2	-5.8
134	14	82.672	6.077	1027.9	-5.1
135	15	82.659	5.965	1026.1	-5.1
136	16	82.640	5.833	1027.4	-5.1
137	17	82.627	5.681	1022.8	-6.5
138	18	82.569	5.528	1021.9	-9.1
139	19	82.474	5.384	1026.2	-11.3
140	20	82.380	5.429	1025.6	-12.5
141	21	82.280	5.484	1021.8	-12.4
142	22	82.170	5.361	1016.7	-11.5
143	23	82.075	5.116	1016.0	-12.0
144	24	82.026	4.911	1014.1	-11.4
145	25	81.963	4.778	1018.4	-10.1
146	26	81.922	4.742	1017.2	-9.4
147	27	81.903	4.637	1019.0	-7.2
148	28	81.871	4.478	1026.1	-4.5
149	29	81.856	4.318	1026.0	-7.6
150	30	81.865	4.224	1021.4	-7.6
151	31	81.865	3.847	1016.7	-6.3

BUOY(3815) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	81.837	3.507	1019.1	-6.3
153	2	81.792	3.217	1018.9	-6.0
154	3	81.717	2.991	1024.3	-6.9
155	4	81.677	2.972	1019.0	-4.9
156	5	81.634	2.816	1019.3	-4.3
157	6	81.569	2.614	1021.7	-5.1
158	7	81.505	2.270	1030.6	-5.5
159	8	81.454	2.045	1031.5	-5.0
160	9	81.414	1.866	1035.0	-3.5
161	10	81.330	1.612	1031.9	-3.9
162	11	81.283	1.371	1030.9	-1.7
163	12	81.229	1.105	1027.1	-2.8
164	13	81.179	.872	1025.3	-2.3
165	14	81.128	.720	1018.0	-.9
166	15	81.043	.455	1014.2	.3
167	16	80.918	.374	1011.8	.0
168	17	80.750	.396	1010.2	-.5
169	18	80.621	.143	1019.2	-.4
170	19	80.519	.004	1016.9	.1
171	20	80.412	-.318	1017.2	-.0
172	21	80.314	-.440	1015.6	.3
173	22	80.211	-.397	1015.2	1.3
174	23	80.120	-.307	1014.9	.8
175	24	80.042	-.322	1013.1	-.4
176	25	79.942	-.270	1010.6	-1.2
177	26	79.835	-.105	1012.1	.6
178	27	79.727	-.247	1009.2	1.8
179	28	79.627	-.648	1011.4	1.5
180	29	79.593	-.864	1012.4	-.4
181	30				

BUOY(3815) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	79.464*	-1.157	1009.8*	3.6*
183	2	79.450	-1.411	1012.4	2.1
184	3	79.442	-1.723	1010.8	.8
185	4	79.382	-1.930	1009.6	.3
186	5	79.295	-2.044	1014.6	.3
187	6	79.228	-2.177	1013.2	2.8
188	7	79.135	-2.101	1012.0	6.5
189	8	79.019	-2.180	1016.5	3.1
190	9	78.799	-2.510	1017.8	4.2
191	10	78.559	-2.124	1020.6	2.6
192	11	78.438	-2.680		
193	12	78.260	-4.047		
194	13	77.880	-4.163		
195	14	77.501	-3.859		
196	15	77.199	-3.139		
197	16	77.014	-2.742	1006.8	1.4
198	17	76.778	-2.315	1011.3	1.2
199	18	76.658	-2.404	1005.5*	1.9*
200	19				
201	20				
202	21				
203	22				
204	23				
205	24				
206	25				
207	26				
208	27				
209	28				
210	29				
211	30				
212	31				

BUOY(3816) APR. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
91	1				
92	2				
93	3				
94	4				
95	5				
96	6				
97	7				
98	8				
99	9				
100	10				
101	11				
102	12				
103	13				
104	14				
105	15				
106	16				
107	17				
108	18				
109	19				
110	20				
111	21				
112	22				
113	23				
114	24				
115	25				
116	26				
117	27	83.532*	46.894		
118	28	84.027	49.243		
119	29	83.979	48.148		
120	30	83.947	47.326	1007.1*	-6.5*

BUOY(3816) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1	83.972	46.431	1016.3	-14.4
122	2	83.952	45.679	1021.7	-18.3
123	3	83.931	45.120	1026.1	-13.8
124	4	83.916	44.816	1028.7	-15.0
125	5	83.949	44.365	1023.2	-10.4
126	6	83.988	43.841	1026.5	-9.3
127	7	83.994	43.653	1025.2	-6.2
128	8	84.001	42.990	1012.5	-10.3
129	9	83.955	42.355	1023.4	-15.3
130	10	83.946	42.075	1028.0	-15.0
131	11	83.958	42.093	1030.2	-10.8
132	12	83.965	42.091	1035.3	-9.0
133	13	83.966	42.103	1036.7	-9.6
134	14	83.960	42.118	1032.1	-11.7
135	15	83.957	42.090	1029.5	-10.5
136	16	83.934	41.857	1027.2	-9.4
137	17	83.894	41.553	1024.1	-13.0
138	18	83.851	41.448	1012.6	-8.4
139	19	83.782	41.067	1016.5	-13.8
140	20	83.681	40.945	1015.5	-11.9
141	21	83.605	40.937	1012.3	-12.7
142	22	83.550	40.769	1007.5	-15.0
143	23	83.521	40.133	1009.7	-14.4
144	24	83.474	39.509	1008.6	-12.9
145	25	83.434	38.984	1012.9	-12.0
146	26	83.409	38.656	1013.5	-11.6
147	27	83.325	38.365	1012.7	-10.1
148	28	83.196	38.067	1019.5	-8.3
149	29	83.142	37.731	1025.2	-7.6
150	30	83.118	37.730	1023.4	-7.5
151	31	83.127	37.627	1020.2	-5.2

BUOY(3816) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	83.138	37.519	1020.2	-4.3
153	2	83.140	37.241	1017.8	-6.3
154	3	83.109	36.948	1020.3	-6.5
155	4	83.069	36.947	1018.1	-8.7
156	5	83.036	37.058	1012.2	-6.2
157	6	83.035	36.981	1015.9	-4.7
158	7	83.027	36.341	1024.9	-7.2
159	8	82.968	35.712	1025.4	-6.2
160	9	82.878	35.304	1023.6	-4.6
161	10	82.817	34.594	1027.8	-1.6
162	11	82.765	34.023	1026.0	-2.4
163	12	82.706	33.429	1021.8	-1.5
164	13	82.680	33.012	1020.4	-.6
165	14	82.651	32.887	1013.9	-.9
166	15	82.593	32.652	1004.8	-1.7
167	16	82.498	32.577	1000.5	-1.5
168	17	82.496	32.834	1011.3	-1.3
169	18	82.513	32.496	1014.0	-1.1
170	19	82.504	32.014	1014.3	-1.4
171	20	82.484	31.380	1012.2	-1.0
172	21	82.474	31.189	1013.2	.5
173	22	82.462	30.970	1013.9	1.3
174	23	82.441	30.601	1014.6	1.9
175	24	82.427	30.138	1013.7	-1.2
176	25	82.465	29.724	1011.3	-.6
177	26	82.453	29.977	1013.8	-.7
178	27	82.461	30.307	1014.3	-.6
179	28	82.461	30.567	1012.4	-1.5
180	29	82.476	31.167	1011.2	-.7
181	30	82.477*	31.834	1006.7*	.2*

BUOY(3816) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	82.508*	32.407	1004.2*	.8*
183	2	82.508	32.435	1004.1	.1
184	3	82.455	32.424	1003.3	-1.0
185	4	82.382	32.824	999.3	-.4
186	5	82.324	32.771	1002.5	-1.1
187	6	82.248	32.803	1010.1	-1.0
188	7	82.201	33.142	1008.4	-.6
189	8	82.158	33.421	1007.9	-.8
190	9	82.103	33.567	1011.3	.1
191	10	82.063	33.565	1014.0	-.6
192	11	82.006	33.574	1013.0	-1.1
193	12	81.968	33.434	1004.0	-2.6
194	13	81.930	33.588	992.6	-1.0
195	14	81.831	33.730	991.7	.2
196	15	81.736	33.980	998.9	-.8
197	16	81.692	34.492	1000.1	.2
198	17	81.591	35.043	1003.7	-1.2
199	18	81.520	35.608	1007.1	-.3
200	19	81.541	35.999	1008.3	.4
201	20	81.587	35.894	1005.6	.4
202	21	81.635	35.787	1007.5	.7
203	22	81.667	35.785	1008.7	1.0
204	23	81.702	35.509	1004.9	.7
205	24	81.813	35.502	1004.8	.8
206	25	81.912	35.787	1003.0	.8
207	26	81.900	35.993	1009.1	.3
208	27	81.927	36.038	1010.5	.5
209	28	82.022	36.049	1005.8	.7
210	29	82.103	36.228	1000.6	.6
211	30	82.158	36.872	1003.1	-.1
212	31	82.164	37.086	1002.9	-.2

BUOY(3816) AUG. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
213	1	82.127	37.370	1009.7	.1
214	2	82.114	37.524	1014.5	.7
215	3	82.123	37.580	1011.0	.5
216	4	82.121	37.374	1019.0	.4
217	5	82.094	37.252	1022.7	.2
218	6	82.056	37.199	1018.3	-.8
219	7	82.005	37.035	1013.1	.9
220	8	81.983	36.738	1013.7	-.5
221	9	81.974	36.462	1017.3	.4
222	10	81.998	36.196	1021.5	.3
223	11	82.064	35.928	1019.3	.4
224	12	82.107	35.640	1021.4	.0
225	13	82.128	35.323	1025.6	-1.7
226	14	82.146	34.962	1030.3	-1.6
227	15	82.181	34.662	1025.4	-2.2
228	16	82.244	34.683	1020.5	-2.1
229	17	82.262	34.746	1016.0	-.0
230	18	82.223	34.607	1015.8	-.3
231	19	82.164	34.212	1014.1	-1.4
232	20	82.115	34.099	1009.6	-.8
233	21	82.081	33.966	1008.7	.2
234	22	82.068	33.962	1007.2	-.5
235	23	82.041	33.998	1005.4	-2.6
236	24	82.038	34.038	1007.4	-2.4
237	25	82.052	34.066	1010.2	-1.6
238	26	82.083	34.132	1010.3	-1.1
239	27	82.177	33.754	1002.0	-1.5
240	28	82.179	33.808	1007.0	-4.8
241	29	82.180	33.712	1006.7	-8.1
242	30	82.143	33.702	1001.0	-2.9
243	31	82.147	34.048	998.1	-3.9

BUOY(3816) SEPT 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
244	1	82.109	33.865	1009.4	-6.6
245	2	82.064	33.829	1018.6	-11.6
246	3	82.043	33.706	1019.7	-8.6
247	4	82.016	33.587	1019.3	-5.9
248	5	81.997	33.606	1013.1	-7.6
249	6	81.986	33.429	1005.5	-7.6
250	7	81.959	33.584	1001.4	-5.2
251	8	81.902	34.029	1004.6	-7.0
252	9	81.880	34.147	1006.7	-12.4
253	10	81.879	34.271	1003.8	-9.8
254	11	81.891	34.503	1001.9	-7.2
255	12	81.812	34.082	988.2	-8.6
256	13	81.683	34.802	1003.4	-11.1
257	14	81.662	35.356	1006.3	-6.9
258	15	81.718	35.913	1010.1	-4.1
259	16	81.786	35.907	1002.0	-2.1
260	17	81.786	35.996	1009.3	-3.3
261	18	81.868	35.871	1000.6	-1.9
262	19	81.937	35.358	995.4	-3.6
263	20	81.925	34.913	1001.7	-10.5
264	21	81.896	34.837	1011.3	-10.1
265	22	81.887	34.663	1010.7	-8.9
266	23	81.870	33.811	999.5	-8.0
267	24	81.811	32.841	1002.6	-4.9
268	25	81.687	32.956	1012.5	-12.6
269	26	81.685	33.468	1007.2	-7.3
270	27	81.642	33.484	1020.6	-12.5
271	28	81.595	33.612	1024.8	-14.5
272	29	81.520	33.696	1030.5	-9.9
273	30	81.525	33.831	1034.3	-14.2

BUOY(3816) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1	81.531	34.171	1027.0	-6.6
275	2	81.563	34.615	1024.9	-3.4
276	3	81.628	35.086	1017.0	-1.3
277	4	81.745	35.274	1005.0	-2.1
278	5	81.789	35.575	1008.0	-2.4
279	6	81.828	35.767	1012.5	-1.0
280	7	81.836	36.089	1016.9	-3.9
281	8	81.891	36.773	1007.3	-5.0
282	9	81.838	36.966	1000.9	-11.8
283	10	81.625	36.715	995.5	-11.2
284	11	81.411	36.646	1000.9	-8.7
285	12	81.408	36.088	1012.9	-6.7
286	13	81.386	35.876	1018.6	-13.7
287	14	81.362	35.732	1022.9	-18.9
288	15	81.370	35.621	1027.3	-21.8
289	16	81.371	35.566	1033.0	-25.1
290	17	81.402	35.508	1036.5	-24.2
291	18	81.507	35.471	1033.2	-16.5
292	19	81.654	35.367	1019.2	-12.2
293	20	81.662	35.443	1014.2	-13.0
294	21	81.734	35.859	1017.4	-6.8
295	22	81.842	36.471	1016.5	-8.9
296	23	81.859	36.794	1014.6	-8.5
297	24	81.922	37.246	1009.5	-6.5
298	25	81.924	37.732	1011.6	-6.6
299	26	81.887	37.927	1011.3	-9.7
300	27	81.845	37.957	1017.4	-22.3
301	28	81.762	38.044	1023.1	-26.0
302	29	81.706	38.080	1023.3	-26.5
303	30	81.697	37.873	1023.8	-28.9
304	31	81.683	37.604	1021.9	-28.4

BUOY(3816) NOV. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
305	1	81.581	37.453	1006.4	-25.2
306	2	81.526	37.198	999.8	-22.9
307	3	81.524	36.182	1010.6	-22.0
308	4	81.453	35.722	1015.3	-23.0
309	5	81.437	35.592	1016.8	-31.1
310	6	81.451	35.660	1017.8	-29.6
311	7	81.572	35.521	1005.8	-18.6
312	8	81.750	35.090	995.3	-8.3
313	9	81.855	35.094	991.9	-7.6
314	10	82.092	34.208	984.2	-9.6
315	11	82.199	33.517	991.9	-10.2
316	12	82.300	32.376	999.7	-12.0
317	13	82.340	31.215	1005.5	-15.6
318	14	82.355	30.480	1005.5	-21.5
319	15	82.378	30.003	1003.2	-17.3
320	16	82.402	29.257	1010.4	-16.8
321	17	82.387	28.525	1025.3	-22.1
322	18	82.365	28.002	1024.5	-23.0
323	19	82.368	26.863	1010.6	-16.8
324	20	82.378	25.240	1003.1	-13.3
325	21	82.405	23.618	1003.9	-10.2
326	22	82.403	22.480	1006.5	-12.0
327	23	82.410	21.504	1007.1	-8.8
328	24	82.414	20.496	1009.5	-10.6
329	25	82.410	19.603	1013.9	-12.0
330	26	82.401	18.939	1015.4	-13.7
331	27	82.420	18.562	1011.1	-15.6
332	28	82.440	18.460	1013.3	-13.7
333	29	82.506	18.784	1013.9	-8.9
334	30	82.558	19.494	1012.3	-7.8

BUOY(3816) DEC. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1	82.664	19.553	996.2	-7.3
336	2	82.670	19.445	990.8	-9.0
337	3	82.524	18.181	990.4	-8.9
338	4	82.334	18.196	1006.6	-15.0
339	5	82.265	18.001	1002.2	-17.2
340	6	82.197	16.958	1002.5	-26.4
341	7	82.105	16.708	1009.7	-28.7
342	8	82.046	16.427	1012.9	-27.7
343	9	81.969	15.858	1011.4	-31.9
344	10	81.905	15.532	1007.3	-26.1
345	11	81.832	14.862	1012.2	-22.7
346	12	81.737	14.038	1009.3	-19.8
347	13	81.648	13.053	1011.0	-16.2
348	14	81.589	12.467	1005.6	-21.2
349	15	81.558	11.822	1002.2	-23.7
350	16	81.535	10.718	1004.2	-23.5
351	17	81.444	10.283	1006.3	-25.8
352	18	81.372	10.161	1008.0	-30.0
353	19	81.320	9.559	1010.7	-29.9
354	20	81.204	8.646	1006.9	-26.2
355	21	81.137	8.031	998.8	-15.9
356	22	81.189	6.883	996.6	-15.5
357	23	81.168	5.692	988.7	-17.3
358	24	81.060	5.172	998.9	-21.2
359	25	80.908	5.443	1014.7	-25.2
360	26	80.836	5.016	1007.8	-26.2
361	27	80.751	3.933	1009.2	-26.0
362	28	80.617	3.244	1015.4	-24.7
363	29	80.503	2.652	1022.2	-20.6
364	30	80.667*	1.881	991.7*	-9.7*
365	31				

BUOY(3817) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1	83.788	-18.913	1028.8	-16.3
122	2	83.784	-18.872	1035.7	-18.3
123	3	83.782	-18.869	1037.9	-17.1
124	4	83.778	-18.857	1033.2	-17.0
125	5	83.783	-18.894	1026.0	-15.3
126	6	83.780	-18.889	1026.3	-9.5
127	7	83.782	-18.873	1022.7	-6.9
128	8	83.782	-18.876	1018.3	-10.2
129	9	83.782	-18.888	1025.6	-6.6
130	10	83.781	-18.929	1012.7	-3.8
131	11	83.783	-18.915	1024.6	-10.4
132	12	83.782	-18.939	1032.5	-11.2
133	13	83.783	-18.939	1034.6	-8.8
134	14	83.782	-18.929	1029.4	-10.6
135	15	83.781	-18.933	1026.2	-7.8
136	16	83.780	-18.924	1028.1	-8.1
137	17	83.782	-18.946	1026.3	-10.8
138	18	83.768	-18.833	1026.8	-11.1
139	19	83.703	-18.488	1030.2	-12.3
140	20	83.637	-18.035	1027.8	-12.4
141	21	83.583	-17.633	1024.5	-12.5
142	22	83.524	-17.365	1022.8	-11.6
143	23	83.512	-17.310	1019.0	-10.4
144	24	83.510	-17.315	1018.0	-10.8
145	25	83.500	-17.260	1022.0	-8.6
146	26	83.484	-17.182	1019.6	-9.2
147	27	83.485	-17.186	1021.0	-9.7
148	28	83.488	-17.186	1025.4	-8.7
149	29	83.500	-17.263	1021.6	-6.0
150	30	83.557	-17.349	1017.6	-4.5
151	31	83.575	-17.416	1020.8	-5.6

BUOY(3817) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	83.527	-17.318	1022.9	-6.8
153	2	83.493	-17.215	1024.7	-8.2
154	3	83.481	-17.135	1026.5	-5.3
155	4	83.452	-16.951	1020.6	-3.2
156	5	83.433	-16.894	1021.2	-2.7
157	6	83.413	-16.807	1028.3	-4.4
158	7	83.417	-16.854	1035.0	-2.4
159	8	83.414	-16.838	1029.9	-6.0
160	9	83.412	-16.842	1036.8	-2.2
161	10	83.411	-16.839	1034.1	-3.0
162	11	83.410	-16.830	1031.4	-.4
163	12	83.410	-16.833	1029.6	-1.5
164	13	83.408	-16.830	1025.9	-.1
165	14	83.382	-16.744	1022.8	.4
166	15	83.378	-16.692	1014.3	1.3
167	16	83.330	-16.517	1015.7	-.3
168	17	83.224	-16.128	1017.7	-.9
169	18	83.204	-16.084	1025.2	.2
170	19	83.201	-16.041	1022.4	-1.0
171	20	83.201	-16.047	1020.5	-.7
172	21	83.201	-16.053	1016.8	-.4
173	22	83.199	-16.057	1017.3	.3
174	23	83.200	-16.053	1017.4	.2
175	24	83.199	-16.058	1017.8	-.4
176	25	83.199	-16.072	1011.6	-.9
177	26	83.200	-16.060	1009.5	-.5
178	27	83.193	-15.799	1009.1	.6
179	28	83.183	-15.613	1007.0	3.4
180	29	83.159	-15.504	1010.6	2.1
181	30	83.157*	-15.321	1000.0*	2.8*

BUOY(3817) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	83.078*	-14.655	1006.7*	-.3*
183	2	82.979	-14.055	1008.9	.4
184	3	82.950	-14.026	1012.7	.1
185	4	82.874	-13.864	1012.7	-.3
186	5	82.851	-13.802	1014.5	-.2
187	6	82.851	-13.799	1009.0	2.8
188	7	82.852	-13.798	1011.1	4.5
189	8	82.853	-13.790	1012.6	4.4
190	9	82.850	-13.805	1016.4	3.8
191	10	82.852	-13.800	1019.9	1.4
192	11	82.851	-13.787	1020.1	.3
193	12	82.848	-13.778	1012.3	.5
194	13	82.801	-13.551	1008.8	1.4
195	14	82.715	-13.119	1005.4	1.1
196	15	82.644	-12.703	1003.0	1.4
197	16	82.574	-12.262	1006.4	.9
198	17	82.529	-12.011	1008.2	2.3
199	18	82.507	-11.865	1000.4	1.5
200	19	82.513	-11.702	1002.8	-.4
201	20	82.537	-11.567	1001.1	.5
202	21	82.580	-11.389	1004.0	.7
203	22	82.564	-11.372	1007.2	-.4
204	23	82.566	-11.395	1008.7	-.7
205	24	82.488	-11.609	1000.1	.3
206	25	82.433	-11.414	1000.5	.8
207	26	82.442	-11.191	999.3	-.2
208	27	82.495	-11.012	1006.4	.7
209	28	82.452	-11.428	1004.2	.2
210	29	82.387	-11.314	999.8	.3
211	30	82.298	-10.969	1004.7	.3
212	31	82.244	-10.692	1005.9	1.0

BUOY(3817) AUG. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
213	1	82.254	-10.531	1008.6	-.7
214	2	82.271	-10.383	1005.7	.2
215	3	82.159	-10.138	1017.9	.8
216	4	82.083	-9.956	1023.0	2.6
217	5	82.068	-9.811	1021.4	-.7
218	6	82.113	-9.355	1014.3	-.2
219	7	82.112	-9.210	1010.4	.7
220	8	82.108	-9.040	1008.8	-.1
221	9	82.142	-8.662	1011.1	-.3
222	10	82.156	-8.403	1013.9	.1
223	11	82.141	-8.252	1014.6	-.7
224	12	82.098	-8.245	1013.0	-.1
225	13	82.057	-8.219	1019.6	.2
226	14	82.015	-8.388	1022.1	-.3
227	15	81.995	-8.408	1015.2	-.2
228	16	81.952	-8.285	1015.4	-.0
229	17	81.885	-8.198	1017.1	1.6
230	18	81.817	-8.127	1022.0	-.7
231	19	81.793	-7.895	1011.2	-1.1
232	20	81.755	-7.275	1005.1	-2.3
233	21	81.631	-7.259	1011.0	-1.5
234	22	81.537	-7.174	1012.5	-1.5
235	23	81.463	-7.053	1010.7	-.9
236	24	81.389	-6.931	1009.6	-1.7
237	25	81.293	-7.086	1013.8	-2.2
238	26	81.236	-7.098	1008.7	-3.0
239	27	81.199	-7.015	1003.1	-3.2
240	28	81.090	-7.276	1003.1	-3.4
241	29	80.959	-7.314	1006.9	-5.4
242	30	80.878	-7.195	1007.2	-4.0
243	31	80.818	-7.021	1004.0	-4.4

BUOY(3817) SEPT 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
244	1	80.815	-6.917	1010.1	-3.0
245	2	80.804	-6.939	1017.5	-2.7
246	3	80.707	-7.106	1020.5	-5.3
247	4	80.623	-7.226	1022.1	-5.2
248	5	80.567	-7.193	1017.8	-4.7
249	6	80.491	-7.163	1012.5	-3.5
250	7	80.435	-6.897	1008.8	-5.4
251	8	80.384	-6.729	1007.7	-5.2
252	9	80.321	-6.734	1007.8	-7.6
253	10	80.243	-6.491	1002.9	-5.8
254	11	80.195	-6.234	1000.0	-7.0
255	12	80.111	-6.159	1006.9	-9.4
256	13	80.017	-6.064	1006.8	-8.7
257	14	79.955	-5.710	1000.6	-10.1
258	15	79.902	-5.576	999.5	-11.4
259	16	79.855	-5.317	999.4	-5.4
260	17	79.782	-5.266	999.1	-4.3
261	18	79.591	-5.872	997.8	-8.8
262	19	79.343	-6.178	999.5	-7.4
263	20	79.172	-6.169	1006.4	-6.4
264	21	79.071	-5.985	1006.9	-11.6
265	22	78.968	-5.830	1006.6	-13.6
266	23	78.860	-6.190	1010.4	-8.0
267	24	78.722	-6.735	1020.2	-10.6
268	25	78.709	-6.698	1012.6	-7.7
269	26	78.680	-6.571	1013.9	-13.5
270	27	78.643	-6.684	1021.7	-17.3
271	28	78.608	-7.078	1027.9	-15.3
272	29	78.528	-7.490	1026.2	-8.2
273	30	78.520	-7.731	1022.1	.1

BUOY(3817) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1	78.558	-7.978	1015.2	.3
275	2	78.598	-8.068	1012.9	.1
276	3	78.598	-8.592	995.9	.2
277	4	78.503	-8.849	1005.6	-3.3
278	5	78.356	-9.136	1019.1	-7.9
279	6	78.323	-9.246	1017.5	-8.6
280	7	78.332	-9.285	1005.8	-6.1
281	8	78.260	-9.558	1013.5	-12.4
282	9	78.151	-9.955	1024.8	-14.3
283	10	78.109	-9.936	1018.9	-16.5
284	11	78.049	-10.147	1022.1	-17.1
285	12			1020.9	-21.5
286	13	77.974*	-10.202	1019.0	-16.9
287	14	77.945	-10.321	1014.7	-14.0
288	15	77.892	-10.259	1019.3	-20.5
289	16	77.809*	-10.248	1021.9	-14.8
290	17			1024.0	-20.4
291	18	77.748	-10.186	1024.8	-17.1
292	19	77.714	-10.241	1016.9	-17.3
293	20			1003.9	-4.8
294	21	77.658	-10.615	1004.3	-4.8
295	22	77.545	-11.027	1006.0	-8.8
296	23	77.437	-11.332	998.5	-3.2
297	24	77.311	-11.609	1001.0	-8.5
298	25	77.219	-11.737	1009.2	-5.0
299	26	77.154	-11.863	1018.0	-6.8
300	27	77.084	-12.053	1018.1	-9.5
301	28	76.956	-12.317	1025.3	-15.0
302	29	76.862	-12.820	1010.6	-6.7
303	30	76.769	-13.478	1001.8	-6.9
304	31	76.625	-13.803	1021.9	-17.5

BUOY(3817) NOV. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
305	1	76.565	-13.795	1010.2	-23.7
306	2	76.500	-13.909	1012.1	-21.4
307	3	76.421	-14.109	1026.8	-24.2
308	4	76.411	-14.137	1013.4	-18.6
309	5	76.325	-14.180	1010.5	-20.1
310	6	76.237	-14.428	994.6	-16.7
311	7	76.030	-14.492	997.6	-18.1
312	8	75.936	-14.336	995.1	-20.2
313	9	75.843	-14.361	993.3	-25.0
314	10			989.2	-23.6
315	11	75.649*	-14.488	993.0	-22.5
316	12			1002.2	-24.8
317	13			1004.2	-25.6
318	14			1005.1	-25.2
319	15			995.9	-23.5
320	16	74.751	-15.824	991.7	-16.6
321	17	74.166	-16.951	1011.5	-13.7
322	18	73.807	-17.787	1015.4	-14.3
323	19	73.313	-18.129	1010.7	-13.8
324	20	72.772	-18.396	1010.8	-15.8
325	21	72.154	-19.318	1006.5	-17.5
326	22	71.665	-19.487	1003.6	-15.1
327	23	71.278	-20.391	1008.4	-13.6
328	24	70.931	-20.248	1009.9	-16.4
329	25	70.620	-19.585	1016.7	-15.1
330	26	70.354	-18.906	1017.9	-17.4
331	27	70.008	-18.639	1005.4	-4.7
332	28	69.785	-18.938	1003.6	-2.6
333	29	69.750	-19.683	983.0	-2.0
334	30	69.813	-19.905	990.8	-3.3

BUOY(3817) DEC. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1	69.877	-20.115	985.7	-5.4
336	2	69.630	-20.941	998.9	-10.3
337	3	69.541	-22.161	1009.1	-7.4
338	4	69.430	-22.735	1002.2	-10.3
339	5	68.942*	-23.591	1007.8	-10.3
340	6	68.900*	-24.343	1012.9	-11.7
341	7	68.927	-24.569	1005.1	-7.6
342	8	68.868	-24.975	1001.2	-10.0
343	9	68.766	-25.388	1003.3	-11.4
344	10	68.759*	-25.410	1010.1	-12.4
345	11	68.757*	-25.405	1019.4	-16.3
346	12	68.762	-25.398	1019.3	-20.8
347	13	68.759	-25.361	1019.9	-21.3
348	14	68.732	-25.486	1001.0	-17.7
349	15	68.729*	-25.454	997.5	-23.6
350	16			1004.9	-23.8
351	17	68.618*	-25.358	1008.0	-25.4
352	18	68.505	-25.598	1007.5	-23.4
353	19			998.1	-19.5
354	20	68.275*	-25.931	1009.1	-25.9
355	21	68.064*	-25.927	1005.2	-21.7
356	22	67.773*	-26.073	1005.3	-15.9
357	23	67.411*	-26.482	987.4	-12.0
358	24	67.284	-27.606	987.7	-11.4
359	25	67.324	-28.998	974.4	-10.8
360	26	67.334	-29.115	990.4	-9.0
361	27	67.346	-29.342	1005.4	-12.4
362	28	67.343	-30.146	982.4	-10.4
363	29	67.352	-30.788	985.5	-8.1
364	30			984.6*	-10.6*
365	31				

Buoy 3818

BUOY(3818) DEC.	82	LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1				
336	2				
337	3				
338	4				
339	5				
340	6				
341	7				
342	8				
343	9				
344	10	86.121*	-88.731	1025.3*	-31.3*
345	11	86.119	-88.683	1030.9	-30.6
346	12	86.103	-88.402	1029.0	-29.4
347	13	86.096	-88.303	1021.7	-26.5
348	14	86.101	-88.202	1002.5	-26.4
349	15	86.104	-88.262	1003.1	-23.0
350	16	86.103	-88.261	1015.4	-29.8
351	17	86.103	-88.266	1011.2	-30.7
352	18	86.102	-88.227	1006.0	-30.1
353	19	86.101	-88.270	1005.8	-31.9
354	20	86.102	-88.256	1015.7	-37.4
355	21	86.102	-88.253	1014.1	-36.9
356	22	86.090	-88.525	1010.5	-27.9
357	23	86.098	-88.669	1011.5	-26.5
358	24	86.087	-88.723	1018.3	-27.9
359	25	86.079	-88.636	1018.1	-27.4
360	26	86.080	-88.634	1017.1	-26.9
361	27	86.080	-88.632	1027.4	-29.8
362	28	86.080	-88.621	1032.2	-31.6
363	29	86.081	-88.667	1027.1	-28.9
364	30			1019.9*	-24.7*
365	31				

BUOY(3819) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1				
122	2				
123	3				
124	4				
125	5				
126	6				
127	7				
128	8				
129	9				
130	10				
131	11				
132	12	87.713*	50.377		
133	13	87.710	50.710		
134	14	87.693	51.005		
135	15	87.690	50.891		
136	16	87.674	50.207		
137	17	87.627	49.727		
138	18	87.574	48.970		
139	19	87.511	47.767		
140	20	87.411	46.844		
141	21	87.339	45.701		
142	22	87.306	44.213		
143	23	87.269	43.573		
144	24	87.262	43.251		
145	25	87.254	42.569		
146	26	87.248	41.771		
147	27	87.172	40.872		
148	28	87.090	39.924		
149	29	87.044	39.378		
150	30	87.035	39.472		
151	31	87.037	39.725		

BUOY(3819) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	87.035	39.638		
153	2	87.012	39.179		
154	3	86.967	38.774		
155	4	86.920	38.728		
156	5	86.894	37.769		
157	6	86.886	36.429		
158	7	86.858	35.439		
159	8	86.793	34.883		
160	9	86.701	34.317		
161	10	86.644	33.470		
162	11	86.592	32.894	1030.5	.6
163	12	86.553	32.305	1026.0	.4
164	13	86.528	32.116	1023.9	1.8
165	14	86.481	32.119	1014.6	1.1
166	15	86.421	31.286	1009.7	.2
167	16	86.320	30.098	1001.9	.3
168	17	86.315	28.597	1017.1	2.1
169	18	86.296	27.699	1020.1	2.6
170	19	86.276	26.676	1021.5	2.0
171	20	86.245	26.192	1015.8	2.8
172	21	86.232	25.756	1015.0	3.3
173	22	86.220	25.360	1015.9	3.5
174	23	86.196	24.972	1016.5	3.4
175	24	86.166	24.915	1019.8	4.2
176	25	86.167	24.834	1015.3	2.4
177	26	86.157	24.709	1004.1	2.6
178	27	86.186	26.162	1008.3	1.1
179	28	86.216	27.444	1002.9	1.0
180	29	86.175	28.100	1006.1	1.9
181	30	86.156*	28.798	999.0*	1.8*

BUOY(3819) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	86.176*	29.454	1002.8*	2.7*
183	2	86.212	28.900	1006.7	2.9
184	3	86.185	27.289	1004.2	1.2
185	4	86.126	25.286	1003.8	1.5
186	5	86.050	24.215	1006.5	2.2
187	6	85.970	24.053	1007.3	2.5
188	7	85.881	24.082	1005.1	2.6
189	8	85.791	23.966	1005.6	2.0
190	9	85.716	23.674	1011.1	2.8
191	10	85.637	23.404	1012.9	2.3
192	11	85.582	22.900	1015.2	2.1
193	12	85.530	22.532	1003.9	2.5
194	13	85.441	21.839	996.0	1.9
195	14	85.327	21.488	990.2	1.8
196	15	85.261	21.002	995.3	2.3
197	16	85.227	21.171	993.8	2.6
198	17	85.119	21.087	999.5	1.1
199	18	85.015	21.847	1000.4	.9
200	19	84.993	22.429	1005.5	1.6
201	20	85.018	22.744	1007.3	1.6
202	21	85.063	23.010	1008.2	1.8
203	22	85.087	23.124	1010.6	2.0
204	23	85.103	22.790	1010.0	2.5
205	24	85.152	22.228	1003.6	2.0
206	25	85.225	22.223	1001.5	1.7
207	26	85.250	22.692	1005.5	1.8
208	27	85.286	23.183	1012.4	2.1
209	28	85.331	22.561	1008.1	1.9
210	29	85.395	21.922	1003.2	1.8
211	30	85.408	21.270	997.4	2.3
212	31	85.384	21.302	1000.5	2.2

BUOY(3819) AUG. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
213	1	85.345	21.401	1007.3	2.0
214	2	85.324	21.479	1010.0	1.3
215	3	85.345	21.588	1010.5	1.8
216	4	85.330	21.189	1018.4	1.8
217	5	85.296	21.048	1021.2	1.8
218	6	85.270	21.215	1015.4	2.4
219	7	85.226	21.346	1013.2	2.6
220	8	85.207	21.390	1014.3	3.9
221	9	85.206	21.293	1015.8	4.2
222	10	85.238	21.450	1020.1	1.8
223	11	85.286	21.400	1019.0	1.2
224	12	85.338	21.109	1019.3	1.6
225	13	85.385	20.953	1025.1	1.2
226	14	85.414	20.802	1028.3	2.5
227	15	85.455	20.933	1021.1	2.4
228	16	85.500	21.458	1016.2	1.1
229	17	85.485	21.298	1015.2	2.1
230	18	85.423	21.017	1017.7	-.3
231	19	85.367	20.947	1013.0	1.0
232	20	85.358	21.111	1008.3	1.5
233	21	85.362	20.787	1008.0	1.1
234	22	85.347	19.992	1008.5	1.1
235	23	85.322	19.416	1006.5	.5
236	24	85.310	18.834	1008.7	-.3
237	25	85.280	18.377	1009.3	-.4
238	26	85.276	18.257	1009.4	-.7
239	27	85.273	18.110	1007.1	-1.4
240	28	85.313	16.982	1006.5	-1.5
241	29	85.304	16.607	1008.6	-1.0
242	30	85.259	15.701	1004.4	-2.3
243	31	85.218	15.443	1000.3	-5.7

BUOY(3819) SEPT 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
244	1	85.168	15.354	1009.1	-7.8
245	2	85.121	15.523	1016.5	-6.4
246	3	85.085	15.804	1016.6	-4.3
247	4	85.029	16.380	1014.7	-3.2
248	5	85.000	16.313	1012.1	-2.7
249	6	84.973	16.254	1002.1	-2.7
250	7	84.938	16.329	996.7	-4.8
251	8	84.874	16.217	1001.7	-7.2
252	9	84.851	16.322	1000.2	-10.9
253	10	84.876	16.282	995.4	-9.5
254	11	84.921	16.291	1001.0	-7.8
255	12	84.915	15.870	998.7	-8.2
256	13	84.752	16.479	986.9	-9.3
257	14	84.741	18.440	994.6	-9.1
258	15	84.778	19.309	1004.4	-8.9
259	16	84.825	19.020	1000.5	-7.1
260	17	84.831	19.122	1007.1	-6.4
261	18	84.888	18.762	1001.1	-4.5
262	19	84.923	18.299	1001.8	-3.2
263	20	84.909	17.985	1003.0	-5.4
264	21	84.889	18.035	1008.3	-7.2
265	22	84.883	18.021	1014.4	-9.1
266	23	84.840	17.391	1011.0	-8.9
267	24	84.717	16.337	1009.6	-8.9
268	25	84.607	16.855	1005.4	-10.8
269	26	84.586	17.341	1005.1	-15.0
270	27	84.547	17.311	1017.7	-17.0
271	28	84.489	17.161	1025.5	-16.4
272	29	84.421	17.047	1028.8	-13.7
273	30	84.445	17.098	1025.6	-15.2

BUOY(3819) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1	84.504	17.709	1018.5	-4.3
275	2	84.528	18.216	1017.8	-4.0
276	3	84.575	18.475	1011.0	-2.4
277	4	84.655	17.843	1003.7	-2.5
278	5	84.633	17.379	1006.5	-3.9
279	6	84.577	17.197	1012.3	-6.4
280	7	84.568	17.289	1010.6	-10.0
281	8	84.572	17.641	1002.2	-8.0
282	9	84.458	17.553	1003.0	-12.3
283	10	84.263	17.585	1000.4	-13.2
284	11	84.090	17.321	1005.1	-11.7
285	12	84.061	16.800	1016.8	-8.9
286	13	84.026	16.638	1019.8	-9.0
287	14	84.009	16.541	1021.9	-10.1
288	15	84.001	16.429	1026.0	-17.0
289	16	84.003	16.268	1031.1	-21.2
290	17	84.032	16.071	1032.1	-20.7
291	18	84.082	15.713	1027.9	-20.6
292	19	84.123	15.379	1020.7	-17.3
293	20	84.130	15.113	1010.6	-15.2
294	21	84.165	15.218	1009.1	-12.3
295	22	84.121	14.921	1014.0	-13.5
296	23	84.098	14.656	1011.0	-19.4
297	24	84.115	14.200	1004.8	-13.7
298	25	84.070	14.038	1011.0	-11.8
299	26	84.001	13.651	1017.6	-16.8
300	27	83.931	13.826	1020.8	-23.8
301	28	83.864	13.757	1025.9	-26.9
302	29	83.821	13.686	1025.9	-28.0
303	30	83.818	13.480	1023.1	-28.2
304	31	83.824	13.259	1023.6	-27.4

BUOY(3819) NOV. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
305	1	83.812	12.969	1012.2	-25.6
306	2	83.733	12.434	1006.8	-23.9
307	3	83.679	11.814	1020.4	-24.4
308	4	83.642	11.650	1016.9	-25.9
309	5	83.625	11.555	1015.7	-26.1
310	6	83.673	11.207	1009.5	-22.6
311	7	83.776	9.860	1000.6	-18.3
312	8	83.794	8.437	993.1	-15.1
313	9	83.771	8.025	986.6	-13.8
314	10	83.814	6.413	982.4	-9.7
315	11	83.787	5.446	989.9	-12.2
316	12	83.806	3.979	996.6	-11.9
317	13	83.798	2.668	1006.7	-15.9
318	14	83.784	2.158	1001.5	-19.5
319	15	83.782	2.130	1002.4	-21.2
320	16	83.774	1.832	1011.3	-17.7
321	17	83.745	1.333	1027.0	-20.8
322	18	83.737	1.051	1024.2	-24.2
323	19	83.716	.633	1017.8	-24.1
324	20	83.623	-.294	1012.6	-21.8
325	21	83.506	-1.253	1007.4	-18.7
326	22	83.438	-2.110	1011.6	-15.7
327	23	83.341	-2.897	1009.3	-15.6
328	24	83.280	-3.619	1012.3	-13.6
329	25	83.178	-4.328	1017.3	-16.4
330	26	83.118	-4.876	1013.2	-15.7
331	27	83.183	-5.174	1003.9	-14.3
332	28	83.203	-5.236	1004.4	-11.8
333	29	83.263	-4.985	1003.5	-13.3
334	30	83.313	-4.512	1002.5	-11.6

BUOY(3819) DEC. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1	83.323	-4.591	992.7	-11.5
336	2	83.191	-4.943	997.0	-14.8
337	3	82.958	-5.358	1005.8	-22.3
338	4	82.845	-5.258	1010.1	-23.2
339	5	82.752	-5.385	1005.3	-21.1
340	6	82.635	-5.958	1008.1	-24.2
341	7	82.554	-6.119	1011.8	-30.2
342	8	82.467	-6.261	1016.0	-31.1
343	9	82.359	-6.578	1015.2	-28.6
344	10	82.222	-6.681	1013.6	-27.1
345	11	82.031	-6.887	1019.0	-25.5
346	12	81.821	-6.910	1016.4	-25.7
347	13	81.621	-6.887	1016.3	-22.1
348	14	81.529	-6.857	1005.0	-21.0
349	15	81.445	-6.858	1004.1	-21.2
350	16	81.251	-6.787	1007.7	-23.1
351	17	81.077	-6.612	1010.7	-25.3
352	18	80.934	-6.537	1009.6	-28.3
353	19	80.822	-6.500	1011.4	-31.4
354	20	80.688	-6.611	1011.4	-30.6
355	21			1003.4	-28.3
356	22	80.165	-6.605	997.4	-25.9
357	23	79.850	-6.840	991.1	-23.8
358	24	79.595	-6.913	1005.3	-24.2
359	25	79.415	-6.990	1015.8	-29.6
360	26	79.206	-7.593	1006.8	-27.4
361	27	78.943	-8.332	1008.6	-25.0
362	28	78.727	-8.764	1019.7	-26.2
363	29	78.566	-9.026	1021.3	-27.1
364	30	78.603*	-9.807	976.4*	-11.6*
365	31				

BUOY(3821) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1				
275	2	75.034*	-150.087	1020.5*	-13.8*
276	3	74.944	-150.071	1012.0	-12.5
277	4	74.840	-150.054	1005.6	-8.5
278	5	74.788	-150.103	1006.0	-9.3
279	6	74.761	-150.409	1009.8	-12.6
280	7	74.713	-150.737	1012.7	-14.9
281	8	74.653	-150.837	1013.4	-18.0
282	9	74.611	-150.861	1016.5	-17.6
283	10	74.605	-150.801	1017.5	-17.8
284	11	74.617	-150.802	1018.8	-14.0
285	12	74.603	-150.925	1011.6	-15.4
286	13	74.594	-150.881	1012.4	-19.4
287	14	74.581	-150.702	1020.0	-20.1
288	15	74.545	-150.555	1029.4	-18.3
289	16	74.494	-150.435	1030.3	-16.7
290	17	74.482	-150.538	1026.6	-22.6
291	18	74.491	-150.663	1022.6	-24.0
292	19			983.8	-11.7
293	20			999.7	-9.9
294	21	74.224	-150.878	1022.4	-14.5
295	22	74.133	-150.877	1025.6	-18.1
296	23	74.125	-150.967	1024.9	-15.7
297	24	74.164	-151.115	1011.9	-17.6
298	25	74.119	-151.472	992.9	-15.3
299	26	74.068	-151.892	997.9	-14.8
300	27	74.045	-152.230	1009.4	-17.3
301	28	73.968	-152.246	996.4	-19.7
302	29	73.970	-152.229	992.4	-25.1
303	30	73.994	-152.532	1006.3	-25.3
304	31	73.978	-152.800	1010.3	-26.5

BUOY(3821) NOV. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
305	1	73.934	-152.915	1020.2	-27.3
306	2	73.896	-152.952	1029.2	-27.2
307	3	73.852	-153.036	1032.4	-29.6
308	4	73.813	-153.318	1028.4	-28.5
309	5	73.751	-153.543	1029.1	-28.9
310	6	73.686	-153.605	1025.6	-25.0
311	7	73.631	-153.604	1032.8	-27.8
312	8	73.606	-153.566	1025.3	-29.6
313	9	73.574	-153.695	1021.5	-30.8
314	10	73.548	-153.729	1024.6	-31.9
315	11			1024.5	-30.7
316	12	73.564	-154.359	1026.2	-28.4
317	13	73.581	-154.887	1022.7	-27.7
318	14	73.608	-155.602	1018.1	-25.7
319	15	73.671	-156.133	1025.0	-24.9
320	16	73.735	-156.538	1025.8	-25.0
321	17	73.808	-156.889	1022.8	-24.9
322	18	73.836	-157.066	1023.4	-27.5
323	19	73.850	-157.188	1017.3	-29.0
324	20	73.879	-157.438	1023.1	-29.1
325	21	73.917	-158.068	1033.0	-30.3
326	22	73.924	-158.351	1038.5	-30.8
327	23	73.912	-158.635	1038.1	-31.2
328	24	73.889	-158.854	1036.5	-29.5
329	25	73.902	-159.226	1029.7	-27.4
330	26			1011.8	-23.9
331	27	73.841	-160.335	1005.6	-23.1
332	28			1015.2	-25.7
333	29			1011.6	-27.6
334	30	73.532	-160.843	1016.1	-26.7

BUOY(3821) DEC. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1	73.514	-160.772	1021.6	-28.2
336	2	73.546	-160.784	1021.7	-28.2
337	3	73.610	-160.771	1017.1	-24.3
338	4	73.622	-160.999	1025.5	-26.4
339	5	73.665	-161.127	1032.3	-29.7
340	6	73.709	-161.210	1031.1	-28.1
341	7	73.843	-161.665	1017.5	-21.8
342	8	73.963	-162.424	1005.7	-19.4
343	9	74.077	-163.241	1009.8	-18.9
344	10	74.139	-163.403	1027.8	-17.8
345	11	74.186	-163.570	1034.0	-18.4
346	12	74.234	-163.750	1032.8	-20.5
347	13	74.212	-164.034	1023.2	-25.4
348	14	74.167	-164.466	1021.9	-24.2
349	15	74.111	-164.575	1021.2	-23.0
350	16	74.066	-164.612	1022.3	-25.0
351	17	74.035	-164.651	1026.7	-27.2
352	18	74.021	-164.806	1026.4	-28.6
353	19	74.037	-165.049	1019.7	-28.1
354	20	74.040	-165.469	1016.6	-28.2
355	21	74.001	-165.806	1018.1	-28.2
356	22	73.944	-166.062	1028.8	-29.5
357	23	73.900	-166.069	1028.7	-30.7
358	24	73.870	-166.095	1031.4	-30.6
359	25	73.852	-166.205	1032.2	-29.6
360	26	73.868	-166.464	1031.9	-28.5
361	27	73.896	-166.883	1026.7	-26.7
362	28	73.979	-167.634	1012.9	-24.5
363	29	74.042	-168.160	1013.5	-20.9
364	30			1003.3*	-18.1*
365	31				

BUOY(3822) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1				
122	2				
123	3				
124	4				
125	5				
126	6				
127	7				
128	8				
129	9				
130	10				
131	11				
132	12				
133	13				
134	14				
135	15				
136	16				
137	17				
138	18				
139	19				
140	20				
141	21				
142	22				
143	23				
144	24				
145	25				
146	26				
147	27				
148	28				
149	29	82.959	-154.255		
150	30	83.042	-154.278		
151	31	83.110	-154.552		

BUOY(3822) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	83.128	-154.461		
153	2	83.134	-154.073		
154	3	83.194	-153.635		
155	4	83.221	-153.236		
156	5	83.226	-153.037		
157	6	83.259	-152.959		
158	7	83.337	-153.036		
159	8	83.451	-153.157		
160	9	83.529	-152.968		
161	10	83.583	-152.947		
162	11	83.582	-152.952	1028.1	4.1
163	12	83.592	-153.063	1023.0	2.4
164	13	83.589	-153.344	1006.2	1.8
165	14	83.667	-153.408	1008.6	1.0
166	15	83.659	-153.123	1015.5	1.7
167	16	83.598	-152.572	1024.5	1.7
168	17	83.548	-152.136	1033.1	2.4
169	18	83.547	-151.986	1034.5	5.0
170	19	83.556	-151.850	1030.8	6.5
171	20	83.564	-151.638	1028.5	6.1
172	21	83.571	-151.394	1025.0	5.2
173	22	83.585	-151.027	1022.8	5.9
174	23	83.607	-150.574	1017.8	5.3
175	24	83.664	-150.658	1006.0	3.1
176	25	83.733	-151.313	1001.0	2.0
177	26	83.758	-151.949	1003.3	3.0
178	27	83.735	-151.976	999.0	4.4
179	28	83.708	-151.722	1003.9	3.6
180	29	83.741	-151.741	992.4	2.3
181	30				

BUOY(3822) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	83.707*	-150.716	1011.0*	2.7*
183	2	83.667	-150.826	1019.2	3.4
184	3	83.667	-150.616	1024.6	5.0
185	4	83.717	-150.956	1013.2	2.6
186	5	83.750	-150.902	1005.7	2.5
187	6	83.671	-150.395	1016.5	2.2
188	7	83.631	-149.667	1018.4	2.9
189	8	83.613	-149.068	1018.4	4.7
190	9	83.611	-148.430	1022.4	4.5
191	10	83.608	-147.814	1025.3	4.4
192	11	83.624	-147.327	1026.9	6.0
193	12	83.661	-146.661	1019.3	4.1
194	13	83.715	-145.948	1012.0	3.0
195	14	83.743	-145.378	1011.3	2.2
196	15	83.756	-144.517	1008.4	1.9
197	16	83.711	-144.328	1012.5	2.7
198	17	83.742	-143.255	991.4	1.3
199	18	83.637	-142.066	989.7	1.6
200	19	83.538	-141.500	993.1	2.0
201	20	83.502	-141.535	996.9	2.1
202	21	83.410	-141.765	994.7	1.4
203	22	83.413	-142.097	1000.6	2.1
204	23	83.392	-142.304	1004.0	3.1
205	24	83.399	-142.771	1013.9	2.4
206	25	83.379	-142.578	1009.5	2.9
207	26	83.324	-142.136	1003.6	1.7
208	27	83.271	-141.987	1000.2	1.8
209	28	83.234	-142.387	1008.3	1.9
210	29	83.226	-142.709	1018.8	1.9
211	30	83.195	-142.537	1017.5	1.7
212	31	83.201	-141.803	1001.2	.7

BUOY(3822) AUG. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
213	1	83.167	-141.747	1000.7	1.7
214	2	83.179	-141.589	996.6	2.7
215	3	83.178	-141.611	1005.8	1.9
216	4	83.147	-141.877	1007.1	.6
217	5	83.082	-142.155	1008.1	1.4
218	6	83.040	-142.016	1007.8	1.7
219	7	83.011	-141.710	1007.3	.8
220	8	82.919	-141.432	1009.7	.1
221	9	82.823	-141.342	1008.9	-.4
222	10	82.800	-141.327	1010.7	.2
223	11	82.812	-141.292	1017.8	-.7
224	12	82.803	-141.106	1020.8	-.8
225	13	82.826	-140.978	1022.1	-2.2
226	14	82.896	-141.235	1011.9	-2.9
227	15	82.988	-142.043	998.5	-2.4
228	16	83.057	-142.152	993.9	-.5
229	17	83.143	-141.831	997.9	-.2
230	18	83.197	-141.612	997.8	-.6
231	19	83.213	-141.305	996.2	-1.3
232	20	83.179	-141.570	1002.9	-2.0
233	21	83.144	-141.724	1012.2	-2.4
234	22	83.133	-141.807	1019.3	-3.2
235	23	83.115	-141.546	1016.6	-1.4
236	24	83.088	-141.265	1019.6	-2.6
237	25	83.122	-140.749	1016.4	-2.7
238	26	83.191	-139.961	1009.2	-.6
239	27	83.211	-139.557	1013.0	1.0
240	28	83.225	-139.445	1019.1	-.7
241	29	83.289	-139.013	1011.3	-.4
242	30	83.327	-138.021	1002.7	-.2
243	31	83.313	-137.226	1002.1	-.8

BUOY(3822) SEPT 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
244	1	83.336	-136.819	1002.6	-1.0
245	2	83.313	-136.575	1014.3	-.2
246	3	83.338	-136.306	1018.0	-.8
247	4	83.385	-135.999	1020.3	-1.6
248	5	83.434	-135.661	1017.8	-2.2
249	6	83.489	-135.037	1009.6	-2.6
250	7	83.501	-134.541	1009.6	-4.0
251	8	83.504	-134.384	1011.6	-3.8
252	9	83.511	-133.942	1010.3	-3.3
253	10	83.497	-133.045	1000.8	-2.0
254	11	83.440	-132.962	1014.4	-4.3
255	12	83.418	-132.920	1018.6	-6.5
256	13	83.430	-132.794	1008.7	-4.9
257	14	83.447	-132.387	990.3	-3.7
258	15	83.409	-132.300	993.2	-5.8
259	16	83.421	-132.206	998.5	-6.0
260	17	83.438	-132.301	996.8	-6.3
261	18	83.358	-133.227	994.9	-8.4
262	19	83.230	-133.637	1004.9	-8.8
263	20	83.177	-133.473	1012.8	-8.0
264	21	83.162	-132.700	998.3	-5.5
265	22	83.097	-132.752	1013.3	-4.8
266	23	83.089	-132.735	1022.1	-9.0
267	24	83.099	-132.581	1023.3	-6.7
268	25	83.107	-132.026	1019.3	-5.3
269	26	83.113	-131.344	1016.8	-5.5
270	27	83.120	-131.231	1024.2	-8.5
271	28	83.126	-131.209	1029.2	-8.2
272	29	83.141	-131.128	1027.6	-7.3
273	30	83.120	-131.147	1029.1	-6.3

BUOY(3822) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1	83.035	-131.308	1018.6	-6.0
275	2	82.955	-131.345	1010.0	-7.7
276	3	82.870	-131.464	1000.1	-8.2
277	4	82.864	-131.808	1007.5	-7.8
278	5	82.889	-132.053	1018.2	-10.2
279	6	82.895	-132.099	1016.9	-10.9
280	7	82.882	-131.956	1014.1	-11.2
281	8	82.909	-131.546	1015.5	-12.7
282	9	82.971	-131.138	1016.6	-12.5
283	10	83.018	-130.975	1015.6	-12.4
284	11	83.023	-131.016	1017.8	-13.6
285	12	83.014	-131.137	1018.4	-11.5
286	13	83.004	-131.968	1006.1	-11.7
287	14	82.996	-132.327	1004.4	-11.6
288	15	82.971	-132.476	1011.9	-12.8
289	16	82.954	-132.548	1018.6	-14.0
290	17	82.918	-132.685	1019.6	-12.4
291	18	82.851	-132.709	1016.5	-13.2
292	19	82.833	-132.554	1011.0	-15.3
293	20	82.826	-132.435	1009.6	-16.1
294	21	82.779	-132.586	1015.7	-13.2
295	22	82.681	-132.388	1012.9	-10.5
296	23	82.609	-132.067	1014.5	-13.3
297	24	82.620	-131.893	1014.6	-17.6
298	25	82.632	-131.797	1015.1	-18.2
299	26	82.661	-131.696	1018.0	-16.8
300	27	82.679	-131.697	1023.1	-17.3
301	28	82.709	-132.332	1017.6	-15.5
302	29	82.724	-133.666	1015.0	-16.5
303	30	82.703	-134.597	1019.1	-19.4
304	31	82.648	-134.965	1013.9	-21.6

BUOY(3822) NOV. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
305	1	82.567	-135.234	1012.5	-23.6
306	2	82.482	-135.267	1012.6	-22.7
307	3	82.399	-135.182	1024.9	-21.8
308	4	82.349	-134.909	1022.3	-21.5
309	5	82.308*	-134.520	1009.5	-18.5
310	6	82.259*	-134.598	1019.4	-18.3
311	7	82.209	-134.634	1023.3	-20.4
312	8	82.147	-134.699	1020.5	-19.8
313	9	82.089	-134.720	1015.5	-18.8
314	10	82.019	-134.759	1019.6	-20.3
315	11	81.951	-134.733	1025.9	-22.0
316	12	81.879	-134.693	1027.0	-21.7
317	13	81.808*	-134.820	1034.3	-21.6
318	14	81.764*	-134.933	1033.3	-21.6
319	15	81.695	-134.676	1021.9	-20.1
320	16	81.593	-134.505	1023.7	-19.3
321	17	81.553	-134.499	1024.3	-22.2
322	18	81.527	-134.530	1016.2	-23.2
323	19	81.519	-134.621	1023.5	-24.4
324	20	81.506	-134.598	1031.0	-26.6
325	21	81.468	-134.576	1033.2	-26.3
326	22	81.384	-134.634	1034.2	-23.7
327	23	81.300	-134.781	1034.6	-22.3
328	24	81.214	-134.835	1037.8	-22.9
329	25	81.167	-134.823	1040.5	-23.7
330	26	81.132	-134.692	1026.0	-23.6
331	27	81.099	-134.538	1011.9	-22.6
332	28	81.096	-134.522	1005.2	-22.2
333	29	81.097*	-134.523	1003.2	-24.8
334	30	81.096*	-134.524	1002.8	-25.3

BUOY(3822) DEC. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1	81.095	-134.513	1008.4	-24.6
336	2	81.095	-134.523	1015.7	-23.4
337	3	81.105	-134.465	1024.1	-23.0
338	4	81.107	-134.452	1025.7	-25.2
339	5	81.107	-134.458	1029.2	-27.2
340	6	81.110	-134.443	1029.6	-27.7
341	7	81.123	-134.445	1030.3	-26.2
342	8	81.129	-134.413	1030.7	-21.2
343	9	81.146	-134.387	1026.0	-18.3
344	10	81.140	-134.374	1029.7	-18.8
345	11	81.139	-134.422	1038.4	-24.3
346	12	81.130	-134.407	1035.6	-26.0
347	13	81.088	-134.346	1025.7	-25.6
348	14	81.041	-134.130	1012.6	-21.4
349	15	80.979	-133.922	1010.7	-18.8
350	16	80.939	-133.885	1013.3	-20.9
351	17	80.878	-133.877	1022.1	-25.7
352	18	80.809	-133.683	1018.4	-23.1
353	19	80.745	-133.472	1016.5	-22.5
354	20	80.732	-133.356	1016.3	-22.2
355	21	80.731	-133.348	1024.5	-27.0
356	22	80.707*	-133.303	1009.2	-26.3
357	23	80.632*	-133.520	1017.6	-26.4
358	24	80.556	-133.577	1026.1	-27.3
359	25	80.525*	-133.507	1028.3	-27.0
360	26	80.508*	-133.397	1026.3	-26.1
361	27	80.440	-133.433	1032.8	-28.7
362	28	80.423	-133.431	1037.5	-30.2
363	29	80.417*	-133.423	1032.8	-29.7
364	30			1025.6*	-27.7*
365	31				

BUOY(3823) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1				
122	2				
123	3				
124	4				
125	5				
126	6				
127	7				
128	8				
129	9				
130	10				
131	11				
132	12				
133	13				
134	14				
135	15				
136	16				
137	17				
138	18				
139	19				
140	20				
141	21				
142	22				
143	23				
144	24				
145	25				
146	26				
147	27				
148	28				
149	29	73.881	-133.049		
150	30	73.902*	-133.041	1009.0*	-4.3*
151	31	73.926	-132.982	1000.5	.8

BUOY(3823) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	73.903	-132.889	996.3	3.1
153	2	73.884	-132.923	987.8	3.5
154	3	73.919	-133.051	1003.9	1.8
155	4	73.900	-133.235	1017.5	-1.6
156	5	73.882	-133.393	1025.3	-1.7
157	6	73.860	-133.485	1021.9*	-2.1*
158	7				
159	8	73.967	-133.846		
160	9	74.016	-134.035		
161	10			1024.6*	.2*
162	11	73.966	-134.389	1013.3	-.2
163	12	73.978	-134.537	1011.5	1.7
164	13	73.972	-134.657	1009.3	3.4
165	14	73.922	-134.781	1019.4	2.7
166	15	73.883	-134.938	1026.0	4.0
167	16	73.850*	-135.223	1031.0	2.7
168	17	73.810	-135.640	1030.7	2.3
169	18	73.776	-135.916	1030.7	2.6
170	19	73.748	-136.076	1026.0	2.6
171	20	73.718	-136.237	1023.0	2.1
172	21	73.706	-136.489	1022.9	1.9
173	22	73.709	-136.700	1026.7	2.1
174	23	73.693	-136.821	1028.9	5.5
175	24			1020.1	5.4
176	25	73.674	-136.814	1015.9	4.6
177	26	73.646	-136.741	1014.6	3.3
178	27	73.604	-136.708	1014.5	4.5
179	28	73.615	-136.856	1005.0	5.1
180	29	73.637*	-136.918	999.3	5.6
181	30				

BUOY(3823) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	73.562*	-137.077	1011.1*	2.7*
183	2	73.598	-137.326	1012.6	3.8
184	3	73.626*	-137.469	1013.4	3.3
185	4	73.589	-137.654	1013.2	2.9
186	5	73.546	-137.899	1012.2	3.3
187	6	73.520	-138.304	1014.1	2.9
188	7	73.533	-138.710	1017.9	2.7
189	8	73.533	-138.996	1017.1	2.8
190	9	73.504	-139.322	1021.1	2.6
191	10	73.487	-139.589	1023.8	2.6
192	11	73.495	-139.830	1023.3	2.6
193	12	73.484	-140.082	1024.2	2.6
194	13	73.480	-140.305	1021.1	2.2
195	14	73.488	-140.525	1020.4	3.0
196	15	73.506	-140.769	1015.1	3.3
197	16			1007.6	3.4
198	17	73.476	-141.299	1006.6	2.4
199	18	73.436	-141.415	1009.9	2.5
200	19	73.369	-141.566	1013.1	1.0
201	20			1003.8	1.0
202	21	73.248*	-141.592	1003.7	1.0
203	22				
204	23				
205	24				
206	25				
207	26				
208	27				
209	28				
210	29				
211	30				
212	31				

BUOY(3824) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1				
275	2	76.800*	-135.146	1014.5*	-9.8*
276	3	76.720	-135.142	1005.8	-11.1
277	4	76.666	-135.110	1000.1	-11.2
278	5	76.688	-135.310	1007.7	-12.1
279	6	76.703	-135.745	1010.3	-13.5
280	7	76.665	-136.162	1010.2	-14.1
281	8	76.676	-136.402	1013.3	-11.9
282	9	76.712*	-136.467	1013.4	-10.2
283	10			1013.1	-12.1
284	11			1019.2	-19.4
285	12	76.616	-136.684	1003.4	-17.6
286	13	76.569	-136.430	1008.9	-19.0
287	14	76.562	-136.022	1013.9	-20.5
288	15	76.510	-135.744	1021.1	-18.4
289	16	76.432	-135.497	1023.5	-18.8
290	17	76.355	-135.369	1021.1	-21.5
291	18	76.286*	-135.253	1023.4	-23.3
292	19	76.314*	-135.329	1006.0	-23.5
293	20	76.489	-135.893	1000.7	-15.6
294	21	76.459	-136.372	1015.3	-19.1
295	22	76.385	-136.537	1022.8	-22.3
296	23	76.315	-136.508	1024.5	-16.4
297	24	76.306	-136.540	1016.9	-18.2
298	25	76.395	-137.103	1003.6	-15.7
299	26	76.465	-137.587	1007.4	-16.7
300	27			1005.5	-16.3
301	28	76.470	-137.965	993.0	-15.2
302	29	76.484	-137.895	999.5	-19.0
303	30	76.487	-138.020	1008.4	-25.6
304	31	76.466	-138.191	1008.4	-25.8

BUOY(3824) NOV. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
305	1	76.417	-138.242	1014.0	-24.3
306	2	76.352	-138.256	1023.4	-28.2
307	3	76.281	-138.158	1026.2	-28.3
308	4	76.228	-138.213	1029.5	-29.8
309	5			1019.8	-27.9
310	6	76.087	-137.911	1016.4	-21.3
311	7	76.010	-137.944	1025.7	-25.9
312	8	75.960	-137.872	1021.7	-27.3
313	9			1017.7	-29.3
314	10	75.887	-137.904	1019.9	-27.4
315	11	75.828	-137.986	1025.7	-26.6
316	12	75.761	-138.137	1029.0	-28.0
317	13	75.688	-138.303	1026.5	-27.3
318	14	75.653	-138.608	1027.2	-27.9
319	15	75.605	-138.836	1030.5	-28.2
320	16	75.517	-138.918	1027.2	-26.9
321	17	75.448	-139.017	1023.6	-27.0
322	18	75.416	-139.000	1019.8	-27.8
323	19	75.346	-138.954	1015.2	-27.2
324	20			1029.4	-32.0
325	21	75.308	-139.215	1032.4	-33.2
326	22	75.267	-139.283	1037.5	-33.9
327	23	75.179	-139.370	1032.4	-29.1
328	24	75.135	-139.509	1037.0	-27.2
329	25	75.108	-139.687	1035.9	-28.8
330	26	75.111	-139.996	1021.8	-28.3
331	27	75.140	-140.429	1012.3	-27.0
332	28	75.134	-140.795	1006.4	-26.9
333	29	75.090	-140.967	1002.8	-26.0
334	30			1004.2	-26.1

