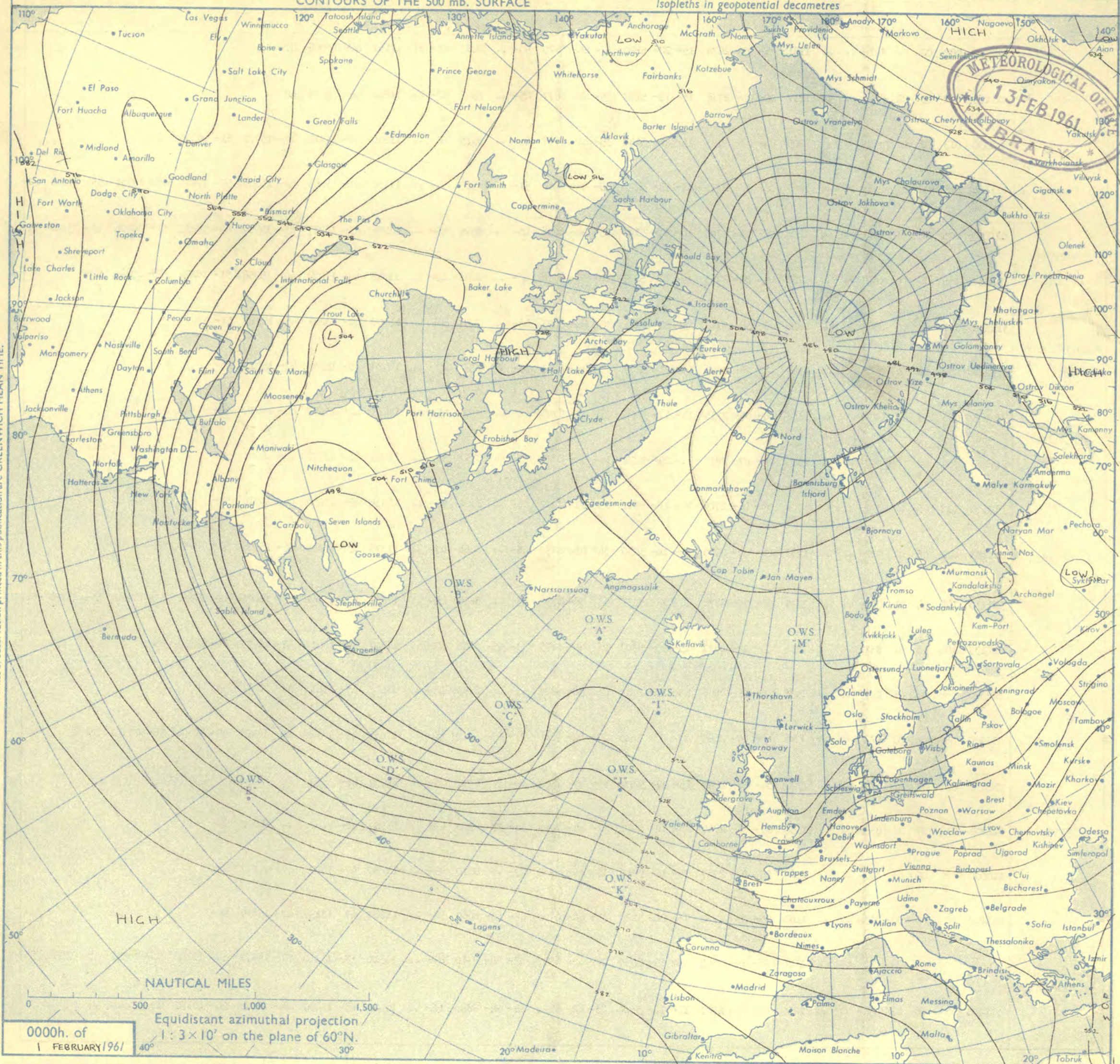


CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



NAUTICAL MILES

0000h. of
1 FEBRUARY 1961Equidistant azimuthal projection
1 : 3 × 10⁷ on the plane of 60°N.

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C			
LERWICK 03005	312330	082	02	01	121-	++	++	1181	04-	05-	2678	15-	22-	5120	37-	46-	6620	50-	++	8480	51-	++	11151	46-	13065	47-														
	011130	082	03	02	087-	++	++	1217	04-	05-	2716	15-	19-	5157	35-	42-	6677	45-	++	8562	52-	++	11244	44-	13184	42-														
STORNOWAY 03026	312330	013	02	01	095-	++	++	1205	04-	07-	2703	15-	20-	5148	35-	41-	6657	49-	++	8515	50-	++	11200	46-	13112	47-	15777	51-	18096	52-										
	011148	013	06	04	032-	++	++	1267	06-	08-	2755	18-	23-	5170	39-	46-	6664	51-	++	8509	54-	++	11130	51-	13005	52-	15603	57-	17835	60-	19931	59-	23130	61-						
SHANWELL 03170	010050	005	02	01-	098-	++	++	1203	04-	08-	2705	14-	17-	5166	33-	40-	6696	45-	++	8576	49-	++	11286	43-	13217	45-	15907	49-	18233	51-	20406	53-	23708	51-						
	011130	005	06	00	040-	++	++	1266	04-	09-	2765	15-	18-	5215	34-	37-	6734	48-	++	8640	45-	++	11345	44-	13283	44-	15958	51-	18272	52-	20440	52-								
ALDERGROVE 03917	312330	077	02	00	056-	++	++	1246	05-	08-	2740	15-	22-	5183	35-	44-	6693	48-	++	8588	46-	++	11308	42-	13246	45-	15912	51-												
	011227	077	02	00	006-	++	++	1299	04-	06-	2802	13-	21-	5267	33-	48-	6833	37-	46-	8763	49-	++	11424	45-	13336	47-	15979	55-												
AUGHTON 03322	312345	056	05	02	077-	++	++	1232	04-	06-	2735	14-	17-	5206	31-	33-	6746	44-	++	8664	45-	++	11413	42-	13352	44-	16034	49-												
	011130	056	06	03	008	++	++	1313	05-	07-	2819	14-	21-	5272	35-	42-	6827	37-	44-	8752	50-	++	11449	44-	13372	48-	16003	55-												
HEMSBY 03496	312330	012	05	01	098-	++	++	1208	05-	06-	2706	14-	18-	5171	33-	41-	6702	43-	++	8624	46-	++	11334	45-	13254	46-	15918	53-												
	011133	012	05	02	019-	++	++	1283	06-	07-	2780	15-	18-	5230	34-	43-	6750	46-	++	8664	47-	++	11379	43-	13309	46-	15966	53-	18259	55-										
CRAWLEY 03774	312330	144	04	01	036-	++	++	1271	03-	09-	2778	14-	18-	5239	33-	38-	6773	43-	++	8699	44-	++	11433	43-	13362	45-	16025	52-	18324	53-	20482	55-	23756	51-						
	011138	144	04	02	032	++	++	1334	05-	08-	2831	15-	23-	5303	28-	40-	6895	33-	45-	8856	47-	++	11507	50-	13411	47-	16077	53-	18354	55-										
CAMBORNE 03808	312340	088	05	01	027	++	++	1335	04-	05-	2836	15-	19-	5280	35-	38-	6805	41-	++	8753	43-	++	11493	45-	13413	48-	16044	53-												
	011130	088	08	02	072	++	++	1385	05-	07-	2895	11-	25-	5436	21-	24-	7046	33-	40-	9010	47-	++	11635	49-	13526	50-	16127	56-	18392	56-	20511	59-								
VALENTIA 03953	312330	014	07	02	012	++	++	1324	04-	07-	2820	15-	27-	5270	35-	46-	6800	39-	++	8750	43-	++	11450	46-																
	011200	014	07	05	035	08	06	1350	03-	06-	2864	08-	10-	5410	22-	24-	7010	34-	37-	8960	49-	++	11580	48-	++++	++	16090	55-												
Ocean Weather Station 'I' 59°00'N 19°00'W	010000		06	03	037-	++	++	1268	05-	07-	2767	15-	18-	5210	35-	39-	6730	47-	++	8610	49-	++	11280	47-	13190	47-														
	011200		06	02-	023-	++	++	1283	05-	09-	2779	16-	20-	5220	35-	44-	6750	40-	50-	8660	54-	++	11280	47-	13190	47-	15830	54-												
Ocean Weather Station 'J' 52°30'N 20°00'W	010001		06	04	057	05	02	1340	06-	10-	2845	15-	29-	5350	22-	42-	6950	32-	50-	8910	47-	++	11510	53-	13380	51-	15970	58-	18210	58-	20330	58-	23550	55-						
	011200		08	07	055-	++	++	1250	01-	03-	2781	11-	12-	5300	23-	42-	6890	34-	54-	8840	46-	++	11540	45-	13460	48-	16070	54-	18370	52-	20540	++								

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 38460	985	975	919	970 04 03 907 01- 03- 750 ++ 14- 715 ++ 22- 650 ++ 24- 590 25- 31- 520 ++ 44- 476 40- 48- 377 53- 346 54- 267 48- 192 46- 103 49-	346	07560	54-
	25 784++	989	979	920	966 ++ 01 844 ++ 06- 782 ++ 13- 734 12- 16- 621 ++ 30- 536 ++ 35- 516 34- 39- 480 37- 46- 453 40- 49- 413 44- 346 50- 322 52- 216 45- 151 42- 116 51-	322 116	08100 ++++	52- 51-
STORNOWAY 03026	02 19500	988	987	912	965 04 01 948 ++ 02- 878 ++ 05- 667 ++ 24- 597 ++ 30- 555 ++ 36- 517 ++ 38- 464 40- 46- 353 56- 267 47- 217 45- 131 48- 098 51- 080 51- 057 56-	353	07470	56-
	15 59407	996	995	938	976 03 01 911 02- 03- 808 ++ 10- 775 11- 15- 728 16- 20- 636 23- 33- 491 40- 47- 384 53- 351 56- 164 50- 081 61- 052 61- 048 58- 030 61- Temperatures considered too cold	351 081	07500 16940	56- 61-
SHANWELL 03170	02 656++	988	987	902	945 03 02- 719 13- 15- 689 14- 18- 662 ++ 23- 570 26- 31- 440 40- 47- 356 52- 336 54- 311 49- 272 48- 240 43- 188 43- 100 49- 059 53- 035 53- 030 51-	336	07820	54-
	02 31530	995	995	912	973 03 02- 802 07- 11- 704 ++ 18- 633 20- 24- 588 25- 27- 483 36- 40- 455 40- 44- 393 49- 373 50- 279 45- 244 45- 215 46- 158 42- 120 49- 100 51- 068 52- 061 55- 049 51- 043 55- 040 52-	373 120	07200 14764	50- 49-
ALDERGROVE 03917	01 30932	993	984	920	972 03 00 930 ++ 05- 860 ++ 07- 820 07- 12- 799 ++ 13- 780 ++ 17- 755 ++ 19- 735 13- 19- 730 ++ 21- 705 ++ 20- 682 ++ 28- 575 26- 38- 480 38- 47- 415 47- 385 50- 338 49- 323 45- 253 46- 212 41- 090 52-	385	06940	50-
	10 662++	999	990	904	985 ++ 02- 960 04 00 840 05- 07- 780 ++ 13- 758 ++ 14- 692 14- 22- 663 ++ 28- 485 35- 50- 464 30- 46- 400 ++ 46- 330 47- 313 50- 302 49- 269 53- 256 53- 246 47- 196 44- 166 48- 161 46- 092 57-	269 166	09470 12670	53- 48-
AUGHTON 03322	27 825++	991	984	902	975 05 03 798 07- 08- 773 ++ 12- 758 ++ 12- 724 12- 17- 678 ++ 17- 608 21- 24- 574 24- 26- 427 40- 44- 377 48- 233 40- 087 51-	377 131	07140 14250	48- 47-
	03 685++	001	994	919	977 04 00 842 05- 07- 794 06- 12- 778 ++ 13- 502 35- 42- 473 36- 43- 453 33- 40- 430 33- 40- 379 40- 46- 344 46- 332 46- 304 51- 270 47- 173 44- 144 50- 098 55- 095 53-	304 (098)	08640 16140	51- 55-
HEMSBY 03496	02 655++	988	986	917	801 08- 09- 736 ++ 13- 691 ++ 19- 619 20- 25- 545 ++ 37- 447 40- 48- 362 45- 131 46- 102 53- 080 52-	362 102	07380 15810	45- 53-
	03 755++	998	996	933	984 03 01- 961 01 02- 896 02- 05- 849 06- 07- 824 06- 09- 727 14- 18- 690 16- 19- 535 30- 39- 450 40- 49- 408 46- 267 46- 180 43- 099 54- 095 52- 058 55-	408 099	06620 16020	46- 54-
CRAWLEY 03774	02 754++	996	978	908	881 ++ 04- 860 ++ 08- 651 18- 22- 455 39- 45- 388 44- 279 45- 249 41- 143 46- 103 52- 051 55- 045 58- 040 54- 030 51-	388 103	06970 15830	44- 52-
	27 53500	004	986	922	973 03 00 954 ++ 00 921 ++ 03- 870 ++ 05- 755 ++ 15- 722 ++ 20- 616 22- 31- 555 25- 36- 535 25- 37- 482 29- 41- 453 27- 39- 359 ++ 50- 327 43- 275 51- 197 50- 186 46- 109 50- 091 57- 083 54- 055 56-	275 091	09440 16690	51- 57-
CAMBORNE 03808	27 2946+	003	992	909	990 06 01 911 ++ 02- 893 ++ 04- 851 ++ 05- 824 06- 09- 766 ++ 15- 751 10- 15- 725 ++ 16- 685 ++ 21- 563 ++ 31- 463 40- 43- 447 42- 439 41- 273 42- 166 45- 121 54- 111 52- 091 54-	447 121	06040 14800	42- 54-
	02 3557+	009	998	899	975 ++ 02 898 ++ 03- 851 05- 07- 830 ++ 07- 739 09- 23- 637 15- 34- 604 14- 33- 582 15- 22- 568 ++ 21- 546 ++ 20- 508 20- 23- 454 ++ 29- 421 30- 36- 351 40- 47- 255 55- 243 55- 231 52- 211 54- 202 49- 163 48- 118 56- 085 57- 073 55- 060 59- 050 59-	255 118 (060)	10030 15050 19370	55- 56- 59-
VALENTIA 03953	03 635++	020	000	900	952 05 01- 921 02 03- 763 12- 16- 746 12- 17- 553 28- 40- 474 38- 48- 451 39- 50- 424 41- 396 39- 322 43- 276 43- 243 48- 203 46- 152 50-	424 243	06500 10200	41- 48-
	02 885++	004	003	890	003 07 05 993 08 06 845 03- 07- 834 02- 06- 750 10- 16- 707 08- 11- 638 12- 13- 544 17- 18- 471 26- 28- 370 38- 41- 319 48- 297 50- 276 53- 245 56- 230 51- 217 52- 194 47- 158 48- 112 54- 108 53- 092 58- 072 59-	245 092	10300 16600	56- 58-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 785++	996	996	920	951 02 00 752 ++ 12- 723 ++ 16- 678 17- 20- 600 ++ 31- 468 40- 45- 343 54- 315 50- 266 47- 143 48-	343	10700	54-
	02 38431	997	997	916	997 06 02- 970 04 03- 893 ++ 03- 848 ++ 09- 810 07- 15- 768 10- 14- 724 ++ 17- 628 22- 29- 574 28- 35- 508 34- 43- 426 40- 50- 411 39- 284 56- 238 53- 216 48- 164 45- 135 51- 116 52- 080 55-	284 135	09000 13900	56- 51-
Ocean Weather Station 'J' 52°30'N 20°00'W	48500	006	006	940	970 02 02- 900 04- 05- 800 09- 17- 775 11- 19- 730 12- 25- 648 19- 35- 610 21- 37- 584 18- 36- 560 18- 39- 533 19- 39- 460 28- 47- 420 30- 49- 348 40- 55- 310 46- 255 56- 243 55- 212 57- 161 50- 126 56- 036 58-	255 126	10000 14500	56- 56-
	25 38500	992	992	880	992 08 07 970 06 03 880 00 02- 675 13- 15- 625 17- 27- 580 17- 29- 364 40- 58- 324 46- 283 48- 180 43- 124 54- 060 53-	283 124	09300 14800	48- 54-

STATION*	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	312330	T	340 06	+++ ++	340 02	320 03	310 08	300 10	270 10	250 17	260 10	290 09	280 18	P280 33	290 44	290 41					
	010530	P	300 07	+++ ++	320 12	310 11	290 09	290 14	270 07	250 09	060 06	330 10	300 20	300 30	300 36	290 42	290 33				
	011130	T	340 17	+++ ++	020 23	020 21	360 13	360 11	350 11	010 10	030 14	360 12	300 19	300 33	300 37	P280 34	280 36	270 35			
	011740	P	360 17	+++ ++	020 16	010 14	010 12	350 10	340 09	340 58	350 11	320 18	300 31	290 39	290 36	290 37	280 40	270 23			
STORNOWAY 03026	312330	T	000 00	+++ ++	310 06	320 06	320 09	320 11	310 15	300 17	290 17	300 22	290 29	280 33	290 46	280 36	280 34				
	010530	P	000 00	+++ ++	330 12	320 13	320 14	320 18	310 19	310 22	310 21	300 34	300 42	300 41	290 42	300 36	270 33				
	011148	T	320 07	+++ ++	360 04	350 07	320 13	300 19	300 25	310 23	340 06	300 39	290 40	290 49	290 52	290 45	280 38	270 37			
	011740	P	010 10	+++ ++	360 05	340 05	300 12	300 19	290 21	290 12	300 37	300 44	290 47	290 52	290 45	290 44	280 32				
SHANWELL 03170	312330	P	280 10	+++ ++	340 12	330 16	310 17	330 20	340 20	300 10	280 18	290 24	280 37	280 38	290 43	290 38	280 32	280 29			
	010530	P	280 07	+++ ++	330 14	330 16	320 19	300 21	320 22	310 26	300 26	300 32	300 42	310 44	300 44	310 41	280 30				
	011130	T	280 08	+++ ++	300 17	300 17	300 19	300 21	300 19	300 30	300 32	300 53	300 46	300 54	300 47	290 34	290 30	270 24			
	011730	P	280 04	+++ ++	340 07	310 10	300 14	300 17	290 23	290 26	300 63	300 59	290 57	300 55	300 48						
ALDERGROVE 03917	312330	T	250 12	+++ ++	300 27	300 26	300 24	300 25	310 23	320 14	250 20	300 35	290 41	290 49	290 41	280 46					
	010530	P	220 11	+++ ++	300 24	300 21	300 19	300 11	310 17	300 17	300 55	300 84	300 67	300 55	300 47	290 38	280 24				
	011227	T	220 13	+++ ++	280 22	280 22	290 23	290 27	300 25	300 29	290 81	290 90	290 79	300 66	300 63	290 42					
	011730	P	190 09	+++ ++	270 14	270 10	270 11	270 12	280 20	280 47	270 52	280 64	290 60	280 62							
AUGHTON 03322	312345	T	300 28	+++ ++	310 47	310 49	310 47	320 42	330 42	330 34	310 36	290 39	280 44	290 42	290 41	290 31					
	010530	P	270 16	+++ ++	290 28	310 29	300 30	310 25	310 22	310 20	290 37	300 66	300 59	300 50	290 49	310 31	290 30				
	011130	T	270 17	+++ ++	280 25	280 26	280 26	280 23	270 27	290 33	300 110	300 95	310 75	300 60	P310 48	320 44					
	011730	P	190 07	+++ ++	260 19	270 22	290 22	290 25	290 28	290 65	290 72	290 77	290 71	300 72	310 56	300 37	290 29	280 18			
HEMSBY 03496	312330	T	230 20	+++ ++	240 48	250 44	260 37	260 33	230 36	230 43	230 55	250 44	270 43	270 41	280 39	270 38					
	010530	P	270 25	+++ ++	310 51	310 52	310 50	310 46	310 50	310 43	300 42	290 48	290 40	290 43	290 50	310 36	280 21				
	011133	T	280 18	+++ ++	300 37	310 38	300 37	300 35	310 32	310 35	300 37	310 76	310 65	300 54	300 47	290 34	300 27				
	011730	P	260 12	+++ ++	290 24	280 27	270 34	270 32	280 30	290 41	300 83	300 81	310 69	300 56	300 53	310 42	310 16				
CRAWLEY 03774	312355	P	260 15	+++ ++	280 52	290 60	290 53	290 52	270 51	280 43	270 44	270 51	290 48	270 48	290 43	280 31	290 21	010 07			
	010530	P	270 15	+++ ++	290 42	300 44	300 46	300 43	290 36	290 31	310 44	310 67	310 62	300 50	300 47	300 34	300 19	330 08			
	011138	T	290 09	+++ ++	300 27	310 33	300 33	300 36	300 38	310 63	310 114	310 117	310 88	310 78	300 63	310 32					
	011730	P	250 10	+++ ++	270 27	280 26	280 24	280 31	290 55	300 81	300 88	300 99	300 83	310 70	310 54						
CAMBORNE 03808	312340	T	270 20	+++ ++	280 34	290 33	290 37	290 36	290 47	280 45	290 61	300 84	300 77	300 60	310 49						
	010530	P	280 23	+++ ++	290 38	290 37	300 37	300 43	300 39	310 98	310 137	310 163	310 121	320 74							
	011130	T	250 15	+++ ++	260 22	280 27	290 32	290 34	300 51	300 80	300 91	300 127	300 131	300 79	300 63						
	011730	P	150 07	+++ ++	210 34	240 47	270 43	290 61	280 70	280 82	290 110	290 133	300 119	300 76	300 58	310 39					
VALENTIA 03953	312330	T	300 20	+++ ++	+++ ++	280 39	+++ ++	290 41	+++ ++	310 39	300 68										
	011200	T	250 09	250 10	+++ ++	230 19	240 21	260 37	+++ ++	260 74	280 109	270 109	+++ ++	270 80							
Ocean Weather Station 'I' 59°00'N 19°00'W	010001	T	060 20	+++ ++	040 18	030 15	360 12	360 13	330 14	330 18	320 16	280 48	280 45	280 56							
	010600	P	045 10	+++ ++	060 09	030 06	360 05	270 10	290 09	290 25	290 45	290 71	280 51	280 50	270 50	280 48					
	011200	T	080 14	+++ ++	090 12	100 11	230 03	290 02	+++ ++	+++ ++	+++ ++	270 51	260 44	260 48	260 56	260 35					
	011800	P	090 20	+++ ++	100 24	100 22	110 19	110 09	210 04	250 07	250 20	250 15	250 24	240 42	260 47	240 41	280 40	250 32			
Ocean Weather Station 'J' 52°30'N 20°00'W	010001	T	280 22	280 23	+++ ++	300 25	+++ ++	290 12	+++ ++	280 80	280 99										
	010600									NO WINDS REPORTED											
	011200									NO WINDS REPORTED											
	011700	T	250 44	+++ ++	+++ ++	250 53	+++ ++	250 52	250 69	250 102	250 112	250 120									
LARKHILL 03743	010730	P	240 12	+++ ++	280 43	280 48	290 41	290 47	290 49	300 62	310 105	310 136	310 81	310 42	300 43	310 33					
	011115	P	270 12	+++ ++	300 22	300 36	310 32	320 35	310 45	310 87	310 118	310 134	300 74	300 60	310 22						

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

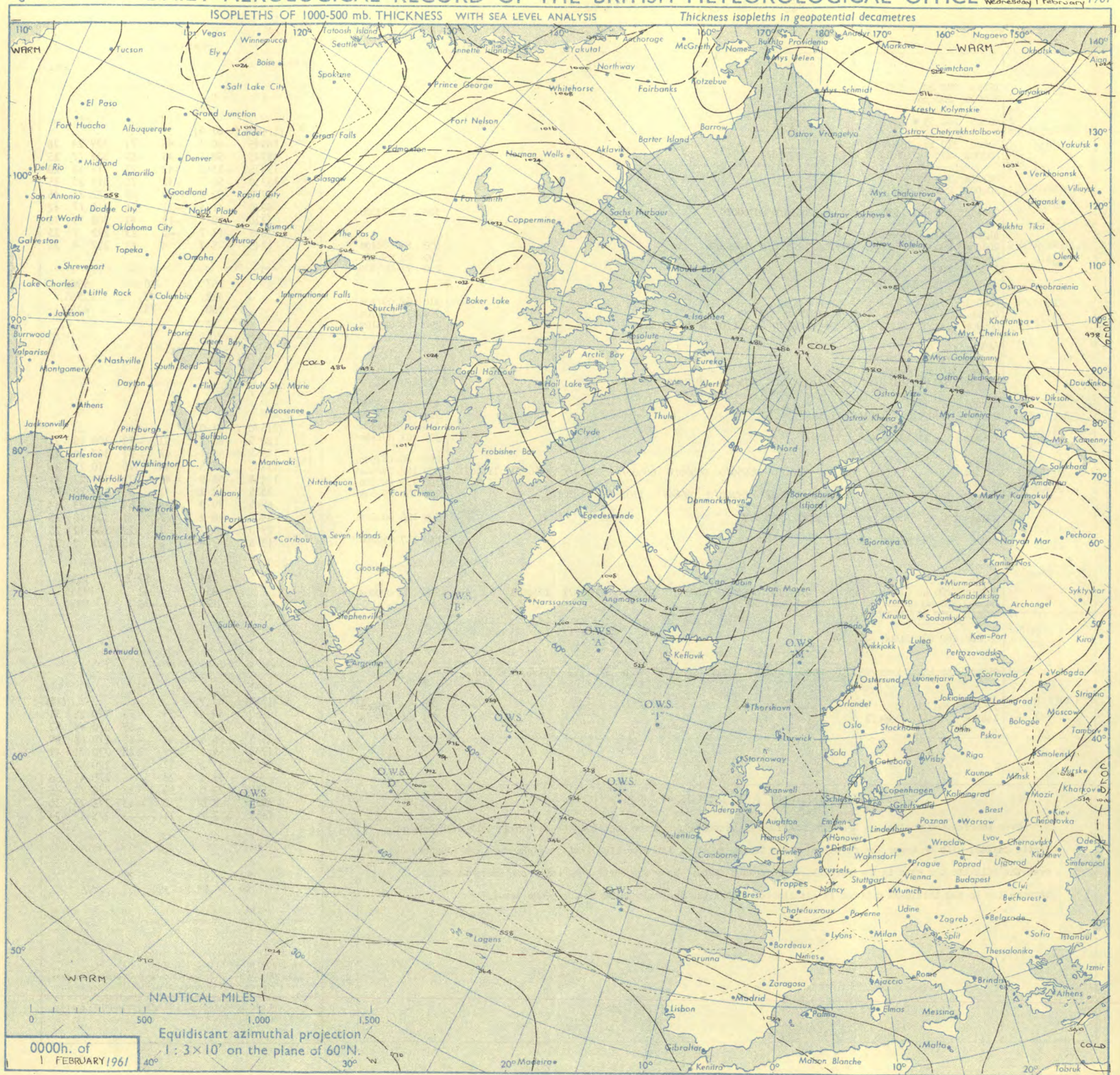
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud : — Inversion Levels : —														
Isothermal Levels : —														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud : — Inversion Levels : —														
Isothermal Levels : —														
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STATION		MAX. WIND
LERWICK 03005	121mb 280 40 21600m 260 33	
STORNOWAY 03026	060mb 280 35 344mb 310 16 032mb 270 32 20200m 270 28 06940/0 07320/0 07720/0	
SHANWELL 03170	22700m 300 20 20400m 290 27 06620m 300 43 15300m 290 46 06650/0 07080/0	300 79 07700m
ALDERGROVE 03917	1442mb 260 16 343mb 280 31 20100m 290 21 06530/0 06930/0 07820/0 10250/1 456mb 300 70 13800m 290 46 04500/0	300 88 08810m 290 99 09400m 290 71 09480m
AUGHTON 03322	06820/0 07640/0 479mb 300 48 456mb 300 74 P17700m 280 35 04590m 290 45 23400m 270 06 04590/0 12230/0 12950/1 15150/1	310 69 09710m 300 116 07170m 290 80 09510m
HEMSBY 03496	085mb 300 35 20100m 330 49 14200/0 366mb 310 55 062mb 310 14 05780m 300 54 19120m 310 20 05400/0 06150/0 09320/0 09620/1	310 78 08470m 300 110 09530m
CRAWLEY 03774	22200m 330 10 03080/1 07090/0 08050/0 11850/1 440mb 310 105 076mb 300 31 15600m 310 41 04060/0 07720/0	290 62 01000m 310 72 08710m 310 119 07620m 300 101 09110m
CAMBORNE 03808	137mb 310 43 05130m 310 63 13500m 330 65 05130/0 05550/0 06560/0 08400/0 09640/1 10660/1 11120/1 223mb 300 105 132mb 300 48 16800m 300 32 01090/2 01490/2 01820/2 07240/0 09960/1 11010/1 11420/1	290 86 08750m 300 168 09250m 300 139 09530m 290 144 09760m
VALENTIA 03953	921mb 270 35 746mb 290 37 322mb 300 117 638mb 260 58 245mb 290 110	300 126 08620m 290 117 09620m
Ocean Weather Station 'I' 59°00'N 19°00'W	313mb 300 27 157mb 290 38 06000m 290 40 18000m 280 39 01470/5 04500/0 08050/0 08850/0 09300/1 10100/1 343mb 270 40 112mb 260 48 091mb 260 36 11100m 250 33 11350/0	290 81 09000m
Ocean Weather Station 'J' 52°30'N 20°00'W	533mb 280 85 310mb 280 142 993mb 250 44 900mb 250 50 800mb 250 53 600mb 250 69 346mb 250 152 231mb 250 118	
LARKHILL 03743	17980m 280 21 15850m 310 31 13900/1	310 150 08500m 310 146 08900m

NOTES ON THE AEROLOGICAL SITUATION

Over America the westerlies are much the same as yesterday. There continues to be a high cell over part of Arctic Canada, with an upper low moving eastward to the south of Labrador like that of eight days ago (January 24). Over the Atlantic the wave in the westerlies progresses fast. Near the North Pole there continues to be an intense low in the thickness pattern in association with a growing depression in the 500mb level.

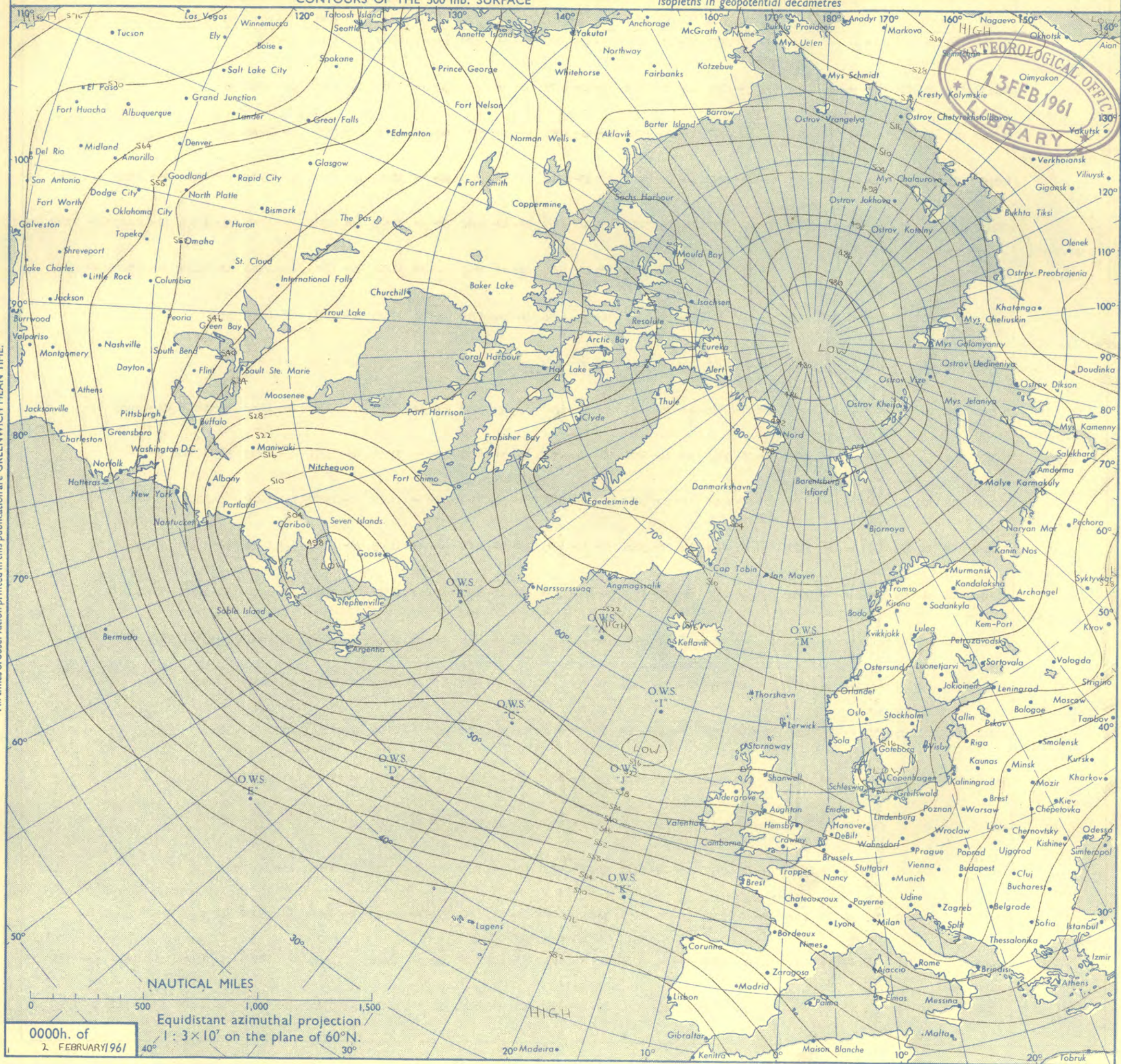
AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	46
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropo- pause		Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
		mb.	°C	mb.	mb.	°C	°C
Upper		98	-63.6	...	72	...	-73
Lower		230	-58.2	350	...	-52	...
* V _R = Vector average wind. V _S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.							
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.							
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.							



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C			
LERWICK 03005	012330	082	03	01	056-	++	++	1243	06-	08-	2737	16-	23-	5176	35-	45-	6707	43-	++	8600	55-	++	11260	45-	13187	45-														
	021136	082	01	01	045-	++	++	1246	07-	10-	2731	18-	22-	5158	35-	47-	6679	46-	++	8553	54-	++	11198	47-	13111	45-	15812	46-												
STORNOWAY 03026	012340	013	03	01	043-	++	++	1262	04-	06-	2767	13-	22-	5241	31-	41-	6795	40-	50-	8736	48-	++	11372	47-	13295	44-	16023	46-												
	021209	013	04	03	035-	++	++	1263	06-	08-	2752	16-	23-	5201	33-	45-	6744	41-	++	8639	56-	++	11284	45-	13201	45-	15892	47-	18240	49-	20427	52-	23742	50-						
SHANWELL 03170	012330	005	00	01-	047-	++	++	1252	05-	07-	2753	14-	25-	5215	33-	42-	6767	39-	49-	8692	50-	++	11385	44-	13331	46-	15994	51-	18304	51-	20487	53-	23787	53-						
	021130	005	03	01-	059-	++	++	1242	05-	10-	2740	15-	24-	5195	32-	41-	6739	41-	++	8643	52-	++	11325	43-	13263	44-	15963	47-	18299	50-	20482	51-	23809	45-						
ALDERGROVE 03917	012330	077	04	01	054-	++	++	1252	03-	04-	2759	14-	17-	5242	31-	34-	6796	40-	46-	8718	46-	++	11426	43-	13363	47-	16008	51-												
	021130	077	01	00	070-	++	++	1234	02-	04-	2744	13-	17-	5213	33-	40-	6739	46-	++	8623	49-	++	11318	44-	13236	47-														
AUGHTON 03322	012340	056	05	03	036-	++	++	1272	02-	04-	2781	14-	19-	5267	30-	32-	6827	39-	45-	8759	47-	++	11463	45-	13398	46-	16043	52-	18325	54-	20485	55-								
	021135	056	04	04	071-	++	++	1235	03-	04-	2745	12-	14-	5226	31-	34-	6758	46-	++	8671	47-	++	11391	42-	13324	45-	16013	50-	18340	51-										
HEMSBY 03496	012345	012	02	01	021-	++	++	1287	03-	06-	2793	13-	20-	5287	27-	29-	6851	39-	42-	8783	48-	++	11478	41-	13422	46-	16073	53-	18359	54-	20519	54-								
	021128	012	04	03	078-	++	++	1229	03-	06-	2739	12-	16-	5225	30-	34-	6775	40-	46-	8709	46-	++	11445	40-	13399	44-	16097	48-	18440	51-	20621	54-								
CRAWLEY 03774	012330	144	04	03	008-	++	++	1301	02-	04-	2824	09-	11-	5350	24-	36-	6938	37-	47-	8883	48-	++	11556	45-	13480	47-	16110	55-	18386	54-	20539	55-								
	021130	144	05	03	054-	++	++	1253	04-	05-	2759	13-	17-	5228	32-	37-	6763	43-	++	8703	43-	++	11444	41-	13375	44-	16042	52-	18342	55-	20488	55-								
CAMBORNE 03808	012330	088	09	05	004	++	++	1327	02-	05-	2854	07-	16-	5394	25-	34-	6982	36-	44-	8937	47-	++	11538	50-	13420	54-	15967	60-	18187	60-										
	021140	088	07	05	015	++	++	1329	03-	06-	2836	13-	19-	5316	31-	37-	6858	42-	++	8794	44-	++	11519	45-	13433	48-	16087	51-												
VALENTIA 03953	012330	014	07	06	022-	++	++	1297	02-	07-	2810	11-	15-	5310	25-	35-	6890	35-	48-	8870	44-	++	11550	46-	++++	++	16140	54-												
	021300	014	09	05	015-	++	++	1303	01-	04-	2818	12-	16-	5300	30-	35-	6850	40-	47-	8780	47-	++	11490	45-																
Ocean Weather Station 'I' 59°00'N 19°00'W	020000		07	04	099-	++	++	1213	03-	04-	2719	14-	19-	5170	33-	37-	6720	42-	++	8630	53-	++	11280	45-	13200	45-														
	021100		06	01	004	06	01	1305	05-	08-	2799	16-	20-	5250	34-	43-	6790	42-	++	8680	55-	++	11270	52-	13150	48-	15830	49-												
Ocean Weather Station 'J' 52°30'N 20°00'W	020000		06	05	049-	++	++	1260	02-	02-	2780	12-	14-	5260	30-	33-	6830	33-	40-	8810	41-	++	11550	++	13480	++	16150	51-	18460	51-	20640	53-	23930	++						
	021200		06	05	064	05	04	1360	04-	04-	2874	11-	23-	5380	28-	41-	6940	40-	++	8840	52-	++	11460	52-	13340	51-	15940	54-	18240	53-	20390	54-	23700	++						