BUOY(3824) DEC. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1	74.945	-140.794	1013.8	-25.9
336	2	74.917	-140.643	1024.3	-27.7
337	3	74.919	-140.630	1027.7	-31.9
338	4	74.951	-140.627	1023.2	-29.3
339	5	74.941	-140.680	1035.1	-32.8
340	6	74.942	-140.573	1034.5	-32.0
341	7			1034.6	-24.4
342	8	75.025	-140.834	1026.7	-25.3
343	9	75.096	-141.171	1028.2	-26.6
344	10	75.124	-141.381	1030.8	-27.4
345	11	75.118	-141.497	1038.7	-29.3
346	12	75.086	-141.636	1032.3	-29.8
347	13	75.012	-141.976	1021.8	-27.5
348	14	74.985	-142.246	1019.2	-25.2
349	15			1017.1	-23.3
350	16	74.938	-142.553	1017.4	-23.6
351	17	74.890	-142.671	1023.8	-27.4
352	18	74.851	-142.773	1026.2	-30.3
353	19	74.809	-142.838	1022.8	-29.7
354	20	74.798	-142.987	1021.5	-28.8
355	21	74.804	-143.272	1019.3	-28.5
356	22	74.774	-143.617	1024.0	-30.1
357	23	74.688	-143.627	1019.9	-28.5
358	24	74.642	-143.664	1026.6	-28.1
359	25	74.634	-143.665	1032.4	-29.8
360	26	74.633	-143.677	1032.4	-29.0
361	27	74.619	-143.751	1032.8	-29.5
362	28			1029.5	-28.9
363	29	74.723*	-144.743	1025.7	-26.6
364	30			1016.5*	-24.1*
365	31				

BUOY(3826) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1				
122	2				
123	3				
124	4				
125	5				
126	6				
127	7				
128	8				
129	9				
130	10				
131	11				
132	12				
133	13				
134	14				
135	15				
136	16				
137	17				
138	18				
139	19				
140	20				
141	21				
142	22				
143	23				
144	24				
145	25				
146	26				
147	27				
148	28	82.994*	-115.164		
149	29	82.958	-115.187		
150	30	82.902	-115.142		
151	31	82.883	-115.035		

BUOY(3826) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	82.891	-114.865		
153	2	82.876	-114.750		
154	3	82.842	-114.722		
155	4	82.775	-114.657		
156	5	82.708	-114.778		
157	6	82.648	-114.952		
158	7	82.640	-114.869		
159	8	82.647	-114.815		
160	9	82.649	-114.770		
161	10	82.647	-114.766		
162	11	82.634	-114.945	1027.5	1.3
163	12	82.653*	-114.935	1023.2	2.6
164	13	82.729*	-114.913	1018.6	2.0
165	14	82.778	-114.689	1013.9	1.7
166	15			1018.5	2.3
167	16	82.745	-114.452	1022.4	2.3
168	17	82.674	-114.534	1029.1	2.0
169	18	82.608	-114.815	1030.2	2.5
170	19	82.545	-115.162	1026.2	2.5
171	20	82.499	-115.295	1025.9	4.6
172	21	82.461*	-115.214	1024.3	5.5
173	22	82.459*	-115.156	1021.8	5.1
174	23	82.462*	-115.160	1020.4	3.9
175	24			1013.7	2.3
176	25			1007.5	1.7
177	26	82.615	-114.931	1005.2	2.7
178	27	82.639	-114.614	1002.3	3.0
179	28			1006.4	4.2
180	29	82.704*	-114.242	992.5	2.5
181	30			1008.8*	1.7*

BUOY(3826) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	82.695*	-113.754	1007.9*	2.5*
183	2	82.710	-113.707	1011.4	2.3
184	3	82.654	-113.882	1025.2	3.5
185	4	82.642	-114.013	1019.9	5.1
186	5	82.653	-113.869	1012.0	5.0
187	6	82.663	-113.690	1009.1	3.0
188	7	82.573	-113.737	1015.8	2.4
189	8	82.518	-113.751	1017.9	3.0
190	9	82.478	-113.764	1022.0	3.7
191	10	82.457	-113.860	1023.3	3.7
192	11	82.415	-113.876	1026.0	3.5
193	12	82.354	-113.684	1021.9	4.1
194	13	82.340	-113.522	1017.9	3.6
195	14	82.351	-113.347	1015.3	3.1
196	15	82.353	-113.045	1009.8	2.1
197	16			1008.6	2.3
198	17	82.344*	-112.988	1004.1	1.7
199	18	82.394	-112.467	987.0	1.2
200	19	82.379	-112.273	992.6	2.3
201	20	82.378	-112.326	991.2	3.4
202	21	82.395	-112.378	995.7	3.2
203	22	82.402	-112.543	998.4	3.0
204	23	82.430	-112.542	1005.3	3.0
205	24	82.482	-112.718	1012.8	2.2
206	25	82.454*	-112.786	1008.6	2.3
207	26	82.420*	-112.509	1001.8	1.4
208	27	82.446	-112.204	999.2	1.5
209	28	82.510	-112.090	1008.6	1.3
210	29	82.508	-112.471	1014.6	1.7
211	30	82.455	-112.678	1015.5	.8
212	31	82.428	-112.522	1006.1	.4

BUOY(3826) AUG. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
213	1	82.450	-112.346	999.4	1.0
214	2	82.455	-112.179	1001.2	1.5
215	3	82.514	-111.777	1007.2	1.4
216	4	82.585	-111.729	1008.0	1.5
217	5	82.655	-111.808	1007.4	1.7
218	6	82.667	-111.791	1009.4	1.8
219	7	82.675	-111.651	1006.9	1.7
220	8	82.685	-111.722	1004.4	.9
221	9	82.680	-111.853	1007.3	1.3
222	10	82.677	-111.967	1010.6	.9
223	11	82.636	-112.101	1014.8	-.1
224	12	82.598	-112.068	1017.6	.0
225	13	82.562	-112.099	1021.5	.7
226	14	82.556	-112.095	1014.4	1.2
227	15	82.590	-112.012	1003.0	.9
228	16	82.665	-111.866	1004.8	.7
229	17	82.736	-111.557	1009.0	.8
230	18	82.826	-111.266	1002.5	1.1
231	19	82.870	-110.974	1001.8	.9
232	20			1003.0	.0
233	21	82.931*	-111.167	1006.6	-.5
234	22	82.898	-112.107	1015.2	-1.3
235	23	82.860	-112.510	1016.6	-2.2
236	24	82.834	-112.424	1018.8	-1.1
237	25	82.808	-112.066	1022.1	-1.2
238	26	82.825	-111.195	1013.4	-.8
239	27	82.839	-110.589	1015.1	.7
240	28	82.852	-110.477	1018.9	.9
241	29	82.854	-110.422	1018.3	.5
242	30	82.868	-109.959	1005.2	.5
243	31	82.867	-109.464	999.3	-.0

BUOY(3826) SEPT 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
244	1	82.866	-109.348	1008.1	.1
245	2	82.886	-109.197	1012.9	-.4
246	3	82.875	-109.155	1020.8	-.2
247	4	82.881	-108.929	1023.0	.0
248	5	82.890	-108.826	1021.9	-.9
249	6	82.903	-108.590	1014.0	-1.2
250	7	82.915	-108.331	1011.3	-1.2
251	8	82.912	-108.332	1013.7	-1.6
252	9	82.904	-108.168	1012.1	-1.5
253	10	82.893	-107.441	997.2	-.7
254	11	82.867	-107.479	1010.5	-1.2
255	12	82.847	-107.499	1015.9	-3.0
256	13	82.851	-107.454	1009.3	-4.4
257	14	82.856	-107.226	994.4	-1.8
258	15	82.856	-107.217	993.2	-1.8
259	16	82.863	-107.193	1000.4	-2.3
260	17	82.875	-107.259	995.7	-2.4
261	18	82.916	-108.436	984.1	-2.8
262	19	82.981	-108.798	1001.6	-3.3
263	20	82.926	-108.839	1006.8	-3.3
264	21	82.875	-108.428	999.3	-2.5
265	22	82.893	-108.497	1012.1	-3.5
266	23	82.867	-108.563	1020.5	-3.3
267	24	82.856	-108.447	1024.1	-2.7
268	25	82.842	-108.245	1017.2	-2.4
269	26	82.815	-107.944	1015.1	-2.2
270	27	82.817	-107.928	1023.5	-3.0
271	28	82.818	-107.942	1028.4	-4.3
272	29	82.815	-107.945	1025.8	-5.6
273	30	82.777	-108.156	1022.2	-4.2

BUOY(3826) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1	82.676	-108.588	1013.3	-2.5
275	2	82.653	-108.630	1005.1	-2.8
276	3	82.660	-108.628	999.4	-3.0
277	4	82.719	-108.626	1011.4	-3.2
278	5	82.741	-108.723	1019.8	-4.0
279	6	82.724	-108.939	1015.3	-4.1
280	7	82.685	-108.886	1014.3	-4.5
281	8	82.675	-108.641	1019.0	-4.9
282	9	82.682	-108.550	1021.6	-4.9
283	10	82.696	-108.475	1019.3	-4.7
284	11	82.691	-108.605	1016.2	-4.8
285	12	82.680	-108.720	1019.8	-4.6
286	13	82.727	-108.815	1008.9	-5.1
287	14	82.781	-108.690	1008.4	-4.4
288	15	82.833	-108.553	1014.8	-4.9
289	16	82.844	-108.646	1018.4	-4.4
290	17	82.831	-108.996	1015.6	-4.5
291	18	82.812	-109.219	1014.4	-5.1
292	19	82.787	-109.158	1007.9	-5.4
293	20	82.753	-109.014	1005.0	-5.8
294	21	82.751	-109.006	1012.4	-5.2
295	22	82.748	-108.877	1009.1	-4.1
296	23	82.750	-108.862	1010.4	-4.5
297	24	82.747	-108.803	1014.7	-6.0
298	25	82.750	-108.795	1016.8	-7.0
299	26	82.752*	-108.774	1020.5	-7.6
300	27	82.753*	-108.759	1025.8	-7.1
301	28	82.737	-108.987	1021.8	-7.0
302	29	82.746	-109.776	1015.3	-7.5
303	30	82.726	-110.323	1016.9	-9.1
304	31	82.711	-110.630	1010.2	-10.1

BUOY(3826) NOV. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
305	1	82.688	-111.078	1006.6	-7.6
306	2	82.697	-111.479	1009.8	-7.0
307	3	82.705	-111.515	1023.0	-9.0
308	4	82.669	-111.547	1019.7	-11.5
309	5	82.646	-111.447	1010.1	-10.7
310	6	82.637	-111.514	1015.7	-10.9
311	7	82.602	-111.549	1016.9	-10.4
312	8	82.587	-111.643	1015.1	-9.4
313	9	82.569	-111.590	1009.1	-8.2
314	10	82.515	-111.653	1012.4	-7.9
315	11	82.434	-111.830	1017.4	-9.5
316	12	82.337	-112.007	1017.1	-9.5
317	13	82.258	-112.339	1026.1	-8.4
318	14	82.177	-112.624	1023.4	-9.5
319	15	82.082	-112.563	1009.9	-10.4
320	16	81.995	-112.669	1017.9	-9.9
321	17	81.956	-112.722	1021.1	-10.9
322	18	81.946	-112.747	1014.7	-11.5
323	19	81.946	-112.764	1023.7	-13.8
324	20	81.944	-112.771	1026.4	-14.9
325	21	81.919	-112.862	1025.1	-14.3
326	22	81.818	-113.194	1026.0	-11.2
327	23	81.731	-113.536	1026.9	-10.4
328	24	81.628	-113.759	1028.0	-11.0
329	25	81.556	-113.879	1034.2	-11.9
330	26	81.494	-113.851	1017.0	-13.3
331	27	81.468	-113.782	1005.1	-12.7
332	28	81.466	-113.782	1004.3	-12.8
333	29	81.467	-113.766	999.3	-13.3
334	30	81.467	-113.776	1000.5	-13.2

BUOY(3826) DEC. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1	81.466	-113.775	1003.7	-13.9
336	2	81.468	-113.782	1010.0	-13.8
337	3	81.466	-113.742	1020.4	-14.5
338	4	81.465	-113.757	1022.9	-15.2
339	5	81.465	-113.761	1023.8	-16.1
340	6	81.465	-113.759	1023.5	-17.1
341	7	81.463	-113.760	1026.1	-16.9
342	8	81.466	-113.746	1028.6	-15.4
343	9	81.468	-113.752	1022.0	-15.3
344	10	81.465*	-113.756	1023.5	-13.3
345	11	81.466*	-113.768	1028.1	-14.5
346	12	81.464	-113.762	1026.9	-14.6
347	13	81.467	-113.761	1019.5	-14.1
348	14	81.463	-113.755	1008.5	-14.8
349	15	81.464	-113.782	1006.7	-13.2
350	16	81.464	-113.770	1009.6	-14.5
351	17	81.469*	-113.762	1019.7	-17.0
352	18			1011.8	-17.2
353	19			1010.1	-16.4
354	20	81.465*	-113.747	1010.4	-17.2
355	21	81.463*	-113.769	1018.4	-19.5
356	22				
357	23	81.465	-113.756	1010.2	-19.2
358	24			1020.2	-18.6
359	25	81.464	-113.752	1020.8	-18.6
360	26	81.464	-113.753	1013.8	-17.9
361	27	81.466*	-113.767	1024.7	-17.6
362	28	81.464*	-113.769	1028.6	-18.4
363	29			1020.3	-17.9
364	30				
365	31				

BUOY(3828) MAY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
121	1				
122	2				
123	3				
124	4				
125	5				
126	6				
127	7				
128	8				
129	9				
130	10				
131	11				
132	12				
133	13				
134	14				
135	15				
136	16				
137	17				
138	18				
139	19				
140	20				
141	21				
142	22				
143	23				
144	24				
145	25				
146	26				
147	27				
148	28	77.872*	-129.867		
149	29	77.783	-129.776		
150	30	77.787	-129.679		
151	31	77.810	-129.585		

BUOY(3828) JUNE 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
152	1	77.840	-129.663		
153	2	77.853	-129.823		
154	3	77.833	-130.122		
155	4	77.809	-130.458		
156	5	77.755	-130.640		
157	6	77.716	-130.863		
158	7	77.725	-130.988		
159	8	77.733	-131.040		
160	9	77.740	-131.085		
161	10	77.710	-131.152		
162	11	77.683	-131.503	1019.5	.5
163	12	77.723	-131.696	1017.6	1.9
164	13	77.721	-131.762	1012.9	3.4
165	14	77.674	-131.828	1019.0	3.2
166	15	77.624	-131.795	1025.5	2.9
167	16	77.568	-131.661	1031.9	2.7
168	17	77.475	-131.683	1030.4	2.7
169	18	77.417	-131.898	1031.1	3.0
170	19	77.356	-132.076	1026.2	1.9
171	20	77.309	-132.281	1026.2	3.2
172	21	77.276	-132.446	1026.6	4.9
173	22	77.255	-132.524	1028.1	6.0
174	23	77.226	-132.491	1027.0	5.8
175	24	77.209	-132.232	1014.3	4.3
176	25	77.205	-131.804	1009.6	3.6
177	26	77.214	-131.457	1009.9	3.0
178	27	77.208	-131.232	1009.8	2.9
179	28	77.203	-131.117	1011.6	2.7
180	29	77.239	-131.104	1001.9	3.4
181	30			1006.3*	2.3*

BUOY(3828) JULY 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
182	1	77.186*	-131.420	1005.9*	2.3*
183	2	77.130	-131.307	1020.2	3.2
184	3	77.167	-131.697	1015.5	3.2
185	4	77.192	-131.798	1015.5	3.2
186	5	77.159	-131.924	1013.9	4.7
187	6	77.073*	-132.059	1018.1	3.7
188	7	77.015	-132.277	1023.5	3.6
189	8	76.970	-132.383	1023.6	4.8
190	9	76.924	-132.513	1027.3	5.5
191	10	76.881*	-132.625	1029.5	5.9
192	11	76.828	-132.711	1027.7	5.1
193	12	76.798	-132.877	1028.8	5.5
194	13	76.764	-132.890	1025.5	8.5
195	14	76.744*	-132.868	1022.9	7.6
196	15	76.727	-132.828	1018.7	6.8
197	16	76.703	-132.865	1011.6	6.4
198	17			1014.0	2.9
199	18	76.569*	-132.873	1004.5	1.9
200	19	76.448	-132.795	1005.1	1.9
201	20	76.333	-132.570	998.8	1.5
202	21	76.249	-132.504	1003.3	1.1
203	22			1003.0	.8
204	23	76.167	-132.093	1007.1	1.5
205	24	76.151	-131.907	1010.5	1.1
206	25	76.173	-132.161	1008.2	1.7
207	26	76.107	-132.048	1018.0	1.7
208	27	76.091	-131.853	1008.5	2.5
209	28	76.014	-131.680	1004.3	1.8
210	29	75.933	-131.825	1013.5	2.1
211	30	75.895	-131.941	1021.2	2.8
212	31	75.842*	-131.974	1018.9	2.1

BUOY(3828) AUG. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
213	1	75.786	-131.559	1009.6	1.4
214	2	75.756	-131.420	1006.1	2.2
215	3	75.756	-131.249	1001.9	2.0
216	4	75.722	-131.196	1004.0	2.4
217	5	75.644*	-131.114	1009.4	.0
218	6	75.553	-130.910	1011.8	.7
219	7	75.504	-130.729	1016.9	2.2
220	8	75.433	-130.571	1015.0	2.4
221	9	75.386*	-130.603	1008.9	1.7
222	10	75.345	-130.848	1010.3	.3
223	11	75.356	-131.004	1013.3	.1
224	12	75.386	-131.206	1019.5	1.0
225	13	75.372	-131.298	1020.7	3.0
226	14	75.444	-131.361	1002.3	3.0
227	15	75.425	-131.184	1009.3	1.2
228	16	75.441	-130.877	1008.7	1.4
229	17	75.446	-130.675	1009.2	1.9
230	18	75.411	-130.559	1011.6	1.6
231	19	75.362	-130.173	1013.0	.8
232	20	75.308	-129.781	1006.8	.0
233	21	75.157	-129.518	1010.7	-1.5
234	22			1015.0	-1.9
235	23	74.896	-129.868	1021.1	-2.5
236	24	74.850	-129.963	1025.3	-.8
237	25	74.824	-129.977	1031.1	.7
238	26	74.807	-129.893	1027.4	-1.8
239	27	74.816	-129.920	1019.7	-1.5
240	28	74.863	-129.972	1018.2	.6
241	29	74.894	-130.152	1022.6	1.2
242	30	74.881	-130.355	1018.1	.2
243	31	74.854	-130.570	1013.8	-.1

BUOY(3828) SEPT 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
244	1	74.830	-130.860	1015.9	-.7
245	2	74.799	-131.077	1020.5	-1.0
246	3	74.777	-131.203	1025.4	-2.7
247	4	74.783	-131.375	1025.8	-1.8
248	5	74.832	-131.584	1019.9	-.4
249	6	74.872	-131.790	1017.6	-.9
250	7	74.857	-132.036	1012.8	-.8
251	8	74.800	-132.314	1012.8	-1.7
252	9	74.756	-132.472	1014.0	-2.7
253	10	74.726	-132.735	1018.5	-1.7
254	11	74.692	-132.888	1021.5	-2.6
255	12	74.606	-132.937	1024.2	-2.5
256	13	74.551	-132.978	1022.7	-1.2
257	14	74.500	-133.105	1008.5	-1.2
258	15	74.410	-133.085	1011.6	-3.0
259	16	74.402	-132.963	995.2	-1.5
260	17	74.319	-132.967	996.9	-2.1
261	18	74.220	-132.701	1010.8	-7.7
262	19	74.093	-132.384	1019.7	-8.3
263	20	74.015	-132.307	1021.9	-10.2
264	21	73.976	-132.509	1021.7	-10.7
265	22	73.881	-132.461	1018.2	-9.1
266	23	73.826	-132.516	1021.2	-4.6
267	24	73.825	-132.770	1017.4	-6.1
268	25	73.831	-133.064	1018.4	-6.8
269	26	73.866	-133.265	1017.9	-2.6
270	27	73.886	-133.385	1017.5	-1.0
271	28	73.860*	-133.518	1026.4	-3.2
272	29	73.805	-133.753	1025.9	-10.3
273	30	73.750	-134.115	1023.2	-15.1

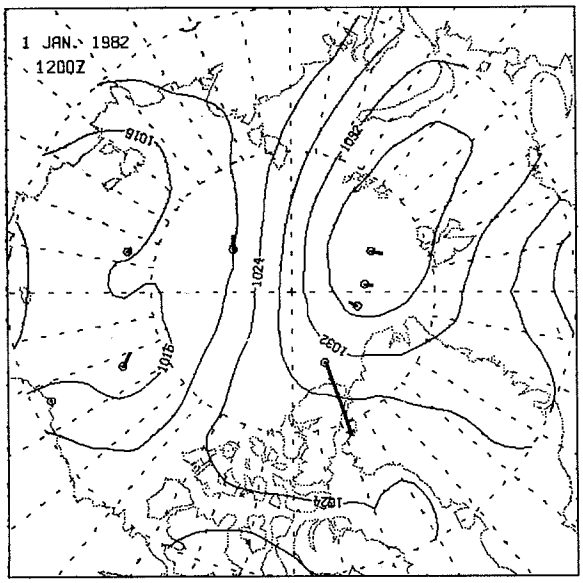
BUOY(3828) OCT. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
274	1	73.680	-134.481	1022.9	-12.9
275	2	73.601	-134.634	1014.9	-10.4
276	3	73.518	-134.686	1007.7	-13.7
277	4	73.452	-134.692	1003.7	-13.7
278	5	73.428	-134.665	1003.4	-10.8
279	6	73.446	-134.708	1003.2	-7.8
280	7	73.451	-134.697	1008.0	-7.7
281	8	73.447	-134.789	1011.4	-7.3
282	9	73.497	-134.951	1008.8	-5.0
283	10	73.443	-135.044	1017.0	-13.0
284	11	73.399	-135.319	1014.0	-17.0
285	12	73.359	-135.629	1008.4	-13.1
286	13	73.313	-135.644	1013.3	-19.2
287	14	73.255	-135.621	1021.0	-18.5
288	15	73.198	-135.433	1028.1	-17.5
289	16	73.127	-135.286	1028.1	-17.5
290	17	73.061	-135.360	1022.2	-21.0
291	18	72.999	-135.439	1026.6	-25.3
292	19	73.095	-135.599	1000.1	-15.9
293	20	73.145	-135.478	999.5	-7.2
294	21	73.114	-135.388	1009.8	-11.5
295	22	73.017	-135.527	1021.2	-17.3
296	23	72.982*	-135.646	1025.1	-22.6
297	24	72.998	-136.002	1007.9	-15.8
298	25			993.4	-8.7
299	26			1006.5	-12.9
300	27	73.031	-136.264	1006.7	-16.6
301	28	72.974	-136.130	998.8	-17.8
302	29	72.981	-136.048	998.5	-19.3
303	30	72.994	-136.389	1001.2	-17.0
304	31	72.976	-136.707	1005.4	-16.0

BUOY(3828) NOV. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
305	1	72.952	-136.785	1017.0	-20.9
306	2	72.894	-136.852	1026.3	-19.9
307	3	72.834	-136.912	1028.3	-25.2
308	4	72.784	-137.222	1022.3	-25.5
309	5	72.718	-137.637	1025.6	-25.4
310	6	72.648	-137.663	1020.7	-23.9
311	7	72.586	-137.602	1026.1	-21.6
312	8	72.549	-137.538	1025.6	-26.2
313	9	72.542	-137.554	1017.5	-27.3
314	10	72.520	-137.532	1023.0	-28.5
315	11	72.494	-137.567	1024.9	-26.9
316	12	72.461	-137.773	1026.9	-26.6
317	13	72.422	-138.000	1022.2	-25.4
318	14	72.450	-138.460	1019.9	-22.5
319	15	72.418	-138.870	1025.4	-23.9
320	16	72.371	-139.131	1027.6	-25.4
321	17	72.315	-139.325	1021.2	-26.7
322	18	72.290	-139.362	1023.4	-28.3
323	19			1014.9	-26.0
324	20	72.257	-139.439	1024.2	-27.2
325	21	72.302	-139.849	1029.6	-28.1
326	22	72.306	-140.094	1037.4	-29.6
327	23	72.278	-140.293	1031.1	-29.4
328	24	72.247	-140.343	1034.9	-25.4
329	25	72.237	-140.536	1030.7	-24.9
330	26	72.308	-141.036	1013.9	-21.9
331	27	72.348	-141.267	1007.1	-20.9
332	28	72.324	-141.353	1002.6	-20.6
333	29	72.273*	-141.399	1001.5	-21.8
334	30	72.195*	-141.281	1007.2	-22.9

BUOY(3828) DEC. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1	72.152	-141.153	1017.1	-25.1
336	2	72.143	-141.134	1024.7	-27.7
337	3	72.142	-141.134	1027.0	-29.1
338	4	72.145	-141.141	1022.0	-27.5
339	5	72.144	-141.141	1034.1	-28.2
340	6	72.145	-141.173	1037.5	-29.8
341	7	72.178	-141.393	1029.8	-25.4
342	8	72.303	-142.138	1014.2	-21.9
343	9			1020.0	-20.4
344	10	72.464	-143.277	1026.5	-19.4
345	11	72.459	-143.444	1034.6	-20.8
346	12	72.442	-143.789	1029.1	-26.5
347	13	72.372	-144.321	1014.4	-27.5
348	14	72.362	-145.087	1013.3	-28.1
349	15			1013.8	-27.0
350	16	72.312	-145.630	1014.5	-26.1
351	17	72.282	-145.733	1018.7	-26.5
352	18	72.280	-145.782	1025.1	-29.4
353	19	72.283	-145.787	1019.3	-29.5
354	20	72.316	-146.218	1013.5	-27.0
355	21	72.353	-146.870	1010.4	-24.2
356	22			1020.3	-27.6
357	23			1019.1	-30.9
358	24	72.299	-147.192	1026.8	-32.4
359	25	72.299	-147.188	1028.4	-31.4
360	26	72.300	-147.198	1030.2	-31.8
361	27	72.302	-147.197	1027.9	-30.5
362	28	72.382	-147.759	1017.7	-27.8
363	29	72.485*	-148.509	1015.8	-21.6
364	30			1004.0*	-16.1*
365	31				

BUOY(3829) DEC. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1				
336	2				
337	3				
338	4				
339	5				
340	6				
341	7				
342	8				
343	9				
344	10	81.989*	-164.937	1035.1*	-25.5*
345	11	81.997*	-165.035	1040.2	-29.0
346	12	82.044	-165.069	1034.4	-25.8
347	13	82.077	-164.970	1024.4	-20.9
348	14	82.065	-164.497	1017.3	-21.0
349	15	82.018	-163.962	1016.5	-23.0
350	16			1022.3	-28.9
351	17			1025.7	-29.8
352	18	81.935*	-163.056	1024.9	-27.6
353	19	81.920	-162.493	1021.9	-29.6
354	20	81.916*	-162.399	1022.5	-31.5
355	21			1028.7	-36.0
356	22			1024.6	-32.3
357	23	81.831*	-162.289	1029.7	-29.9
358	24	81.763*	-162.068	1034.8	-29.5
359	25			1035.3	-31.5
360	26	81.738*	-161.704	1036.6	-31.8
361	27	81.732	-161.642	1040.3	-32.7
362	28	81.770	-161.730	1039.6	-32.5
363	29			1034.4	-31.2
364	30			1030.9*	-27.6*
365	31				

BUOY(3830) DEC. 82		LAT (N)	LON (+E,-W)	P (MB)	T (C)
335	1				
336	2				
337	3				
338	4				
339	5				
340	6				
341	7				
342	8				
343	9				
344	10	85.973*	-149.547	1033.4*	-30.2*
345	11	85.987	-149.555	1040.3	-34.4
346	12	86.021	-149.364	1034.7	-32.7
347	13	86.043	-149.245	1021.8	-25.0
348	14	86.044	-148.824	1003.8	-20.7
349	15	86.009	-148.530	1008.0	-25.0
350	16	86.009	-148.473	1017.6	-31.7
351	17	86.008	-148.491	1015.4	-31.8
352	18	86.008	-148.501	1013.0	-28.9
353	19	86.009	-148.463	1011.4	-28.4
354	20	86.009	-148.447	1020.1	-36.6
355	21	86.007	-148.471	1024.2	-39.6
356	22	85.971	-148.567	1020.0	-29.7
357	23	85.909	-148.442	1023.0	-28.8
358	24	85.867	-147.903	1027.0	-31.4
359	25	85.856	-147.341	1027.2	-29.6
360	26	85.849	-147.269	1028.9	-31.5
361	27	85.809	-146.822	1037.1	-34.4
362	28	85.816	-146.377	1041.7	-33.5
363	29	85.842	-146.177	1038.2	-34.6
364	30			1032.6*	-35.7*
365	31				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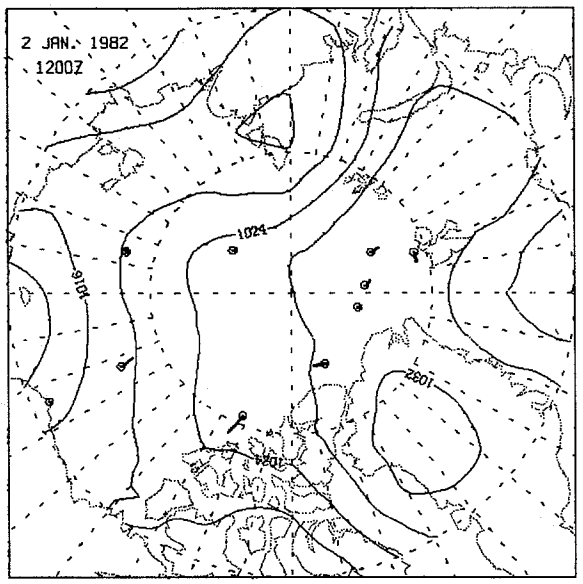
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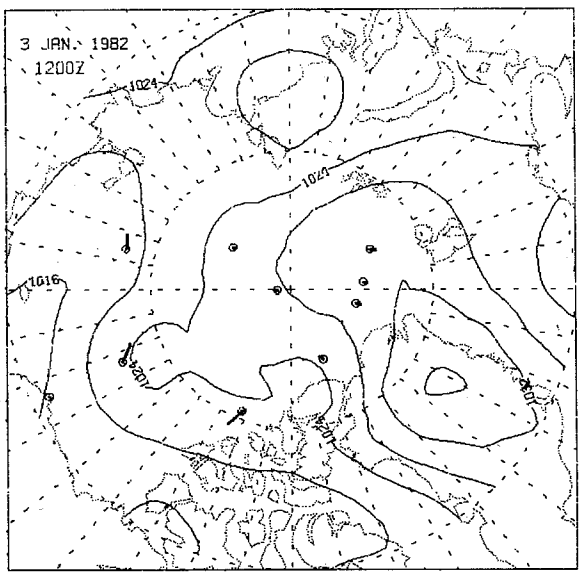
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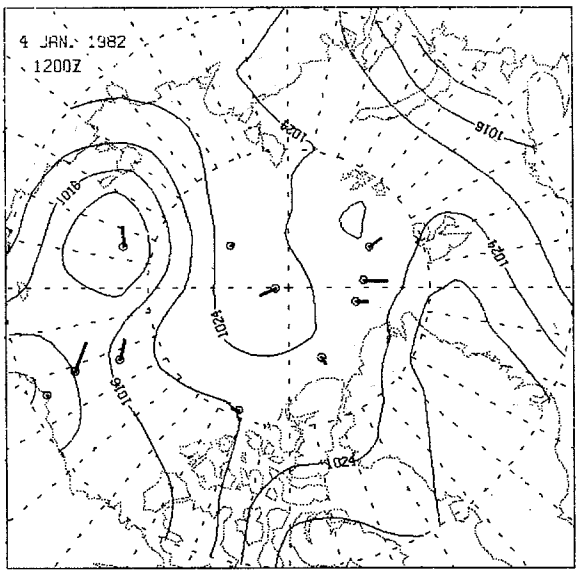
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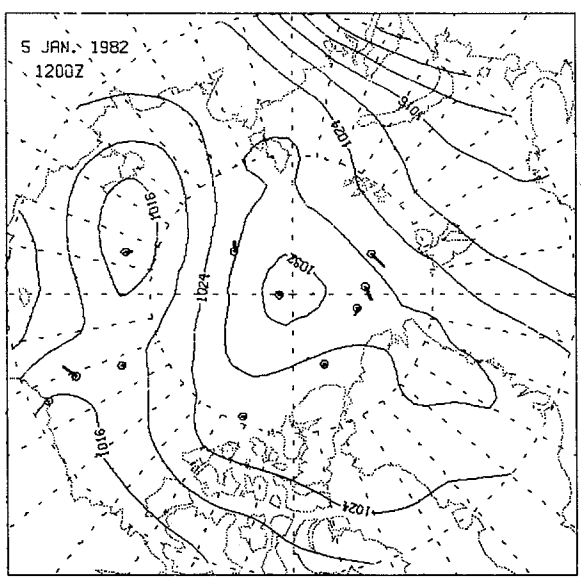
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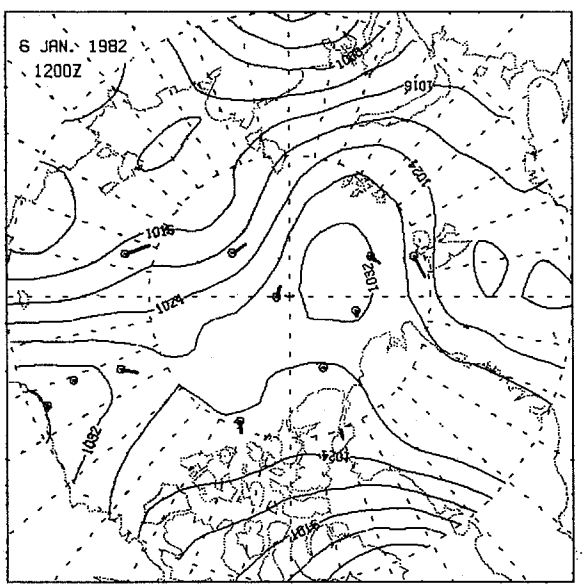
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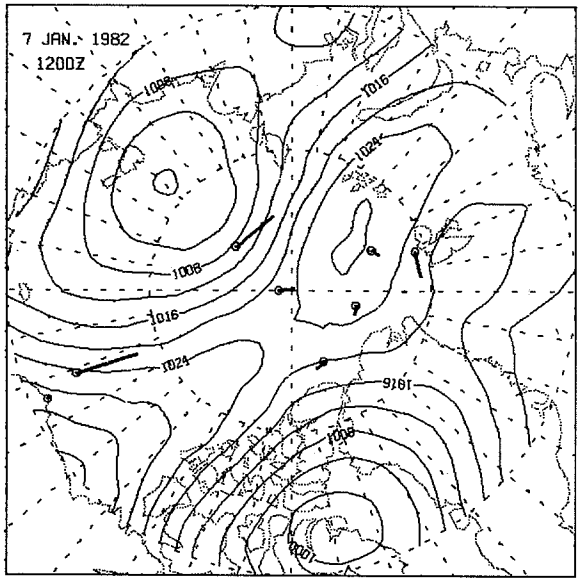
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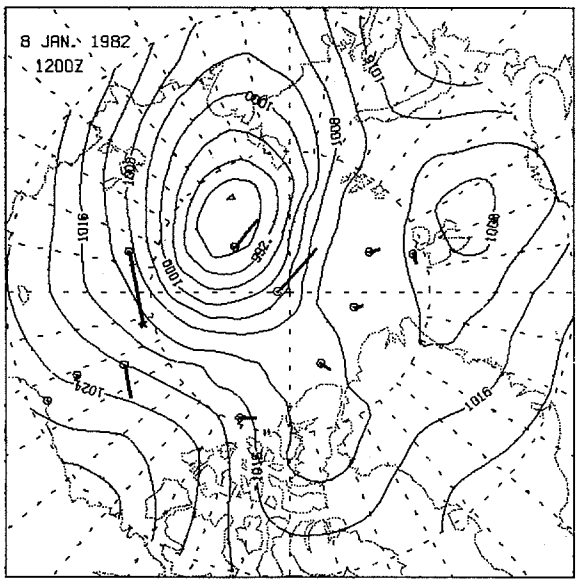
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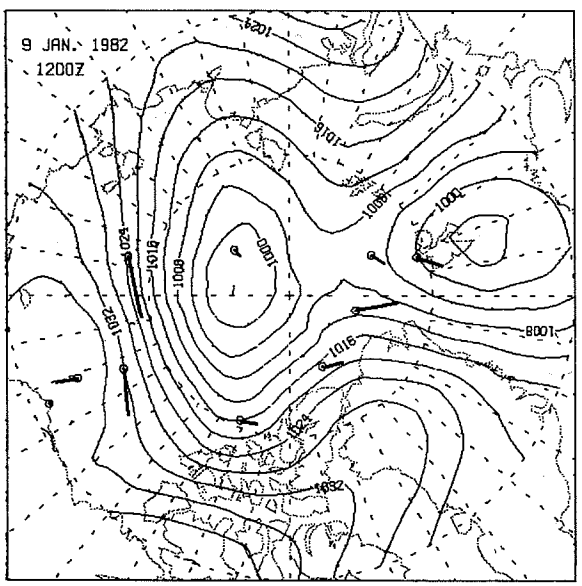
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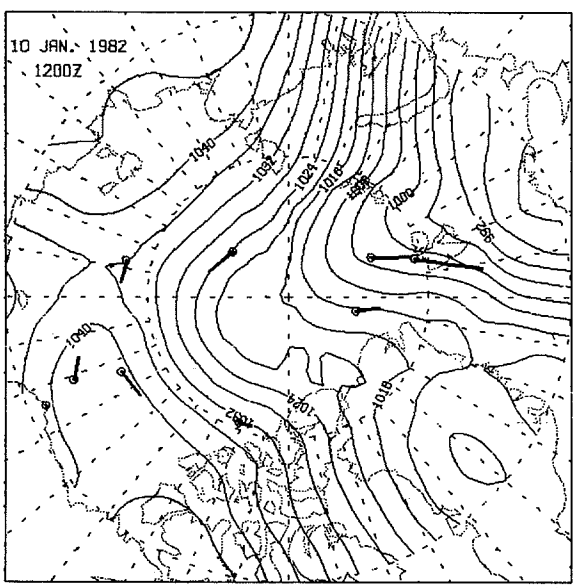
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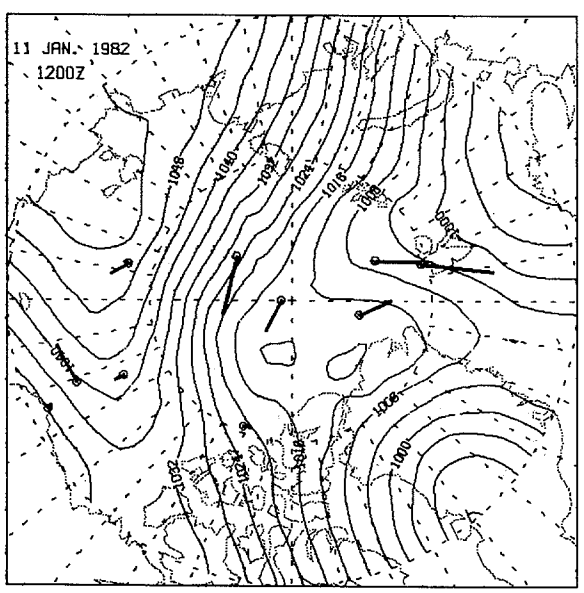
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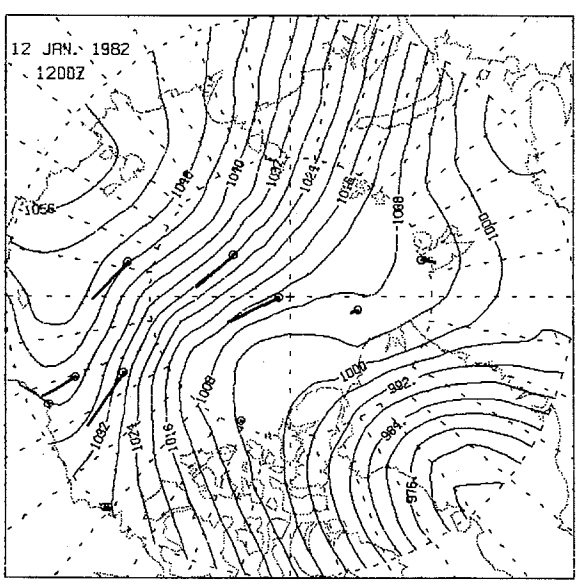
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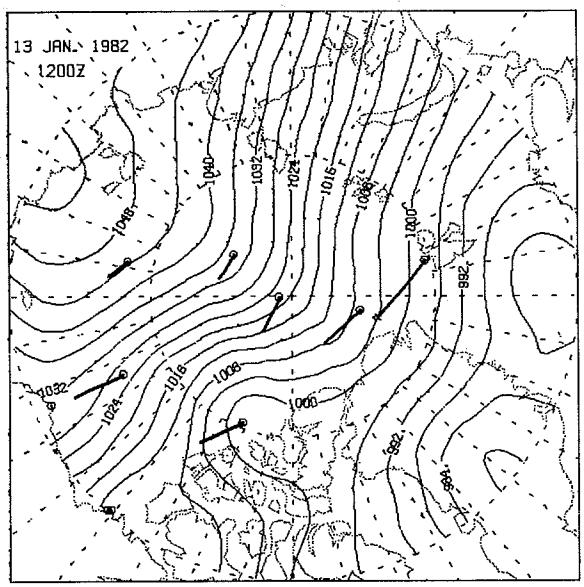
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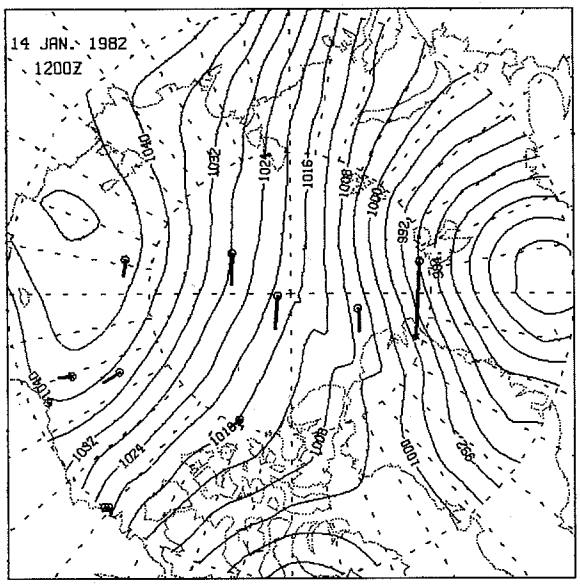
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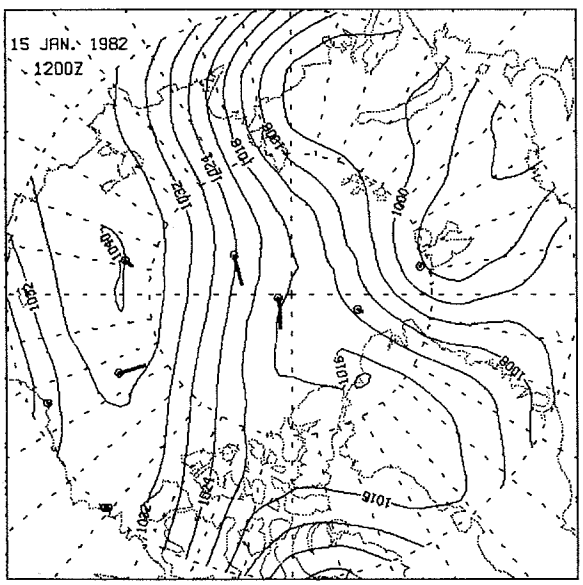
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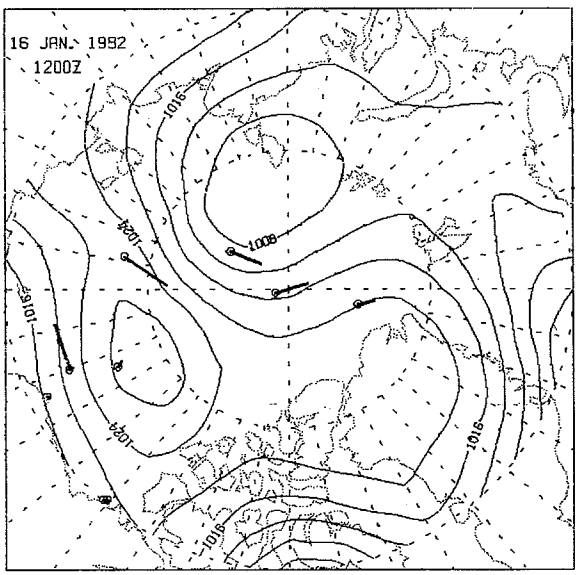
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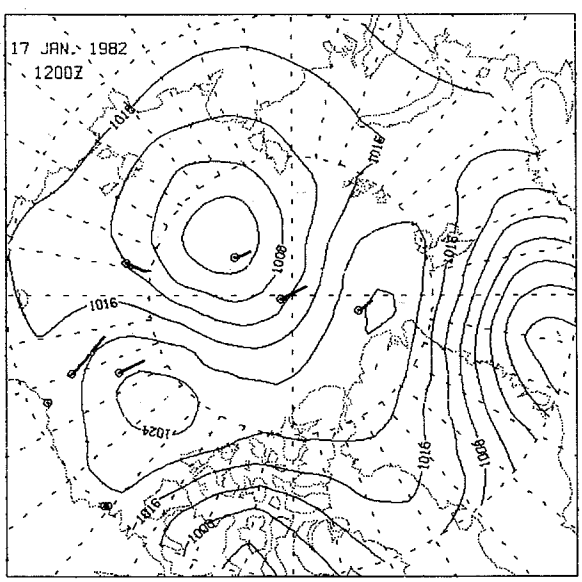
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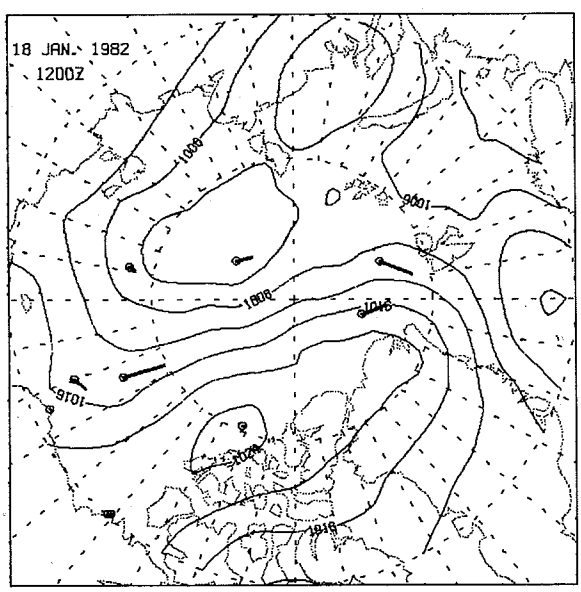
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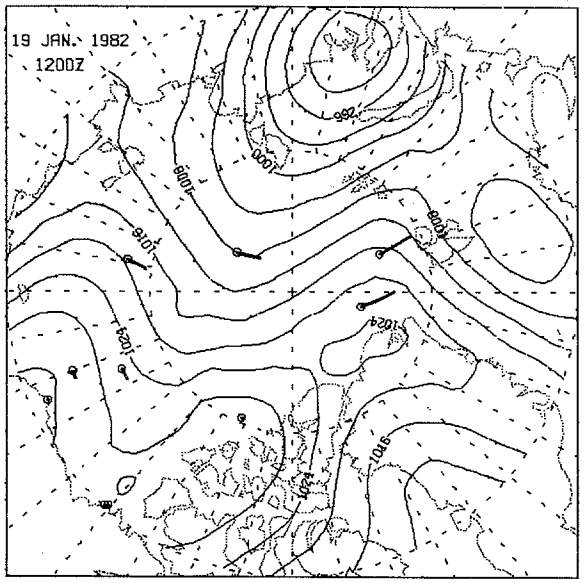
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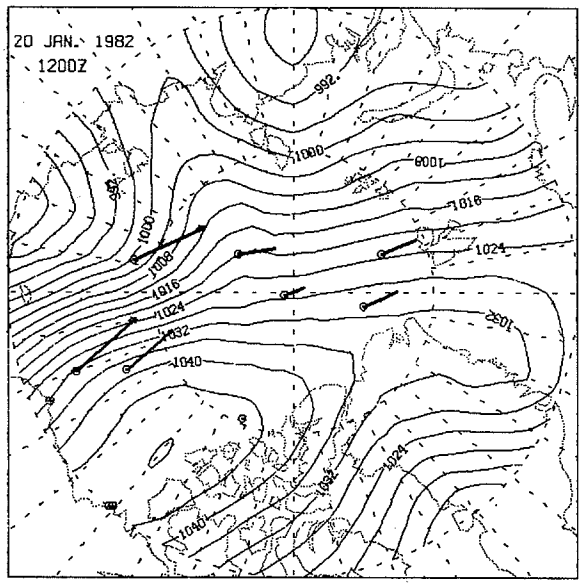
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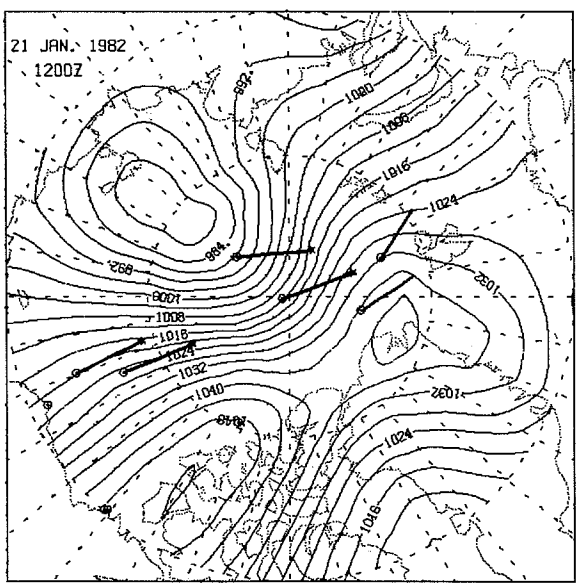
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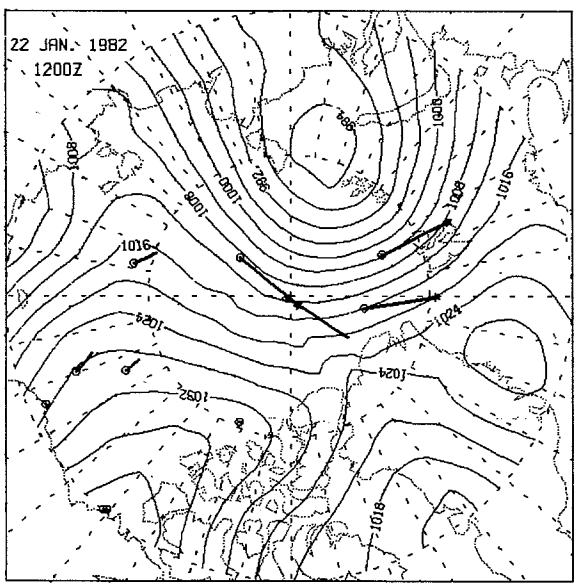
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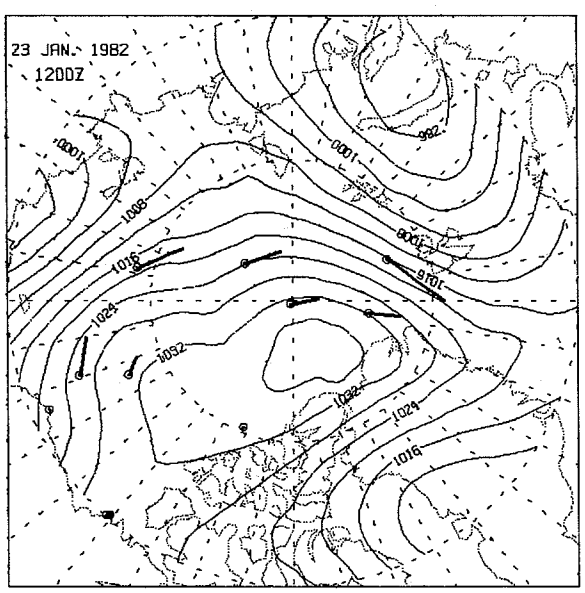
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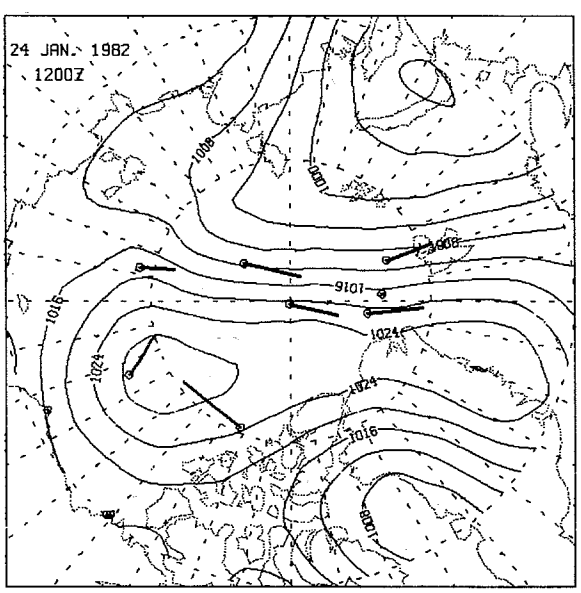
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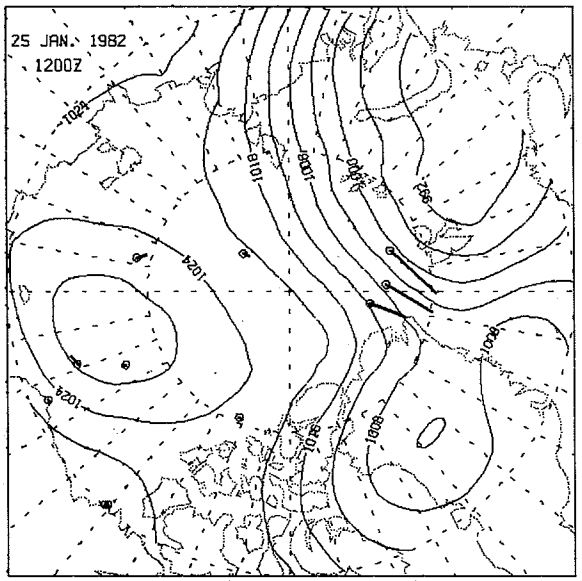
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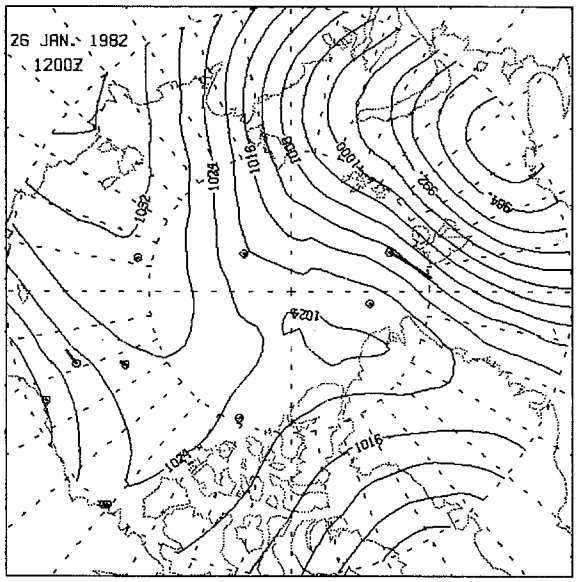
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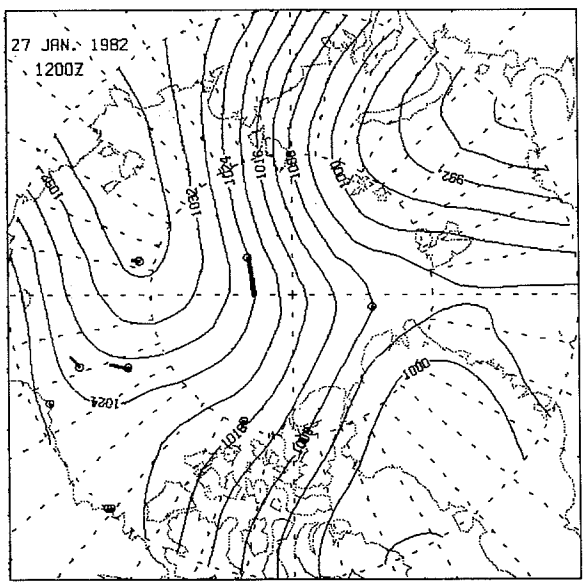
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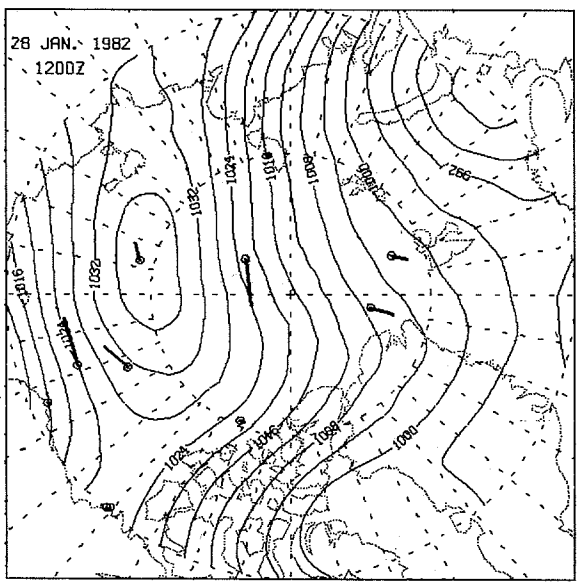
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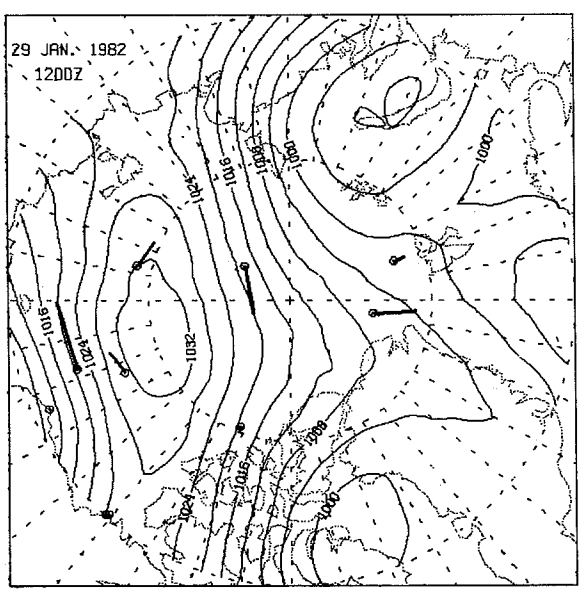
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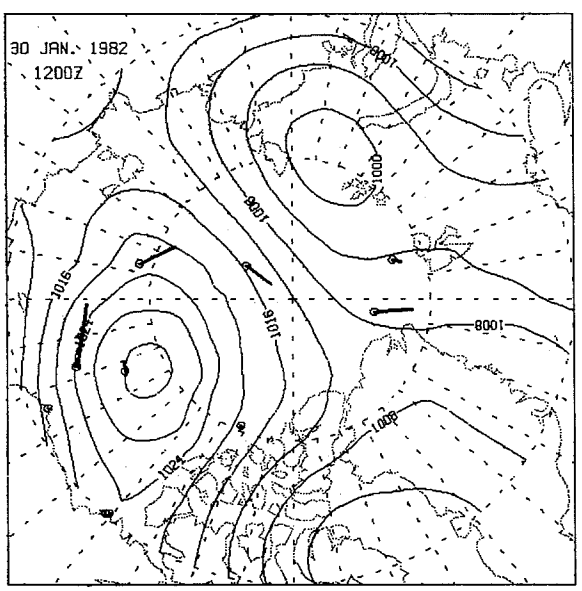
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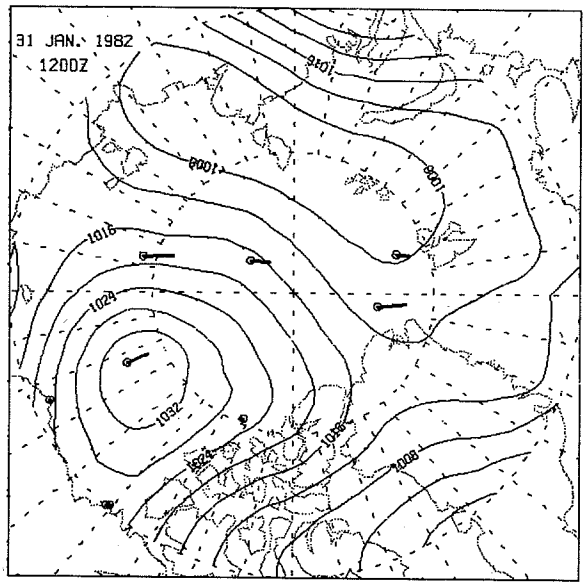
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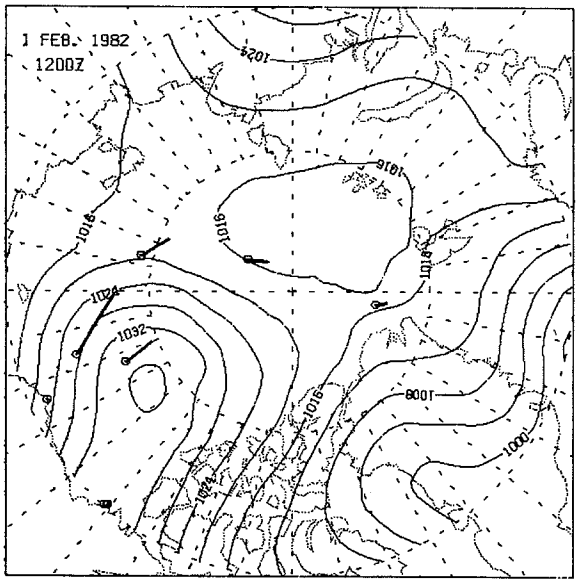
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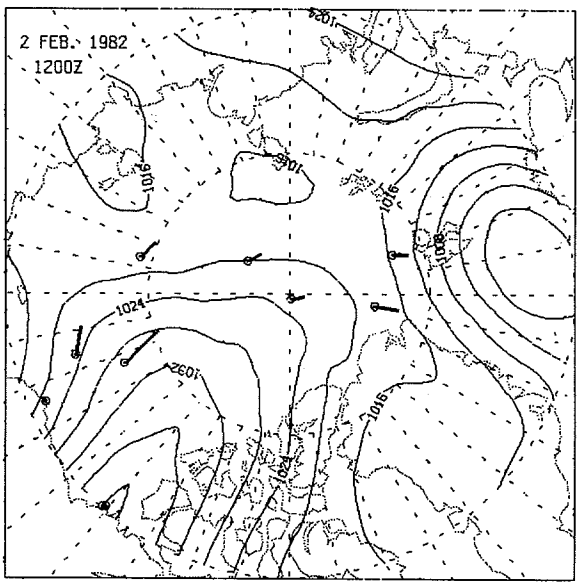
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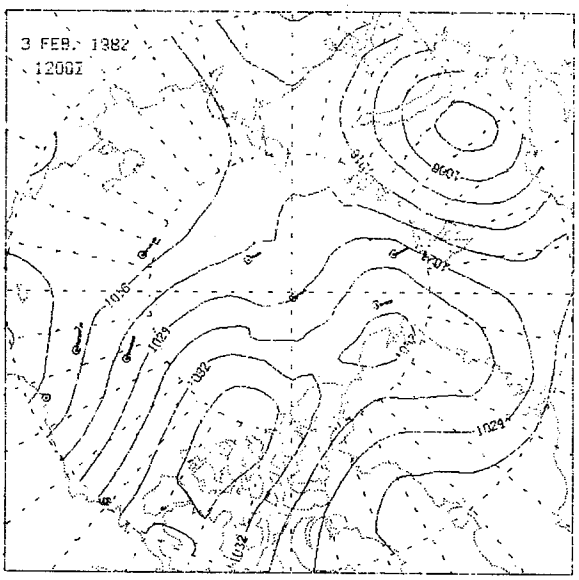
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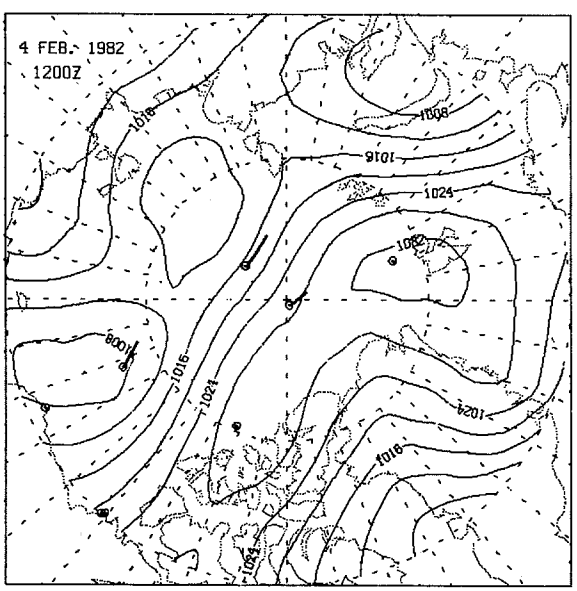
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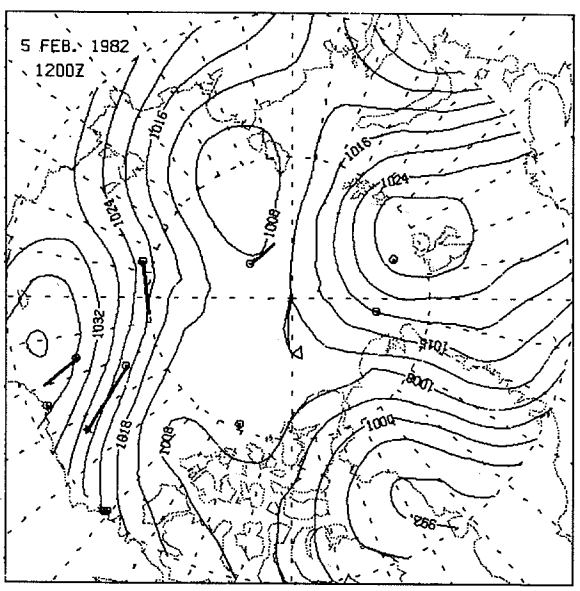
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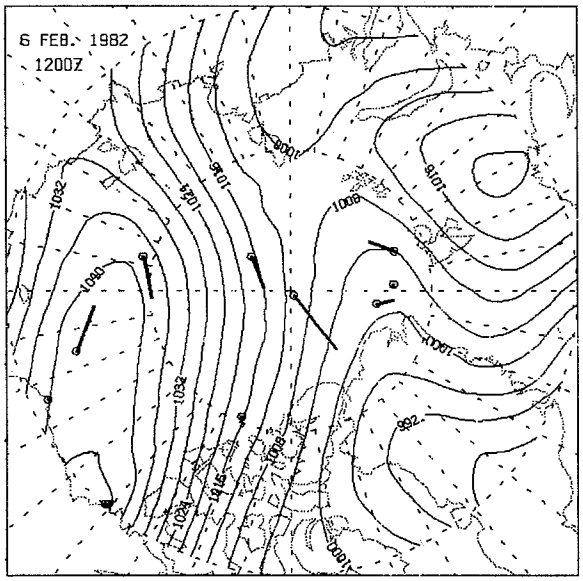
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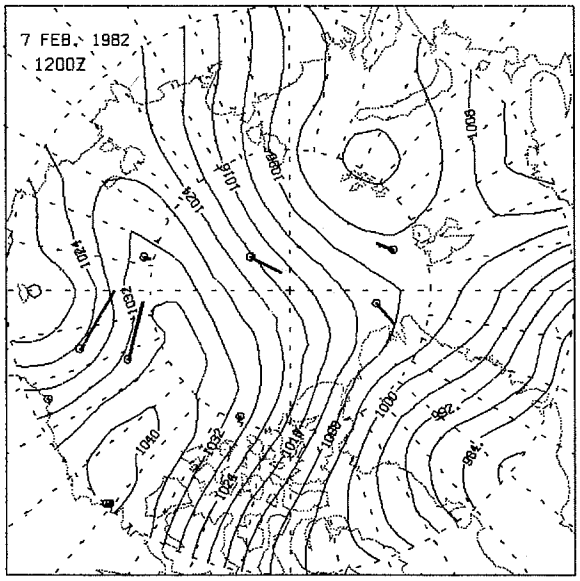
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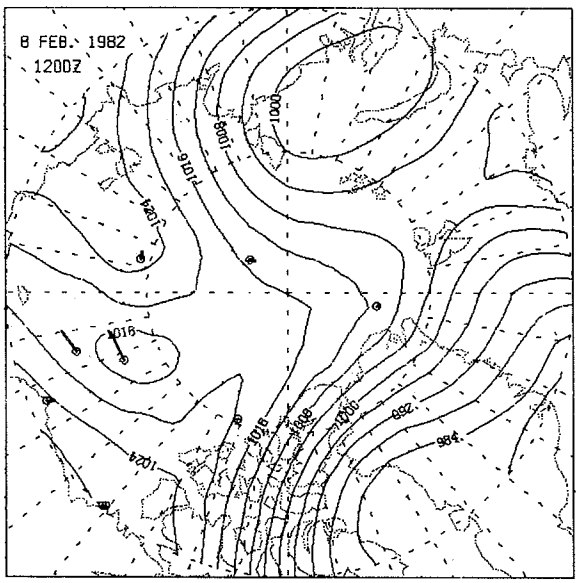
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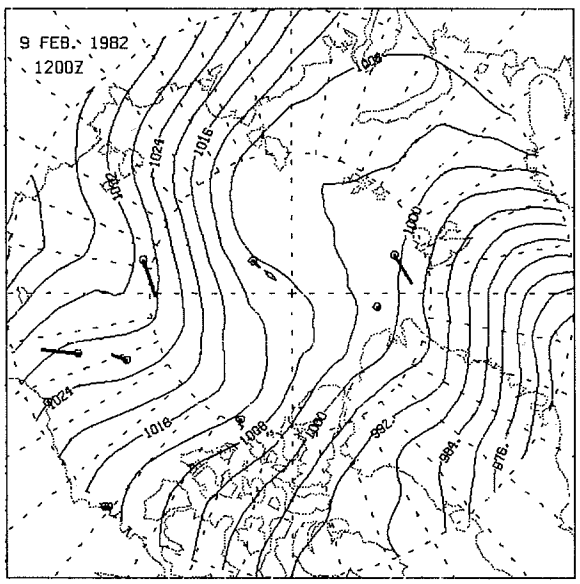
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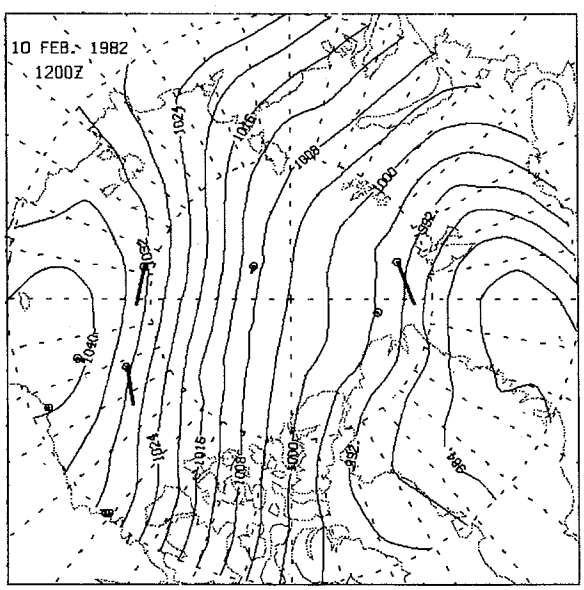
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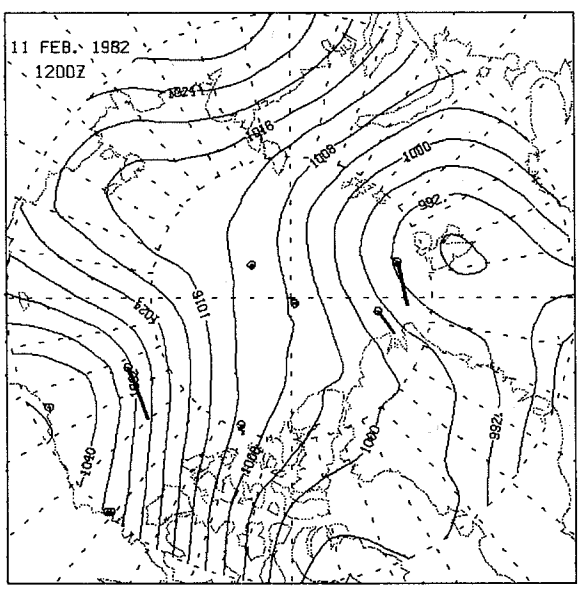
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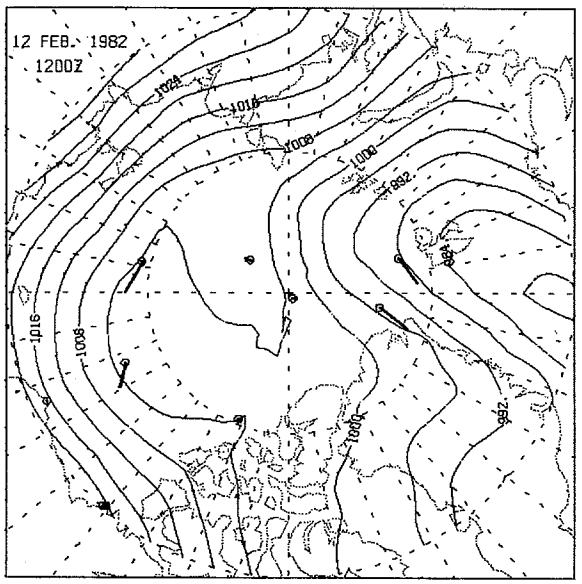
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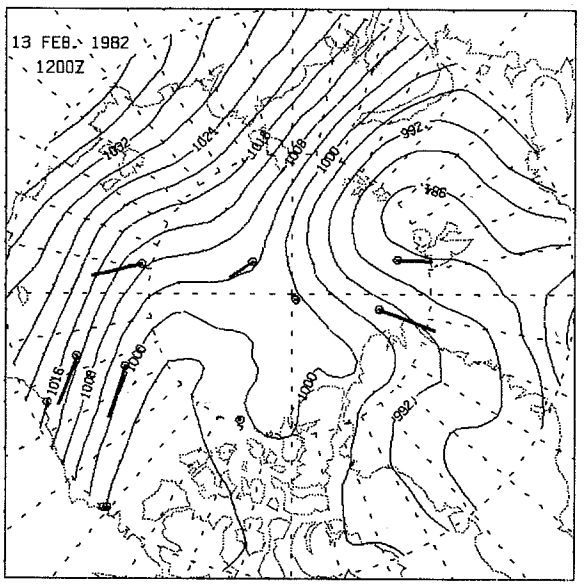
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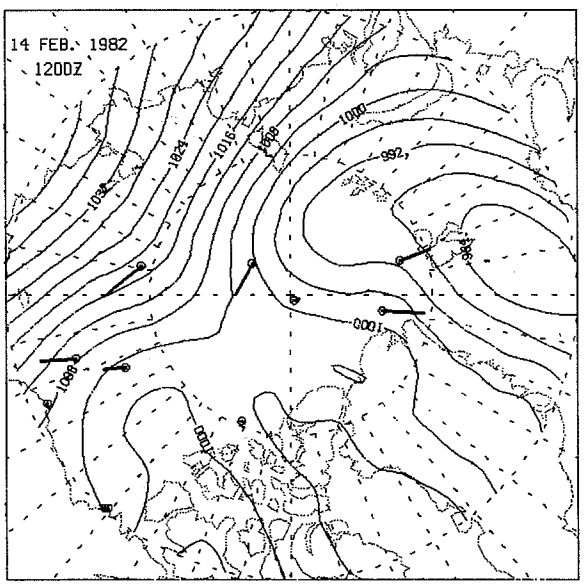
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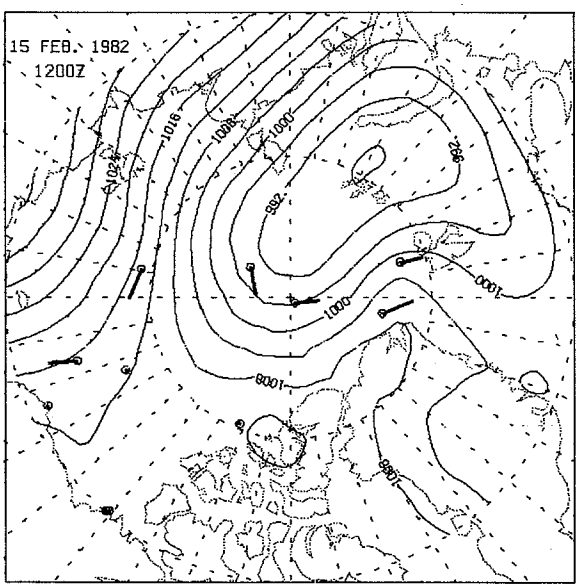
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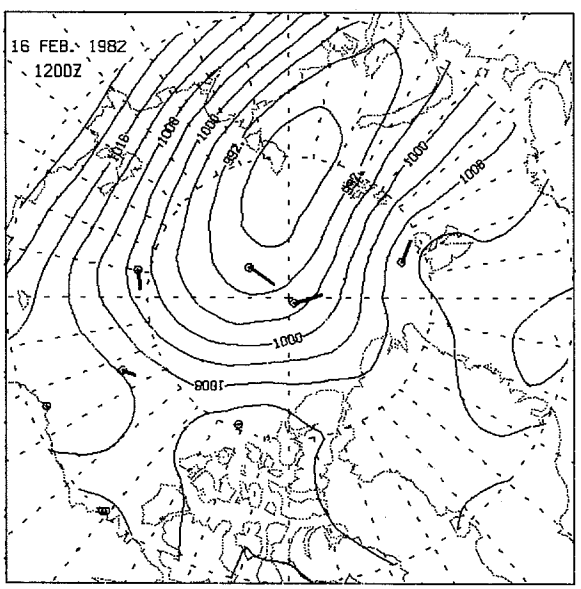
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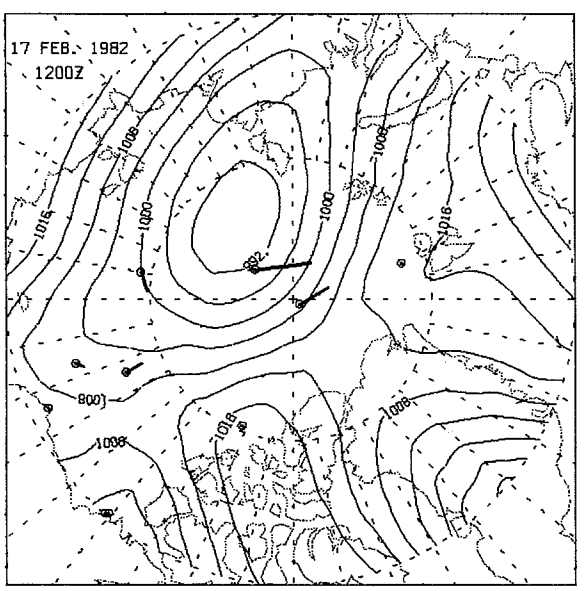
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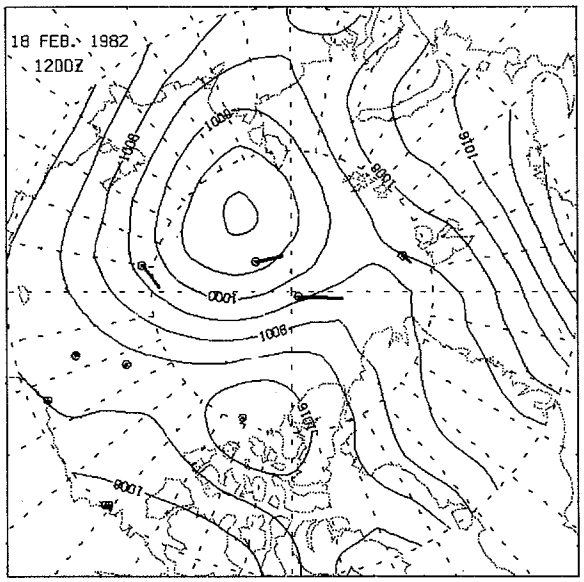
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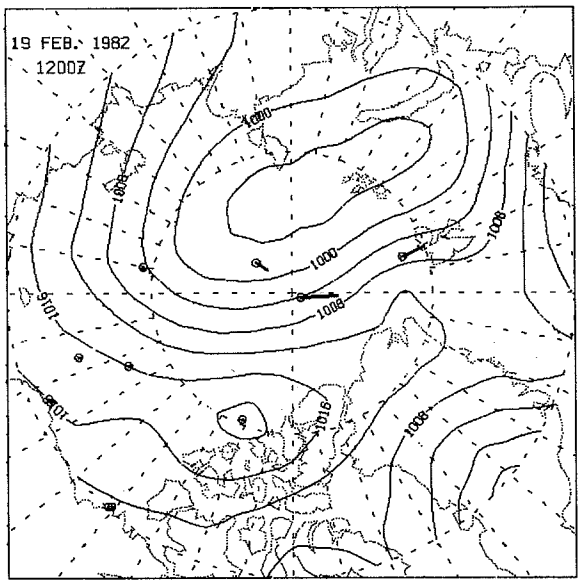
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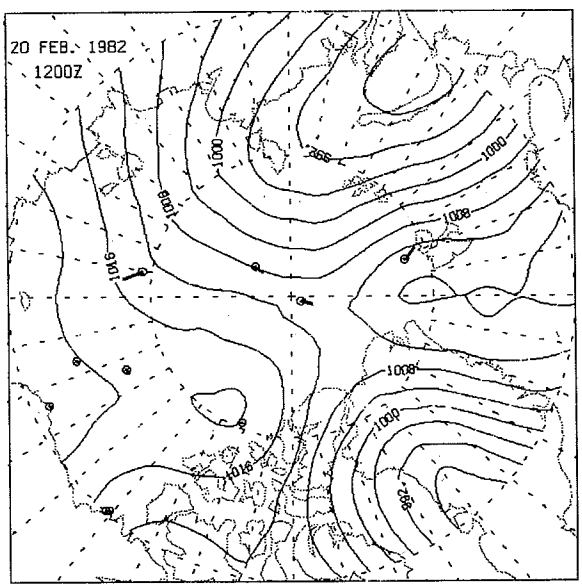
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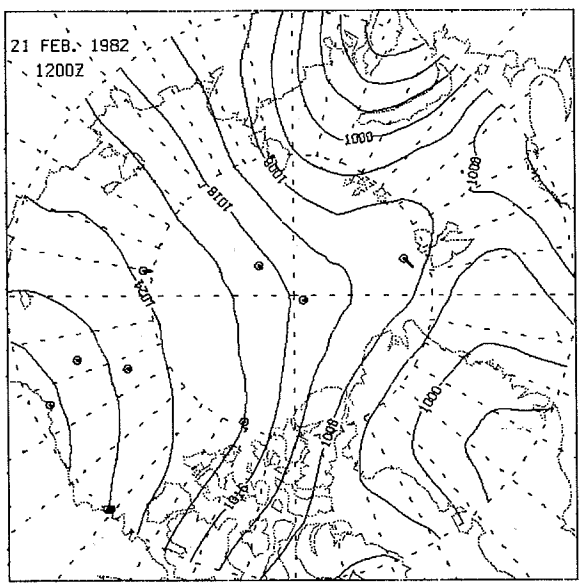
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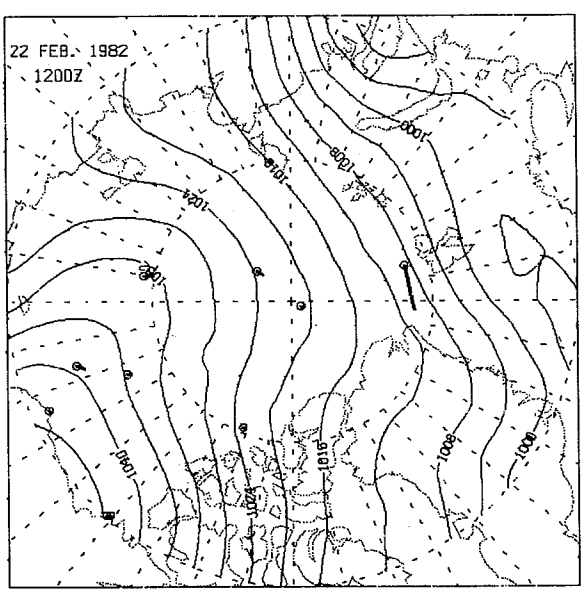
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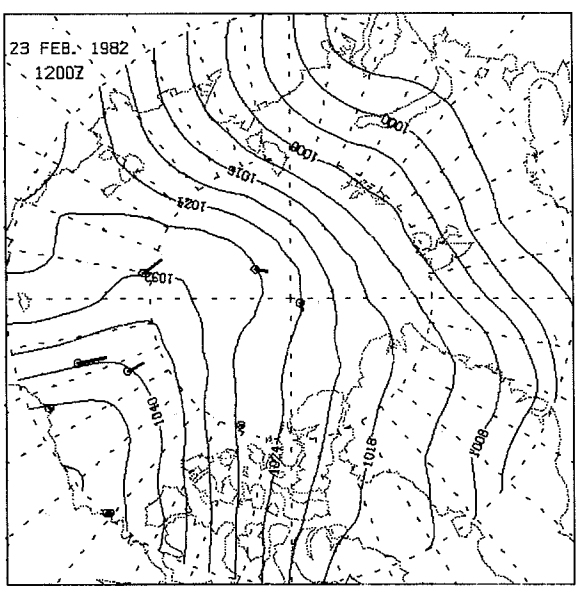
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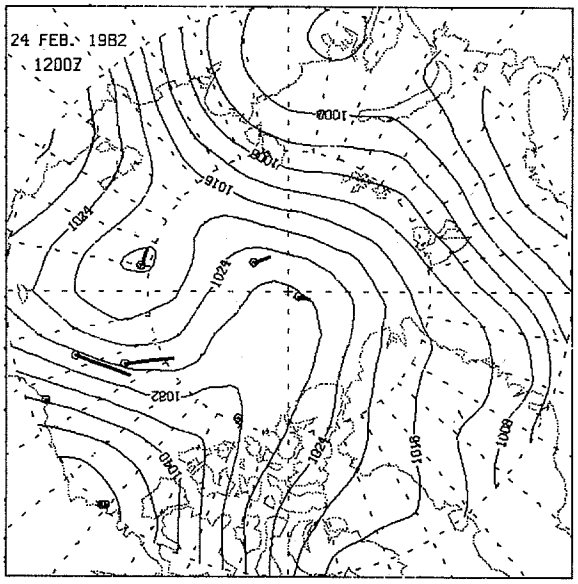
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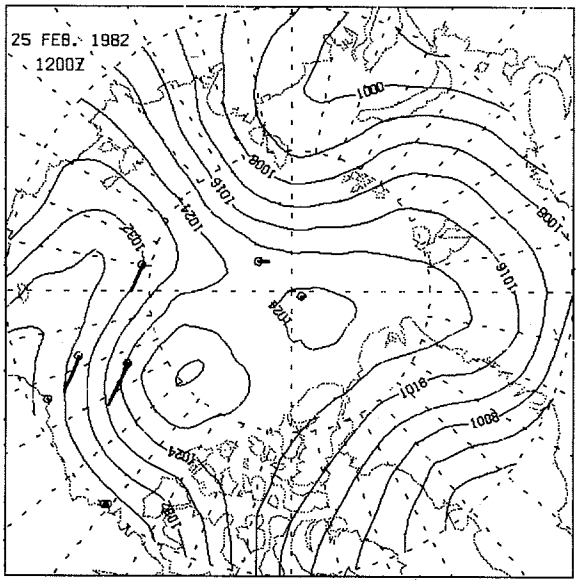
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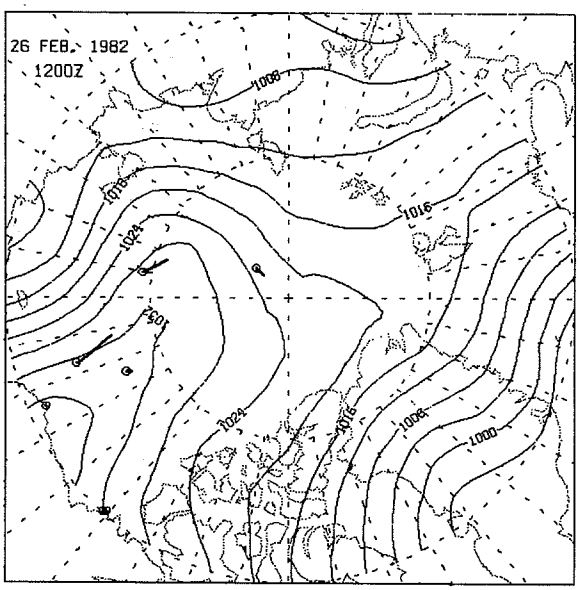
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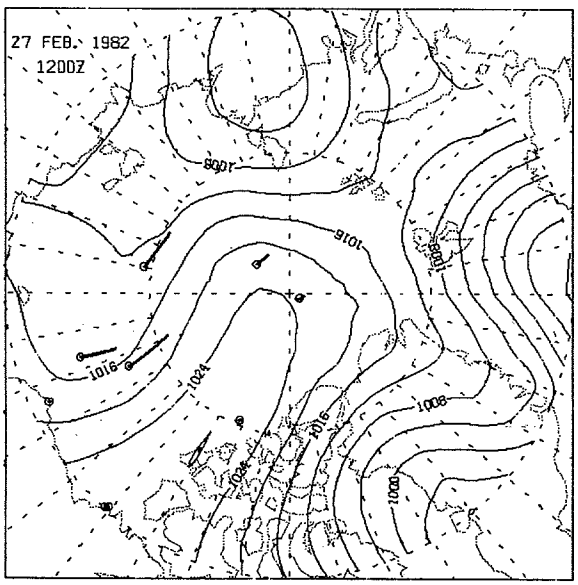
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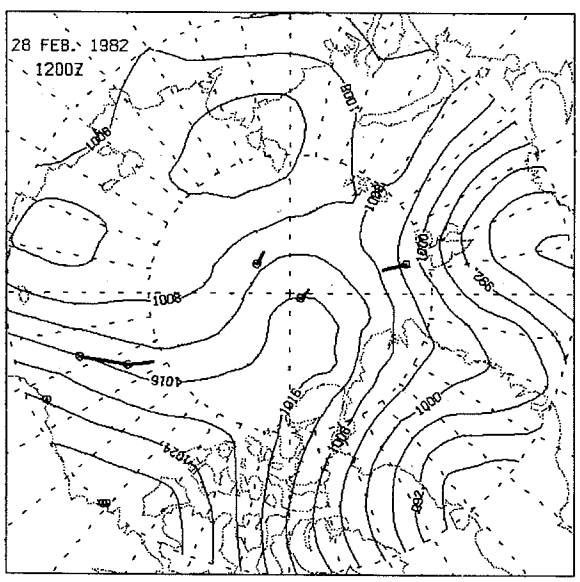
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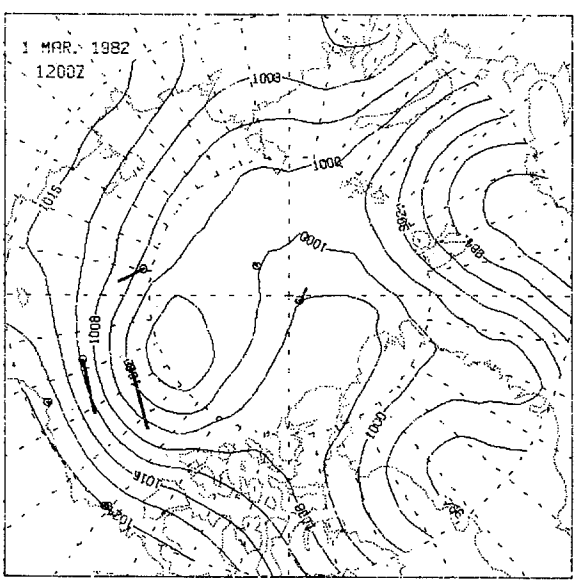
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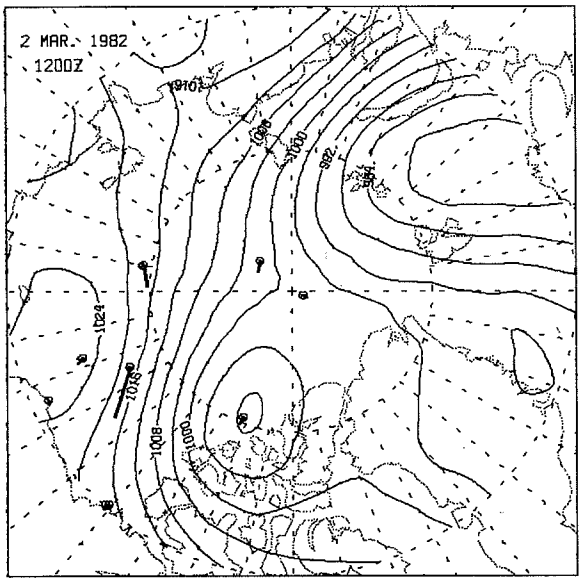
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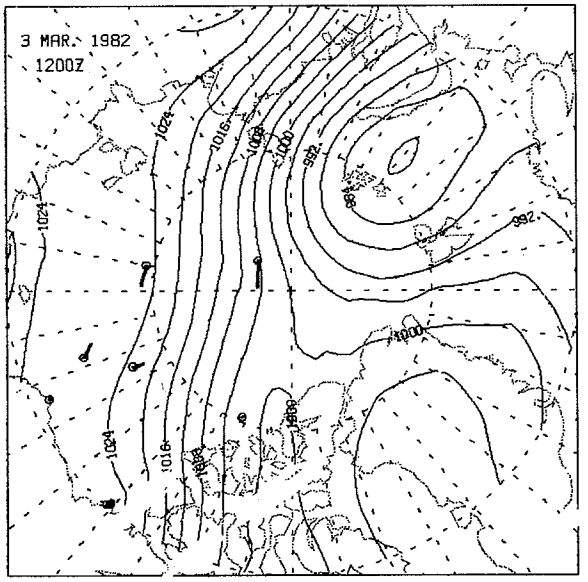
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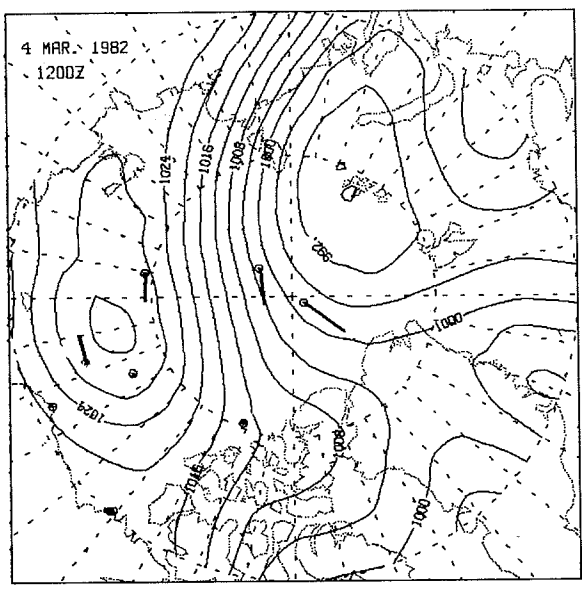
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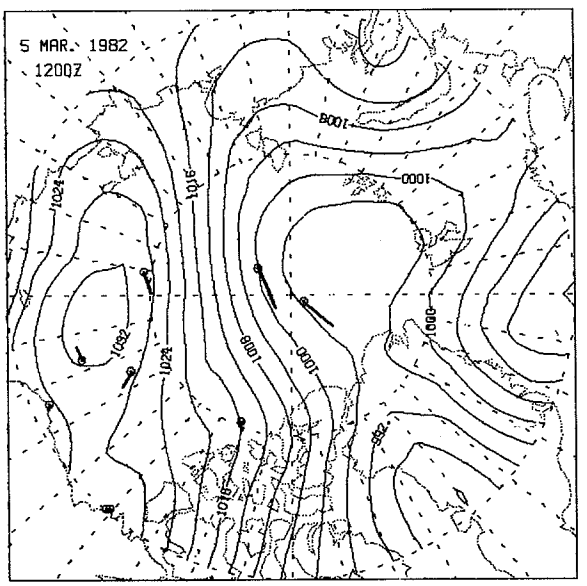
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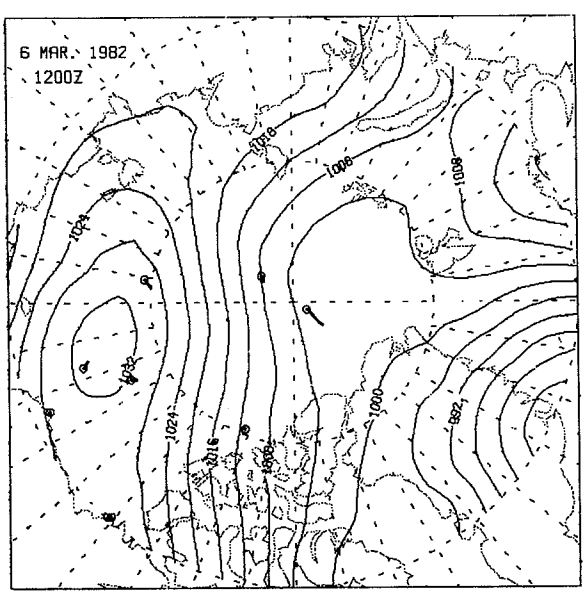
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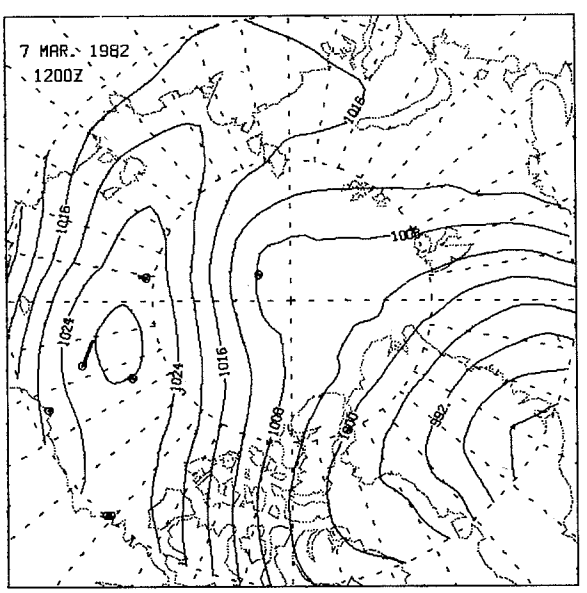
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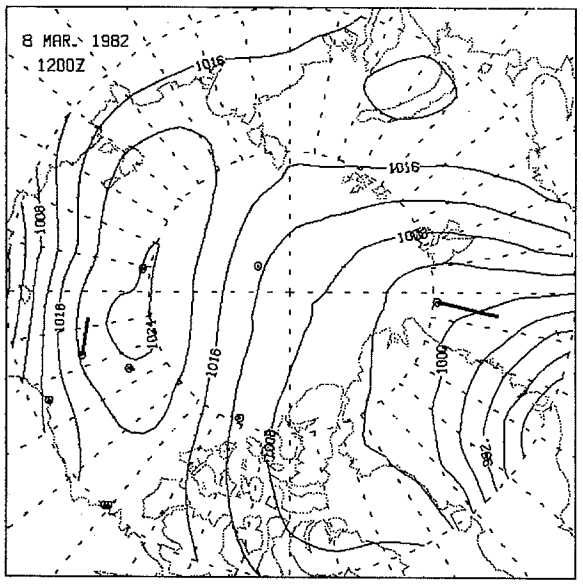
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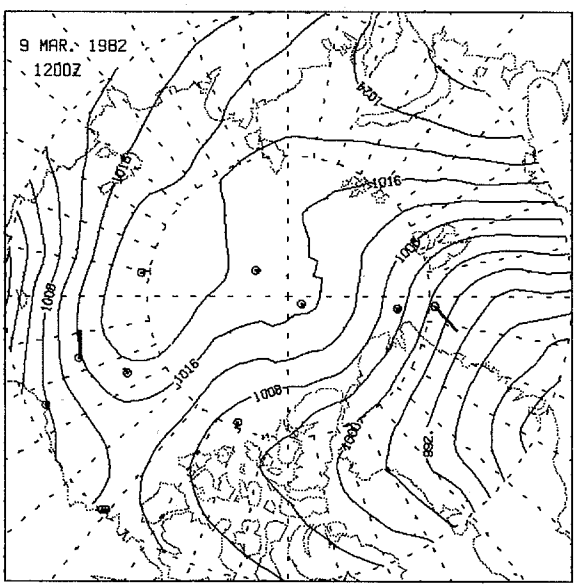
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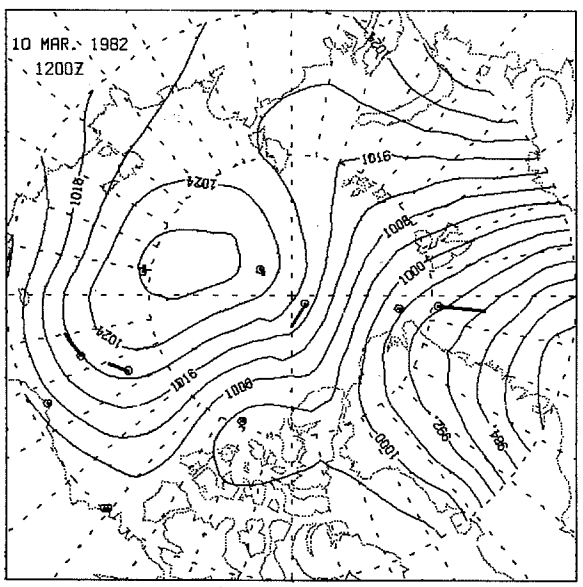
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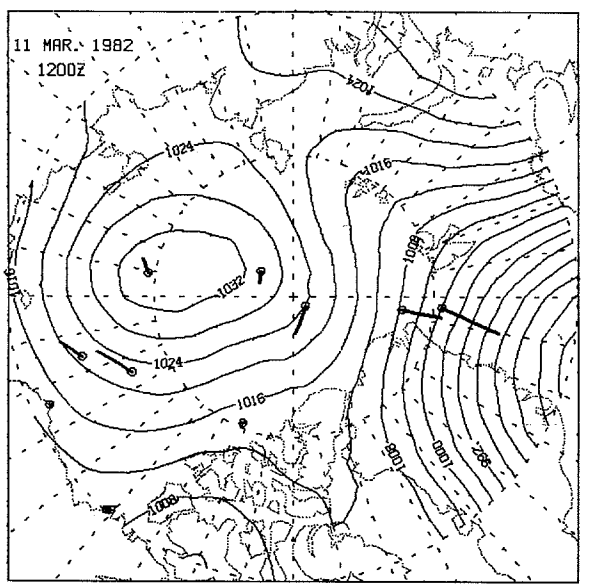