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	25 784++	993	983	940	789 10- 12- 776 10- 14- 750 ++ 18- 656 ++ 28- 567 ++ 34- 551 30- 37- 505 ++ 44- 449 39- 50- 298 55- 263 50- 190 44- 136 46- 111 50-	298	08640	55-
	26 734++	994	984	965	975 ++ 02- 860 06- 09- 745 ++ 17- 645 23- 28- 601 ++ 31- 570 ++ 39- 482 37- 49- 351 52- 282 55- 209 47- 100 46- 090 47-	351	07500	52-
STORNOWAY 03026	02 12500	995	993	919	977 04 00 890 ++ 04- 788 09- 12- 769 09- 13- 730 ++ 21- 610 ++ 28- 504 31- 40- 397 ++ 50- 391 41- 383 40- 356 41- 273 53- 224 51- 186 45- 140 42- 073 49- Pressure doubtful above 200mb	273	09330	53-
	25 724++	996	994	942	990 ++ 01 966 01 01- 937 ++ 04- 815 09- 12- 804 08- 12- 786 ++ 17- 745 13- 19- 710 ++ 24- 698 ++ 23- 556 ++ 38- 486 34- 47- 412 40- 49- 295 57- 263 53- 238 46- 100 47- 086 49- 074 47- 056 52- 030 50-	295	08730	57-
SHANWELL 03170	02 35670	994	994	918	973 04 00 951 ++ 04- 850 05- 07- 707 13- 24- 541 29- 38- 470 35- 45- 385 40- 50- 325 48- 280 52- 237 43- 202 44- 188 40- 142 48- 100 51- 095 50- 083 54- 065 50- 045 53- 030 53-	280	09120	52-
	01 00901	993	992	930	973 03 01- 870 05- 08- 747 11- 19- 603 23- 32- 513 32- 41- 414 40- 46- 306 53- 196 42- 120 47- 100 47- 072 52- 058 53- 036 52- 030 45-	306	08500	53-
ALDERGROVE 03917	21 25437	993	984	902	885 ++ 02- 787 07- 10- 732 ++ 15- 700 14- 17- 637 17- 19- 539 ++ 30- 470 34- 38- 415 ++ 41- 397 ++ 46- 332 48- 232 45- 178 41- 124 52- 110 50- 065 55-	332	08070	48-
	50 362++	992	982	922	974 02 01- 910 ++ 02- 849 02- 04- 627 19- 24- 540 ++ 35- 474 ++ 43- 375 50- 361 48- 323 51- 202 44- 110 50-	375	07180	50-
AUGHTON 03322	25 885++	996	989	889	896 ++ 01- 761 ++ 11- 739 10- 16- 690 15- 20- 601 19- 22- 489 32- 35- 481 31- 34- 394 40- 46- 350 46- 200 45- 184 42- 133 49- 121 53- 088 54- 077 57- 068 52- 040 56-	350	07710	46-
	61 8042+	991	984	914	970 03 00 886 ++ 02- 688 13- 15- 532 27- 30- 440 40- 43- 398 46- 383 44- 311 48- 209 42- 100 50- 060 53- 45- 184 42- 133 49- 121 53- 088 54- 077 57- 068 52- 040 56-	398	06780	46-
HEMSBY 03496	03 7097+	997	996	904	984 05 02 878 02- 03- 819 ++ 08- 775 ++ 09- 672 ++ 24- 583 21- 33- 556 ++ 27- 541 23- 27- 472 ++ 53- 418 39- 41- 347 45- 295 48- 175 41- 112 53- 085 56- 050 54-	295	08770	48-
	50 873++	990	989	902	980 04 01 790 07- 10- 592 20- 24- 481 32- 36- 436 39- 43- 425 38- 44- 384 40- 46- 362 44- 328 46- 294 46- 259 42- 182 40- 135 45- 097 49- 052 54- 040 54-	328	08100	46-
CRAWLEY 03774	61 863++	999	981	897	780 06- 08- 751 06- 08- 638 ++ 16- 617 16- 19- 592 ++ 25- 516 23- 36- 388 39- 49- 302 48- 289 47- 245 51- 228 47- 185 43- 136 50- 088 56- 047 55-	245	10210	51-
	25 733++	994	976	912	969 03 01 959 ++ 00 833 ++ 06- 715 12- 16- 659 ++ 21- 626 ++ 22- 545 ++ 33- 446 390 44- 410 43- 203 41- 182 45- 151 44- 109 52- 084 52- 069 56- 043 56- 032 51-	410	06590	43-
CAMBORNE 03808	02 00902	001	990	870	947 06 04 897 02 01- 790 08- 09- 775 03- 07- 761 ++ 10- 559 18- 27- 511 24- 33- 376 39- 47- 359 39- 47- 257 56- 235 58- 213 58- 206 52- 197 49- 171 49- 138 58- 117 61- 102 61- 091 59- 080 62- 063 58-	235	10510	58-
	27 39463	002	991	891	981 ++ 03 898 ++ 02- 868 ++ 06- 806 06- 07- 701 ++ 19- 641 17- 23- 583 ++ 27- 512 ++ 37- 480 ++ 39- 430 40- 45- 376 44- 224 42- 181 47- 167 45- 136 51- 099 51- 085 56-	376	07270	44-
VALENTIA 03953	25 35600	997	996	882	957 06 02 898 01 03- 793 06- 09- 630 16- 19- 559 23- 27- 499 26- 36- 460 31- 42- 436 33- 45- 366 36- 49- 341 39- 323 40- 285 46- 262 47- 208 51- 198 45- 178 43- 158 43- 096 55- 070 55-	208	11300	51-
	25 794++	998	997	882	929 02 01- 908 02 01- 882 00 03- 865 00 03- 794 06- 10- 757 07- 11- 435 38- 45- 395 40- 47- 321 47- 279 44- 217 45- 137 48- 131 46- 104 52-	321	08300	47-
Ocean Weather Station 'I' 59°00'N 19°00'W	60 5742+	988	988	894	955 03 00 894 00 01- 804 ++ 07- 710 13- 18- 662 ++ 24- 648 19- 24- 590 ++ 35- 546 29- 34- 502 ++ 36- 414 40- 44- 316 50- 289 55- 275 55- 227 46- 133 46-	289	08900	55-
	80 785++	000	000	934	985 04 01- 907 02- 04- 867 ++ 07- 735 13- 16- 635 21- 30- 530 30- 39- 473 37- 46- 455 37- 45- 424 40- 46- 313 53- 267 59- 253 56- 243 57- 223 51- 198 52- 121 47- 085 51-	267	09400	59-
Ocean Weather Station 'J' 52°30'N 20°00'W	62500	993	993	870	975 05 01 870 00 00 720 11- 11- 486 32- 35- 438 34- 40- 352 38- 45- 324 38- 46- 312 40- 48- 279 42- 257 57- 225 52- 213 42- 148 47- 114 48- 032 52-	279	09300	42-
	52500	007	007	915	960 02 00 915 00 00 805 07- 07- 789 07- 10- 715 10- 21- 675 12- 26- 565 21- 34- 405 40- 51- 348 49- 265 51- 220 53- 178 49- 128 55- 117 54- 037 52-	300	08800	52-

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	012330	T	020 22	+++ ++	030 21	040 14	020 07	360 09	250 07	280 08	290 11	300 12	290 21	290 29	290 41						
	020530	P	040 20	+++ ++	040 20	030 18	360 10	010 07	260 11	300 04	260 10	280 19	290 28	280 27	260 28						
	021136	T	010 18	+++ ++	040 20	040 17	080 08	080 03	220 04	310 07	290 09	300 23	290 24	280 25	260 24	280 23	P290 18	250 19			
	021730	P	340 12	+++ ++	360 13	330 06	260 05	290 13	290 12	300 15	290 20	300 38	280 34	280 24	260 24	240 24	260 28				
STORNOWAY 03026	012340	T	070 05	+++ ++	080 06	100 04	060 02	300 06	280 06	270 09	280 16	290 31	280 27	280 34	P280 35						
	020535	P	080 08	+++ ++	060 10	070 08	030 07	350 03	300 09	310 10	290 14	300 14	280 25	260 35	270 23	270 26	270 32				
	021209	T	040 20	+++ ++	070 22	070 20	080 17	060 11	340 13	320 15	310 18	330 17	290 29	280 23	270 35	290 25	250 22	250 27			
	021735	P	010 14	+++ ++	030 14	040 07	360 15	010 07	330 11	320 14	310 30	300 29	280 23	270 30	270 35	250 24					
SHANWELL 03170	012330	T	280 03	+++ ++	290 04	290 04	310 08	320 12	300 16	300 17	300 39	290 38	280 43	280 43	270 42	280 31	290 27	290 26			
	020530	P	000 00	+++ ++	070 05	060 02	360 03	290 03	290 06	290 15	290 16	290 23	280 32	270 38	280 37	260 28	280 24				
	021130	T	340 04	+++ ++	020 06	030 07	360 08	340 07	320 10	320 14	320 18	310 09	290 24	290 27	280 26	280 27					
	021730	P	360 04	+++ ++	010 10	010 12	010 12	360 11	330 15	320 18	330 21	310 17	300 29	290 27	280 28						
ALDERGROVE 03917	012330	T	180 06	+++ ++	200 10	190 10	190 11	210 15	280 26	280 20	270 36	280 51	280 54	270 53	280 55	280 39					
	020540	P	170 03	+++ ++	270 11	280 11	280 15	280 20	280 17	280 13	250 12	270 37	280 43	270 44	270 39	270 27					
	021130	T	100 05	+++ ++	320 19	320 20	300 21	280 22	270 21	290 19	320 16	280 19	290 35	280 44	280 39						
	021730	P	070 07	+++ ++	080 15	350 05	310 10	300 16	300 14	310 17	300 20	300 26	300 40	290 39	280 37						
AUGHTON 03322	012340	T	240 09	+++ ++	260 15	260 12	260 08	260 16	280 30	270 28	280 59	280 67	280 68	290 61	280 46	280 37	270 28	280 14			
	020625	P	120 06	+++ ++	290 21	280 19	280 20	280 22	280 20	260 08	280 23	290 40	280 49	280 48	280 49	290 29	300 18				
	021135	T	000 00	+++ ++	310 20	310 19	300 21	300 21	310 25	310 23	300 17	290 22	290 37	290 45	280 38	280 33	280 18				
	021730	P	060 03	+++ ++	300 13	290 17	300 18	300 19	300 22	300 23	300 21	300 38	300 41	290 38	290 38	290 30					
HEMSBY 03496	012345	T	220 07	+++ ++	260 14	270 13	270 20	260 27	250 28												
	020530	P	300 07	+++ ++	270 09	280 10	280 07	240 17	290 25	280 27	290 46	290 54	290 60	290 55	280 49	270 29					
	021128	T	280 08	+++ ++	350 05	360 08	310 07	300 08	310 18	310 22	290 16	300 28	290 38	290 43	270 39	280 38	280 18	270 17			
	021730	P	270 02	+++ ++	330 09	320 09	300 10	310 15	300 26	310 29	310 18	300 34	300 35	280 35	300 27	290 20	300 17				
CRAWLEY 03774	012330	T	200 08	+++ ++	210 21	210 20	250 36	270 37	290 65	290 75	290 91	300115	290105	310 70	300 49	290 36	300 23				
	020530	P	260 09	+++ ++	290 41	300 43	300 43	290 51	290 45	290 54	290 79	280 98	290 75	280 67	290 55	290 33	290 22				
	021130	T	280 15	+++ ++	300 40	300 43	300 41	300 39	300 31	290 24	290 23	290 47	290 54	290 62	280 47	290 34	290 15	250 08	P210 13		
	021730	P	270 06	+++ ++	300 26	310 28	290 28	300 30	310 34	300 38	320 63	300 54	300 60	300 48	290 43						
CAMBORNE 03808	012330	T	270 22	+++ ++	290 47	290 52	280 58	280 61	280 80	270 85	280118	290115	280118								
	020530	P	270 25	+++ ++	290 47	290 48	290 53	280 59	270 69	270 77	280111	270116	280106	280 68							
	021140	T	280 30	+++ ++	290 54	300 59	300 54	300 54	300 52	300 46	300 75	290103	300 90	280 79	290 63						
	021730	P	270 30	+++ ++	280 53	290 61	290 56	300 56	300 59	300 62	300 99	290 90	290 84	300 58	300 49	300 30					
VALENTIA 03953	012345	P	315 20	+++ ++	270 45	270 51	270 55	270 55	270 60	270 77	270120										
	021134	P	315 30	+++ ++	270 50	270 53	280 63	290 61	280 53	290 65											
Ocean Weather Station 'I' 59°00'N 19°00'W	020000	T	090 40	+++ ++	080 37	080 35	090 29	090 20	090 08	000 00	000 00	140 13	230 18	280 30	250 37						
	020600	P	045 40	+++ ++	080 30	080 24	070 17	010 07	080 07	320 03	280 07	010 07	250 28	+++ ++	+++ ++	250 48	250 40				
	021100	T	050 28	+++ ++	060 29	060 25	060 09	040 04	290 16	270 16	280 25	280 34	260 40	280 36	260 39	230 43					
	021800	P	045 20	+++ ++	060 15	030 09	310 11	290 15	280 20	290 22	290 37	280 40	260 41	260 45	260 44	270 37	260 40				
Ocean Weather Station 'J' 52°30'N 20°00'W	020000	T	250 53	+++ ++	+++ ++	250 73	+++ ++	260 66	+++ ++	270 57	260 84	260100									
	020500	T	260 62	+++ ++	+++ ++	270 78	+++ ++	280 80	280 78	280 99	280 99	280133	280127	+++ ++	280 80						
	021200	T	260 51	260 52	+++ ++	280 57	+++ ++	280 36	+++ ++	280 83	280107	270113									
	021700	T	280 30	+++ ++	+++ ++	290 32	+++ ++	290 57	280 61	280 69	280 67	280 78	+++ ++	280 68	280 67	270 65					
LARKHILL 03743	020800	P	240 17	+++ ++	290 40	300 38	300 39	290 34	290 34	270 43	280 49	290 60	280 76	290 56	280 47	280 29	290 18				
	021055	P	280 24	+++ ++	290 40	290 49	300 48	310 45	310 40	320 27	290 36	300 58	290 66	300 55	270 48	280 32					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE		SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf. 0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
Cloud :—															
Inversion Levels :—															
Isothermal Levels :—															
YYGGgg	POSITION	PRESSURE		SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf. 0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
Cloud :—															
Inversion Levels :—															
Isothermal Levels :—															
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STATION		MAX. WIND
LERWICK 03005	120mb 290 41 15600m 270 30 P22200m 260 21 07450/0 09050/1	300 45 08900m
STORNOWAY 03026	18900m 280 30 02210/5 03700/5 034mb 250 28 17400m 250 29 06300/0 10020/1	
SHANWELL 03170	038mb 290 17 277mb 290 15	
ALDERGROVE 03917	073mb 220 10 16830m 270 29 08600/0 12480/1 354mb 280 12 120mb 280 33 01370/5	280 71 09300m
AUGHTON 03322		280 82 09400m
HEMSBY 03496	17800m 310 20 03440/2 05600/0 08110/0 346mb 280 16 08790/0	290 65 10030m
CRAWLEY 03774	19800m 260 04 06520/0 07010/0 08740/0 09220/1 09680/1 P25800m 160 19 06390/0	300 121 08960m 280 130 08460m 290 63 11020m 310 64 06950m
CAMBORNE 03808	238mb 280 132 13500m 290 44 05390/0 05930/0 06430/0 10910/1 12870/1 01200m 290 62 17400m 290 37 06010/0	280 162 09570m 270 118 08810m 290 105 08990m 300 102 07050m
VALENTIA 03953	00300m 280 34 00600m 270 43 08400m 260 134 00300m 290 39 00600m 270 47 05700m 280 76	260 134 08330m 280 76 05700m
Ocean Weather Station 'I' 59°00'N 19°00'W	277mb 180 16 142mb 250 33 19500m 240 45 05180/5 09700/0 10000/0 679mb 340 09 090mb 240 34 01800m 360 08 18600m 260 40 03240/5	230 66 14040m
Ocean Weather Station 'J' 52°30'N 20°00'W	257mb 250 109 225mb 260 90 209mb 260 98 900mb 270 77 800mb 270 80 421mb 280 140 329mb 270 123 242mb 260 115 900mb 290 31 800mb 290 39 282mb 280 84 097mb 270 66	260 108 09850m 270 123 08250m
LARKHILL 03743	20120m 300 08 17070m 280 27 06230/5	280 80 10350m 290 72 10200m

NOTES ON THE AEROLOGICAL SITUATION

The low over eastern Canada has been slow-moving and very strong flow persists on its south side. A ridge has begun to form in mid-Atlantic whilst the low which was in this position yesterday has moved quickly eastnortheast. The trough which was over the North Sea yesterday has moved to central Europe with substantial deepening of the portion over southern Italy.

AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	41
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		98	-63.6	...	72	...	-73
		230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

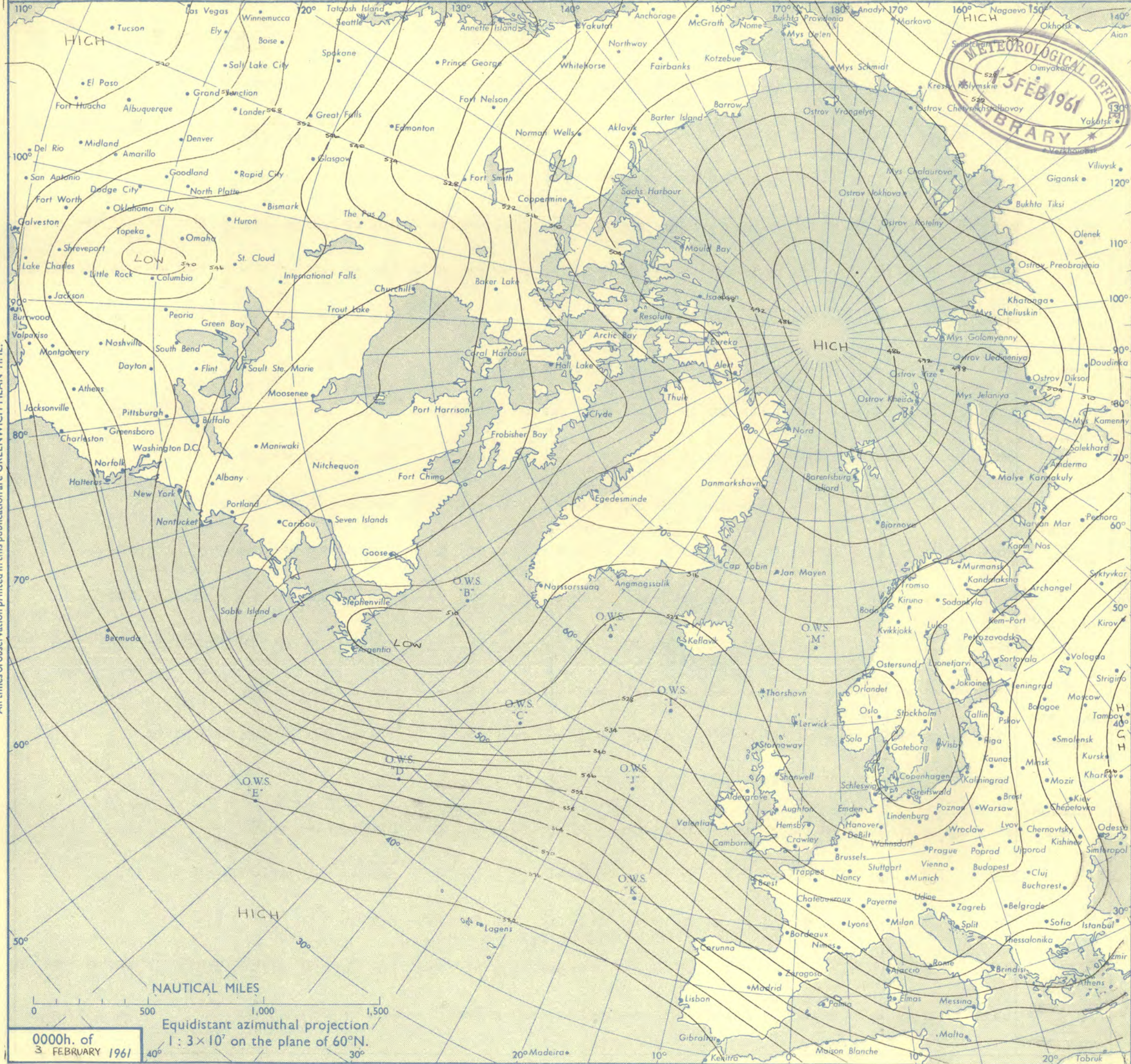
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



All times of observation printed in this publication are GREENWICH MEAN TIME.

NAUTICAL MILES

Equidistant azimuthal projection
1 : 3 × 10⁷ on the plane of 60°N.

0000h. of
3 FEBRUARY 1961

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb						
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C							
LERWICK 03005	022332	082	00	01-	008	++	++	1293	09-	13-	2766	20-	23-	5174	37-	47-	6679	49-	++	8533	54-	++	11157	49-	13056	47-	15729	50-	18053	51-														
	031135	082	01-	01-	052	++	++	1332	10-	12-	2799	21-	24-	5202	38-	46-	6704	49-	++	8554	55-	++	11197	49-	13090	47-	15779	47-	18112	52-														
STORNOWAY 03026	022330	013	02	03-	042	02	04-	1327	09-	13-	2806	17-	31-	5231	36-	46-	6746	46-	++	8632	54-	++	11235	51-	13125	48-	15798	50-	18121	52-	20304	52-												
	031130	013	03	00	093	02	02-	1376	09-	11-	2846	20-	32-	5238	40-	50-	6725	50-	++	8575	57-	++	11161	52-	13019	51-	15652	54-	17941	53-														
SHANWELL 03170	022330	005	02	03-	012	02	03-	1307	05-	09-	2805	16-	24-	5249	33-	39-	6794	41-	++	8699	53-	++	11327	48-	13239	45-	15925	50-	18261	50-	20443	53-												
	031130	005	03	07-	078	02	06-	1365	08-	12-	2841	18-	25-	5270	36-	46-	6792	44-	++	8682	54-	++	11323	49-	13225	47-	15903	47-	18245	50-	20444	51-	23824	45-										
ALDERGROVE 03917	022330	077	01	01	014	++	++	1310	06-	08-	2807	14-	23-	5258	34-	38-	6790	43-	++	8670	55-	++	11294	49-	13184	49-	15834	51-	18145	53-	20316	54-												
	031130	077	02	01	102	02	00	1400	06-	10-	2894	15-	22-	5338	34-	45-	6859	44-	++	8754	54-	++	11347	51-	13216	52-																		
AUGHTON 03322	022330	056	04	02	004-	++	++	1304	03-	07-	2809	13-	16-	5285	31-	36-	6823	45-	++	8714	52-	++	11384	45-	13302	46-	15979	48-	18309	51-	20486	53-												
	031130	056	05	01	096	04	01-	1386	07-	12-	2874	16-	28-	5310	34-	42-	6840	44-	++	8724	54-	++	11349	51-	13228	50-	15883	51-																
HEMSBY 03496	022330	012	03	02	027-	++	++	1278	04-	10-	2778	13-	16-	5254	31-	37-	6798	42-	++	8705	51-	++	11373	46-	13299	44-	15995	48-																
	031130	012	05	03	055	05	01	1353	07-	10-	2844	16-	28-	5290	32-	42-	6840	41-	++	8735	56-	++	11343	50-	13233	48-	15982	49-																
CRAWLEY 03774	022330	144	04	03	033-	++	++	1280	02-	05-	2796	11-	15-	5284	30-	36-	6833	43-	++	8723	49-	++	11419	45-	13342	45-	16016	50-	18332	53-	20500	54-												
	031130	144	04	01	083	++	++	1383	05-	09-	2883	14-	26-	5355	30-	42-	6910	40-	50-	8812	53-	++	11438	48-	13322	49-	15982	50-	18291	52-	20464	53-	23755	52-										
CAMBORNE 03808	022335	088	08	05	024	++	++	1344	02-	03-	2857	12-	20-	5338	31-	41-	6882	42-	++	8787	50-	++	11464	46-	13367	49-	16010	53-																
	031130	088	08	05	125	07	03	1460	00	17-	2983	11-	22-	5475	29-	41-	7034	40-	++	8955	51-	++	11535	55-	13398	52-	16014	53-	18297	55-														
VALENTIA 03953	030000	014	08	06	044	08	06	1366	01-	04-	2886	11-	17-	5380	30-	37-	6940	42-	++	8840	50-	++	11510	44-																				
	031130	014	09	07	126	08	06	1441	02-	04-	2961	11-	17-	5460	28-	33-	7030	39-	44-	8940	53-	++	11500	55-	+++++	++	15940	55-																
Ocean Weather Station 'I' 59°00'N 19°00'W	030000		05	04-	077	04	04-	1367	07-	10-	2857	17-	30-	5300	34-	46-	6820	48-	++	8680	58-	++	11260	52-	13120	51-	15770	52-	18080	52-														
	031200		06	01	017-	++	++	1287	05-	06-	2784	14-	19-	5250	34-	40-	6770	47-	++	8610	56-	++	11230	51-																				
Ocean Weather Station 'J' 52°30'N 20°00'W	030000		07	02	123	05	01-	1420	01-	13-	2947	10-	21-	5450	30-	40-	6990	42-	++	8900	52-	++	11500	52-	13360	51-	15980	54-	18280	53-	20440	54-	23730	51-										
	031200		11	09	083	10	08	1400	00	03-	2939	08-	11-	5470	25-	28-	7050	36-	42-	8980	51-	++	11520	58-	13360	54-	15970	55-																

STATION	ww N _H C _L hC _M C _H	PRESSURE																													TROPOPAUSE				
		MSL	Surf.	0°C level																													mb	m	°C
LERWICK 03005	26 5843+	002	991	991	989 600	++ ++	02- 35-	953 540	01- ++	06- 43-	901 478	++ 40-	07- 50-	872 440	++ 43-	09- 365	790 54-	++ 252	16- 54-	751 183	15- 47-	18- 100	652 50-	++ 060	27- 52-	636	27-	29-	620	26-	29-	365	07270	54-	
	86 733++	006	996	996	975 52-	01- 062	04- 51-	943	++	08-	907	++	07-	660	24-	27-	583	++	37-	480	40-	48-	387	50-	325	56-	244	49-	100	47-	075	325	08040	56-	
STORNOWAY 03026	02 757++	005	004	967	996 47-	02 328	05- 50-	971 280	++ 57-	08- 185	804 49-	13- 122	16- 46-	792 107	11- 50-	17- 053	783 51-	++ 045	21- 53	732	14-	28-	532	33-	44-	475	39-	49-	395	47-	371	280	09070	57-	
	02 18500	012	010	971	985 51-	++ 182	04- 55-	819 138	12- 50-	14- 101	770 54-	14- 077	20- 55-	735 069	++ 53-	28- 056	556 55-	35- 45-	45- 498	40-	50-	431	48-	349	53-	314	57-	267	58-	204	314	08280	57-		
SHANWELL 03170	02 00900	001	001	942	990 284	03 56-	03- 256	942 56-	00 238	04- 50-	831 144	06- 45-	10- 100	757 50-	11- 049	18- 53-	730 039	13- 50-	21- 581	28- 33-	33- 535	30- 35-	35- 437	++	45-	407	40-	46-	284	09030	56-				
	02 55500	010	009	966	909 051	++ 51-	08- 030	852 45-	08-	12-	764	++	17-	610	25-	36-	481	37-	47-	419	43-	302	54-	165	46-	123	49-	116	47-	100	47-	302	08670	54-	
ALDERGROVE 03917	10 45600	002	993	929	982 ++	03 43-	01 321	931 54-	00 297	03- 56-	887 172	++ 48-	06- 096	816 51-	09- 040	10- 56-	801	07- 12-	794	++	17-	721	++	24-	680	16-	25-	543	30-	35-	434	297	08740	56-	
	10 15600	012	003	942	985 559	++ ++	02- 37-	965 491	01 ++	03- 47-	888 458	++ 40-	09- 50-	786 404	11- 44-	15- 358	763 46-	10- 308	20- 53-	740 254	++ 59-	19- 214	693 51-	16- 117	23- 52-	578	28-	32-	565	27-	34-	254	09800	59-	
AUGHTON 03322	10 855++	999	993	905	988 53-	04 046	02- 52-	732	12-	14-	714	12-	15-	624	++	23-	579	23-	28-	432	40-	46-	389	46-	300	52-	205	45-	100	48-	057	300	08710	52-	
	02 11500	012	005	959	000 612	04 ++	01- 32-	962 539	00 32-	05- 38-	917 491	++ 34-	10- 42-	896 461	04- 38-	07- 47-	852 433	07- 40-	12- 48-	822 331	07- 52-	15- 279	774 55-	++ 246	18- 50-	726 108	15- 50-	24- 096	687 54-	17- 080	29-	52-	279	09180	55-
HEMSBY 03496	10 864++	997	995	918	980 40-	03 46-	02 376	910 45-	++ 290	01- 52-	872 211	02- 45-	08- 179	770 44-	++ 138	10- 44-	725 130	13- 47-	14- 100	706 48-	13-	15-	661	16-	19-	561	++	27-	492	++	37-	423	290	08910	52-
	01 5346+	007	005	937	001 531	++ 30-	01 41-	853 507	07- 31-	10- 41-	828 481	08- 45-	12- 468	812 34-	++ 44-	15- 413	801 39-	09- 50-	15- 315	790 54-	++ 286	20- 57-	751 222	12- 50-	25- 100	604 49-	25- 34-	558	27-	38-	286	09030	57-		
CRAWLEY 03774	21 756++	996	979	880	969 341	04 53-	01 327	962 50-	++ 229	00 45-	864 139	++ 45-	04- 130	690 48-	++ 050	16- 54-	656	14- 20-	629	++	25-	580	++	27-	547	++	31-	420	++	46-	377	46-	341	07890	53-
	02 62500	011	993	942	917 51-	02- 287	04- 55-	880 197	03- 49-	08- 042	840 54-	++ 030	09- 52-	787	++	18-	750	++	23-	690	15-	27-	594	++	35-	413	39-	49-	330	51-	317	287	09090	55-	
CAMBORNE 03808	25 39500	003	992	878	908	++	01	813	05-	06-	753	08-	15-	606	20-	31-	425	40-	48-	360	48-	286	50-	200	46-	098	53-						360	07570	48-
	02 21500	015	005	852	970 231	++ 61-	02 213	904 53-	00 197	05- 55-	879 178	01 51-	12- 060	810 56-	++	23-	741	++	20-	676	++	23-	561	24-	37-	410	39-	50-	335	46-	263	58-	231	10630	61-
VALENTIA 03953	03 694++	006	004	870	955 48-	07 112	05 49-	892	01	02-	659	14-	22-	430	38-	45-	330	48-	291	50-	268	48-	253	50-	198	44-	178	49-	152	51-	124	290	09100	50-	
	25 884++	016	014	880	941 61-	03 204	01 54-	844 187	03- 58-	05- 155	810 52-	04- 141	21- 55-	743 124	06- 53-	23- 115	638 56-	16- 097	20- 54-	622 082	16- 58-	20- 581	21- 24-	24- 551	22- 25-	350	46-	247	247	10200	61-				
Ocean Weather Station 'I' 59°00'N 19°00'W	02 35600	009	009	951	868 248	07- 56-	08- 227	858 56-	07- 208	08- 52-	830 186	07- 53-	20- 126	796 48-	++ 106	03- 52-	655	17-	30-	524	31-	44-	455	40-	50-	399	48-	310	57-	281	59-	281	09100	59-	
	02 785++	998	998	927	981 335	04 57-	01- 269	871 55-	04- 237	05- 50-	812 183	++ 51-	09-	702	++	21-	678	++	20-	641	19-	23-	538	++	31-	500	34-	40-	449	40-	45-	335	07900	57-	
Ocean Weather Station 'J' 52°30'N 20°00'W	40502	014	014	880	995 134	04 51-	02 081	925 52-	00 060	02- 54-	900 043	00 54-	03- 020	880 51-	00	09-	835	02-	14-	760	07-	18-	670	11-	24-	424	40-	49-	295	53-	236	56-	295	09000	53-
	3577+	009	009	850	945 54-	05 135	03 55-	880 112	02 52-	02-	825	01-	02-	600	15-	18-	529	23-	26-	484	26-	29-	438	32-	38-	373	40-	46-	230	65-	177	230	10700	65-	

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	022332	P	350 19	+++ ++	030 27	030 26	020 16	020 16	330 19	300 16	290 21	290 34	280 33	270 22	260 26	260 27	250 22				
	030530	P	350 13	+++ ++	350 23	340 23	320 22	330 22	330 19	310 23	310 22	290 29	280 29	270 29	250 31	250 29	250 31				
	031135	T	300 08	+++ ++	310 19	320 19	300 16	300 22	300 29	300 28	310 29	300 28	300 33	280 30	270 34	260 29	250 28				
	031730	P	300 08	+++ ++	310 17	290 22	290 24	300 22	300 31	290 29	300 43	290 44	290 30	290 32	280 33	260 32					
STORNOWAY 03026	022330	T	350 14	+++ ++	350 11	350 12	340 13	340 14	320 19	320 23	290 37	290 49	290 43	290 37	270 36	260 33	260 25	230 24			
	030530	P	340 12	+++ ++	320 06	330 07	340 07	350 08	320 18	300 23	290 52	290 41	290 38	280 39	280 41	260 33					
	031130	T	000 00	+++ ++	040 04	350 03	330 12	340 14	310 16	310 22	300 38	300 42	290 50	290 50	280 37	270 30	260 29				
	031730	P	210 03	+++ ++	160 06	170 03	290 03	280 06	290 20	280 38	270 65	280 63	290 54	280 49	290 52						
SHANWELL 03170	022330	T	000 00	+++ ++	350 12	350 16	350 18	340 19	330 18	310 20	310 28	310 24	300 23	290 29	270 30	270 26	260 21	240 18	P230 21		
	030530	P	000 00	+++ ++	330 12	330 20	310 28	310 25	330 22	310 29	300 54	290 40	290 38	290 38	280 31	260 23					
	031130	T	330 06	+++ ++	040 17	030 16	010 12	330 14	300 20	290 30	300 45	300 49	300 50	290 48	280 28	270 27	260 22	230 22	240 25	P210 20	
	031730	P	160 03	+++ ++	190 08	210 11	240 07	280 11	310 31	310 55	300 83	300 85	300 58	290 52	300 40	290 27	280 22				
ALDERGROVE 03917	022330	T	360 05	+++ ++	350 14	360 12	340 16	330 22	330 24	320 32	350 27	330 17	310 33	300 36	290 46	270 29	270 27	240 18			
	030530	P	330 05	+++ ++	360 16	360 16	340 21	330 41	310 44	310 51	300 39	290 33	290 47	290 50	290 40	290 36	270 18				
	031130	T	170 05	+++ ++	310 12	300 20	310 22	300 29	300 39	310 49	310 89	310 117	310 86	300 54	290 48	P290 35	270 21	270 15			
	031730	P	150 12	+++ ++	210 20	220 20	240 18	250 30	270 45	280 58	290 94	290 145	300 116	300 69							
AUGHTON 03322	022330	T	010 07	+++ ++	050 13	040 13	010 14	350 17	330 21	310 27	330 21	330 15	310 24	300 38	290 37	280 33	290 20	230 11			
	030530	No winds reported																			
	031130	No winds reported																			
	031730	P	360 02	+++ ++	280 14	290 19	300 25	300 28	300 41	300 56	310 93	310 134	310 74	310 64	300 36	300 31	280 22	250 27			
HEMSBY 03496	022330	T	000 00	+++ ++	020 06	020 09	330 10	330 13	310 18	310 27	320 15	310 12	310 25	300 31	290 32						
	030530	P	310 07	+++ ++	330 14	330 17	350 19	340 21	330 22	320 27	350 26	320 22	320 30	310 34	290 27	310 20					
	031130	T	330 15	+++ ++	330 22	330 27	340 28	340 30	320 27	310 33	310 39	320 34	300 34	300 41	280 34						
	031730	P	290 12	+++ ++	320 27	310 27	290 32	310 35	310 40	320 61	320 70	320 79	310 58	320 56	310 42	290 30					
CRAWLEY 03774	022330	T	000 00	+++ ++	300 04	300 06	300 16	290 20	280 24	280 25	280 35	310 44	300 45	300 45	290 40	290 36	300 15				
	030530	P	360 07	+++ ++	010 19	350 26	340 26	340 28	330 35	330 34	330 24	330 30	310 40	310 39	310 39						
	031130	T	300 08	+++ ++	340 22	350 25	330 28	330 29	330 40	320 48	320 47	320 43	320 52	310 49	310 38	300 25	290 23	P030 06	210 12		
	031730	P	280 04	+++ ++	310 15	320 22	320 34	320 37	330 52	320 66	330 107	330 112	330 93	320 58	310 40	320 33					
CAMBORNE 03808	022335	T	290 34	+++ ++	300 49	300 49	310 50	310 52	320 54	320 58	300 70	300 62	300 67	300 57	290 55	290 36	P280 21				
	030530	P	330 20	+++ ++	330 37	320 30	320 33	330 38	320 45	330 46	320 48	320 67	320 68	310 59	300 49						
	031130	T	330 14	+++ ++	330 21	330 25	310 28	310 34	310 52	330 81	330 103	330 114	320 106	310 93	300 42	290 30	310 17				
	031730	P	260 09	+++ ++	280 28	290 28	300 37	310 51	310 54	310 76	310 93	320 123	310 98	320 53	300 44	310 29					
VALENTIA 03953	030000	P	360 20	+++ ++	330 31	310 35	310 35	320 40	310 42	300 53	300 63	300 60	300 60	290 48	280 59	280 35					
	031130	T	320 08	290 15	+++ ++	270 23	+++ ++	290 37	+++ ++	300 73	300 91	300 112									
Ocean Weather Station 'I' 59°00'N 19°00'W	030000	T	080 13	+++ ++	110 08	110 06	350 08	340 09	310 19	300 41	280 41	270 29	270 35	260 51	260 50	260 40	260 33				
	030600	P	090 20	+++ ++	120 20	150 14	180 12	200 07	220 13	230 15	240 21	340 31	250 56	280 65	250 52	250 55					
	031200	T	110 38	+++ ++	120 42	120 39	110 28	150 18	160 20	160 17	180 22	230 45	260 47	270 36							
	031800	P	090 40	+++ ++	110 57	110 49	110 52	090 50	090 42	090 38	130 30	250 21	270 45	250 58							
Ocean Weather Station 'J' 52°30'N 20°00'W	030000	T	290 20	290 21	+++ ++	290 32	+++ ++	280 55	270 53	270 69	280 100	280 140	+++ ++	280 79	280 44						
	030500	T	200 24	+++ ++	+++ ++	230 50	+++ ++	280 61	260 89	270 89	280 83	270 127	+++ ++	270 99							
	031200	T	240 40	240 40	+++ ++	260 57	+++ ++	250 65	+++ ++	260 91	280 121	270 79	+++ ++	280 93							
	031700	T	250 35	+++ ++	+++ ++	270 48	+++ ++	260 84	260 92	260 111	260 106	260 53									
LARKHILL 03743	030730	P	360 08	+++ ++	360 19	350 19	340 22	340 33	330 34	330 40	350 35	330 39	310 48	310 38	310 43	300 26	280 16				
	031135	P	320 10	+++ ++	330 18	330 26	330 29	330 43	330 50	320 47	300 42	310 58	320 66	310 45	300 37	290 27					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb m °C °C	700mb m °C °C	650mb m °C °C	600mb m °C °C	550mb m °C °C	500mb m °C °C
031225	53.5N 25.3W	002 994 930	061 03 06-	060 01 06-	866 03- ++	1314 06-06-	1783 11- ++	13- ++	2801 14- ++	16- ++	3959 21- ++	18- ++	5310 23- ++	
Cloud :— 5/8 Sc 4000 to 6000 ft. 1/8 Ci at 20,000 ft. Inversion Levels :— 600 to 550mb -21°C to -18°C Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb m °C °C	700mb m °C °C	650mb m °C °C	600mb m °C °C	550mb m °C °C	500mb m °C °C
031340	57.3N 23.3W	987 979 938	061 04 03-	110- 01 05-	735 03- 05-	1192 06- 08-	1655 08-15-	12- 18-	2673 16- 20-	21- 32-	3813 25- 39-	30- 39-	5112 35- 39-	
Cloud :— 2/8 Cu 1800 to 5000 ft 2/8 Cu 1800 to 12000 ft 1/8 Cb 1800 to 13000 ft 3/8 Ac 14000 to 18000 ft Inversion Levels :— Isothermal Levels :—														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.										Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2				

STATION		MAX. WIND
LERWICK 03005	063mb 250 28 06700/0	
STORNOWAY 03026	17600m 260 27 060mb 260 21 01710/2	280 69 08140m
SHANWELL 03170	P26100m 220 22 18000m 240 21 06720/0 P27600m 220 30 04630/0 08180/0 09000/1 09790/0 10970/1 12870/1	300 93 08100m
ALDERGROVE 03917	02720/0 12730/1 16550/1 435mb 300 63 P21700m 240 18 13650m 300 56 05880/0 07450/0 08700/0 09150/0 09600/1 10950/1 11450/1	310 118 09000m 290 156 09350m
AUGHTON 03322	334mb 010 12 09950m 310 99 22500m 280 13 05190/0 06600/0 07130/0 07650/0 08100/0 09090/1 09760/1 10110/1	310 142 08820m
HEMSBY 03496	109mb 280 25 16800m 290 19 09160/5 09610/0 130mb 300 24 108mb 300 12 04560m 310 46 05300/0 09810/1	330 86 08750m
CRAWLEY 03774	056mb 020 04 15000m 280 33 P24900m 180 16 05910m 330 83 16800m 320 25 03730/0 05720/0 03140/1 10600/1 11110/1	330 126 08500m
CAMBORNE 03808	15600m 290 38 063mb 300 17 08170/0 09850/1 10640/1 11030/1	300 73 06930m 320 76 10130m 300 118 08870m 320 124 09240m
VALENTIA 03953	00300m 320 26 00600m 310 29 17100m 300 33 941mb 270 24 743mb 280 34 622mb 280 28 581mb 290 50 247mb 310 133	300 65 10030m 310 134 10000m
Ocean Weather Station 'I' 59°00'N 19°00'W	817mb 060 04 562mb 310 30 066mb 260 29 09300m 240 42 16500m 250 49 01670/2 04260/2 314mb 220 30 194mb 270 41 06000m 110 39 13500m 250 42 08000/2 11540/0	280 66 12100m 250 61 11780m
Ocean Weather Station 'J' 52°30'N 20°00'W	835mb 280 33 424mb 280 88 354mb 280 142 179mb 280 51 90Cmb 220 43 80Cmb 250 62 333mb 270 139 181mb 270 78 373mb 280 129 179mb 280 80 90Cmb 260 45 800mb 260 73 276mb 260 48	280 142 07800m 280 129 07530m
LARKHILL 03743		310 74 10200m

NOTES ON THE AEROLOGICAL SITUATION

The low which was over eastern Canada yesterday has moved eastnortheast and filled slowly. A strong southwesterly stream has extended over the west Atlantic and a ridge has amplified south of Iceland. A trough has moved quickly southeast to northern Italy whilst that over Italy yesterday has been displaced to the Balkans. A ridge has amplified over western Russia.

AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	46
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		98	-63.6	...	72	...	-73
		230	-58.2	350	...	-52	...

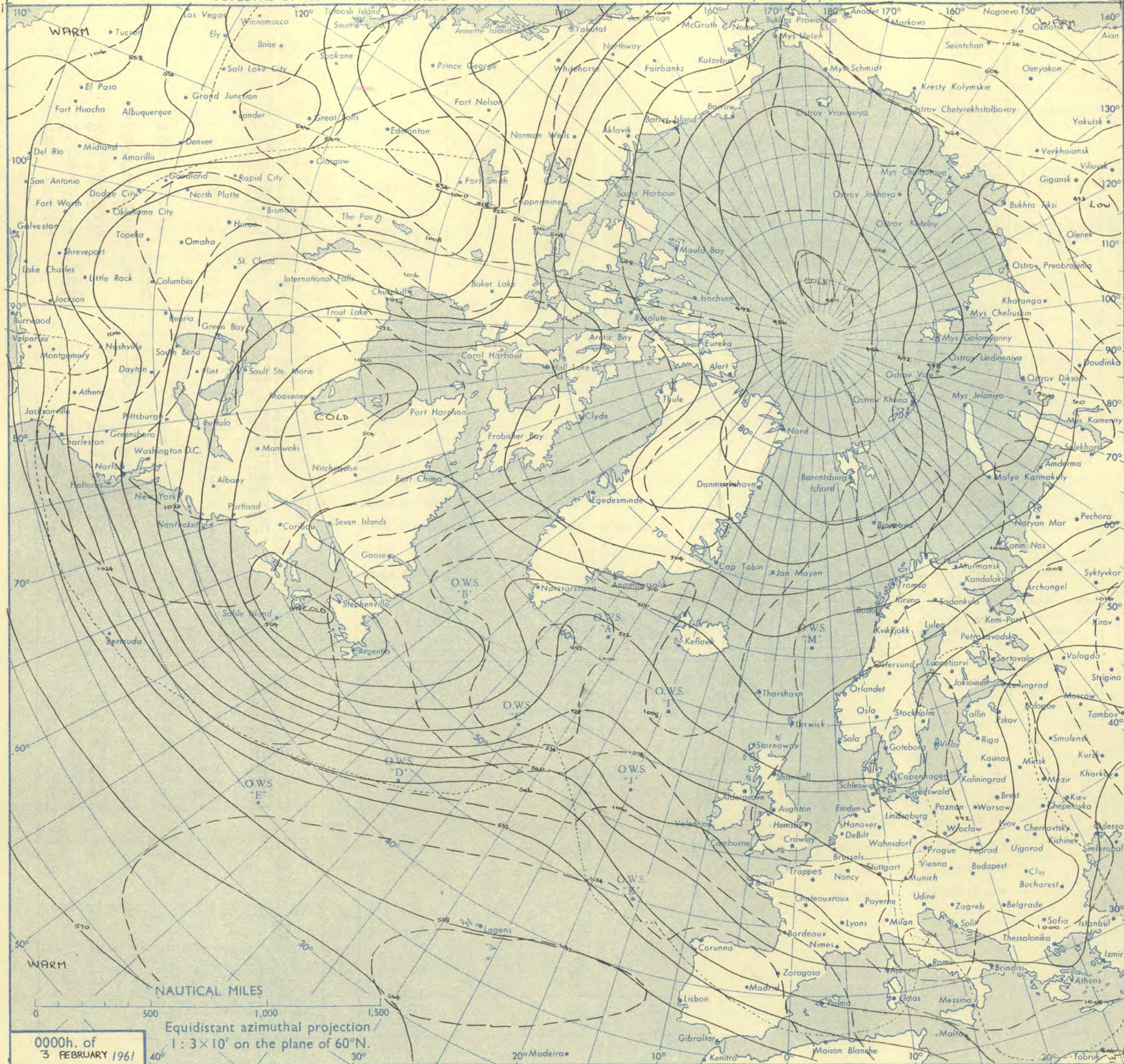
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

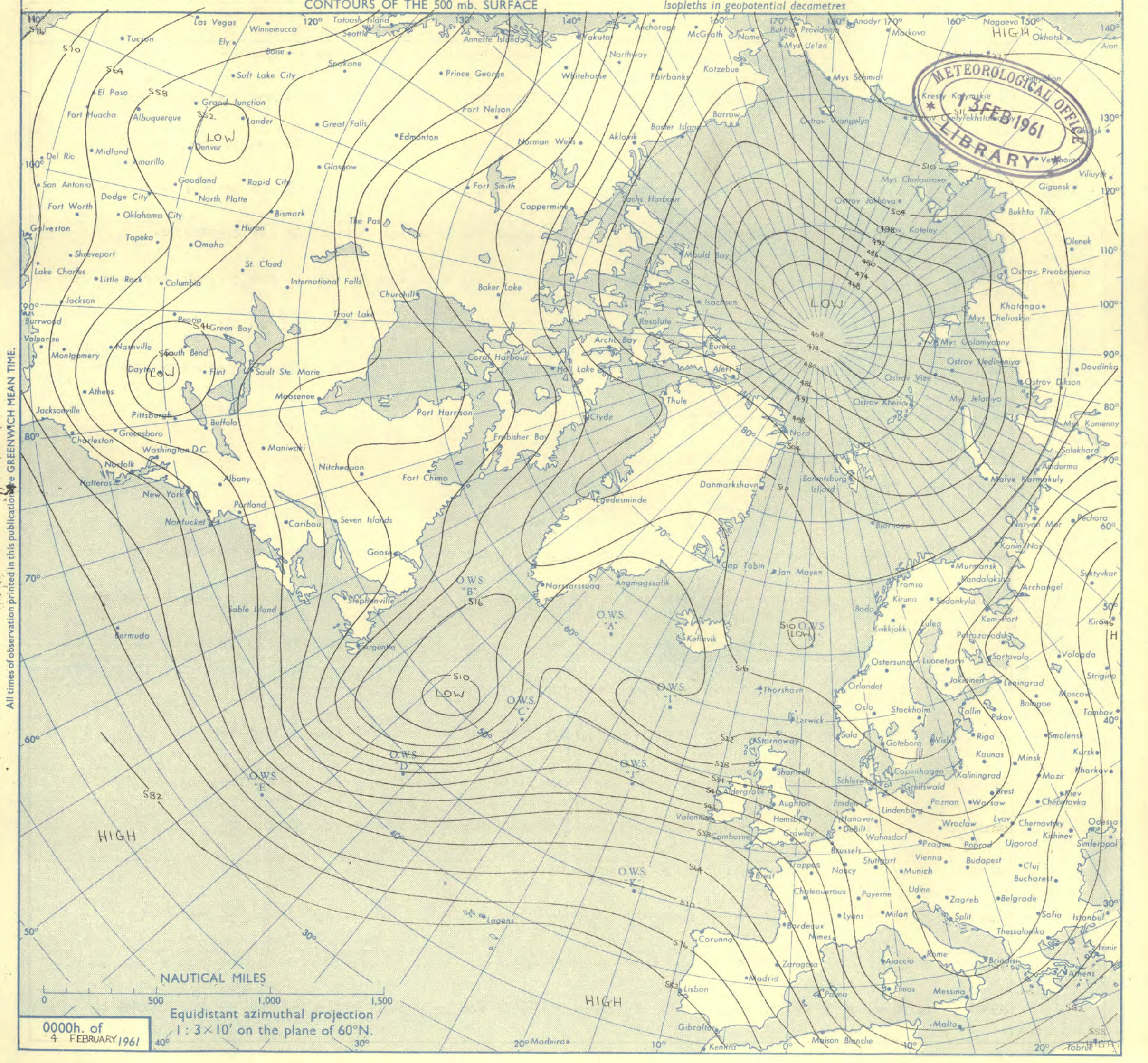
† Observations were made at Larkhill (Lat. $51^{\circ} 12' \text{ N.}$, Long. $01^{\circ} 48' \text{ W.}$) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

Thickness isopleths in geopotential decametres





All times of observation printed in this publication are GREENWICH MEAN TIME.

STATION	YYGGgg	SURFACE		1000mb		850mb		700mb		500mb		400mb		300mb		200mb		150mb		100mb		70mb		50mb		30mb	
		gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C
LERWICK 03005	032330	082	05- 06-	027	++ ++	1305	10- 14-	2772	21- 30-	5176	38- 49-	6676	48- ++	8539	55- ++	11167	49- 13056	48- 15727	49-								
	041130	082	01- 05-	015	++ ++	1293	10- 14-	2756	20- 26-	5170	37- 45-	6677	48- ++	8546	52- ++	11181	50- 13062	50- 15735	48- 18063	51- 20245	53-						
STORNOWAY 03026	032333	013	02 02-	005	++ ++	1294	07- 15-	2781	16- 21-	5234	33- 35-	6761	46- ++	8631	51- ++	11290	49- 13179	48- 15831	50- 18156	51-							
	041130	013	03 02 032	03 02	1322	07- 09-	2806	17- 36-	5245	34- 46-	6768	47- ++	8659	52- ++	11260	54- 13108	52- 15736	52- 18041	54- 20196	56-							
SHANWELL 03170	032330	005	00 01-	033	00 07-	1322	07- 13-	2807	15- 18-	5281	31- 34-	6821	44- ++	8708	53- ++	11342	50- 13229	48- 15885	50- 18207	52-							
	041130	005	02 00 005	02 00	1297	06- 07-	2789	15- 18-	5247	33- 39-	6773	43- ++	8697	48- ++	11344	50- 13230	47- 15887	51- 18202	52- 20381	51- 23759	47-						
ALDERGROVE 03917	032300	077	05 04 003	++ ++	1315	03- 05-	2828	11- 13-	5327	26- 39-	6909	36- 49-	8834	53- ++	11403	53- 13263	51- 15876	53-									
	041130	077	06 03 030	++ ++	1340	03- 06-	2847	12- 19-	5370	23- 38-	6963	36- 46-	8905	50- ++	11481	55- 13338	52- 15954	52- 18245	56- 20416	53-							
AUGHTON 03322	032330	056	03 02 042	++ ++	1348	01- 02-	2872	10- 11-	5384	28- 31-	6949	39- 44-	8865	53- ++	11437	52- 13294	51- 15926	54- 18222	54-								
	041130	056	07 03 031	++ ++	1341	04- 05-	2846	14- 20-	5344	24- 40-	6940	34- 47-	8880	51- ++	11480	50- 13339	55- 15933	48- 18232	57-								
HEMSBY 03496	032330	012	00 02-	096	02 02-	1393	05- 12-	2895	14- 20-	5374	30- 34-	6922	42- ++	8818	53- ++	11409	55- 13278	50- 15917	52-								
	041130	012	07 01 006-	++ ++	1303	04- 07-	2809	14- 20-	5281	27- 35-	6871	35- 44-	8819	48- ++	11445	50- 13324	49- 15972	52- 18271	54-								
CRAWLEY 03774	040023	144	03 01 106	++ ++	1413	03- 06-	2934	10- 13-	5459	25- 29-	7040	38- 43-	8967	52- ++	11533	54- 13380	51- 16003	53- 18299	55- 20461	53- 23756	51-						
	041130	144	07 00 058	++ ++	1370	04- 06-	2888	07- 25-	5448	21- 29-	7048	35- 42-	8983	52- ++	11532	58- 13378	51- 15992	52- 18294	52- 20476	52-							
CAMBORNE 03808	032330	088	09 08 123	09 07	1450	01 02-	2995	06- 10-	5555	22- 28-	7155	35- 42-	9103	50- ++	11639	63- 13461	55-										
	041130	088	10 09 118	09 07	1437	01 09-	2971	08- 10-	5521	23- 29-	7126	34- 37-	9081	49- ++	11612	65- 13415	58- 15953	60-									
VALENTIA 03953	040000	014	09 07 079	09 07	1405	00 01-	2941	06- 08-	5510	21- 25-	7120	33- 38-	9070	50- ++	11620	62- +++++	++ 16040	55-									
	041130	014	09 06 100	08 04	1419	00 03-	2962	06- 11-	5520	22- 30-	7140	30- 39-	9120	46- ++	11690	64- +++++	++ 16090	56-									
Ocean Weather Station 'I' 59°00'N 19°00'W	040100		06 04 075-	++ ++	1232	04- 05-	2733	15- 18-	5190	33- 37-	6720	46- ++	8600	51- ++	11220	52- 13080	52-										
	041200		07 05 010	07 05	1315	04- 07-	2813	15- 22-	5270	30- 39-	6830	40- 47-	8730	55- ++	11280	54- 13130	57- 15720	55- 18020	52-								
Ocean Weather Station 'J' 52°30'N 20°00'W	040001		08 03 090	07 01	1395	02- 10-	2923	07- 15-	5480	21- 29-	7080	35- 44-	9010	52- ++	11540	61- 13360	55- 15930	56- 18210	55- 20350	54-							
	041200		05 04 061	04 03	1380	01 03-	2922	04- 13-	5490	21- 30-	7090	33- 42-	9050	50- ++	11580	63- 13390	56- 15980	53- 18280	52- 20460	++							

STATION	ww N _h C _L hC _M C _H	PRESSURE			TROPOPAUSE mb m °C
		MSL	Surf.	0°C level	
LERWICK 03005	02 11400	003 993 993	981 01- 04- 977 ++ 06- 763 ++ 21- 728 ++ 27- 679 23- 33- 492 39- 50- 430 46- 371 51- 327 53- 306 56- 162	48- 100 49- 085 52- 080 51-	306 08410 56-
	02 28400	002 992 992	976 01- 06- 754 19- 22- 736 18- 22- 681 21- 28- 474 40- 47- 439 44- 326 55- 305 52- 255 53- 206 50- 100	48- 051 54- 047 50- 035 50-	326 07990 55-
STORNOWAY 03026	03 8092+	001 999 956	988 ++ 04- 910 ++ 09- 754 ++ 22- 724 15- 23- 690 16- 20- 583 ++ 27- 445 ++ 43- 331 55- 269 49- 091 50-	058 53- 054 51-	331 07990 55-
	83 794++	004 002 967	990 ++ 01- 902 04- 06- 784 ++ 15- 768 13- 17- 758 12- 19- 738 ++ 28- 689 ++ 38- 624 24- 39- 563 ++ 38- 476 37- 50- 390 49- 369 49- 325 48- 285 54- 180 55- 131 51- 050 56- 034 54-		285 08970 54-
SHANWELL 03170	02 855++	004 004 958	988 02 05- 940 ++ 08- 875 ++ 08- 855 ++ 13- 796 ++ 18- 778 13- 19- 721 14- 17- 644 17- 20- 520 ++ 32- 458	++ 39- 448 38- 41- 377 47- 310 52- 291 53- 152 48- 100 50- 062 53-	310 08480 52-
	01 655++	001 000 959	838 07- 08- 813 08- 11- 744 13- 14- 651 19- 23- 576 25- 30- 450 40- 46- 430 43- 408 44- 381 42- 313 48-	263 49- 247 51- 161 50- 152 47- 100 51- 050 51- 030 47- Pressure doubtful above 200mb	247 09980 51-
ALDERGROVE 03917	61 464++	000 991 898	960 04 01 944 ++ 00 811 05- 07- 651 15- 17- 581 22- 29- 564 22- 31- 530 ++ 37- 444 31- 45- 396 37- 50-	318 50- 259 59- 238 60- 195 52- 168 53- 148 50- 117 56- 106 51- 092 56- 085 55-	259 09740 59- 117 14860 56- (092 16400 56-
	03 685++	003 994 900	865 ++ 03- 843 ++ 07- 820 05- 07- 770 ++ 10- 750 10- 14- 725 ++ 18- 703 11- 18- 675 ++ 23- 644 18- 23- 603 ++ 32- 587 15- 36- 570 16- 38- 366 40- 253 58- 232 60- 208 56- 173 52- 093 54- 084 52- 071 56- 058 51-	034 54-	232 10520 60- 071 18180 56-
AUGHTON 03322	63 8042+	005 998 901	851 01- 02- 621 15- 18- 453 33- 37- 390 40- 45- 252 61- 226 58- 212 51- 188 54- 124 50- 065 55-		252 09980 61-
	02 7652+	004 997 907	916 01 00 824 ++ 06- 784 ++ 12- 760 ++ 13- 738 11- 17- 722 ++ 16- 690 15- 22- 663 ++ 20- 623 ++ 25- 609 21- 28- 582 20- 32- 560 21- 35- 540 19- 34- 456 29- 43- 426 31- 44- 366 40- 256 58- 204 50- 134 58- 125 54-	114 56- 102 48- 091 49- 072 58- 063 52-	256 09900 58- (072 18070 58-
HEMSBY 03496	03 00906	012 010 942	995 02 02- 919 ++ 08- 887 03- 07- 800 07- 19- 732 12- 20- 690 ++ 21- 656 16- 26- 625 17- 25- 591 22- 28- 572 24- 28- 478 32- 36- 419 40- 44- 350 49- 280 55- 239 53- 216 57- 165 50- 095 53-		280 09250 55-
	02 11500	999 998 909	983 05 01 904 01- 03- 826 05- 09- 773 ++ 13- 752 09- 17- 727 ++ 16- 630 20- 24- 550 27- 33- 480 26- 36- 394 35- 44- 369 40- 48- 270 52- 210 53- 197 50- 096 52- 065 54-		270 09510 52-
CRAWLEY 03774	60 8092+	013 995 911	987 04 01 980 ++ 00 912 ++ 02- 843 03- 06- 709 09- 12- 478 27- 32- 434 33- 38- 379 ++ 45- 341 45- 246 62-	235 62- 215 53- 203 53- 176 57- 153 50- 109 53- 069 55- 030 51-	246 10220 62- 176 12350 57-
	02 58501	007 990 898	831 ++ 08- 794 08- 11- 778 06- 15- 732 ++ 22- 686 ++ 26- 663 07- 26- 551 17- 24- 519 19- 27- 458 28- 35- 441 29- 36- 367 ++ 46- 247 62- 148 51- 114 55- 097 51- 091 54- 054 50- 050 52- 042 48-		247 10210 62-
CAMBORNE 03808	61 863++	015 004 832	990 ++ 07 965 ++ 05 812 01- 04- 796 00 03- 578 15- 20- 360 40- 47- 226 65- 197 63- 192 58- 133 53- 108 56-		226 10900 65-
	02 563++	014 004 836	983 07 05 937 03 02 880 01 00 856 01 09- 848 01 09- 808 02- 10- 778 04- 06- 617 ++ 13- 590 14- 19- 570 ++ 21- 547 ++ 28- 495 24- 30- 457 26- 29- 353 40- 43- 211 69- 172 57- 130 61- 094 60-		211 11300 69- 130 14320 61-
VALENTIA 03953	25 724++	099 008 870	932 06 04 865 00 01- 809 03- 05- 785 02- 12- 740 04- 07- 686 07- 09- 661 08- 13- 580 12- 18- 481 23- 27- 393 33- 39- 331 44- 255 59- 237 60- 208 66- 192 58- 166 53- 116 55- 105 54- 094 56-		208 11400 66-
	02 854++	012 011 850	997 07 03 952 04 02 932 03 04- 915 03 06- 766 03- 06- 747 03- 06- 659 09- 15- 602 11- 22- 546 17- 35- 494 22- 29- 479 21- 27- 435 25- 32- 219 63- 203 64- 153 52- 109 57- 075 52- 048 51-		219 11100 63-
Ocean Weather Station 'I' 59°00'N 19°00'W	80 635++	991 991 913	955 03 00 858 04- 05- 745 11- 12- 681 ++ 19- 609 ++ 25- 443 40- 46- 372 50- 222 53- 115 52-		372 07200 50-
	03 62572	001 001 921	962 03 02- 913 ++ 02- 888 02- 04- 722 14- 19- 704 ++ 23- 660 ++ 24- 572 26- 32- 530 29- 36- 510 29- 38- 490 30- 41- 400 40- 47- 295 55- 254 61- 218 61- 194 51- 152 57- 127 54- 106 57- 092 52- 070 52-		254 09800 61- 152 13100 57-
Ocean Weather Station 'J' 52°30'N 20°00'W	15530	010 010 925	950 01 03- 895 01- 06- 842 02- 11- 794 04- 13- 730 05- 13- 654 08- 19- 568 17- 22- 369 40- 49- 256 61-	212 63- 187 58- 048 55-	256 10100 61-
	6547+	007 007 825	960 02 01- 895 03 00- 746 03- 09- 725 03- 10- 645 08- 20- 610 11- 21- 546 17- 26- 354 40- 48- 240 63- 214 66- 180 58- 123 55- 108 56- 092 54- 055 51-		214 11200 66-

STATION	YYGGg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	032330	T	330 09	+++ ++	270 05	290 04	280 07	270 12	290 22	290 31	290 43	300 34	280 41	280 39	280 30	270 37					
	040530	P	000 00	+++ ++	300 04	280 06	280 11	290 17	290 24	290 30	290 37	280 29	280 37	280 41	280 48	270 37	260 33	240 28			
	041130	T	300 08	+++ ++	320 16	310 17	300 21	290 21	290 23	290 28	290 33	300 33	290 38	290 42	280 42	270 38	260 40	250 30			
	041735	P	280 12	+++ ++	300 28	300 31	290 29	300 24	300 29	290 33	300 42	300 61	290 55	290 52	290 55	270 44					
STORNOWAY 03026	032333	T	120 10	+++ ++	100 13	120 16	120 16	110 13	200 19	230 17	240 20	270 48	280 54	280 52	280 49	270 45	260 32				
	040550	P	040 22	+++ ++	070 15	060 16	060 14	010 12	310 07	310 18	300 28	290 64	290 64	290 55	280 55	270 48					
	041130	T	030 17	+++ ++	060 14	060 16	020 15	350 17	310 19	310 31	300 43	300117	290 95	290 68	290 58	280 49	260 53	250 29			
	041730	P	040 08	+++ ++	050 07	340 04	310 11	300 12	290 32	290 49	290108	290148	290 81	290 71	290 63						
SHANWELL 03170	032330	T	000 00	+++ ++	190 13	190 16	190 16	200 17	240 36	260 43	250 46	280 87	280 73	290 59	290 57						
	040530	P	000 00	+++ ++	320 14	310 19	300 18	290 36	320 33	290 21	300 59	300 78	290 66	290 65	290 50						
	041130	T	360 07	+++ ++	030 09	030 09	350 11	320 16	320 23	320 26	300 57	310110	300 72	300 69	290 51	270 34	280 30	280 20			
	041730	P	000 00	+++ ++	020 05	030 05	290 08	300 18	310 33	310 71	300111	300138	300108	300 67	290 60	300 48					
ALDERGROVE 03917	032300	T	230 12	+++ ++	290 34	290 36	270 51	260 52	260 60	280 99	290112	290122	290117	280 76	290 54						
	040530	P	230 15	+++ ++	280 42	290 47	290 47	280 46	300 56	290120	290131	300127	290127	290 93	290 58						
	041130	T	280 20	+++ ++	300 37	300 39	300 41	300 46	300 84	300 93	300121	300117	300116	300 93							
	041730	P	240 08	+++ ++	290 18	300 24	290 25	290 37	300 52	290 66	290 92	290120	290117	300 90	290 65						
AUGHTON 03322	032330	T	150 13	+++ ++	240 40	250 47	270 47	270 43	280 56	290 67	290100	300119	300118	300 64	300 55	290 37	280 20				
	040530	P	290 20	+++ ++	300 42	300 45	290 46	280 53	290100	290116	300130	290112	290 99	290 93							
	041130	T	270 20	+++ ++	290 44	310 48	300 52	300 55	300 74	300110	300131	310127	290126								
	041730	P	260 11	+++ ++	290 26	310 28	310 30	310 33	310 69	310 78	310104	310124	310121	300 59							
HEMSBY 03496	032330	T	230 07	+++ ++	270 15	270 16	290 26	280 35	290 37	310 55	310 81	310130	310 96	310 88	310 45						
	040530	P	220 20	+++ ++	240 53	270 56	290 63	270 43	280 50	290102	300 99	310116	300108	300 84	300 53	310 34	300 23				
	041130	T	280 23	+++ ++	300 50	310 55	310 52	310 56	300 57	300111	310140	300124	310104	310 73	310 51						
	041730	P	330 14	+++ ++	320 34	320 37	320 37	330 40	330 53	320103	320128	320131	310125	320 97	320 65	300 37	270 38	360 41	020 05		
CRAWLEY 03774	032330	P	240 07	+++ ++	260 24	270 28	270 30	290 38	300 57	310 74	320100	320130	320104	310 57	320 41	290 31	290 15	260 06	210 11		
	040530	P	250 08	+++ ++	290 53	290 63	290 65	290 68	300 78	310 95	310103	310103	310 99	310 82	310 47	300 35					
	041130	T	300 20	+++ ++	300 34	310 41	300 57	300 76	300 88	300 90	310107	300110	300125	310 93	310 55	310 33					
	041730	P	280 08	+++ ++	310 36	320 41	310 45	310 72	320 73	310 80	320 96	310117	310126	310 79	320 39						
CAMBORNE 03808	032330	T	230 18	+++ ++	270 48	280 46	290 62	300 63	310 67	310 76	310 84	320 97	320 95	320 81							
	040530	P	270 24	+++ ++	290 42	290 48	290 53	290 58	300 62	300 68	290 82	300 95	300 95	300 59	300 59						
	041130	T	270 15	+++ ++	290 35	290 44	290 51	290 54	290 64	290 75	290 94	300 99	300109	300101							
	041730	P	250 13	+++ ++	280 21	290 28	300 45	290 53	290 61	300 68	300 67	300 79	300 96	300 79	290 53	290 46					
VALENTIA 03953	040000	T	290 14	290 22	+++ ++	280 50	+++ ++	280 72	+++ ++	280 83											
	041130	T	280 08	280 11	+++ ++	280 38	+++ ++	280 49	+++ ++	280 78	280 78	290 98									
Ocean Weather Station 'I' 59°00'N 19°00'W	040100	T	130 22	+++ ++	110 27	120 27	120 24	100 24	080 28	080 23	090 17	280 51	280 59	260 72	260 70						
	040600	P	090 30	+++ ++	100 27	100 27	110 24	100 25	070 06	140 02	270 90	280126	260 90	270 67	260 66	260 62					
	041200	T	110 30	+++ ++	110 28	110 27	130 22	140 22	170 08	250 32	260 92	250120	240125	250 80	250 66	250 68					
	041800	P	135 10	+++ ++	130 10	130 09	130 12	130 10	270 27	250 48	250 66	240117	240137	240 90	240 48	250 75					
Ocean Weather Station 'J' 52°30'N 20°00'W	040001	T	270 37	270 38	+++ ++	270 56	+++ ++	270 73	+++ ++	260 93	260107	260110	+++ ++	250104	240 54						
	040500	P	270 15	+++ ++	+++ ++	270 27	+++ ++	240 59	260 67	250 73	250 81	260115	+++ ++	260100	260 84	260 52	260 50				
	041200	T	110 14	110 14	+++ ++	220 47	+++ ++	240 47	+++ ++	250 70	250 97	250109	+++ ++	250 88	250 67						
	041700	T	180 20	+++ ++	+++ ++	220 33	+++ ++	230 55	230 59	240 74	240 90	250100	250110	250 93	250 83	250 52					
LARKHILL 03743																					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb m °C °C	700mb m °C °C	650mb m °C °C	600mb m °C °C	550mb m °C °C	500mb m °C °C
041203	53.5N 25.3N	000 992 900	061 05 05	003-	01- 01-	847 00 00	1302 02- 02-	1786 04- 04-	05- 05-	2835 07- ++	11- ++	4020 13- 21-	15- ++	5377 25- 25-
Cloud :— 8/8 Sc. 1200 to 2300 ft. 8/8 Sc. 4000 to 9000 ft. 6/8 As. 12000 to 15000 ft. 8/8 As. 17000 ft. to HNG. Inversion Levels :— 945 to 900mb - ½ C to 0°C. Isothermal Levels :—														
YYGGg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb m °C °C	700mb m °C °C	650mb m °C °C	600mb m °C °C	550mb m °C °C	500mb m °C °C
041318	57.3N 23.3W	002 994 941	061 03 00	015	01 04-	860 05- 05-	1308 07- 16-	1777 08- ++	11- 27-	2804 14- 22-	18- 23-	4956 22- 25-	25- 25-	5279 29- ++
Cloud :— 4/8 cu. 3000 to 4500 ft. 8/8 Sc. 5000 to 6000 ft. 8/8 As. 15000 ft. to HNG. Inversion Levels :— Isothermal Levels :—														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.											Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2			

STATION		MAX. WIND
LERWICK 03005	088mb 250 24 040mb 250 31 17100m 270 43	290 64 14650m
STORNOWAY 03026	345mb 260 17 061mb 260 34 08040m 290 47 16600m 270 48 04080/5 07550/0 07880/0 338mb 300 96 041mb 260 28 15500m 290 58 01590/5 05470/0 05870/0 06600/0 07010/0 07900/0 08280/0 09500/1 10030/1	290 69 10350m 300 119 08510m 290 155 08360m
SHANWELL 03170	333mb 260 59 115mb 300 45 15600m 290 37 06800/0 356mb 310 98 04750/0 05140/0 05990/0 07700/0 09470/1 10830/1 11270/1 12160/1	270 90 08590m 300 87 08420m 310 119 08580m 300 145 08820m
ALDERGROVE 03917	117mb 290 42 15100m 290 52 00470/0 04420/0 04820/0 11550/1 12300/1 12850/1 633mb 300 62 15600m 290 63 02900/0 06450/0 11000/1 12020/1	290 135 08750m 300 135 07200m 300 124 07600m 290 126 09340m
AUGHTON 03322	455mb 290 86 215mb 300 87 03770m 290 78 13500m 290 90 02470/0 03600/0 03950/0 04470/0 06710/0 207mb 300 102 13500m 300 63 03280/0 03700/0 07800/0 09250/0 10980/1 11420/1 11780/1	300 122 09580m 290 131 06920m 300 132 06570m 310 135 09580m
HEMSBY 03496	385mb 310 98 104mb 350 49 01650m 290 63 02000/1 04500/0 08500/0 12060/1 531mb 300 79 131mb 320 41 04500m 320 75 15300m 310 48 04070/0 04500/0 11650/1 12230/1 15580/1 19850/2	320 133 09210m 300 126 09930m 310 146 07400m 320 134 09270m
CRAWLEY 03774	10760m 330 79 07570/0 10760/1 12900m 310 62 088mb 310 30 02720/0 07990/0 10200/0 11600/1 12500/1	320 133 09200m 310 106 07100m 310 129 10300m 310 129 10430m
CAMBORNE 03808	13200m 300 50 09700/1 156mb 290 67 01880/0 05200/0 10250/0 11750/1	320 100 10220m 290 97 09110m 300 120 10890m 300 99 10480m
VALENTIA 03953	932mb 280 42 74cmb 280 68 580mb 280 80 481mb 280 87 915mb 280 25 747mb 290 42 602mb 280 62 479mb 280 83	280 96 06390m 290 126 10100m
Ocean Weather Station 'I' 59°00'N 19°00'W	381mb 080 15 347mb 310 15 119mb 260 67 06000m 260 22 06600m 270 59 18000m 260 57 05500/9 05820/3 06200/0 06640/0 09830/1 457mb 260 63 223mb 250 101 076mb 250 57 03600m 210 10 07800m 240 85 17700m 250 63 03650/2 04160/0 07360/0 08150/0 08750/0	270 90 12500m 280 135 09010m 240 132 09360m 240 144 10550m
Ocean Weather Station 'J' 52°30'N 20°00'W	654mb 260 71 350mb 260 102 269mb 260 116 156mb 240 42 132mb 240 73 900mb 280 24 800mb 250 34 820mb 240 56 229mb 250 108 137mb 250 60 900mb 210 30 800mb 220 37 092mb 250 50	260 116 09700m 250 109 09050m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

A low over the Great Lakes area is moving east and deepening. The low over the west Atlantic continues to move slowly east while the trough extending southwestwards is moving east rather quickly. The ridge over the eastern Atlantic is moving slowly east, and a minor trough south of Iceland is moving quickly eastsoutheast and filling. The major trough extending southwards over Scandinavia and central Europe to the central Mediterranean persists.

AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61·5)	...	...	...	...	...
60	18945	-60·1	-46	-71	309	24	26
100	15745	-58·1	-46	-69	304	17	25
150	13175	-55·3	-42	-72	311	18	25
200	11350	-56·7	-42	-70	318	20	35
300	8770	-52·7	-43	-61	322	21	46
400	6870	-41·4	-31	-56	315	17	42
500	5320	-30·1	-19	-43	308	13	35
700	2845	-13·7	-2	-23	292	7	26
850	1345	-5·7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60·4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51°12'N., Long. 01°48'W./Lat. 51°05'N., Long. 00°13'W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61·0)	...	...	...	...	...
60	19050	-60·1	-52	-73	308	18	25
100	15855	-58·1	-47	-71	307	20	28
150	13285	-55·5	-44	-70	310	25	34
200	11455	-56·9	-43	-72	313	27	41
300	8875	-52·2	-43	-61	315	28	52
400	6965	-39·9	-28	-54	309	23	44
500	5405	-28·2	-17	-41	306	18	35
700	2910	-11·2	2	-22	304	12	25
850	1395	-3·4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59·7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61·9)	...	...	...	...	(15)
60	19250	-64·4	-59	-73	270	28	31
100	16115	-62·3	-55	-69	270	49	52
150	13575	-56·8	-47	-66	270	66	69
200	11740	-55·7	-43	-68	270	71	77
300	9125	-47·2	-37	-56	270	58	71
400	7165	-33·6	-26	-46	270	45	56
500	5565	-22·0	-13	-33	270	36	45
700	3005	-5·0	6	-13	275	23	30
850	1455	3·7	21	-3	275	17	24
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
		mb.	°C	mb.	mb.	°C	°C
Upper		98	-63·6	...	72	...	-73
Lower		230	-58·2	350	...	-52	...

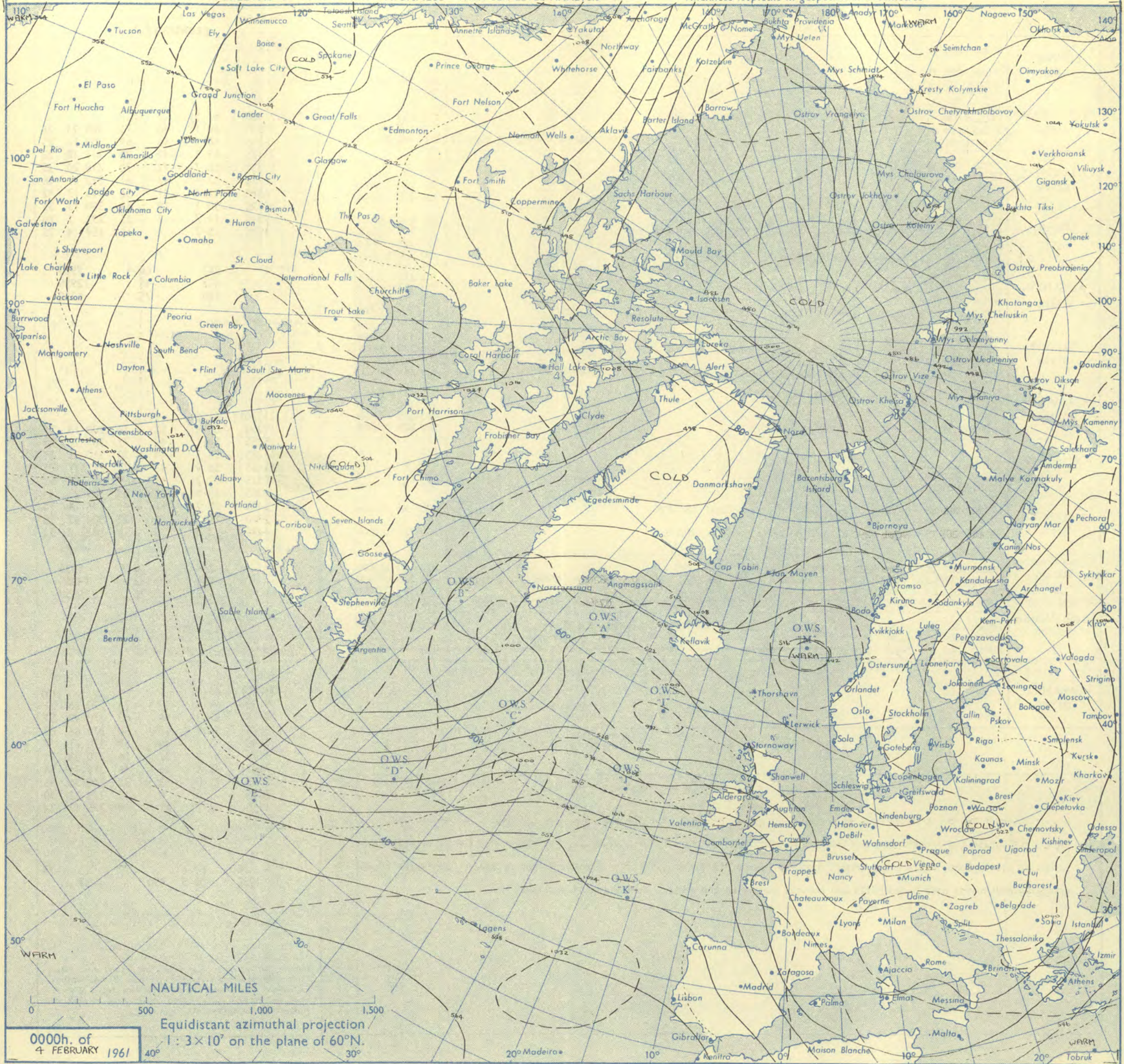
* V_R = Vector average wind. V_S = average wind speed.
Average winds are based on observations at Lerwick,
Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at
03, 15h.