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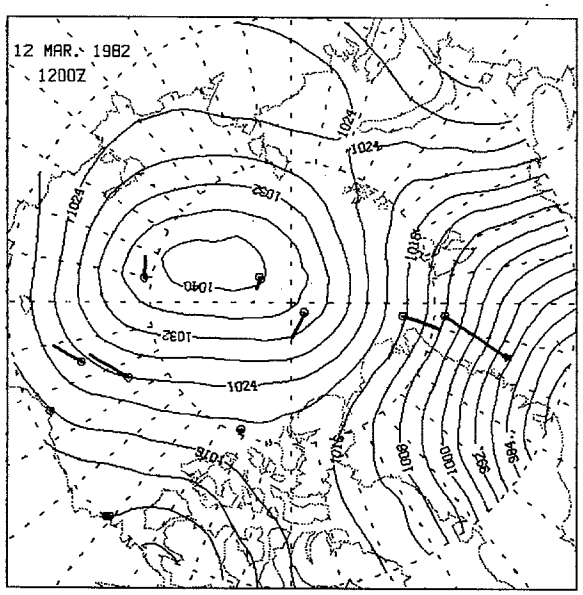
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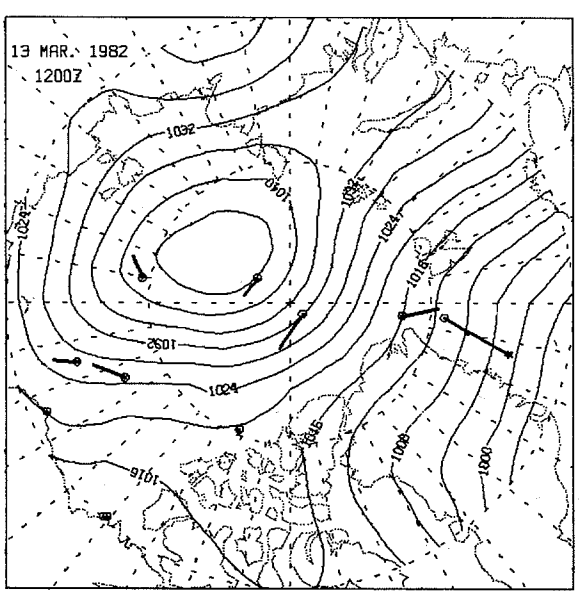
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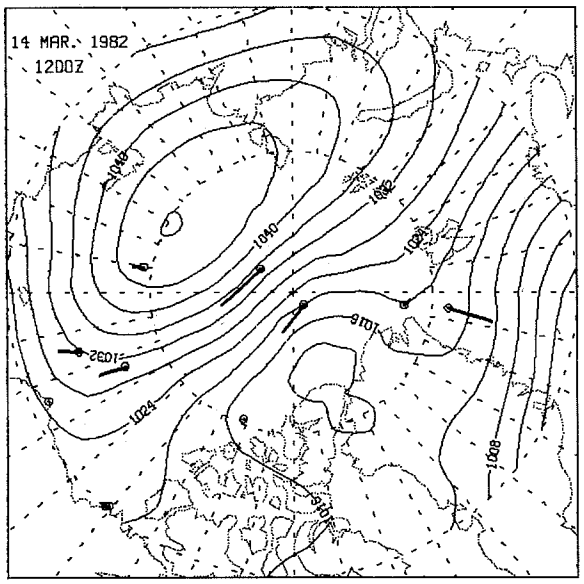
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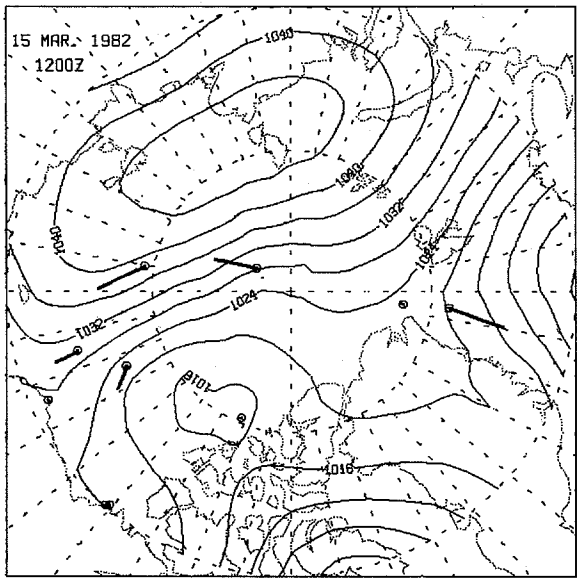
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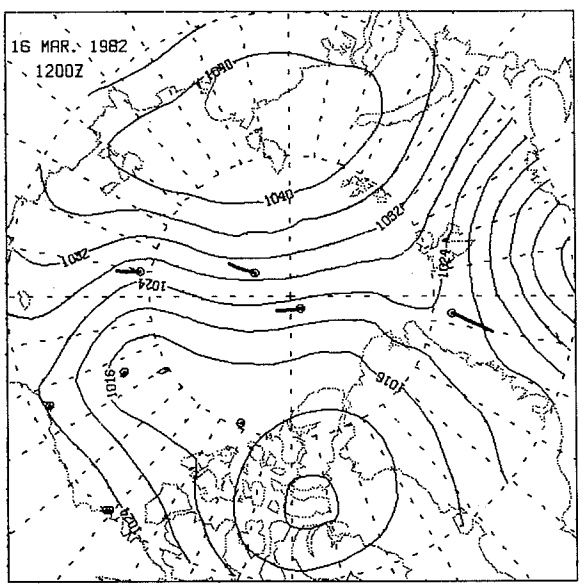
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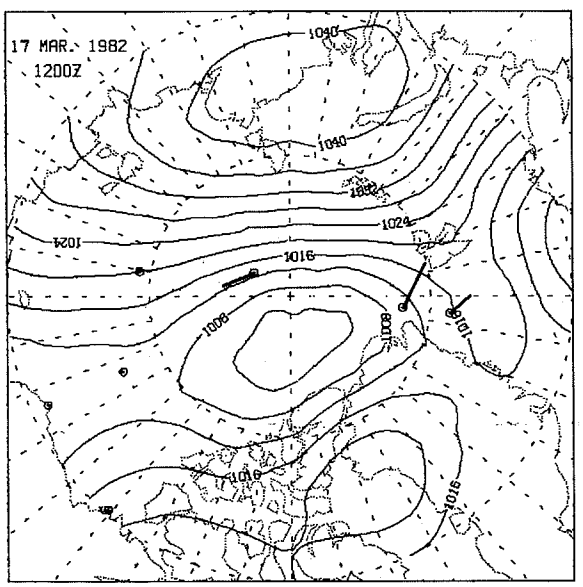
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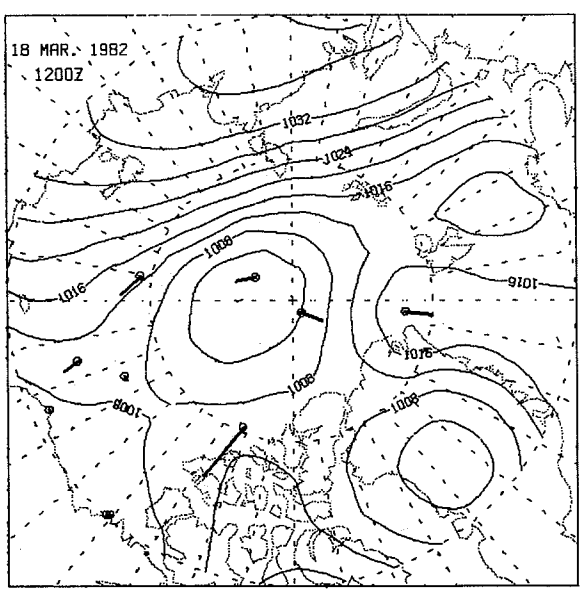
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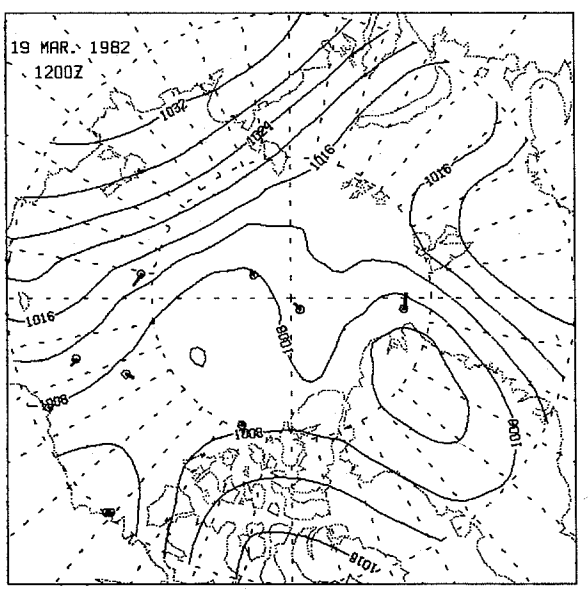
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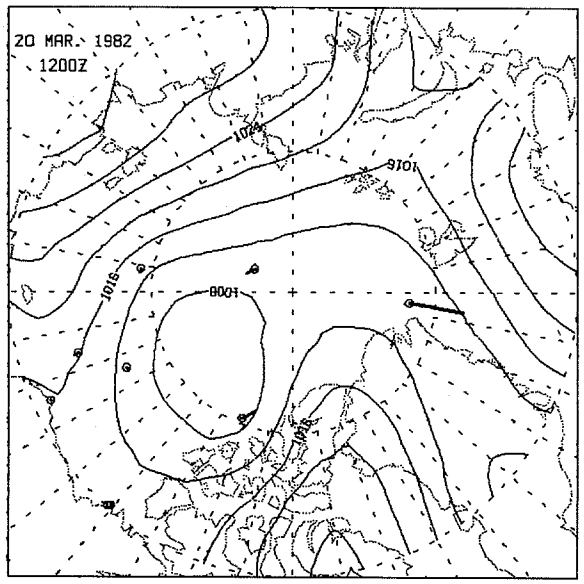
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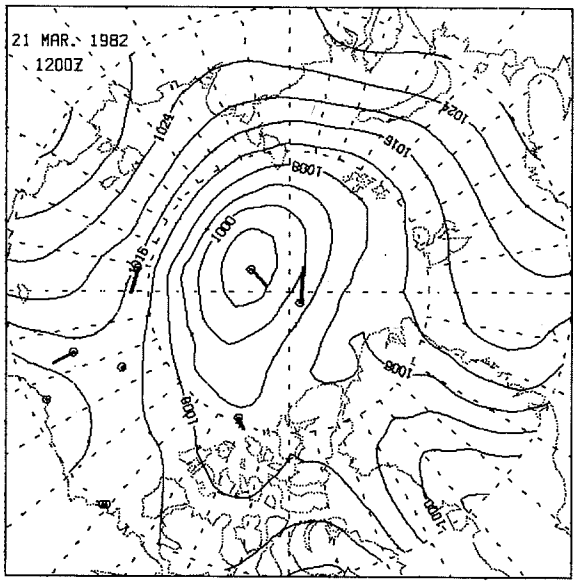
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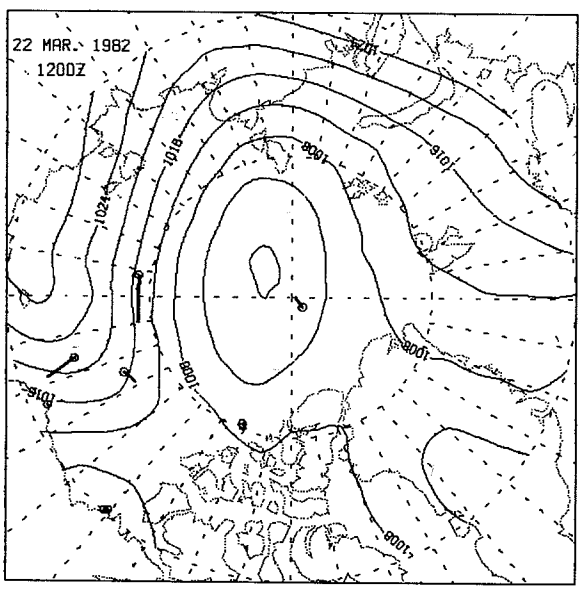
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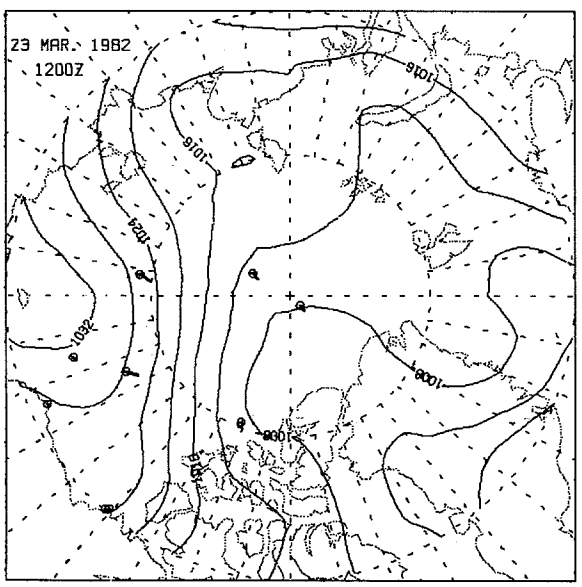
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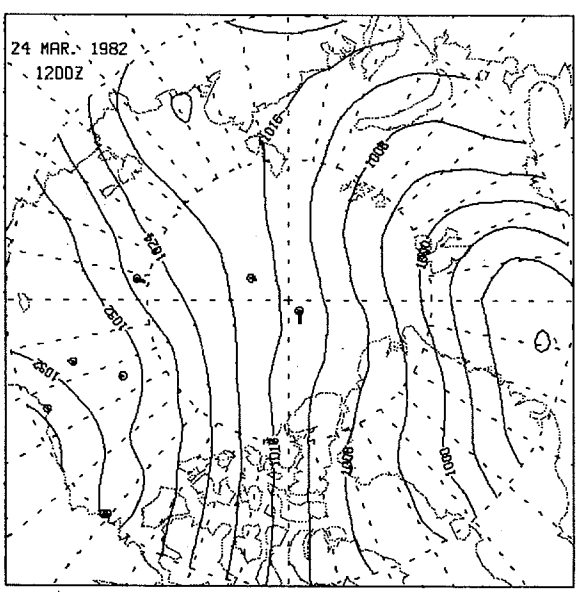
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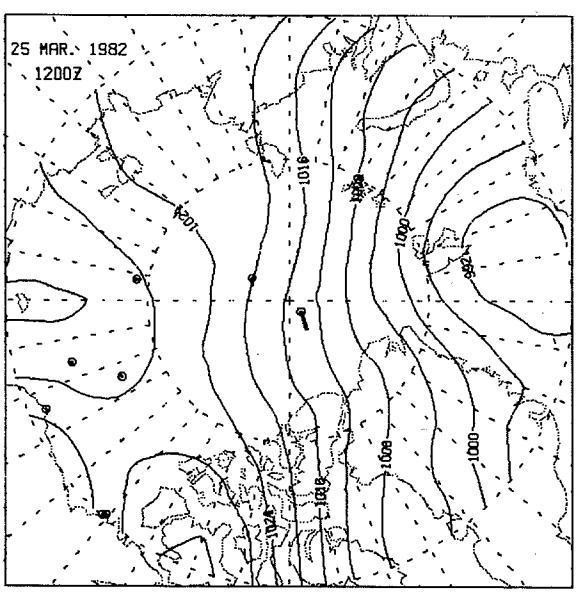
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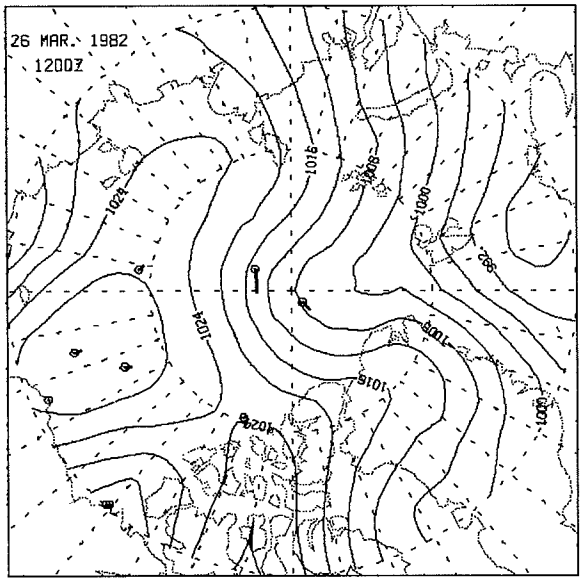
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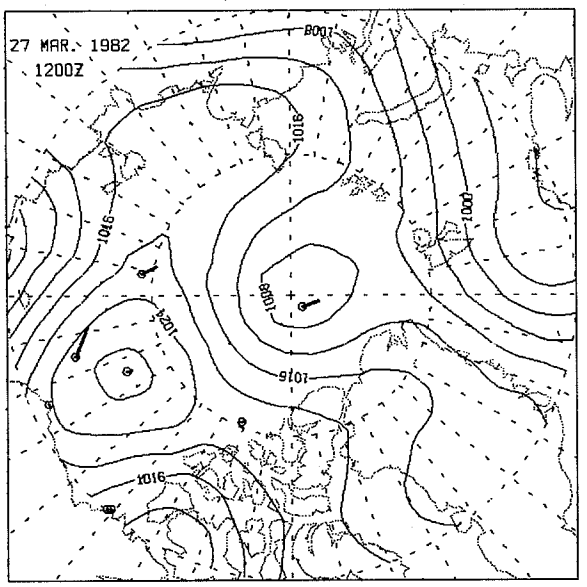
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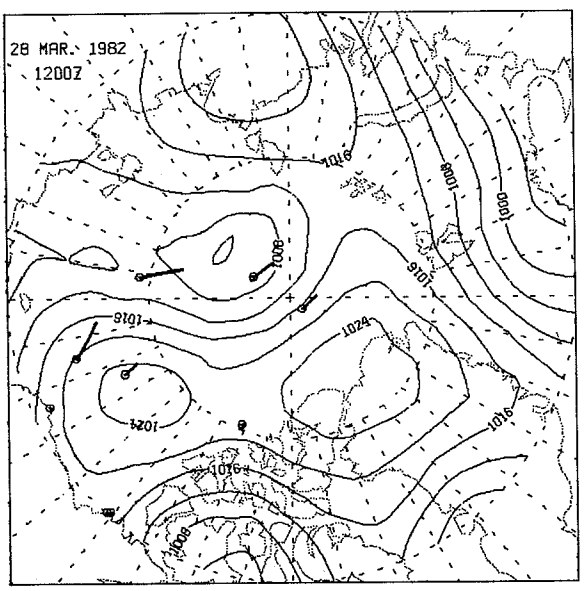
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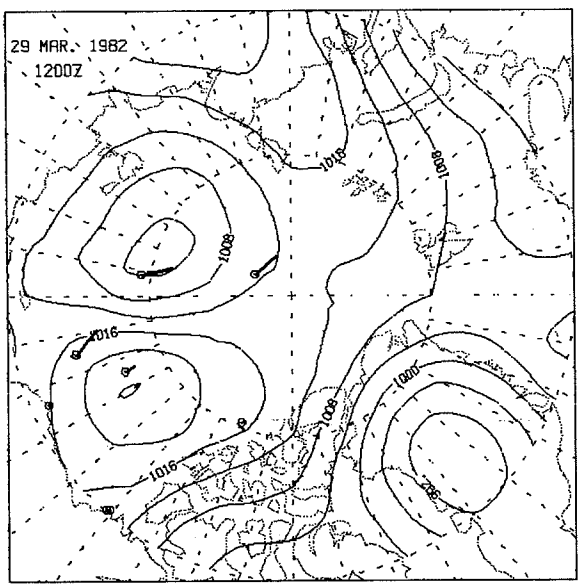
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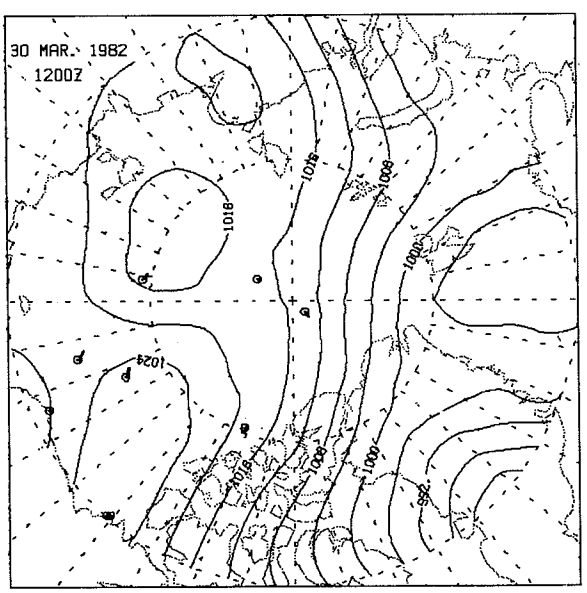
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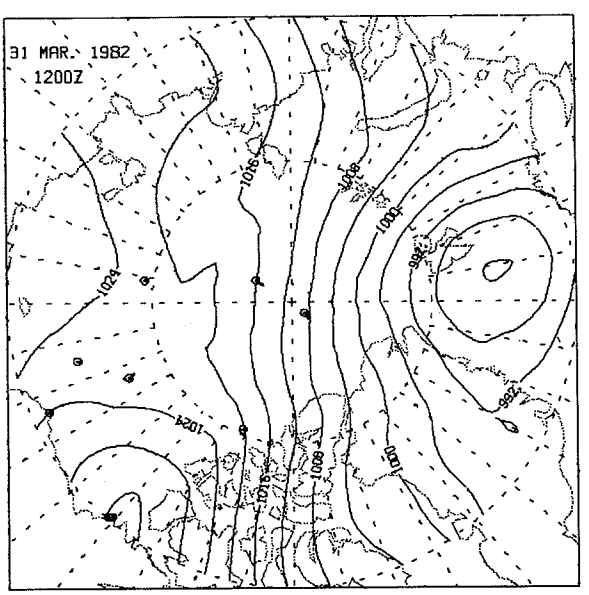
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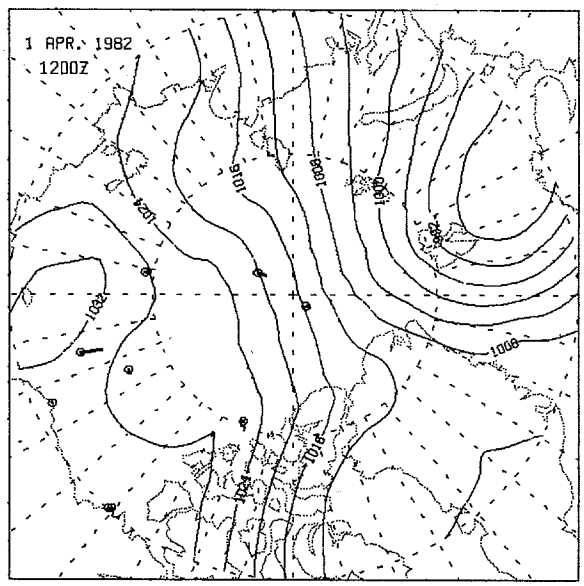
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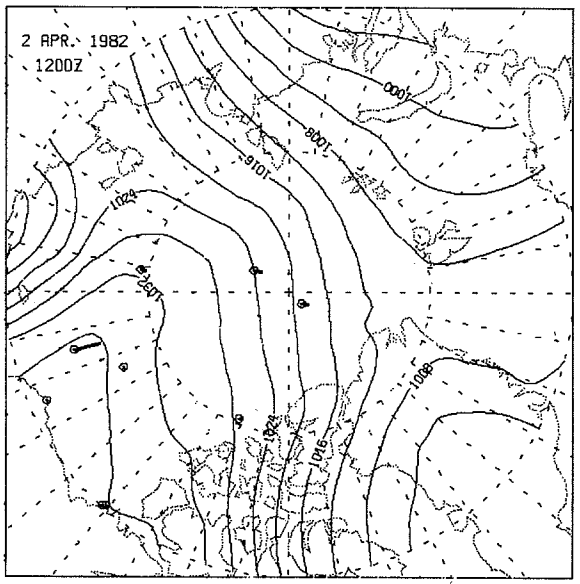
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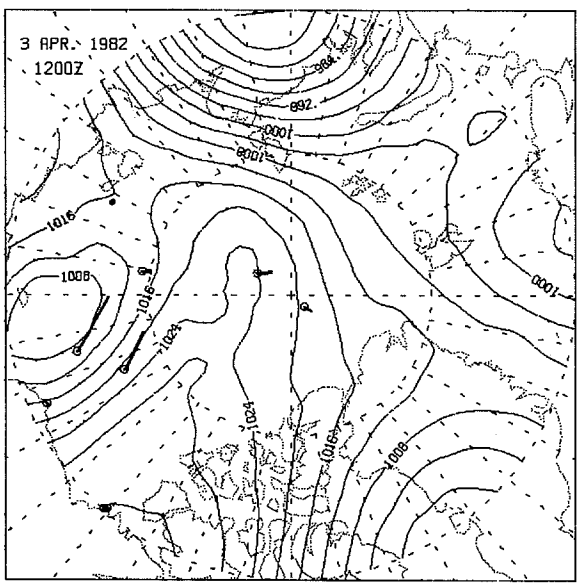
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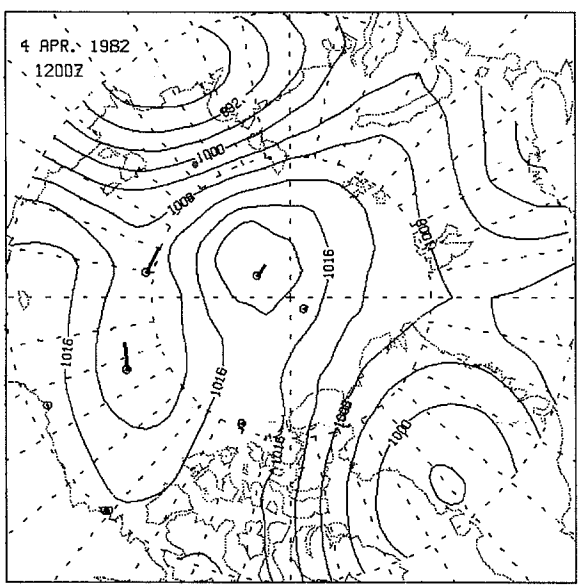
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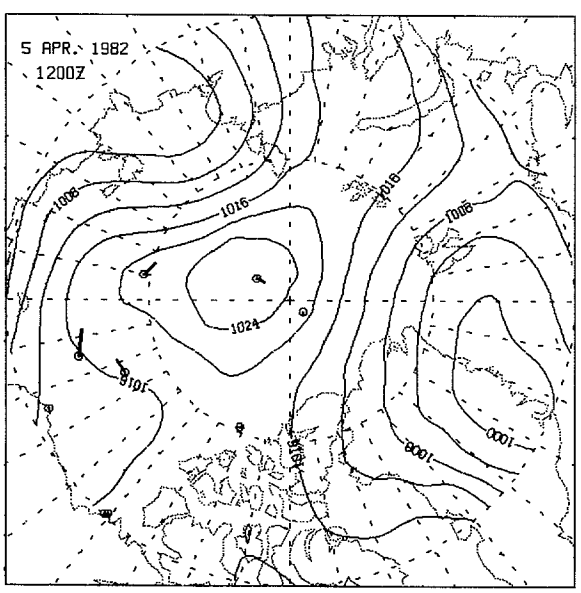
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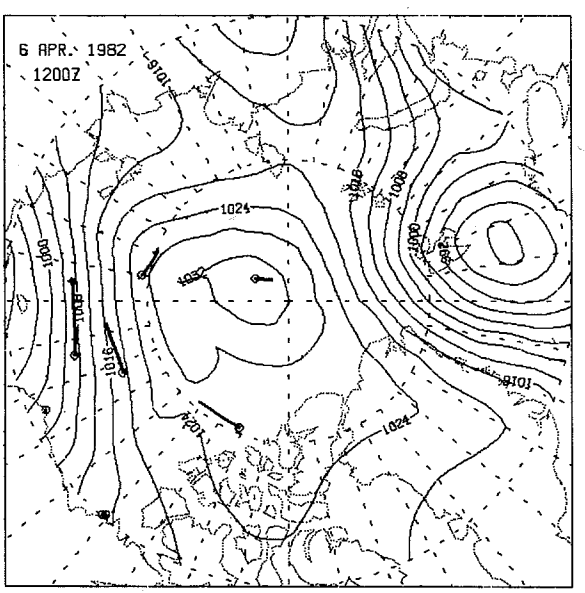
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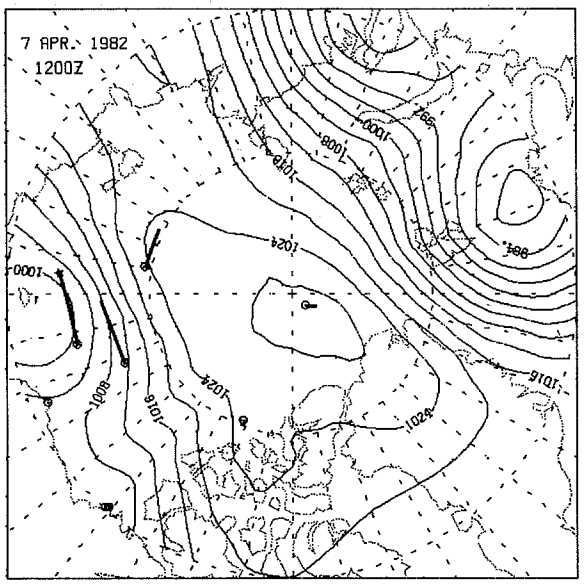
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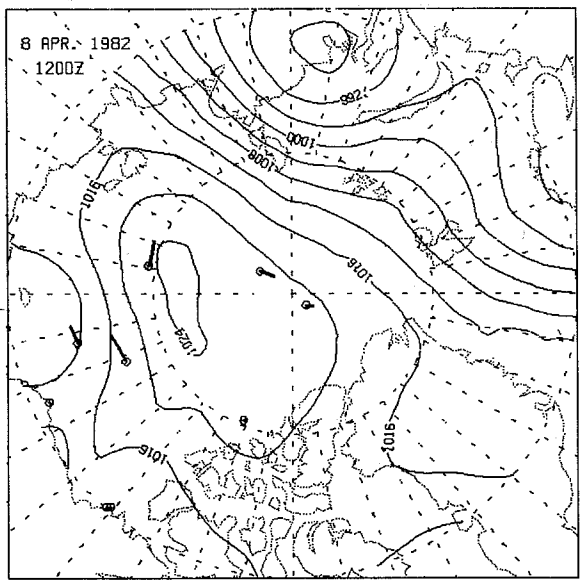
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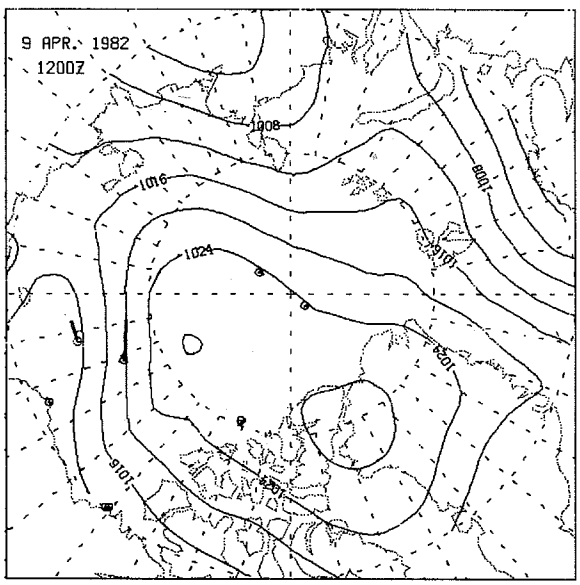
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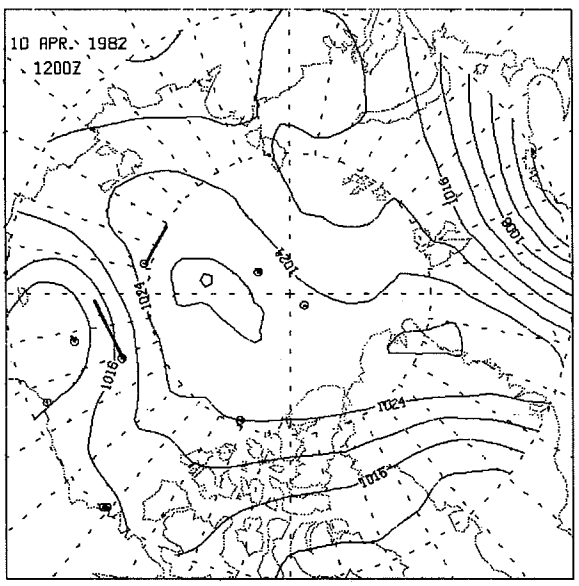
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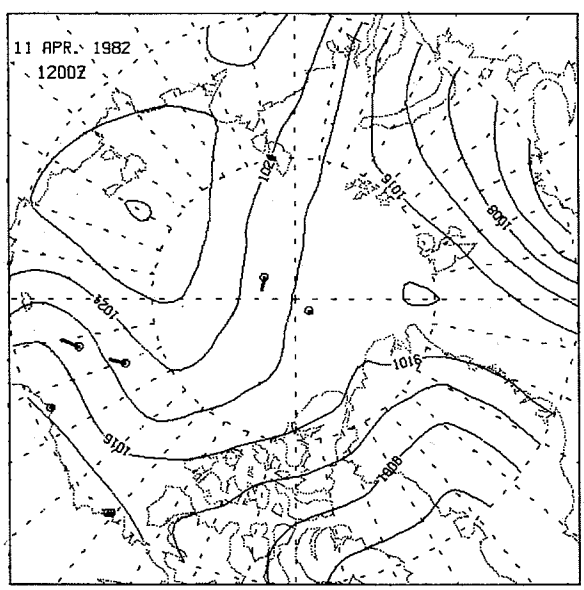
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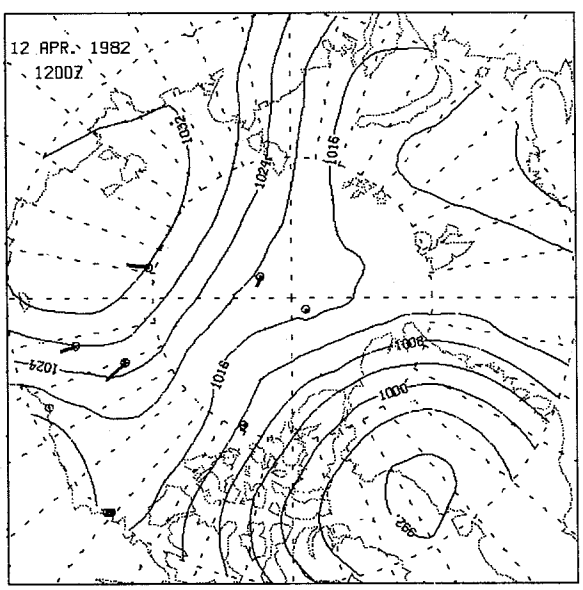
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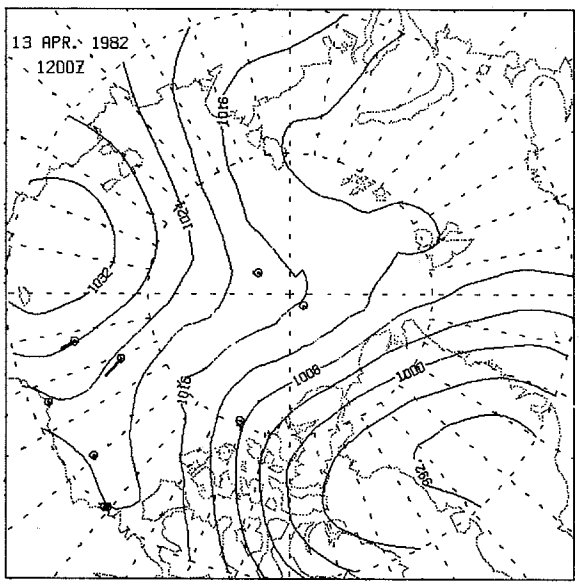
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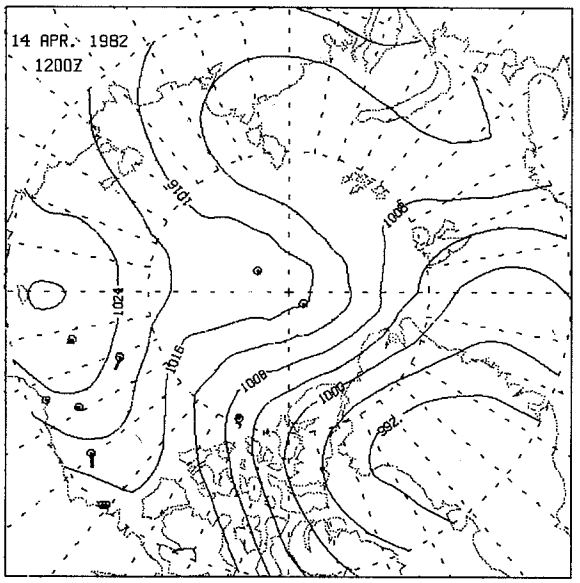
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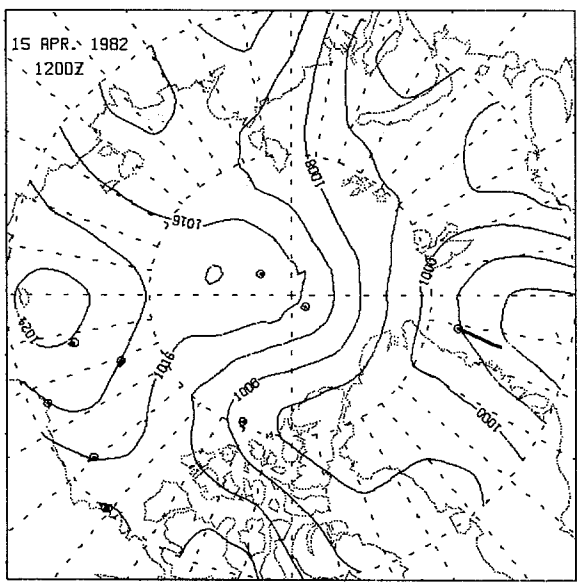
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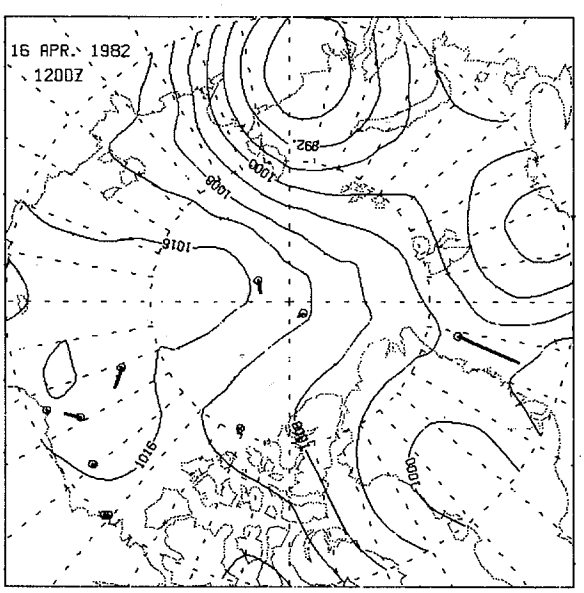
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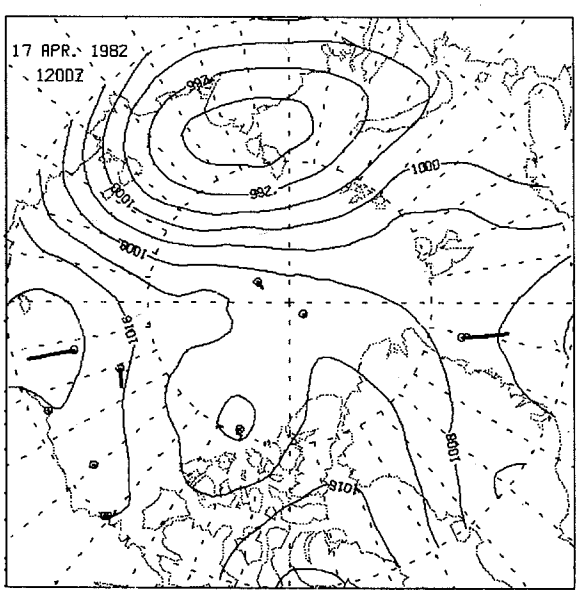
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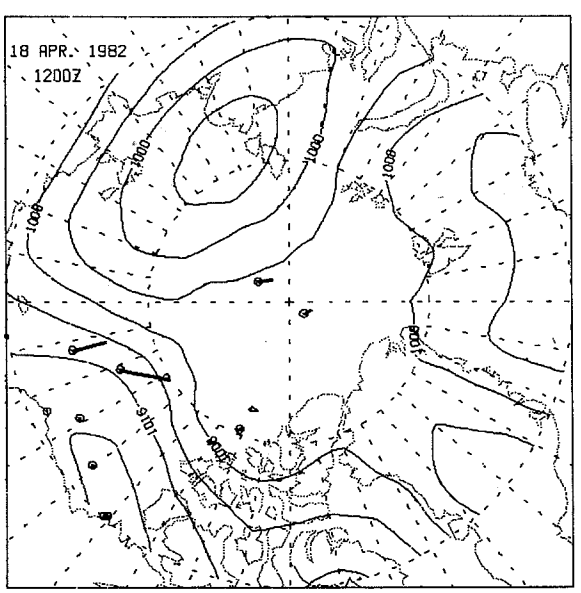
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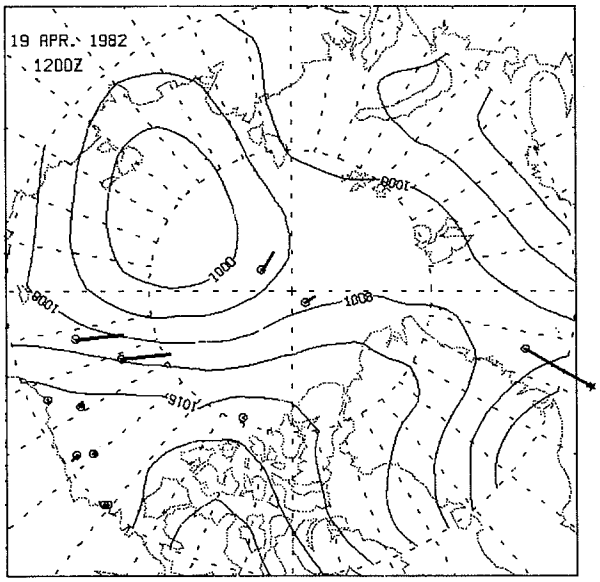
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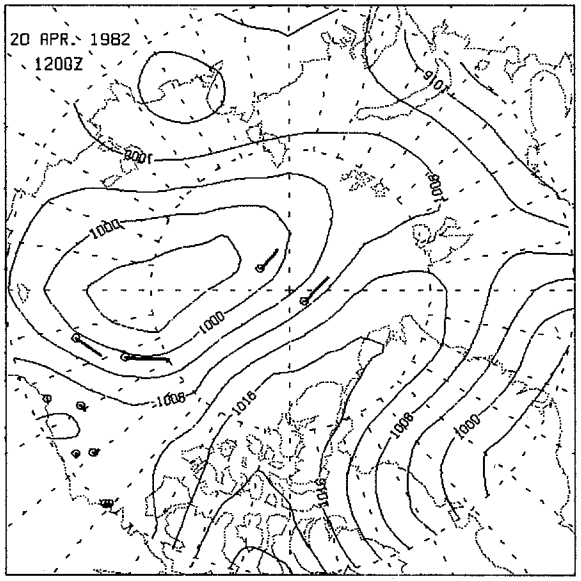
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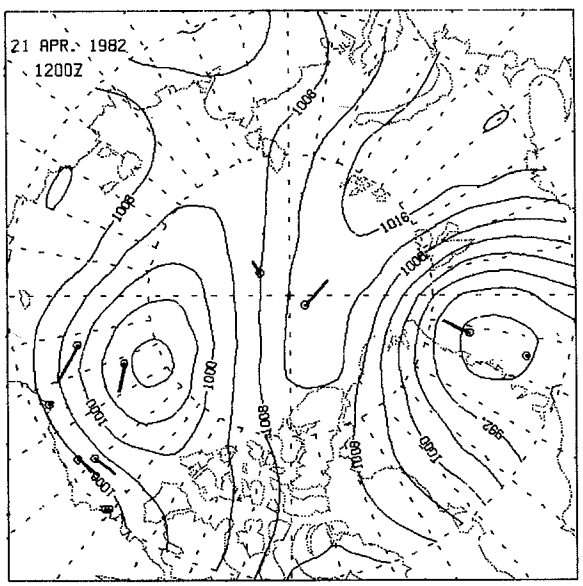
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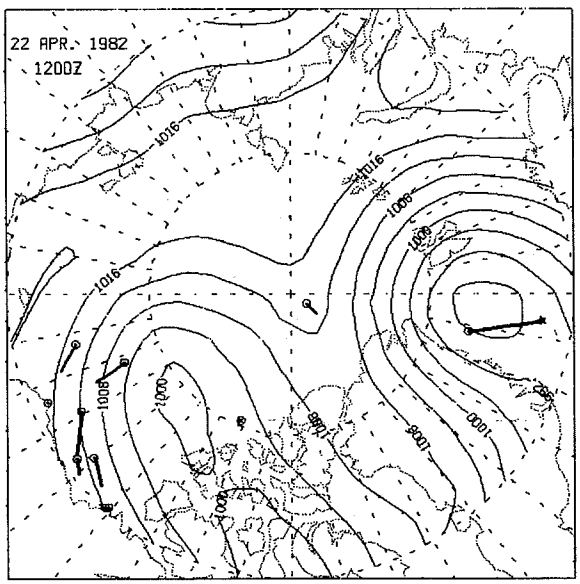
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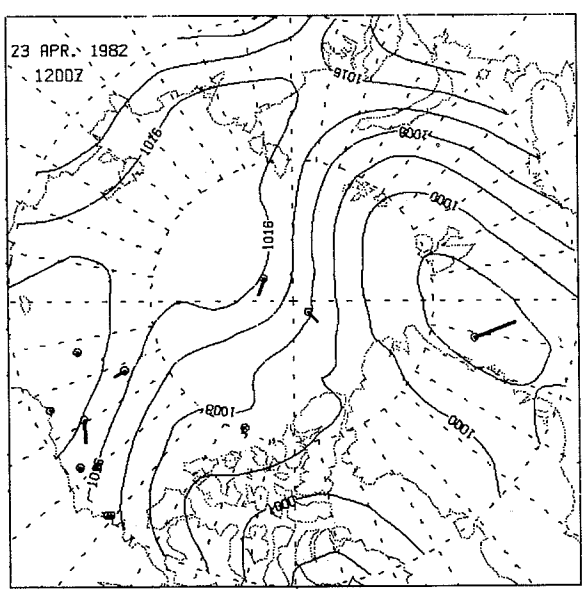
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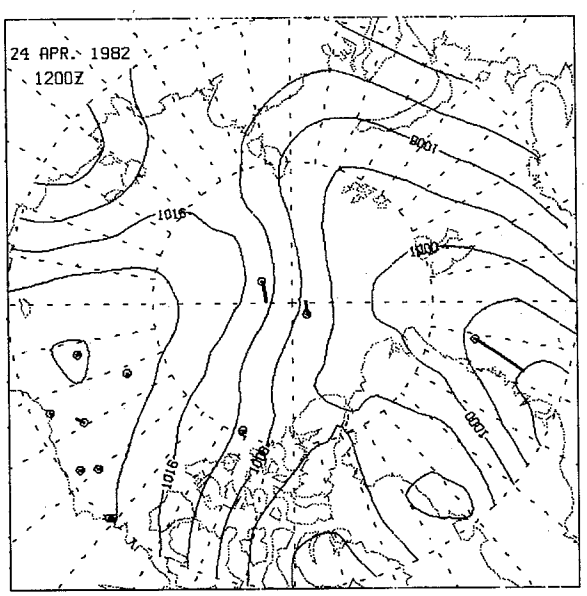
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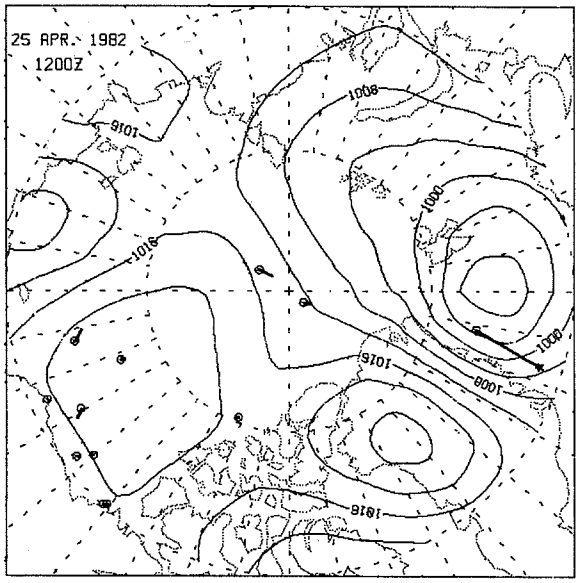
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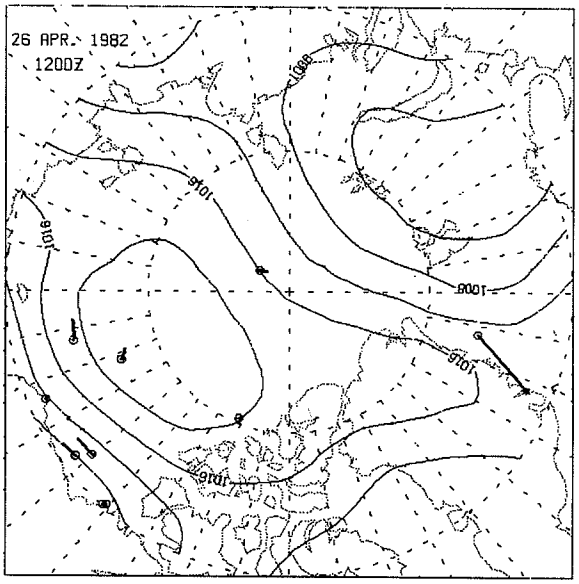
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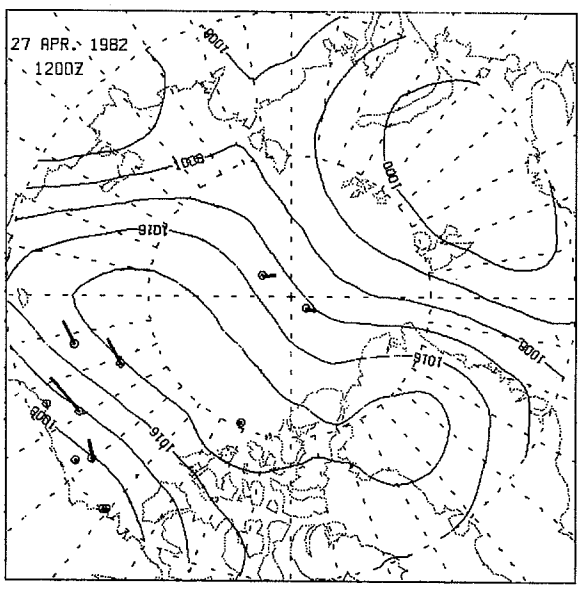
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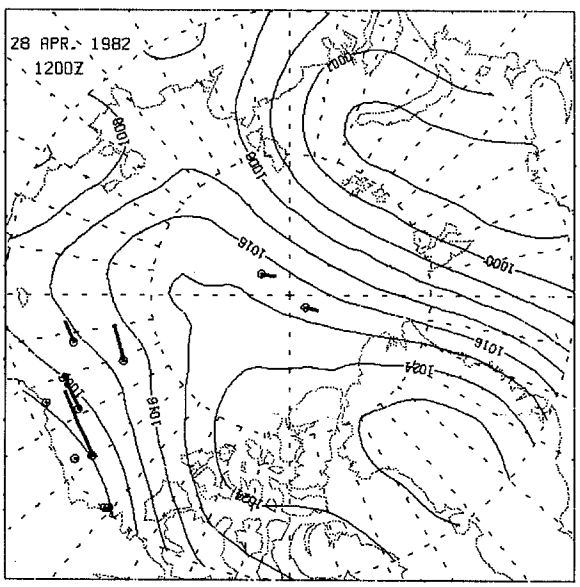
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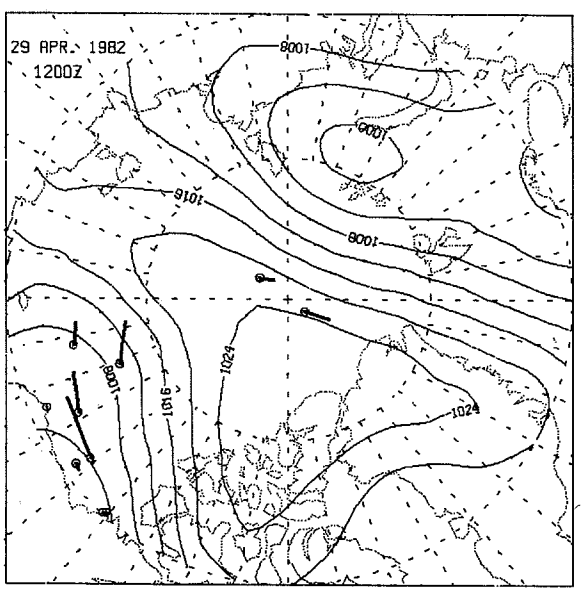
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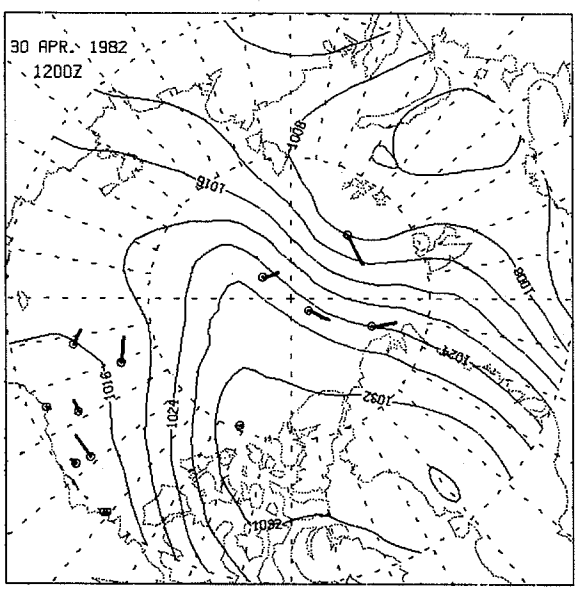
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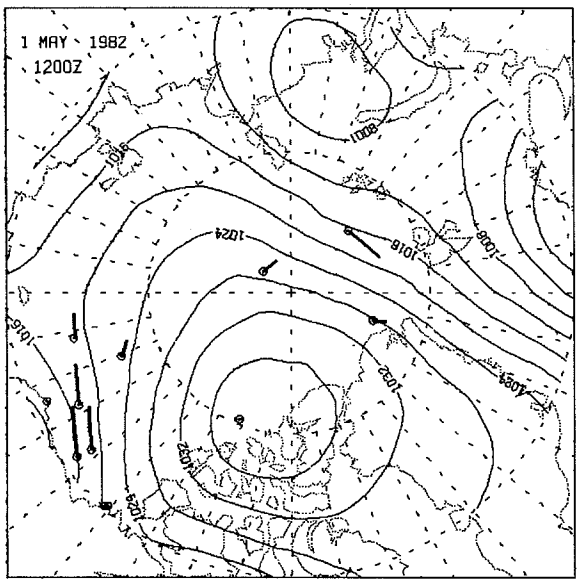
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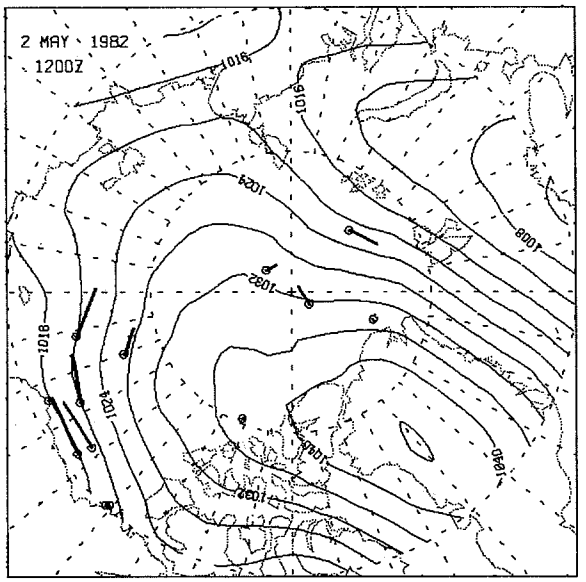
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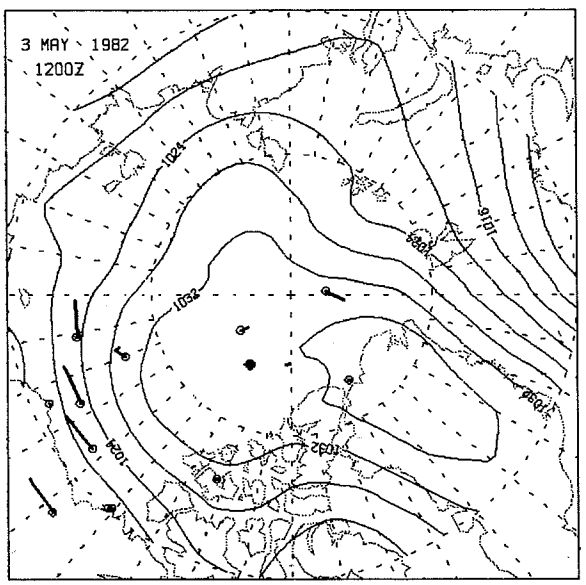
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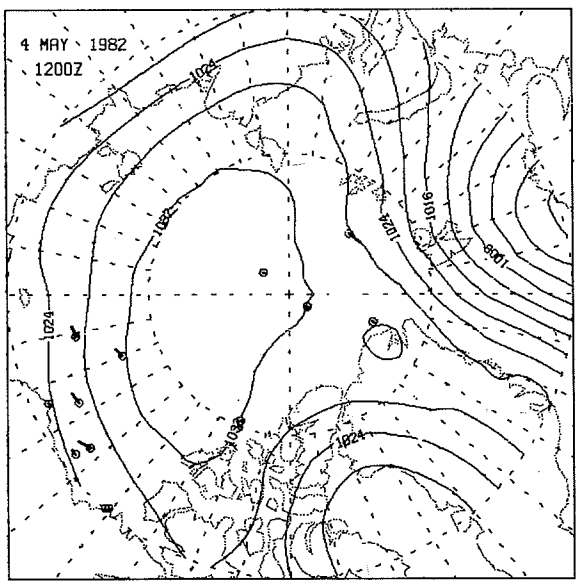
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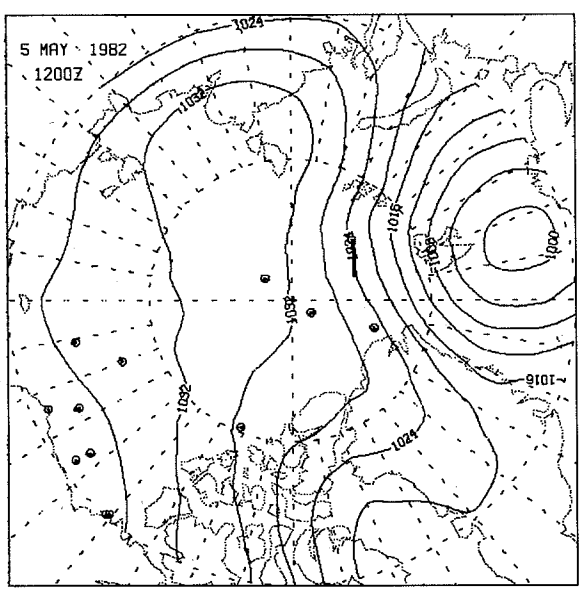
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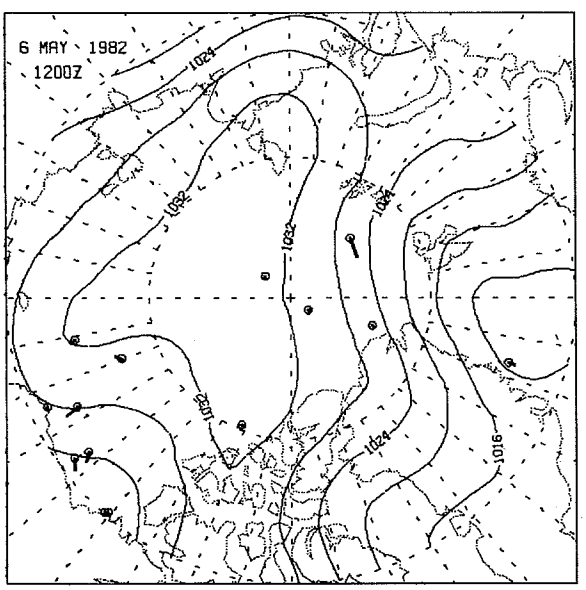
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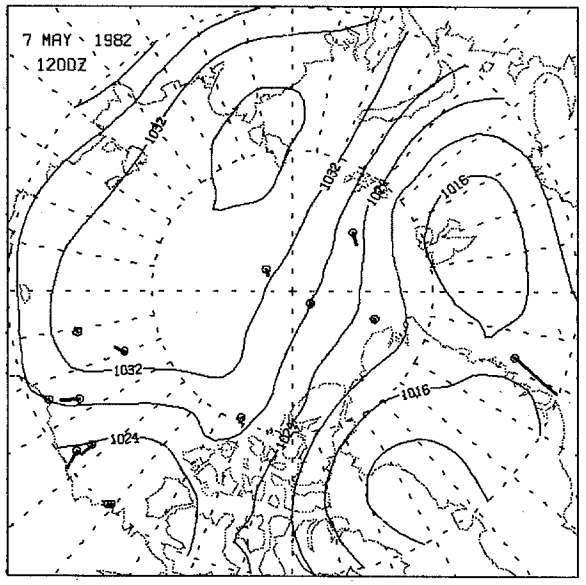
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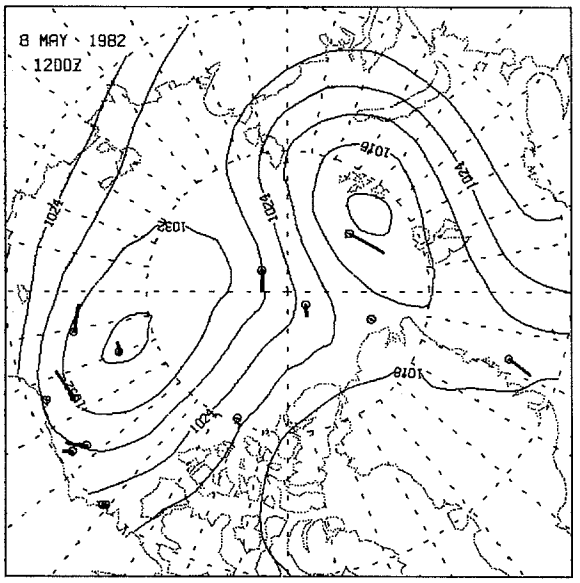
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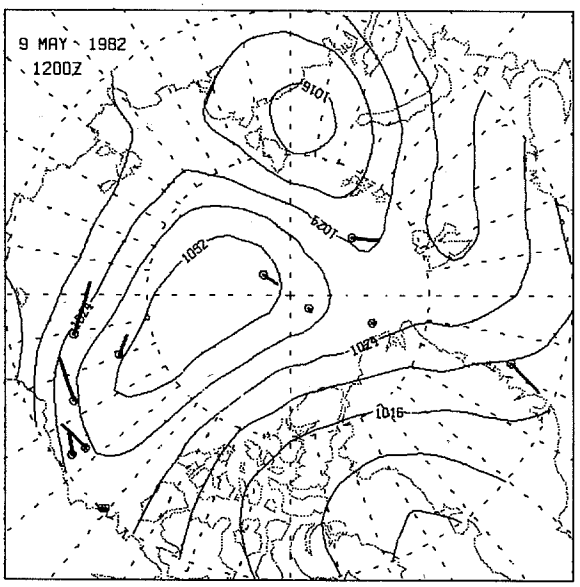
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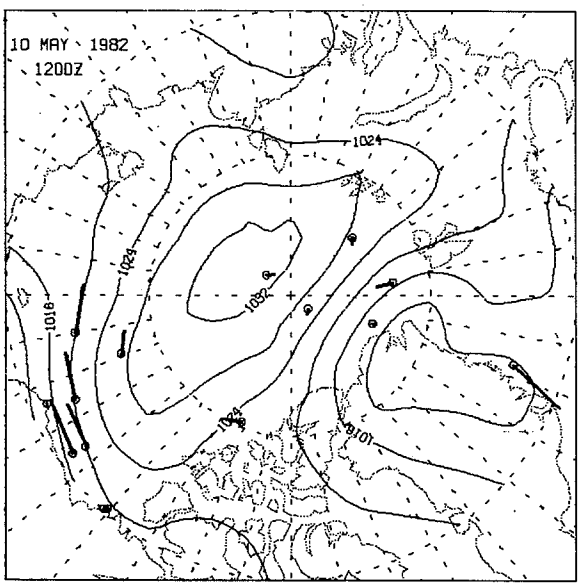
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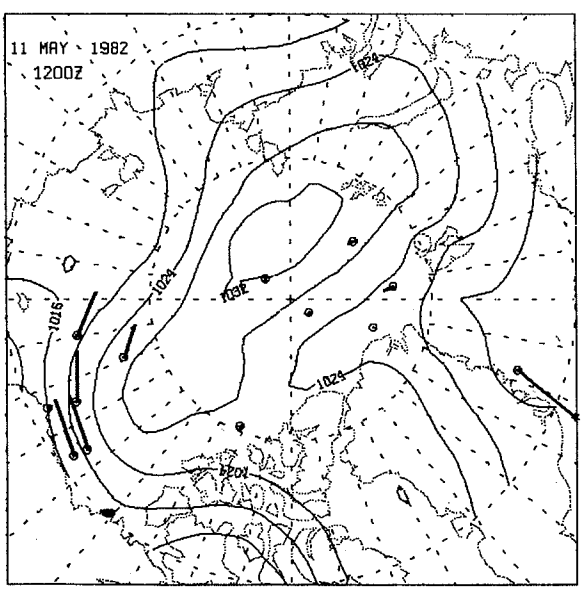
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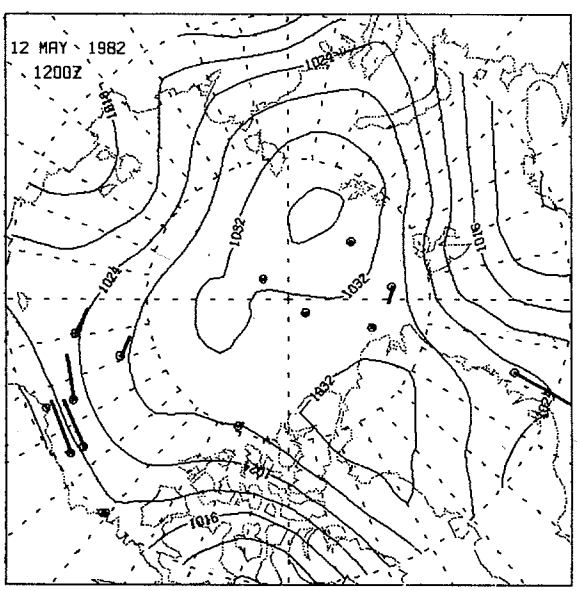
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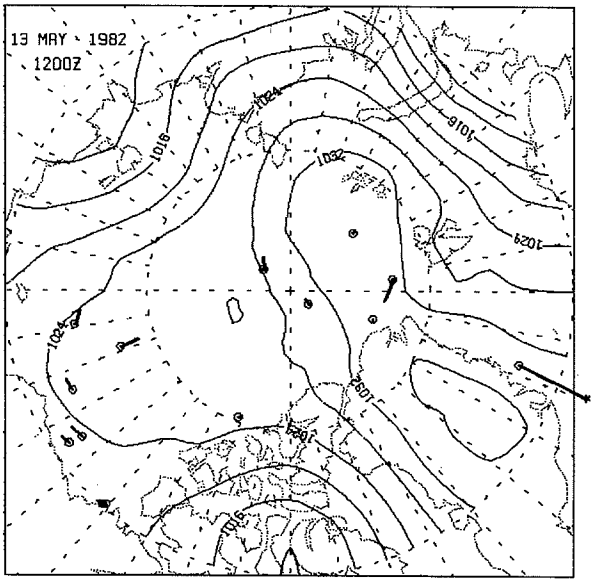
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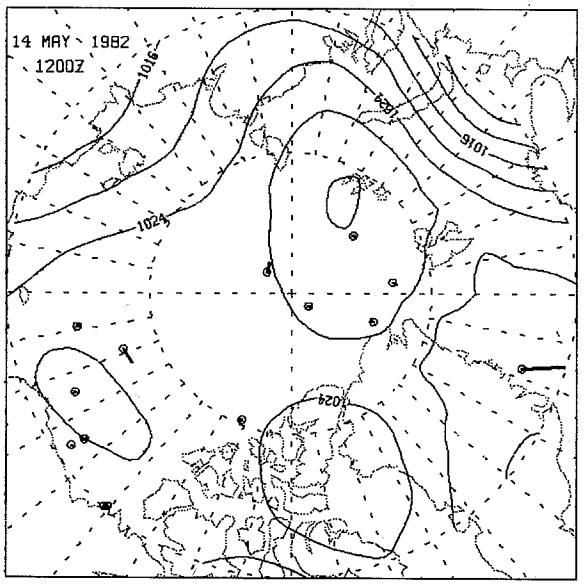
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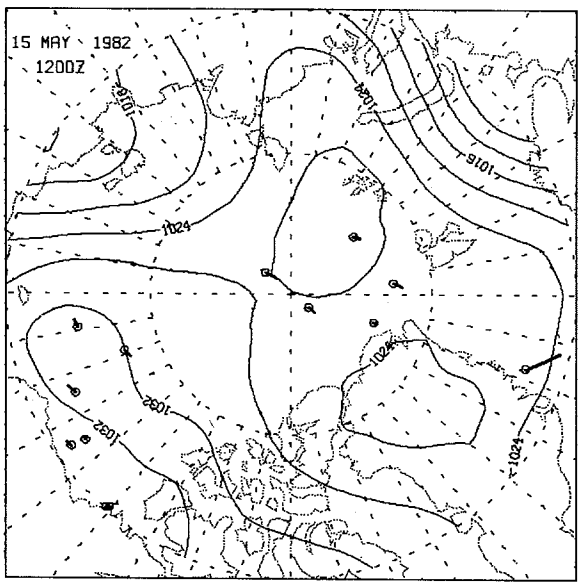
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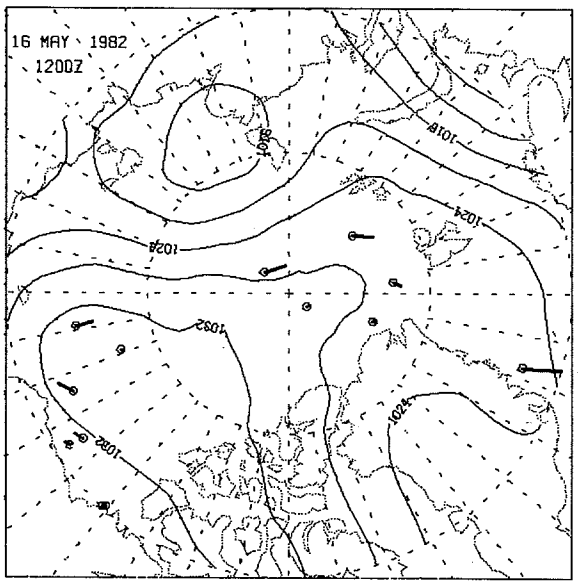
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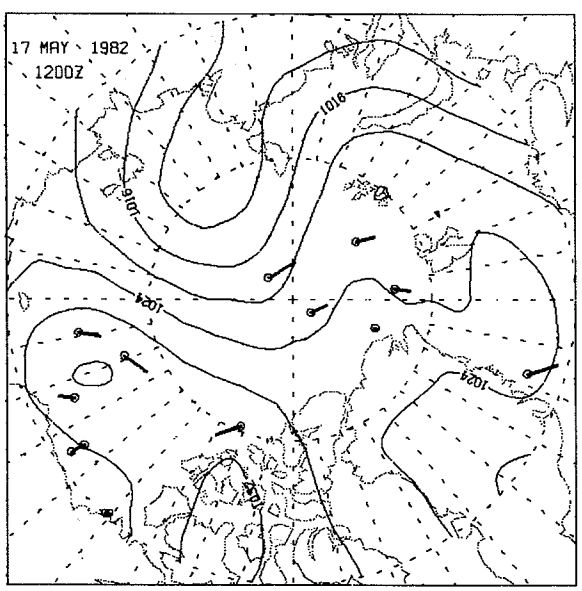
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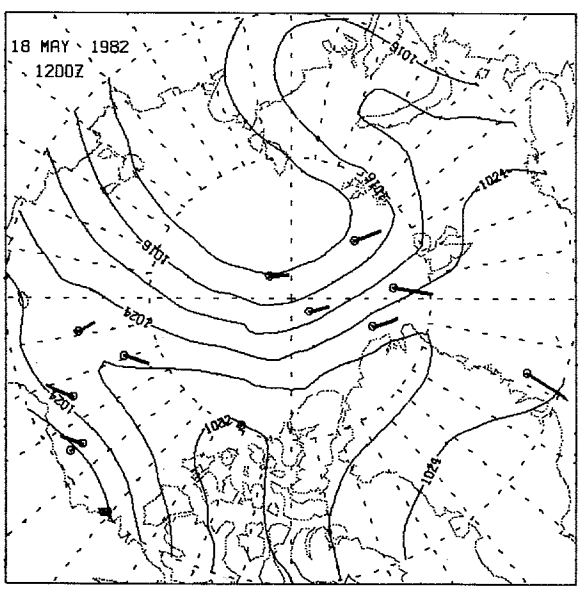
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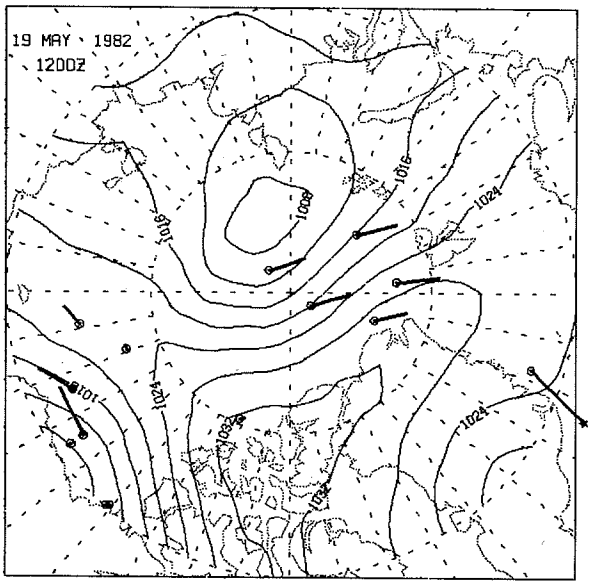
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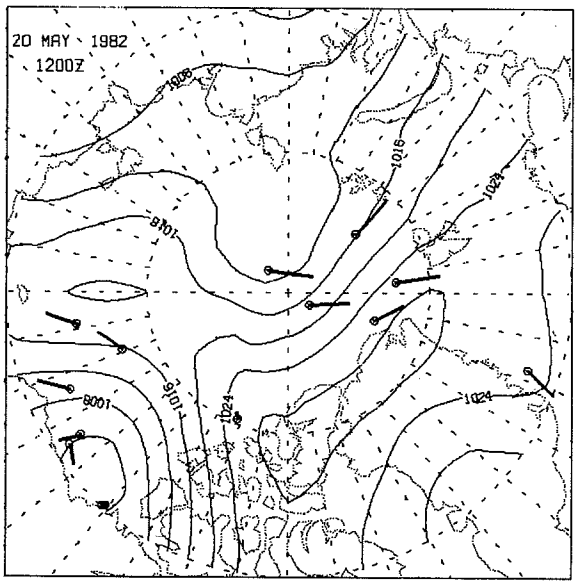
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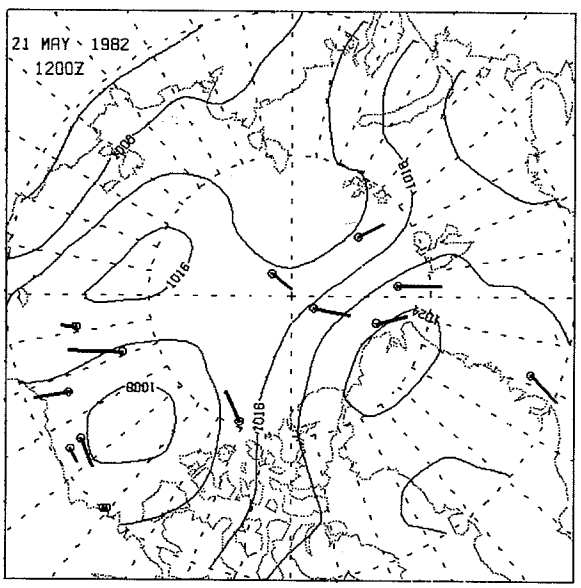
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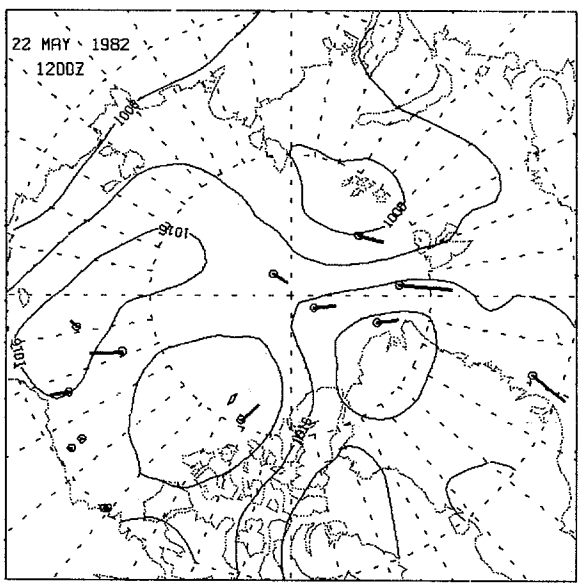
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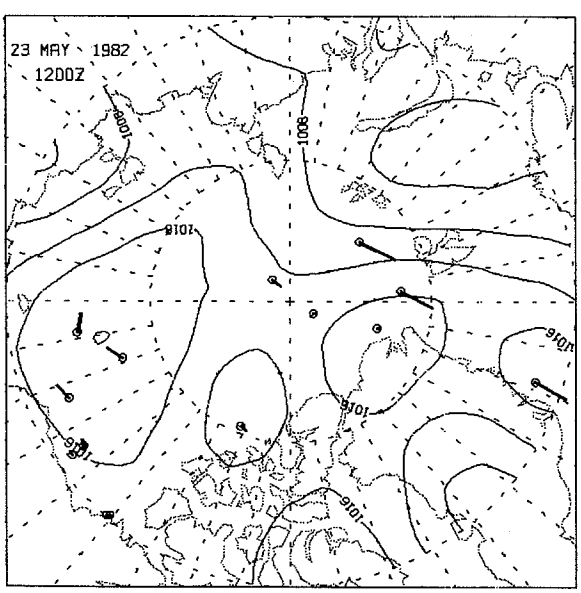
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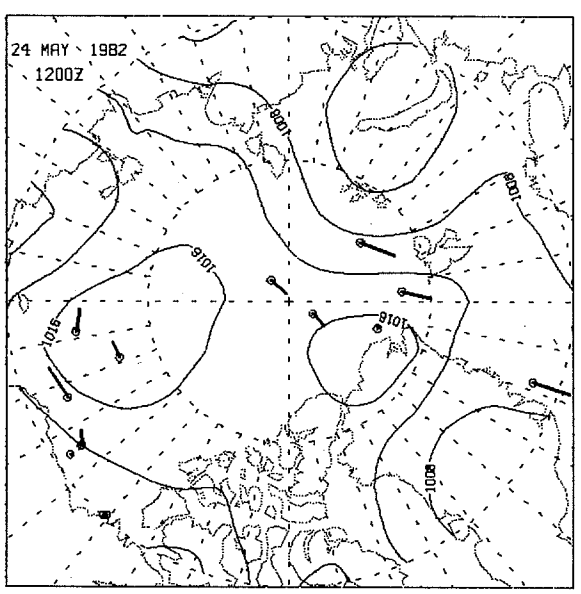
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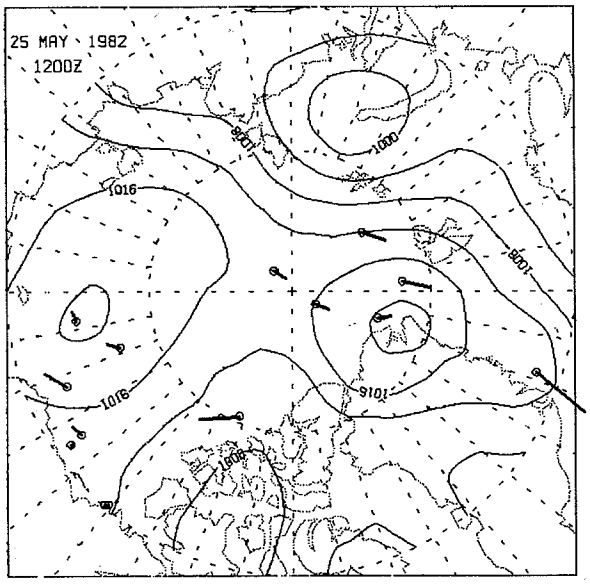
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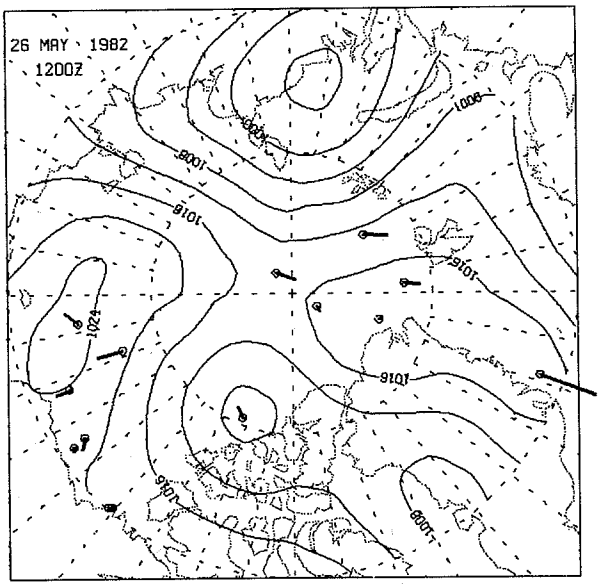
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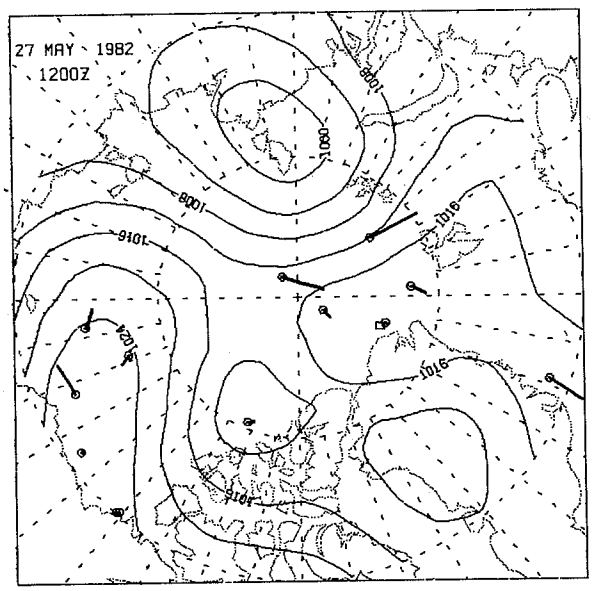
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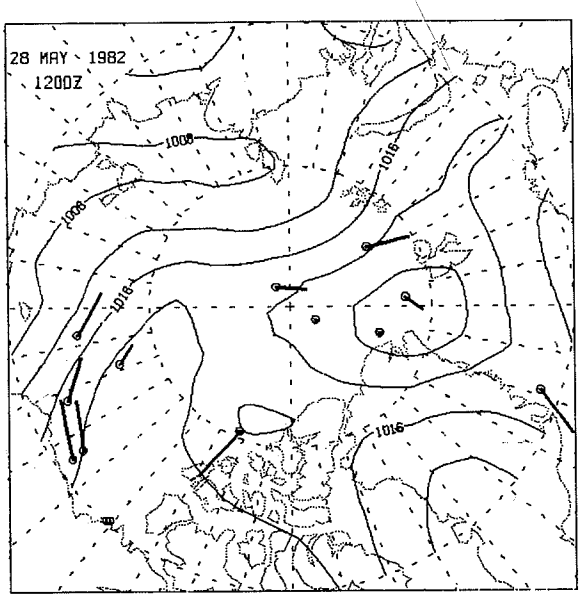
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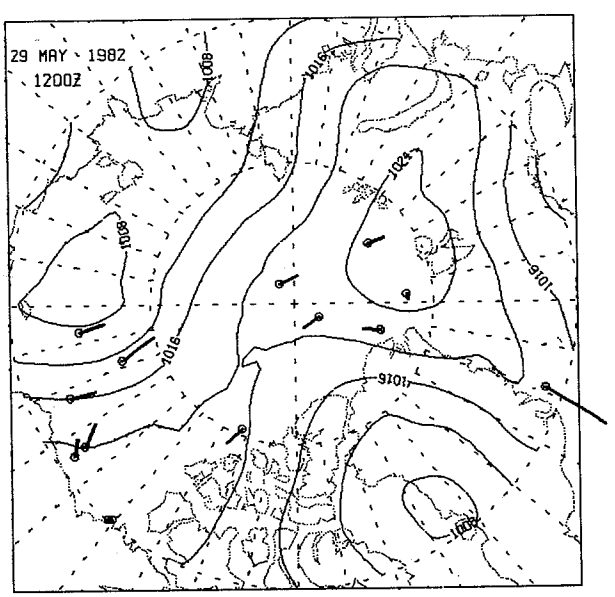