† Observations were made at Larkhill (Lat. $51^{\circ} 12' \text{ N.}$, Long. $01^{\circ} 48' \text{ W.}$) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

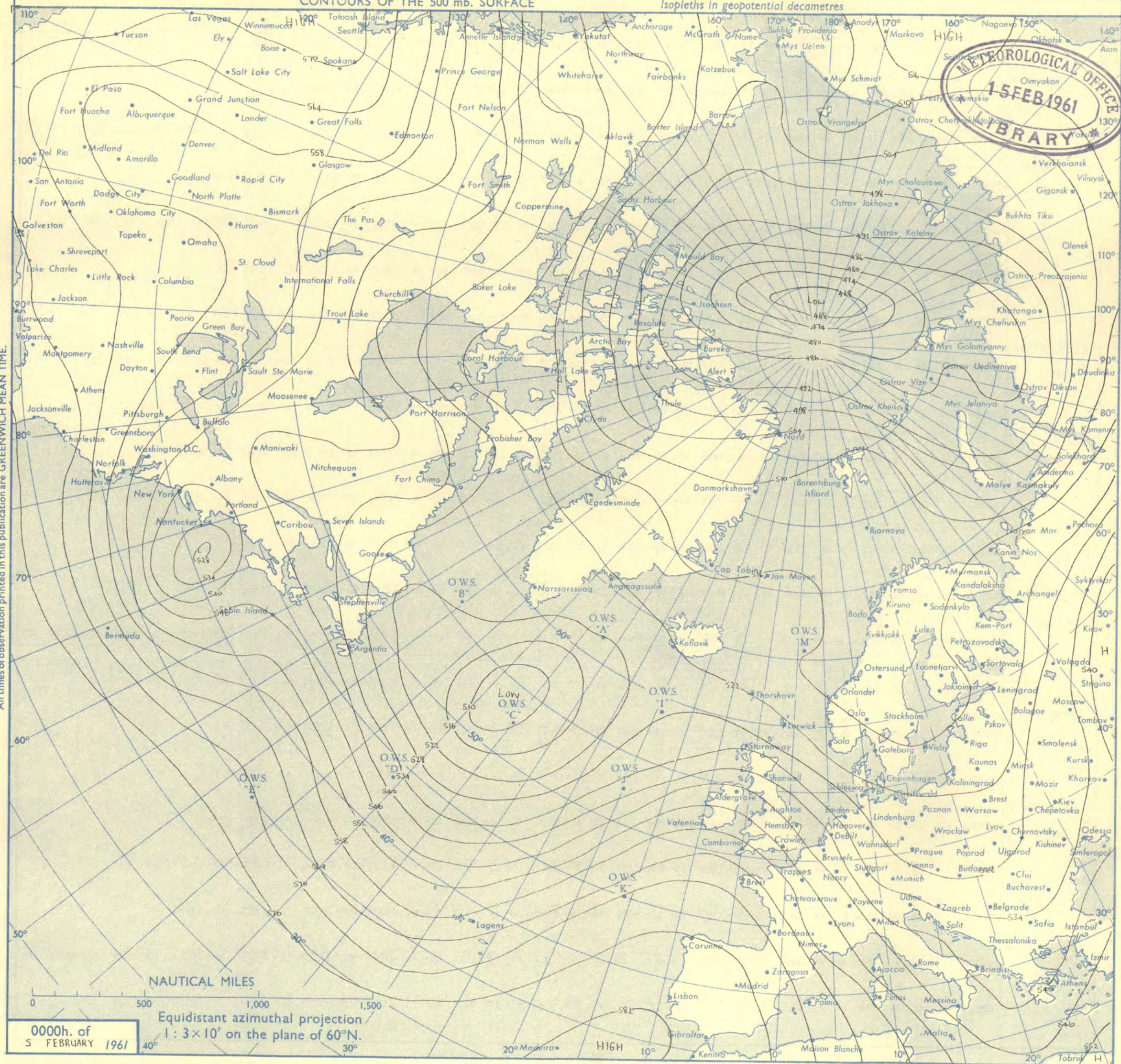
Thickness isopieths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C			
LERWICK 03005	042334	082	01	03-	046	++	++	1332	09-	12-	2803	20-	31-	5208	37-	47-	6728	45-	++	8626	52-	++	11207	56-	13039	55-	15642	55-	17960	51-										
	051136	082	02	03-	033	++	++	1324	07-	13-	2810	18-	32-	5294	26-	29-	6880	37-	41-	8805	52-	++	11342	60-	13158	55-														
STORNOWAY 03026	042330	013	02	01-	071	03	03-	1356	05-	14-	2852	15-	29-	5334	27-	35-	6905	38-	45-	8825	53-	++	11381	60-	13190	57-	15797	54-	18087	52-	20270	52-								
	051130	013	04	03	051-	++	++	1255	01	00	2805	05-	08-	5362	23-	28-	6958	35-	41-	8903	50-	++	11450	66-	13258	55-	15848	56-												
SHANWELL 03170	042330	005	01-	02-	082	01	03-	1374	06-	10-	2877	13-	24-	5385	25-	34-	6971	36-	43-	8905	51-	++	11469	58-	13296	50-	15933	53-	18238	50-	20427	51-								
	051130	005	03	02	005	03	02	1315	00	03-	2854	05-	09-	5418	21-	28-	7027	33-	42-	8981	50-	++	11519	66-	13344	57-	15943	52-												
ALDERGROVE 03917	042330	077	05	03	064	++	++	1372	03-	04-	2899	07-	08-	5454	21-	22-	7065	33-	35-	9021	49-	++	11577	67-	13354	56-	15923	58-	18186	57-										
	051130	077	09	07	006	++	++	1338	03	01-	2892	02-	14-	5473	21-	31-	7083	34-	43-	9033	50-	++	11580	67-	13367	55-	15951	57-	18214	54-	20369	55-								
AUGHTON 03322	042330	056	05	04	092	05	03	1406	02-	04-	2933	05-	13-	5485	20-	23-	7096	33-	36-	9051	50-	++	11594	61-	13395	57-	15995	54-	18268	52-	20429	53-								
	051130	056	10	08	047	++	++	1380	03	01	2937	02-	25-	5523	19-	35-	7143	32-	42-	9113	48-	++	11687	65-	13477	57-	16041	55-	18323	54-										
HEMSBY 03496	042330	012	03	02	099	04	03	1401	05-	07-	2911	11-	25-	5439	24-	35-	7034	34-	39-	8987	49-	++	11551	59-	13366	54-	15986	54-	18269	54-	20434	54-	23720	52-						
	051145	012	05	05	082	03	02	1393	02	02-	2942	06-	11-	5512	19-	23-	7122	33-	36-	9078	49-	++	11632	66-	13419	59-														
CRAWLEY 03774	042330	144	03	02	117	++	++	1433	01-	07-	2967	06-	11-	5521	22-	26-	7124	34-	38-	9080	48-	++	11630	65-	13435	55-	16025	57-	18295	54-										
	051130	144	10	09	098	++	++	1438	05	02	2993	04-	08-	5580	20-	32-	7193	33-	38-	9148	49-	++	11698	65-	13499	57-	16057	58-	18322	55-	20460	57-	23776	48-						
CAMBORNE 03808	042330	088	10	10	113	10	09	1456	04	02	3018	03-	13-	5615	19-	33-	7230	33-	42-	9190	49-	++	11713	67-	13509	58-	16057	56-	18313	58-										
	051130	088	11	09	116	11	09	1445	03	01-	3018	02-	21-	5612	19-	37-	7229	32-	44-	9189	49-	++	11735	65-	13542	57-	16083	60-												
VALENTIA 03953	042330	014	11	10	068	11	10	1413	05	04	2978	03-	04-	5570	19-	35-	7190	31-	41-	9170	45-	++	11760	66-	+++++	++	16100	57-												
	051140	014	11	10	042	11	10	1375	03	02	2930	03-	19-	5510	20-	33-	7120	32-	40-	9100	47-	++	11670	65-	+++++	++	16000	59-												
Ocean Weather Station 'I' 59°00'N 19°00'W	050000		07	05	061-	++	++	1251	03-	07-	2761	11-	13-	5270	27-	30-	6840	39-	42-	8750	53-	++	11310	57-	13140	56-	15720	57-	18010	52-										
	051200		05	03	240-	++	++	1067	05-	07-	2561	15-	17-	5010	31-	39-	6560	42-	++	8470	49-	++	11110	52-	12970	52-	15590	54-	17870	++										
Ocean Weather Station 'J' 52°30'N 20°00'W	050000		10	10	063-	++	++	1270	05	00	2844	03-	08-	5420	20-	24-	7040	31-	37-	9020	46-	++	11570	64-	13370	56-	15950	56-	18240	53-	20390	53-	23680	++						
	051200		06	01	032-	++	++	1270	05-	10-	2767	15-	23-	5230	26-	33-	6820	34-	40-	8770	48-	++	11410	50-	13290	49-	15930	51-	18250	50-	20440	49-								

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	03 43400	006 996 957	990 01 04- 957 00 05- 808 12- 15- 786 ++ 16- 742 ++ 24- 682 ++ 32- 589 30- 37- 487 38- 48- 401 45- 332 48-	241 58- 128 53- 100 55- 087 51- 060 53-		241	10020	58-
	02 6847+	004 994 950	980 02 04- 885 ++ 07- 843 08- 18- 831 07- 20- 672 ++ 35- 654 21- 32- 620 18- 22- 537 24- 27- 480 27- 31- 382 40- 44- 334 47- 240 62- 213 64- 204 60- 184 62- 168 54- 144 55- 135 52-		213	10930	64-	
STORNOWAY 03026	03 1567+	009 007 966	000 03 03- 884 06- 11- 859 05- 13- 820 ++ 18- 716 14- 29- 665 19- 31- 611 21- 32- 587 20- 32- 538 23- 33- 448 33- 40- 382 40- 46- 275 57- 260 56- 206 61- 180 57- 158 59- 139 52- 083 56- 080 53- 050 52-		206	11200	61-	
	53 474++	994 992 935 795	985 ++ 02 913 01- 02- 838 02 00 719 04- 07- 576 ++ 18- 475 25- 31- 407 34- 40- 363 40- 46- 284 53- 201 66- 193 66- 185 61- 168 55- 152 55- 134 58- 107 53- 101 56- 088 55-		201	11420	66-	
SHANWELL 03170	03 657++	010 010 944	998 02 03- 991 ++ 05- 939 00 05- 919 ++ 08- 847 06- 10- 775 08- 19- 720 12- 23- 617 18- 31- 540 21- 32- 488 ++ 34- 372 40- 46- 252 59- 228 60- 166 57- 141 48- 114 53- 100 53- 091 55- 071 50- 039 50-		252 10020 59- 114 15100 53-			
	61 854++	001 000 850	978 ++ 01- 955 01 02- 890 02 02- 711 05- 09- 610 11- 15- 570 14- 20- 444 27- 33- 405 32- 41- 355 40- 47- 255 59- 201 67- 182 56- 167 53- 149 57- 100 52- 096 52-		201 11490 67- 149 13390 57-			
ALDERGROVE 03917	60 363++	008 999 898	879 01- 01- 822 05- 06- 813 02- 03- 638 11- 12- 446 26- 28- 354 40- 43- 237 60- 186 69- 182 64- 155 56- 091 58- 081 54- 062 60- 052 50-		186 12020 69- 062 18950 60-			
	02 463++	000 991 789 741	960 ++ 06 925 06 04 837 ++ 01- 809 02 02- 773 01- 04- 759 01 06- 745 ++ 10- 720 ++ 12- 670 ++ 23- 554 14- 33- 498 ++ 31- 474 ++ 38- 386 36- 45- 357 40- 47- 305 49- 242 59- 232 60- 197 68- 189 69- 181 60- 144 55- 099 57- 094 59- 073 54- 042 55-		189 11930 69-			
AUGHTON 03322	02 855++	011 004 887	987 06 04 850 ++ 04- 827 04- 07- 796 04- 10- 773 06- 14- 747 05- 20- 719 06- 15- 711 04- 12- 613 14- 19- 573 ++ 19- 510 19- 22- 353 40- 43- 215 66- 192 60- 115 53- 102 54- 085 58- 071 52- 058 56- 050 53-		215 11120 66- 085 17040 58- 058 19480 56-			
	02 856++	006 999 771 734	983 ++ 06 864 03 02 847 04 02 810 02 00 771 00 06- 741 01 19- 593 10- 29- 538 16- 30- 484 20- 35- 405 31- 41- 342 40- 49- 264 55- 226 58- 188 57- 181 60- 153 57- 117 58- 089 53- 076 56- 060 51-		188 12040 67-			
HEMSBY 03496	10 756++	012 011 930	003 04 03 932 00 04- 868 ++ 05- 829 06- 09- 788 ++ 16- 767 07- 17- 678 13- 28- 580 16- 35- 505 24- 36- 457 28- 34- 356 40- 44- 231 62- 182 60- 137 51- 095 56- 051 51- 036 55- 030 52-		231 10660 62-			
	51 873++	010 009 784	000 03 02 909 01 02- 842 02 02- 752 02- 06- 720 04- 10- 678 07- 11- 645 08- 09- 626 ++ 11- 598 ++ 16- 523 19- 23- 499 20- 24- 421 ++ 35- 398 ++ 36- 351 40- 41- 250 58- 241 58- 193 68- 183 60- 120 58-		193 11850 68-			
CRAWLEY 03774	02 7093+	015 997 875	984 06 02 977 ++ 01- 861 01- 07- 845 01- 07- 775 04- 15- 753 ++ 17- 744 03- 16- 685 ++ 12- 507 21- 25- 385 36- 40- 353 ++ 45- 223 64- 209 66- 146 54- 117 54- 097 58- 066 54-		209 11350 66- 097 16200 58-			
	20 7611+	012 995 782	937 07 05 925 09 07 900 ++ 04 887 08 03 812 02 00 740 ++ 03- 710 ++ 06- 680 05- 14- 659 04- 17- 509 19- 32- 456 ++ 33- 356 ++ 35- 351 41- 232 62- 190 67- 183 59- 158 56- 138 59- 076 55- 049 57- 038 49- 030 48-		190 12010 67- 138 14030 59-			
CAMBORNE 03808	53 862++	015 003 771	976 09 06 952 09 07 807 02 00 749 02- 05- 737 01- 05- 679 ++ 20- 637 05- 26- 597 09- 33- 467 23- 35- 426 29- 39- 352 40- 47- 206 71- 192 61- 182 59- 123 61- 111 57- 071 58- 064 53-		206 11550 71-			
	02 754++	014 003 720	973 08 06 947 07 05 910 ++ 01 882 02 01 855 02 01 839 05 09- 830 07 10- 816 ++ 16- 798 06 16- 500 19- 37- 353 40- 49- 268 56- 210 66- 196 66- 170 55- 123 61- 080 57-		210 11440 66- 123 14790 61-			
VALENTIA 03953	60 863++	008 006 740	924 08 07 909 09 08 805 03 02 709 02- 03- 610 09- 11- 583 11- 20- 546 14- 31- 474 21- 37- 377 35- 43- 297 45- 202 65- 188 67- 171 59- 162 58- 103 57- 090 57-		188 12100 67-			
	51 863++	005 003 810	991 10 09 881 04 03 864 04 03 792 02- 03- 776 03- 06- 743 00 08- 670 04- 19- 537 17- 30- 484 21- 32- 286 50- 196 66- 165 57- 118 61- 086 57-		196 11800 66-			
Ocean Weather Station 'I' 59°00'N 19°00'W	02 755++	993 993 900	975 ++ 01 922 01 01- 867 02- 07- 830 ++ 07- 746 10- 13- 715 09- 11- 677 ++ 13- 390 40- 43- 316 52- 239 60- 118 58- 157 56- 092 57- 089 53- 080 52- 075 54- 065 50-		239 10200 60-			
	87 794++	971 971 920	942 02 01- 900 02- 03- 740 ++ 15- 642 ++ 21- 564 ++ 30- 541 30- 34- 509 31- 38- 422 40- 50- 343 48- 305 50- 295 49- 276 51- 168 54- 150 51- 075 56- 065 52-		305 08400 50-			
Ocean Weather Station 'J' 52°30'N 20°00'W	02 862++	992 992 740	920 07 07 840 05 00 725 01- 05- 690 03- 09- 635 07- 12- 370 34- 41- 342 40- 47- 333 42- 218 65- 206 66- 174 58- 126 57- 117 55- 062 53- 037 54-		210 11300 66-			
	01 68500	995 995 920	975 04 02- 800 08- 14- 735 12- 20- 630 20- 24- 544 28- 32- 430 31- 37- 356 40- 46- 277 53- 250 52- 220 49- 193 50- 038 50-		277 09300 53-			

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb	750mb	700mb	600mb	500mb	400mb	300mb	250mb	200mb	150mb	100mb	70mb	50mb	30mb	20mb	10mb
						1500m	2100m	3000m	4200m	5400m	7200m	9000m	10500m	12000m	14100m	15900m	18300m	20700m	23700m	26400m	30900m
LERWICK 03005	042334	T	280 17	+++ ++	300 26	300 21	300 19	310 21	300 51	300 51	300 69	300137	300103	290 62	290 72						
	050530	P	280 08	+++ ++	290 10	300 06	320 12	330 22	290 35	290 59	280 99	300127	290110	290 68	280 60	280 54	260 45				
	051136	T	160 16	+++ ++	160 19	150 16	150 14	170 15	250 32	270 51	270 74	280105	270104	280 91	280 65	P260 63					
	051730	P	130 27	+++ ++	150 44	160 42	180 37	230 36	240 48	250 51	260 79	260102	260105	260 63	260 69						
STORNOWAY 03026	042330	T	120 11	+++ ++	110 12	110 11	250 08	250 11	270 31	280 55	280 84	280114	280123	290 85	280 70	280 53	270 41				
	050555	P	160 11	+++ ++	150 16	150 20	160 16	200 23	250 55	260 64	270 72	270100	270118	270 80	270 63	270 59	270 48				
	051130	T	140 18	+++ ++	180 33	210 37	250 39	250 42	250 51	250 62	260 64	260 88	250109	260 63	270 68						
	051804	P	260 10	+++ ++	260 37	250 34	240 42	230 50	210 55	230 79	240107	240115	250112	250 88							
SHANWELL 03170	042330	T	040 04	+++ ++	150 05	190 08	260 09	270 16	290 30	290 60	290 89	300112	290133	300 83	290 58						
	050530	P	110 05	+++ ++	160 14	180 11	190 10	240 27	260 45	280 70	280 78	290 99	290115	280 77	290 65	280 51	280 37				
	051130	T	120 05	+++ ++	240 24	250 29	260 50	260 51	270 51	270 52	270 76	270 85	270 80	270 81	270 62						
	051730	P	180 02	+++ ++	240 47	240 50	240 54	240 48	250 51	260 62	260 77	260 72	260 81	260 88							
ALDERGROVE 03917	042330	T	190 12	+++ ++	220 14	210 05	260 22	270 28	270 44	270 67	280 78	290104	290104	280110	290 62	280 54	240 35				
	050530	P	150 17	+++ ++	260 41	260 50	260 52	270 52	270 49	270 59	270 66	270 74	280 76	280 92	280 55	280 50	280 36				
	051130	T	220 18	+++ ++	250 43	260 47	260 46	260 50	260 62	260 73	260 81	260 75	260 78	260 84	270 79						
	051730	P	180 17	+++ ++	230 51	230 55	240 57	240 59	240 82	240 83	240 81	240 90	250 88	240 96	250 80	240 45	240 45				
AUGHTON 03322	042330	T	210 03	+++ ++	250 10	260 15	290 27	290 29	290 38	290 73	290 83	300 95	310108	300 95	300 69	320 27	300 30				
	050530	P	130 11	+++ ++	200 23	240 39	260 38	290 53	290 61	290 67	290 61	300 74	290 84	300 87	290 60	300 51	270 33				
	051130	T	210 09	+++ ++	260 35	280 32	270 46	270 50	280 53	280 65	280 67	280 66	280 67	280 58	280 67	280 47					
	051730	P	190 12	+++ ++	240 33	260 42	250 44	250 47	250 53	260 65	260 75	260 77	260 66	260 76	260 61	260 55					
HEMSBY 03496	042330	T	000 00	+++ ++	290 10	300 15	310 25	310 25	310 45	310 66	310 88	310114	320128	320 99	310 68	310 42	320 36				
	050530	P	200 05	+++ ++	230 11	250 12	290 16	280 26	290 51	310 73	310 83	290 99	310105	310 74	310 63	310 34					
	051145	T	190 10	+++ ++	230 28	280 34	300 45	290 50	300 54	300 64	300 67	310 79	300 76	300 78	310 62						
	051730	P	220 12	+++ ++	270 32	280 30	290 40	290 43	290 44	290 55	290 64	290 76	290 71	290 73	290 59	290 49					
CRAWLEY 03774	042330	T	240 05	+++ ++	310 09	290 14	310 37	300 47	300 52	310 78	310 90	320100	310106	310104	310 59	310 27					
	050530	P	180 07	+++ ++	220 19	250 32	290 42	300 46	310 50	310 51	300 62	310 72	310 83	310 91	300 59	310 50					
	051130	T	240 08	+++ ++	290 39	280 36	270 30	280 35	300 52	300 65	300 68	300 66	300 63	300 64	310 63	300 37	310 18	P280 12	320 03	130 10	
	051730	P	210 07	+++ ++	270 29	270 34	270 38	270 35	280 41	280 52	280 63	290 63	290 67	290 67	290 48	290 42	290 23				
CAMBORNE 03808	042330	T	240 10	+++ ++	270 32	270 41	280 31	270 49	290 52	290 62	300 63	300 62	300 69	300 89	300 61	290 28	340 21				
	050530	P	240 17	+++ ++	270 39	270 36	280 30	280 37	290 53	290 62	290 71	290 63	290 61	280 61	300 67	280 43					
	051130	T	240 16	+++ ++	250 37	260 40	270 32	270 34	270 53	270 64	270 66	270 60	270 58	280 58	280 59	280 38					
	051730	P	220 20	+++ ++	240 39	250 39	240 46	240 45	250 54	250 60	250 74	250 72	260 79	250 67	270 56	260 43					
VALENTIA 03953	042330	T	220 17	230 23	+++ ++	260 43	+++ ++	270 42	+++ ++	270 63	270 70										
	051134	P	225 20	+++ ++	230 45	230 48	240 47	240 58	240 82	240 79	240 85	250 72	240 56								
Ocean Weather Station 'J' 59°00'N 19°00'W	050000	T	130 12	+++ ++	140 15	140 16	100 12	110 18	200 15	230 26	210 60	210 93	240114	230 72	230 54	230 66	240 60				
	050600	P	090 40	+++ ++	090 37	120 36	170 31	200 34	200 31	190 37	200 35	210 54	220 76	230 64	230 62	230 69					
	051200	T	220 50	+++ ++	230 60	230 60	220 55	220 55	210 30	200 11	140 21	190 40	200 35	210 50	220 56	240 60	250 63				
	051800	P	180 20	+++ ++	210 30	230 33	220 36	210 36	190 18	120 09	160 16	210 22	210 30	230 48	230 48						
Ocean Weather Station 'J' 52°30'N 20°00'W	050000	T	200 33	+++ ++	+++ ++	230 41	+++ ++	230 43	220 75	220 71	230 89	220 92	+++ ++	220107							
	050500	T	280 26	+++ ++	+++ ++	250 30	+++ ++	210 74	200 88	220103	220107	220121	+++ ++	220 99							
	051200	T	240 26	+++ ++	+++ ++	260 33	+++ ++	240 54	+++ ++	210115	210136	210168	+++ ++	220 89							
	051700	T	240 38	+++ ++	+++ ++	240 46	+++ ++	240 55	240 58	240 67	220 97	210123	+++ ++	200 89	200 80						
LARKHILL 03743																					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE	SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL Surf. 0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
Cloud :— Inversion Levels :— <div>Isothermal Levels :—</div>														
YYGGgg	POSITION	PRESSURE	SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL Surf. 0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
Cloud :— Inversion Levels :— <div>Isothermal Levels :—</div>														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.												Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2		

STATION		MAX. WIND
LERWICK 03005	P14700m 280 49 04870/0 06490/0 07250/0 10700/1 P16500m 260 46 15600m 270 68 02680/2 11150/1 11550/1	300 145 08760m 290 133 08800m 270 120 10530m 260 113 09630m
STORNOWAY 03026	057mb 280 36 19800m 270 57 02990/3 03720/0 04110/0 07960/0 08760/0 11160/1 11620/1 12260/1 175mb 250 86 04560/0 06810/0 05170/0 11050/1	280 129 10820m 260 128 10900m 250 115 11300m 240 122 09510m
SHANWELL 03170	123mb 290 47 05080/0 08230/0 11220/1 11830/1 12370/1 108mb 270 46	290 140 09580m 290 118 11020m 270 90 09700m 260 93 11800m
ALDERGROVE 03917	060mb 240 35 12250/1 14100/1 112mb 270 46 03930/0 14100/1 14900/1	290 118 12070m 270 102 12050m 260 99 12510m 240 99 11910m
AUGHTON 03322	548mb 290 56 054mb 260 37 19500m 290 21 073mb 280 36 07440/0 13080/1	300 120 10900m 300 102 11180m 280 80 12210m 260 81 12690m
HEMSBY 03496	17510m 290 40 03300/0 06850/0 08450/0 10760/0 11080/1 11620/0 13770/0 14320/1 12720/1 15710/1	320 140 10800m 320 119 11370m 310 84 08810m 290 77 08720m
CRAWLEY 03774	172mb 310 72 00820/2 01830/2 12350/1	310 112 11350m 310 96 11760m 300 75 07940m 290 71 12700m
CAMBORNE 03808	067mb 320 17 16200m 280 38 02910/0 05630/0 10700/1 12050/0 14300/1 080mb 290 32 17700m 270 27	300 94 08190m 290 75 06310m 270 75 08000m 260 80 10530m
VALENTIA 03953	909mb 260 41 610mb 270 57 377mb 270 68 00300m 220 38 00600m 220 45	270 70 07190m 230 86 06820m
Ocean Weather Station 'I' 59°00'N 19°00'W	460mb 220 30 450mb 220 30 219mb 240 90 02000m 150 30 10000m 210 64 19000m 240 59 01600/4 08570/0 324mb 190 43 287mb 190 32 04800m 150 09 06600m 140 06 07800m 190 17 04300/7 07400/3 09100/3	240 126 09750m 220 81 10760m 240 69 16790m
Ocean Weather Station 'J' 52°30'N 20°00'W	333mb 210 100 229mb 220 84 900mb 260 27 800mb 230 39 334mb 220 131 193mb 220 98 544mb 210 83 440mb 200 148 312mb 210 178 220mb 220 82 193mb 220 89 900mb 240 43 800mb 250 43 427mb 230 102 290mb 210 126 146mb 200 80	220 112 11750m 210 178 08400m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

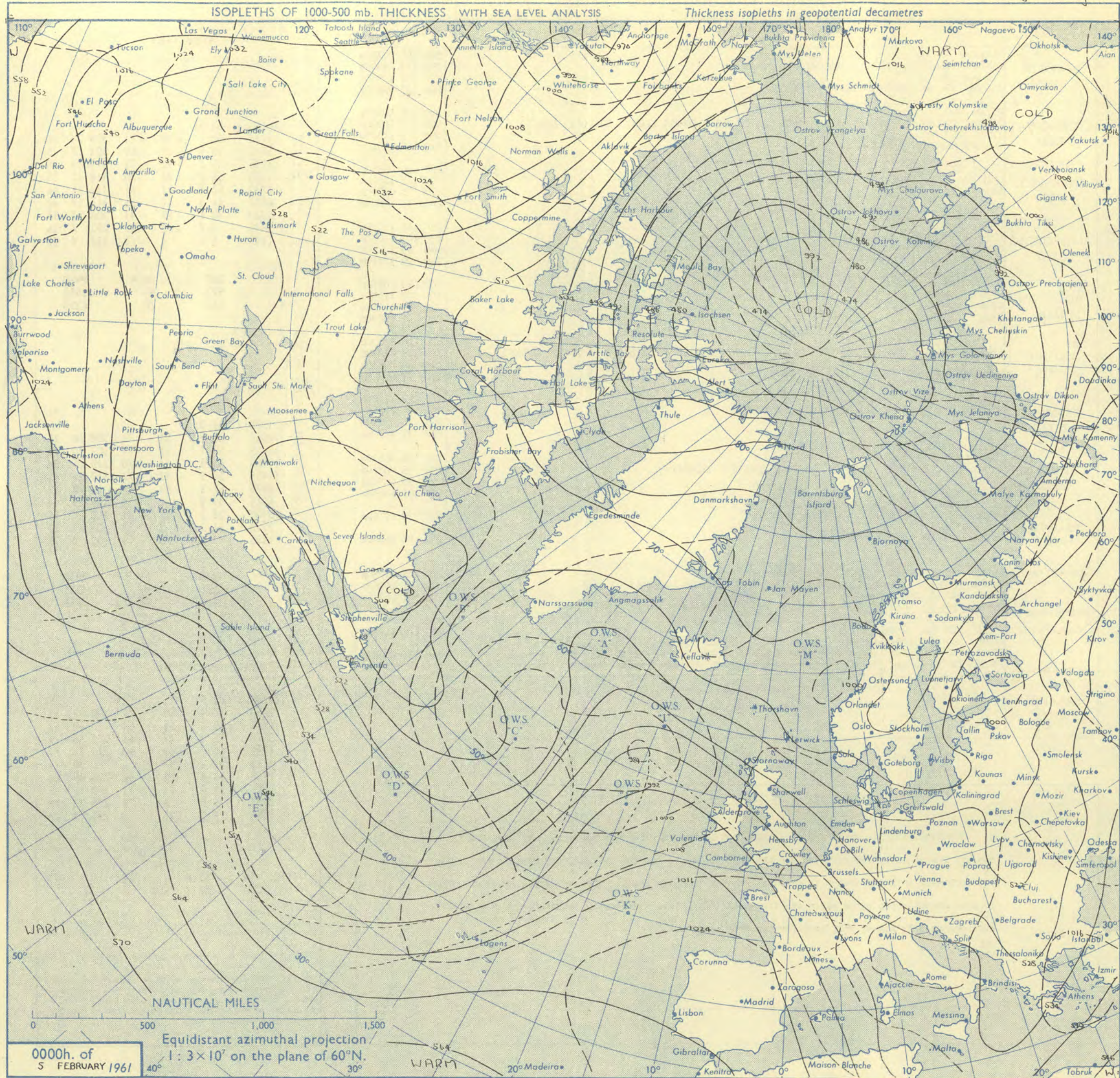
The deepening low which was over the Great Lakes yesterday has moved quickly east and is now off the coast of the northeastern American States. The low over mid-Atlantic is now moving eastnortheast with the trough to the south moving steadily east. The downstream ridge continues to move steadily eastwards while the trough extending from Scandinavia southwards to the central Mediterranean is making only very slow eastward progress.

AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	46
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropo- pause		Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

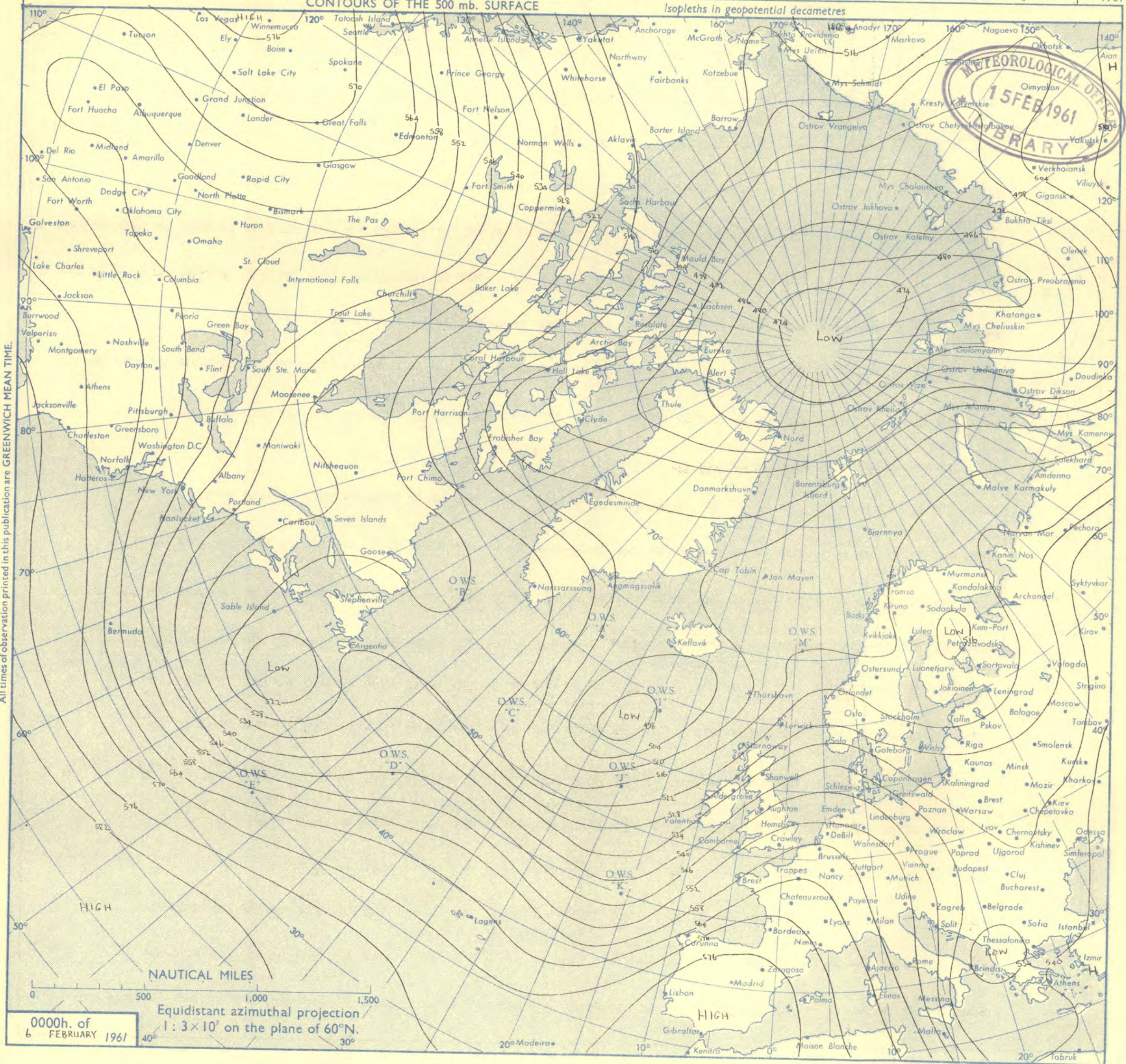


CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



All times of observation printed in this publication are GREENWICH MEAN TIME.

0000h. of
6 FEBRUARY 1961Equidistant azimuthal projection
1:3 x 10⁷ on the plane of 60°N.

STATION	YYGGgg	SURFACE	1000mb	850mb	700mb	500mb	400mb	300mb	200mb	150mb	100mb	70mb	50mb	30mb
		gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C
LERWICK 03005	052332	082 06 05	131- ++ ++	1187 02- 05-	2704 10- 12-	5228 25- 29-	6806 39- 44-	8721 52- ++	11262 59-	13069 57-	15656 57-	17923 56-		
	061210	082 05 03	160- ++ ++	1151 03- 08-	2659 13- 25-	5131 31- 36-	6686 40- 44-	8592 55- ++	11183 52-	13049 52-	15679 51-	17997 52-		
STORNOWAY 03026	052340	013 05 03	095- ++ ++	1218 03- 08-	2723 14- 17-	5197 29- 33-	6767 38- 41-	8691 51- ++	11273 54-	13117 54-	15716 56-	18011 53-		
	061340	013 05 03	182- ++ ++	1124 05- 07-	2623 15- 18-	5078 34- 44-	6600 47- ++	8485 49- ++	11159 48-	13045 50-	15699 48-	18031 53-		
SHANWELL 03170	052330	005 09 07	079- ++ ++	1251 02 00	2800 05- 14-	5357 23- 28-	6954 35- 41-	8905 49- ++	11459 65-	13252 57-	15817 57-	18100 52-	20277 55-	23529 55-
	061130	005 03 02	122- ++ ++	1180 04- 09-	2680 14- 17-	5153 30- 34-	6708 41- ++	8618 51- ++	11281 49-	13164 50-	15818 52-	18142 50-	20319 54-	23641 48-
ALDERGROVE 03917	052330	077 07 06	052- ++ ++	1268 00 04-	2798 07- 12-	5348 22- 28-	6952 34- 41-	8902 50- ++	11469 60-	13309 53-				
	061130	077 06 01	113- ++ ++	1198 02- 08-	2706 14- 19-	5170 33- 41-	6700 45- ++	8593 49- ++	11298 46-	13200 48-	15851 51-	18171 50-	20367 51-	
AUGHTON 03322	052330	056 11 07	000 +++ ++	1333 02 01-	2872 05- 22-	5451 21- 38-	7061 33- 45-	9020 49- ++	11587 59-	13411 54-	15980 56-	18294 55-		
	061140	056 05 02	064- ++ ++	1242 04- 07-	2749 13- 22-	5224 31- 41-	6775 41- ++	8717 44- ++	11430 45-	13334 49-				
HEMSBY 03496	052330	012 09 08	052 09 07	1382 00 01-	2945 02- 21-	5528 20- 37-	7146 31- 47-	9111 48- ++	11659 65-	13464 56-	16023 59-			
	061130	012 09 07	077- ++ ++	1252 01 00	2788 07- 16-	5340 22- 37-	6936 35- 50-	8887 49- ++	11489 52-	13369 50-	16000 54-	18282 54-		
CRAWLEY 03774	052330	144 09 08	082 ++ ++	1413 03 01	2970 01- 16-	5566 19- 34-	7188 31- 45-	9158 48- ++	11710 64-	13507 56-	16065 61-	18298 58-	20431 57-	
	061130	144 07 02	003 ++ ++	1317 02- 07-	2831 12- 17-	5332 26- 43-	6912 37- ++	8852 48- ++	11497 48-	13379 51-	15978 56-			
CAMBORNE 03808	052330	088 10 09	049 ++ ++	1382 02 01	2933 03- 24-	5517 21- 35-	7127 33- 40-	9083 49- ++	11647 58-	13473 56-	16035 59-	18290 54-		
	061130	088 06 03	035 ++ ++	1345 04- 08-	2845 14- 16-	5302 34- 38-	6826 47- ++	8739 46- ++	11442 48-	13336 50-	15965 53-	18249 54-		
VALENTIA 03953	052330	014 07 05	015- ++ ++	1300 02- 04-	2822 09- 12-	5370 22- 27-	6970 33- 38-	8930 49- ++	11520 54-	+++++ ++	15980 54-			
	061139	014 08 04	041- ++ ++	1283 01- 04-	7980 12- 18-	5280 31- 35-	6810 45- ++	8730 45- ++	11460 44-	+++++ ++	16050 70-			
Ocean Weather Station 'I' 59°00'N 19°00'W	060001		03 01- 263- ++ ++	1044 04- ++	2541 16- ++	4980 36- ++	6510 44- ++	8420 49- ++	11080 48-	12970 52-				
	061200		06 04 182- ++ ++	1130 03- 06-	2640 14- 17-	5090 33- 39-	6628 46- ++	8480 55- ++	11100 50-	12980 50-	15620 51-	17920 55-		
Ocean Weather Station 'J' 52°30'N 20°00'W	060001		05 04 086- ++ ++	1220 03- 03-	2726 14- 15-	5180 34- 38-	6710 46- ++	8620 44- ++	11330 45-	13250 46-	15920 49-	18260 48-		
	061200		07 04 011- ++ ++	1290 04- 04-	2790 13- 20-	5260 31- 43-	6790 44- ++	8680 50- ++	11340 47-	13230 49-	15880 50-	18210 51-	20390 49-	

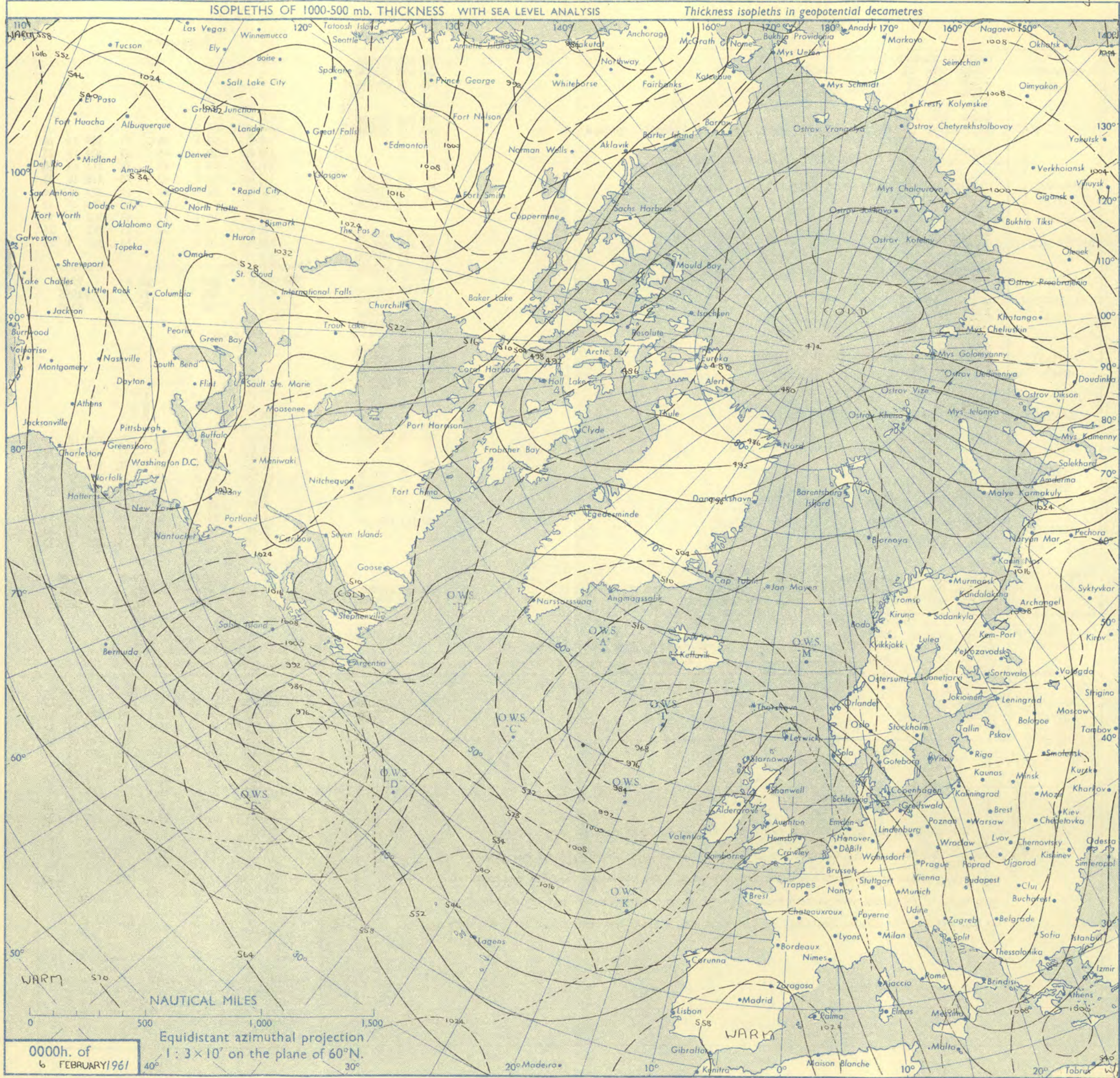
STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	21 6742+	984	974	877	967 06 03 910 ++ 00 888 ++ 03- 870 ++ 02- 835 ++ 08- 819 04- 07- 807 ++ 05- 761 ++ 09- 736 ++ 13- 698 10- 12- 623 ++ 18- 559 19- 22- 391 40- 45- 253 61- 219 64- 209 59- 171 60- 122 53- 103 57- 074 55- 058 58-	219	10700	64-
	02 38438	981	971	897	966 ++ 01 940 03 01 850 ++ 08- 837 ++ 11- 680 ++ 28- 662 16- 28- 604 22- 31- 518 ++ 34- 438 36- 40- 401 40- 44- 343 47- 302 55- 269 57- 209 52- 100 51- 070 52-	269	09280	57-
STORNOWAY 03026	02 5572+	988	987	888	978 ++ 01 946 ++ 01- 913 02 02- 890 ++ 03- 830 ++ 10- 722 13- 16- 535 ++ 29- 503 ++ 33- 486 31- 35- 469 30- 33- 385 40- 43- 279 55- 245 59- 193 53- 161 55- 136 53- 091 56- 079 51- 060 54- 054 53-	245	10000	59-
	80 734++	978	976	911	966 03 01 940 ++ 01- 900 ++ 02- 851 05- 07- 845 04- 06- 809 07- 12- 772 ++ 14- 642 ++ 33- 596 24- 33- 458 39- 50- 376 50- 277 49- 224 46- 193 49- 113 50- 102 48- 089 48- 071 53- 063 52-	376	07000	50-
SHANWELL 03170	60 855++	991	990	810	988 ++ 05 893 ++ 03 818 00 03- 780 ++ 03- 738 02- 10- 678 ++ 14- 524 ++ 25- 396 35- 41- 366 38- 45- 255 57- 197 66- 158 57- 100 57- 063 51- 050 55- 030 55-	197	11540	66-
	60 854++	985	985	925	961 ++ 02- 939 ++ 02- 860 ++ 09- 769 ++ 14- 611 21- 25- 468 33- 38- 409 40- 45- 365 46- 347 46- 295 51- 233 47- 139 50- 116 48- 100 52- 077 50- 049 55- 040 53- 036 48- 030 48-	295	08720	51-
ALDERGROVE 03917	60 464++	994	984	851	767 04- 10- 617 12- 16- 510 21- 26- 362 39- 45- 264 56- 218 61- 163 53- 110 54-	218	10900	61-
	02 684+5	989	977	906	970 05 01 897 01- 02- 873 01- 06- 830 ++ 12- 805 ++ 11- 780 ++ 14- 750 ++ 15- 736 ++ 19- 717 12- 18- 661 17- 21- 635 ++ 28- 568 ++ 37- 456 38- 46- 428 42- 338 50- 322 51- 240 43- 110 52- 059 50- 046 52- 042 58-	338	07800	50-
AUGHTON 03322	02 655++	000	993	811	920 06 04 725 06- 10- 707 ++ 22- 688 04- 24- 612 09- 31- 349 40- 50- 260 57- 216 62- 147 54- 113 59- 095 55- 085 47- 067 57- 060 58-	216	11090	62-
	21 6857+	992	985	910	943 02 01- 830 ++ 08- 742 10- 16- 677 15- 27- 518 30- 41- 492 31- 40- 412 40- 47- 403 41- 363 41- 335 45- 194 44- 135 52- 116 48-	335	07960	45-
HEMSBY 03496	02 854++	006	005	845 720	936 ++ 05 916 06 03 842 ++ 01- 828 01- 07- 806 05 08- 759 ++ 17- 679 04- 21- 479 23- 40- 379 34- 49- 242 61- 200 65- 157 56- 104 61- 089 55- 078 56-	200	11660	65-
	50 874++	991	989	830	840 ++ 00 771 03- 04- 746 ++ 06- 715 ++ 16- 662 09- 15- 649 10- 14- 566 ++ 20- 540 ++ 24- 533 19- 29- 492 23- 39- 392 37- 50- 384 36- 50- 309 48- 279 52- 221 59- 203 52- 138 48- 129 52- 075 56- 060 51-	221	10820	59-
CRAWLEY 03774	51 8042+	010	992	807 719	988 ++ 06 967 07 05 935 07 05 845 03 01 796 01- 04- 773 02 05- 768 ++ 07- 733 01 14- 574 11- 26- 432 28- 43- 429 28- 43- 375 ++ 48- 311 46- 224 64- 197 64- 145 55- 108 61- 085 61- 063 55- 050 57-	224	11010	64-
	01 48400	000	983	895	904 00 02- 853 ++ 07- 810 04- 09- 715 ++ 14- 655 16- 23- 639 16- 25- 629 ++ 29- 543 23- 40- 519 23- 41- 414 36- 49- 273 51- 230 52- 208 47- 089 57-	273	09450	51-
CAMBORNE 03808	50 862++	006	995	812 779	922 05 04 888 06 04 812 00 01- 796 01 15- 766 01- 19- 736 00 23- 683 04- 23- 643 06- 26- 538 16- 34- 428 29- 36- 354 40- 46- 256 58- 234 61- 214 61- 202 58- 140 55- 120 59- 084 59- 075 52- 062 58- 056 56-	234	10690	61-
	29 4946+	004	994	903	977 04 00 858 ++ 07- 814 ++ 08- 771 10- 11- 630 20- 22- 559 ++ 32- 448 40- 44- 390 48- 241 44- 212 48- 144 49- 130 53- 081 56- 066 54-	390	07000	48-
VALENTIA 03953	63 864++	998	996	900	936 03 02 896 00 01- 698 09- 12- 642 13- 16- 578 15- 18- 535 20- 24- 501 22- 27- 408 32- 37- 355 41- 315 46- 277 53- 224 59- 209 54- 199 54- 155 52- 126 54- 094 54-	224	10800	59-
	25 49500	996	993	870	964 08 02 846 02- 06- 783 06- 09- 757 08- 13- 743 08- 15- 590 22- 25- 508 30- 33- 430 42- 384 47- 365 45- 322 47- 219 42- 148 47- 139 43- 103 53- 098 51- 089 53- 082 51-	384	07000	47-
Ocean Weather Station 'I' 59°00'N 19°00'W	26 885++	968	968	905	939 02 749 12- 646 20- 591 26- 490 37- 468 38- 410 43- 332 48- 216 50- 205 48- 148 52- 125 49-	332	07800	48-
	27 735++	978	978	900	978 06 04 957 04 00 816 06- 08- 645 ++ 22- 621 21- 28- 448 40- 46- 362 52- 332 55- 299 56- 274 53- 238 53- 188 49- 109 52- 095 51-	332	17800	55-
Ocean Weather Station 'J' 52°30'N 20°00'W	69500	988	988	900	960 04 04 800 06- 09- 610 21- 26- 448 40- 43- 394 47- 360 47- 309 44- 068 50-	394	06700	47-
	52500	998	998	910	998 07 04 980 04 04 810 07- 07- 740 11- 15- 650 17- 27- 434 40- 50- 390 46- 350 50- 275 51-	350	17600	50-

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
061434	50.7°N 25.2°W	010 002 912	061 06 02-	079 03 04-	933 01- 06-	1387 03- 21-	1862 05- 42-	08- 48-	2899 12- 51-	15-50-	4063 17- 22-	19-27-	5416 23- 33-	
Cloud :— 2/8 Sc 3100 to 6000 ft 3/8 ci 14000 to 18000 ft 1/8 ci at 25000 ft														
Inversion Levels :— Isothermal Levels :—														
YGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :—														
Inversion Levels :— Isothermal Levels :—														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.												Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2		

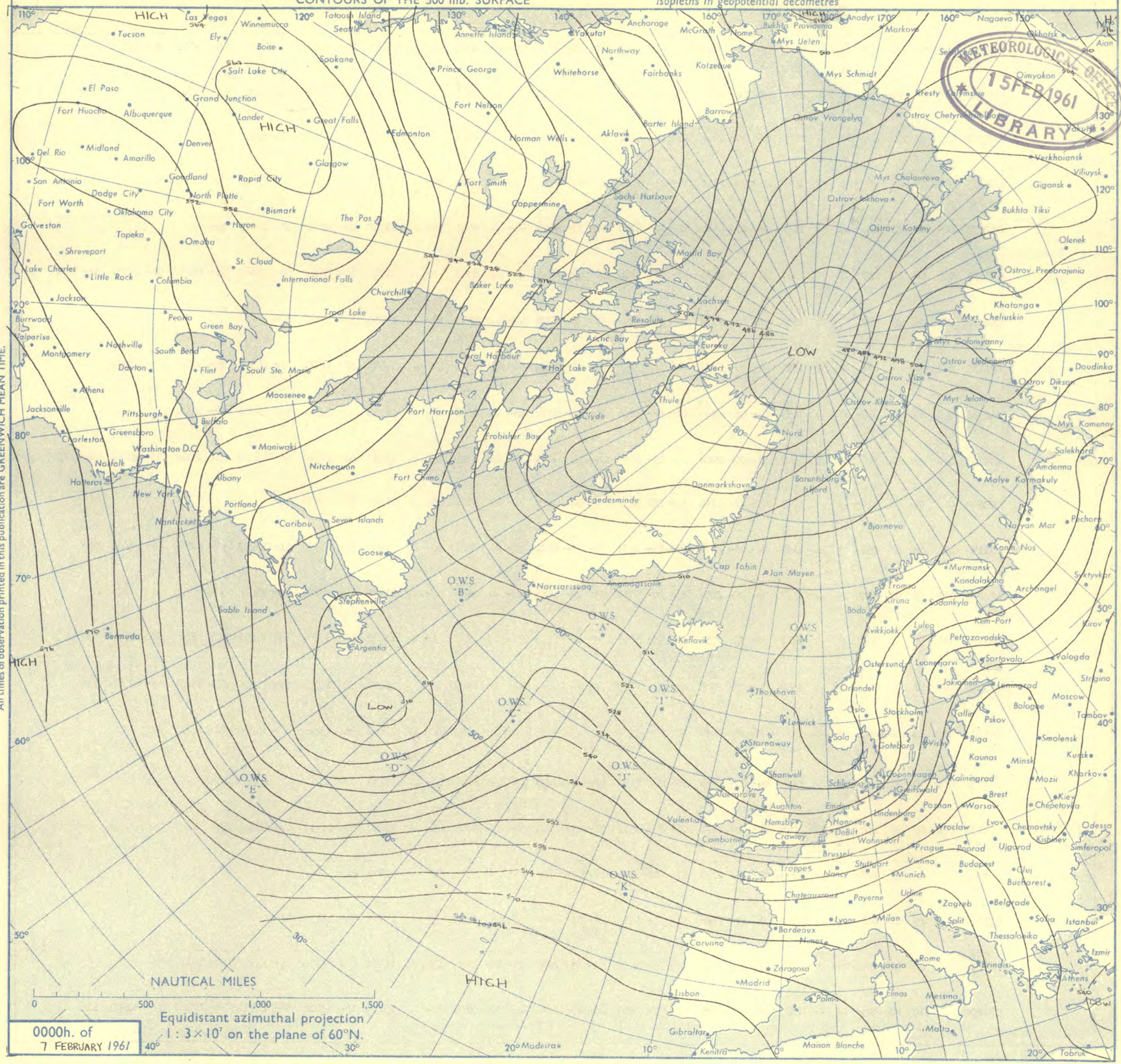
STATION		MAX. WIND
LERWICK 03005	03870/0 11100/1 11600/1 13500m 240 62 04080/0 06470/0 10100/1 080mb 240 50 17700m 250 59 05400/5 06150/0 06950/0	250 117 08950m 240 127 09320m 210 99 08600m
STORNOWAY 03026	449mb 230 108 17700m 240 52 04790/0 05180/0 05560/0 07400/0 08880/1 09480/1 13200m 260 37 03685/2	240 144 09890m 220 129 07450m
SHANWELL 03170	01220/5 01520/5 02720/0 03080/0 03350/0 14880/1 275mb 210 68 17120m 260 50 00340/0	240 154 09920m 230 102 09180m 190 77 08660m
ALDERGROVE 03917	265mb 230 102 04750/0 05550/0 10900/1 11920/1 16680/1 17330/1	230 108 09060m 210 114 09200m 250 63 18980m 260 66 10700m
AUGHTON 03322	00790/0 10660/1 126mb 240 67 20400m 250 40 10040/0 19310/5	240 99 09480m 230 114 09530m 240 72 14280m 260 62 14240m
HEMSBY 03496	085mb 280 28 16260m 270 45 07760/0 08550/0 15080/4 212mb 210 83	270 88 09500m 240 90 14160m 210 104 09180m 240 68 08520m
CRAWLEY 03774	053mb 300 12 14460/1 15700/1 00810/0 02590/1	250 79 08580m 230 81 10450m 220 108 09450m 250 75 08300m
CAMBORNE 03808	116mb 240 49 05350/0 073mb 260 29 20100m 240 22 07590/0 10700/1 13800/1	230 94 10240m 220 108 08920m 250 81 09700m 280 77 10480m
VALENTIA 03953	896mb 280 15 578mb 210 69 315mb 230 108 00300m 250 42 00600m 250 52 15300m 270 44	230 111 08120m
Ocean Weather Station 'I' 59°00'N 19°00'W	357mb 310 12 218mb 250 23 132mb 240 39 09600m 290 22 21600m 260 49 22500m 260 38 08260/5 21320/1 874mb 340 38 233mb 290 37 168mb 280 35 075mb 260 46 16100m 270 40	270 66 21080m 260 63 10920m
Ocean Weather Station 'J' 52°30'N 20°00'W	332mb 250 68 132mb 250 62 900mb 260 63 800mb 270 65 326mb 280 23 279mb 280 50 121mb 250 52 098mb 240 59 650mb 300 48 90mb 280 52 086mb 270 44 900mb 290 36 800mb 290 41 359mb 290 103 317mb 290 104 112mb 290 55	250 68 07950m
LARKHILL 03743	13110m 220 74 14020m 240 40	220 100 10000m 230 92 07500m

AVERAGE AND EXTREME VALUES 1951-55								
FEBRUARY								
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.								
Press. Level	Average		Extreme Temps.			Wind*		
	Height	Temp.	Max.	Min.		V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71		309	24 26	
100	15745	-58.1	-46	-69		304	17 25	
150	13175	-55.3	-42	-72		311	18 28	
200	11350	-56.7	-42	-70		318	20 35	
300	8770	-52.7	-43	-61		322	21 46	
400	6870	-41.4	-31	-56		315	17 42	
500	5320	-30.1	-19	-43		308	13 35	
700	2845	-13.7	-2	-23		292	7 26	
850	1345	-5.7	4	-13		257	4 25	
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)			
Average		267	-60.4		9960			
Max.		422	-43		12955			
Min.		160	-75		6250			
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)								
Press. Level	Average		Extreme Temps.			Wind*		
	Height	Temp.	Max.	Min.		V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73		308	18 25	
100	15855	-58.1	-47	-71		307	20 28	
150	13285	-55.5	-44	-70		310	25 34	
200	11455	-56.9	-43	-72		313	27 41	
300	8875	-52.2	-43	-61		315	28 52	
400	6965	-39.9	-28	-54		309	23 44	
500	5405	-28.2	-17	-41		306	18 35	
700	2910	-11.2	2	-22		304	12 25	
850	1395	-3.4	6	-15		302	8 22	
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)			
Average		264	-59.7		9835			
Max.		456	-42		14355			
Min.		126	-76		5850			
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.								
Press. Level	Average		Extreme Temps.			Wind*		
	Height	Temp.	Max.	Min.		V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73		270	28 31	
100	16115	-62.3	-55	-69		270	49 52	
150	13575	-56.8	-47	-66		270	66 69	
200	11740	-55.7	-43	-68		270	71 77	
300	9125	-47.2	-37	-56		270	58 71	
400	7165	-33.6	-26	-46		270	45 56	
500	5565	-22.0	-13	-33		270	36 45	
700	3005	-5.0	6	-13		275	23 30	
850	1455	3.7	21	-3		275	17 24	
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
		mb.	°C	mb.	mb.	°C	°C	
Upper		98	-63.6	...	72	...	-73	
Lower		230	-58.2	350	...	-52	...	
* V _R = Vector average wind. V _S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.								
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.								
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.								



CONTOURS OF THE 500 mb. SURFACE Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



NAUTICAL MILES

0 500 1,000 1,500

0000h. of 7 FEBRUARY 1961
Equidistant azimuthal projection
1 : 3 × 10⁷ on the plane of 60°N.

STATION	YYGGgg	SURFACE		1000mb		850mb		700mb		500mb		400mb		300mb		200mb		150mb		100mb		70mb		50mb		30mb							
		gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C						
LERWICK 03005	062335	082	03	01-	170-	++	++	1141	03-	10-	2647	13-	21-	5119	32-	40-	6659	43-	++	8544	53-	++	11183	49-	13066	50-	15729	48-	17195	50-	20267	51-	
	071131	082	04	03-	053-	++	++	1242	07-	12-	2728	15-	36-	5172	35-	++	6691	47-	++	8567	54-	++	11206	50-	13084	51-	15716	52-	18018	52-			
STORNOWAY 03026	062330	013	03	02	144-	++	++	1163	04-	07-	2666	14-	18-	5124	34-	42-	6642	48-	++	8508	52-	++	11143	50-	13026	49-	15667	51-					
	071135	013	05	02	019	05	02	1320	06-	10-	2811	16-	28-	5260	32-	47-	6798	43-	++	8689	54-	++	11271	53-	13133	52-	15718	56-	17989	54-	20128	59-	
SHANWELL 03170	062330	005	04	03	190-	++	++	1121	01-	03-	2640	12-	18-	5119	31-	37-	6659	44-	++	8564	50-	++	11242	47-	13142	48-	15810	50-					
	071130	005	08	02	017	07	01	1326	04-	06-	2835	13-	22-	5304	32-	46-	6845	43-	++	8743	53-	++	11369	50-	13247	52-	15867	51-	18167	56-	20321	55-	23629	50-
ALDERGROVE 03917	062330	077	05	03	077	++	++	1235	03-	04-	2738	14-	16	5199	34-	38-	6718	47-	++	8610	51-	++	11260	50-	13139	50-							
	071130	077	06	02	089	06	02	1391	04-	08-	2897	12-	31-	5399	25-	42-	6989	36-	47-	8910	54-	++	11445	57-	13278	55-	15867	55-	18143	53-	20278	57-	
AUGHTON 03322	062330	056	07	03	064-	++	++	1253	02-	03-	2763	12-	14-	5244	31-	35-	6778	45-	++	8668	48-	++	11351	49-	13231	50-	15918	48-	18211	57-			
	071145	056	08	04	103	07	03	1409	04-	07-	2908	14-	19-	5399	27-	44-	6985	35-	48-	8919	52-	++	11515	52-	13382	53-	16019	51-	18312	52-	20481	56-	23757	55-
HEMSBY 03496	070530	012	06	01	022-	++	++	1287	03-	07-	2794	14-	25-	5255	34-	40-	6775	48-	++	8670	48-	++	11345	47-	13236	49-							
	071130	012	08	02	054	07	01	1364	04-	08-	2870	13-	19-	5338	32-	41-	6884	41-	++	8804	50-	++	11443	50-	13320	51-	15959	53-	18254	56-	20407	56-	
CRAWLEY 03774	062330	144	06	01	037	++	++	1347	04-	08-	2851	13-	24-	5317	33-	43-	6843	47-	++	8716	52-	++	11388	47-	13283	49-	15918	53-					
	071130	144	08	00	118	++	++	1431	03-	12-	2934	15-	26-	5403	30-	42-	6975	38-	49-	8891	54-	++	11431	58-	13264	55-	15851	57-	18103	58-	20212	59-	
CAMBORNE 03808	062355	088	08	03	086	++	++	1398	04-	08-	2905	14-	33-	5359	33-	++	6895	42-	++	8816	48-	++	11454	52-	13322	51-	15935	55-	18207	55-	20345	57-	
	071130	088	09	04	169	08	03	1482	03-	09-	3003	10-	25-	5539	22-	27-	7135	35-	39-	9079	50-	++	11630	65-	13440	57-	15990	59-	18238	55-			
VALENTIA 03953	062334	014	09	03	062	08	02	1375	04-	07-	2873	15-	26-	5340	32-	45-	6910	36-	49-	8840	52-	++	11430	53-	++++	++	15890	56-					
	071130	014	09	06	132	08	04	1445	02-	08-	2971	09-	15-	5530	22-	27-	7130	34-	38-	9080	48-	++	11650	64-	++++	++	16020	57-					
Ocean Weather Station 'I' 59°00'N 19°00'W	070000		05	03	028-	++	++	1269	07-	10-	2753	17-	21-	5200	34-	43-	6730	45-	++	8610	55-	++	11900	52-									
	071200		07	01-	008-	++	++	1299	06-	07-	2806	12-	33-	5310	27-	31-	6880	38-	41-	8790	55-	++	11330	56-	13170	54-							
Ocean Weather Station 'J' 52°30'N 20°00'W	070000		08	02	098	06	02-	1410	03-	19-	2917	10-	36-	5430	22-	34-	7030	33-	44-	8980	49-	++	11560	60-	13370	55-	15960	55-	18240	55-	20380	56-	
	071200		10	10	025-	++	++	1320	05	05	2885	03-	03-	5460	22-	29-	7070	32-	37-	9030	48-	++	11600	63-	13410	56-	15990	56-	18250	57-	20380	56-	

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 00901	979	969	893	957 04 00 935 ++ 02- 865 02- 09- 782 08- 13- 768 ++ 14- 750 ++ 18- 703 ++ 21- 686 ++ 20- 671 15- 22- 573 ++ 30- 503 32- 40- 452 37- 43- 341 51- 305 54- 279 51- 100 48- 030 52-	305	08430	54-
	02 784++	993	983	933	982 ++ 04- 915 ++ 12- 828 09- 14- 768 14- 17- 743 11- 25- 722 ++ 36- 712 14- 35- 533 32- 50- 400 47- 289 55- 262 51- 227 49- 100 52- 076 54- 072 52- 060 55-	289	08810	55-
STORNOWAY 03026	02 10940	982	981	901	969 04 01 953 ++ 00 904 ++ 02- 794 ++ 09- 755 ++ 13- 634 20- 26- 590 ++ 29- 577 25- 31- 455 40- 48- 377 51- 365 51- 338 53- 151 49- 100 51-	338	07720	53-
	25 624++	002	001	923	884 ++ 08- 854 06- 10- 763 ++ 13- 722 ++ 23- 706 ++ 28- 574 27- 40- 501 32- 47- 473 ++ 49- 432 40- 274 58- 153 51- 122 58- 103 56- 065 54- 047 60- 043 58-	274	09250	58-
SHANWELL 03170	21 856++	977	976	899	960 05 01 907 ++ 01- 878 02- 03- 853 ++ 02- 844 01- 04- 832 ++ 07- 582 23- 32- 567 ++ 30- 532 ++ 36- 502 ++ 37- 430 40- 46- 395 45- 384 44- 316 49- 301 50- 270 46- 100 50- 079 51-	316	08210	49-
	02 28500	002	001	902	885 ++ 03- 846 04- 06- 816 ++ 07 740 10- 17- 660 ++ 26- 636 ++ 26- 573 25- 35- 480 34- 48- 389 44- 277 56- 235 49- 198 50- 175 48- 153 53- 100 51- 086 52- 077 55- 063 57- 055 53- 051 56- 038 49- 035 55- 030 50-	277	09260	56-
ALDERGROVE 03917	25 39400	989	981	888	950 ++ 00 890 00 02- 810 06- 07- 682 15- 17- 644 19- 23- 566 26- 31- 452 ++ 43- 405 47- 358 47- 317 51- 139 50-	317	08270	51-
	03 684+2	011	002	922	916 01- 02- 883 ++ 05- 855 ++ 07- 829 ++ 12- 810 ++ 10- 774 ++ 10- 770 09- 10- 758 08- 13- 732 ++ 29- 696 12- 31- 633 18- 39- 620 17- 40- 580 21- 45- 532 21- 45- 469 28- 41- 433 31- 41- 384 39- 50- 272 59- 229 65- 213 57- 110 54- 077 57- 071 53- 060 58- 040 57-	229	10600	65-
AUGHTON 03322	02 855++	992	985	885	807 05- 06- 572 ++ 25- 550 25- 28- 532 ++ 31- 437 40- 44- 377 48- 340 50- 292 47- 227 47- 168 51- 114 45- 071 58- 061 51- 053 51-	340	07840	50-
	02 685++	013	006	903	999 06 02 889 01- 05- 835 06- 08- 755 ++ 13- 696 14- 19- 683 ++ 23- 645 17- 30- 511 27- 43- 464 28- 45- 386 37- 50- 301 52- 259 58- 237 54- 176 50- 149 53- 112 49- 077 57- 070 52- 065 51- 053 56- 044 57- 039 51- 036 54- 030 55-	259	09840	58-
HEMSBY 03496	02 12570	997	996	909	890 01- 03- 873 01- 05- 816 ++ 09- 709 13- 24- 661 17- 29- 607 22- 27- 559 26- 32- 450 40- 45- 387 49- 377 47- 156 49- 124 53-	387	07000	49-
	02 21500	007	005	911	911 00 03- 870 ++ 05- 745 10- 16- 494 32- 42- 422 38- 49- 297 50- 263 52- 118 49- 101 53- 064 57- 060 52- 053 56- 045 57-	263	09650	52-
CRAWLEY 03774	02 14506	005	987	909	911 00 02- 874 ++ 03- 798 ++ 14- 779 ++ 13- 680 ++ 31- 668 16- 31- 531 ++ 38- 451 ++ 50- 364 52- 263 50- 213 46- 089 55-	364	07460	52-
	02 31500	014	997	905	878 03- 09- 864 02- 10- 810 ++ 16- 691 16- 27- 511 30- 42- 463 30- 43- 409 ++ 49- 263 61- 245 64- 231 58- 210 60- 134 53- 091 57- 052 60- 042 56-	245	10150	64-
CAMBORNE 03808	25 29463	010	000	900	873 ++ 04- 859 04- 05- 829 04- 13- 794 ++ 21- 642 20- 41- 518 32- 50- 417 42- 247 52- 151 51- 076 57- 070 55- 050 57-	247	10110	52-
	03 1157+	021	010	905	996 ++ 03 910 ++ 03- 860 03- 07- 836 03- 12- 767 06- 22- 745 06- 23- 652 14- 29- 632 12- 21- 615 ++ 19- 590 16- 19- 566 18- 21- 509 21- 25- 465 ++ 32- 366 40- 43- 267 56- 205 65- 175 56- 145 59- 129 57- 105 59- 079 58- 071 55- 064 61- 057 58-	205	11480	65-
VALENTIA 03953	02 32500	008	006	900	827 06- 08- 790 09- 12- 687 16- 27- 641 18- 30- 504 31- 44- 460 33- 46- 435 33- 46- 379 38- 50- 323 48- 270 57- 248 57- 190 52- 131 52- 119 56- 100 56- 092 54- 081 54-	270	09500	57-
	02 58756	016	014	900	922 01 01- 880 01- 02- 859 03- 07- 810 02- 17- 742 07- 27- 722 08- 19- 668 10- 11- 633 11- 14- 561 15- 21- 475 25- 28- 376 36- 40- 267 55- 200 64- 179 59- 090 57- 063 59-	200	11700	64-
Ocean Weather Station 'I' 59°00'N 19°00'W	01 15500	997	997	940	974 ++ 01- 954 01 02- 811 10- 12- 781 11- 13- 716 16- 18- 686 ++ 25- 676 17- 26- 629 22- 32- 445 40- 50- 419 43- 344 51- 291 56- 267 55- 231 57- 200 52-	291	08000	56-
	03 2567+	999	999	914	853 ++ 06- 830 07- 09- 824 ++ 09- 806 05- 15- 797 ++ 23- 762 08- 30- 641 17- 38- 631 18- 30- 615 17- 22- 585 ++ 22- 510 26- 30- 388 40- 43- 283 59- 260 61- 224 61- 212 57- 189 55- 106 55-	260	09700	61-
Ocean Weather Station 'J' 52°30'N 20°00'W	01 55602	011	011	910	940 02 04- 900 01- 08- 840 03- 19- 815 04- 22- 770 07- 30- 735 08- 33- 690 11- 37- 600 19- 44- 574 20- 41- 540 20- 34- 482 24- 35- 380 37- ++ 358 40- 50- 275 54- 250 55- 240 56- 203 60- 141 55- 135 54- 104 56- 044 56-	203	14900	60-
	50 4722+	996	996	740	802 03 03 694 03- 03- 658 05- 12- 595 11- 22- 435 27- 33- 355 40- 45- 312 47- 255 53- 222 61- 199 63- 163 56- 119 55- 047 57-	199	11600	63-

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb	750mb	700mb	600mb	500mb	400mb	300mb	250mb	200mb	150mb	100mb	70mb	50mb	30mb	20mb	10mb
					900m	1500m	2100m	3000m	4200m	5400m	7200m	9000m	10500m	12000m	14100m	15900m	18300m	20700m	23700m	26400m	30900m
LERWICK 03005	062335	T	300 10	+++ ++	310 10	300 06	290 07	310 12	310 14	310 15	280 14	260 17	250 24	260 31	270 27	260 33					
	070530	P	310 12	+++ ++	320 25	310 25	300 24	290 30	290 31	280 35	280 37	290 30	290 34	280 30	270 39	270 37					
	071131	T	280 22	+++ ++	300 33	300 34	310 40	310 42	300 50	290 37	290 35	300 45	290 46	290 44	290 43	280 43	250 41				
	071730	P	290 19	+++ ++	300 34	290 38	300 33	300 40	300 34	310 44	310 56	300 62	300 56	290 50	290 51	280 46	270 40				
STORNOWAY 03026	062330	T	320 16	+++ ++	360 25	360 25	350 23	340 25	330 25	330 26	310 29	290 35	290 37	290 45	280 39						
	070530	P	300 13	+++ ++	310 29	320 29	310 31	310 32	310 33	310 35	300 52	310 67	300 62	300 64	290 48	280 37					
	071135	T	310 13	+++ ++	290 38	290 37	270 31	280 30	280 42	290 65	290 82	300 94	300 76	290 64	290 50	290 51					
	071730	P	250 09	+++ ++	290 16	290 24	280 31	300 38	300 45	300 48	290 74	290 83	300 83	290 62	280 52	280 57	290 52				
SHANWELL 03170	062330	T	280 08	+++ ++	280 18	290 20	290 20	290 20	290 20	290 30	280 34	280 37	280 37	280 38	270 47	270 37					
	070530	P	290 05	+++ ++	330 27	320 39	330 34	330 33	330 33	310 40	300 44	300 64	300 43	300 46	280 53	280 32	270 44				
	071130	T	230 10	+++ ++	280 22	290 33	300 33	300 30	300 32	300 47	300 69	300 101	300 84	300 59	290 44	290 49	P270 37	290 28			
	071730	P	270 09	+++ ++	280 25	280 30	280 38	290 46	300 50	300 57	300 88	300 118	300 87	310 73	290 59						
ALDERGROVE 03917	062330	T	270 20	+++ ++	300 52	300 60	310 54	310 59	300 52	290 51	290 48	300 58	300 57	280 62	300 54						
	070530	P	280 23	+++ ++	310 50	310 54	310 59	300 62	310 51	310 57	310 95	310 152	310 80								
	071130	T	240 12	+++ ++	290 28	300 34	280 33	290 34	300 39	310 72	300 96	300 117	300 97	300 78	300 60	290 45	270 27	260 33			
	071730	P	180 09	+++ ++	250 24	260 25	270 28	270 33	290 41	290 55	290 72	280 114	290 159	310 90	290 60						
AUGHTON 03322	062330	T	230 35	+++ ++	270 67	270 66	280 61	280 59	280 54	280 54	280 49	290 54	290 45	290 42	270 68	270 20	260 48				
	070545	P	280 32	+++ ++	300 62	300 58	310 60	310 59	310 58	310 57	310 88	310 91	310 68	310 41	300 53						
	071145	T	270 22	+++ ++	310 33	310 33	300 40	300 41	300 48	310 64	310 107	320 111	310 104	310 71	300 50						
	071730	P	270 12	+++ ++	280 27	280 30	290 36	300 43	300 47	300 61	310 81	300 114	310 140	310 72	300 56	300 47	300 17	270 36			
HEMSBY 03496	062330	P	230 24	+++ ++	260 58	270 56	270 53	270 54	270 52	250 54	250 51	280 58	260 52	270 46	260 47						
	070530	T	260 25	+++ ++	280 59	290 64	300 55	300 51	290 49	280 41	290 46										
	071130	T	280 20	+++ ++	300 43	310 44	310 47	310 47	310 59	310 78	320 93	310 83	310 55	300 54	290 35	260 32					
	071730	P	270 14	+++ ++	300 41	310 39	300 28	300 35	300 37	320 56	310 95	310 122	320 106	320 54	320 45						
CRAWLEY 03774	062330	T	230 18	+++ ++	270 43	270 49	270 56	270 57	280 57	270 58	270 58	280 63	280 59	280 54	280 47						
	070530	P	280 19	+++ ++	290 46	290 53	300 54	300 49	310 60	310 64	310 63	310 80	300 75	300 62	300 38	290 43					
	071130	T	290 12	+++ ++	300 35	310 43	310 49	310 47	310 49	310 69	310 95	320 98	320 109	310 80	310 60						
	071730	P	270 15	+++ ++	290 29	290 30	300 35	310 41	320 52	310 61	320 76	310 119	320 136	330 94							
CAMBORNE 03808	062355	T	270 30	+++ ++	280 47	290 50	290 52	290 49	290 56	280 69	290 88	300 107	300 89	290 68	290 61	280 39					
	070530	P	280 25	+++ ++	290 36	300 42	300 41	300 42	300 60	310 90	310 107	310 107	310 97	310 88							
	071130	T	270 15	+++ ++	290 26	290 28	300 39	300 38	300 57	300 60	300 74	300 97	310 126	310 123							
	071730	P	240 12	+++ ++	270 29	260 26	250 23	280 27	270 27	280 48	300 74	310 97	300 114	330 89	330 69						
VALENTIA 03953	062337	P	270 20	+++ ++	290 43	290 47	300 46	300 47	290 50	300 75	310 132										
	071130	T	220 11	220 14	+++ ++	240 26	+++ ++	250 38	+++ ++	280 42	280 61	280 95	+++ ++	290 151							
Ocean Weather Station 'I' 59°00'N 19°00'W	070000	T	290 30	+++ ++	280 32	270 31	270 29	280 34	280 38	290 38	290 46	280 73	280 62								
	070600	P	270 20	+++ ++	290 24	280 24	280 26	280 30	280 26	280 36	270 74	280 84	260 73	280 57	270 55	250 61					
	071200	T	150 16	+++ ++	160 19	160 24	190 15	190 17	230 25	250 36	260 48	240 36	240 49	250 59	260 62						
	071800	P	135 30	+++ ++	140 39	180 42	210 30	220 30	210 36	210 27	200 21	190 30	250 72	250 65							
Ocean Weather Station 'J' 52°30'N 20°00'W	070000	T	280 22	280 23	+++ ++	270 30	+++ ++	270 33	+++ ++	280 74	280 94	280 106	280 110	280 83	280 55						
	070500	T	180 25	+++ ++	+++ ++	190 32	+++ ++	240 61	240 53	250 54	250 68	250 88	+++ ++	260 135							
	071200	T	200 29	+++ ++	+++ ++	230 37	+++ ++	230 49	+++ ++	250 78	220 83	230 111	+++ ++	240 130	240 59	240 48					
	071700	T	210 22	+++ ++	+++ ++	220 43	+++ ++	220 40	240 60	240 81	240 101	240 130	+++ ++	240 112	240 110						
LARKHILL 03743	070735	P	270 23	+++ ++	300 42	300 51	310 51	310 52	300 54	310 60	320 112	320 122	310 95	310 62							
	071130	P	290 22	+++ ++	300 32	310 38	310 39	300 38	310 54	320 79	310 90	310 119	310 110	320 83	310 43						

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE		SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf. 0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
071240	54.5°N 28.9°W	983	976 838	061 07 04	140-	07 03	725 05 01	1186 01 02-	1673 03- 06-	06- 11-	2719 09- 14-	12- 32-	3895 17- 29-	22- 42-	5236 28- 42-
Cloud :— 1/8 cu. HNG to 6000 ft. 3/8 sc. 4000 to 5000 ft.															
Inversion Levels :— Isothermal Levels :—															
YYGGgg	POSITION	PRESSURE		SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf. 0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
Cloud :—															
Inversion Levels :— Isothermal Levels :—															
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STATION		MAX. WIND
LERWICK 03005	P16800m 260 48	300 68 09500m
STORNOWAY 03026	104mb 270 42 11490/1 095mb 290 50 05950/0 11590/1	310 70 08810m 300 100 09180m 290 95 09840m
SHANWELL 03170	086mb 260 38 00800/0 06130/0 08920/0 09790/1 10240/1	300 67 08800m 310 108 08620m 290 128 09150m
ALDERGROVE 03917	06660/0 07160/0 07570/0 09570/1 554mb 300 55 043mb 260 36 05120/0 05690/1 07070/0 07890/0 08790/0 09580/0 10000/0 11500/1	290 66 11350m 310 160 09220m 300 120 08810m 290 168 11140m
AUGHTON 03322	091mb 270 10 060mb 260 43 15600m 290 58 06990/0 07460/1 08230/0 10210/1 10630/1 437mb 310 95 224mb 310 88 11400m 310 103 06670/0 08660/0 09510/0 10140/0 10600/0 11260/1 11810/1 16840/1	260 72 06640m 310 101 07230m 310 117 07950m 310 157 10370m
HEMSBY 03496	15400m 260 42 01870/1 820mb 290 65 324mb 290 58 230mb 310 64 053mb 300 15 06220m 320 77 11250m 320 78 06220/0 10880/1	270 63 02050m 290 65 01520m 320 104 08830m 310 132 08930m
CRAWLEY 03774	112mb 270 38 17400m 290 41 08570/1 10650/0 117mb 310 41 13200m 310 69 09080/0 09630/0 11780/1 12150/1	280 66 08500m 310 85 10380m 320 114 09460m 320 144 10990m
CAMBORNE 03808	080mb 290 36 12900m 310 60 04610/0 05510/0 10400/0 10800/0 11800/1 12180/1 187m 310 84 165m 310 64 09050/0 11350/1	300 112 08320m 310 130 11070m 310 168 10910m 310 117 10450m
VALENTIA 03953	00300m 290 40 00600m 290 47 08700m 310 144 922mb 230 25 742mb 250 29 475mb 280 49 376mb 280 75 267mb 280 115	310 144 08560m 290 154 11480m
Ocean Weather Station 'I' 59°00'N 19°00'W	321mb 290 60 210mb 280 62 06000m 280 51 16500m 270 57 06080/0 06600/0 10550/1 627mb 210 20 114mb 260 57 09600m 210 45 13200m 260 55 10270/0	280 76 08900m 270 96 09930m 270 69 14440m 250 78 11500m
Ocean Weather Station 'J' 52°30'N 20°00'W	690mb 270 35 380mb 280 105 141mb 280 45 900mb 180 27 800mb 210 48 720mb 240 63 189mb 260 145 230mb 240 157 176mb 240 74 098mb 240 48 900mb 220 39 800mb 220 39 600mb 240 60 311mb 240 110	280 110 10160m 240 157 10740m
LARKHILL 03743	13720m 310 41 15550m 310 33	320 128 08500m 310 136 08800m

NOTES ON THE AEROLOGICAL SITUATION

The deepening low over the western Atlantic is now moving northeast. The downwind ridge now in mid-Atlantic has increased in amplitude. The trough over the North Sea has moved east and relaxed. The ridge extending from the Baltic states to the western Mediterranean has moved steadily eastward. The trough from northern Russia to the eastern Mediterranean has also moved east whilst the small low centre has moved southeast to the Mediterranean west of Cyprus.