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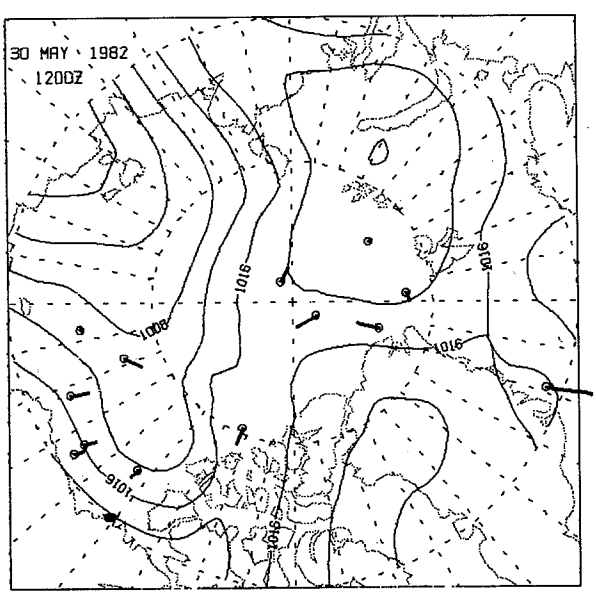
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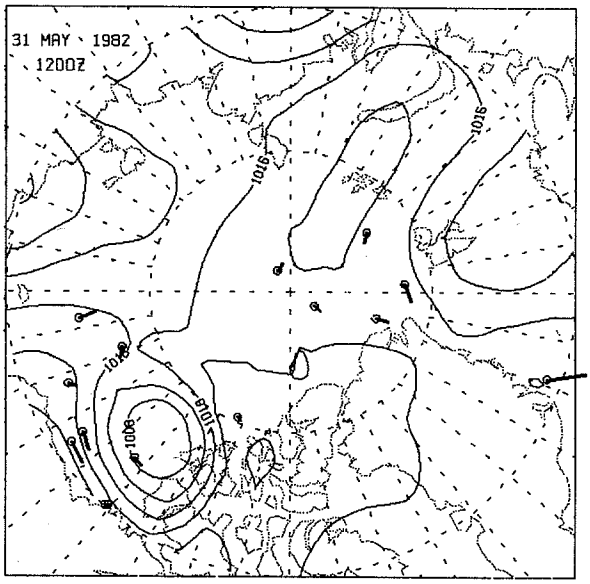
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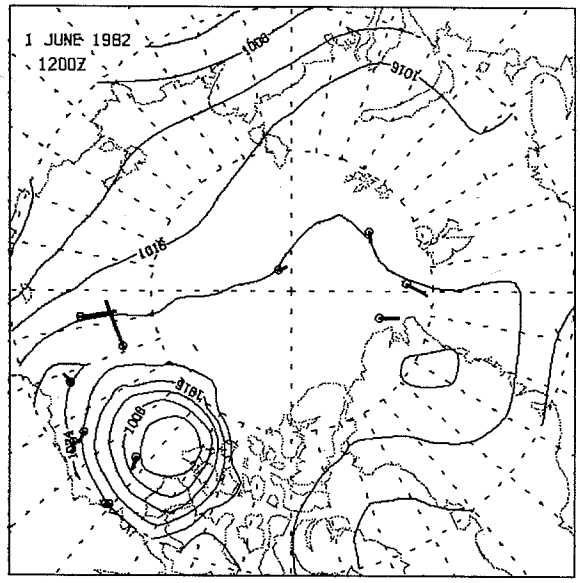
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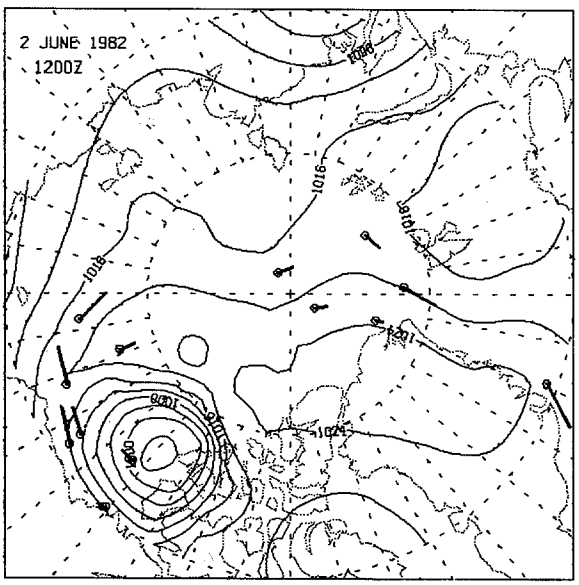
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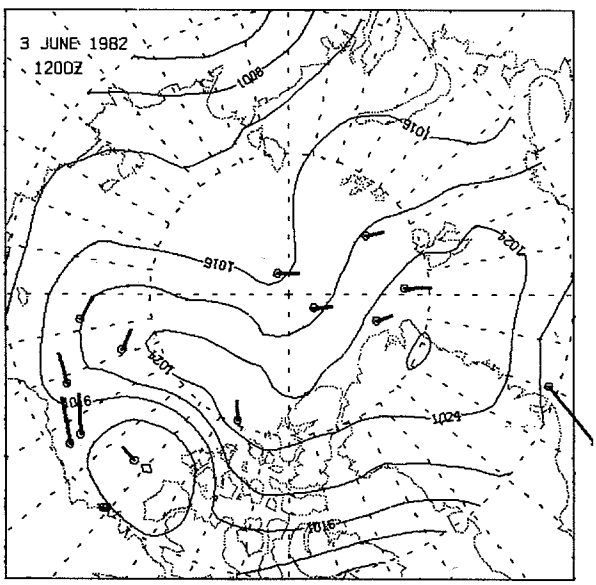
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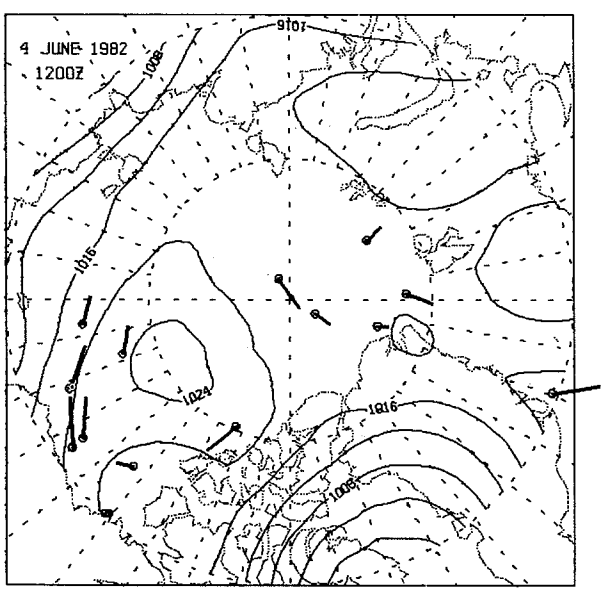
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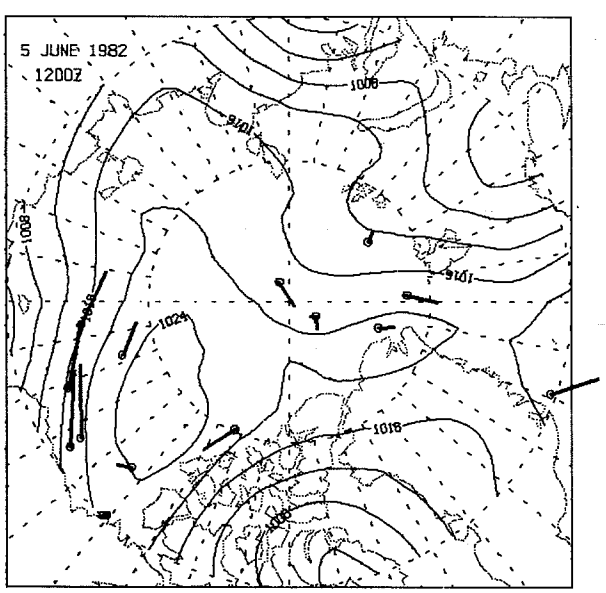
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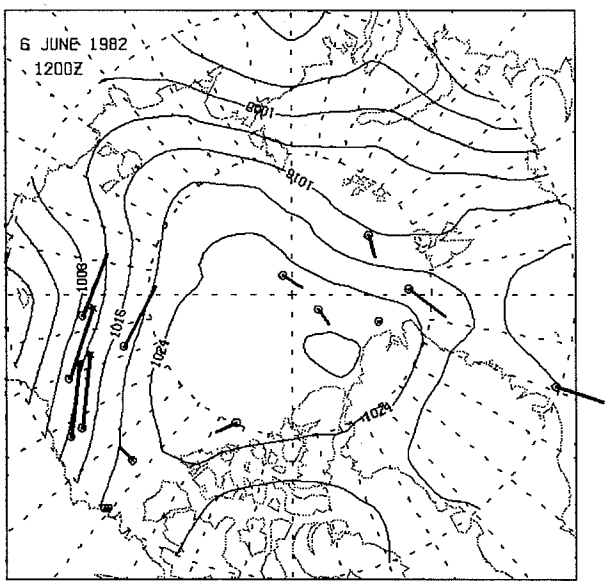
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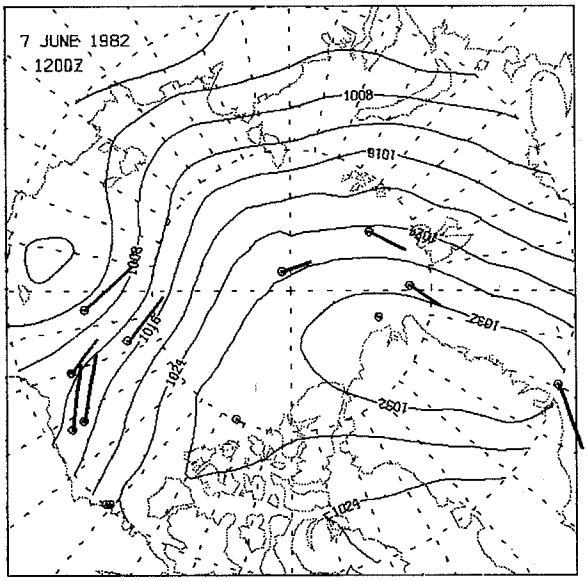
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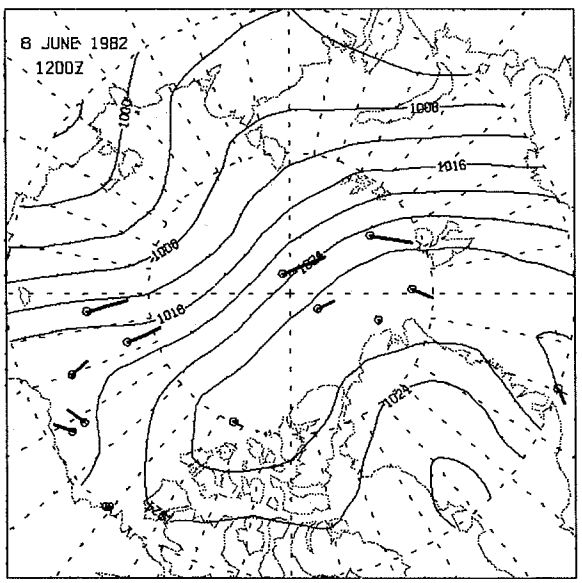
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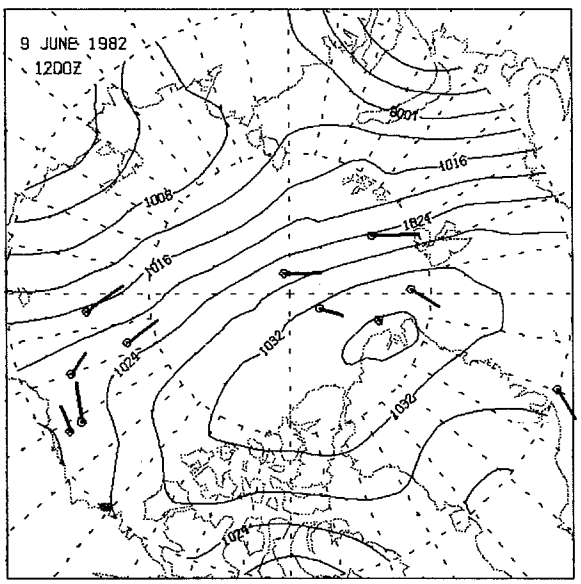
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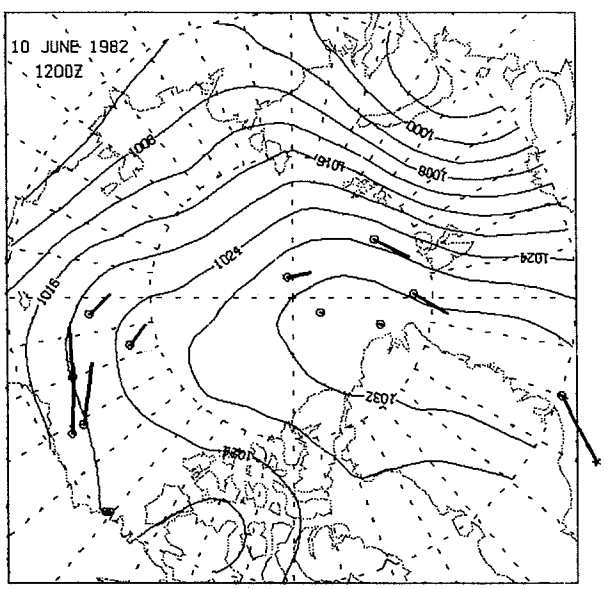
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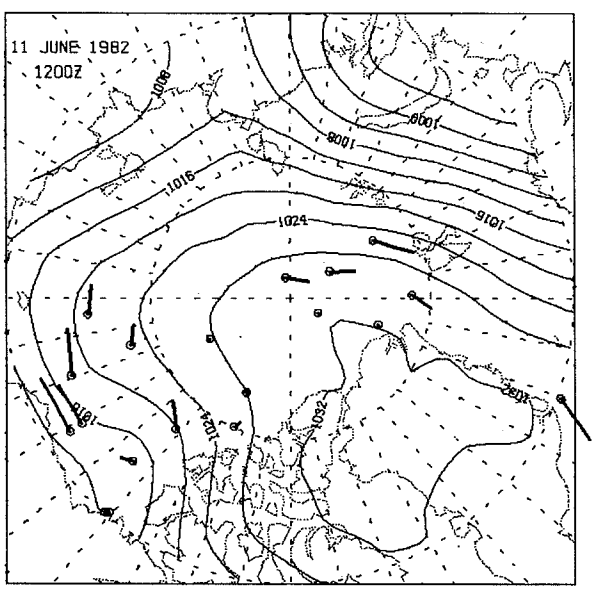
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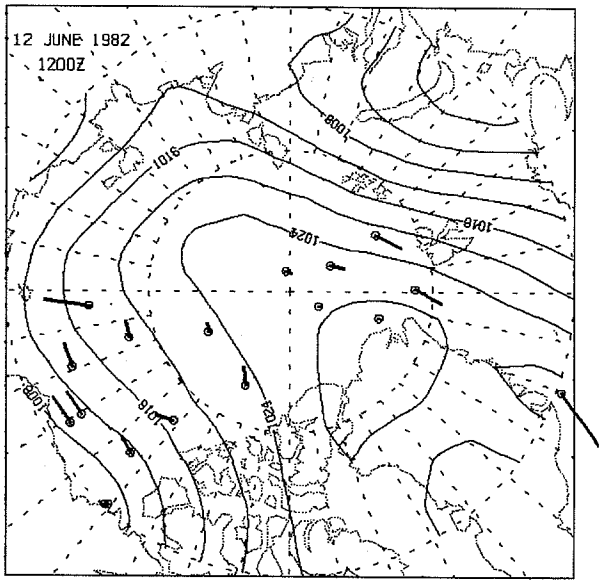
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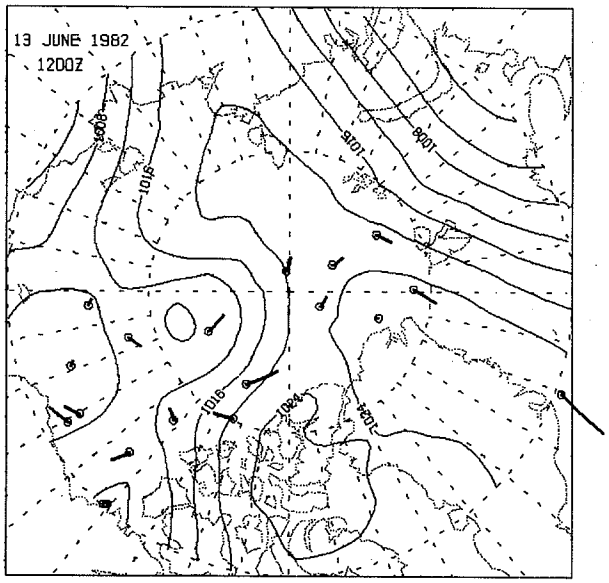
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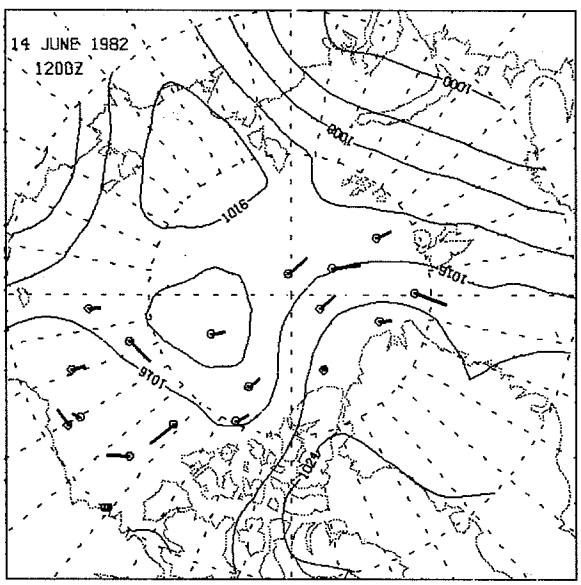
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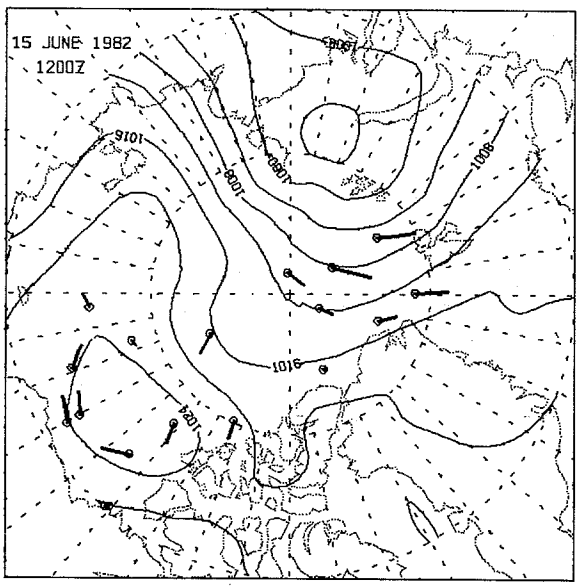
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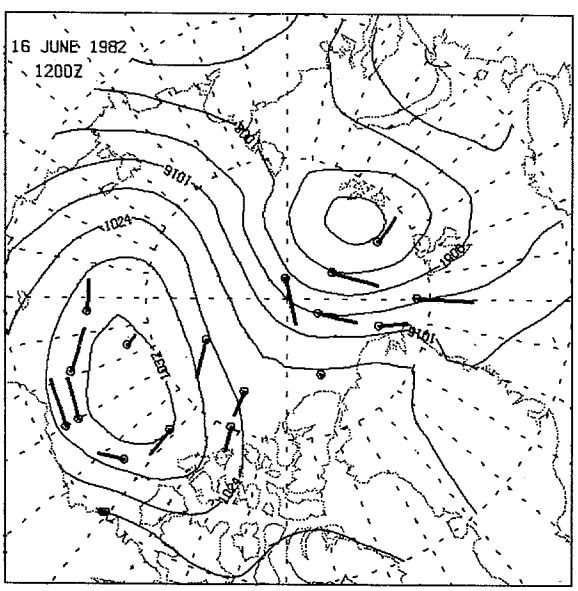
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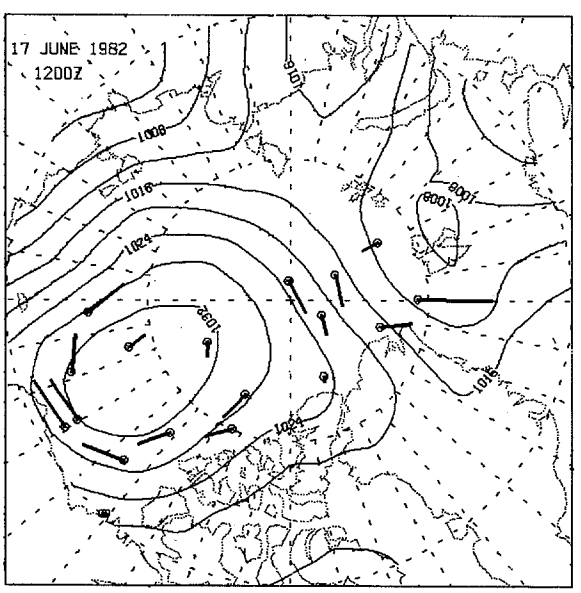
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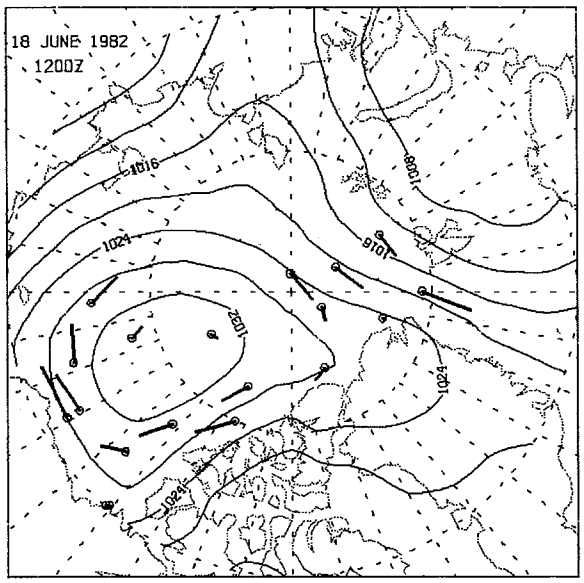
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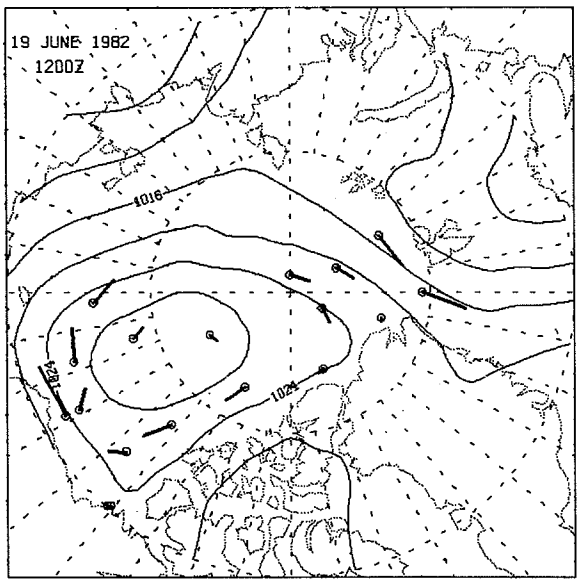
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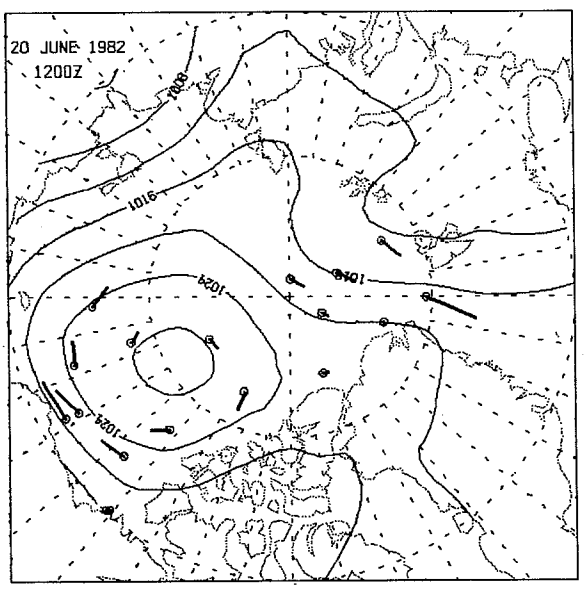
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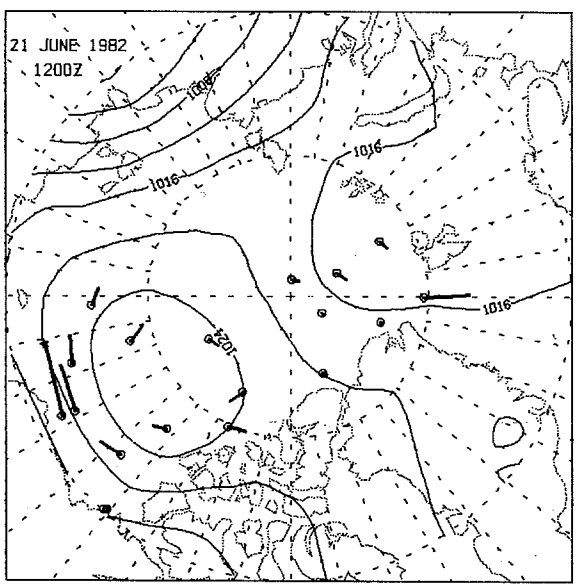
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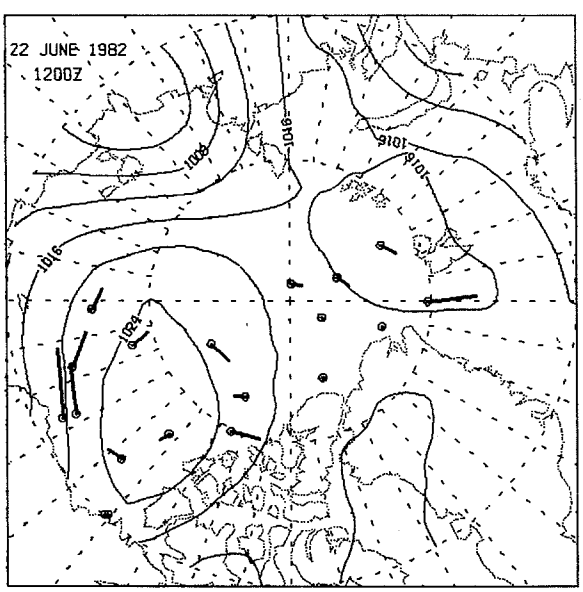
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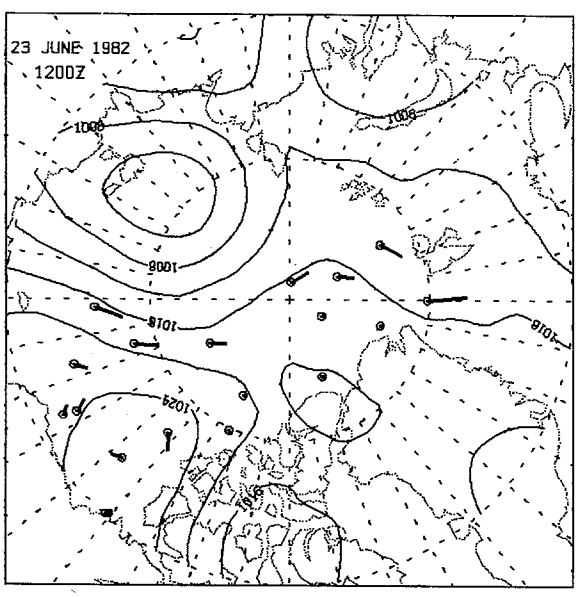
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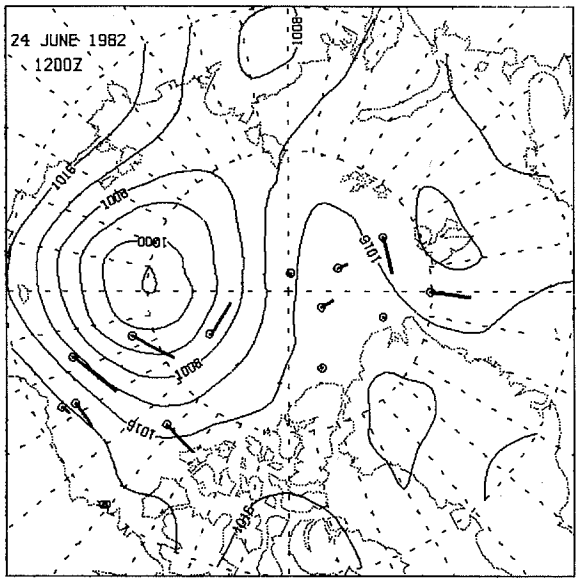
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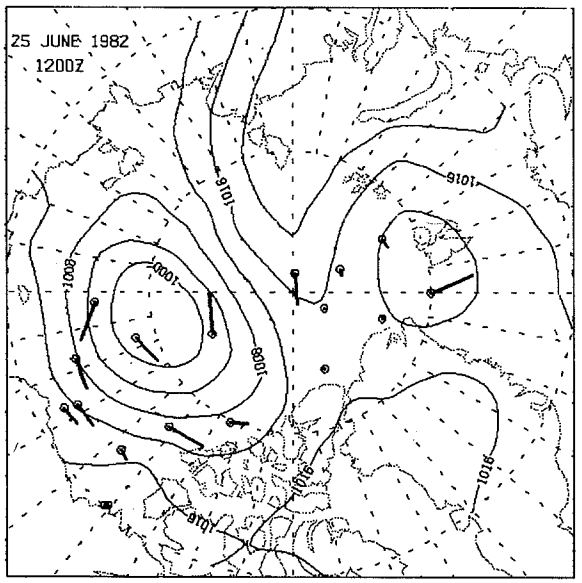
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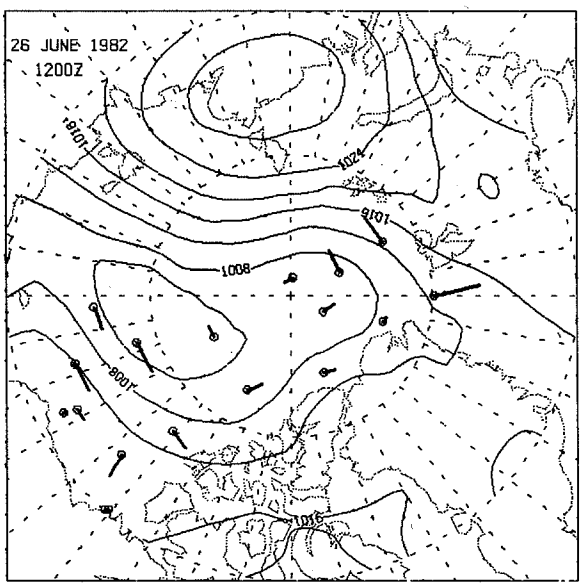
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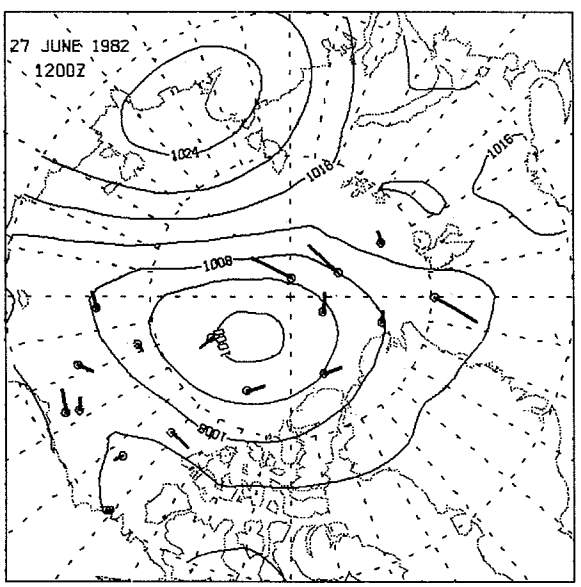
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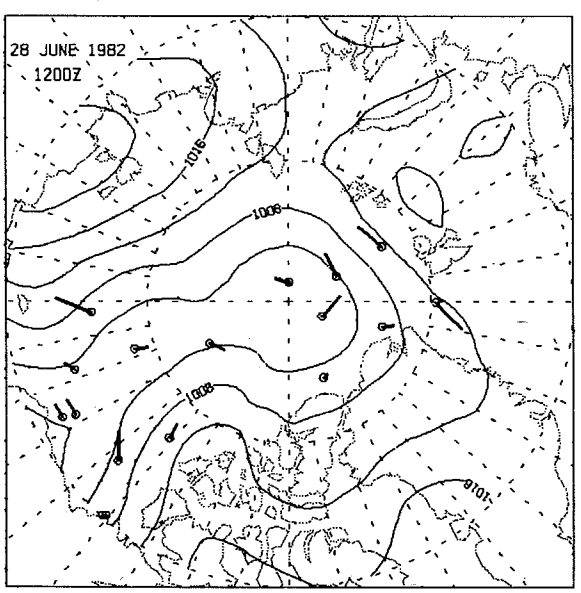
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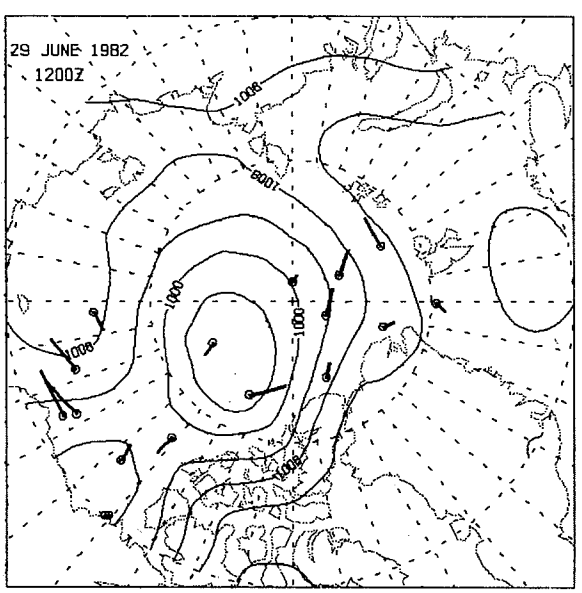
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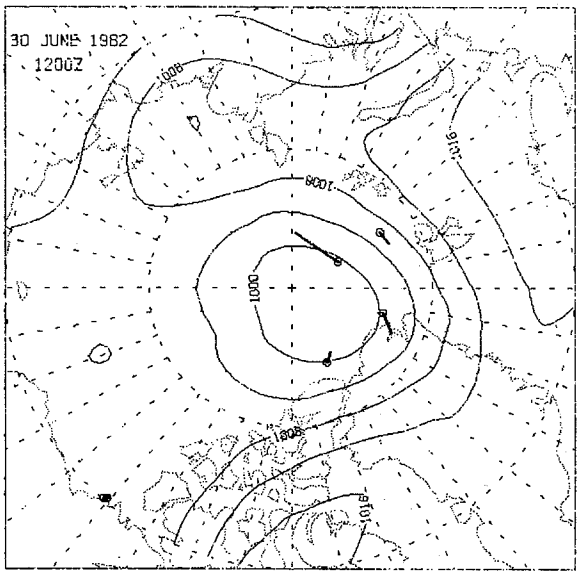
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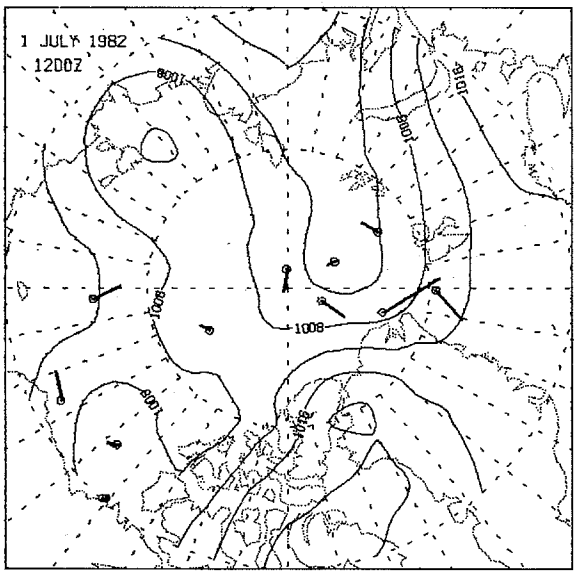
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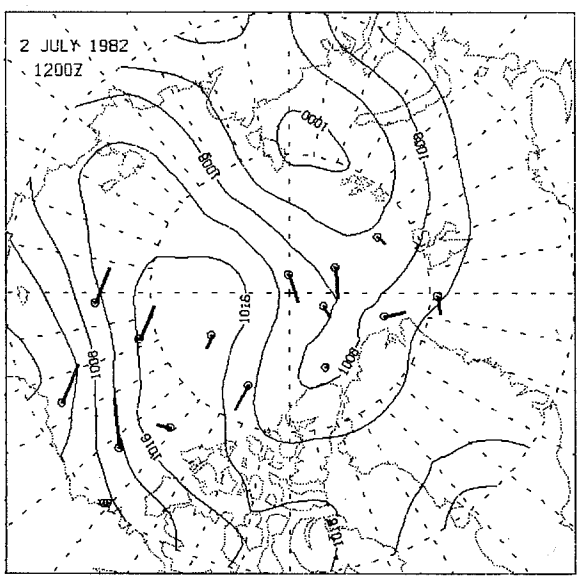
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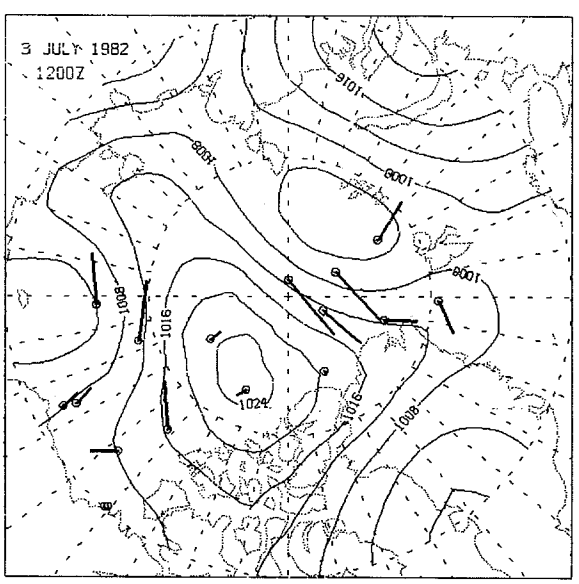
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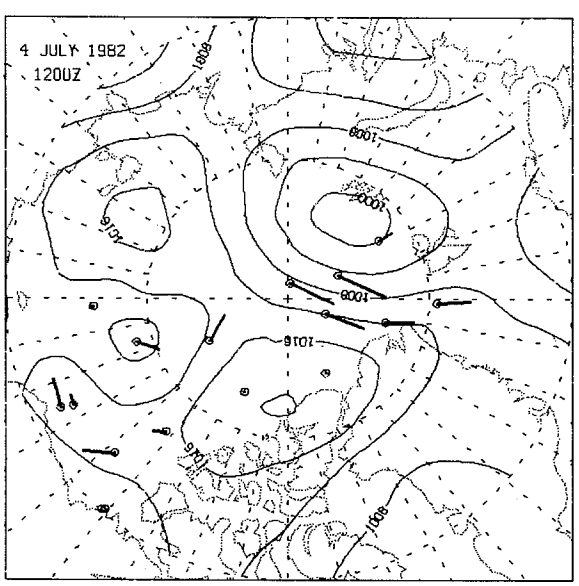
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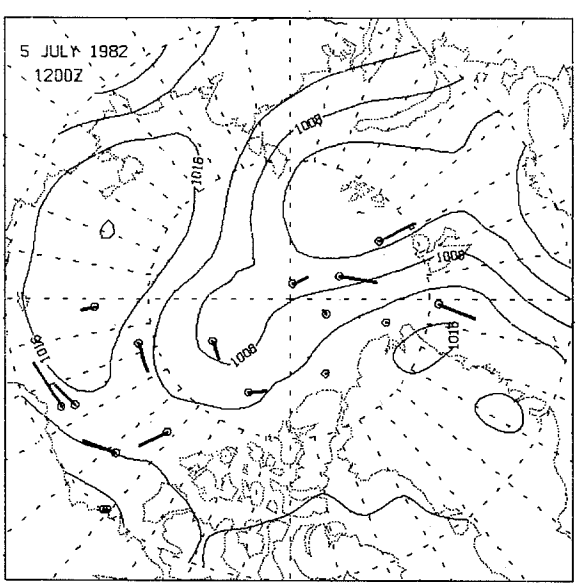
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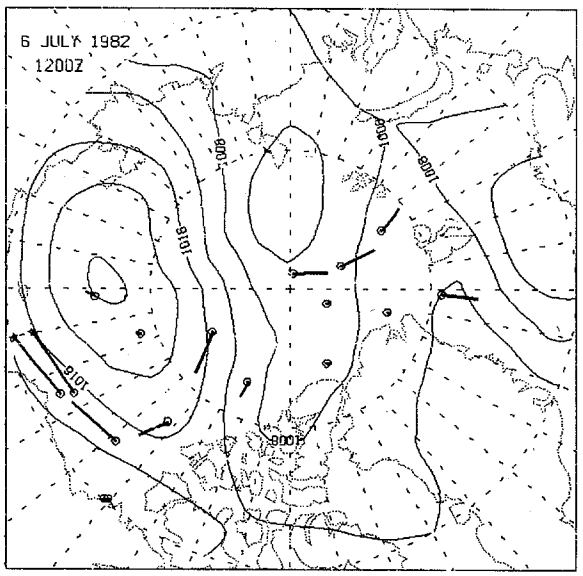
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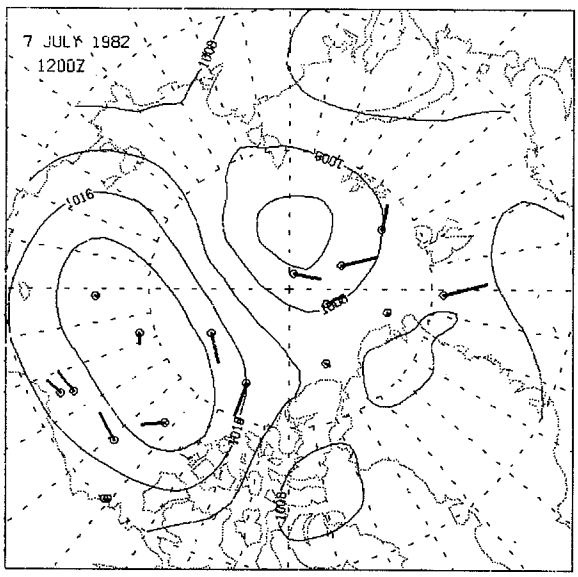
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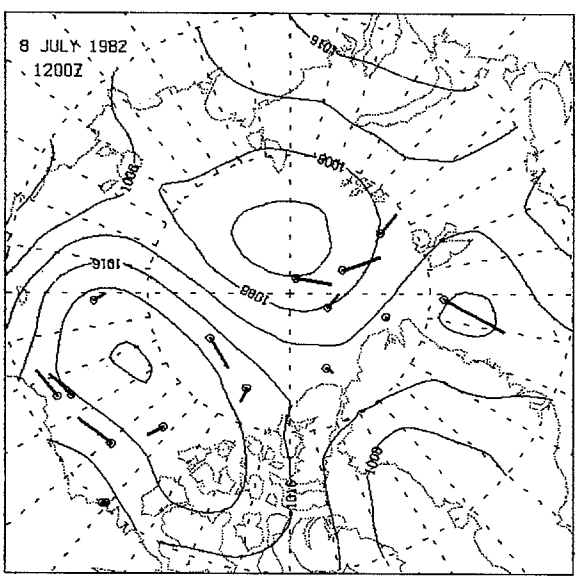
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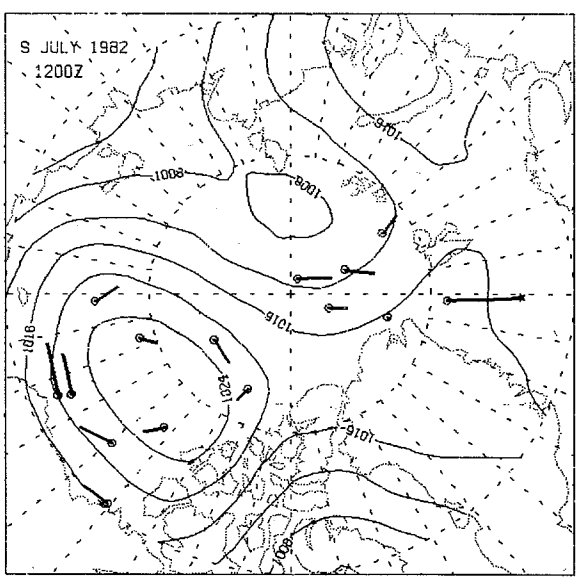
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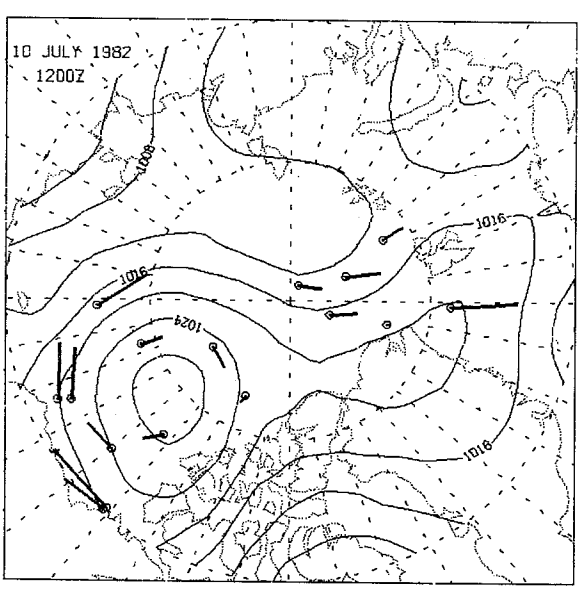
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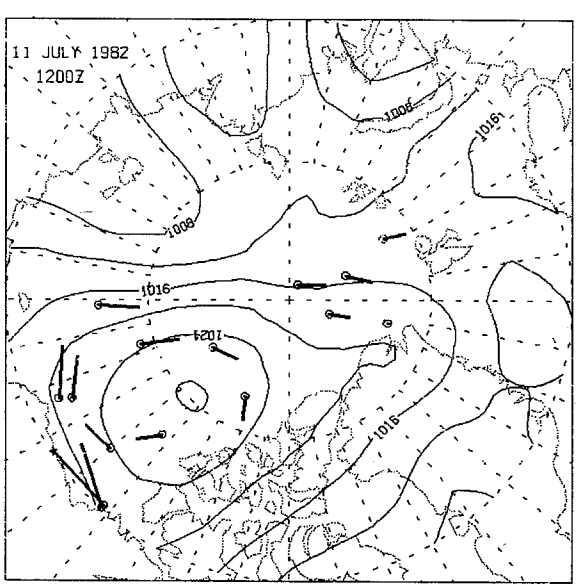
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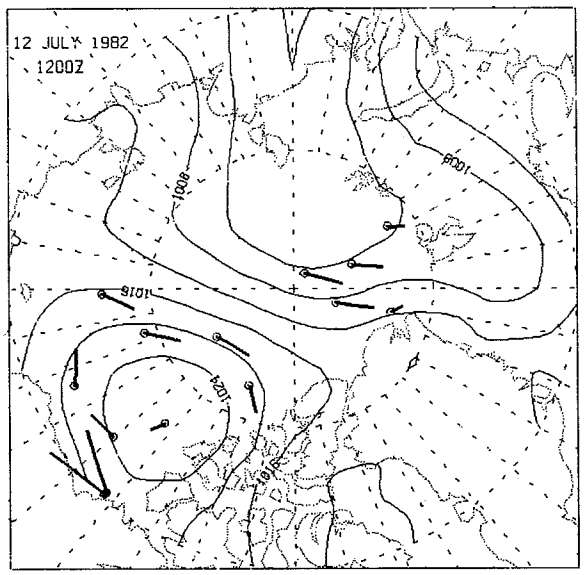
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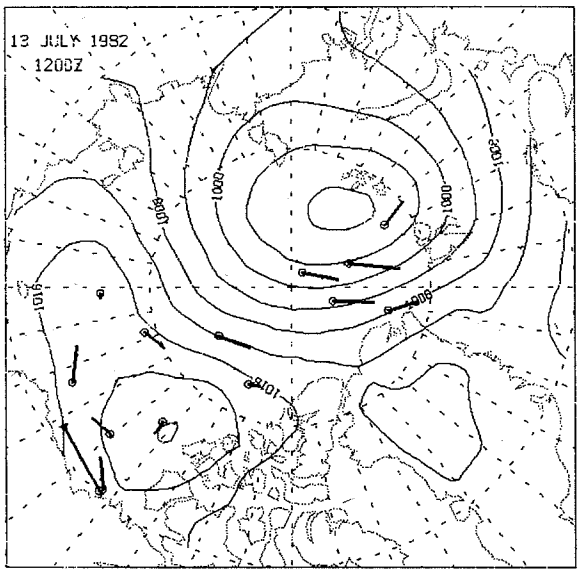
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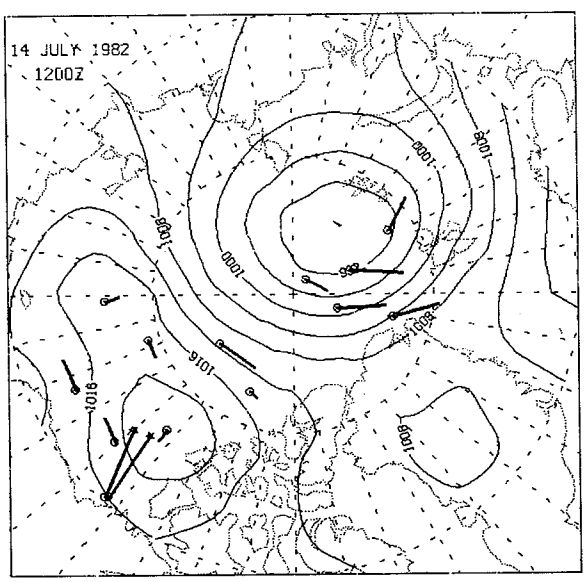
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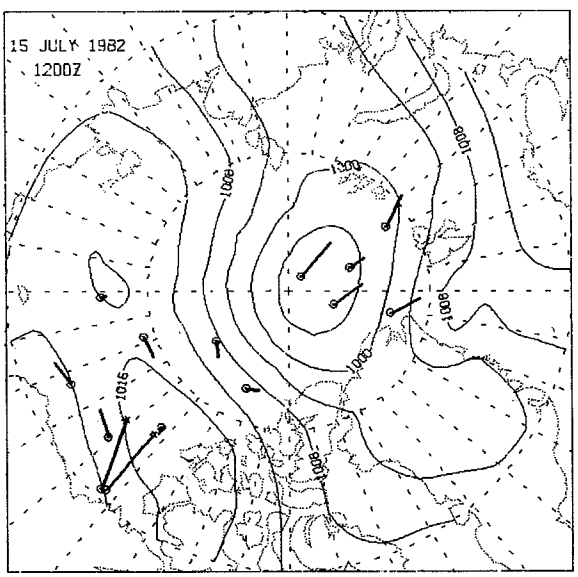
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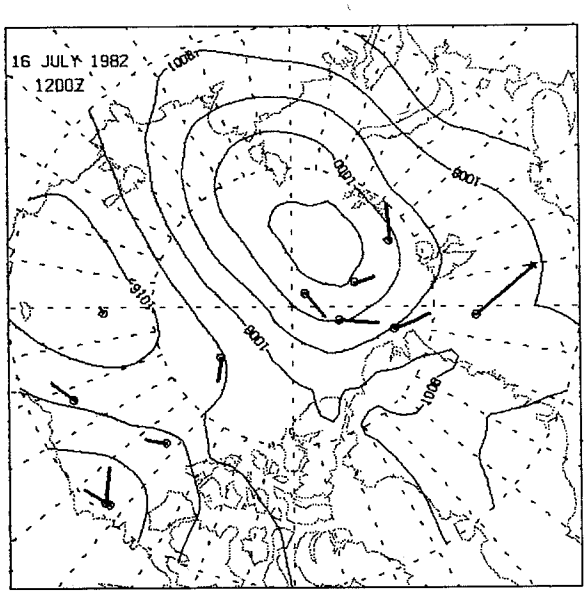
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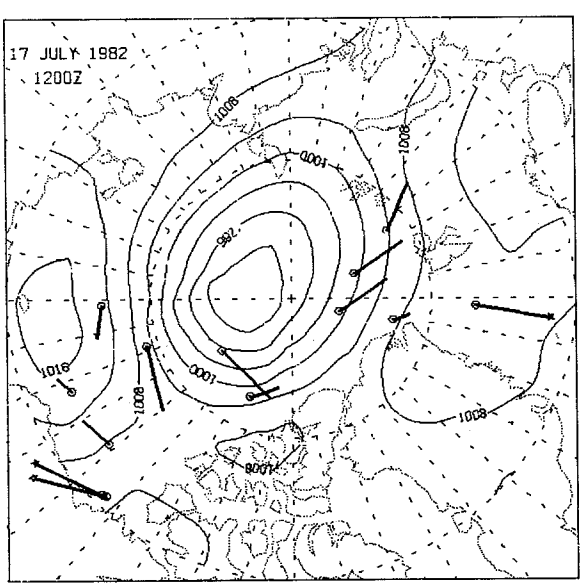
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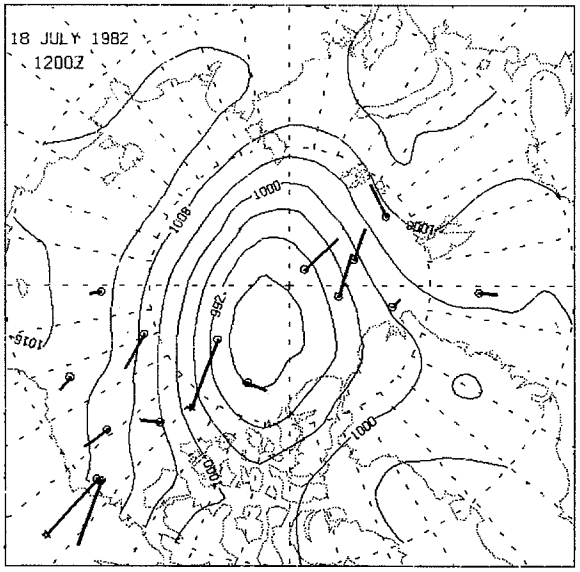
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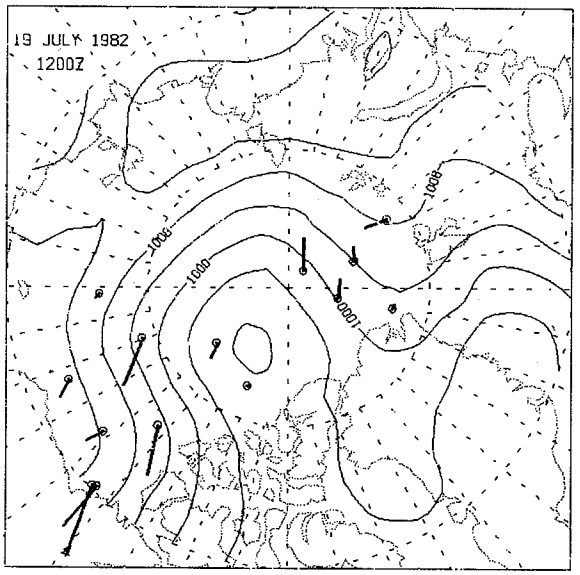
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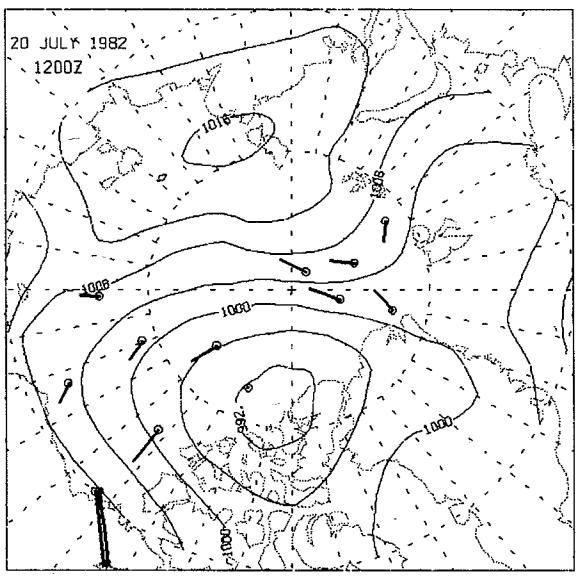
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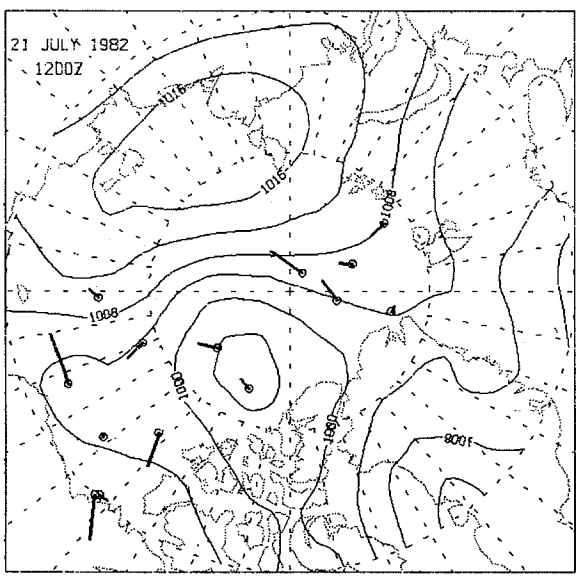
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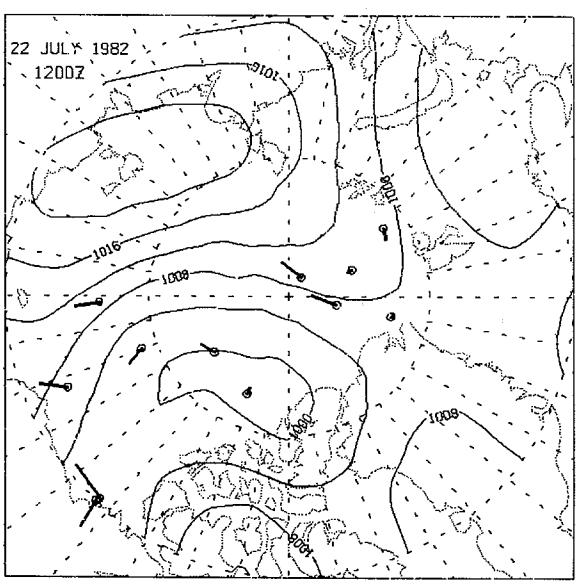
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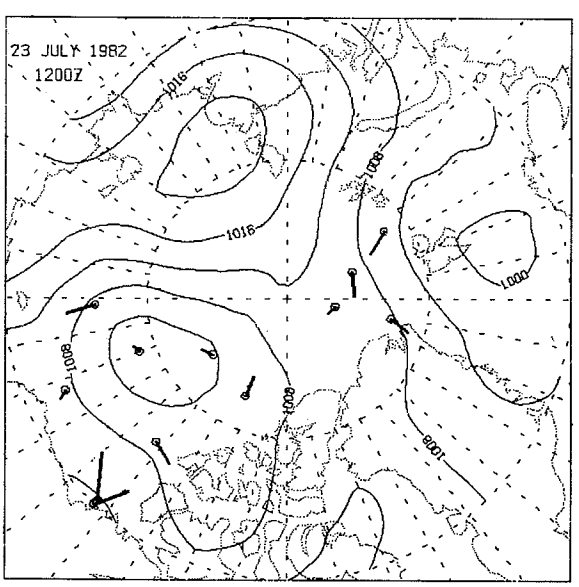
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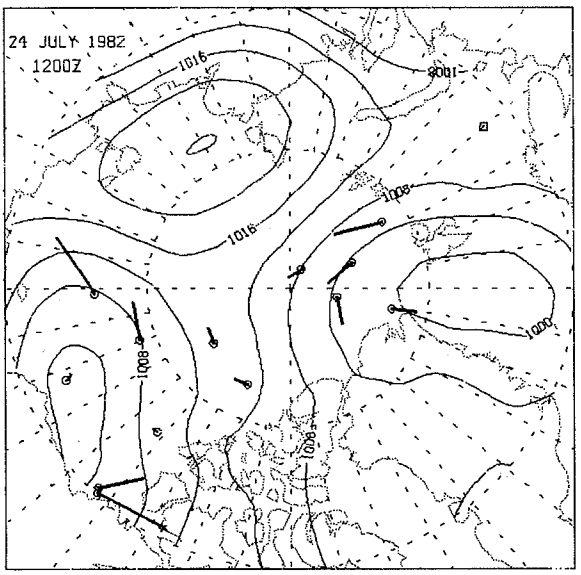
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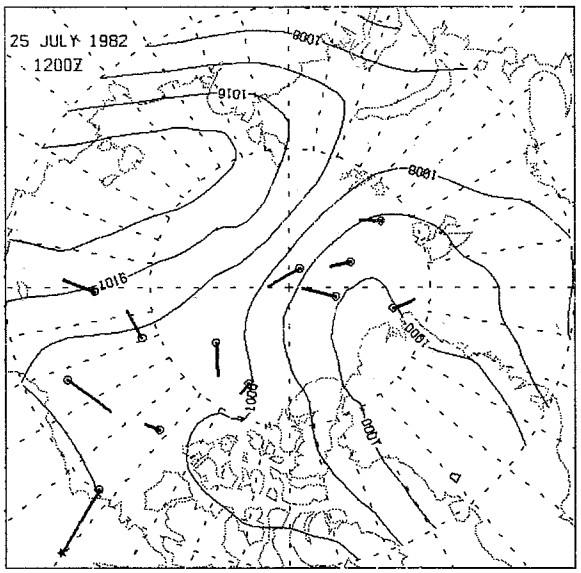
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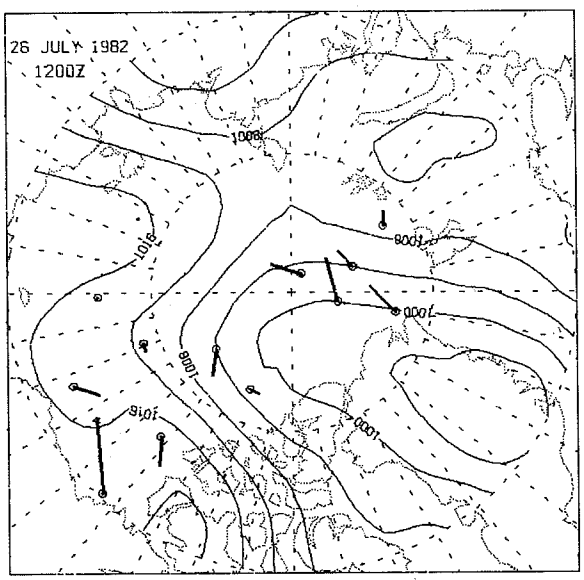
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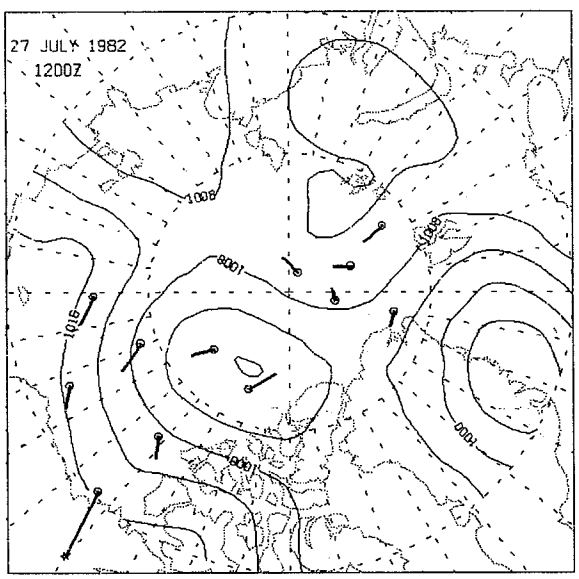
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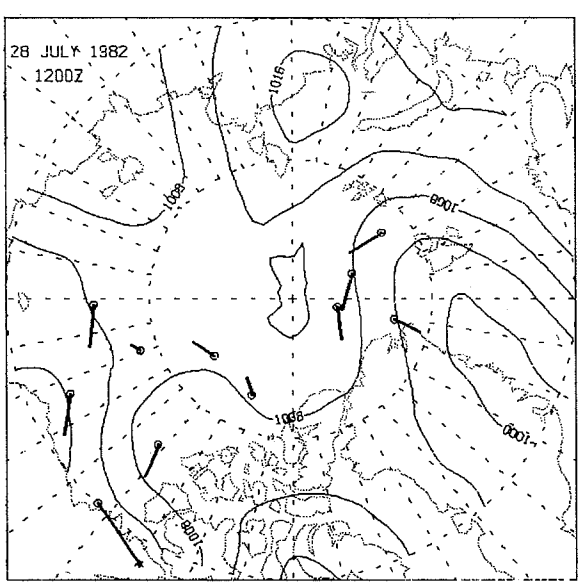
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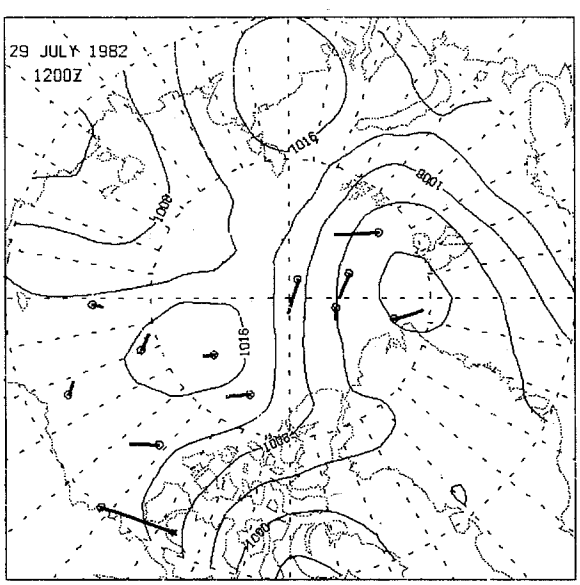
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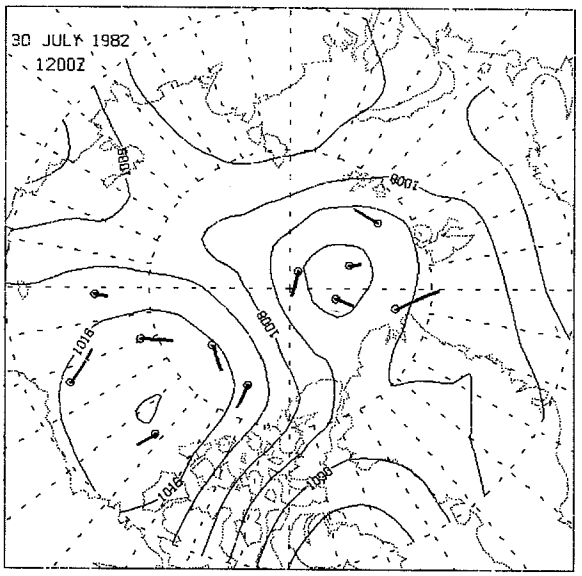
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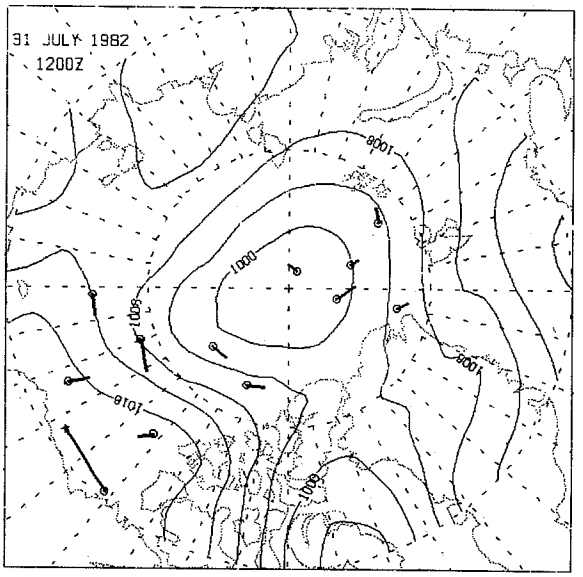
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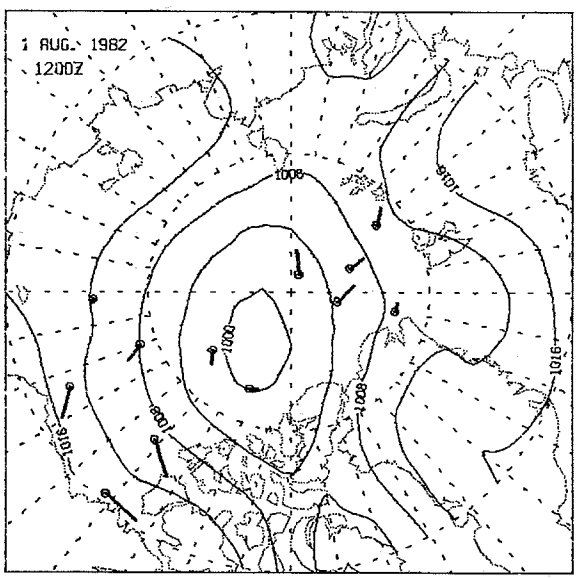
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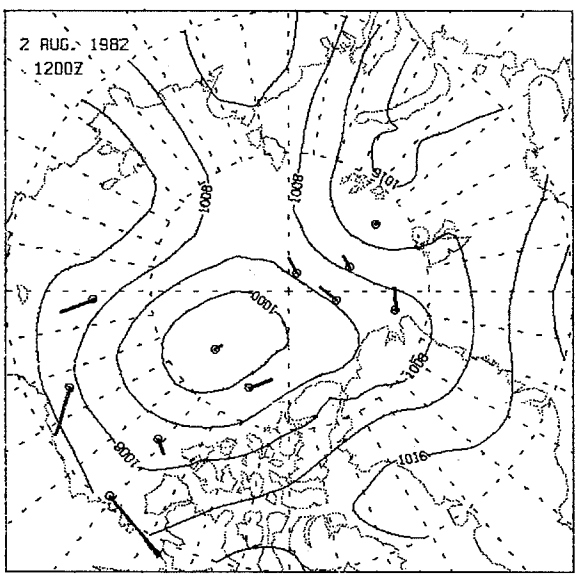
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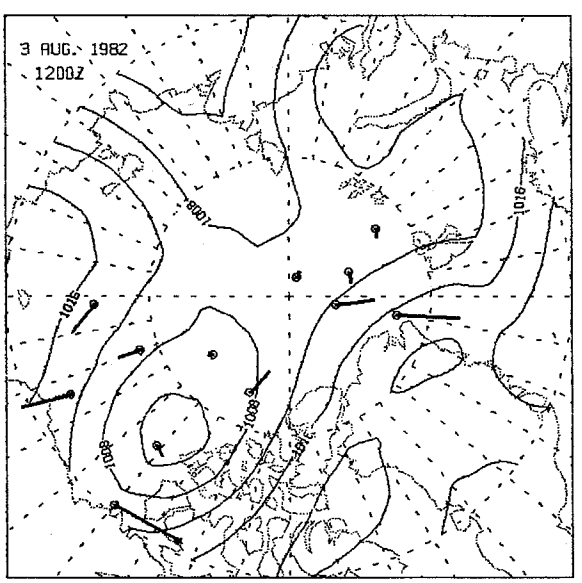
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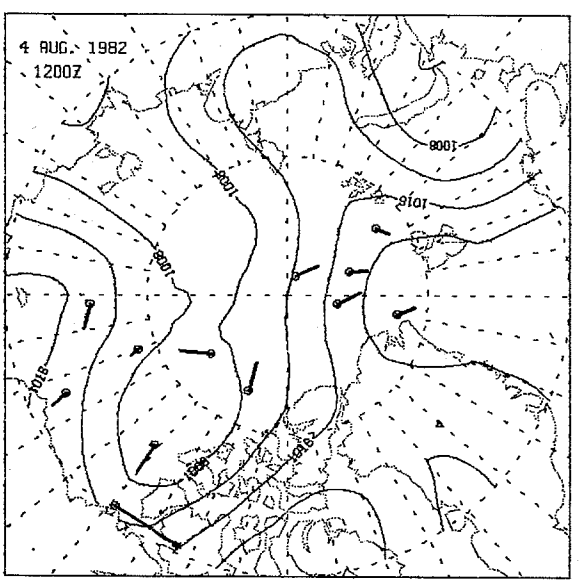
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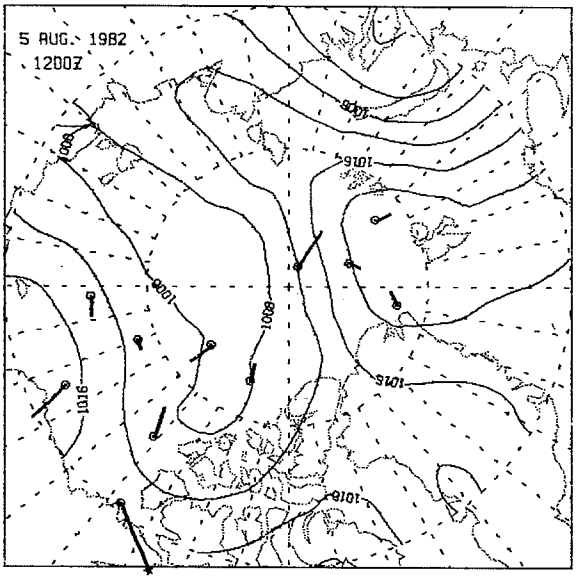
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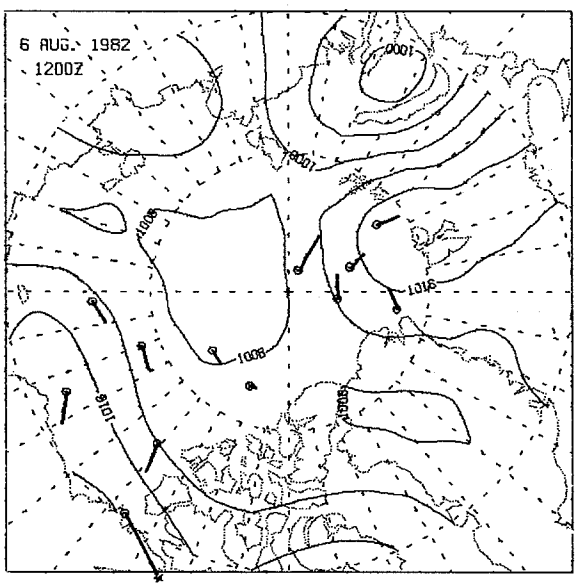
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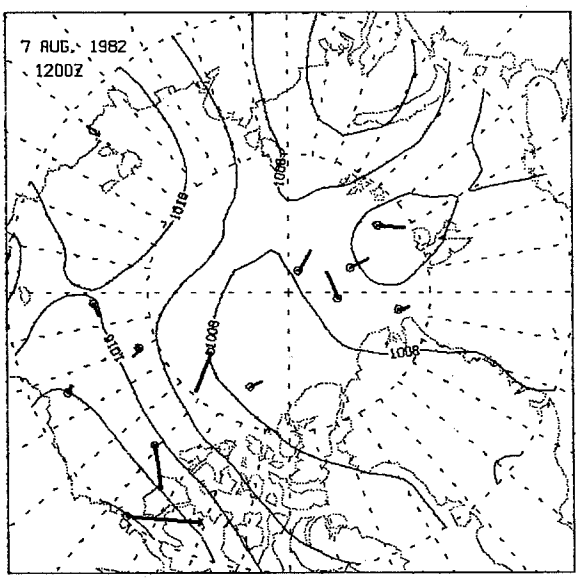
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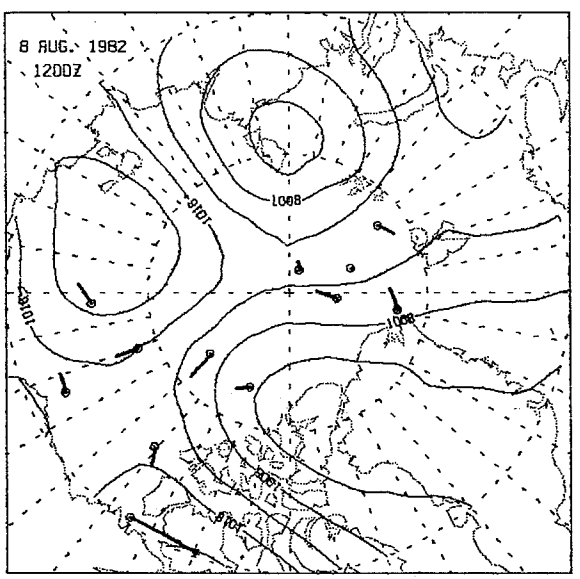
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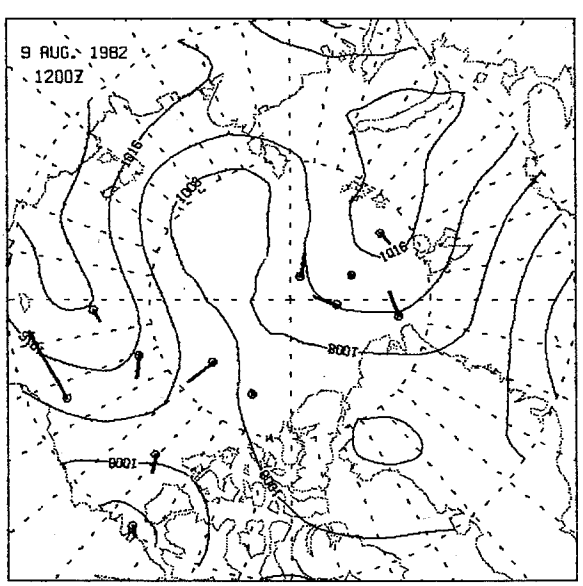
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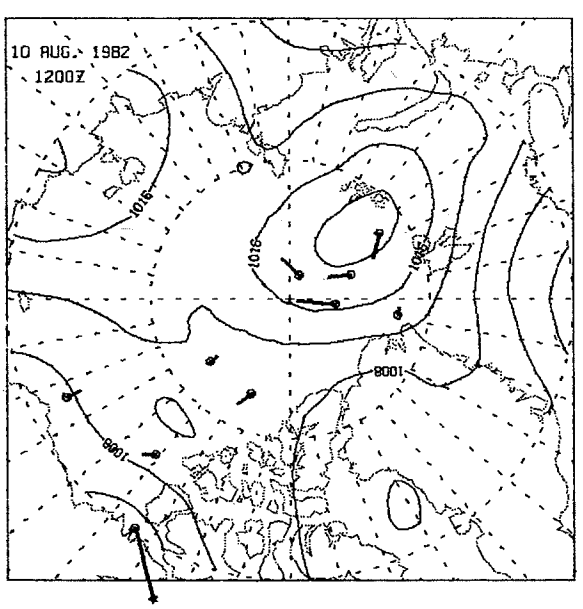
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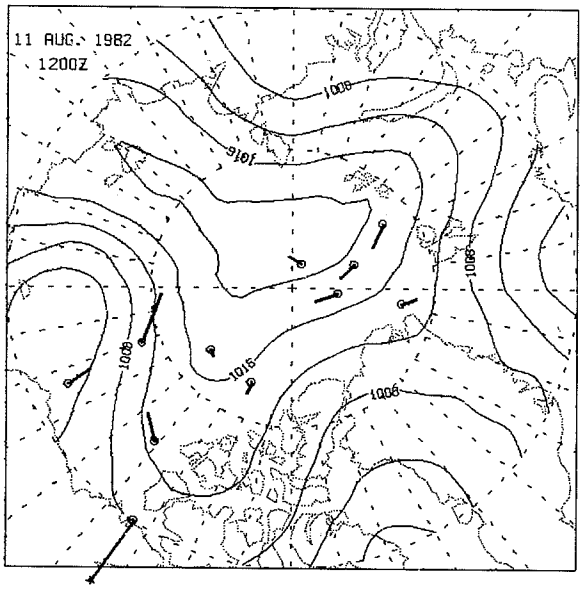
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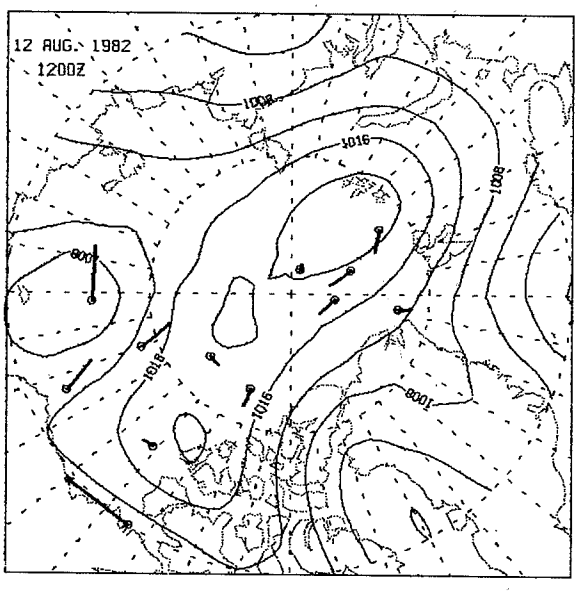
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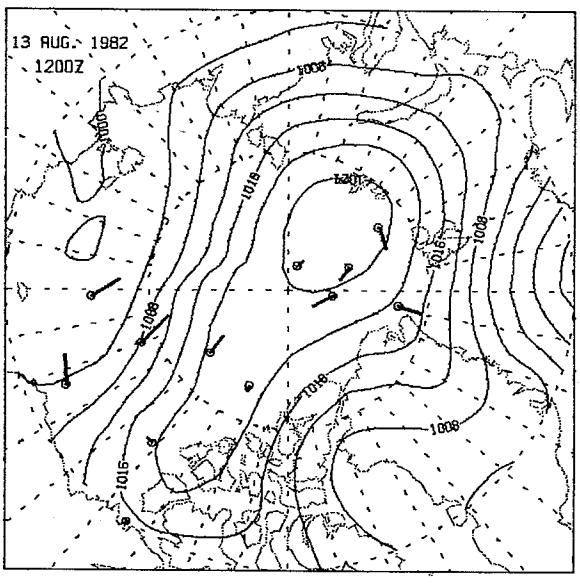
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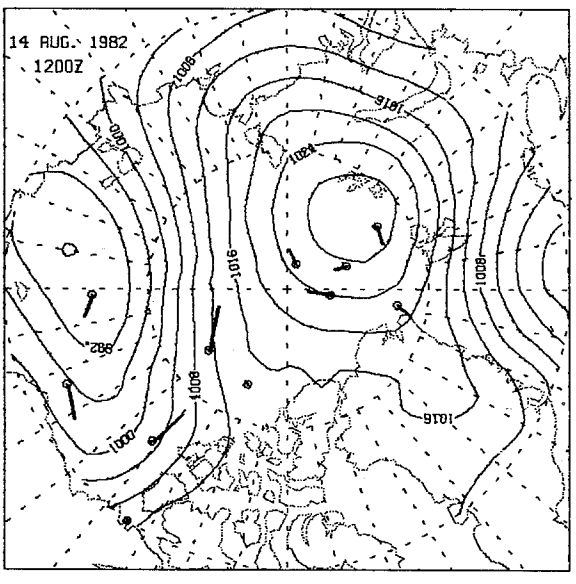
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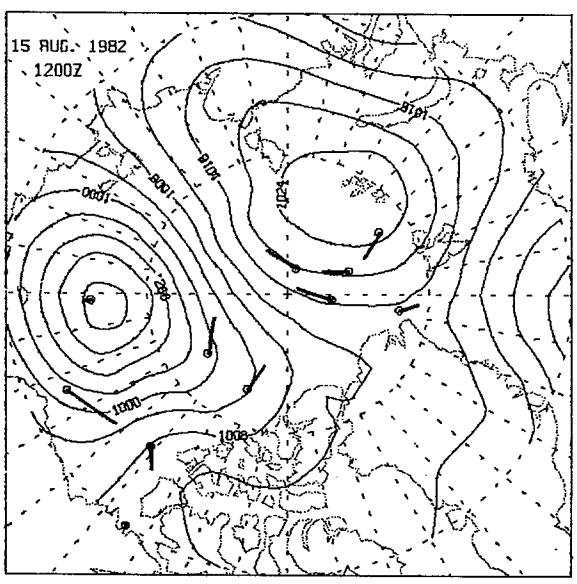