AVERAGE AND EXTREME VALUES 1951-55
FEBRUARY

LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...
60	18945	-60.1	-46	-71	309	24
100	15745	-58.1	-46	-69	304	17
150	13175	-55.3	-42	-72	311	18
200	11350	-56.7	-42	-70	318	20
300	8770	-52.7	-43	-61	322	21
400	6870	-41.4	-31	-56	315	17
500	5320	-30.1	-19	-43	308	13
700	2845	-13.7	-2	-23	292	7
850	1345	-5.7	4	-13	257	4

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	267	-60.4	9960
Max.	422	-43	12955
Min.	160	-75	6250

LARKHILL/CRAWLEY† (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...
60	19050	-60.1	-52	-73	308	18
100	15855	-58.1	-47	-71	307	20
150	13285	-55.5	-44	-70	310	25
200	11455	-56.9	-43	-72	313	27
300	8875	-52.2	-43	-61	315	28
400	6965	-39.9	-28	-54	309	23
500	5405	-28.2	-17	-41	306	18
700	2910	-11.2	2	-22	304	12
850	1395	-3.4	6	-15	302	8

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	264	-59.7	9835
Max.	456	-42	14355
Min.	126	-76	5850

MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28
100	16115	-62.3	-55	-69	270	49
150	13575	-56.8	-47	-66	270	66
200	11740	-55.7	-43	-68	270	71
300	9125	-47.2	-37	-56	270	58
400	7165	-33.6	-26	-46	270	45
500	5565	-22.0	-13	-33	270	36
700	3005	-5.0	6	-13	275	23
850	1455	3.7	21	-3	275	17

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	98	-63.6	...	72	...	-73
Lower	230	-58.2	350	...	-52	...

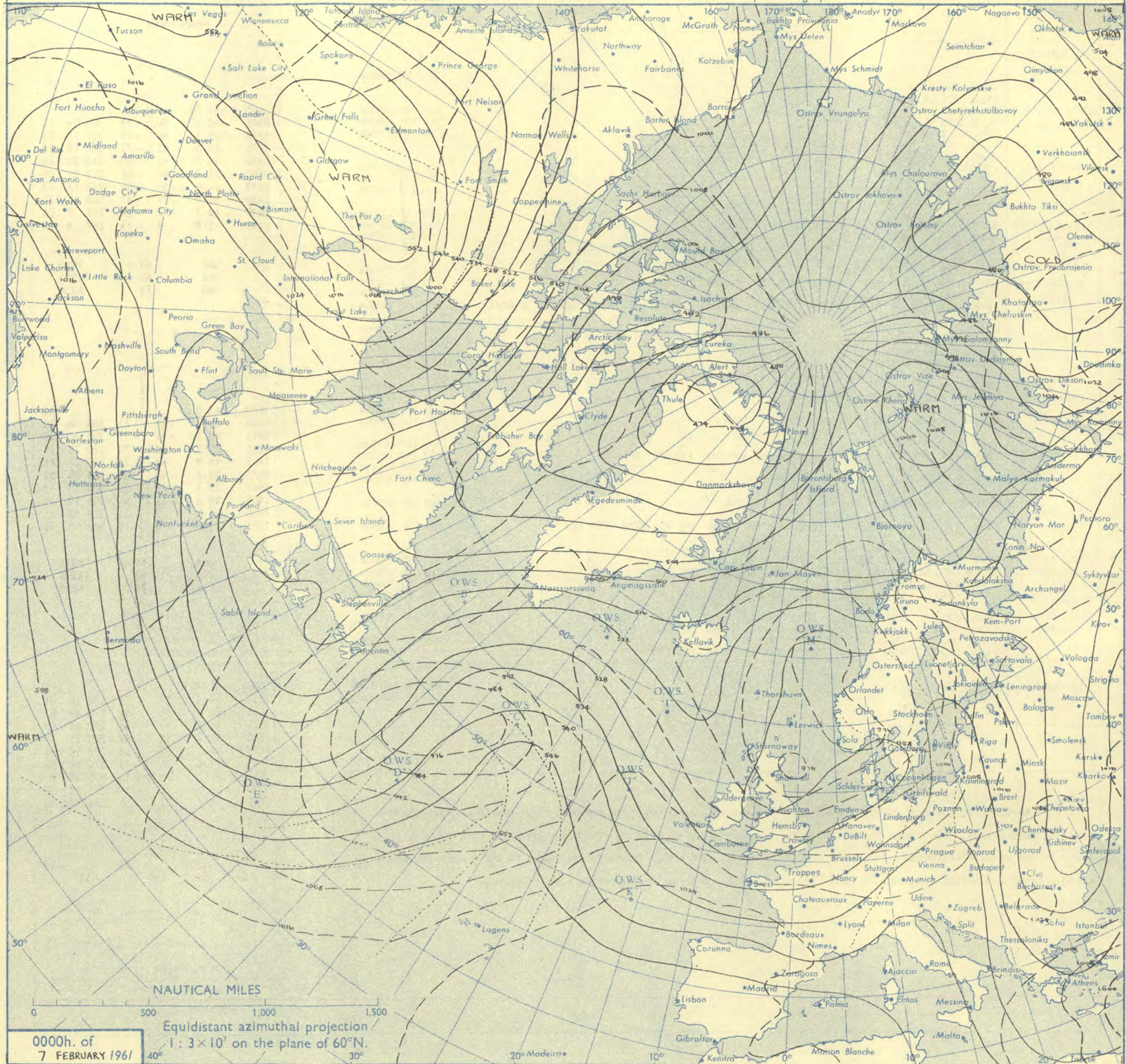
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

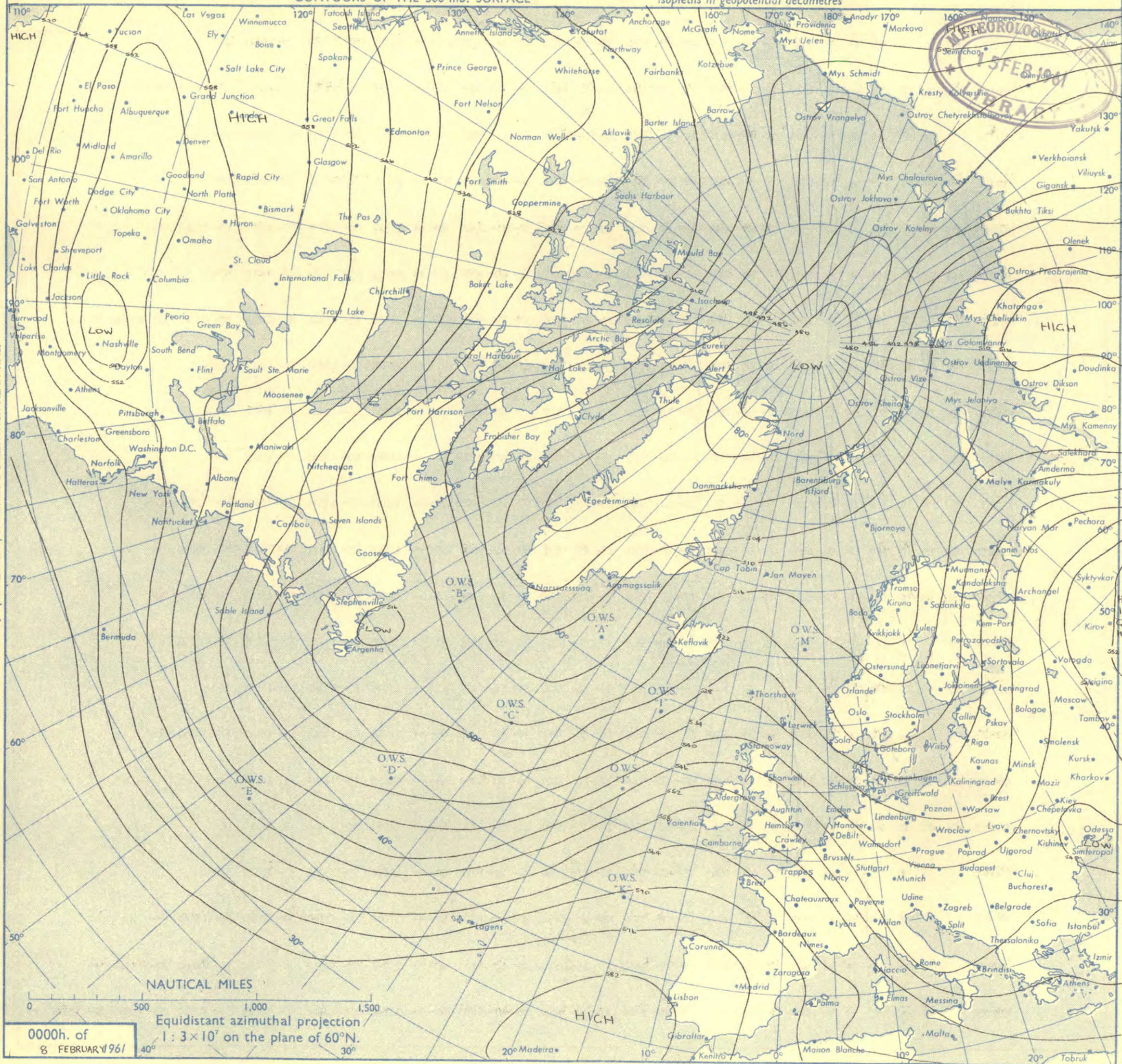
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



NAUTICAL MILES

Equidistant azimuthal projection
 $1:3 \times 10^7$ on the plane of 60°N .

0000h. of
 8 FEBRUARY 1961

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C			
LERWICK 03005	072330	082	03	00	041	++	++	1340	06-	08-	2826	17-	28-	5296	28-	48-	6865	39-	++	8775	54-	++	11354	54-	13209	53-	15813	55-												
	081144	082	05	01	016	++	++	1310	05-	14-	2825	10-	16-	5338	25-	31-	6927	36-	41-	8866	51-	++	11390	66-	13185	58-	15739	59-	17964	60-										
STORNOWAY 03026	072330	013	05	04	054	05	02	1360	04-	06-	2877	10-	14-	5398	26-	30-	6970	39-	43-	8893	50-	++	11460	56-	13283	55-	15867	57-	18118	59-										
	081140	013	08	07	087-	++	++	1242	03	01-	2797	04-	09-	5379	20-	27-	6987	34-	41-	8937	50-	++	11509	52-	13369	54-	15964	56-												
SHANWELL 03170	072330	005	02	00	085	03	02-	1391	03-	09-	2910	11-	22-	5431	25-	29-	7011	38-	41-	8940	50-	++	11527	56-	13358	52-	15956	57-	18218	56-										
	081130	005	06	06	004	++	++	1331	03	00	2883	04-	09-	5473	18-	24-	7097	31-	45-	9069	47-	++	11652	63-	13482	53-	16072	57-												
ALDERGROVE 03917	072330	077	06	05	070	++	++	1393	03	01	2944	06-	07-	5499	23-	32-	7104	33-	39-	9075	46-	++	11648	65-	13444	59-	15999	59-	18344	58-	20554	59-								
	081130	077	11	10	005	++	++	1342	04	03	2902	03-	08-	5493	18-	37-	7117	31-	48-	9089	47-	++	11674	64-	13489	55-	16051	61-												
AUGHTON 03322	072330	056	06	04	120	06	03	1435	01-	02-	2963	08-	10-	5510	23-	32-	7107	35-	43-	9063	48-	++	11626	66-	13441	58-	16005	58-	18247	60-										
	081230	056	11	09	064	11	09	1410	06	04	2974	02-	04-	5573	16-	32-	7212	28-	40-	9208	44-	++	11827	60-	13645	55-	16208	57-												
HEMSBY 03496	072330	012	04	01	139	04	00	1445	04-	11-	2956	12-	41-	5471	25-	29-	7052	37-	40-	8986	49-	++	11553	56-	13384	54-	15980	57-	18232	57-										
	081130	012	09	07	110	08	06	1439	03	00	2989	04-	08-	5579	17-	22-	7271	28-	34-	9212	45-	++	11810	63-	13627	54-	16203	57-	18450	59-										
CRAWLEY 03774	072330	144	05	02	168	05	02	1485	02-	04-	3000	11-	18-	5546	23-	25-	7146	34-	37-	9101	48-	++	11670	59-	13474	58-	16029	58-	18262	59-										
	081212	144	09	09	143	++	++	1472	03	01	3034	02-	10-	5643	17-	36-	7277	30-	47-	9267	44-	++	11855	64-	13661	57-	16199	59-												
CAMBORNE 03808	072330	088	09	08	160	08	06	1482	01	00	3033	04-	05-	5622	20-	23-	7244	31-	35-	9228	45-	++	11798	67-	13547	61-	16078	60-												
	081145	088	11	10	141	09	06	1475	05	01	3041	01	23-	5656	18-	46-	7284	30-	++	9265	46-	++	11848	61-	13655	59-	16177	64-	18368	62-										
VALENTIA 03953	080032	014	11	10	079	11	10	1423	05	03	2989	02-	04-	5600	17-	21-	7240	29-	34-	9230	44-	++	11830	65-	++++	++	16140	61-												
	081200	014	12	10	061	11	09	1404	05	01	2962	03-	12-	5560	18-	33-	7190	30-	39-	9170	45-	++	11790	57-	++++	++	16210	60-												
Ocean Weather Station 'I' 59°00'N 19°00'W	080000		09	08	119-	++	++	1212	01	01-	2743	08-	14-	5260	28-	33-	6840	38-	41-	8770	50-	++	11370	55-	13210	53-	15810	57-												
	081200		08	08	251-	++	++	1080	02	00	2611	09-	16-	5120	28-	40-	6690	40-	50-	8600	50-	++	11270	49-	13160	50-	15790	54-	18060	56-										
Ocean Weather Station 'J' 52°30'N 20°00'W	080000		10	10	080-	++	++	1270	06	06	2841	01-	01-	5460	15-	15-	7110	27-	27-	9120	41-	++	11750	62-	13570	56-	16140	56-	18400	58-	20510	++								
	081200		09	09	073-	++	++	1250	00	01-	2793	07-	20-	5320	27-	38-	6890	38-	47-	8830	45-	++	11540	45-	13460	47-	16110	52-	18410	54-	20560	55-	23840	++						

STATION	ww N _h C _L hC _M C _H	PRESSURE			TROPOPAUSE	
		MSL	Surf. 0°C level		mb	m °C
LERWICK 03005	03 53400	005 995 925	981 04 01- 834 07- 10- 780 ++ 14- 760 ++ 23- 749 ++ 26- 733 ++ 26- 681 19- 31- 639 19- 37- 603 22- 40- 540	271 09400 58-		
	02 58408	002 992 951	980 02 04- 940 ++ 05- 891 05- 08- 862 ++ 15- 848 ++ 14- 830 ++ 21- 803 05- 25- 785 ++ 22- 752 08- 15- 746	202 11330 66-		
STORNOWAY 03026	03 15601	007 005 912	900 ++ 06- 846 ++ 07- 840 05- 09- 817 ++ 17- 813 04- 16- 782 ++ 12- 743 ++ 22- 722 09- 19- 698 ++ 13- 638	224 10730 62-		
	63 673++	989 988 771	982 07 05 864 04 00 806 01 04- 783 01 04- 553 14- 20- 356 40- 47- 288 52- 237 61- 216 60- 201 52- 125 53-	237 10450 61- 110 15360 57-		
SHANWELL 03170	02 855++	011 010 909	999 04 01- 970 04 01- 922 ++ 06- 865 03- 07- 835 04- 12- 812 03- 15- 803 ++ 19- 730 ++ 15- 687 12- 24- 660	239 10400 60-		
	61 8732+	001 000 790	988 ++ 04 894 05 03 824 01 03- 716 03- 08- 669 06- 12- 614 ++ 21- 597 09- 16- 525 ++ 19- 509 17- 23- 476	189 11880 58- 198 11700 63-		
ALDERGROVE 03917	21 463++	008 999 768	980 ++ 03 930 03 02 875 04 03 803 02 02- 635 ++ 12- 628 12- 14- 603 12- 18- 546 ++ 29- 525 20- 31- 463	196 11760 66-		
	50 663++	001 991 774	893 05 04 760 ++ 02- 693 04- 09- 625 10- 14- 585 09- 22- 531 ++ 34- 372 35- 50- 285 49- 194 66- 173 55-	194 11850 66-		
AUGHTON 03322	60 855++	015 008 871	000 06 03 980 06 03 761 06- 08- 680 08- 10- 580 16- 20- 549 18- 25- 539 ++ 27- 465 ++ 36- 396 35- 43- 352	202 11570 67-		
	02 785++	008 001 735	991 ++ 07 957 08 06 884 08 06 661 05- 07- 638 07- 09- 606 10- 22- 570 11- 23- 528 ++ 31- 503 16- 32- 326	206 11670 60- 131 14500 58-		
HEMSBY 03496	02 855++	017 016 910	002 04 00 976 04 02- 944 02 05- 853 ++ 11- 827 05- 13- 802 04- 21- 727 ++ 38- 677 ++ 42- 656 15- 38- 635	236 10500 61-		
	63 874++	013 012 780	998 08 06 634 08- 13- 614 08- 13- 439 23- 29- 326 40- 46- 217 60- 191 64- 181 57- 155 54- 131 57- 069 59-	098 16090 58- 191 12100 64- 131 14410 57-		
CRAWLEY 03774	03 00906	021 003 878	956 05 02 878 ++ 05- 830 ++ 04- 798 ++ 07- 770 ++ 14- 735 ++ 20- 705 11- 21- 682 10- 14- 652 10- 12- 602	230 10800 62-		
	50 862++	017 000 748	998 ++ 07 992 08 06 877 03 01 823 04 02 758 ++ 02- 735 ++ 08- 662 ++ 13- 631 ++ 11- 606 ++ 18- 571 09- Pressure suspect above 150mb	198 11900 65- 134 14370 60-		
CAMBORNE 03808	61 862++	019 009 804	999 ++ 06 896 02 01 828 01 00 691 04- 05- 588 11- 13- 438 26- 30- 332 40- 44- 280 49- 212 66- 183 69-	183 12330 69-		
	51 863++	017 006 679	993 09 06 890 05 01 854 05 01 782 01 01- 768 ++ 09- 762 02 10- 702 01 23- 638 03- 37- 496 19- 47- 420	227 11070 61- 105 15880 64-		
VALENTIA 03953	63 864++	011 008 745	919 08 07 909 09 07 777 01 01- 711 01- 03- 670 04- 06- 558 11- 15- 336 38- 44- 263 50- 190 68- 185 67- 170	190 12100 68-		
	02 664++	007 006 760	989 10 08 895 06 04 862 06 03 783 00 02- 770 00 02- 693 04- 13- 645 07- 17- 591 09- 24- 588 08- 24- 527	207 11600 58-		
Ocean Weather Station 'I' 59°00'N 19°00'W	03 854++	986 986 831	973 ++ 07 900 04 03 870 03 01 828 ++ 01- 810 ++ 06- 780 04- 07- 675 09- 16- 550 ++ 30- 535 ++ 31- 503 28-	258 09700 56-		
	01 19463	970 970 836	950 06 04 877 04 01 824 01- 03- 806 ++ 03- 780 ++ 07- 760 04- 13- 686 ++ 17- 652 13- 22- 596 ++ 26- 525	314 08300 51-		
Ocean Weather Station 'J' 52°30'N 20°00'W	60 872++	990 990 715	950 10 10 682 01- 01- 564 11- 11- 510 13- 13- 478 18- 18- 445 21- 21- 310 40- 43- 197 63- 170 54- 058 57-	197 11800 63-		
	01 32402	990 990 850	945 07 05 835 00 02- 775 02- 05- 750 04- 07- 665 09- 25- 638 11- ++ 574 18- ++ 434 35- 45- 394 40- 48- 372	373 07400 43-		

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	072330	T	290 12	+++ ++	310 12	320 14	320 14	320 17	310 47	310 65	310 66	310 71	300 71	300 62	290 58	290 51					
	080530	P	000 00	+++ ++	170 06	190 04	260 06	290 23	290 26	290 35	290 61	300 125	300 97	290 72	290 56						
	081144	T	140 24	+++ ++	150 36	160 31	190 20	190 19	230 18	260 22	260 55	260 77	270 90	280 87	280 53	270 53					
	081813	P	160 30	+++ ++	200 42	230 43	250 44	250 38	240 45	230 44	200 33	190 41	220 37	250 53							
STORNOWAY 03026	072330	T	180 11	+++ ++	210 16	220 17	250 18	250 24	270 40	280 48	280 66	290 134	290 134	290 95	290 57	280 58					
	080545	P	150 17	+++ ++	190 22	200 21	210 22	220 19	240 32	260 47	260 66	270 89	270 110	270 102	270 64	280 35					
	081140		No winds reported																		
	081730	P	240 25	+++ ++	230 46	240 49	240 54	240 53	240 70	240 71	230 80	250 52	240 55	240 52	240 75	250 62	260 50				
SHANWELL 03170	072330	T	000 00	+++ ++	260 20	260 21	280 20	280 22	290 37	290 52	290 65	300 136	310 133	300 87	300 57						
	080530	P	160 04	+++ ++	210 14	220 17	230 18	270 33	280 38	280 47	290 80	300 100	290 116	290 100	290 60	290 45					
	081130	T	140 05	+++ ++	190 27	200 33	230 47	240 49	250 52	260 53	260 65	260 76	260 85	270 80	280 67	290 48					
	081730	P	250 14	+++ ++	250 46	250 47	260 45	260 42	250 47	250 54	250 77	260 88	260 78	250 76	260 63						
ALDERGROVE 03917	072330	T	180 14	+++ ++	230 26	240 26	260 32	270 29	280 37	290 42	290 88	300 111	290 127	290 117	290 59	290 50	290 44	280 34			
	080530	P	170 16	+++ ++	230 26	230 26	220 32	220 35	260 56	270 59	280 69	270 85	270 93	280 88	290 64						
	081130	T	210 25	+++ ++	240 52	240 60	250 67	240 68	240 69	250 69	250 123	240 87	240 87	240 84	250 85	240 90					
	081730	P	220 25	+++ ++	240 45	250 44	250 51	250 57	250 63	240 85	250 102	250 128	250 102	250 81	250 57	250 54					
AUGHTON 03322	072330	T	150 04	+++ ++	230 25	240 33	260 28	270 29	290 39	300 41	310 68	310 116	310 126	310 115	310 59	300 42	300 32				
	080550	P	150 04	+++ ++	240 27	260 26	270 22	270 29	260 39	290 60	290 67	300 83	300 91	300 93	300 72	300 40					
	081130	P	210 15	+++ ++	250 32	270 42	270 48	260 56	260 61	270 72	270 71	270 73	270 76	270 80	270 68						
	081730	P	220 15	+++ ++	250 31	260 36	260 41	260 54	260 64	250 76	260 101	260 115	260 109	260 68	260 55	280 49	280 28	280 33			
HEMSBY 03496	072330	T	250 10	+++ ++	280 24	290 23	290 32	300 36	310 47	310 60	310 76	320 133	320 142	320 100							
	070530	P	210 09	+++ ++	250 25	250 25	260 27	290 32	300 40	300 48	320 77	320 98	320 123	320 110	310 65	320 48	310 42				
	081130	P	230 18	+++ ++	250 33	270 33	270 23	260 26	290 59	310 59	290 53	300 78	310 87	300 94	310 68	310 33					
	081730	P	240 15	+++ ++	270 38	270 42	270 41	270 47	270 54	270 61	280 72	280 70	280 84	280 72	300 58	300 55	320 22				
CRAWLEY 03774	072330	T	230 06	+++ ++	270 30	280 32	280 20	290 23	290 44	300 39	320 74	320 112	320 127	320 105	320 60	310 41	310 32				
	080530	P	210 10	+++ ++	250 33	270 25	270 23	290 33	300 43	310 53	310 74	320 82	320 95	320 89	310 56	310 44					
	081212	T	220 12	+++ ++	250 39	270 43	290 46	290 45	290 51	300 59	300 58	300 58	300 75	300 91	320 58	320 46					
	081730	P	230 14	+++ ++	250 37	260 38	260 39	270 54	270 60	280 51	280 63	280 75	280 77	290 71	290 65	320 48					
CAMBORNE 03808	072330	T	210 17	+++ ++	230 40	250 37	270 27	270 35	290 44	300 50	300 70	300 91	310 95	310 88	310 57	310 46					
	080530	P	210 16	+++ ++	250 37	260 36	260 41	270 48	280 47	290 45	290 48	290 63	290 64	300 76	310 60						
	081145	T	230 20	+++ ++	250 45	250 36	250 47	250 49	260 54	260 61	260 67	260 72	250 72	260 74	290 69	300 34	300 20				
	081730	P	220 14	+++ ++	260 38	260 39	260 39	250 54	250 68	260 73	260 73	260 78	260 96	280 98	280 66	270 73					
VALENTIA 03953	080015	P	225 20	+++ ++	240 43	240 40	240 21	240 30	240 52	260 67	280 67										
	081200	P	225 20	+++ ++	250 45	250 49	250 54	240 61	240 83	240 90	240 108	240 105									
Ocean Weather Station 'I' 59°00'N 19°00'W	080000	T	190 22	+++ ++	210 30	210 28	230 33	220 33	230 40	220 46	230 77	240 145	240 105	240 64	240 54	230 57					
	080600	P	180 30	+++ ++	180 46	190 41	190 36	190 28	210 38	200 48	200 70	210 85	220 64	210 57	230 61	250 60					
	081200	T	190 25	+++ ++	230 26	230 24	230 27	230 30	230 35	220 28	190 27	170 57	190 45	210 45	240 62	240 66					
	081800	T	270 30	+++ ++	250 36	250 39	250 36	250 34	240 33	250 36	270 54	240 33	220 48	220 54	250 55	240 48					
Ocean Weather Station 'J' 52°30'N 20°00'W	080000	T	190 30	+++ ++	+++ ++	200 55	+++ ++	210 60	+++ ++	220 86	230 83	230 123	+++ ++	250 95	250 94						
	080500	T	220 37	+++ ++	+++ ++	240 53	+++ ++	220 67	210 61	210 68	210 84	220 142	+++ ++	220 105	220 78						
	081200	T	220 40	+++ ++	+++ ++	230 69	+++ ++	230 73	+++ ++	250 78	240 95	230 102	+++ ++	240 72	240 77						
	081700	T	250 42	+++ ++	+++ ++	260 58	+++ ++	250 62	240 65	240 72	240 75	240 82	+++ ++	240 72	240 77						
LARKHILL 03743	080730	P	230 13	+++ ++	250 32	270 36	270 36	260 43	290 51	300 54	310 61	300 74	310 78	310 91	310 65	330 47					
	081130	P	230 15	+++ ++	250 35	280 41	280 42	280 45	290 54	290 48	290 66	290 63	290 62	290 81	310 48	310 45					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
081245	48.2°N 18.0°W	011 003 800	061 12 07	091 09 05	963 05 03	1426 02 05	1917 00 08	03- 19	2972 07- 26	09- 32	4164 12- 45	17- 45	5529 23- 32	
Cloud :— 3/8Sc. 1800 to 2500ft. 1/8Cu. 1800 to 5000ft. 2/8Sc. 3000 to 4200ft. 1/8Ci. at 20000ft. Inversion Levels :— Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
081404	45.9°N 13.2°W	020 013 711	061 12 12	168 10 05	1045 08 05	1515 05 01	2009 05 12	03 28	3088 01- 24	04- 42	4301 08- 48	13- 35	5685 20- 33	
Cloud :— 7/8Sc. 1000 to 3000ft. 1/8Sc. 4000 to 5000ft. 1/8Ci. at 25000ft. Inversion Levels :— 1013 to 1000mb 11½°C to 13½°C Isothermal Levels :— 850 to 800mb 05°C.														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.											Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.			

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	642mb 310 31 080mb 280 53 15600m 290 50 01850/2 07350/0 07800/0 08200/0 09900/1 075mb 270 55 06500/0	310 79 09130m 300 129 09200m 270 109 11330m
STORNOWAY 03026	314mb 290 96 175mb 290 79 04810/0 06150/0 08360/0 10260/0 11890/1 12410/1 15210/1 19800m 280 38 03250/0 08300/1	290 145 09550m 270 120 10940m 230 82 07150m
SHANWELL 03170	123mb 300 54 02680m 270 27 17400m 300 39 02680/0 05880/1 06320/1 08750/0 09270/0 11750/1 12400/1 15000m 260 57	310 153 09900m 290 119 10980m 260 86 09910m 260 93 08600m
ALDERGROVE 03917	439mb 300 65 167mb 290 66 15300m 290 54 03640/3 12350/1 12900/1 428mb 250 97 18000m 250 35 04700/0 07090/0 08000/0 10200/1 11100/1	290 128 10770m 270 96 12080m 250 129 07070m 250 135 09560m
AUGHTON 03322	358mb 310 94 178mb 320 75 060mb 300 35 03900/0 12400/1 12950/1 14260/1 15550/1 21300m 280 28 06930/0 11690/1	310 135 10870m 300 96 11070m 270 81 12480m 260 117 08750m
HEMSBY 03496	361mb 310 103 152mb 310 64 19500m 310 24 06150/0 12400/1 16950m 310 27 19060m 310 15 11600/1 16420/1	320 148 10020m 320 126 10830m 300 103 12200m 280 88 10900m
CRAWLEY 03774	450mb 310 56 17700m 320 25 06690/0 07110/0 12250/1 13200/1 P17400m 300 25 16800m 290 32 03050/0 04480/1 12500/0 13060/1	330 129 10100m 310 100 12000m 300 93 12070m 290 86 12780m
CAMBORNE 03808	090mb 310 38 14400m 300 59 536mb 260 64 062mb 300 20 08890/0 10250/0 13200/1	310 104 12630m 300 80 12330m 260 76 11500m 260 104 10880m
VALENTIA 03953	00300m 230 34 00600m 230 39 08700m 270 88 00300m 230 38 00600m 240 43 09600m 240 104	270 88 08590m 240 111 06810m
Ocean Weather Station 'I' 59°00'N 19°00'W	347mb 230 99 237mb 250 90 083mb 230 54 06000m 190 59 11200m 230 74 17400m 250 69 09850/1 333mb 180 44 080mb 230 59 06300m 280 45 08100m 260 38	240 150 09200m 210 90 09550m 240 72 15530m
Ocean Weather Station 'J' 52°30'N 20°00'W	900mb 220 37 800mb 240 61 316mb 220 151 112mb 220 72 638mb 240 85 574mb 250 73 273mb 230 113 237mb 230 105 900mb 250 54 800mb 260 59 122mb 240 63	230 123 09120m
LARKHILL 03743		310 94 12300m 290 88 11500m

NOTES ON THE AEROLOGICAL SITUATION

Over eastern America and the west Atlantic the pattern has changed very little. However the ridge over the east Atlantic has moved northeast and amplified considerably. The trough over Europe has also moved east and substantial deepening has occurred over Italy. The low which was over the eastern Mediterranean yesterday has filled, whilst the ridge over Russia has moved northeast.

AVERAGE AND EXTREME VALUES 1951-55

FEBRUARY

LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...
60	18945	-60.1	-46	-71	309	24
100	15745	-58.1	-46	-69	304	17
150	13175	-55.3	-42	-72	311	18
200	11350	-56.7	-42	-70	318	20
300	8770	-52.7	-43	-61	322	21
400	6870	-41.4	-31	-56	315	17
500	5320	-30.1	-19	-43	308	13
700	2845	-13.7	-2	-23	292	7
850	1345	-5.7	4	-13	257	4
Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)			
Average	267	-60.4	9960			
Max.	422	-43	12955			
Min.	160	-75	6250			

LARKHILL/CRAWLEY† (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...
60	19050	-60.1	-52	-73	308	18
100	15855	-58.1	-47	-71	307	20
150	13285	-55.5	-44	-70	310	25
200	11455	-56.9	-43	-72	313	27
300	8875	-52.2	-43	-61	315	28
400	6965	-39.9	-28	-54	309	23
500	5405	-28.2	-17	-41	306	18
700	2910	-11.2	2	-22	304	12
850	1395	-3.4	6	-15	302	8
Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)			
Average	264	-59.7	9835			
Max.	456	-42	14355			
Min.	126	-76	5850			

MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.

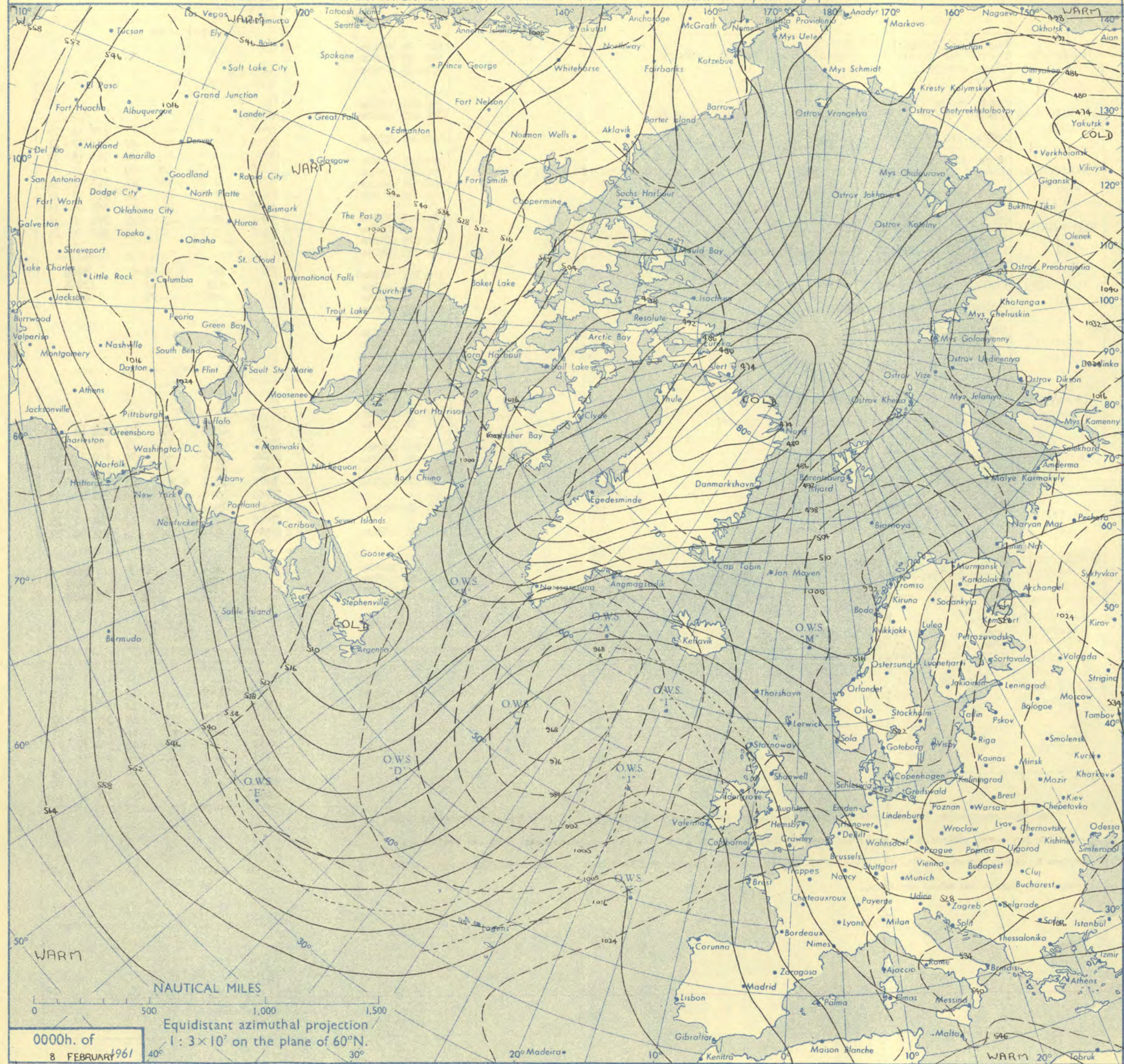
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28
100	16115	-62.3	-55	-69	270	49
150	13575	-56.8	-47	-66	270	66
200	11740	-55.7	-43	-68	270	71
300	9125	-47.2	-37	-56	270	58
400	7165	-33.6	-26	-46	270	45
500	5565	-22.0	-13	-33	270	36
700	3005	-5.0	6	-13	275	23
850	1455	3.7	21	-3	275	17
Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	98	-63.6	...	72	...	-73
Lower	230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

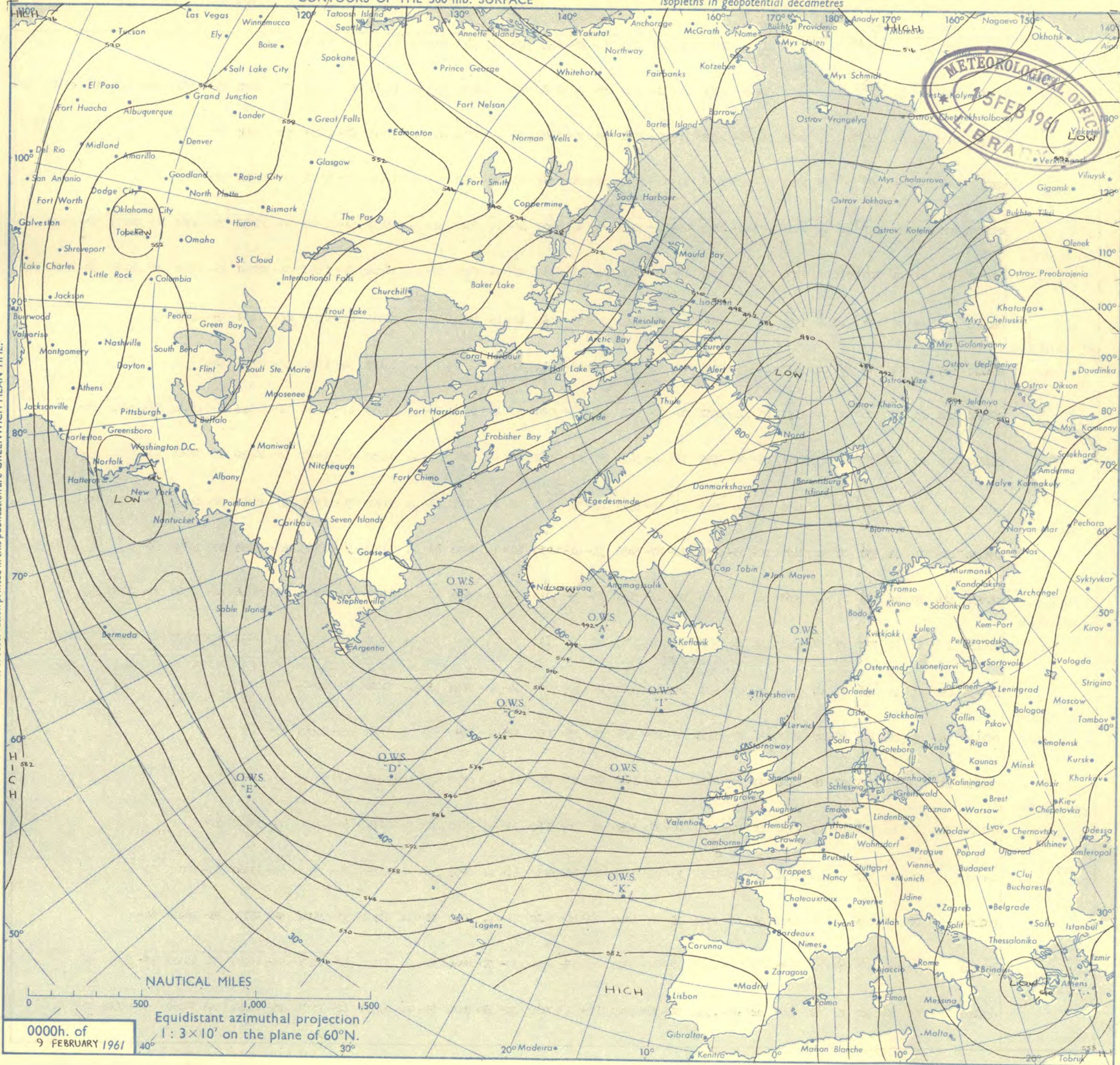
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