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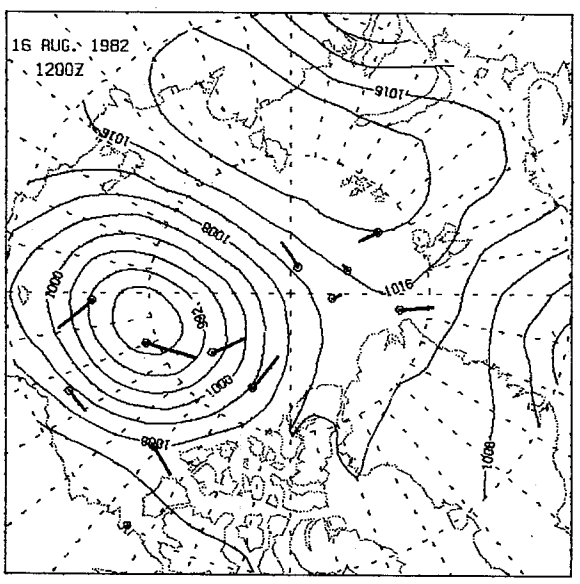
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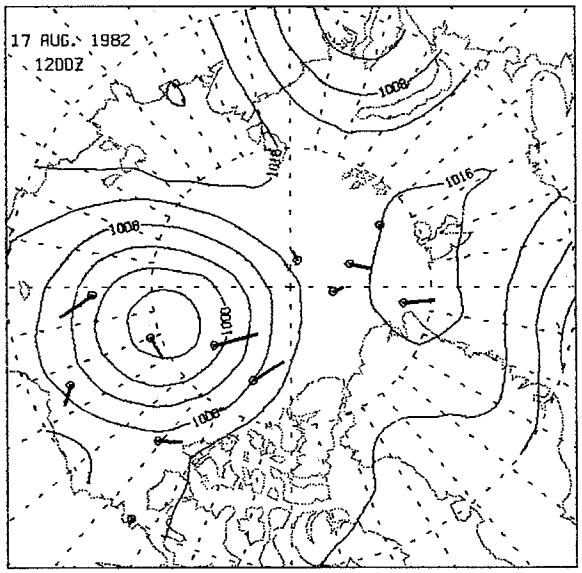
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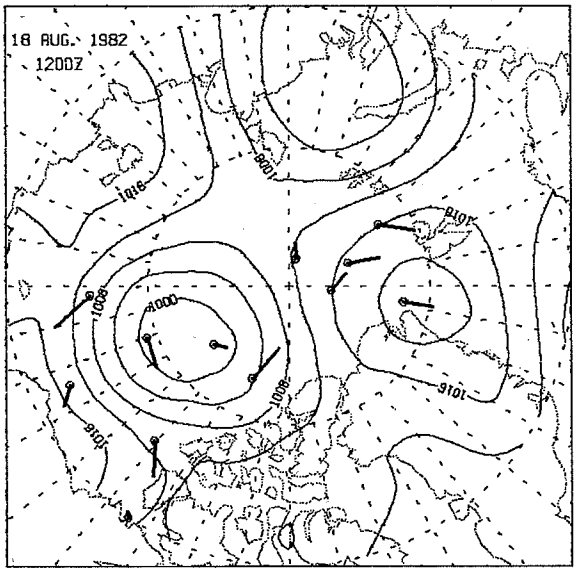
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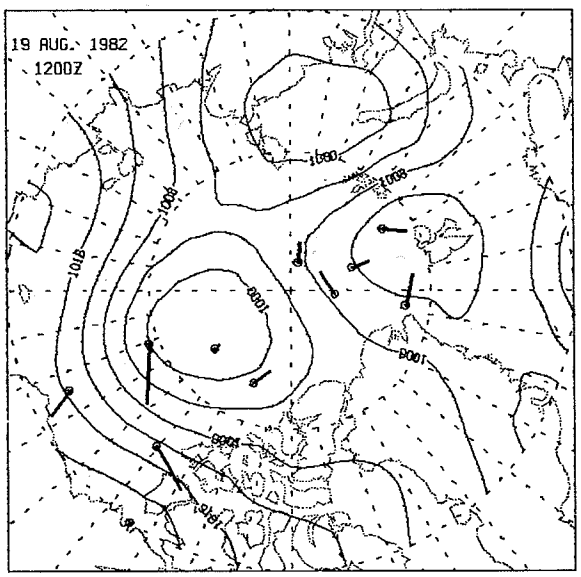
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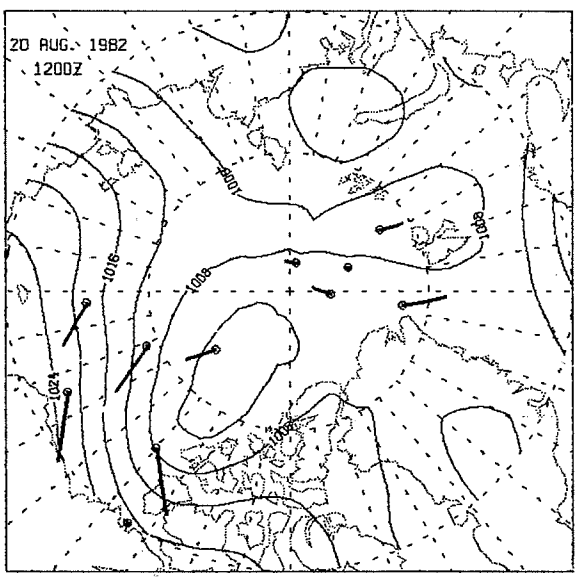
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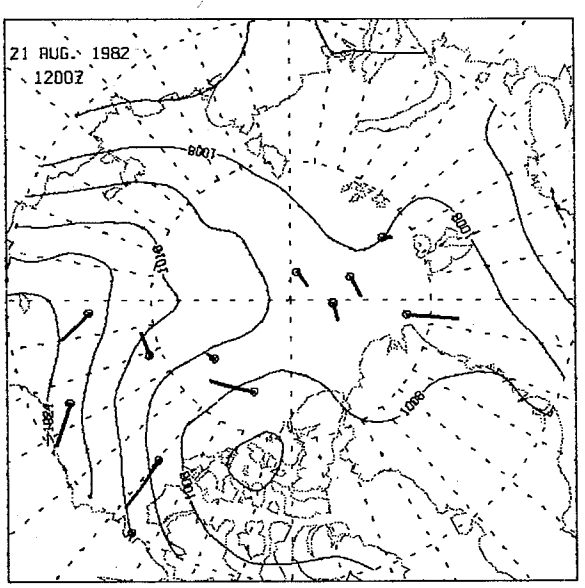
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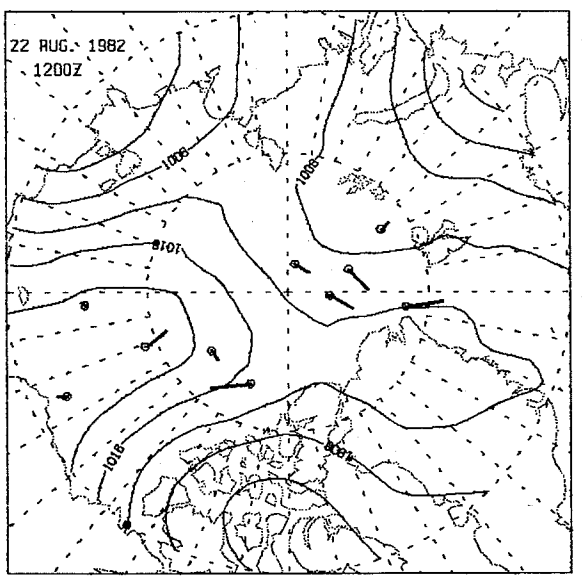
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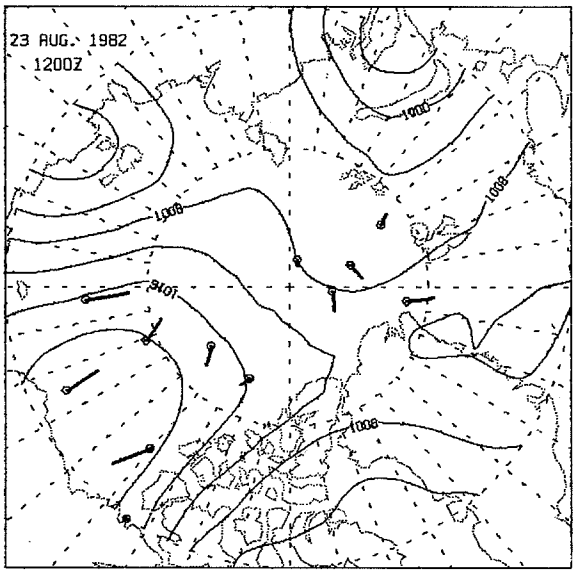
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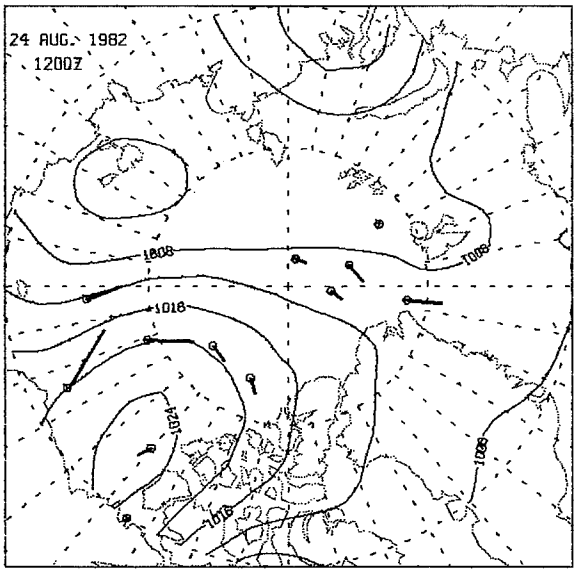
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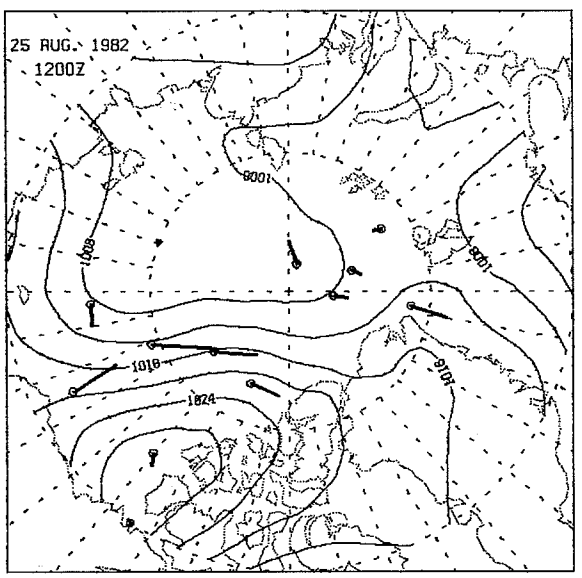
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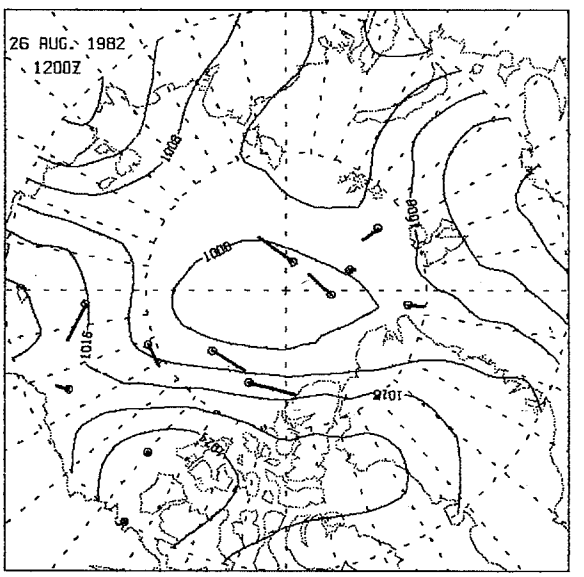
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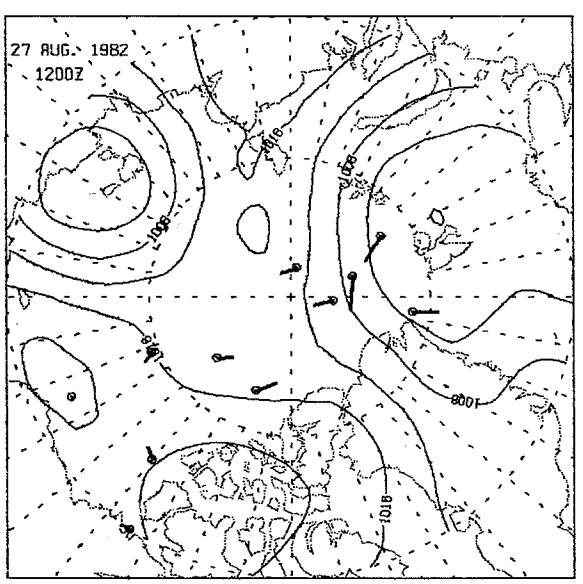
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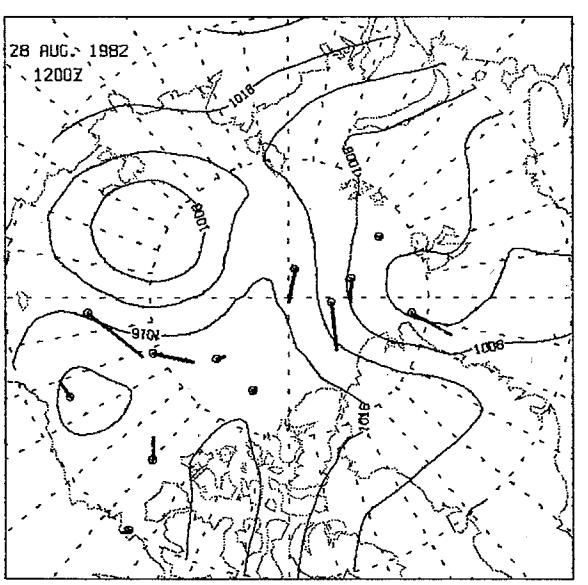
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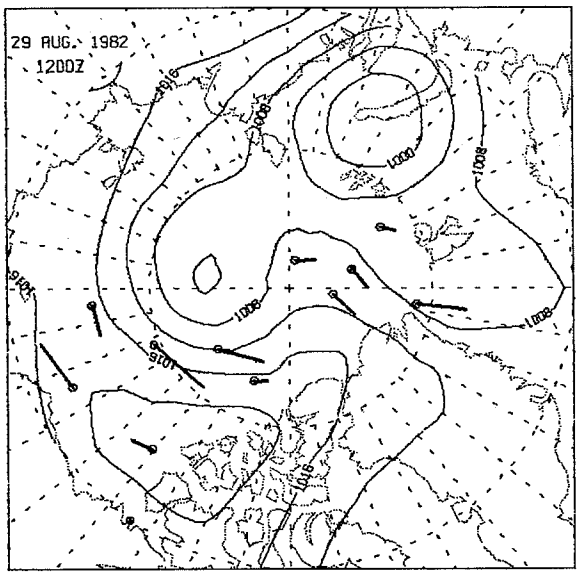
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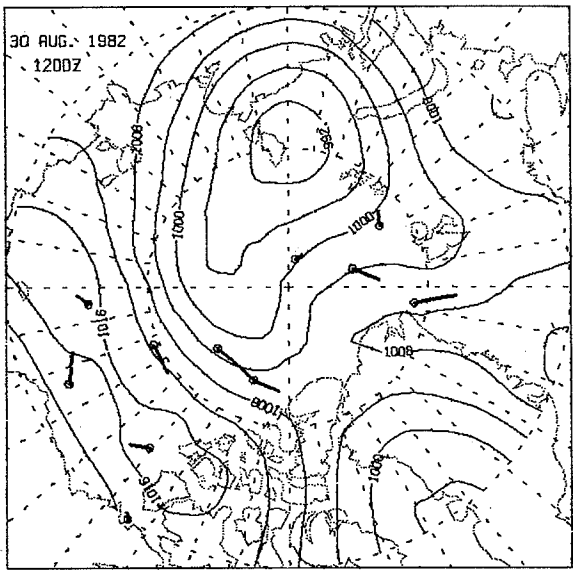
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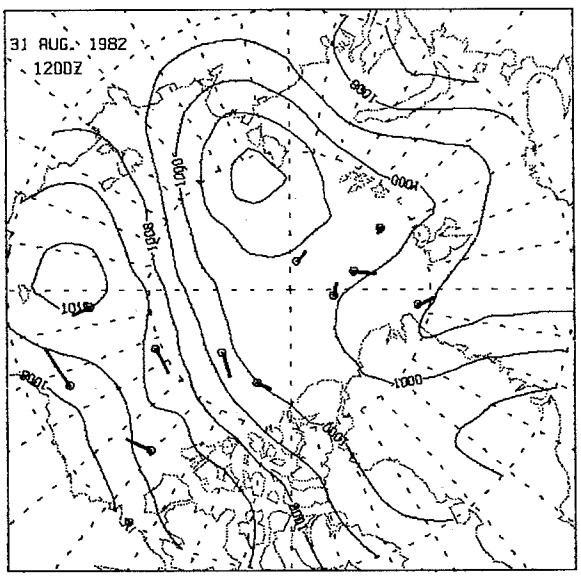
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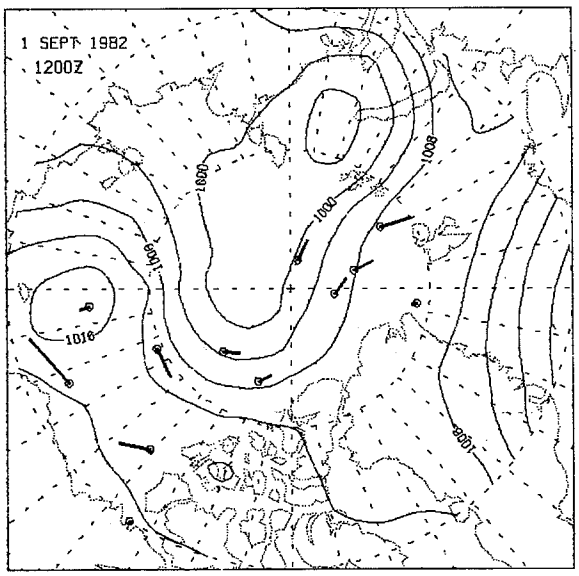
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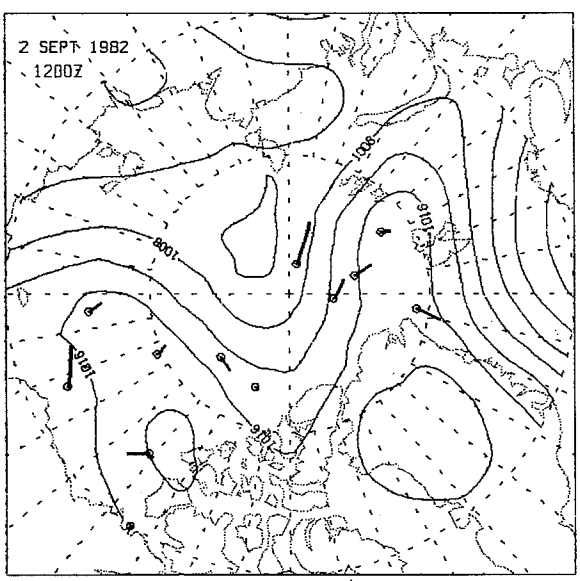
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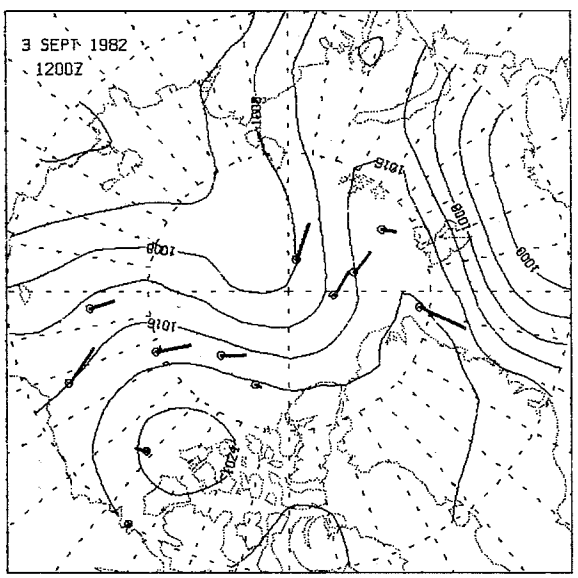
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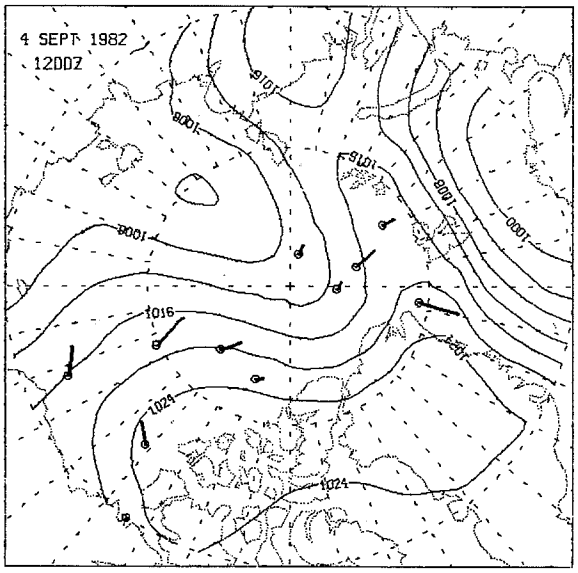
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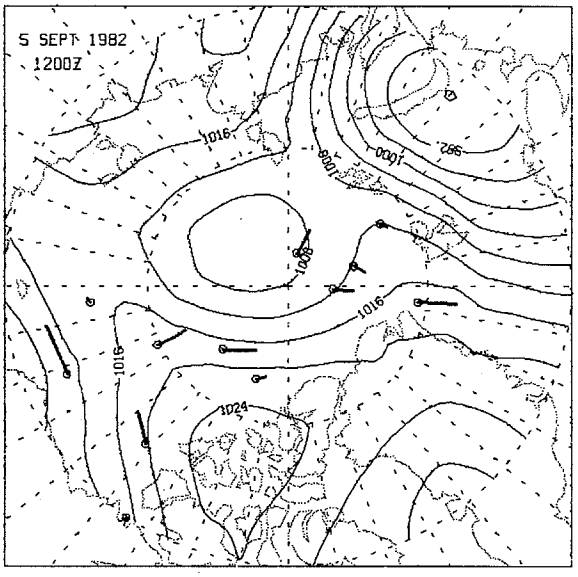
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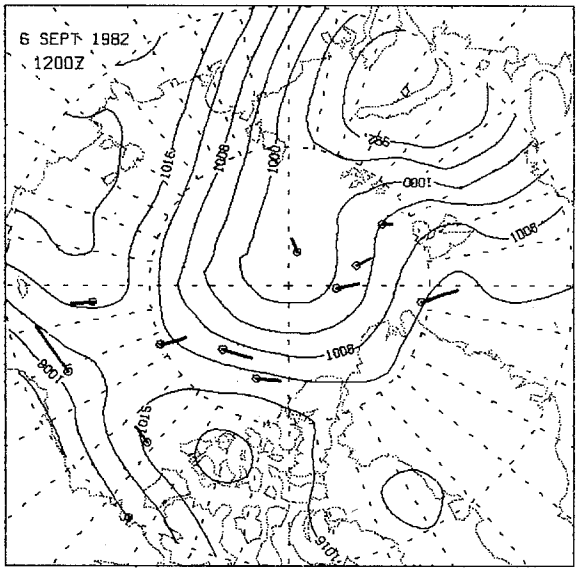
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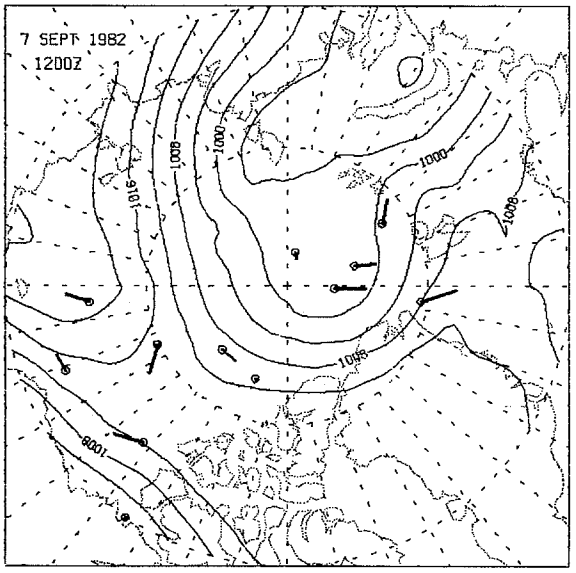
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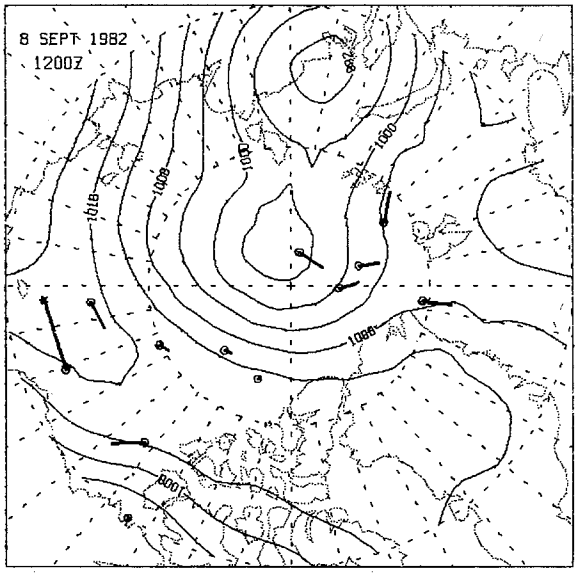
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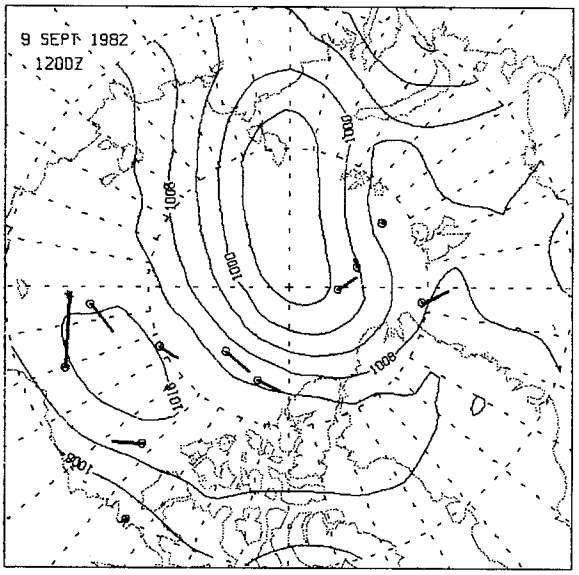
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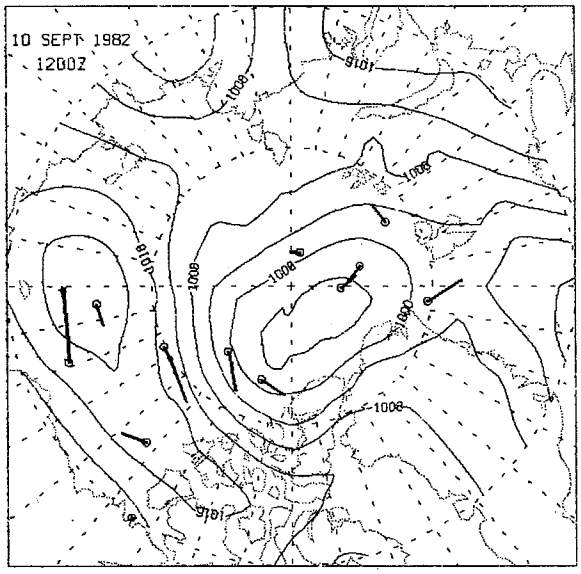
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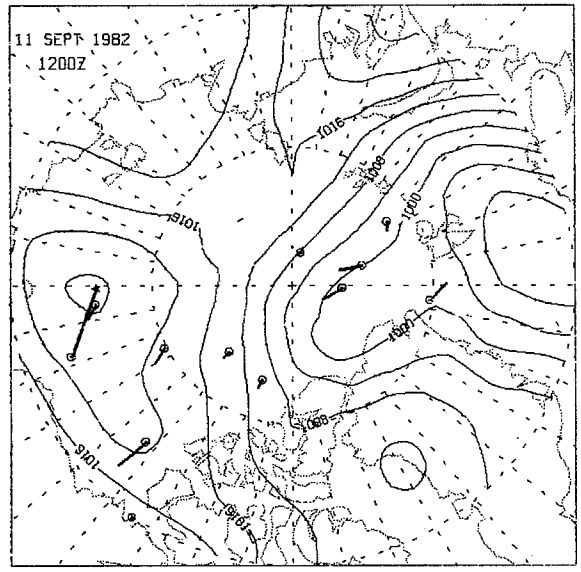
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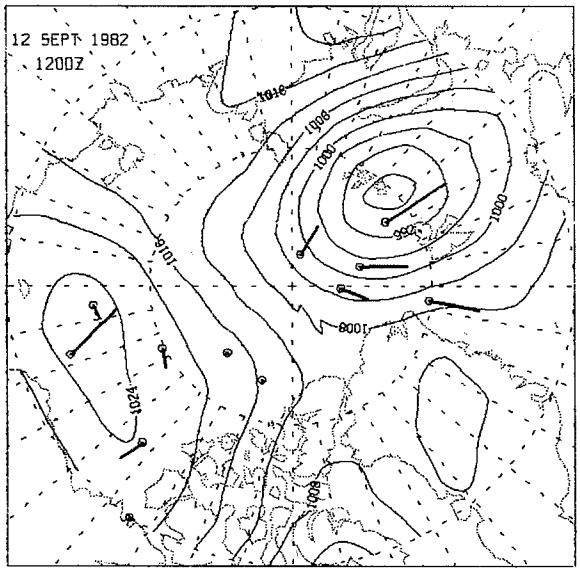
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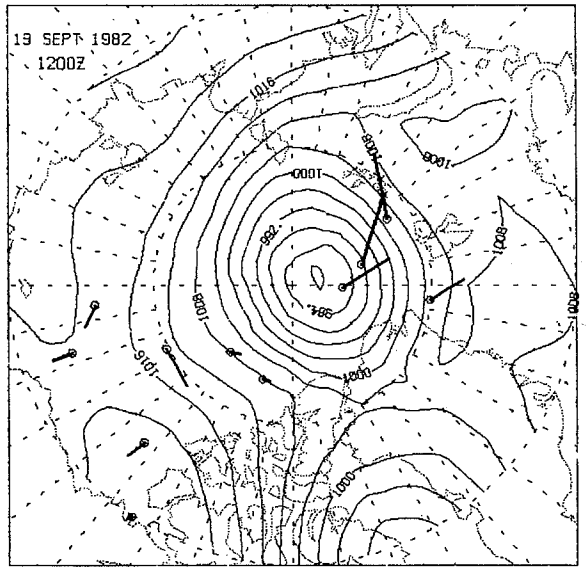
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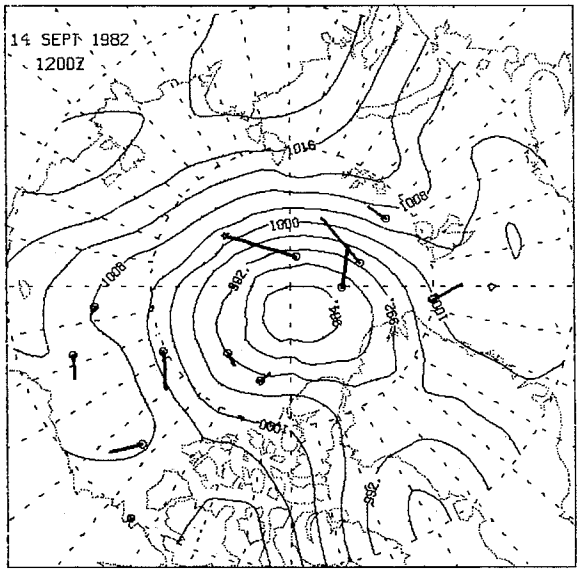
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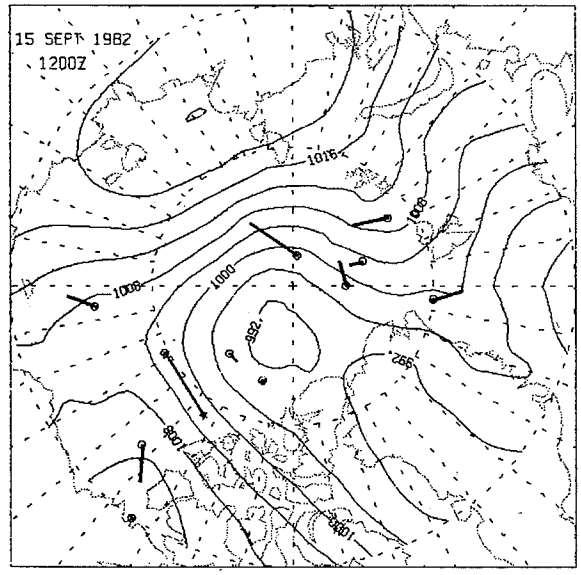
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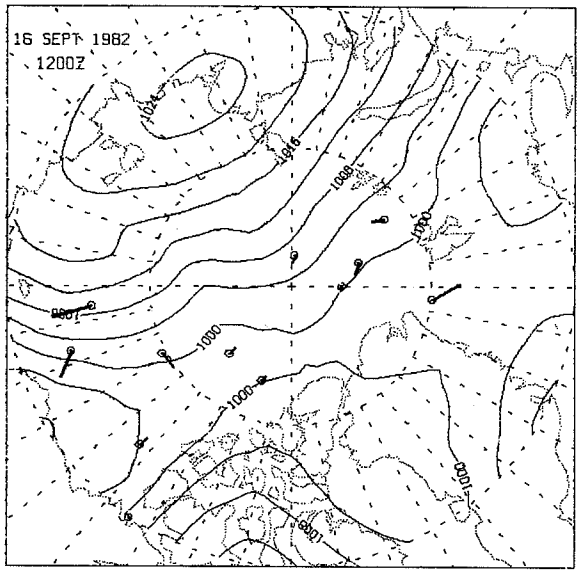
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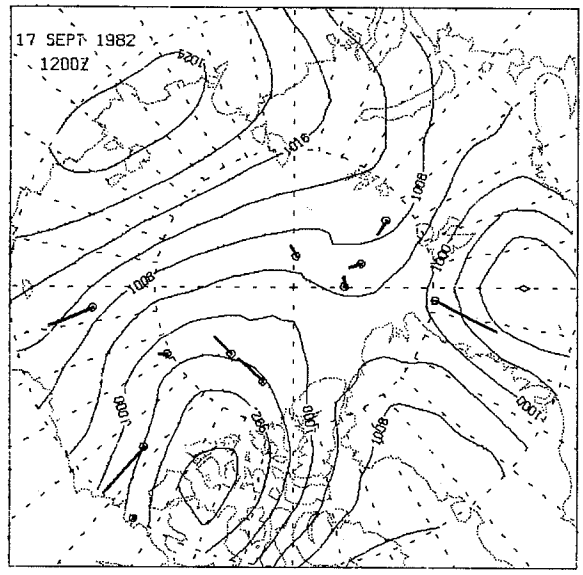
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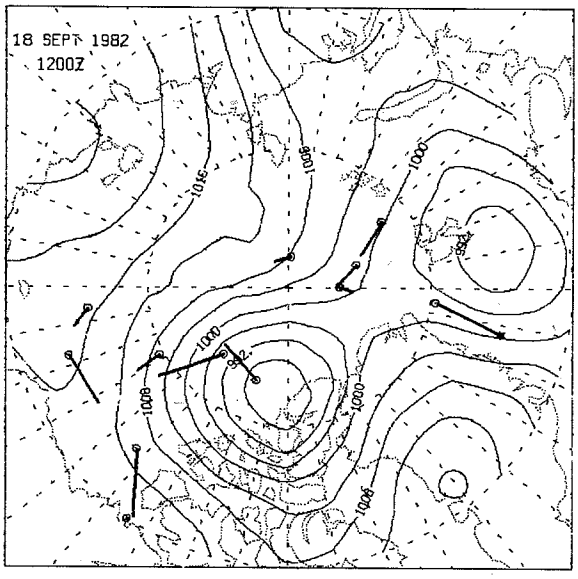
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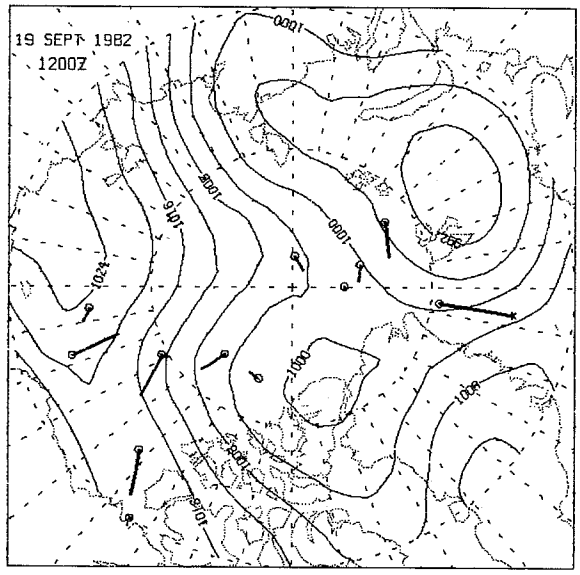
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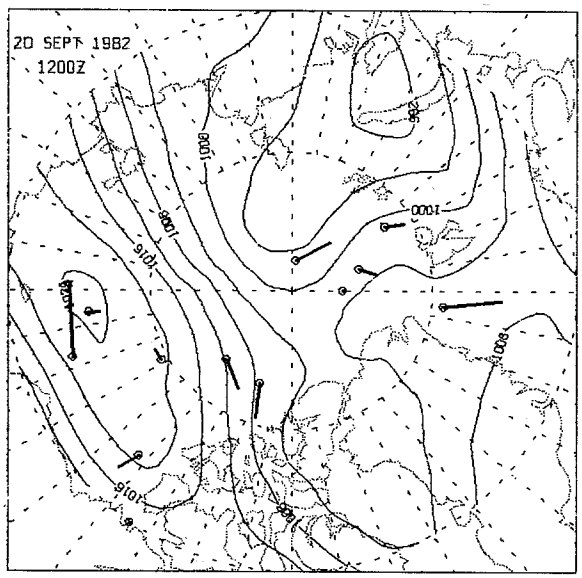
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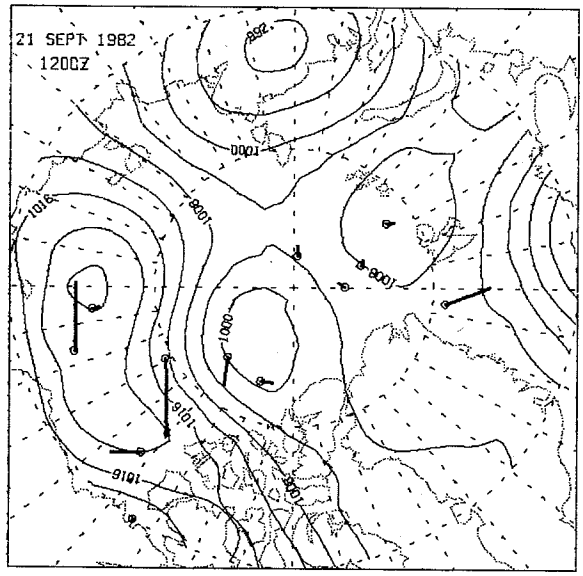
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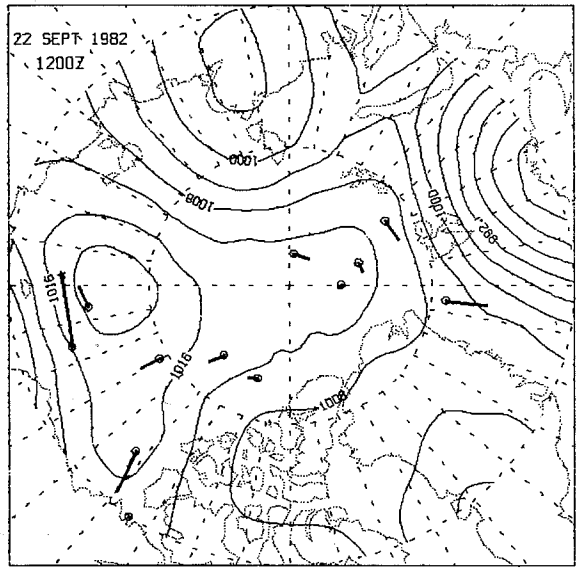
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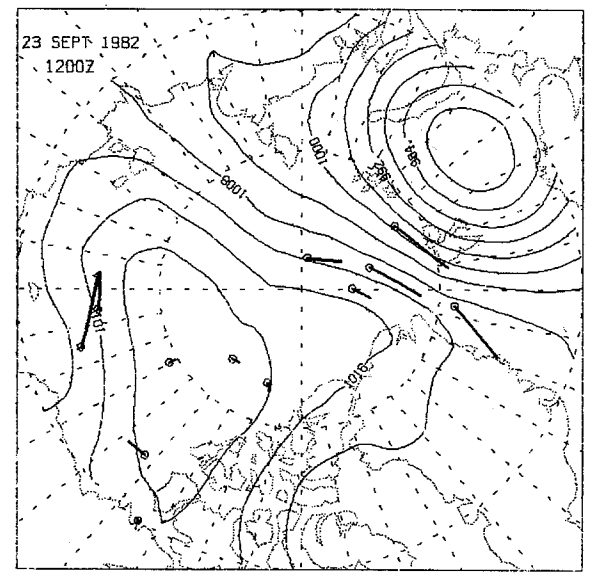
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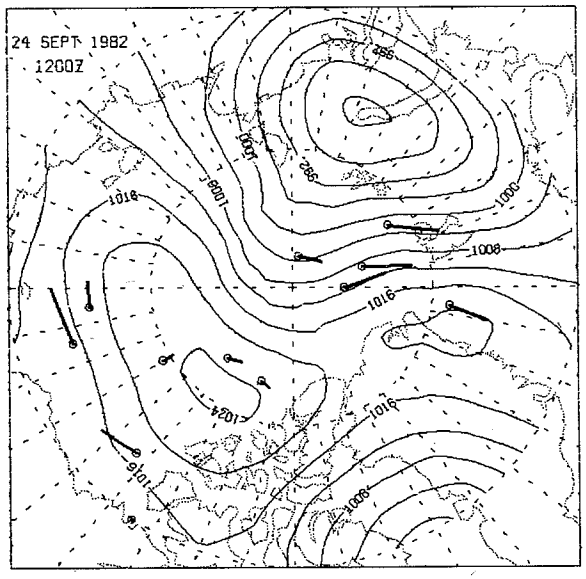
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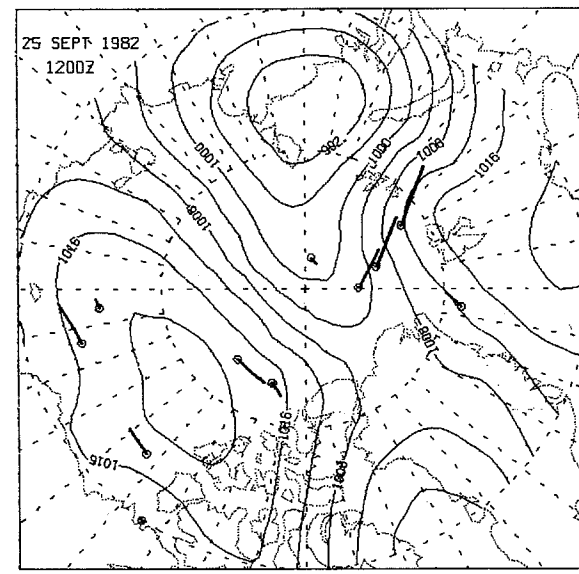
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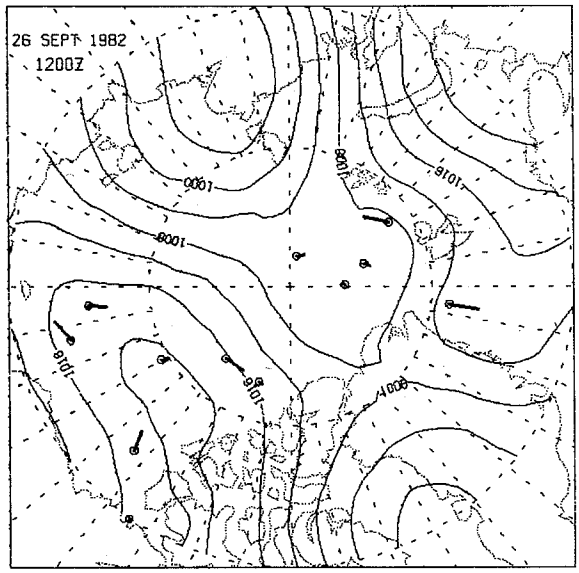
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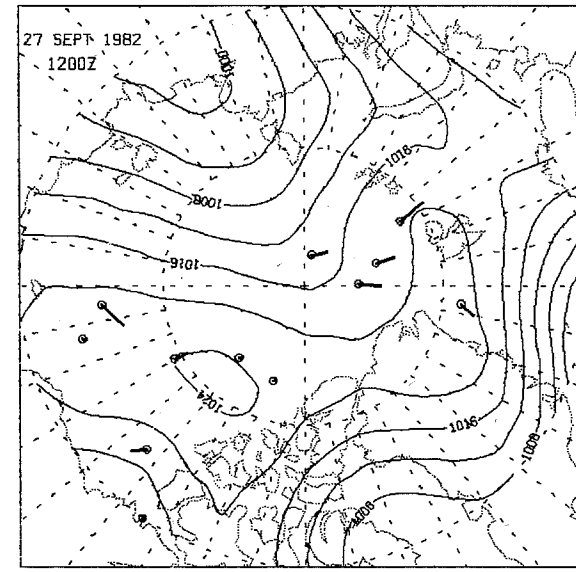
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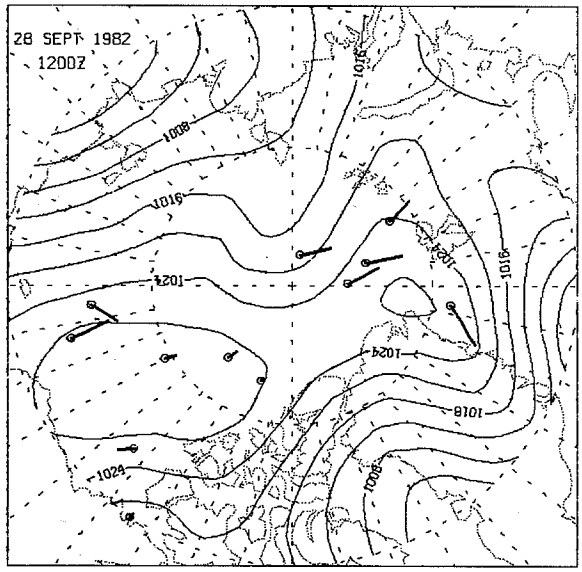
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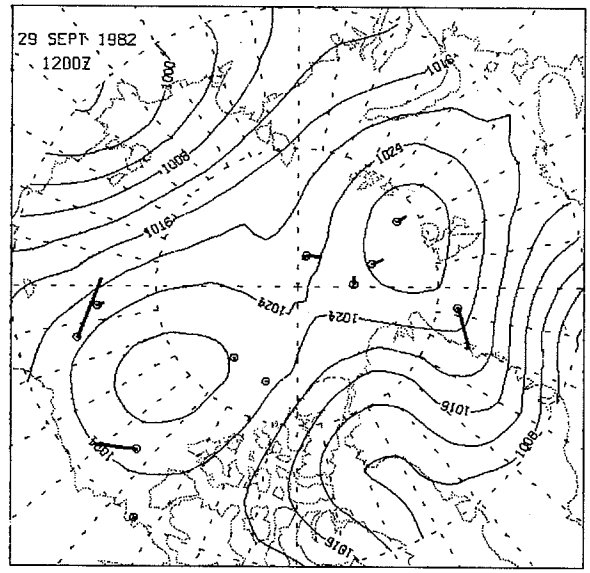
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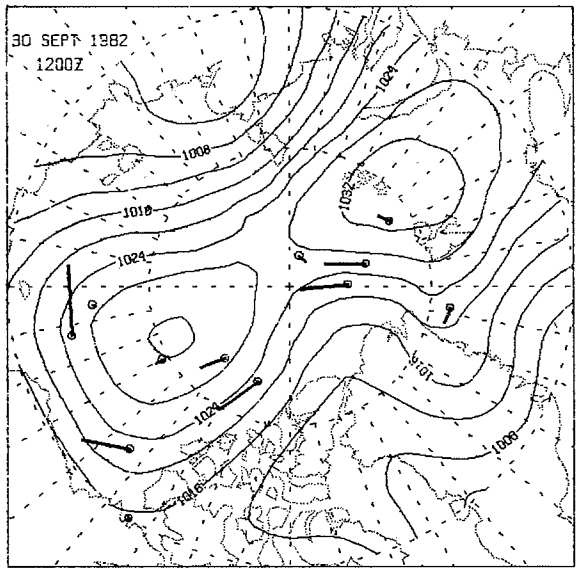
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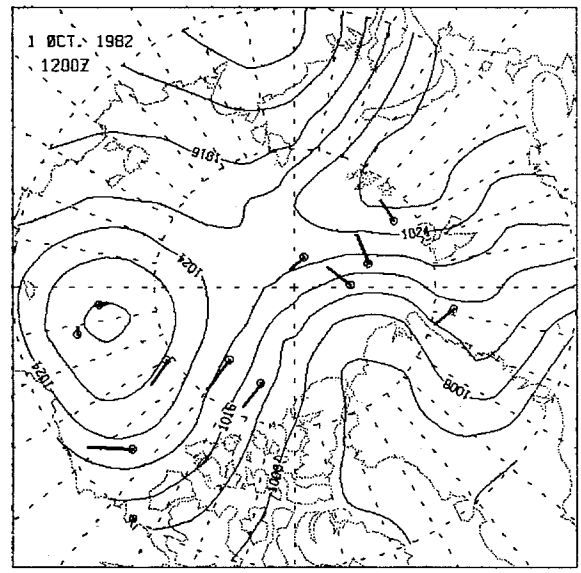
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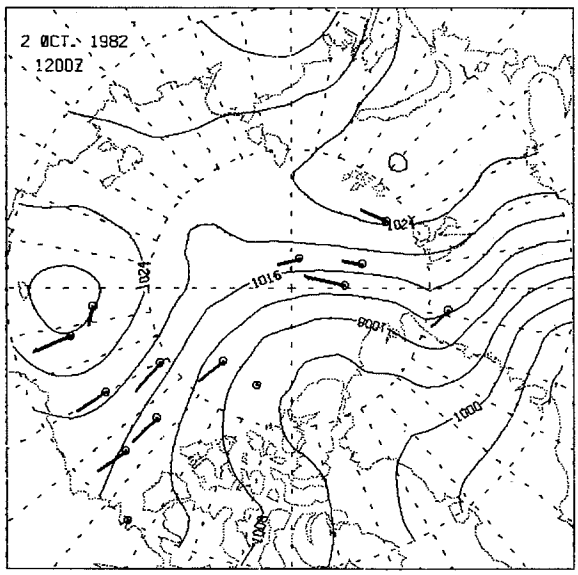
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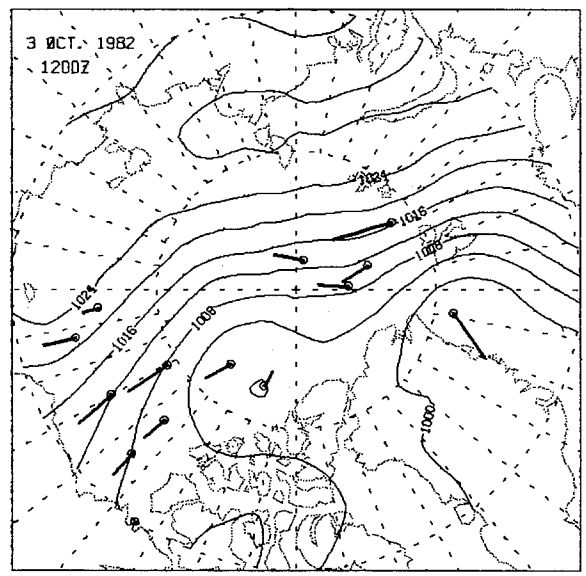
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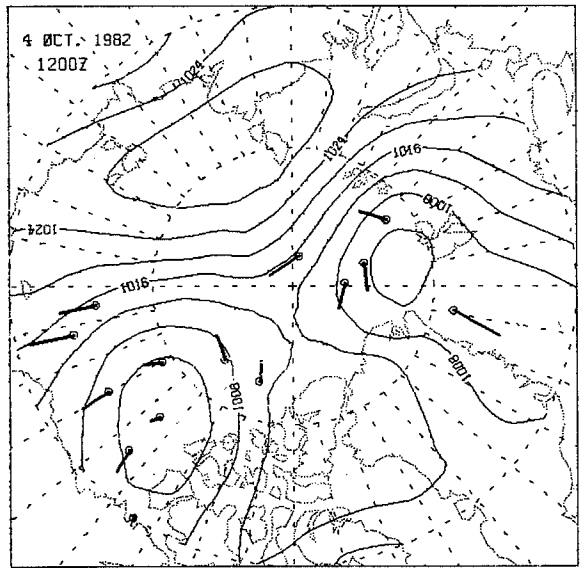
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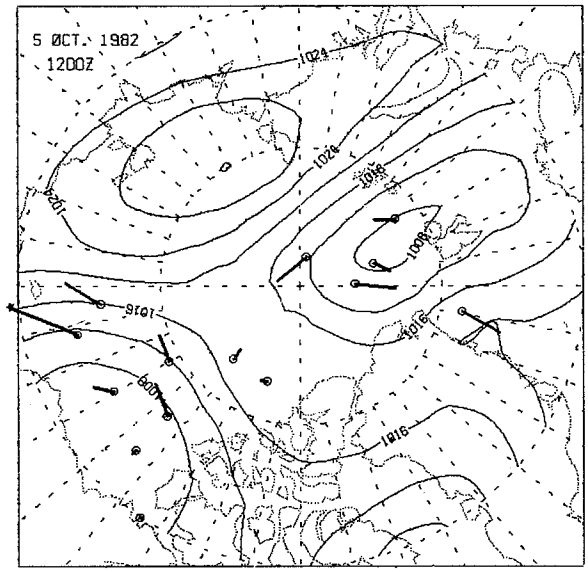
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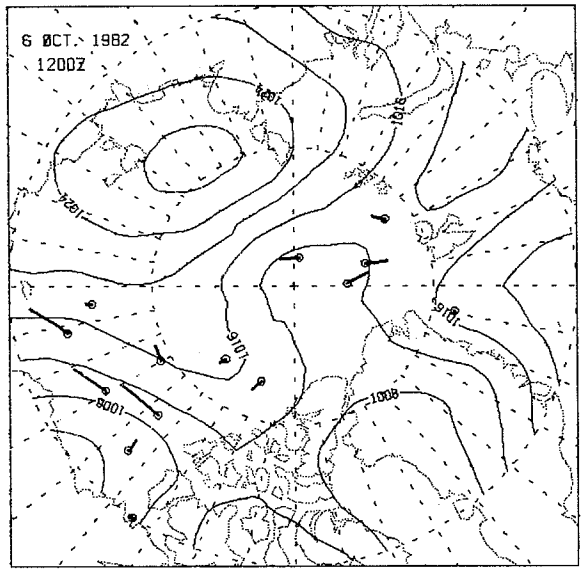
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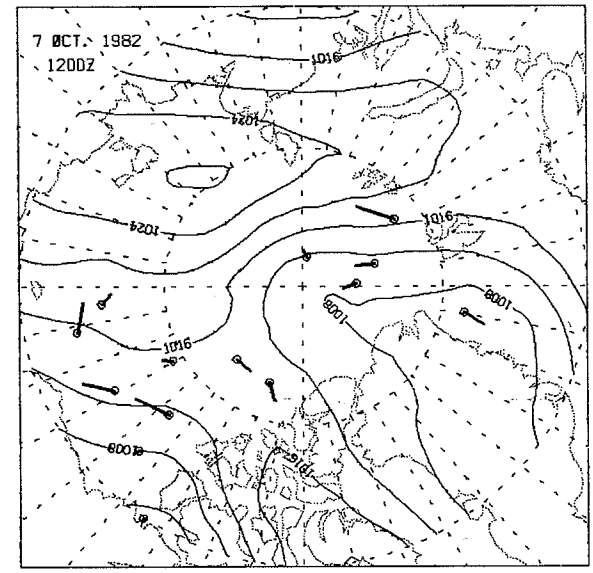
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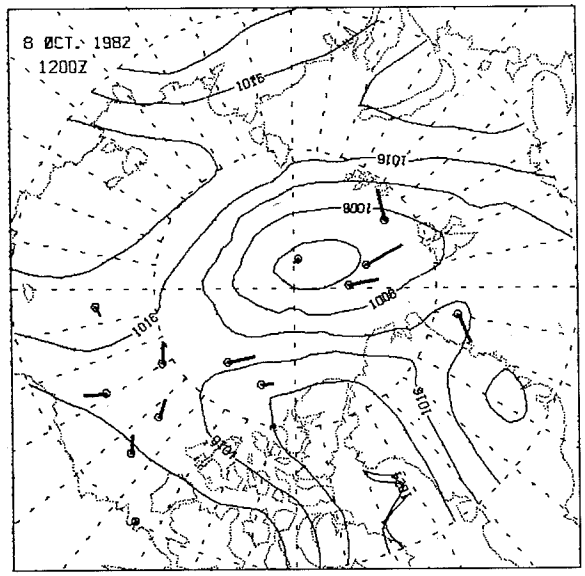
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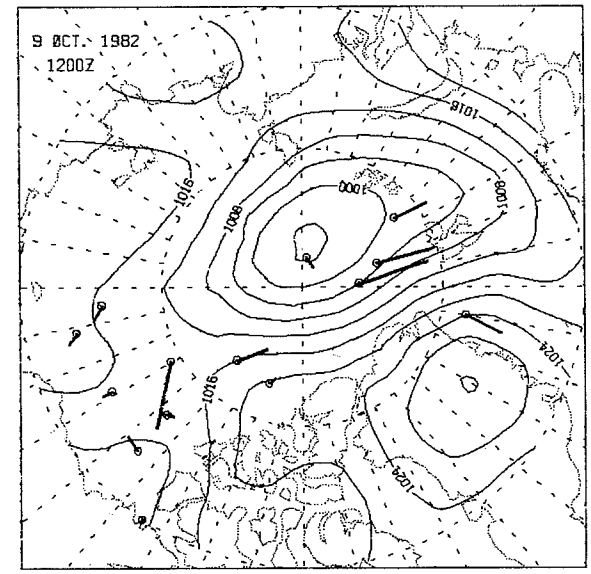
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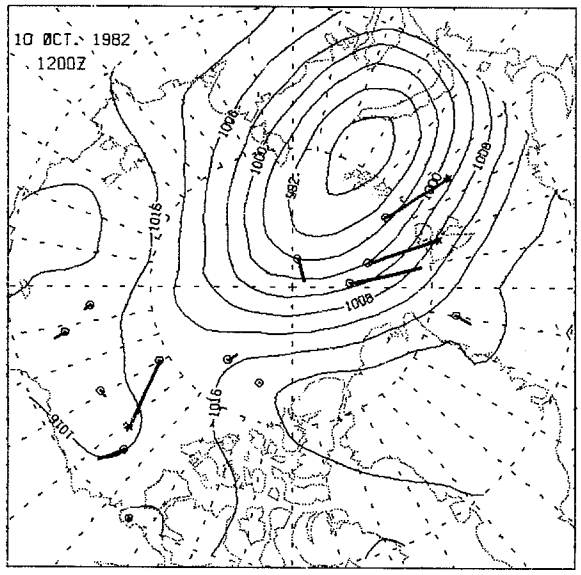
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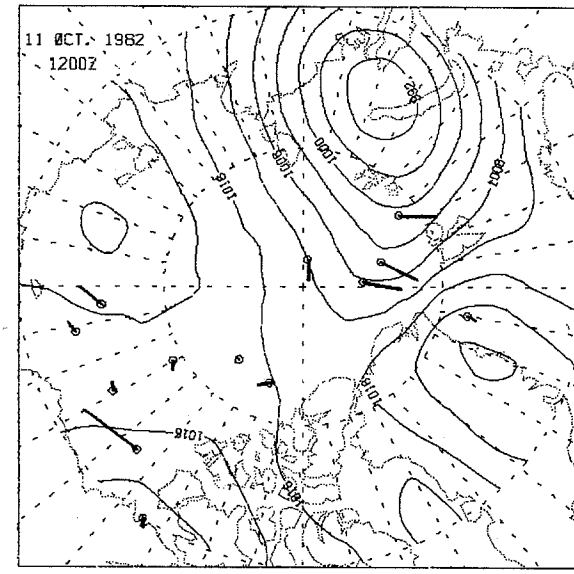
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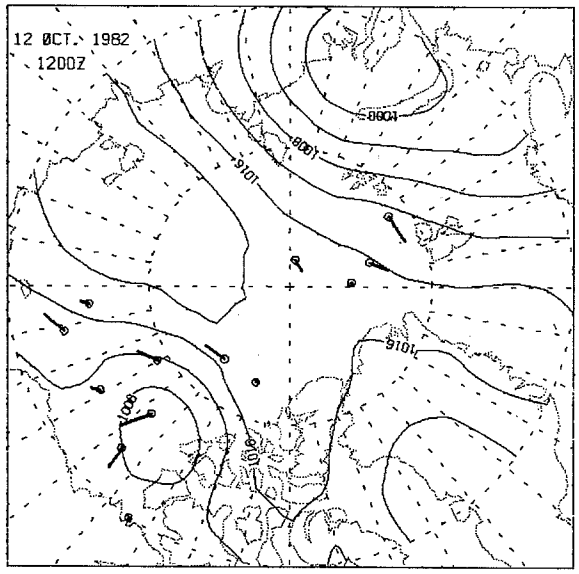
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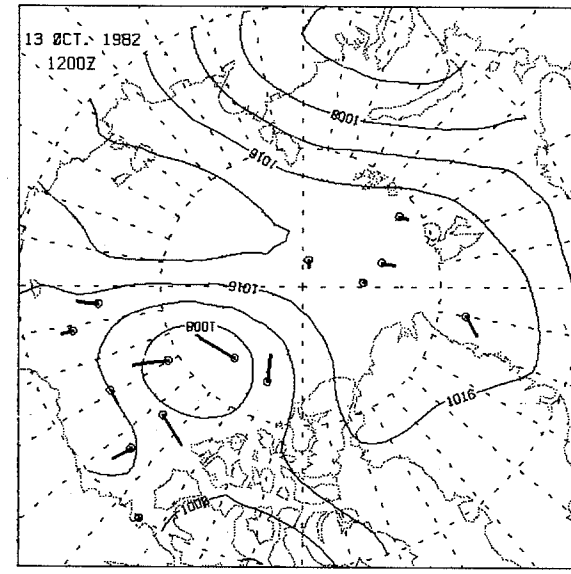
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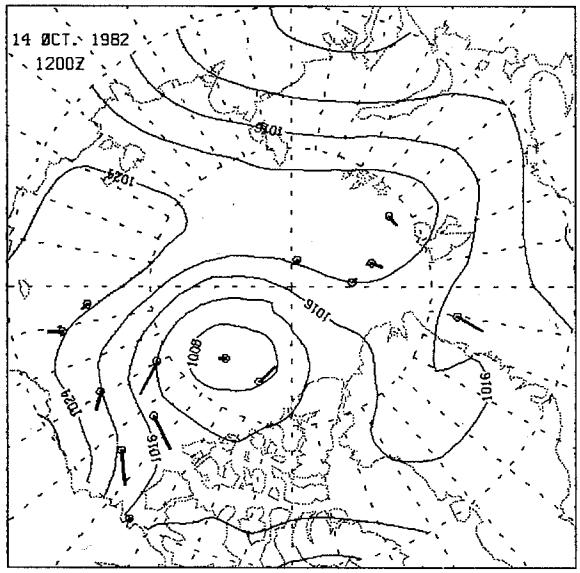
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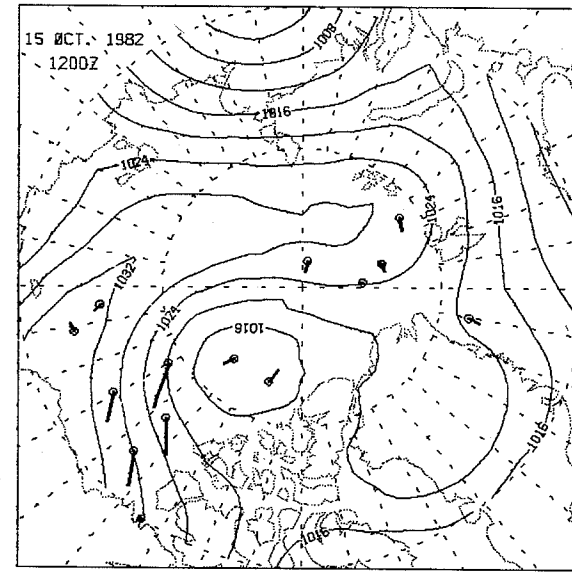
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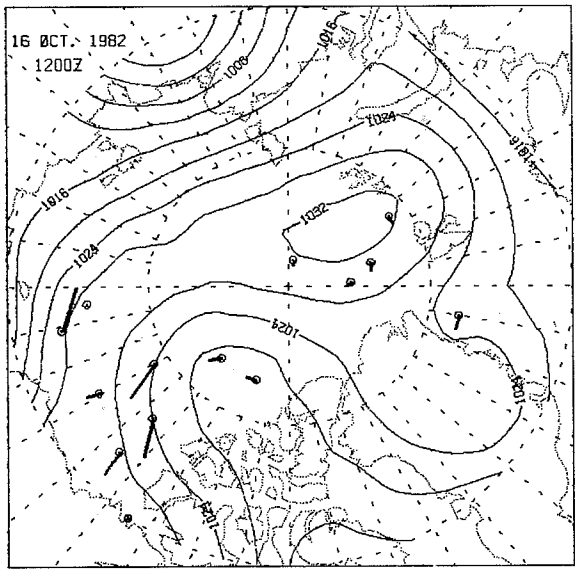
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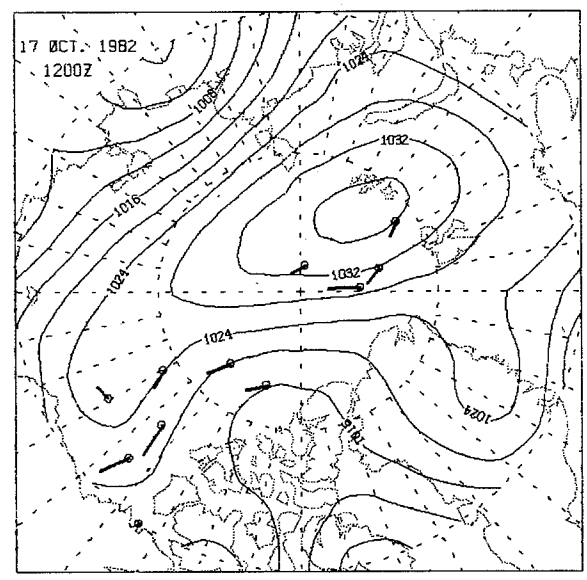
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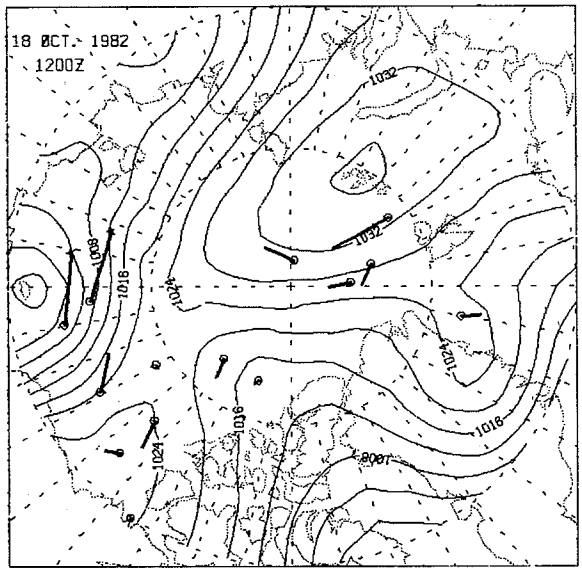
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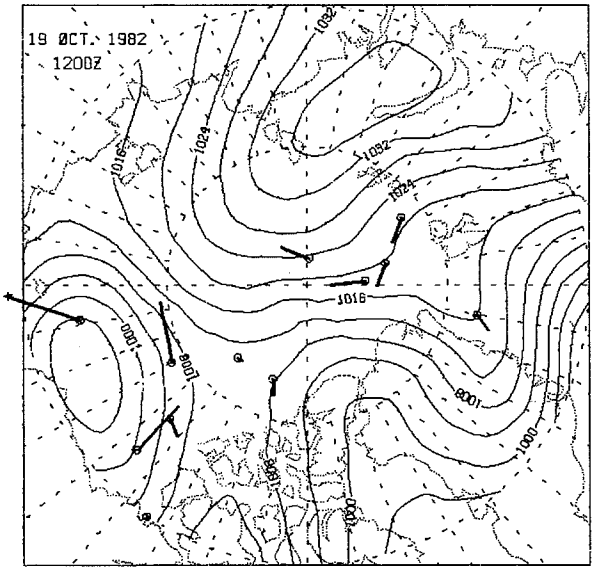
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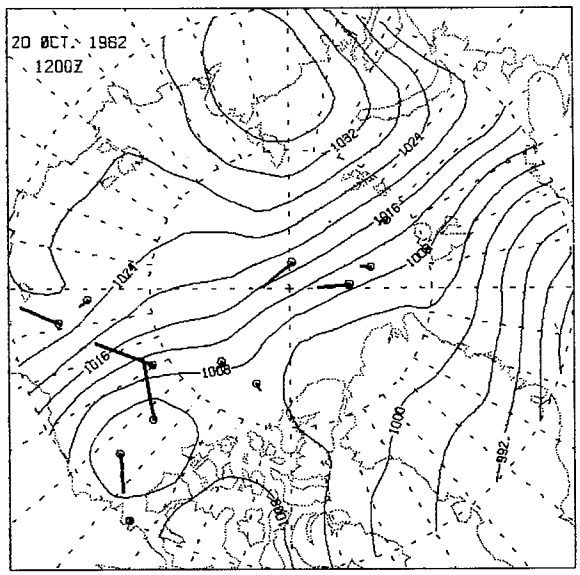
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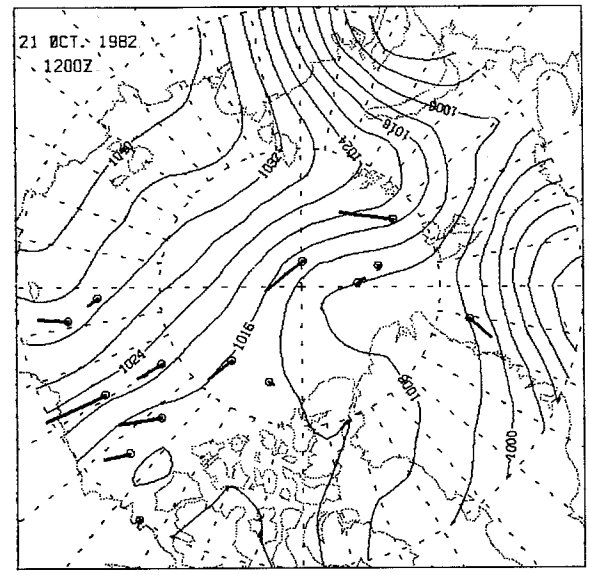
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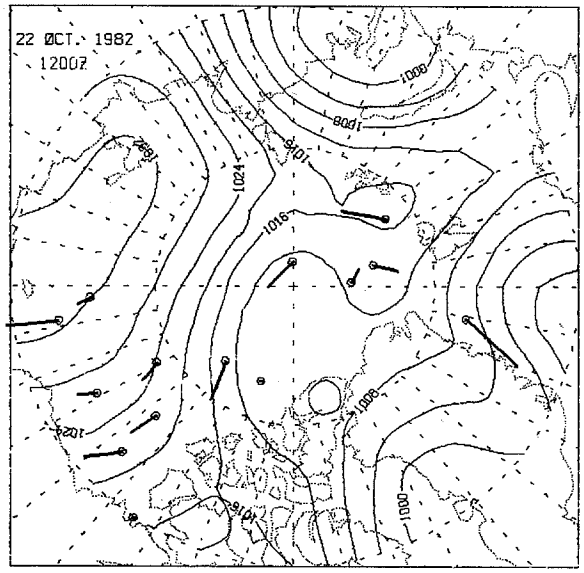
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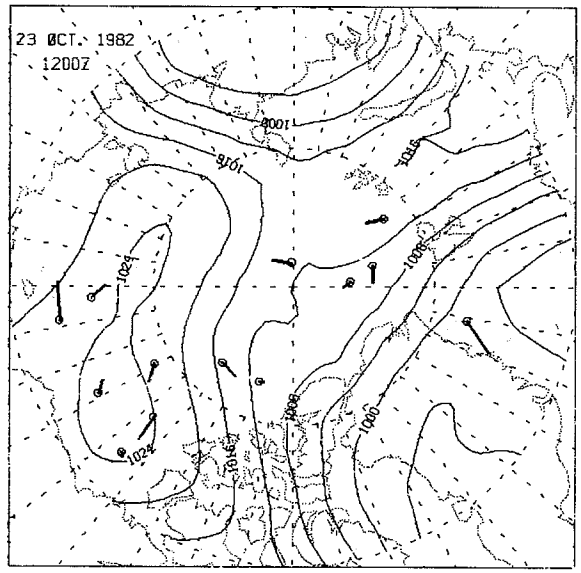
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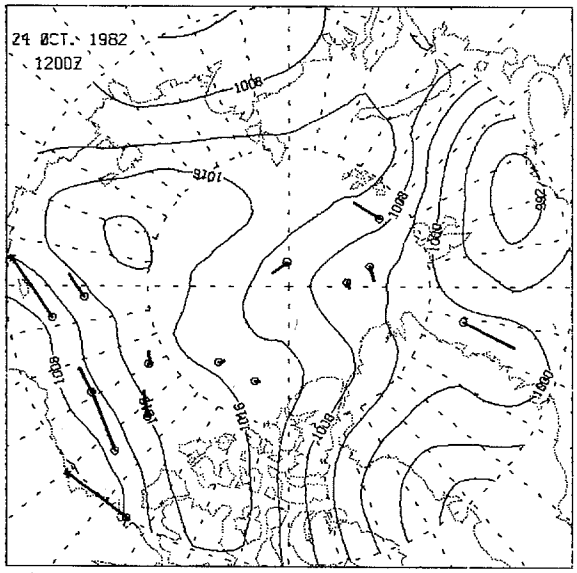
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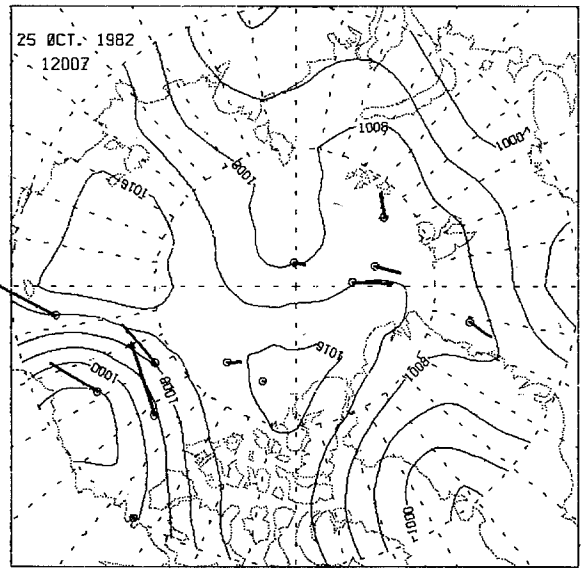
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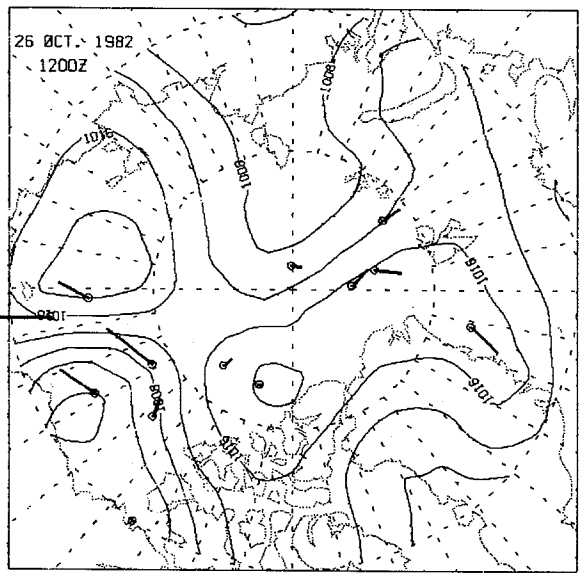
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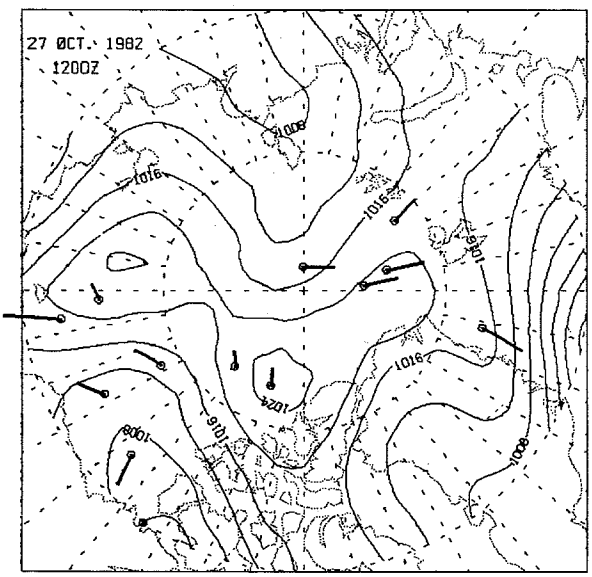
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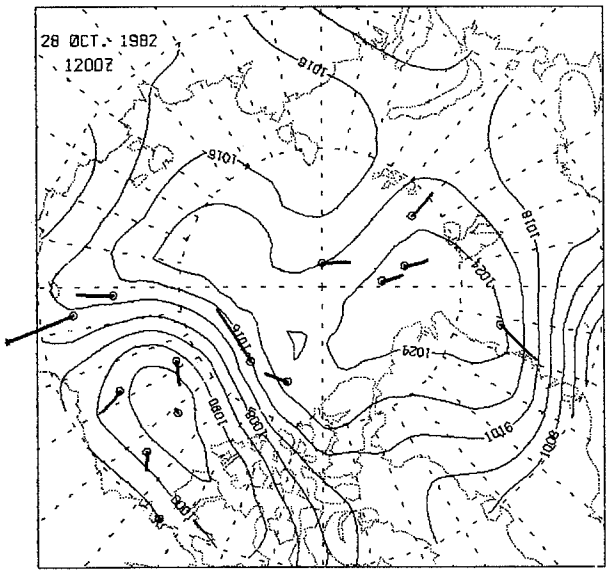
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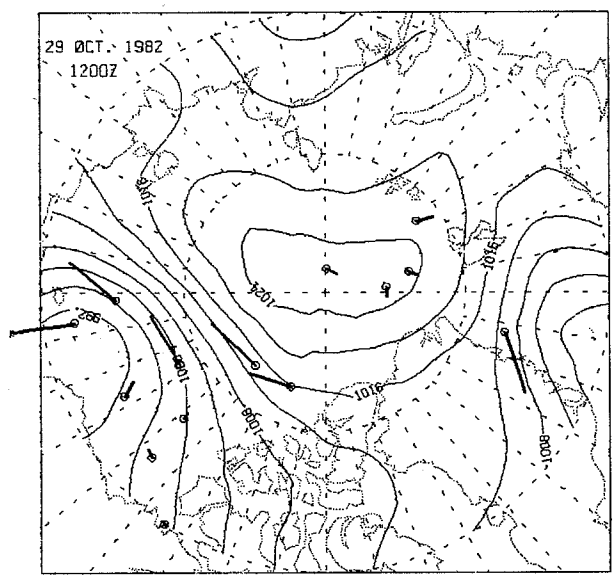
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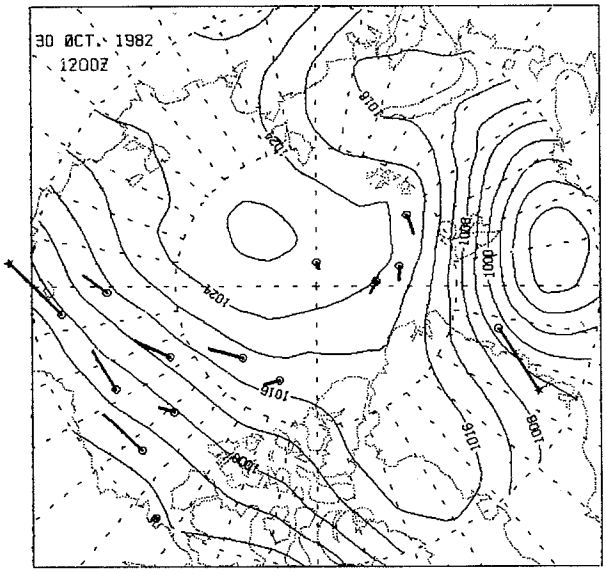
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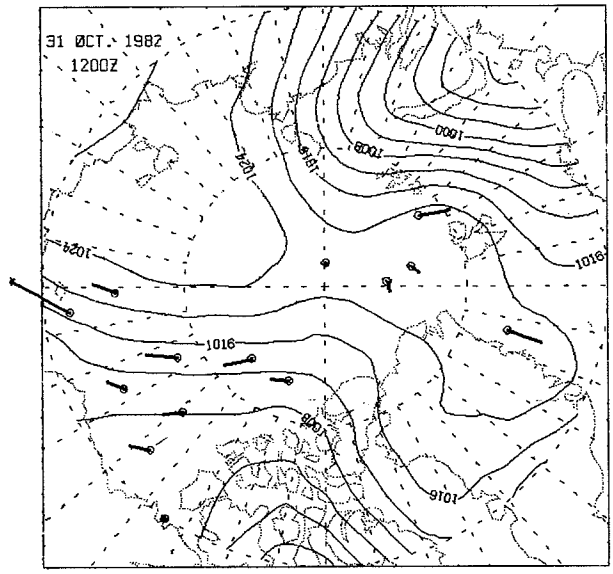
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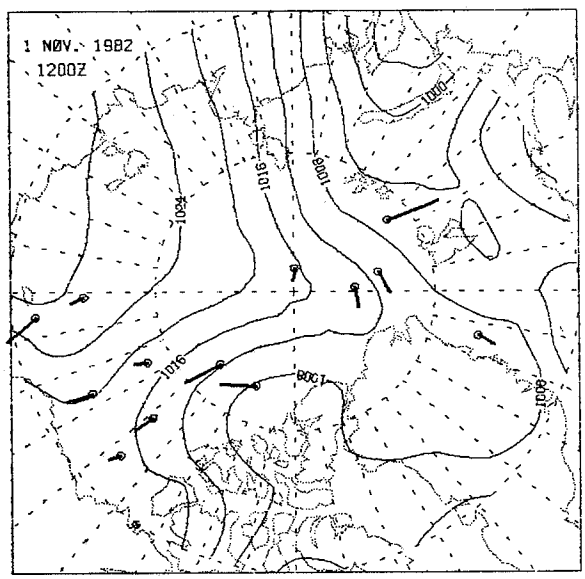
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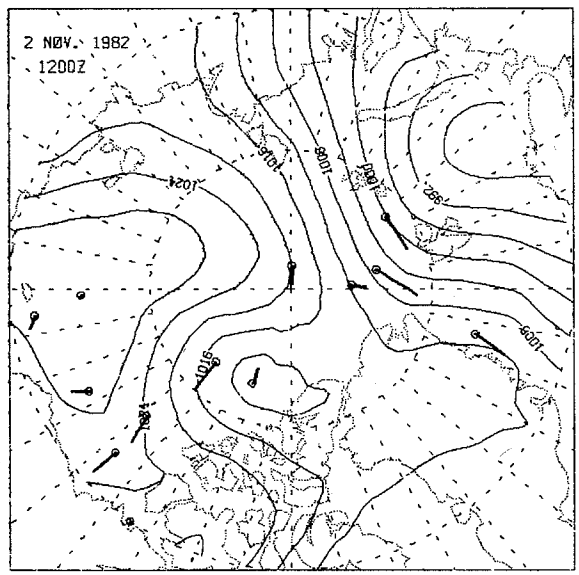