STATION	YYGGgg	SURFACE		1000mb		850mb		700mb		500mb		400mb		300mb		200mb		150mb		100mb		70mb		50mb		30mb		
		gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	
LERWICK 03005	082330	082	07 05	080-	++ ++	1249	01 02-	2777	10- 14-	5274	30- 37-	6821	43- ++	8717	51- ++	11376	49- 13254	50-										
	091222	082	07 05	025	++ ++	1337	04- 06-	2841	11- 31-	5343	29- ++	6894	42- ++	8774	58- ++	11359	52- 13225	52- 15827	56- 18081	59- 20172	61- 23319	64-						
STORNOWAY 03026	082343	013	09 05	086-	++ ++	1238	01- 02-	2759	11- 12-	5251	29- 35-	6806	42- ++	8705	49- ++	11395	47- 13281	50- 15899	54-									
	091130	013	07 02	090	06 01	1397	05- 08-	2898	10- 29-	5394	31- 45-	6944	42- ++	8830	55- ++	11434	52- 13304	50- 15916	57-									
SHANWELL 03170	082330	005	09 06	007-	++ ++	1322	00 02-	2849	09- 15-	5355	29- 34-	6909	42- ++	8810	51- ++	11450	53- 13320	50- 15937	55- 18168	61- 20277	59- 23450	61-						
	091130	005	08 01	100	07 00	1408	04- 08-	2907	12- 19-	5404	30- 41-	6952	43- ++	8827	57- ++	11452	51- 13317	51- 15910	55- 18172	58- 20280	62- 23435	62-						
ALDERGROVE 03917	082330	077	09 06	017	++ ++	1343	00 01-	2870	10- 15-	5380	28- 33-	6940	40- 45-	8865	49- ++	11534	47- 13429	49- 16036	58- 18272	59-								
	091130	077	07 02	175	06 01	1477	06- 09-	2981	11- 32-	5497	29- 48-	7053	42- ++	8939	57- ++	11487	54- 13327	56- 15908	56-									
AUGHTON 03322	082340	056	09 08	054	++ ++	1391	03 01-	2932	07- 13-	5475	23- 33-	7080	33- 43-	9040	47- ++	11695	47- 13584	51- 16159	60- 18412	58- 20529	58-							
	091130	056	09 06	183	07 03	1491	05- 06-	2992	12- 24-	5493	27- 41-	7062	40- ++	8962	55- ++	11559	51- 13421	53- 16020	56- 18268	63-								
HEMSBY 03496	082330	012	11 10	101	10 08	1436	04 00	2986	05- 18-	5560	20- 33-	7175	32- 41-	9141	48- ++	11728	54- 13594	53- 16157	60- 18364	62- 20468	58-							
	091130	012	10 04	157	08 02	1472	02- 09-	2991	12- 27-	5456	34- 41-	6990	42- ++	8900	48- ++	11563	50- 13443	52- 16039	57- 18272	59-								
CRAWLEY 03774	082330	144	10 09	136	++ ++	1468	04 03	3021	05- 27-	5603	20- 33-	7220	32- 40-	9185	48- ++	11766	57- 13608	56- 16146	62- 18344	62- 20437	59-							
	091130	144	10 02	201	10 02	1523	00 14-	3046	10- 24-	5567	26- 44-	7141	39- ++	9041	55- ++	11632	51- 13512	50- 16121	57- 18330	61- 20432	58- 23631	59-						
CAMBORNE 03808	082330	088	11 10	154	10 08	1484	02 03-	3024	07- 25-	5581	22- 30-	7183	34- 40-	9139	49- ++	11728	52- 13587	57-										
	091130	088	11 09	255	09 06	1582	01 07-	3133	03- 20-	5692	24- 39-	7280	37- 50-	9195	55- ++	11750	53- 13599	55-										
VALENTIA 03953	090000	014	09 07	093	07 05	1411	00 02-	2936	10- 13-	5440	28- 33-	7000	41- ++	8930	47- ++	11620	47- +++++	++	16110	57-								
	091200	014	12 10	226	09 07	1550	01 09-	3098	06- 21-	5650	21- 30-	7260	33- 40-	9220	51- ++	11750	59- +++++	++	16140	57-								
Ocean Weather Station 'I' 59°00'N 19°00'W	090000		05 02-	151-	++ ++	1154	05- 09-	2646	13- 24-	5150	28- 42-	6710	41- ++	8600	55- ++	11230	49- 13120	50- 15760	54- 18020	57-								
	091200		06 00	003-	++ ++	1298	06- 09-	2787	15- 23-	5260	29- 40-	6820	41- ++	8720	55- ++	11300	53- 13160	52- 15770	55- 18030	60-								
Ocean Weather Station 'J' 52°30'N 20°00'W	090000		08 06	078	07 05	1390	02- 02-	2908	12- 17-	5380	30- 38-	6950	39- 52-	8860	52- ++	11500	48- 13390	50- 16020	53- 18310	55- 20450	55-							
	091200		09 08	082	09 08	1400	02 06-	2954	06- 18-	5520	20- 24-	7120	34- 39-	9070	51- ++	11590	62- 13410	55- 15990	56- 18260	55- 20410	55-							

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	80 785++	990 981 841	970 09 06 960 ++ 04 923 ++ 02 829 01- 04- 711 09- 13- 668 ++ 17- 646 16- 24- 628 16- 28- 508 ++ 36- 423	40- 46- 345 50- 321 48- 270 52- 250 48- 214 47- 185 51- 140 50- 120 53-		345 270	07800 09400	50- 52-
	01 32402	003 993 902	981 ++ 01 856 04- 06- 796 08- 13- 759 ++ 14- 731 ++ 25- 701 11- 31- 678 ++ 36- 529 26- 48- 408 41- 292 59-	257 57- 244 54- 179 51- 100 56- 030 64-		292	08950	59-
STORNOWAY 03026		990 988 861	981 09 05 793 05- 06- 683 12- 13- 646 ++ 18- 581 22- 23- 572 22- 25- 551 ++ 28- 523 26- 31- 412 ++ 47-	376 46- 331 51- 239 45- 093 56- 080 55-		331	08060	51-
	25 22530	011 009 911	974 ++ 00 860 ++ 05- 840 ++ 10- 786 10- 12- 751 11- 18- 734 10- 23- 703 10- 29- 660 13- 34- 493 31- 45-	455 34- 45- 422 ++ 50- 323 54- 309 54- 293 56- 151 50- 099 57- 092 55- 079 57-		293	08960	56-
SHANWELL 03170	02 15500	999 999 843	985 09 06 777 05- 07- 747 06- 11- 730 07- 13- 643 ++ 21- 619 ++ 21- 547 ++ 30- 505 28- 32- 413 40- 44-	340 49- 307 51- 252 49- 205 53- 148 49- 100 55- 080 62- 068 61- 065 57- 040 62- 030 61-		307 205 131 080 304 112 051	08660 11290 14200 17340 08750 15200 20140	51- 53- 54- 62- 57- 58- 63-
	02 38542	012 012 910	990 ++ 01- 756 12- 14- 680 12- 23- 630 15- 29- 420 40- 48- 304 57- 240 50- 145 51- 112 58- 100 55- 074 59-	066 57- 051 63- 035 64- 032 59- 030 62-		051	20140	63-
ALDERGROVE 03917	03 455++	002 993 850	988 ++ 04 960 07 05- 900 ++ 03 818 03- 04- 770 ++ 07- 722 ++ 13- 641 ++ 18- 609 ++ 20- 580 19- 23- 525	++ 31- 421 38- 43- 326 47- 289 49- 260 50- 206 46- 138 49- 125 55- 096 59- 067 59-		289 096	09070 16300	49- 59-
	25 684++	021 012 924	996 05 00 928 ++ 02- 820 ++ 11- 806 ++ 10- 792 10- 13- 781 08- 14- 770 ++ 24- 750 10- 28- 632 13- 40- 576	19- 42- 401 42- 255 66- 248 59- 190 53- 165 56- 106 54- 091 60- 080 59-		255 165 (091)	09940 12740 16490	66- 56- 60-
AUGHTON 03322	02 655++	007 000 800	989 10 08 860 04 00 676 09- 16- 640 11- 21- 419 30- 41- 351 40- 49- 283 50- 252 53- 239 49- 206 47- 155	50- 105 60- 089 60- 083 54- 067 60- 060 60- 056 56- 044 58-		252 105 067	10180 15860 18690	53- 60- 60-
	02 38500	023 016 912	008 08 04 994 06 02 932 ++ 01- 863 04- 06- 796 08- 10- 714 ++ 23- 566 21- 34- 505 26- 40- 399 40- 269 60-	222 51- 081 57- 068 64- 064 62-		269 122 (068)	09630 14740 18440	60- 55- 64-
HEMSBY 03496	02 854++	012 011 785	002 ++ 08 894 05 03 870 06 03 814 ++ 04- 759 03- 10- 744 02- 11- 722 03- 17- 707 04- 16- 667 07- 23- 647	07- 25- 591 12- 29- 494 20- 33- 346 40- 48- 230 61- 174 50- 127 58- 086 65- 077 60- 040 59-		230 127	10870 14650	61- 58-
	02 35500	019 017 890	932 03 00 858 02- 06- 842 01- 09- 828 02- 10- 770 06- 21- 688 ++ 28- 610 21- 29- 475 37- 44- 425 40- 48-	323 50- 288 48- 173 50- 123 54- 116 56- 083 60- 063 59-		323 093	08410 16500	50- 60-
CRAWLEY 03774	58 872++	017 999 779	982 ++ 07 857 02 01 842 04 01 820 ++ 03- 784 ++ 05- 759 ++ 08- 750 ++ 16- 707 ++ 29- 692 05- 24- 679 04-	29- 427 28- 36- 347 ++ 47- 276 52- 227 60- 185 53- 118 61- 088 63- 040 59-		227 118	10990 15120	60- 61-
	02 11502	025 007 842	934 ++ 01 900 ++ 05- 894 01 06- 874 02 12- 830 ++ 15- 800 ++ 13- 774 ++ 17- 750 ++ 18- 739 09- 19- 695	10- 26- 680 ++ 30- 517 24- 45- 450 ++ 50- 338 50- 286 56- 274 52- 236 59- 203 51- 159 50- 104 55- 088 62-		236 088	10570 16910	59- 62-
CAMBORNE 03808	02 463++	019 008 806	993 ++ 08 885 02 01 863 03 01- 808 ++ 12- 723 06- 23- 670 ++ 29- 605 12- 26- 55 ++ 29- 508 ++ 29- 473	25- 34- 404 34- 40- 354 40- 46- 245 59- 220 59- 195 51- 176 51- 127 61-		245	10440	59-
	02 21500	030 020 821 758	002 ++ 06 950 05 03 807 01- 13- 788 01 15- 777 ++ 17- 730 ++ 14- 705 03- 20- 661 07- 26- 402 37- 50- 260	62- 246 63- 217 54- 117 56- 107 60-		246	10450	63-
VALENTIA 03953	25 33500	012 010 850	999 07 05 925 03 01 902 03 01 669 12- 16- 486 30- 35- 389 43- 373 44- 365 43- 296 47- 288 46- 204 46- 149	52- 134 52- 111 57- 094 57- 089 59- 085 57- 059 57-		373 111	07400 15300	44- 57-
	02 62402	028 026 785	925 03 02 851 01 08- 825 03 18- 658 10- 23- 493 22- 32- 355 39- 46- 317 46- 231 66- 220 66- 198 58- 115	56- 083 57-		231	11300	66-
Ocean Weather Station 'I' 59°00'N 19°00'W	21 785++	982 982 918	760 13- 15- 745 ++ 16- 737 14- 17- 708 12- 22- 703 ++ 24- 620 16- 31- 442 35- 49- 378 45- 305 56- 236 49-	219 50- 192 48- 135 52- 122 51- 074 58- 066 57-		305	08500	56-
	03 634++	000 000 926	950 02 04- 878 04- 08- 832 ++ 09- 776 12- 14- 701 ++ 23- 690 15- 23- 640 18- 28- 599 22- 32- 546 26- 37-	532 26- 37- 409 40- 50- 308 54- 280 57- 264 58- 249 58- 217 53- 172 53- 165 50- 093 56- 089 55- 078 58-		264	09500	58-
Ocean Weather Station 'J' 52°30'N 20°00'W	01 22402	009 009 900	990 07 03 940 02 02 800 05- 05- 780 06- 08- 735 09- 11- 685 13- 20- 608 21- 27- 546 25- 32- 534 27- 37-	446 34- 43- 434 35- 48- 394 40- 52- 348 47- 302 53- 300 52- 188 49- 159 49- 041 56-		300	08860	52-
	02 4577+	009 009 800	950 06 06 800 00 13- 600 12- 15- 360 40- 46- 239 65- 213 66- 161 54- 049 55-			239	10400	65-

STATION*	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	082330	T	200 24	+++ ++	240 38	240 36	240 34	240 35	230 40	220 37	220 47	220 40	240 48	230 36	250 57						
	090530	P	220 22	+++ ++	230 24	240 24	240 25	240 29	240 28	270 27	280 32	270 25	260 32	260 43	260 46						
	091132	P	270 25	+++ ++	280 38	270 36	270 25	260 27	280 30	280 31	270 33	260 36	270 35	280 35	270 39	270 54	250 42				
	091730	P	260 22	+++ ++	280 32	280 33	280 34	280 37	280 36	280 36	290 67	300 82	290 67	280 51	270 45	260 45	270 45				
STORNOWAY 03026	082343	T	220 22	+++ ++	230 48	240 48	240 42	240 40	240 46	250 43	260 41	240 51	240 44	240 48	250 62	250 62					
	090530								NO WINDS REPORTED												
	091130	T	250 18	+++ ++	270 35	270 40	280 39	270 39	270 38	270 43	270 54	280 64	280 60	270 52	270 45	270 50					
	091730	P	240 14	+++ ++	250 29	250 31	260 31	270 38	260 44	270 62	270 83	280113	280111	270 48	260 52	270 53					
SHANWELL 03170	082330	T	240 10	+++ ++	240 40	250 40	250 37	250 43	240 47	250 46	240 71	250 81	260 52	250 65	250 68	260 46	260 42				
	090530	P	250 30	+++ ++	270 52	270 50	280 49	280 43	280 37	300 18	290 12	260 42	260 53	260 57	260 52	260 49	260 40				
	091130	T	250 15	+++ ++	290 33	300 36	300 42	300 45	300 39	300 35	290 46	290 63	290 54	280 44	280 45	270 46	260 37	260 45	260 43		
	091730	P	250 08	+++ ++	280 23	290 31	290 35	300 42	290 51	300 58	290 86	300106	310100	300 61	280 38						
ALDERGROVE 03917	082330	T	210 14	+++ ++	250 40	260 45	260 48	260 49	250 50	250 43	250 67	240 88	250 85	250 70	250 70						
	090530	P	260 16	+++ ++	270 45	280 48	280 51	280 60	270 65	270 61	280 45	280 57	270 66	270 59	270 60	260 45	260 42	240 22			
	091130	T	260 15	+++ ++	280 38	280 37	290 40	300 59	290 66	300 78	300 93	300120	300 79	280 59	280 47	270 54	290 41				
	091730	P	180 08	+++ ++	240 24	270 24	270 37	270 46	270 54	280 55	270 67	280 84	290121	290 63	270 50	270 45					
AUGHTON 03322	082340	T	240 23	+++ ++	250 54	250 50	250 48	260 47	260 58	250 86	250 99	250124	250125	260 71	250 70						
	090530	P	250 15	+++ ++	290 44	300 44	300 49	290 53	290 59	280 59	270 58	280 62	280 67	270 66	260 65	260 61					
	091130	T	250 15	+++ ++	300 38	300 40	300 42	300 48	300 68	310 93	310103	310107	310 97	310 59							
	091730	P	260 08	+++ ++	280 28	300 36	310 46	300 52	290 45	290 54	300 75	310 94	320100	290 68	280 49	280 44					
HEMSBY 03496	082330	T	230 14	+++ ++	260 41	270 41	270 42	270 46	270 62	260 72	260 85	270 95	270 99	270 76	280 61	280 36	290 27	270 17			
	090530	P	250 22	+++ ++	280 52	280 52	280 49	270 49	270 49	270 42	250 74	260 75	270 72	260 72	270 66	270 31					
	091130	T	280 20	+++ ++	300 47	310 54	300 47	300 44	290 46	290 43	310 65	310 74	300 65	290 53	290 51	320 43					
	091730	P	290 11	+++ ++	320 38	320 37	320 37	320 42	320 67	320 72	320 95	330104	320109	320 66	300 42	290 38	280 34				
CRAWLEY 03774	082330	T	240 15	+++ ++	260 41	260 46	260 52	270 55	270 70	260 74	260 72	270 80	270 92	270 77	280 68	270 32	270 23				
	090530	P	260 20	+++ ++	270 45	270 57	270 58	280 58	280 62	290 63	260104	270 99	270 93	270 86	280 72						
	091215	P	290 13	+++ ++	300 27	310 41	300 47	310 56	310 84	310 98	310103	310109	310108								
	091730	P	270 07	+++ ++	310 25	320 34	330 46	320 55	320 48	310 63	310 79	320 94	320 92	310 74	300 53						
CAMBORNE 03808	082330	T	240 21	+++ ++	260 45	260 44	260 51	260 59	250 83	250 92	250 99	250111	250121								
	090530	P	270 22	+++ ++	290 43	290 52	290 51	290 59	300 82	300108	290111	290113	290106								
	091130	T	260 18	+++ ++	280 25	280 31	300 50	290 59	290 66	280 76	300 78	310 87	290 83	290 81							
	091730	P	180 05	+++ ++	260 18	270 28	280 32	280 42	280 44	290 48	290 54	310 62	310 87	300 72	280 67	290 54	260 30	310 20			
VALENTIA 03953	090000	P	225 20	+++ ++	270 38	280 42	280 47	280 51	270 42	270 58	260 71	250 99									
	091200	P	225 10	+++ ++	240 25	250 28	260 36	260 47	270 58	270 60	270 77	280 87	280 81	290 88	+++ ++						
Ocean Weather Station 'I' 59°00'N 19°00'W	090000	T	260 50	+++ ++	260 48	260 45	260 46	260 48	250 48	250 54	240 46	240 39	230 49	240 45	240 45	240 57					
	090600	P	270 40	+++ ++	260 48	260 55	260 51	250 45	250 59	240 59	240 56	260 58	250 58	250 58	250 50	250 54	250 51				
	091200	T	230 35	+++ ++	230 35	230 36	230 39	230 39	240 52	240 65	250 96	240132	240 84	250 65	250 60	240 69	240 55				
	091800	P	135 30	+++ ++	140 27	150 32	160 38	180 35	180 47	200 64	210 67	200 77	210102	220 60	240 57	240 59					
Ocean Weather Station 'J' 52°30'N 20°00'W	090000	T	260 30	+++ ++	260 31	+++ ++	260 47	+++ ++	260 58	+++ ++	260 91	260133	260114	+++ ++	260 72						
	090500	T	230 15	+++ ++	+++ ++	240 37	+++ ++	250 63	250 81	240 85	240 87	250107	+++ ++	250 79	250 63	250 54	250 55				
	091200	T	160 30	+++ ++	160 31	+++ ++	200 57	+++ ++	200 65	+++ ++	210 71	230 78	230 89	+++ ++	240 82						
	091700	P	310 32	+++ ++	+++ ++	230 64	+++ ++	220 82	210 80	210 97	210110	210109									
LARKHILL 03743	090730	P	280 20	+++ ++	290 45	290 48	310 47	300 47	290 45	290 58	300110	290 97	270 75	280 76							
	091125	P	280 16	+++ ++	300 27	300 43	300 46	310 73	310 92	310 92	310101	300115	310 78	310 60							

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
091220	52.0N 24.5W	999 991 825	061 10 03	012- 07 05	853 02 02-	1311 01 17-	1798 01- 29-	03- 39-	2850 07- 35-	11- 45-	4033 15- 45-	20- 51-	5389 22- 32-	
Cloud :— 5/8 cu. 2500 to 3600 ft. 3/8 cs. 20000 ft. to TNR. 6/8 ci. 25000 ft. to TNR.														
Inversion Levels :— Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
091340	49.3N 19.8W	014 006 770	061 12 11	113 09 09	988 08 06	1457 05 04	1951 02 02	02- 02-	3081 04- 04-	06- 06-	4225 09- 09-	15- 15-	5602 21- 26-	
Cloud :— 4/8 St. 8000 to 3300 ft. 8/8 Ns. 7000 to 19000 ft.														
Inversion Levels :— Isothermal Levels :— 960 to 950mb 09°C.														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.												Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2		

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	124mb 260 51 04500/2 20100m 260 52 19500m 270 51 06850/0 07300/0 09750/0	250 63 12870m 300 88 08520m
STORNOWAY 03026	087mb 250 48 085mb 260 45 11290m 290 65 17400m 270 40 03575/0 05110/0 08750/0 09820/1 10910/1	250 68 14380m 280 72 09450m 280 126 09540m
SHANWELL 03170	08200m 250 21 20500m 270 39 04460/1 07770/5 08200/0 08610/1 10950/1	250 85 08620m 290 69 09450m 300 117 09370m
ALDERGROVE 03917	455mb 250 55 128mb 250 67 22500m 270 27 06480/1 17450/1 20200/1 11200m 290 96 17600m 270 39 07600/0 09400/0 09900/0 10950/1 11500/1	240 93 09350m 270 67 11280m 300 126 09150m 300 123 10700m
AUGHTON 03322	235mb 260 96 133mb 250 63 00430/0 10280/1 16010/1 168mb 310 59 18000m 280 31 08270/0 10320/1 10910/1 12030/1	250 132 09100m 280 74 10050m 310 115 09090m 320 105 10110m
HEMSBY 03496	113mb 280 48 045mb 270 18 15560m 270 41 16400m 270 26 06800/0 07200/0 15260/1 06800m 260 57 11850m 320 99 19400m 270 28 03850/1 04600/1 10850/1 11760/1 14150/1	280 104 10440m 250 94 07770m 300 84 07720m 330 114 09640m
CRAWLEY 03774	062mb 270 20 15600m 270 47 06280/6 15260/4 11700m 310 71 01350/0 02800/0 03540/0 04820/0 10800/1 15300m 310 53 01660/0 10330/1 12000/1 12550/1	270 96 10310m 260 108 07330m 310 117 09520m 330 102 09500m
CAMBORNE 03808	228mb 250 127 11700m 290 102 04250/0 04730/0 154mb 270 64 22200m 270 11	250 129 10640m 290 116 09800m 310 90 09180m 310 90 10750m
VALENTIA 03953	00300m 260 30 00600m 270 34 09600m 260 104 00300m 240 19 00600m 240 22 11700m 290 88	260 104 09780m 280 90 09500m
Ocean Weather Station 'I' 59°00'N 19°00'W	071mb 240 52 20400m 250 57 344mb 250 114 269mb 240 117 065mb 240 57 09240m 210 84 16800m 240 44 10130/0 11450/1	240 61 17290m 250 66 10970m 240 138 08780m 210 108 10390m
Ocean Weather Station 'J' 52°30'N 20°00'W	348mb 260 138 188mb 260 64 900mb 240 30 800mb 240 45 269mb 250 108 065mb 250 57 229mb 230 106 168mb 240 80 900mb 230 61 800mb 230 66 305mb 210 125 261mb 210 132 240mb 210 130	260 138 07880m 230 106 10760m
LARKHILL 03743	13720m 290 65	290 124 08260m 290 126 09127m

NOTES ON THE AEROLOGICAL SITUATION

The broad trough over the west Atlantic has moved slowly east, whilst a low centre has formed near southeast Greenland. The ridge which yesterday was west of the British Isles has moved to central Europe and weakened slowly. A new ridge has commenced to amplify north of the Azores. The trough over eastern Europe has developed a cut-off low over Greece.

AVERAGE AND EXTREME VALUES 1951-55
FEBRUARY

LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...
60	18945	-60.1	-46	-71	309 24	26
100	15745	-58.1	-46	-69	304 17	25
150	13175	-55.3	-42	-72	311 18	28
200	11350	-56.7	-42	-70	318 20	35
300	8770	-52.7	-43	-61	322 21	46
400	6870	-41.4	-31	-56	315 17	42
500	5320	-30.1	-19	-43	308 13	35
700	2845	-13.7	-2	-23	292 7	26
850	1345	-5.7	4	-13	257 4	25

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	267	-60.4	9960
Max.	422	-43	12955
Min.	160	-75	6250

LARKHILL/CRAWLEY† at 03, 15h.
(Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...
60	19050	-60.1	-52	-73	308 18	25
100	15855	-58.1	-47	-71	307 20	28
150	13285	-55.5	-44	-70	310 25	34
200	11455	-56.9	-43	-72	313 27	41
300	8875	-52.2	-43	-61	315 28	52
400	6965	-39.9	-28	-54	309 23	44
500	5405	-28.2	-17	-41	306 18	35
700	2910	-11.2	2	-22	304 12	25
850	1395	-3.4	6	-15	302 8	22

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	264	-59.7	9835
Max.	456	-42	14355
Min.	126	-76	5850

MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.

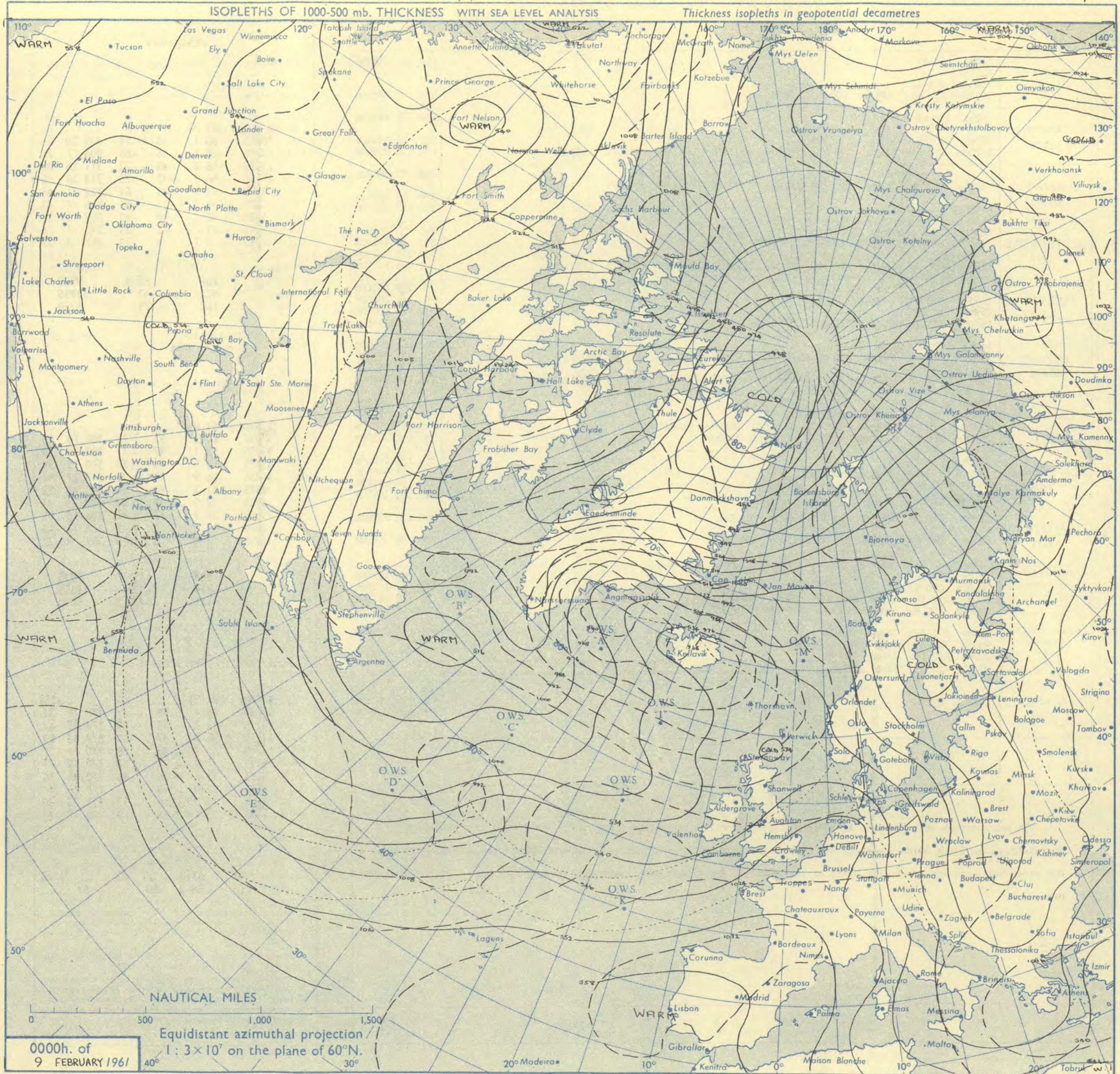
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	(15)
60	19250	-64.4	-59	-73	270 28	31
100	16115	-62.3	-55	-69	270 49	52
150	13575	-56.8	-47	-66	270 66	69
200	11740	-55.7	-43	-68	270 71	77
300	9125	-47.2	-37	-56	270 58	71
400	7165	-33.6	-26	-46	270 45	56
500	5565	-22.0	-13	-33	270 36	45
700	3005	-5.0	6	-13	275 23	30
850	1455	3.7	21	-3	275 17	24

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb. 98	-63.6	...	mb. 72	...	-73
Lower	230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

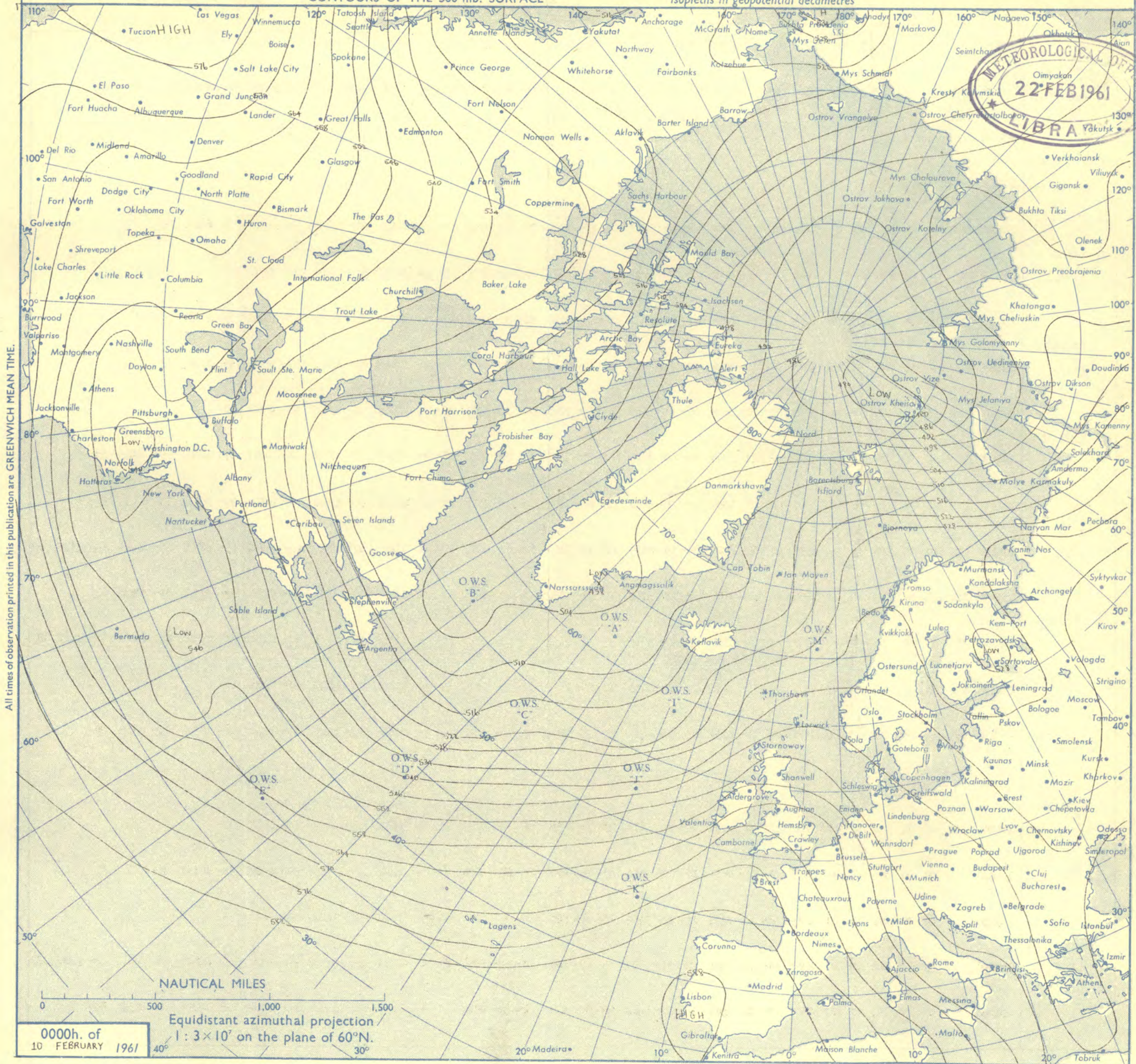
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



All times of observation printed in this publication are GREENWICH MEAN TIME.

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C			
LERWICK 03005	092330	082	05	03	117	05	02	1424	04	10	2935	10	28	5457	26	32	7044	36	42	8975	52	++	11499	64	13309	56	15869	60	18097	60	20189	62								
	101138	082	08	05	028	++	++	1292	01	03	2817	08	17	5334	29	42	6894	39	++	8819	50	++	11441	52	13302	52	15905	56	18157	59	20257	61								
STORNOWAY 03026	092330	No ascent made																																						
	101130	No ascent made																																						
SHANWELL 03170	092330	005	04	01	172	05	01	1484	00	13	3018	06	20	5573	22	25	7181	33	37	9129	50	++	11651	66	13450	57	16010	58	18251	58										
	101130	005	11	04	096	10	03	1423	03	09	2977	03	26	5528	25	33	7115	36	44	9056	50	++	11608	62	13396	56	15985	54												
ALDERGROVE 03917	092330	077	08	05	161	07	04	1493	05	03	3055	03	07	5631	20	25	7246	31	35	9216	48	++	11768	69	13542	57	16092	59	18336	57										
	101130	077	10	05	140	09	05	1465	02	13	3006	07	24	5557	24	39	7149	35	47	9083	51	++	11629	58	13449	57	16023	56	18262	59										
AUGHTON 03322	092330	056	05	04	227	06	02	1553	03	11	3098	05	21	5669	20	32	7285	31	39	9251	49	++	11793	67	13559	59	16108	58												
	101130	056	10	09	171	09	06	1499	02	01	3045	06	08	5604	22	25	7209	33	38	9173	48	++	11743	62	13524	62	16057	57	18309	59	20403	58								
HEMSBY 03496	092330	012	04	01	248	06	00	1560	00	09	3100	06	17	5650	22	26	7254	34	38	9199	51	++	11722	65	13531	56	16100	57	18351	59	20455	59								
	101130	012	10	05	206	07	04	1538	06	09	3095	05	19	5659	21	32	7269	32	42	9234	47	++	11802	67	13552	61	16094	59	18328	58	20424	60	23595	63						
CRAWLEY 03774	092330	144	05	05	272	06	03	1604	04	13	3148	07	28	5700	23	36	7306	33	41	9254	51	++	11787	64	13576	59	16120	58	18354	61	20458	61								
	101130	144	08	06	237	07	03	1568	07	07	3130	03	21	5710	20	37	7312	33	48	9271	50	++	11812	68	13568	61	16092	60	18316	62	20396	61	23550	61						
CAMBORNE 03808	092330	088	09	08	264	08	07	1604	06	19	3165	03	10	5751	20	29	7365	33	39	9325	49	++	11856	70	13626	61	16151	62												
	101130	088	10	09	229	08	06	1578	06	08	3139	03	20	5716	21	35	7326	33	43	9291	47	++	11852	66	13635	59	16170	60	18390	61	20473	62								
VALENTIA 03953	092300	No ascent made																																						
	101200	014	11	11	154	09	08	1485	03	02	3039	05	09	5610	22	30	7210	35	42	9150	50	++	11720	58	++++	++	16120	57												
Ocean Weather Station 'I' 59°00'N 19°00'W	100000		78	05	166	++	++	1155	01	03	2681	10	12	5180	30	34	6740	39	49	8680	47	++	11340	48	13230	50	15860	53	18150	55										
	101200		06	01	012	06	01	1315	06	10	2808	15	23	5260	33	38	6800	44	++	8680	56	++	11280	52	13160	50														
Ocean Weather Station 'J' 52°30'N 20°00'W	100000		09	07	048	09	07	1260	01	02	2895	08	31	5430	26	49	7000	37	57	8940	48	++	11550	54	13390	52	16000	54	18280	56	20410	56	23640	57						
	101200		09	07	067	08	07	1380	00	06	2911	10	23	5410	26	40	6920	38	52	8910	50	++	11540	50	13420	50	16080	50	18390	53	20570	52								

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	01 11400	014 004 909	999 ++ 02 920 ++ 02- 900 ++ 07- 862 ++ 10- 809 07- 11- 801 ++ 10- 782 06- 14- 762 ++ 21- 680 11- 31- 655 12- 27- 595 ++ 24- 541 ++ 31- 532 23- 32- 446 30- 35- 371 40- 46- 224 65- 197 64- 189 59- 145 55- 100 60- 047 62-	224 10810 65-				
	02 784++	997 987 869	975 ++ 04 910 02 00 786 05- 08- 713 07- 15- 541 23- 36- 427 38- 50- 420 37- 49- 378 42- 261 54- 137 52- 100 56- 046 62-	261 09700 54-				
STORNOWAY 03026								
SHANWELL 03170	02 00902	022 021 852	002 05 01 974 03 01- 942 03- 01- 898 00 03- 890 ++ 02- 871 01 12- 815 02- 14- 774 04- 23- 741 03- 20- 678 ++ 21- 608 ++ 16- 520 20- 23- 467 25- 30- 389 35- 39- 360 40- 45- 215 69- 203 68- 191 61- 148 57- 100 58- 078 60- 066 57- 054 60-	215 11200 69-				
	02 15606	012 011 769	931 ++ 01- 920 ++ 03- 881 01 04- 848 03 11- 798 02 22- 644 09- 31- 494 26- 42- 366 40- 46- 241 61- 228 60- 195 63- 150 56- 128 57- 111 52- 100 54- 082 60- 071 58-	241 10470 61- 195 11780 63- 082 17260 60-				
ALDERGROVE 03917	21 554++	020 010 768	961 06 04 898 07 05 755 ++ 02- 715 02- 06- 633 ++ 12- 624 10- 14- 607 10- 16- 598 ++ 21- 537 18- 23- 526 18- 23- 519 ++ 24- 440 ++ 31- 417 29- 33- 347 39- 44- 215 68- 204 69- 191 68- 181 63- 139 55- 113 61- 070 57- 063 59-	204 11640 69- 113 15340 61-				
	02 35502	017 008 814	901 02 00 882 04 04- 874 ++ 09- 844 ++ 14- 780 ++ 20- 699 07- 24- 677 07- 24- 568 16- 34- 449 30- 43- 401 35- 47- 320 47- 247 62- 230 64- 170 56- 115 57- 081 60- 065 59-	230 10790 64-				
AUGHTON 03322	02 25500	028 021 793	020 ++ 00 998 06 02 967 05 01 944 06 01- 886 03 08- 846 03 12- 762 02- 18- 609 10- 26- 512 20- 33- 499 20- 32- 447 27- 35- 427 28- 36- 346 40- 48- 282 53- 217 65- 197 67- 150 59- 088 58-	197 11870 67-				
	61 854++	021 014 803	000 09 06 938 05 03 759 02- 03- 516 20- 23- 346 40- 46- 253 56- 217 62- 133 62- 096 56- 071 58- 062 62- 050 58-	217 11250 62- (062 19060 62-				
HEMSBY 03496	02 00900	031 029 900 788	012 07 01 869 02- 08- 828 ++ 18- 769 01 13- 770 ++ 11- 721 05- 18- 622 13- 21- 578 15- 21- 507 ++ 26- 360 40- 44- 227 66- 202 67- 187 57- 124 56- 052 60- 045 56-	227 10940 66-				
	02 855++	025 023 761	925 02- 00 911 09 02- 891 09 08- 623 11- 23- 581 13- 28- 542 17- 23- 520 19- 29- 408 31- 43- 356 40- 47- 216 63- 196 69- 159 64- 139 58- 092 59- 081 61- 073 57- 055 61- 048 59- 030 63-	196 11910 69- 063 18990 61-				
CRAWLEY 03774	02 00901	034 016 794	002 07 05 918 ++ 08- 879 06 10- 764 ++ 23- 634 12- 29- 598 13- 29- 518 21- 35- 422 30- 38- 358 ++ 46- 272 56- 238 64- 205 64- 163 58- 082 59- 072 62- 063 58- 052 61- 038 60- Pressure suspect above 100 mb	238 10700 64-				
	02 864++	029 011 749	997 ++ 02 945 04 01 931 ++ 03 901 08 03 890 ++ 03- 861 07 07- 770 ++ 17- 670 ++ 25- 598 10- 32- 403 33- 48- 389 ++ 50- 269 56- 193 69- 160 62- 133 59- 116 62- 086 59- 060 63- 044 61- 036 65- 035 62- 030 61-	193 12020 69- 116 15160 62- (036 22600 65-				
CAMBORNE 03808	02 45572	032 021 764	976 06 04 962 08 02 901 09 08- 840 05 22- 796 ++ 33- 770 ++ 12- 751 01- 09- 745 01- 08- 724 01- 15- 700 ++ 10- 692 ++ 13- 672 ++ 10- 663 ++ 13- 650 ++ 12- 633 08- 15- 582 ++ 23- 575 12- 23- 545 15- 23- 462 ++ 35- 370 37- 42- 348 40- 46- 226 66- 194 71- 177 61- 130 60- 090 63-	194 12040 71-				
	02 754++	028 017 751	984 07 05 975 07 05 956 12 02 899 10 04- 784 02 13- 746 ++ 18- 621 08- 25- 501 21- 35- 446 27- 39- 367 39- 49- 339 41- 273 53- 204 66- 174 61- 112 59- 045 62-	204 11710 66-				
VALENTIA 03953	51 863++	018 017 785	991 09 08 679 06- 13- 612 12- 20- 577 13- 28- 508 21- 29- 445 28- 33- 376 38- 44- 255 58- 248 58- 235 60- 206 60- 194 56- 092 57- 055 59-	235 10700 60-				
Ocean Weather Station 'I' 59°00'N 19°00'W	21 45530	980 980 864	958 ++ 02 885 01 01- 816 03- 04- 702 ++ 12- 667 ++ 19- 649 04- 20- 616 ++ 23- 602 ++ 27- 485 31- 35- 453 ++ 39- 438 36- 42- 395 39- 49- 350 44- 268 50- 236 50- 213 47- 060 56-	268 09400 50-				
	02 68531	001 001 925	918 ++ 05- 828 08- 12- 817 ++ 12- 778 ++ 20- 737 ++ 24- 710 14- 23- 682 16- 23- 572 26- 31- 503 33- 38- 428 40- 45- 380 47- 360 48- 324 54- 312 54- 302 56- 279 58- 253 55- 241 52- 221 53- 181 50- 123 51-	279 09100 58-				
Ocean Weather Station 'J' 52°30'N 20°00'W	02 20942	005 005 880	985 08 04 915 02 02 875 00 00 800 03- 17- 660 10- 36- 363 40- 59- 267 53- 250 55- 220 57- 023 57-	250 10500 55-				
	03 22500	007 007 860	995 07 07 930 03 03 865 00 03- 830 02- 11- 780 04- 16- 650 15- 27- 430 33- 46- 390 40- 53- 370 43- 294 51- 263 53- 185 50- 110 49- 058 51- 040 53-	263 09900 53-				