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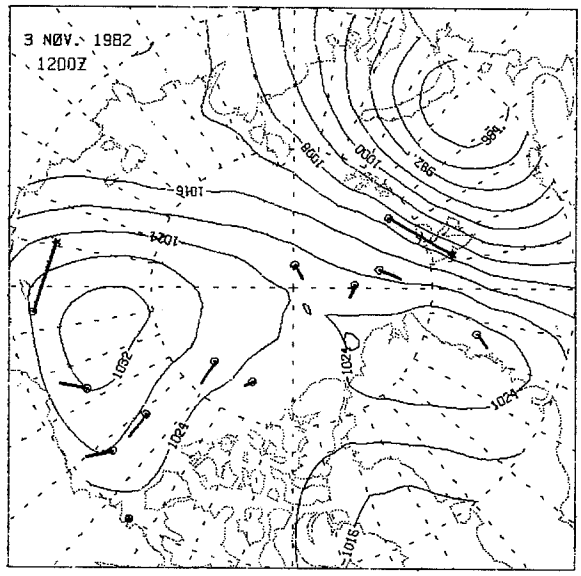
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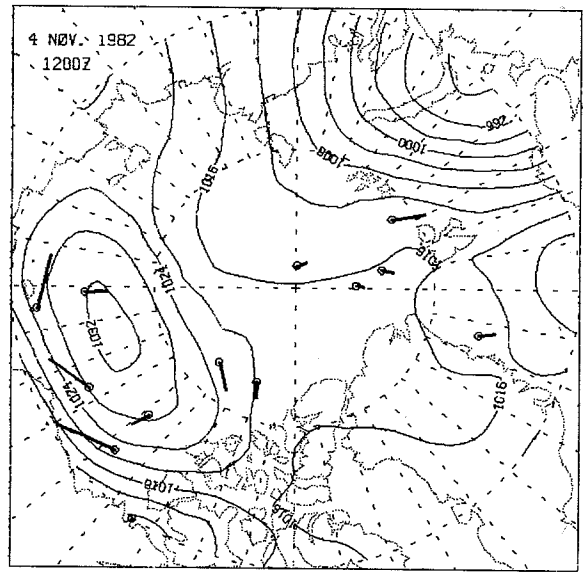
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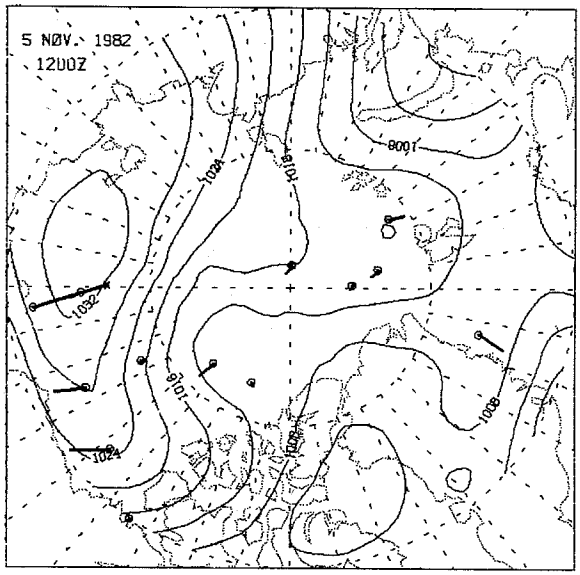
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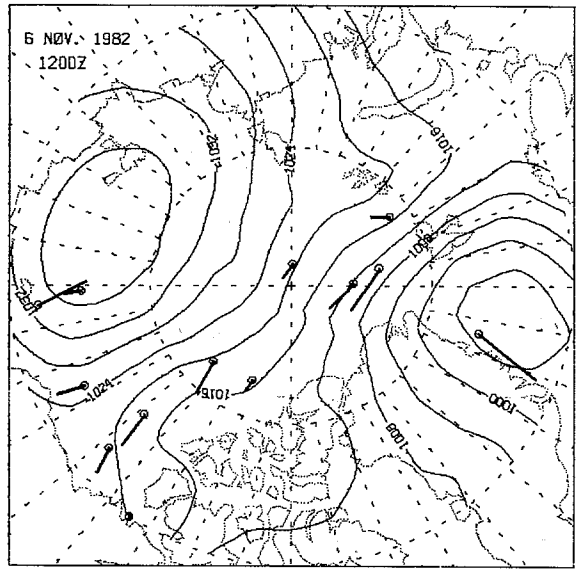
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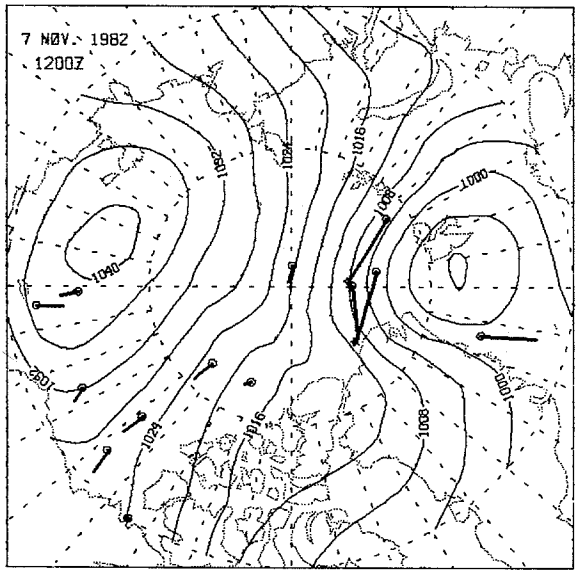
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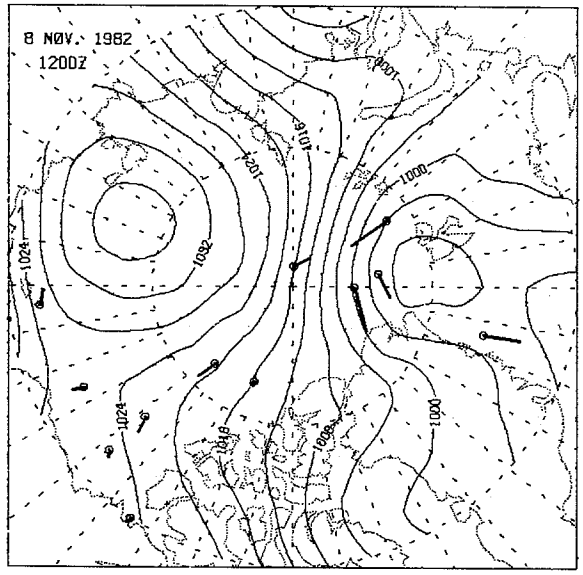
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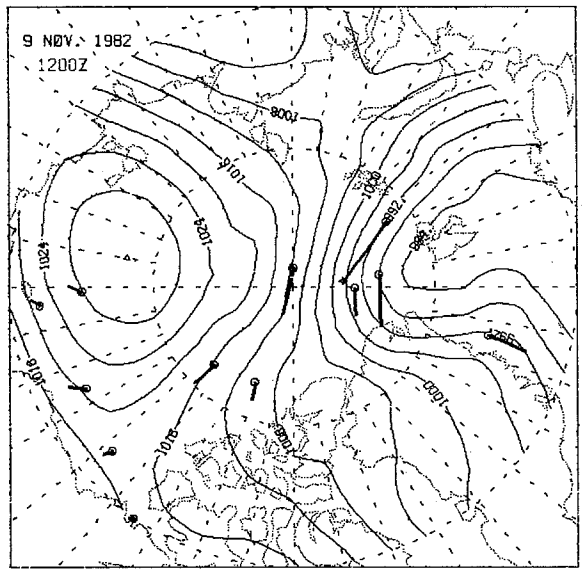
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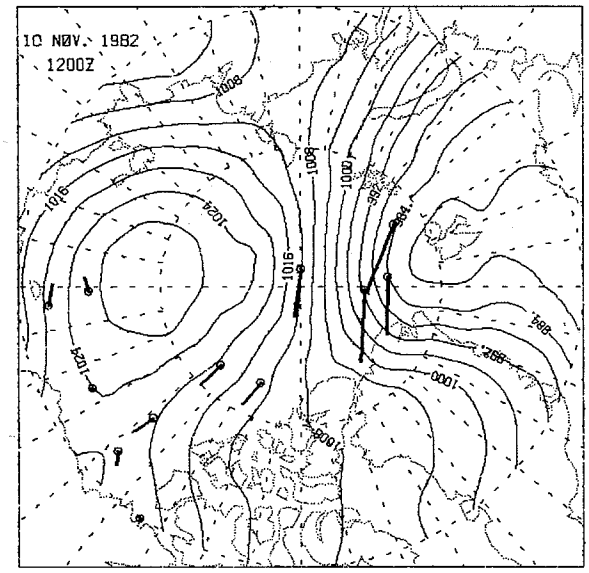
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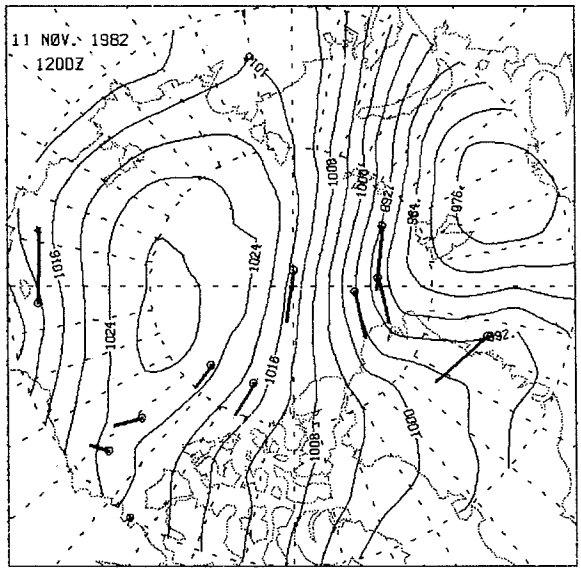
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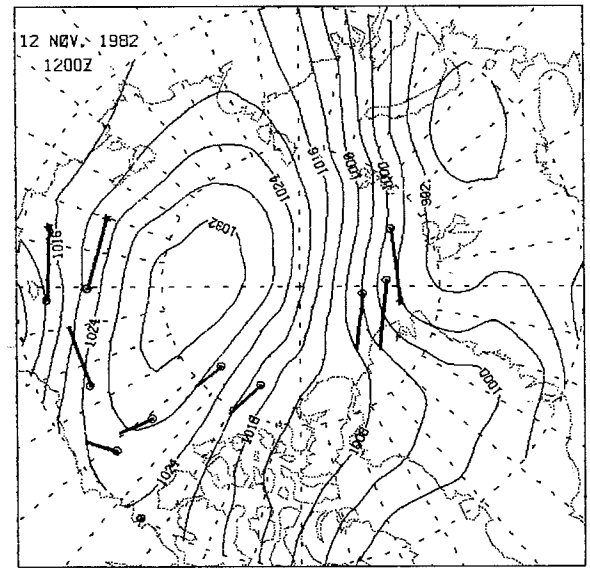
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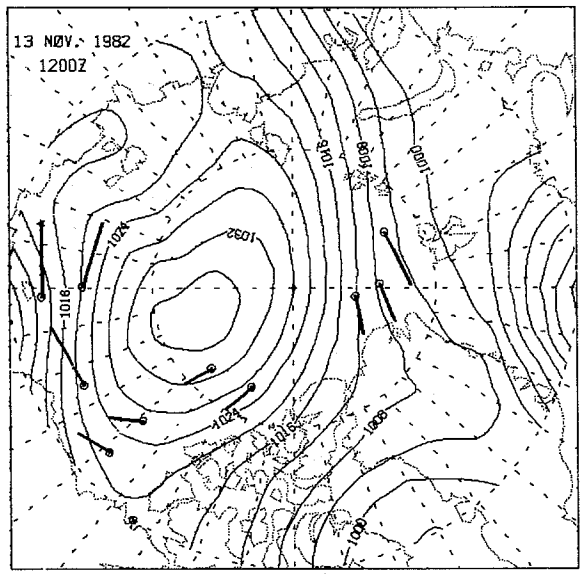
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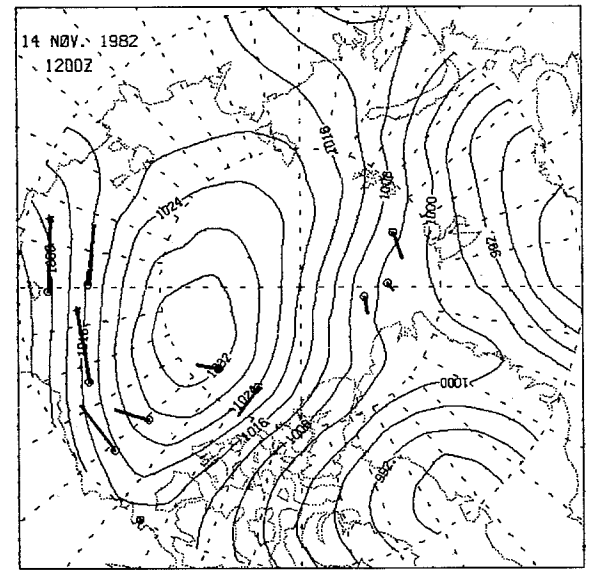
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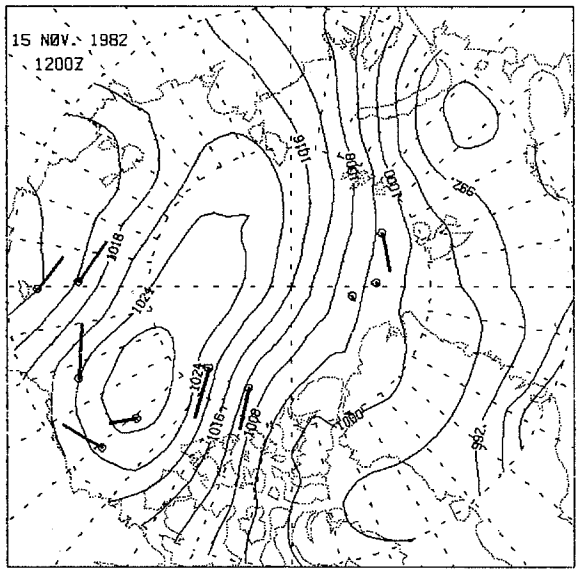
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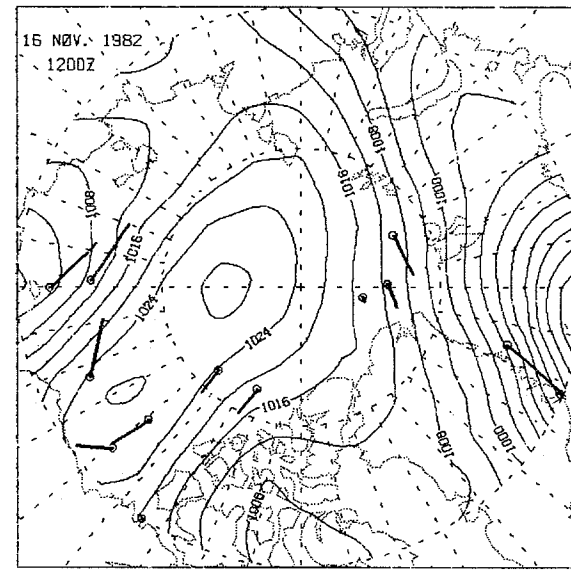
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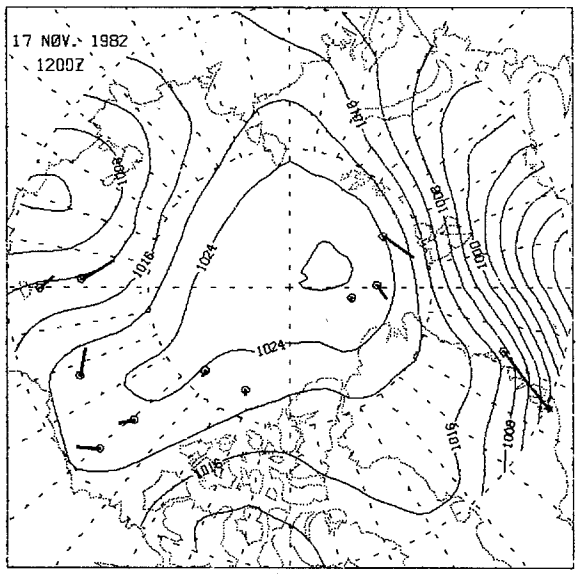
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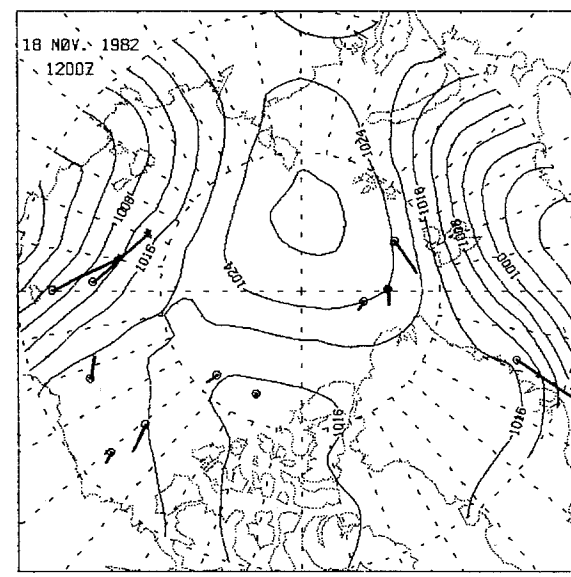
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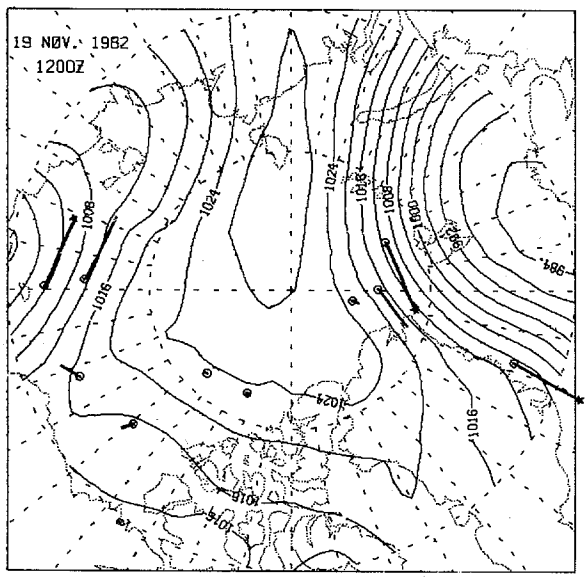
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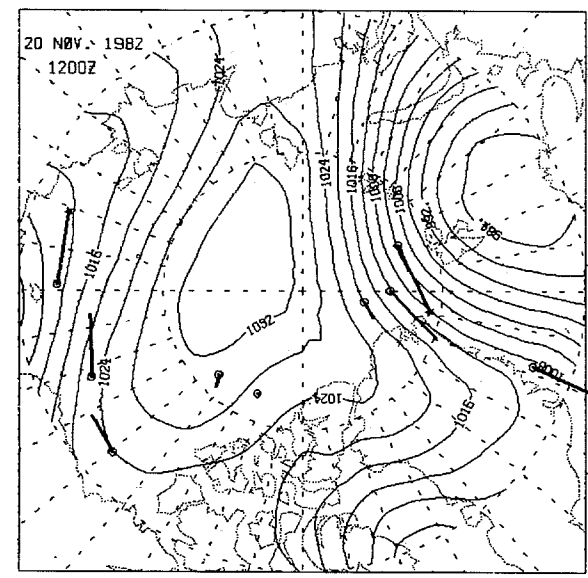
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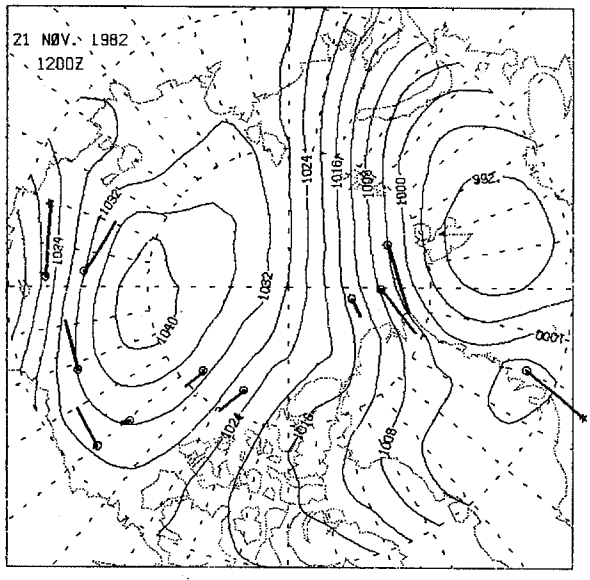
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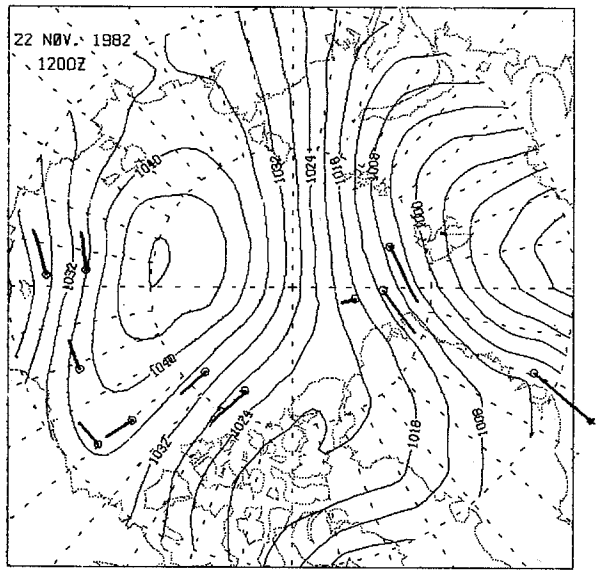
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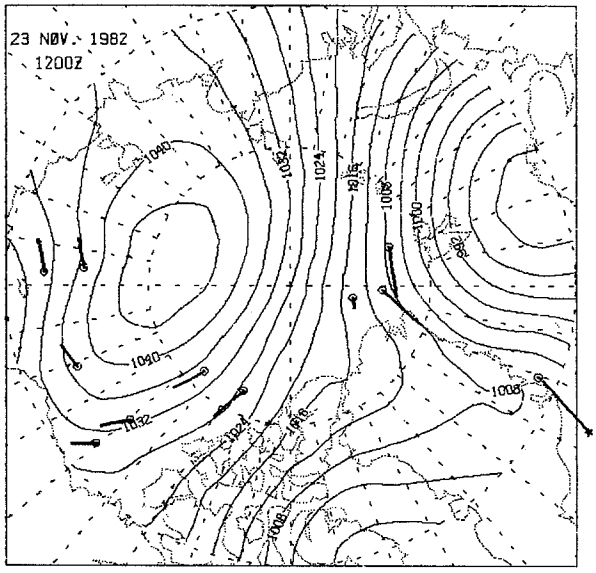
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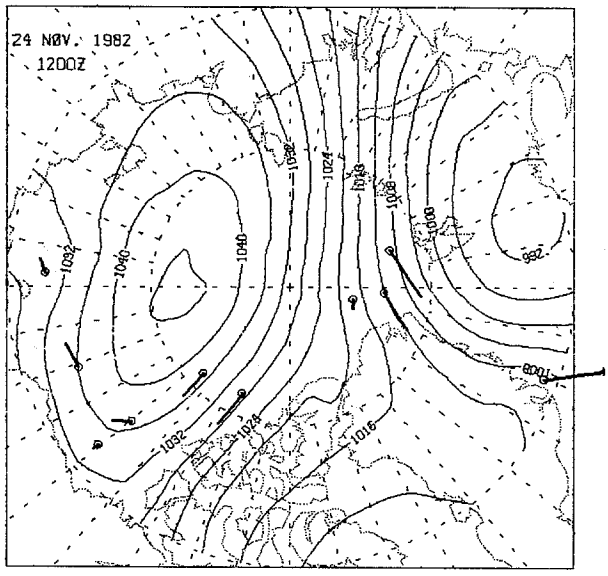
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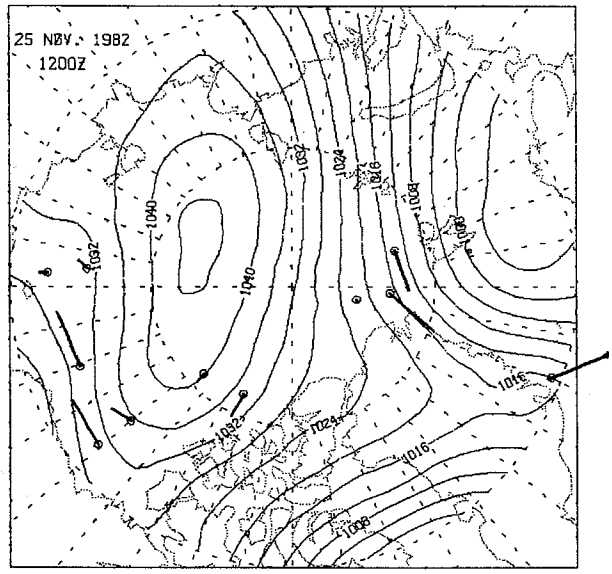
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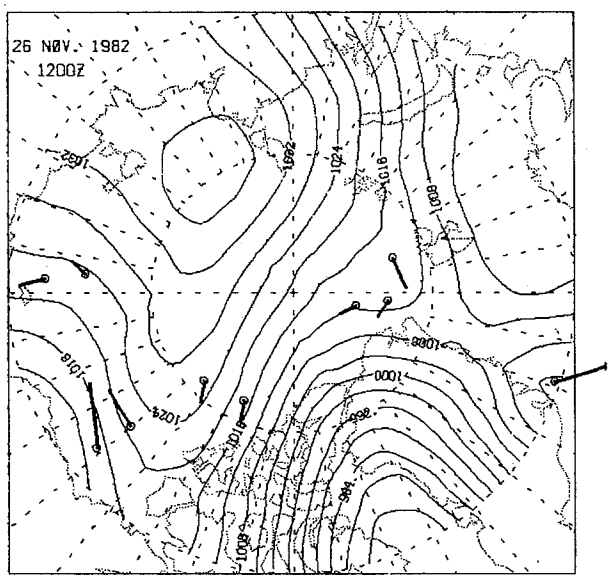
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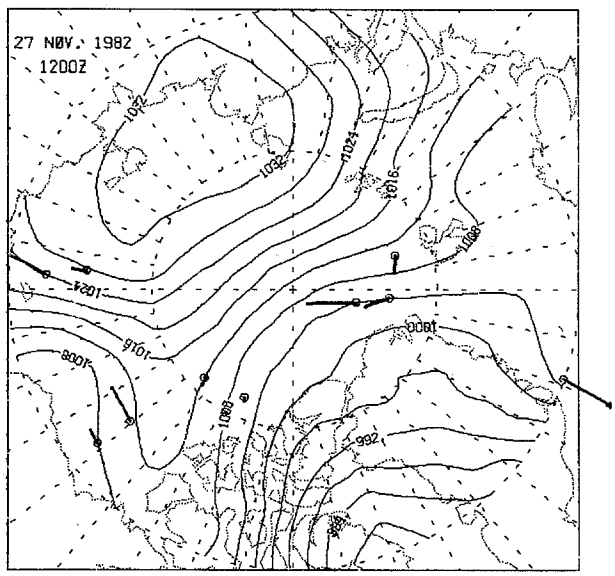
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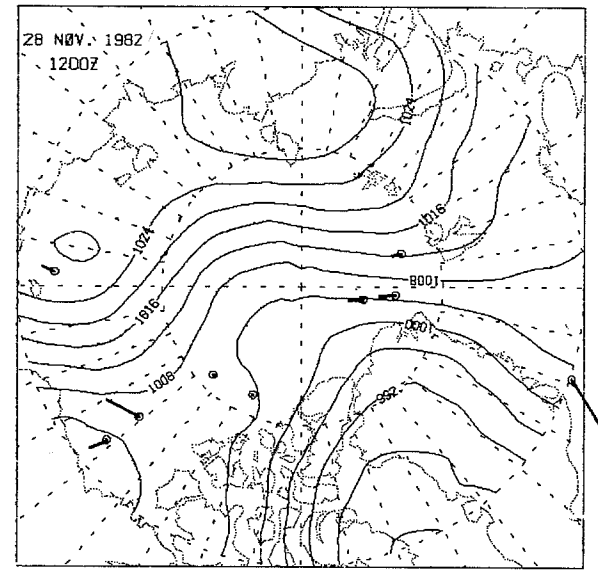
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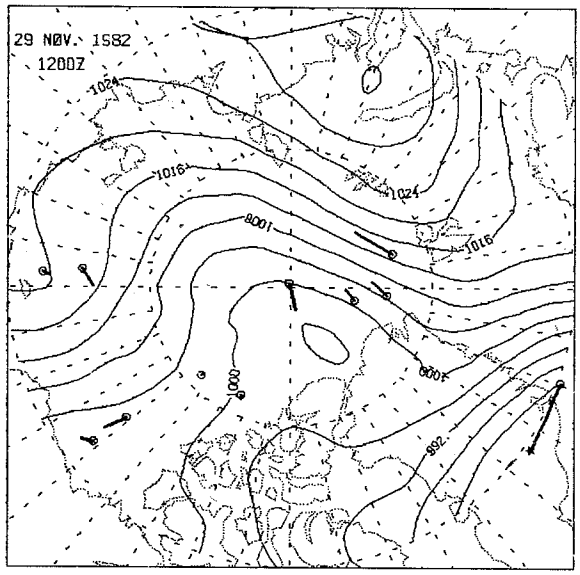
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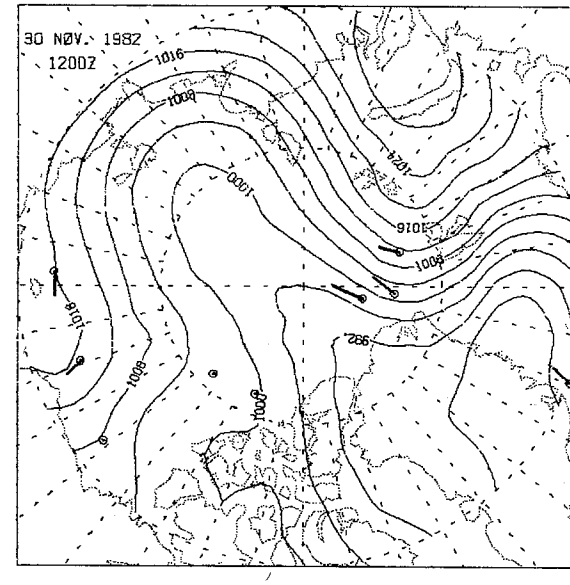
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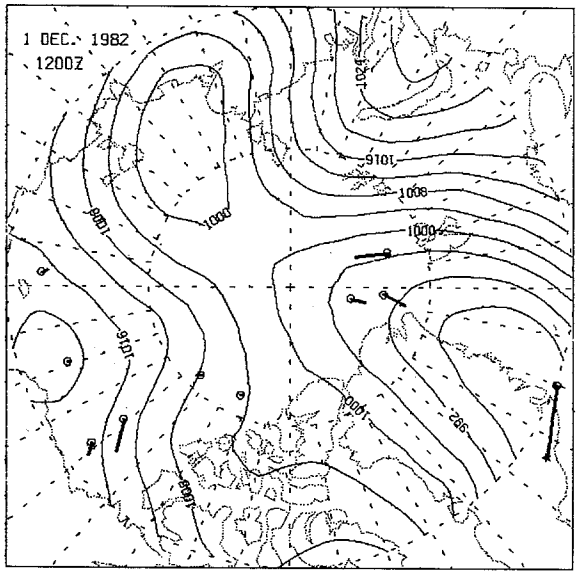
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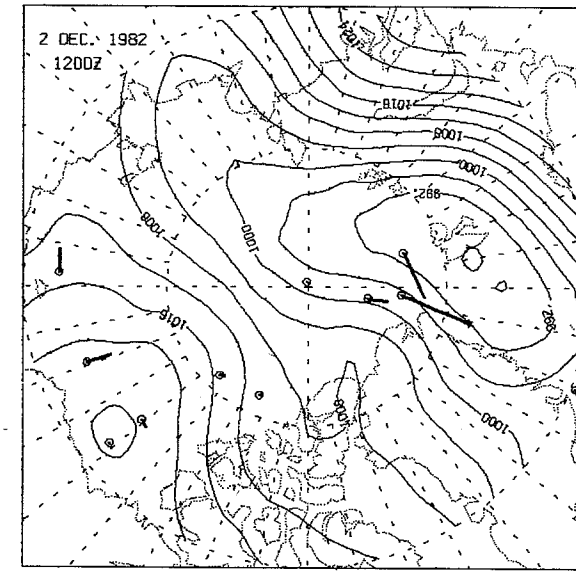
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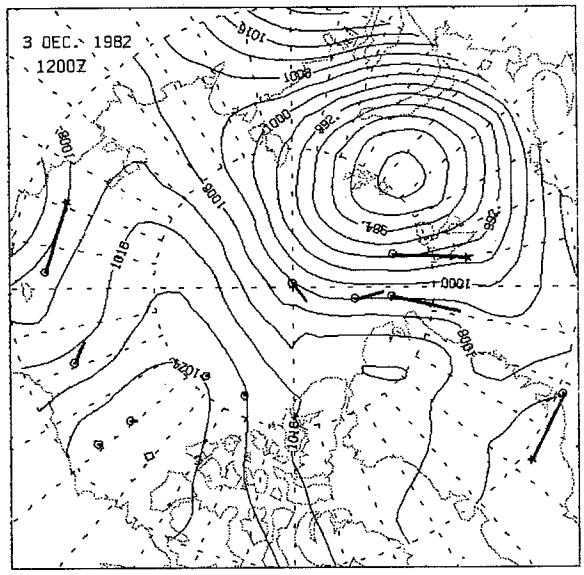
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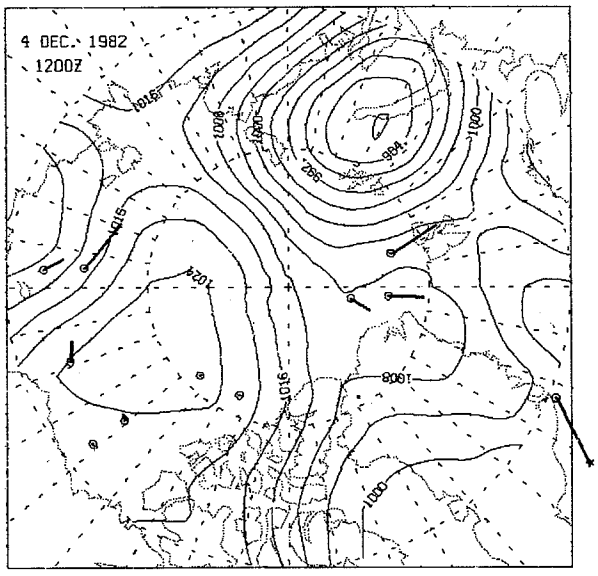
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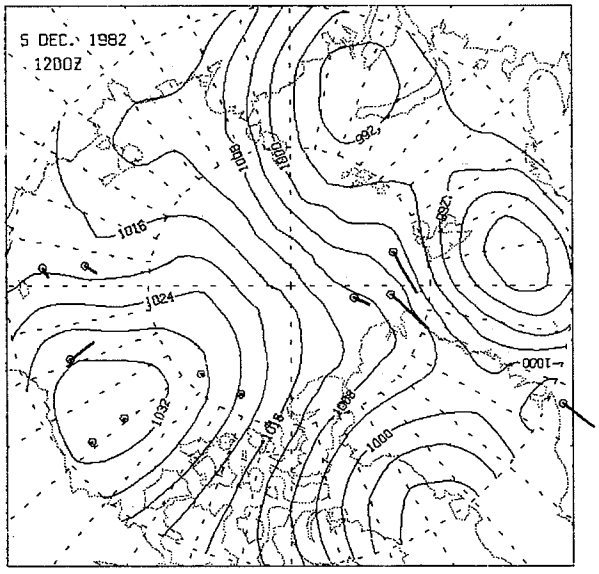
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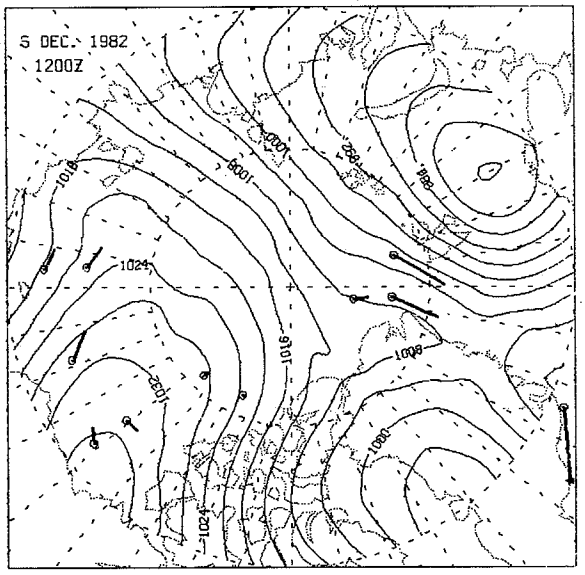
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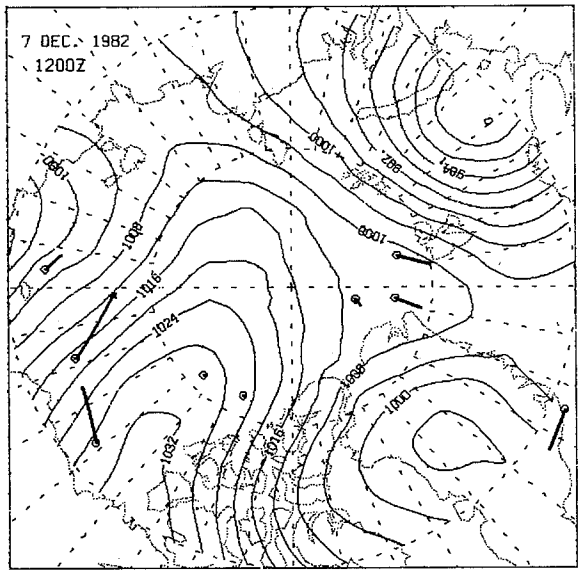
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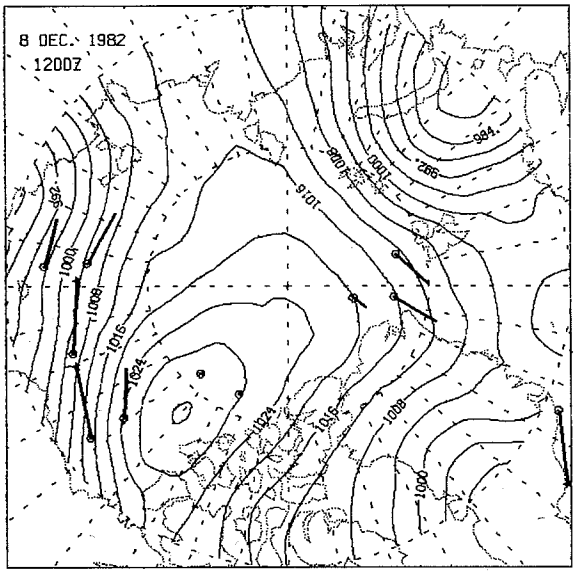
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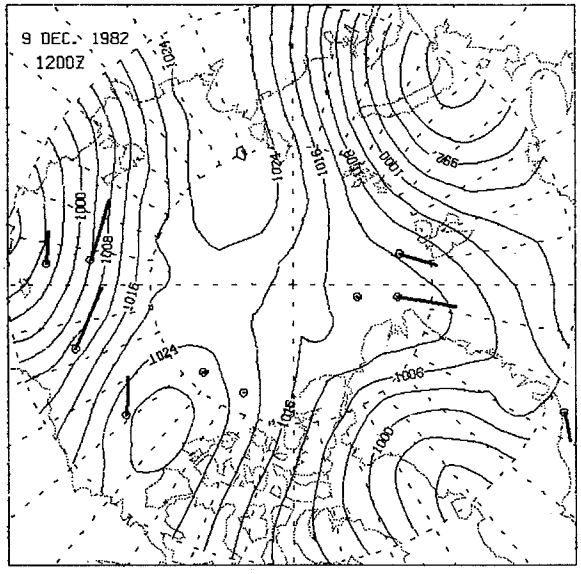
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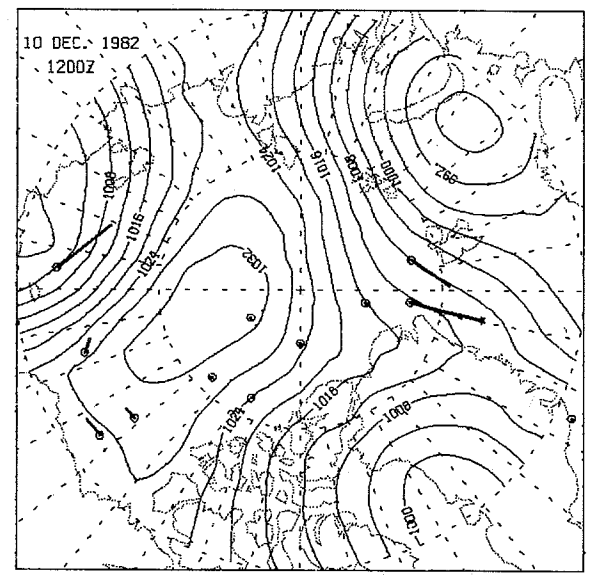
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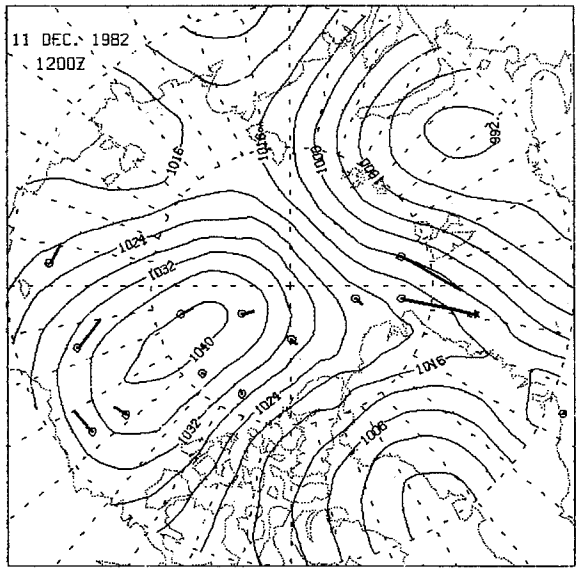
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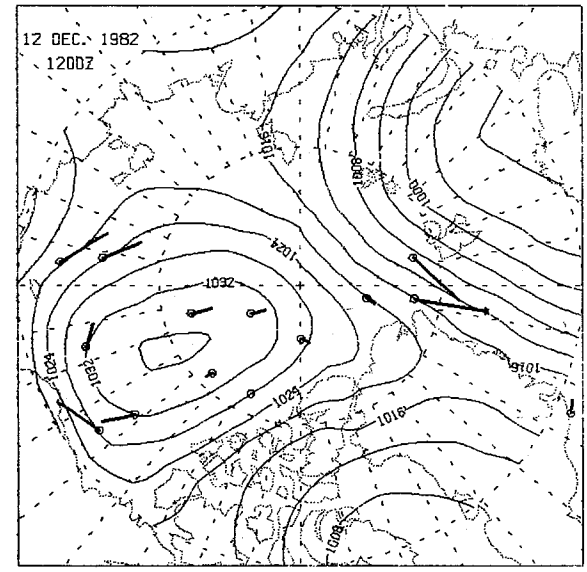
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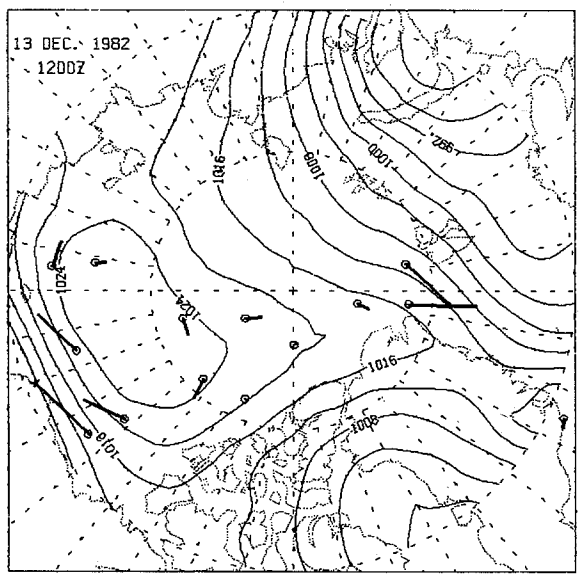
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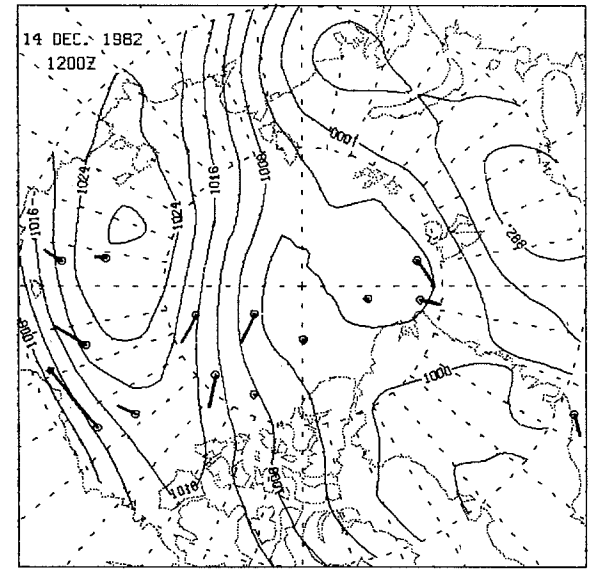
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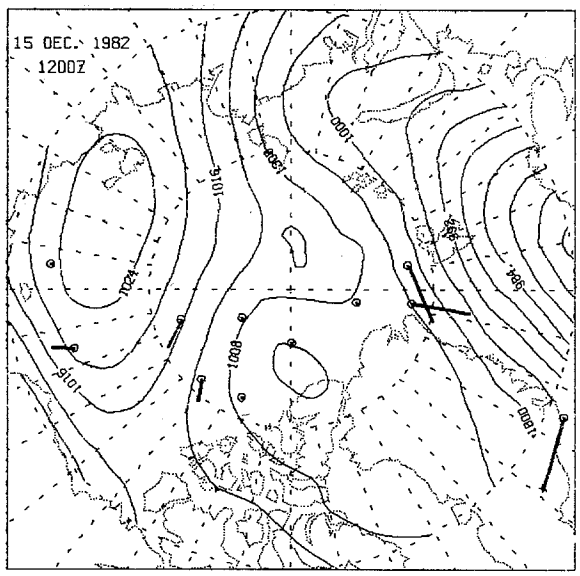
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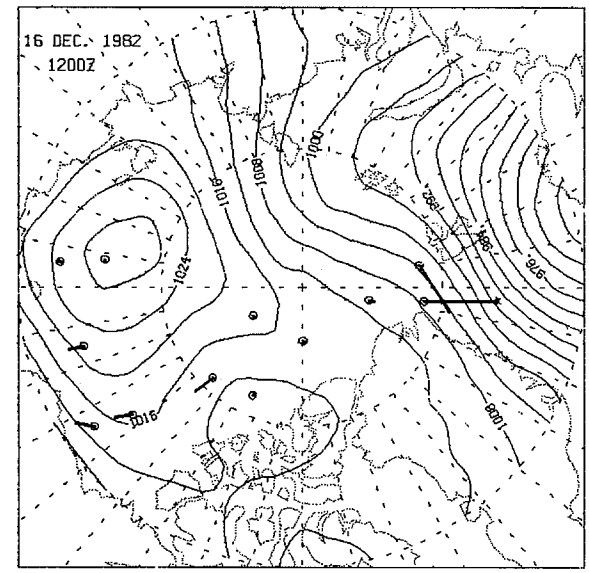
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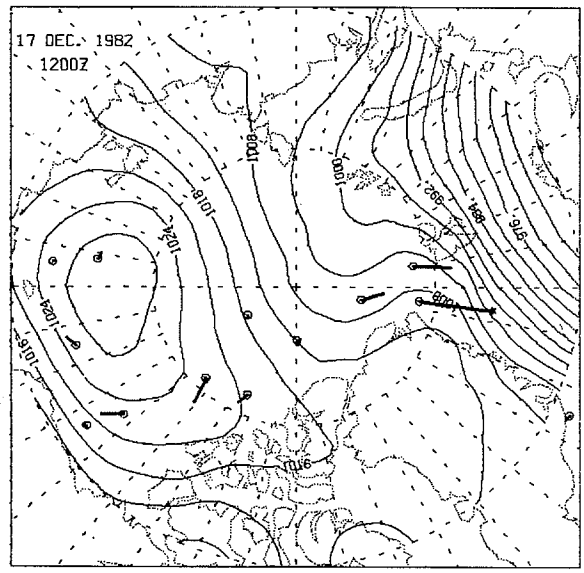
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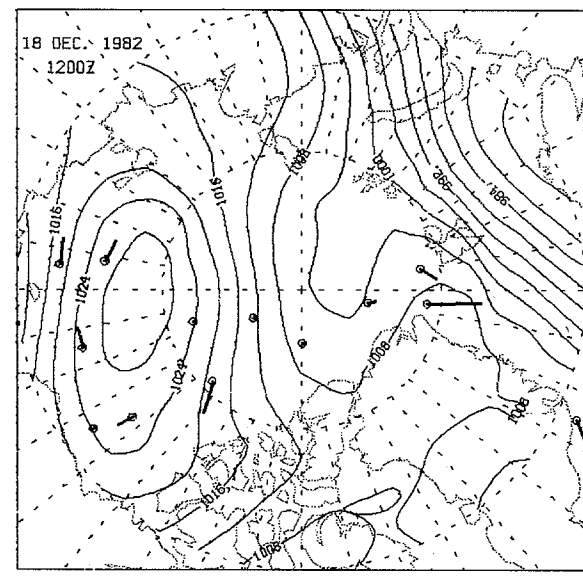
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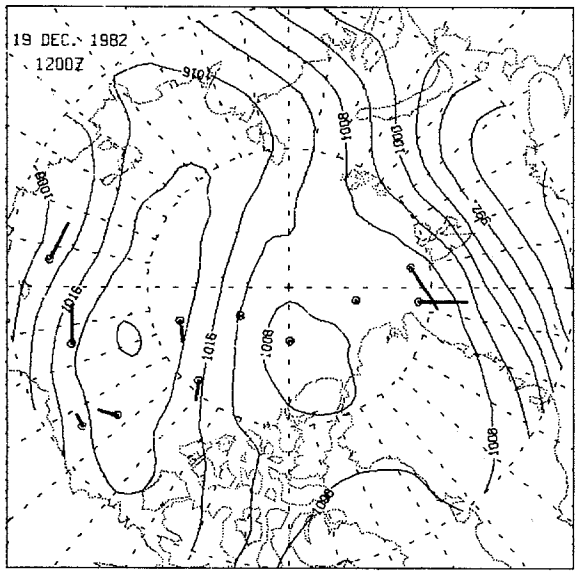
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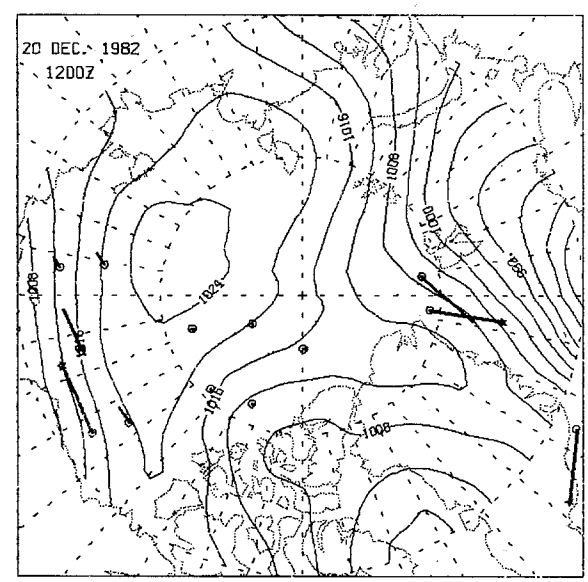
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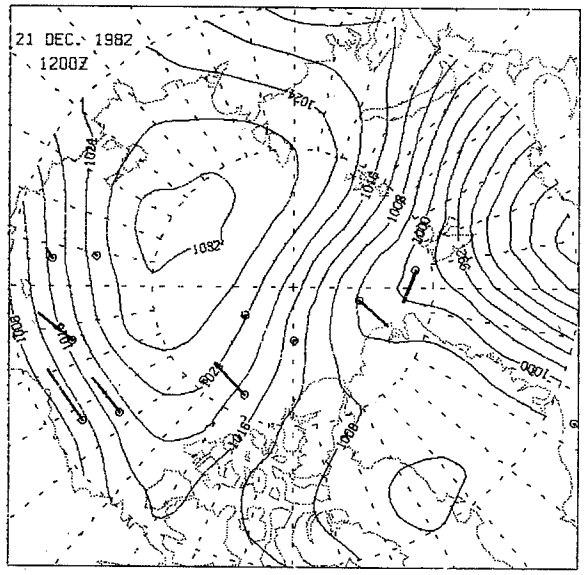
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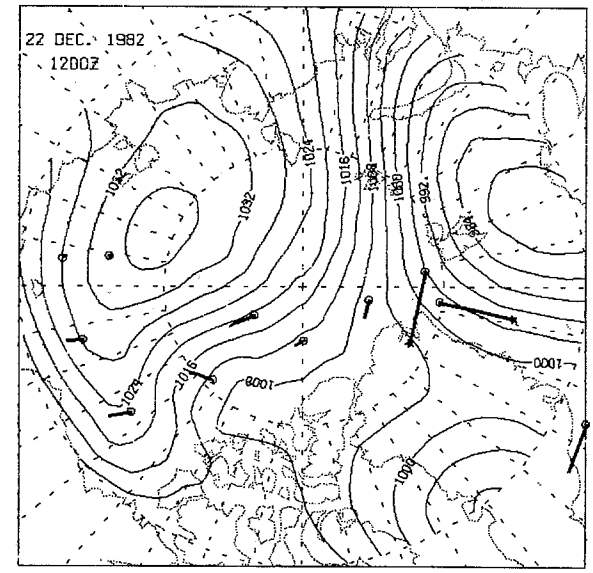
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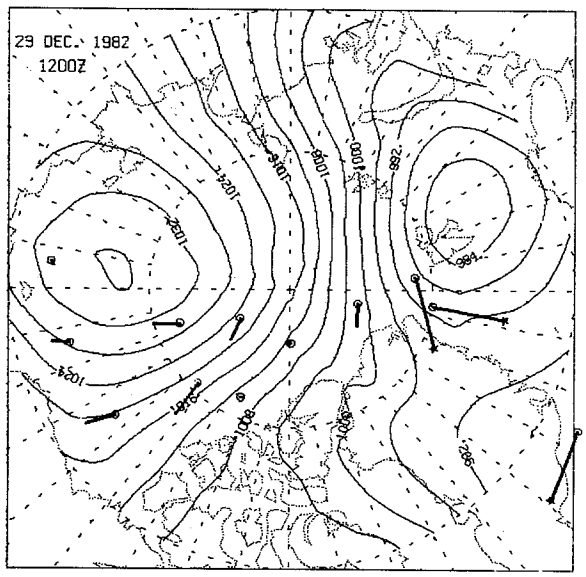
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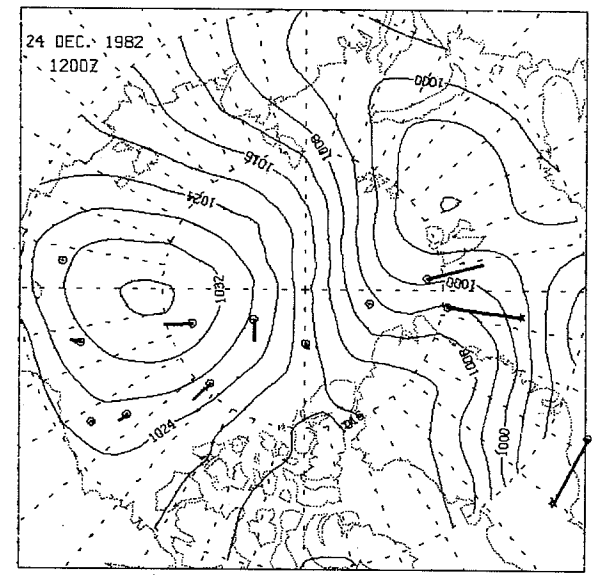
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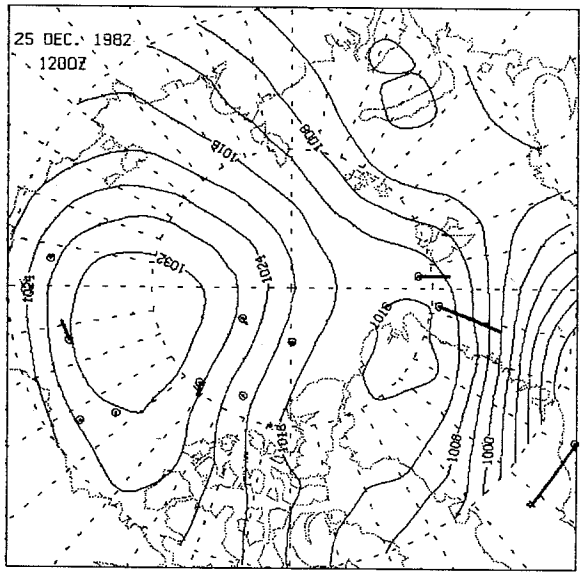
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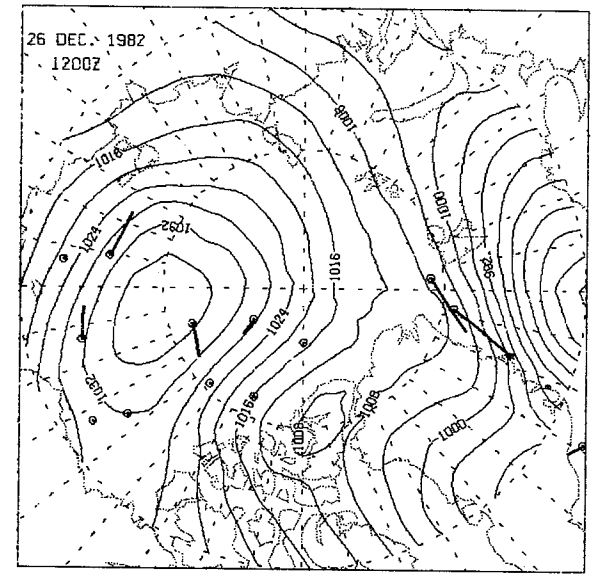
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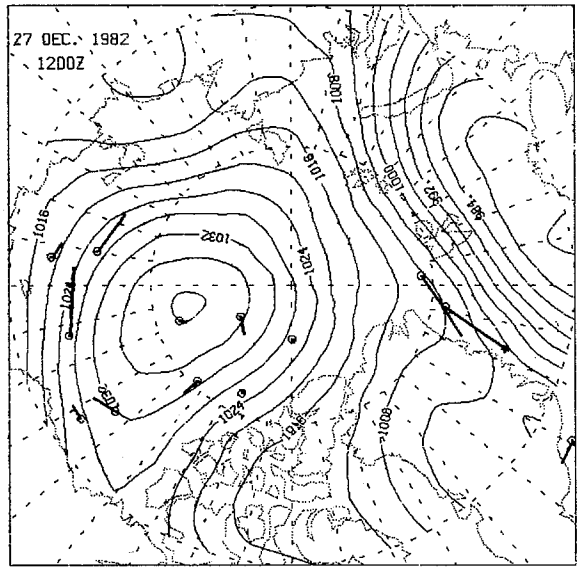
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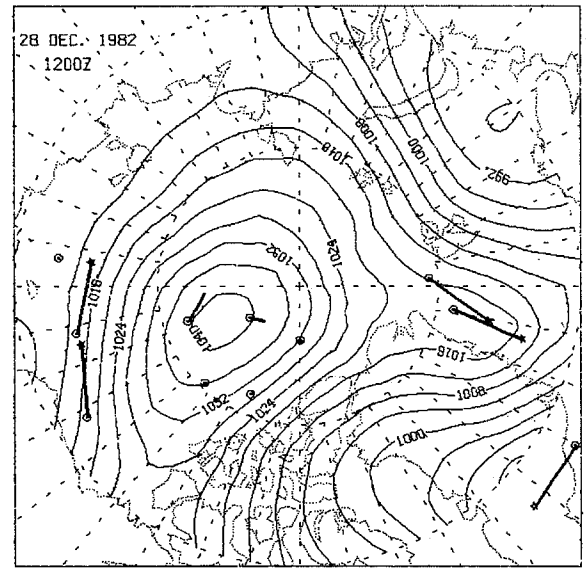
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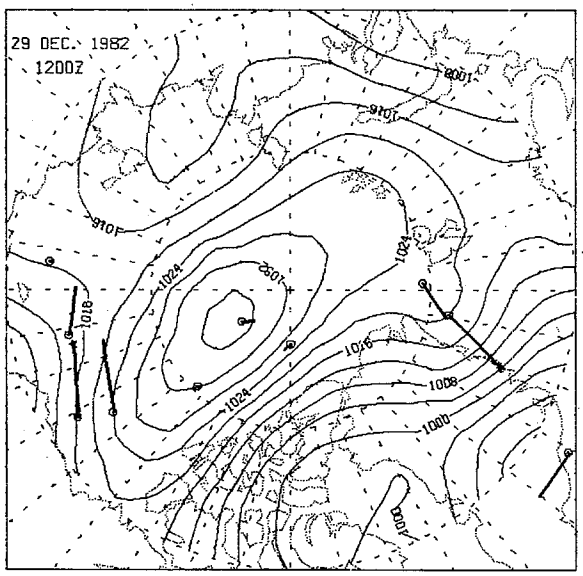
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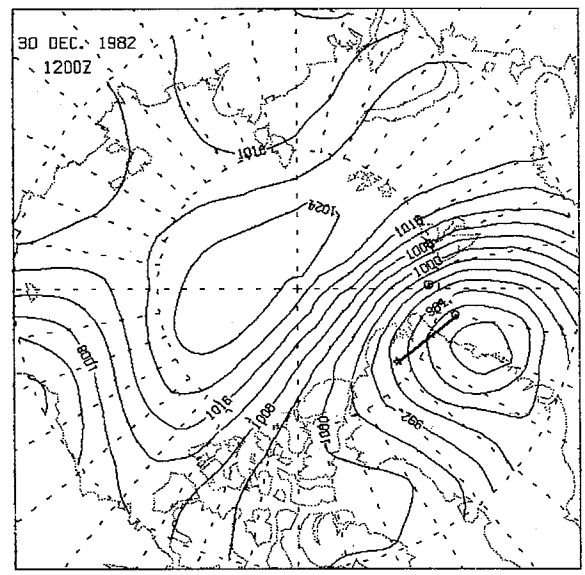
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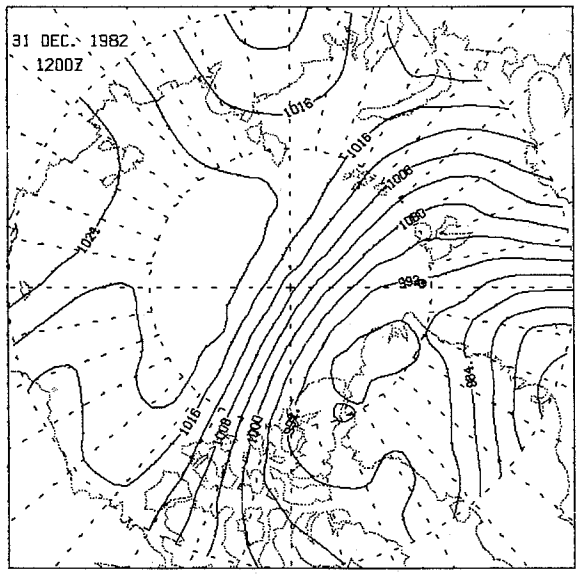
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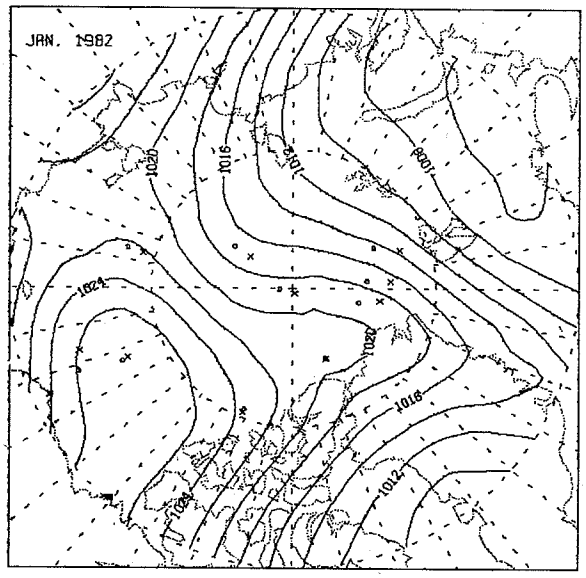
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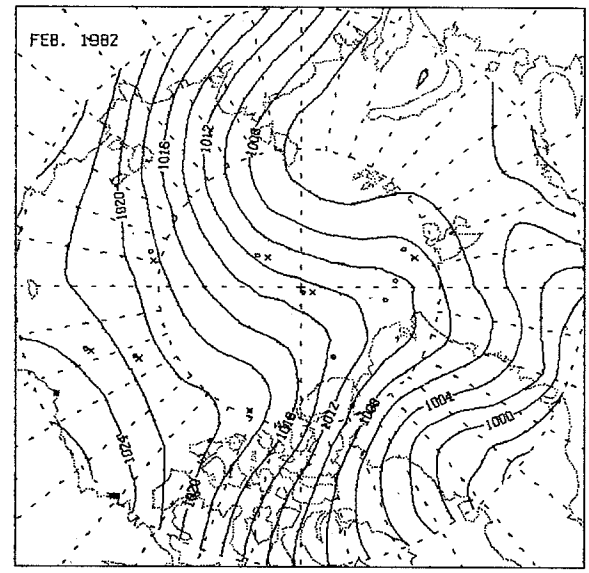
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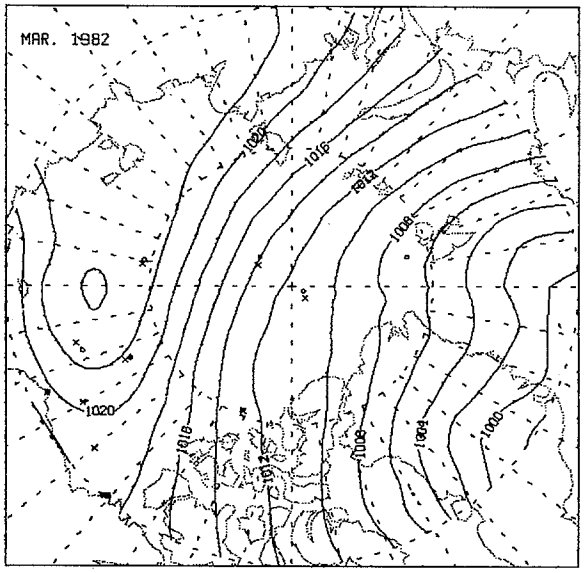
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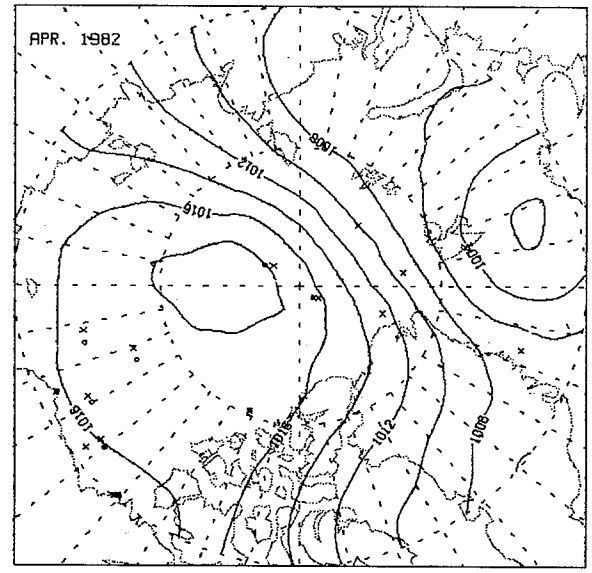
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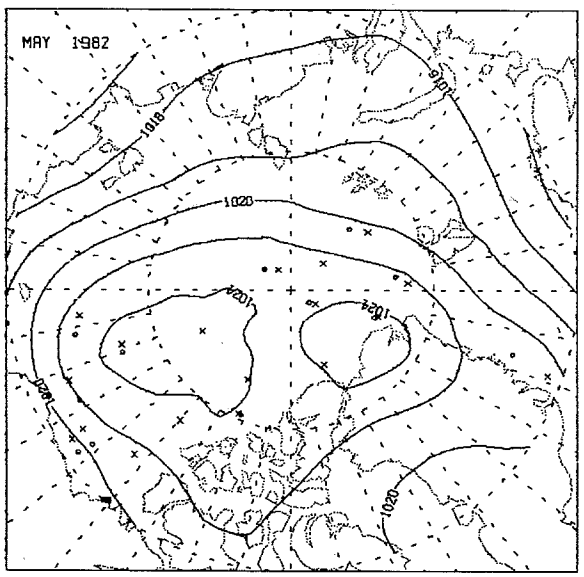
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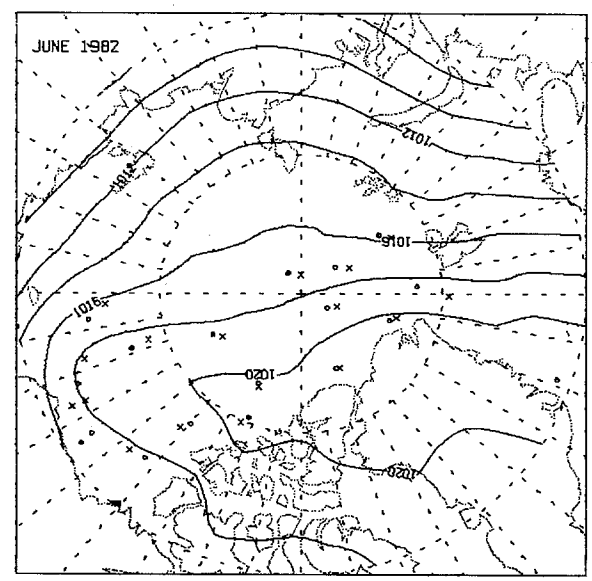
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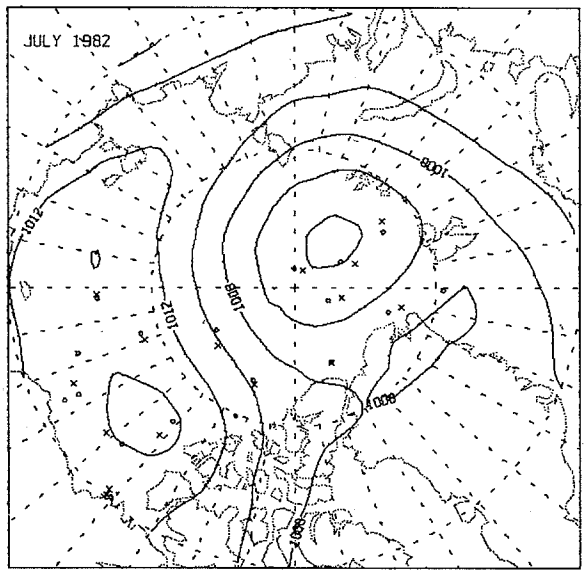
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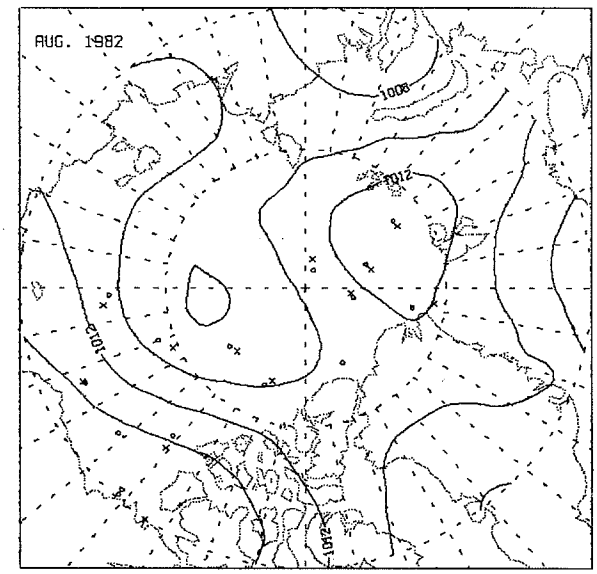
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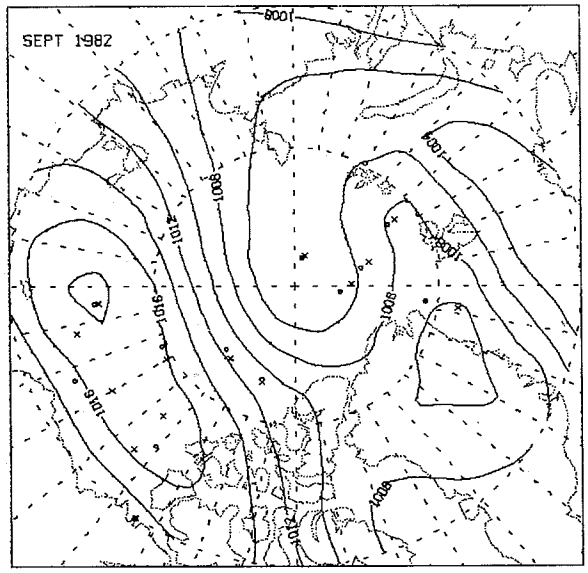
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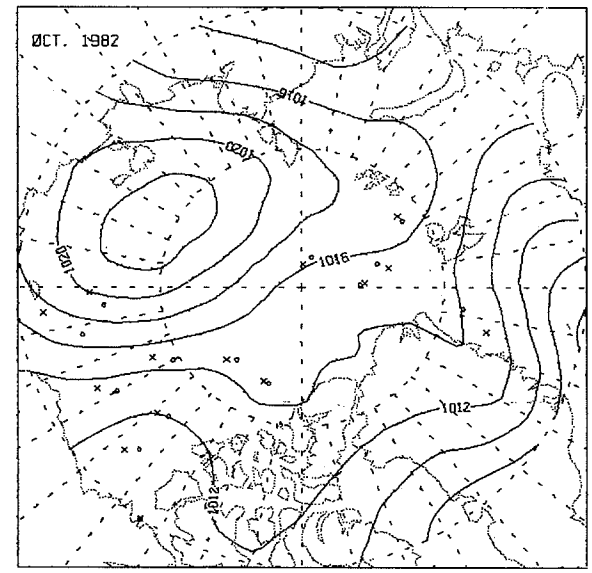
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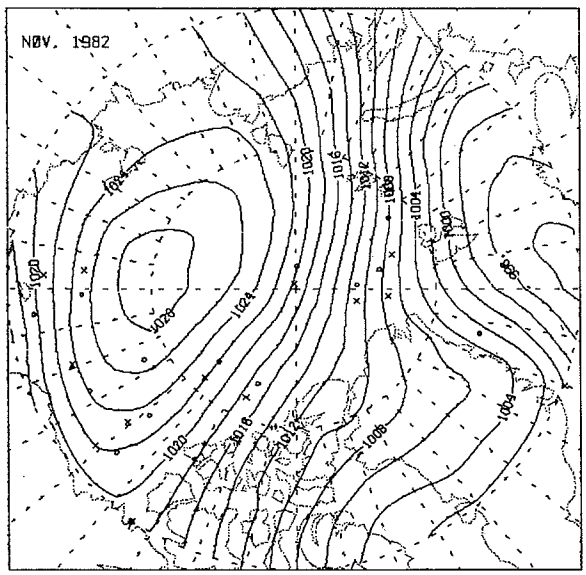
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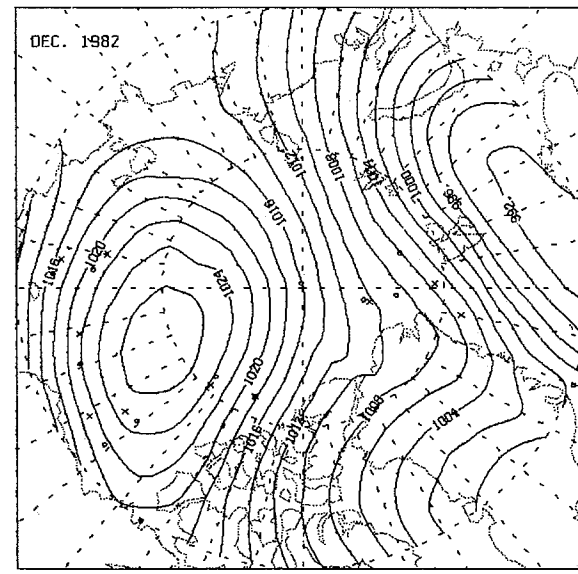
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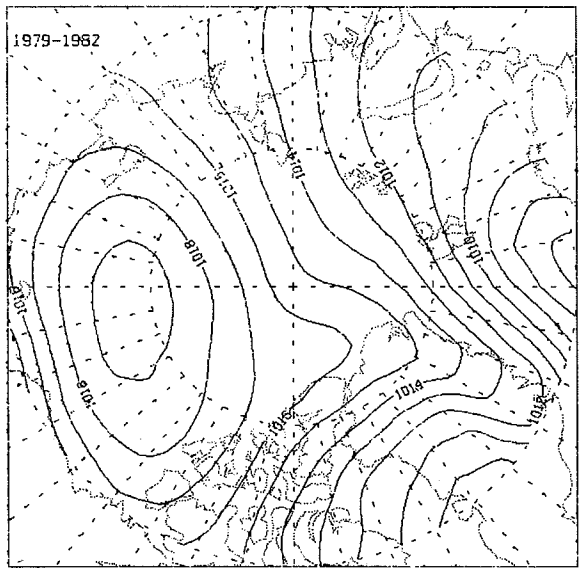
Annual Average Pressure Fields. Fields for 1979, 1980, 1981, and 1982 are given as well as the average field for the four years.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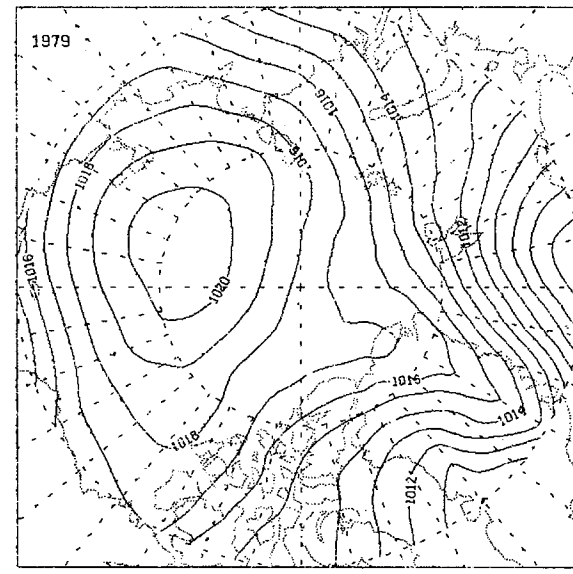
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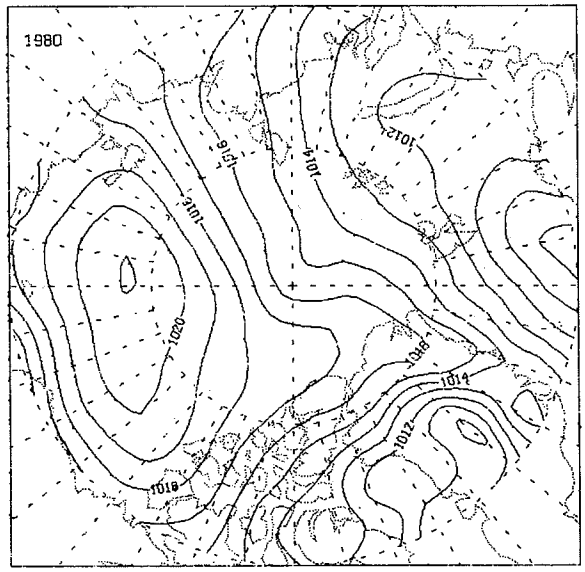
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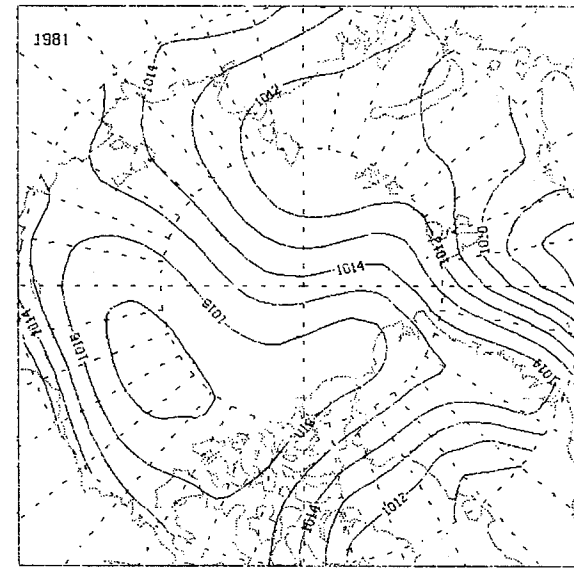
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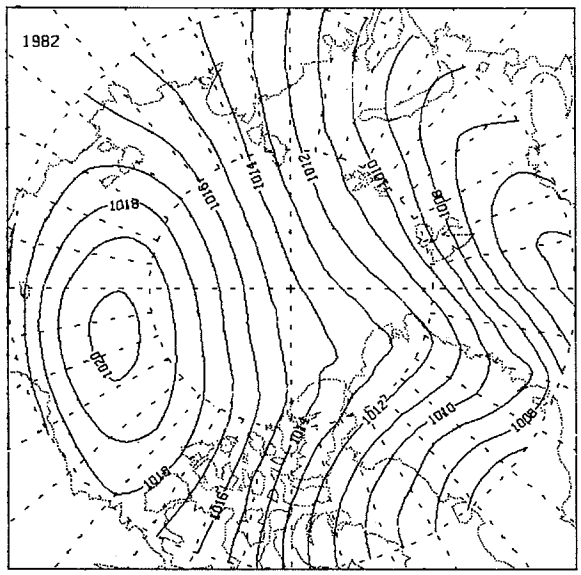
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OBJECTIVE ANALYSIS OF ATMOSPHERIC PRESSURE AND SEA ICE MOTION OVER THE ARCTIC OCEAN

Abstract

Since 1979 a network of drifting sea ice buoys has been maintained in the Arctic Ocean. The buoys measure the surface atmospheric pressure and the movement of the sea ice. An objective analysis procedure of both the pressure field and the motion field for the region north of 70°N is given. This procedure is based on the optimal interpolation ideas described by Gandin /1/.

In the case of the pressure field, the buoy observations are supplemented by the northern hemisphere surface analysis produced by the National Meteorological Center. The variance of the analysis errors for the pressure and ice motion, and for the fields of the spatial derivatives of pressure, are estimated from the theory.

1. INTRODUCTION

Since January 1979 an array of automatic data buoys has been maintained covering much of the Arctic Ocean. The buoys rest on the sea ice cover and drift with the ice. Atmospheric pressure is measured at the buoys. The buoy positions are determined by satellite. From these records of pressure and position we have estimated the fields of surface pressure, surface geostrophic wind, and ice velocity. This paper describes the procedure used to estimate these fields, a procedure based on the optimal interpolation developed by Gandin /1/.

In any use of the fields of pressure or ice motion, it is important to know how large the errors in the estimated fields are likely to be. These error variances are estimated using the optimal interpolation theory. Where the buoy coverage is good (<500 km spacing), the standard deviation of the errors in the estimated pressure is about 1 mb; of the geostrophic winds, 2 m s^{-1}; and of the ice velocity about 0.01 - 0.02 m s^{-1}.

2. OPTIMAL INTERPOLATION.

Consider a random process p, with mean $\overline{p}$ and covariance function

$$E\,[p(\mathbf{x}+\mathbf{s})-\overline{p}]\,[p(\mathbf{x})-\overline{p}] = r(s) \quad , \qquad s = |\mathbf{s}| \quad . \tag{1}$$

It is desired to estimate p at m points $\mathbf{y}_1,\ldots,\mathbf{y}_m$ using data $z_1,\ldots,z_n$ at the n points $\mathbf{x}_1,\ldots,\mathbf{x}_n$. The data could be observations of p, model calculations,

guesses, or some mixture of these. Using more convenient matrix notation, let $P_Y^T = [p(\mathbf{y}_1),\ldots,p(\mathbf{y}_m)]$. Take the linear estimator

$$\hat{P}_Y = \overline{P} + A^T (Z_X - \overline{P}) \tag{2}$$

where the $n\times m$ matrix A consists of weights which are to be chosen to minimize the interpolation errors

$$\text{trace } E(\hat{P}_Y - P_Y)(\hat{P}_Y - P_Y)^T \quad .$$

This is achieved by taking

$$A = M^{-1}S \tag{3}$$

where

$$M = E(Z_X - \overline{P})(Z_X - \overline{P})^T \quad \text{and} \quad S = E(Z_X - \overline{P})(P_Y - \overline{P})^T \tag{4}$$

The $n\times n$ matrix M contains the covariances between the measurements of p at pairs of measurement points $\mathbf{x}_i$ and $\mathbf{x}_j$. The $n\times m$ matrix S contains the covariances between a measurement at $\mathbf{x}_i$ and the true value of p at $\mathbf{y}_j$. By writing the measurement error vector $\Phi_X = Z_X - P_X$, and assuming that the measurement errors are independent of the true field P, we obtain

$$M = E(P_X - \overline{P})(P_X - \overline{P})^T + E\,\Phi_X\Phi_X{}^T \tag{5}$$

$$S = E(P_X - \overline{P})(P_Y - \overline{P})^T$$

Except for the term involving the measurement errors, M and S can be evaluated using the covariance function $r(s)$.

With A defined by eq. (3), the covariance matrix of the interpolation errors is

$$E(\hat{P}_Y - P_Y)(\hat{P}_Y - P_Y)^T = E(P_Y - \overline{P})(P_Y - \overline{P})^T - S^T M^{-1} S \quad . \tag{6}$$

Now suppose that the measurements Z_X are to be used to estimate a space derivative of p. The optimal estimate

$$\widehat{\frac{\partial}{\partial x}P_Y} = A'^T (Z_X - \overline{P})$$

is realized when

$$A' = M^{-1}S' \quad \text{with} \quad S' = E(Z_X - \overline{P})\left(\frac{\partial}{\partial x}P_Y\right)^T = \frac{\partial}{\partial x}S \quad .$$

Therefore $A' = \dfrac{\partial}{\partial x}A$ and $\widehat{\dfrac{\partial}{\partial x}P_Y} = \dfrac{\partial}{\partial x}\hat{P}_Y$. This means that optimal estimates of the gradient of p are simply gradients of the estimated field $\hat{p}$. By evaluating $\hat{p}$ at nearby points, x and $x \pm h$, we obtain the finite difference approximation

$$\frac{\partial}{\partial x}\hat{p}(x,y) \approx \frac{1}{2h}[\hat{p}(x+h,y) - \hat{p}(x-h,y)] \tag{7}$$

The variance of the error in the estimated derivative is

$$E\left[\frac{\partial}{\partial x}\hat{p} - \frac{\partial}{\partial x}p\right]^2 \approx \frac{1}{4h^2}\left[E\,\varepsilon(x+h)^2 - 2E\,\varepsilon(x+h)\varepsilon(x-h) + E\,\varepsilon(x-h)^2\right] \qquad (8)$$

where $\varepsilon(x) = \hat{p}(x) - p(x)$. The covariances appearing on the right hand side are found in the error covariance matrix evaluated in equation (6).

3. OBJECTIVE ANALYSIS OF THE PRESSURE FIELD.

In our first application of this formulation, we associate p with the atmospheric pressure field, adjusted to sea level. The input data $z_1,\ldots,z_k$ represent measurements of p made by several buoys at $\mathbf{x}_1,\ldots,\mathbf{x}_k$. The remaining $z_{k+1},\ldots,z_n$ are pressures taken from the National Meteorological Center's northern hemisphere analysis, at locations $\mathbf{x}_{k+1},\ldots,\mathbf{x}_n$. The NMC analysis is in the form of surface pressures at grid points separated by about 400 kilometers.

The measurement errors at the buoys are assumed to be uncorrelated with each other, having a variance of 1 mb^2.

The NMC analysis errors are somewhat larger, and (see Figure 1) have a significant correlation ρ with distance:

$$\rho(s) = E\,\Phi(\mathbf{x}+\mathbf{s})\,\Phi(\mathbf{x})$$

Thus we have

$$Z = \begin{bmatrix} z_1 \\ \cdot \\ \cdot \\ z_k \\ \hline z_{k+1} \\ \cdot \\ \cdot \\ z_n \end{bmatrix} \quad \begin{matrix} \\ \\ \\ \\ \text{buoy measurements} \\ \\ \\ \\ \text{NMC analysis} \end{matrix}$$

and the terms of M in equation (5) are

$$E(P_X - \overline{P})(P_X - \overline{P})^T = r(|\,\mathbf{x}_i - \mathbf{x}_j\,|)$$

and

$$E\,\Phi_X\Phi_X^T = \begin{bmatrix} \delta_{ij} & 0 \\ 0 & \rho(|\,\mathbf{x}_i - \mathbf{x}_j\,|) \end{bmatrix} \quad \begin{matrix} i,j \leq k \ \text{(buoy errors)} \\ \\ i,j > k \ \text{(NMC errors)} \end{matrix}$$

The function $r(s)$ has been estimated by correlating time series of pressure at locations separated by a distance s, for several values of s, see /4/. An analytical form approximating the observations is

$$r(s) = q^2 e^{-s^2/L^2}, \qquad q = 10 \text{ mb}, \qquad L = 1300 \text{ km},$$

The function $\rho(s)$, expressing the correlation between errors in the NMC analysis as points separated by distance s, has been estimated by interpolating the NMC field to the buoy locations and examining the differences

$$\Delta(\mathbf{x}) = Z_{\text{NMC}}(\mathbf{x}) - Z_{\text{buoy}}(\mathbf{x}) \quad .$$

By considering buoys at various separations s, we constructed

$$E\,\Delta(\mathbf{x}+\mathbf{s})\,\Delta(\mathbf{x})$$

which is plotted in Figure 1. The errors in the buoy measurements contribute only slightly to this since their variance is comparatively small. Thus we take as an approximation to $\rho(s)$

$$\rho(s) = \sigma^2 e^{-s^2/\lambda^2}, \qquad \sigma = 3 \text{ mb}, \qquad \lambda = 500 \text{ km} \quad .$$

Since we want to estimate not only p at (x,y), but also its first and second space derivatives there, we define a 3×3 local mesh $(x-\delta, x, x+\delta) \times (y-\delta, y, y+\delta)$ with $\delta = 10$ km centered at (x,y). Equations 2-6 are followed to estimate p at these $m = 9$ interpolation points and to get the 9×9 covariance matrix for the errors. Appropriate differences of the estimates of p at these 9 points are taken to obtain estimates of the spatial derivatives of the field. The variances of the errors in the derivatives are appropriate combinations of elements of the 9×9 error covariance matrix, as in equation (8).

The estimated pressure gradient is converted to the geostrophic wind using

$$\hat{u}_g = -(\rho f)^{-1}\frac{\partial \hat{p}}{\partial y} \quad \text{and} \quad \hat{v}_g = (\rho f)^{-1}\frac{\partial \hat{p}}{\partial x} \quad \text{where}$$

$\rho \approx 1.3 \text{kg m}^{-3}$ is the air density and $f = 2\omega \sin(\text{latitude}) \approx 1.4 \times 10^{-4} \text{s}^{-1}$ is the Coriolis parameter.

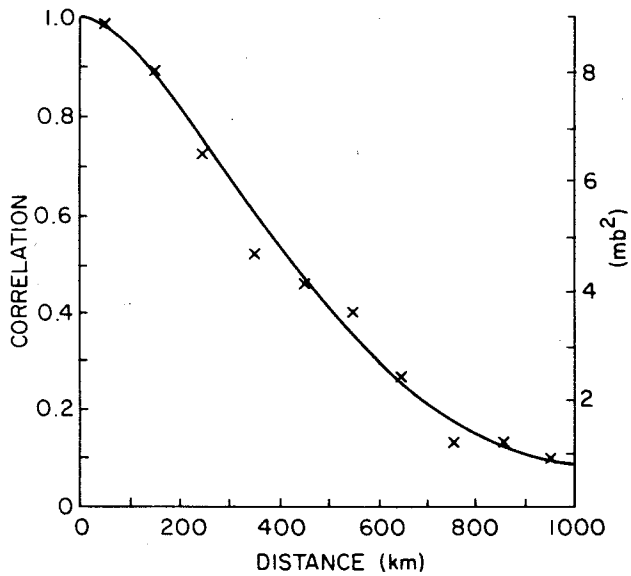

Figure 1. The correlation function for the difference between the pressure measured at the buoys and the NMC estimate of pressure at the buoy locations. Each plotted point is the average of several hundred values for pairs of buoys with separations in the ranges 0-100 km, 100-200 km, etc. Data are from 1981. Since the measurement errors at the buoys are small, this curve is approximately the covariance function for the NMC errors.

Estimates of the space derivatives of the geostrophic wind -- its vorticity, $\partial u_g/\partial y - \partial v_g/\partial x$, for instance -- involve estimated second derivatives of pressure.

4. ERROR ANALYSIS OF THE PRESSURE FIELD.

The pressure field is analyzed on a grid of points north of 70°N latitude. Every 12 hours and at each grid point, estimates are made of pressure, the first and second derivatives of pressure, and the variance of the estimation error of these quantities. While the NMC data is on a fixed grid, the buoys move about with the ice pack. Random instrument failures and deployment of new buoys also change in the geometry of the buoy array. The results presented here are for a particular date (15 July 1981).

In principle, one could use all of the buoy measurements and the entire NMC analysis and let the analysis procedure determine the optimal estimate. However, computational considerations limit the total number of observations to about 20. Figure 2 is a guide to the best strategy for mixing pressure measurements from buoys and pressure analysis from NMC. Using the 15 July data, the geostrophic wind error variance, $\mathrm{var}(G) = \mathrm{var}(u_g) + \mathrm{var}(v_g)$, was calculated at 90°N as a function of number of pressure measurements and number of NMC analysis points. It is seen that using more than 10 buoy measurements (the longest distance from the grid point to a buoy was 890 km) does not significantly reduce the error variance. When as few as five buoy measurements were used, the NMC analysis significantly reduced the error variance. Our analysis strategy is to search the buoy data to find up to 12 buoys within 1000 km of the grid point (x,y) and we search

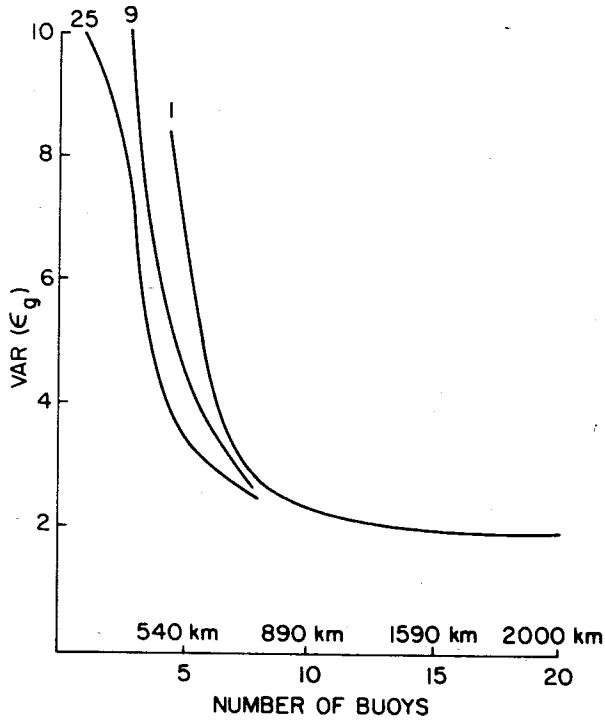

Figure 2. The variance of the estimation errors in the geostrophic wind as a function of the number of NMC points and the number of buoys used in the intepolation at each grid point. The ordinate is the sum of the error variances for the two wind components. The 3 curves are for different numbers of NMC points.

the NMC grid to find up to 10 points within 600 km of (x,y).

This strategy of choosing the closest n buoy and NMC data can introduce discontinuities in the interpolation field. Consider a region, one portion of which used the data set D_1 and the other portion used data set D_2 (Figure 3). Along the interface there can be a discontinuity of the interpolated pressure, as indicated by the isobar shown in Figure 3. The magnitude of this discontinuity is within the expected interpolation errors given by equation (6), and we have no way of determining the better value. The discontinuity does not give rise to unbounded pressure gradients because the difference equation (7) uses the same data set for $\hat{p}(x+h,y)$ and $\hat{p}(x-h,y)$. In any use of the data requiring derivatives of pressures it is better to use the optimal estimates of the derivatives [equation (7)] than to approximate the derivatives using finite differences of the interpolated pressure.

Figure 4 shows fields of pressure error variance and geostrophic wind error variance. Within the buoy array, the pressure error variance is less than 1 mb^2, roughly the measurement error variance. Away from the buoy array the variance is 5–6 mb^2. This is smaller than the variance of the errors in the NMC analysis (10 mb^2). It suggests that, from the point of view of minimizing the pressure errors, the NMC field can be improved slightly by judicious smoothing.

Figure 4b shows the geostrophic wind error variance to be less than 4 m^2s^{-2} within the buoy array. These errors may be compared to the variance of the geostrophic wind itself: 64 m^2s^{-2}.

Estimates of the gradient of the geostrophic wind and the variance of the estimation error are also made at each grid point. The vorticity of the geostrophic wind has a theoretical variance of about $4 \times 10^{-10}s^{-2}$ (/4/). Estimates of vorticity error variance are about $1\times10^{-10}s^{-2}$ within the buoy array. This allows the main features of the vorticity field to be estimated with confidence.

Using equation (6) we can examine the spatial correlation of the estimation errors. Shown in Figure 5 are the autocorrelation functions for pressure

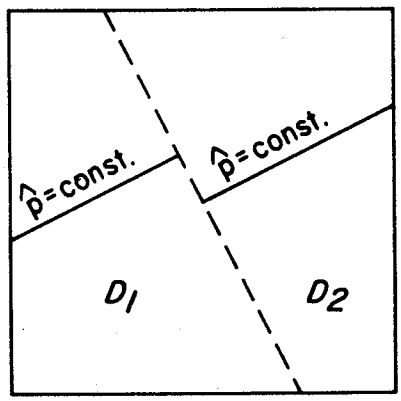

Figure 3. The dashed line partitions the region into places where the data set D_1 is used and the places where the data set D_2 is used. The contour of $\hat{p}$ = constant is discontinuous at the interface because of the different data sets used.

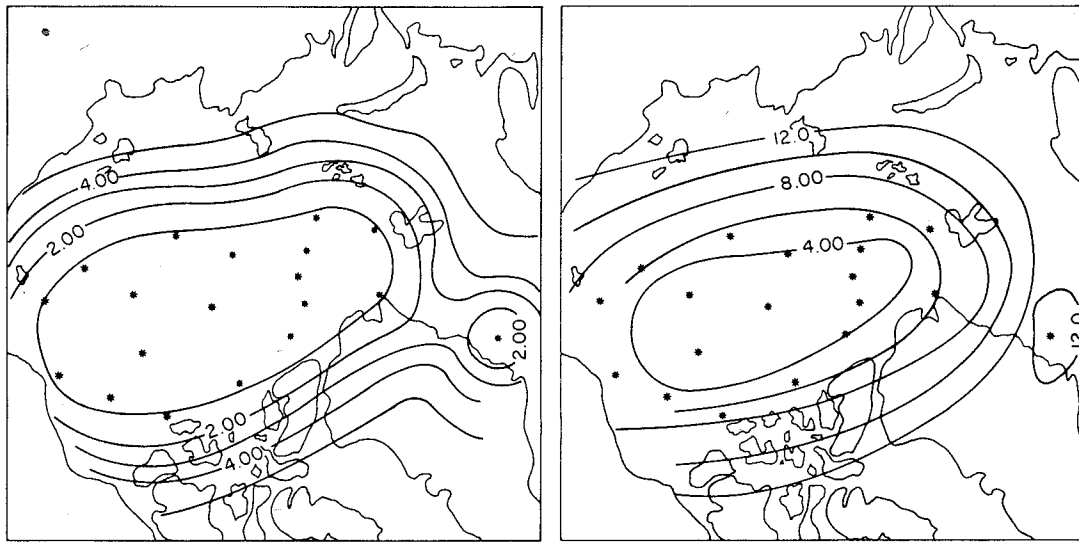

Figure 4. a) Field of pressure error variance. b) Field of geostrophic wind error variance, given by the sum of the error variances for the two wind components. The buoy positions are indicated by asterisks.

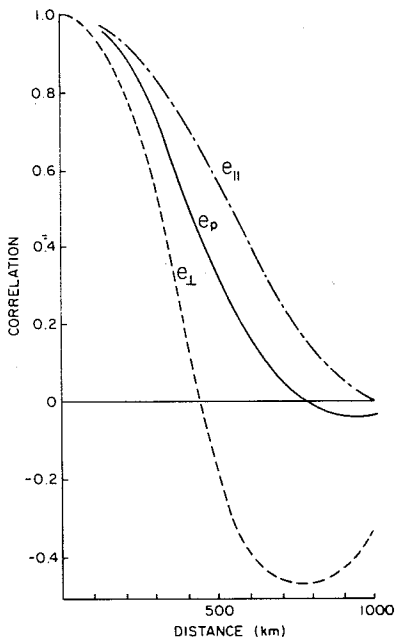

Figure 5. The space correlation functions for pressure errors and for errors in the geostrophic wind. The wind errors are resolved into components parallel and perpendicular to the separation vector. The variances of the errors are about 1 mb^2 for pressure errors and 4 $mb^2\ s^{-2}$ for geostrophic wind errors.

error and geostrophic wind error. For isotropic fields two correlation functions are sufficient to characterize the velocity. If we consider two points $\mathbf{x}_a$ and $\mathbf{x}_b$ then the velocities at these points can be resolved into components parallel and perpendicular to this line segment. The function $e_{||}(s)$ is the autocorrelation of the velocity errors in the direction connecting the two points and the function $e_\perp(s)$ is for the perpendicular direction. These curves are consequences of the spatial structure of the true geostrophic wind field and of the measurement density. The measurement accuracy

plays a smaller role. Reference must be made to these curves when using the wind estimates. For example, if these winds are to be used to drive a model of sea ice motion, a proper representation of the wind errors is needed to determine the potential accuracy of the sea ice model. Judging from Figure 5, it would probably be a bad approximation, in a model attempting to resolve sea ice motions on scales of 100 km, to treat the wind errors as white noise.

5. ANALYSIS OF ICE VELOCITY.

The same general method is used to analyze the field of ice velocity. The details are different because the ice velocity is a vector. Instead of having a scalar covariance which is a function only of separation distance, the covariance between the velocity vector at two points is a 2×2 matrix which depends, even for an isotropic, homogeneous field, on separation distance and direction. To be precise, let u and v be components of the velocity vector in the x and y directions. Then define the two correlation functions

$$B_{||}(s) = E\,u(s,0)u(0,0) \quad \text{and} \quad B_{\perp}(s) = E\,u(0,s)u(0,0) \ .$$

Then for an isotropic homogeneous field it follows that

$$E\,u(x_1,y_1)u(x_2,y_2) = \frac{\Delta x^2}{s^2}B_{||}(s) + \frac{\Delta y^2}{s^2}B_{\perp}(s),$$

$$E\,u(x_1,y_1)v(x_2,y_2) = E\,v(x_1,y_1)u(x_2,y_2) = \frac{\Delta x\,\Delta y}{s^2}[B_{||}(s) - B_{\perp}(s)], \quad \text{and} \quad \textbf{(9)}$$

$$E\,v(x_1,y_1)v(x_2,y_2) = \frac{\Delta y^2}{s^2}B_{||}(s) + \frac{\Delta x^2}{s^2}B_{\perp}(s), \quad \text{where}$$

$$s^2 = \Delta x^2 + \Delta y^2, \ \Delta x = x_2 - x_1, \ \Delta y = y_2 - y_1.$$

The optimal interpolation formalism can be used by defining $\hat{P}^T = (\hat{u}_1,\hat{v}_1,\ldots,\hat{u}_m,\hat{v}_m)$ and similarly for the other vectors. Thus $\hat{P}$ is the $(2m \times 1)$ vector of final estimates of the velocity components at the m interpolation points, S is the $(2n \times 2m)$ matrix of covariances between components of velocity at the interpolation points and at the observation points, based on eq. 9, and so on.

In our application of this interpolation method to the velocity field of sea ice, we have used as measurements the estimates of velocity components at the drifting buoys. These are deduced by analyzing the time series of locations for each buoy. The locations are found by standard satellite positioning techniques using the Doppler shift of the signal transmitted by the buoy and received by the rapidly moving satellite. The locations are smoothed in time to suppress measurement noise and aliasing from high frequency motions. The estimated velocities are approximately equal to the displacement of the buoys during 1 day. The velocity measurement errors are about 0.002 m s^{-1}, (200 m d^{-1}).

A fair amount is known about the spatial covariance structure of the velocity field, which allows us to specify the matrices M and S. Estimates of the functions $B_{||}(s)$ and $B_{\perp}(s)$, needed in M and S, are reproduced in Figure 6 from /3/.

In regions where the density of buoys is high, the velocity estimation errors are in the neighborhood of 0.01 to 0.02 m s^{-1}, see Figure 7.

As with the surface pressure field, a local mesh is defined around each interpolation point. Estimates of the space derivatives of velocity components are made by differencing the interpolated values at these mesh points.

Velocity gradients have an rms value of about $1 \times 10^{-7} s^{-1}$ (/2/). The errors in estimating these gradients within the buoy array are about $0.5 \times 10^{-7} s^{-1}$.

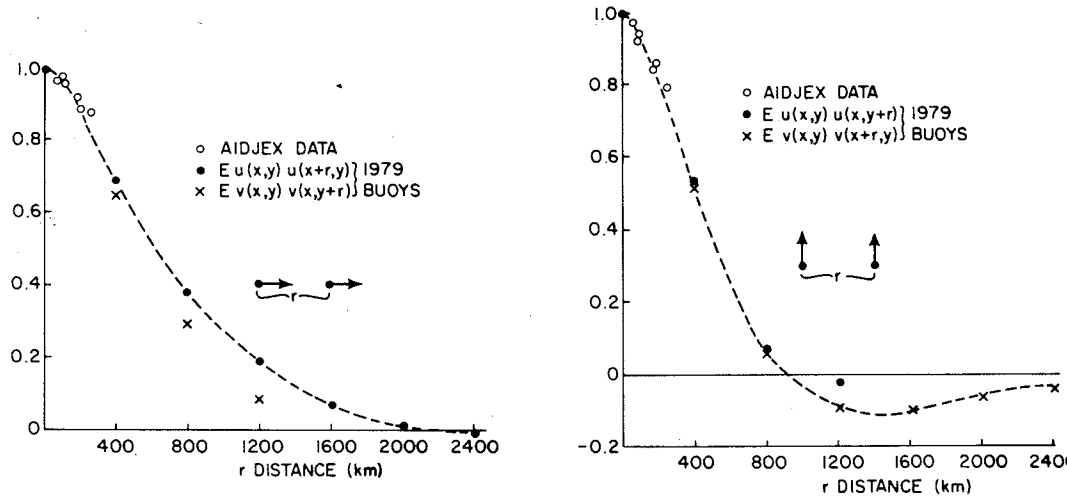

Figure 6. Observed correlations between ice velocity components as a function of distance.

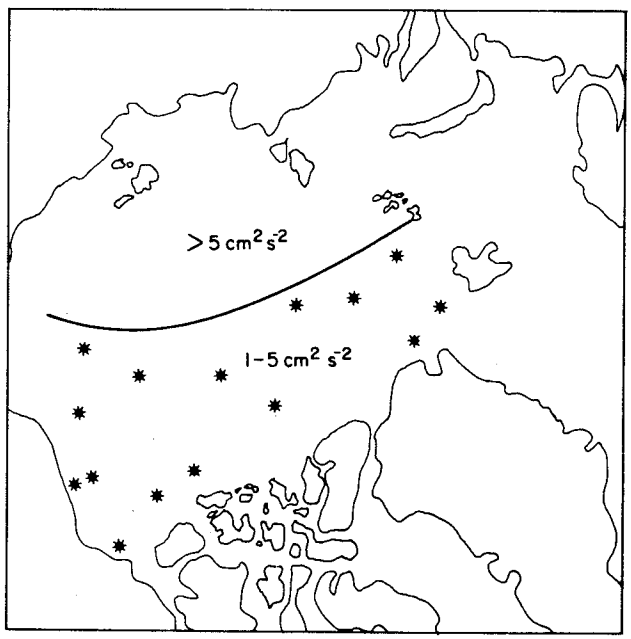

Figure 7. The variance of the interpolation error for the ice velocity for the configuration of buoys on 1 June 1982, denoted by asterisks. The variance shown is the sum of the variances of the interpolation errors in the u and v components.

6. DISCUSSION.

As mentioned above, models of sea ice motion can be driven with geostrophic winds. This is because of the close connection in the arctic between the geostrophic wind and the surface wind. In one such model (/2/), we found that the ice speed in the summer was about $\alpha = 0.01$ of the geostrophic wind rotated about 18° to the right. The ice motion unexplained by this rule of thumb had a variance of about 0.0014 m^2s^{-2} (about 25% of the ice motion variance). This number is an upper bound on the sum of the variances of the ice velocity errors and the geostrophic wind errors

$$\text{var}\,\varepsilon_{ice} + \alpha^2 \text{var}\,\varepsilon_g < 0.0014\ m^2s^{-2}$$

The estimates in this paper of var $\varepsilon_{ice} \approx 0.0001$ to $0.0005\ m^2s^{-2}$ and var $\varepsilon_g \approx 4\ m^2s^{-2}$ were based only on the known statistical structure of the fields of pressure and of ice motion, and on the measurement procedure. They satisfy the above inequality. They suggest that as much as half of the unexplained variance may be attributable to errors in the estimated fields.

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