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb	750mb	700mb	600mb	500mb	400mb	300mb	250mb	200mb	150mb	100mb	70mb	50mb	30mb	20mb	10mb
						1500m	2100m	3000m	4200m	5400m	7200m	9000m	10500m	12000m	14100m	15900m	18300m	20700m	23700m	26400m	30900m
LERWICK 03005	092330	T	210 11	+++ ++	240 18	230 19	250 32	250 26	240 38	250 40	280 72	280 99	280 112	280 60	280 48	260 40					
	100554	P	180 34	+++ ++	210 51	240 53	250 45	220 43	240 68	240 65	230 71	240 81	240 81	240 65	260 50	260 48					
	101140	P	230 39	+++ ++	240 60	250 54	250 51	240 57	240 61	250 63	250 72	250 70	250 70	250 73	260 51	270 52					
	101730	P	250 35	+++ ++	270 53	270 63	270 62	270 60	270 70	260 81	260 89	260 91	250 74	260 71							
STORNOWAY 03026	092330		No winds reported																		
	100530		No winds reported																		
	101130		No winds reported																		
	101730	P	240 18	+++ ++	260 30	250 31	250 33	250 38	250 41	250 47	250 71	250 77	240 65	250 47	260 33						
SHANWELL 03170	092330	T	000 00	+++ ++	P210 32	220 39	230 41	240 45	250 61	260 77	270 67	280 80	280 87	280 78	270 54						
	100530	P	220 20	+++ ++	250 60	250 59	240 53	240 57	250 69	250 76	250 86	250 89	250 94	260 63							
	101130	T	260 24	+++ ++	260 53	260 52	260 51	260 44	250 51	250 54	250 77	250 86	250 84	250 62	260 76						
	101730	P	250 14	+++ ++	270 37	270 37	260 42	250 44	250 45	250 52	250 64	250 76	250 82	250 76	260 52	260 41					
ALDERGROVE 03917	092330	T	180 22	+++ ++	230 52	230 57	240 50	240 54	250 65	260 71	250 68	260 75	270 84	270 75	270 53	260 47	270 38				
	100530	P	220 18	+++ ++	250 35	250 41	250 44	240 57	260 72	250 76	240 84	240 96	250 105	250 100							
	101130	T	230 16	+++ ++	260 29	260 40	250 35	250 35	240 37	250 55	240 72	250 87	240 91	250 67	260 66						
	101730	P	190 07	+++ ++	230 18	230 22	240 29	260 39	260 49	240 66	240 74	240 104	250 85	250 72	260 51	270 52					
AUGHTON 03322	092330	T	160 06	210 24	240 26	250 30	250 39	260 40	270 50	280 64	290 57	290 69	300 72	300 61	290 62	280 38					
	100550	P	190 20	+++ ++	240 37	250 45	250 62	260 60	260 45	250 59	250 74	260 74	260 77	260 70	280 60	260 55					
	101130	T	250 12	+++ ++	260 30	260 38	260 49	260 47	260 54	260 55	260 63	250 79	240 76	260 54	260 55	270 53	270 36				
	101730	P	240 12	+++ ++	240 30	250 40	250 41	260 42	260 49	250 59	250 70	260 85	260 84	250 57	260 65	260 62					
HEMSBY 03496	092330	T	230 07	+++ ++	290 13	300 22	310 45	310 49	310 53	310 54	310 71	320 83	330 107	330 62	310 43	290 39	300 22				
	100530	P	220 07	+++ ++	250 28	260 29	270 34	290 40	290 42	290 47	300 57	310 55	310 68	300 66	300 54						
	101130	T	240 20	+++ ++	250 41	260 47	260 41	270 37	260 41	280 50	280 56	270 55	260 58	270 76	280 50	290 39	270 35	280 29	290 23		
	101730	P	230 10	+++ ++	260 39	270 46	270 45	260 44	260 48	270 53	270 61	270 70	270 78	270 66	290 47	280 41	270 32	280 29			
CRAWLEY 03774	092330	T	000 00	+++ ++	280 15	290 23	300 35	300 36	310 44	310 64	320 63	320 71	330 75	320 65	310 59	290 45	300 24	270 19			
	100530	P	230 10	+++ ++	240 32	260 37	270 39	260 37	280 38	280 43	290 56	300 51	310 48	310 46	300 60	290 43	290 31				
	101130	T	200 10	+++ ++	250 37	260 40	270 41	270 41	280 48	270 56	270 52	270 56	260 48	270 61	280 64	280 48	280 22	290 26	270 22		
	101730	P	230 12	+++ ++	250 37	260 36	250 43	260 42	260 47	270 52	280 47	280 73	270 84	270 64	280 48						
CAMBORNE 03808	092330	T	180 18	+++ ++	230 31	240 35	250 36	260 36	260 44	270 49	270 50	280 50	290 52	290 54	290 71	280 47					
	100530	P	190 18	+++ ++	230 38	250 38	260 39	250 45	260 49	260 53	250 52	260 57	260 48	270 51	270 59	270 46					
	101130	T	200 20	+++ ++	240 37	250 41	240 44	250 45	260 52	240 56	250 68	260 66	260 71	260 70	260 66						
	101730	P	210 22	+++ ++	250 36	250 39	250 46	250 43	260 43	250 58	250 72	260 88	250 91	260 68	270 52	260 39					
VALENTIA 03953	092343	P	225 20	+++ ++	220 49	220 46	220 49	230 59	230 67	230 68	230 74	230 70									
	101200	T	200 04	210 11	+++ ++	230 30	+++ ++	240 46	+++ ++	240 55	240 64	240 90	+++ ++	250 64							
Ocean Weather Station 'I' 59°00'N 19°00'W	100000	T	200 25	+++ ++	210 32	220 33	230 28	210 27	180 29	210 31	210 42	220 58	210 58	220 60	230 46	230 48	220 54				
	100600	P	270 50	+++ ++	290 47	290 42	290 42	280 47	270 47	260 52	250 66	250 64	250 56	240 55							
	101200	T	260 18	+++ ++	250 21	250 20	250 21	250 28	250 31	240 48	240 69	230 65	230 57	220 54	240 51						
	101800	P	225 10	+++ ++	190 10	200 13	200 15	200 14	220 18	220 18	210 39	210 44	250 63	240 48	250 52						
Ocean Weather Station 'J' 52°30'N 20°00'W	100000	T	220 49	220 50	+++ ++	240 70	+++ ++	240 70	+++ ++	240 79	230 94	210 145	210 164								
	100500	T	240 16	+++ ++	+++ ++	230 35	+++ ++	230 44	220 60	220 73	220 93	220 101	+++ ++	220 105	220 72	220 67					
	101200	T	230 29	230 29	+++ ++	250 56	+++ ++	240 72	+++ ++	230 74	230 78	220 77									
	101700	P	230 27	+++ ++	260 45	250 45	+++ ++	250 51	250 61	250 69	250 69	250 80	+++ ++	250 68	250 62						
LARKHILL 03743	100730	P	210 11	+++ ++	250 43	260 39	260 34	260 47	270 48	280 50	270 50	270 56	270 54	280 56	290 50	280 59	280 22				
	101130	P	230 13	+++ ++	250 33	260 38	260 46	260 51	270 54	270 61	270 59	260 57	260 56	270 57	270 59	270 42	280 26				

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE	SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL Surf. 0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
101330	46°20'N 23°9'W	021 013 800	061 12 10	171	09 04	1045 07 02	1512 03 02	1999 00 12	03-24-	3057 05- 24-	09- 25-	4249 13- 34-	18- 37-	5611 22- 48-
Cloud :— 1/8 Ac at 9000 ft 1/8 Ci 25000 ft to TNG Inversion Levels :— Isothermal Levels :— 967. to 950mb 9°C														
YYGGgg	POSITION	PRESSURE	SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL Surf. 0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
Cloud :— Inversion Levels :— Isothermal Levels :—														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.										Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2				

STATION		MAX. WIND
LERWICK 03005	17100m 280 46 11400/1 11850/1 17400m 260 48 12900m 250 79	280 116 10620m 240 90 11200m 250 82 11500m 250 98 07740m
STORNOWAY 03026	09400/1 11710/1	240 81 07920m
SHANWELL 03170	13100m 250 60 00330/0 11600/1 137mb 250 54 13780/1	290 90 10200m 250 106 09700m 250 87 09200m 250 84 10710m
ALDERGROVE 03917	13000m 250 87 03690/0 127mb 250 48 07710/0 11820/1	270 86 10320m 250 112 10600m 250 96 10650m 240 107 09600m
AUGHTON 03322	128mb 280 48 01460/0 03590/1 11610/1 053mb 270 30 07880/0 10310/1 11150/1	300 75 10040m 270 81 11390m 250 80 09010m 260 90 10120m
HEMSBY 03496	238mb 330 95 225mb 330 64 15120m 290 39 11100/0 12750/1 14580/1 P24900m 290 29 21600m 290 36 06170/0 09060/0 14140/1	330 122 10410m 310 73 10850m 280 82 12130m 270 86 10740m
CRAWLEY 03774	P23100m 290 12 19500m 280 24 15000m 290 44 07160/0 08050/0 11700/1 13320/1	320 80 09770m 300 63 12680m 280 72 13720m 280 93 11420m
CAMBORNE 03808	17100m 260 39 139mb 250 63 18000m 260 34 11830/1 12150/1	290 76 13580m 260 63 14000m 250 84 11640m 250 93 10280m
VALENTIA 03953	00300m 210 39 00600m 210 50 10200m 230 69 612mb 240 45 445mb 240 70 255mb 240 89 194mb 250 65	230 80 06570m 240 93 09590m
Ocean Weather Station 'I' 59°00'N 19°00'W	13500m 230 57 127mb 240 56 06300m 220 30 10200m 240 54 15000m 260 50 10250/0 10650/1	240 65 11780m 240 69 08400m 240 75 06200m 260 64 10600m
Ocean Weather Station 'J' 52°30'N 20°00'W	267mb 200 172 900mb 230 29 800mb 230 40 238mb 220 118 099mb 220 67 582mb 230 86 530mb 230 65 333mb 230 82 225mb 220 83 800mb 250 43 124mb 250 43	200 172 09700m
LARKHILL 03743	19810m 270 26 20420m 280 25	260 66 11000m

NOTES ON THE AEROLOGICAL SITUATION

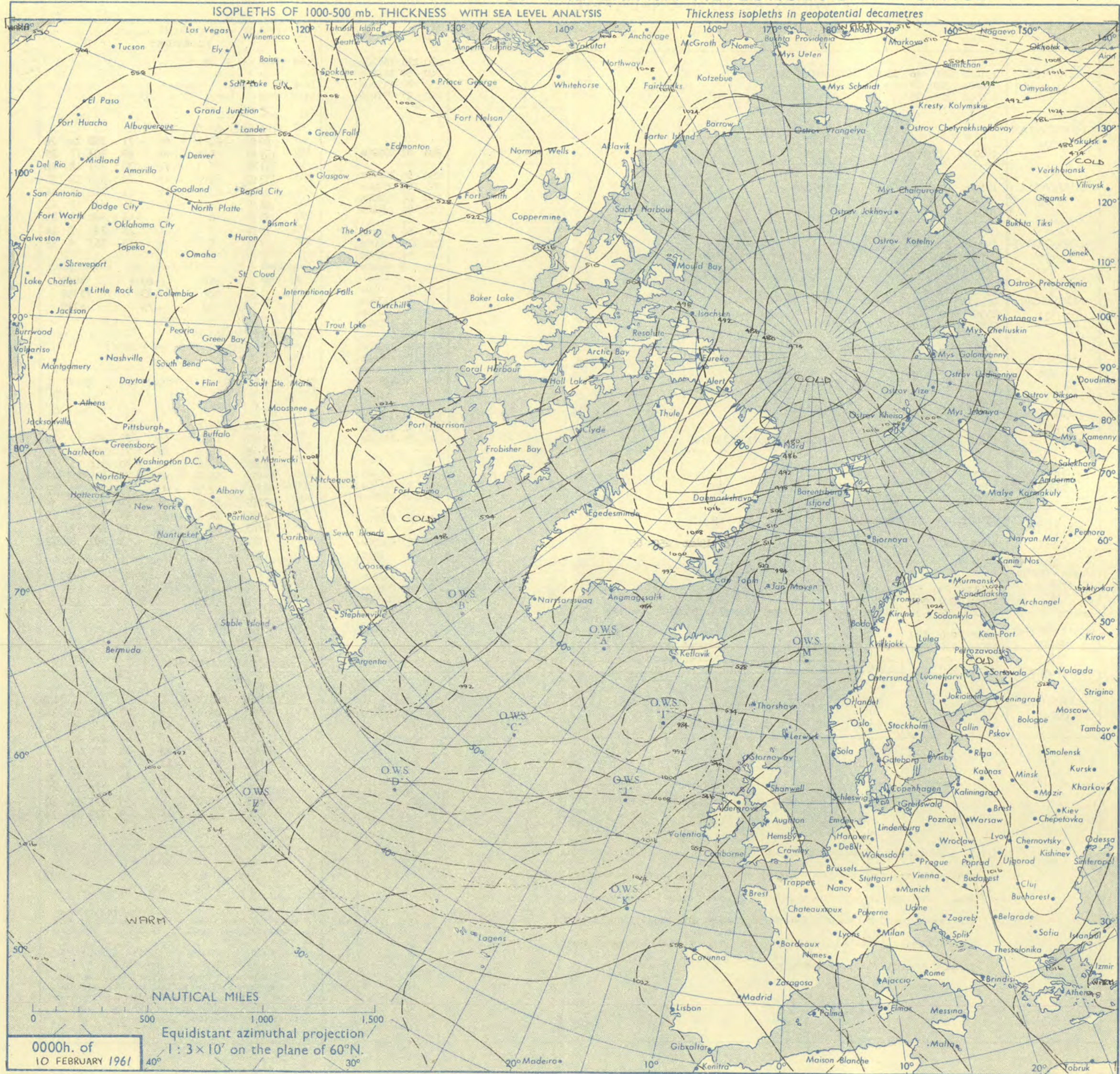
The nascent ridge which yesterday lay north east of the Azores has developed into a strong feature which is now moving eastwards over the North Sea. Over the Atlantic the west to northwest progression of minor troughs continues around the much broader trough whose main axis is still in the west Atlantic. The westward moving low north of Bermuda is a breakaway feature from the low near New York.

AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	46
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
		mb.	°C	mb.	mb.	°C	°C
Upper		98	-63.6	...	72	...	-73
Lower		230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. $51^{\circ} 12' \text{ N.}$, Long. $01^{\circ} 48' \text{ W.}$) up to 28th April, 1953.

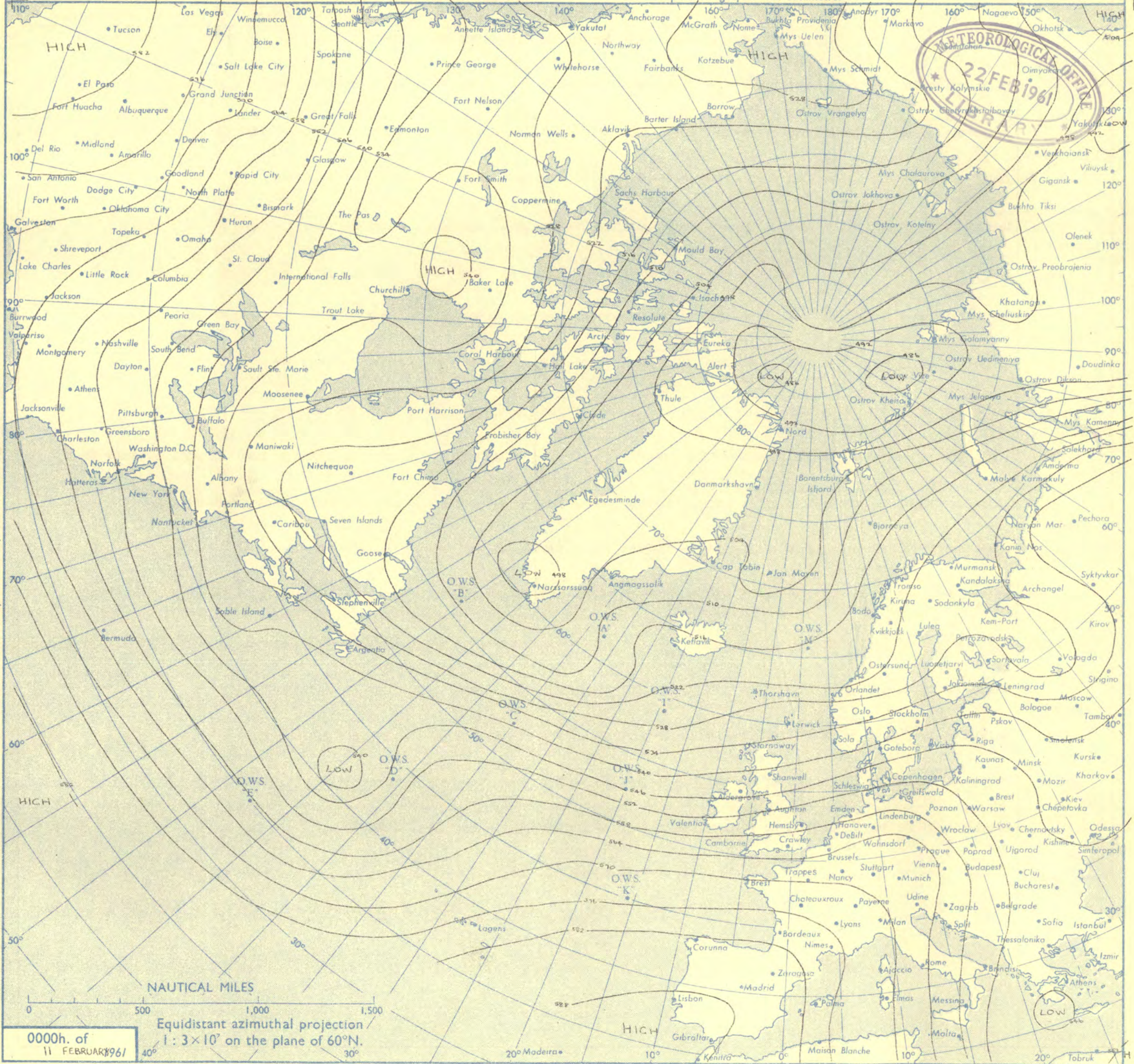
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



NAUTICAL MILES

Equidistant azimuthal projection
1: 3 x 10⁷ on the plane of 60°N.

0000h. of
11 FEBRUARY 1961

HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

11 February 1961

STATION	YYGGgg	SURFACE		1000mb		850mb		700mb		500mb		400mb		300mb		200mb		150mb		100mb		70mb		50mb		30mb	
		gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C
LERWICK 03005	102330	082	06 02	009	++ ++	1320	03- 06-	2829	12- 29-	5311	30- 36-	6856	43- ++	8736	56- ++	11334	51- 13207	50-									
	111130	082	06 04	010-	++ ++	1297	04- 07-	2798	14- 17-	5271	32- 39-	6802	45- ++	8654	59- ++	11265	51- 13135	52-									
STORNOWAY 03026	102330	013	05 04	038	05 03	1348	02- 05-	2861	12- 15-	5335	32- 37-	6876	43- ++	8755	56- ++	11362	51- 13230	52- 15846	54-								
	111135	013	05 03	029-	++ ++	1282	04- 10-	2784	14- 16-	5245	33- 41-	6778	44- ++	8695	47- ++	11382	48- 13268	50-									
SHANWELL 03170	102330	005	04 04	072	05 01	1389	01- 03-	2913	10- 21-	5412	27- 41-	6975	41- ++	8869	55- ++	11477	49- 13358	53- 15973	56-								
	111130	005	07 04	015	06 04	1330	01- 04-	2852	10- 15-	5359	28- 31-	6914	42- ++	8829	47- ++	11494	49- 13373	51- 15993	55- 18280	54- 20413	59-						
ALDERGROVE 03917	102330	077	07 05	107	07 04	1425	01- 08-	2950	09- 24-	5450	30- 41-	6999	42- ++	8899	51- ++	11507	52- 13389	50- 15991	57- 18259	58-							
	111130	077	09 03	050	++ ++	1369	02- 04-	2886	11- 19-	5405	20- 36-	7020	32- 48-	8985	48- ++	11576	56- 13427	52-									
AUGHTON 03322	102330	056	08 08	131	08 06	1463	02 01-	3004	07- 12-	5530	26- 30-	7104	39- 43-	9014	54- ++	11608	53- 13454	54- 16044	50-								
	111130	056	09 07	095	09 06	1413	01- 04-	2930	13- 16-	5429	25- 35-	7024	34- 44-	8978	49- ++	11579	54- 13401	58- 15988	54- 18239	56- 20364	61-						
HEMSBY 03496	102330	012	10 07	147	08 06	1477	03 01	3020	06- 16-	5565	24- 34-	7155	35- 39-	9091	51- ++	11632	59- 13459	54- 16023	60- 18267	57-							
	111130	012	11 06	122	09 04	1445	02 11-	2974	10- 17-	5469	27- 32-	7047	36- 49-	8983	50- ++	11570	55- 13409	55-									
CRAWLEY 03774	102330	144	08 07	179	08 06	1514	04 01	3067	06- 10-	5617	25- 36-	7217	34- 41-	9162	51- ++	11704	62- 13525	54- 16100	59- 18334	60- 20438	60-						
	111130	144	10 08	160	10 08	1486	03 03-	3032	07- 23-	5570	23- 40-	7168	34- 49-	9123	47- ++	11696	63- 13502	56- 16077	58- 18348	55- 20469	59- 23674	58-					
CAMBORNE 03808	102330	088	10 10	197	09 07	1528	02 00	3070	07- 11-	5608	24- 42-	7198	36- ++	9124	52- ++	11703	55- 13537	55- 16106	59-								
	111130	088	10 09	191	09 07	1517	05 20-	3077	04- 19-	5639	22- 41-	7254	31- 48-	9230	46- ++	11799	66- 13572	61- 16115	59- 18363	57-							
VALENTIA 03953	102330	014	09 08	161	08 07	1485	01 12-	3016	10- 23-	5520	28- 34-	7080	40- ++	9000	50- ++	11600	54- +++++	++	16030	57-							
	111200	014	11 09	149	10 08	1479	02 02-	3033	03- 11-	5620	17- 21-	7250	30- 34-	9250	44- ++	11840	65- +++++	++	16120	60-							
Ocean Weather Station 'I' 59°00'N 19°00'W	110001		06 02	031-	++ ++	1276	04- 04-	2776	15- 18-	5230	34- 39-	6760	47- ++	8630	54- ++	11290	48- 13180	49- 15820	52-								
	111200		07 02	021-	++ ++	1286	04- 07-	2786	14- 17-	5250	33- 39-	6810	35- 45-	8760	48- ++	11390	50- 13270	51-									
Ocean Weather Station 'J' 52°30'N 20°00'W	110001		10 09	059	09 09	1380	00 00	2915	09- 10-	5420	27- 37-	7000	35- 48-	8950	49- ++	11540	56- 13370	54- 15950	56- 18210	56- 20340	58-						
	111200		08 05	113	07 04	1430	01 11-	2974	04- 12-	5560	18- 24-	7180	29- 36-	9170	45- ++	11760	61- 13570	56- 16140	55- 18240	52- 20620	49-						

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	25 784++	001	991	901	900 00 02- 784 08- 12- 760 08- 18- 740 10- 27- 657 ++ 35- 578 ++ 30- 510 29- 35- 423 40- 46- 380 47- 283 58- 234 53- 143 50- 108 54-	283	09100	58-
	02 15571	999	989	919	969 03 00 780 ++ 12- 760 ++ 14- 685 15- 19- 600 21- 27- 520 ++ 36- 440 40- 46- 317 58- 298 59- 285 56- 261 56- 216 50- 120 54-	317	08300	58-
STORNOWAY 03026	62 855++	005	003	899	990 ++ 03 784 06- 09- 612 20- 23- 555 ++ 31- 536 29- 34- 498 ++ 37- 461 ++ 46- 421 40- 50- 332 53- 303 56- 210 51- 098 55-	303	08670	56-
	81 894++	997	995	893	982 05 01 891 00 04- 848 ++ 10- 799 08- 10- 647 18- 21- 543 29- 35- 437 40- 49- 386 45- 138 50- 51- 098 55-	386	07010	45-
SHANWELL 03170	02 825++	009	008	865	002 05 01 991 06 02 940 04 02 795 04- 07- 744 06- 16- 651 ++ 22- 621 ++ 30- 560 23- 34- 532 26- 38- 511 26- 40- 407 40- 50- 369 46- 297 55- 234 55- 188 48- 148 53- 136 53- 129 51- 100 56- 095 57- 085 56-	297	08930	55- 148 13450 53- 095 16310 57-
	21 7747+	002	001	865	992 ++ 02 949 03 01 913 ++ 00 890 02 02- 839 ++ 05- 780 ++ 10- 764 ++ 09- 673 12- 18- 610 18- 21- 510 ++ 29- 417 40- 43- 381 45- 349 47- 100 55- 065 53- 055 60- 052 58- 043 63- 031 58-	349	07800	47- 043 21350 63-
ALDERGROVE 03917	01 16400	013	004	873	984 07 04 862 01- 07- 828 02- 13- 758 07- 18- 733 07- 22- 452 36- 46- 359 48- 349 48- 267 55- 225 54- 163 48- 116 56- 095 58- 078 54- 070 58-	267	09630	55- 116 15030 56-
	25 593++	006	997	878	878 ++ 02- 822 04- 06- 734 08- 13- 691 ++ 21- 641 16- 28- 571 20- 34- 538 20- 35- 520 19- 35- 405 31- 47- 249 58- 206 57- 157 51- 118 56-	249	10170	58-
AUGHTON 03322	46 855++	016	009	814	000 08 06 974 08 06 903 06 02 814 00 03- 719 05- 09- 664 11- 15- 525 23- 27- 394 40- 43- 291 55- 214 54- 207 52- 131 58- 098 50-	291	09210	55-
	02 755++	012	005	870	994 08 04 855 01- 04- 838 00 04- 815 ++ 08- 661 16- 19- 495 ++ 36- 440 29- 39- 354 40- 50- 260 56- 190 54- 159 60- 110 52- 082 61- 064 54- 053 61- 046 60-	260	09900	56- 159 13040 60- 082 17250 61- 1053 20000 61-
HEMSBY 03496	02 855++	018	016	798	999 08 06 936 05 04 907 06 04 867 ++ 01 846 03 01 809 ++ 03- 750 04- 05- 731 ++ 10- 701 06- 16- 677 ++ 21- 600 14- 26- 545 ++ 27- 498 ++ 34- 439 32- 36- 368 40- 44- 322 48- 228 64- 214 64- 210 61- 155 53- 106 60- 068 57- 061 60- 052 61-	228	10800	64- 106 15680 60- 061 19170 60-
	02 7857+	015	013	830	945 04 02 934 ++ 03 906 02 02- 889 04 07- 770 ++ 17- 741 ++ 20- 704 ++ 19- 690 ++ 16- 526 28- 31- 507 29- 34- 503 27- 32- 485 ++ 37- 449 32- 42- 416 34- 47- 329 47- 268 56- 248 58- 233 54- 215 57- 178 54- 128 59-	248	10200	58-
CRAWLEY 03774	50 871++	022	004	771	995 ++ 06 841 04 01 769 00 03- 694 07- 11- 652 08- 17- 648 ++ 20- 509 ++ 36- 491 26- 37- 472 25- 34- 360 ++ 46- 338 44- 225 65- 156 54- 104 59- 044 60-	225	11000	65-
	02 784++	019	002	776	993 ++ 06 959 06 03 873 02 01- 857 03 02- 827 03 07- 804 ++ 08- 767 ++ 16- 695 ++ 24- 665 ++ 19- 637 13- 23- 556 ++ 35- 481 24- 41- 401 24- 49- 249 56- 212 63- 133 54- 093 59- 074 54- 059 59- 052 58- 040 61- 037 58- 030 58-	212	11330	63- 059 19420 59-
CAMBORNE 03808	20 864++	024	013	792	000 ++ 07 949 06 06 927 06 04 875 03 02 847 ++ 01- 823 ++ 08- 813 02 09- 799 ++ 11- 750 04- 06- 726 ++ 12- 715 ++ 11- 675 09- 13- 665 ++ 16- 600 ++ 26- 580 17- 24- 576 17- 23- 562 17- 28- 526 21- 38- 432 32- 50- 288 55- 261 58- 213 55- 080 58-	261	10000	58-
	21 664++	023	012	751	980 07 05 893 02 01 866 06 18- 827 05 24- 728 ++ 15- 692 04- 19- 623 11- 26- 493 23- 42- 416 29- 49- 366 36- 48- 228 61- 199 67- 180 66- 168 60- 096 59- 070 57-	199	11820	67-
VALENTIA 03953	01 00900	019	018	835	910 02 01 881 03 06- 759 05- 20- 707 10- 24- 650 13- 22- 478 30- 36- 415 40- 400 40- 278 53- 219 56- 213 56- 189 53- 171 56- 162 54- 123 54- 112 54- 104 57- 070 59- 061 58-	278	09400	53-
	03 824++	018	017	800	984 10 08 882 02 01 872 03 01 775 01- 10- 757 00 11- 645 06- 16- 595 10- 24- 564 13- 22- 540 15- 20- 504 17- 21- 434 26- 30- 328 39- 45- 269 50- 181 70- 162 55- 134 63- 106 60- 083 60-	181	12500	70- 134 14300 63-
Ocean Weather Station 'I' 59°00'N 19°00'W	25 31500	996	996	922	977 ++ 00 912 01- 02- 877 02- 03- 848 04- 04- 795 ++ 12- 773 09- 13- 751 ++ 13- 716 14- 17- 661 18- 23- 621 ++ 27- 608 ++ 32- 448 40- 46- 402 46- 364 51- 355 50- 323 54- 294 54- 275 49- 180 47- 104 53- 092 52-	323	08100	54-
	02 59561	998	998	916	930 01 01- 888 ++ 07- 817 07- 09- 805 ++ 09- 767 09- 13- 672 ++ 20- 587 24- 26- 502 33- 39- 475 36- 41- 432 34- 42- 385 36- 47- 365 39- 50- 273 52- 251 53- 189 50- 162 52- 142 51- 117 53- 103 53-	251	09900	53-
Ocean Weather Station 'J' 52°30'N 20°00'W	885++	006	006	870	990 08 08 870 00 00 765 03- 03- 560 23- 26- 523 26- 35- 470 30- 42- 430 32- 44- 364 40- 52- 280 52- 237 57- 175 56- 125 57- 060 57- 040 59-	237	10400	57-
	11557	013	013	800	956 02 00 900 00 12- 867 02 11- 800 00 12- 757 01- 09- 617 10- 14- 524 15- 20- 462 21- 26- 333 40- 48- 288 49- 235 57- 213 63- 167 56- 120 59- 047 48-	213	11300	63-

STATION*	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	102330	T	270 24	+++ ++	280 33	280 37	280 33	270 39	260 34	260 42	250 54	250 54	250 57	260 51							
	110530								NO WINDS REPORTED												
	111130	T	140 06	+++ ++	140 10	180 09	220 10	250 16	260 25	250 29	270 43	270 41	280 41	280 48	280 44						
	111735	P	080 06	+++ ++	130 11	140 11	160 09	170 04	260 02	210 12	210 24	290 46	290 57	300 55	300 53						
STORNOWAY 03026	102330	T	170 05	+++ ++	200 18	210 22	230 16	240 18	230 19	240 23	250 37	250 45	260 49	260 52	260 53						
	110530	P	260 08	+++ ++	260 23	260 25	260 30	260 33	250 34	260 40	260 45	260 56	270 57	280 58	280 48	280 46					
	111135	T	260 13	+++ ++	250 32	260 34	240 29	230 28	240 32	230 40	210 28	270 52	280 60	280 65	290 55						
	111740	P	270 18	+++ ++	280 31	270 32	290 30	290 33	290 43	300 51	300139	300155	300104								
SHANWELL 03170	102330	T	230 10	+++ ++	260 45	260 50	250 48	250 48	250 49	250 45	250 52	240 56	250 56	260 56	270 46	270 45					
	110530	P	220 15	+++ ++	270 45	280 53	280 55	280 58	280 55	290 52	280 52	270 59	270 67	280 60							
	111130	T	220 14	+++ ++	240 45	250 50	250 45	240 45	240 37	240 33	240 31	280 86	280 80	290 72	290 60	280 48	310 46	280 40			
	111730	P	270 14	+++ ++	280 40	280 48	290 47	290 44	300 42	300 67	310130	300144	300115	310 56							
ALDERGROVE 03917	102330	T	230 16	+++ ++	260 36	260 43	270 51	280 51	280 59	270 55	260 55	260 58	260 67	260 69	270 42	270 51					
	110530	P	200 13	+++ ++	250 40	260 45	260 51	260 44	260 44	250 53	280 83	280124	280105	280 84	280 45						
	111130	T	250 23	+++ ++	270 52	270 58	270 55	270 63	270 60	280112	290121	290123									
	111730	P	260 22	+++ ++	280 44	290 46	300 48	290 70	290 92	300 97	300117	300122	290123	300 98							
AUGHTON 03322	102330	T	250 11	+++ ++	280 31	270 31	260 42	270 45	260 44	250 57	240 67	250 90	260 70	260 54	260 46						
	110530	P	270 05	+++ ++	270 25	270 31	270 43	270 43	260 45	260 53	280 67	300103	290 85	290 69	290 61	270 48					
	111130	T	250 15	+++ ++	260 43	270 47	270 52	270 50	270 60	290 96	290113	300131	300111	300 84	300 56						
	111730	P	280 20	+++ ++	290 50	290 55	290 52	290 67	300100	300 99	310113	310130	310129	300 89	310 56	320 57	310 54				
HEMSBY 03496	102330	T	240 16	+++ ++	270 40	270 32	270 43	270 42	250 41	250 47	250 64	260 90	250 98	260 73	270 61	270 40	290 37				
	110530	P	270 15	+++ ++	290 33	290 33	290 34	290 36	280 38	280 43	260 49	270 63	280 62	290 50	280 51	290 43	290 42	290 24			
	111130	T	260 15	+++ ++	270 33	270 33	260 38	270 42	270 47	280 62	300 97	300117	310111	300 77	290 48						
	111730	P	260 23	+++ ++	280 33	280 52	280 53	290 50	290 85	300107	300112	310135	310134								
CRAWLEY 03774	102330	T	240 15	+++ ++	260 33	260 35	270 39	270 41	260 49	270 49	250 70	250 87	250 91	260 76	270 33						
	110530	P	270 03	+++ ++	270 29	280 34	290 31	280 36	280 42	280 53	290 66	310 90	300 89	300 72	300 50						
	111130	T	260 15	+++ ++	270 43	270 43	280 43	290 43	290 55	300 74	300 84	310101	300 90	300 97	290 63						
	111730	P	260 15	+++ ++	270 38	280 53	290 66	290 69	300 77	300 82	310 83	310104	310111	320103	310 70	290 34					
CAMBORNE 03808	102330	T	250 22	+++ ++	270 32	280 35	280 40	270 36	260 44	260 58	260 70	250 80	250 79	270 64	270 59	270 43					
	110530	P	240 15	+++ ++	260 30	270 36	270 43	280 48	280 56	290 66	290 78	300 90	300 93	290 84	290 52	270 50					
	111130	T	230 18	+++ ++	260 41	270 41	280 41	280 46	290 57	290 72	300 76	300 88	310 87	300 91	300 62	290 43					
	111730	P	260 18	+++ ++	280 35	290 39	290 44	290 44	290 59	290 61	300 62	310 67	300 70	300 66	300 44	310 36	300 31				
VALENTIA 03953	102330	T	200 03	220 09	+++ ++	250 25	+++ ++	250 38	+++ ++	260 48	270 70	290106	+++ ++	290 72							
	111200	T	250 19	250 22	+++ ++	270 48	+++ ++	280 63	+++ ++	290 89	290 86										
Ocean Weather Station 'I' 59°00'N 19°00'W	110001	T	180 21	+++ ++	190 16	190 15	210 19	210 24	240 19	240 47	230 58	240 40	250 46	260 49	270 53	280 54					
	110600	P	090 20	+++ ++	110 14	110 13	130 10	200 03	270 03	230 12	230 17	260 57	250 65	270 63							
	111200	T	290 10	+++ ++	290 04	270 04	260 07	280 07	270 15	230 23	280121	280138	270108	270 87	260 63						
	111800	P	315 10	+++ ++	250 20	250 22	240 15	220 20	250 32	270 74	260100	260119	270124	270107	260 71	260 71	260 55	260 45	260 46		
Ocean Weather Station 'J' 52°30'N 20°00'W	110001	T	210 40	210 41	+++ ++	240 50	+++ ++	240 54	+++ ++	250 95	270113	260109									
	110500	T	250 42	+++ ++	+++ ++	260 57	+++ ++	260 79	260 97	250 93	260101	290122									
	111200	T	270 25	270 27	+++ ++	260 58	+++ ++	260 67	+++ ++	250 82	260100	260 90	+++ ++	260 73							
	111700	P	120 14	+++ ++	+++ ++	190 52	+++ ++	240 65	240 60	230 77	250 71	250 70	+++ ++	250 70							
LARKHILL 03743																					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

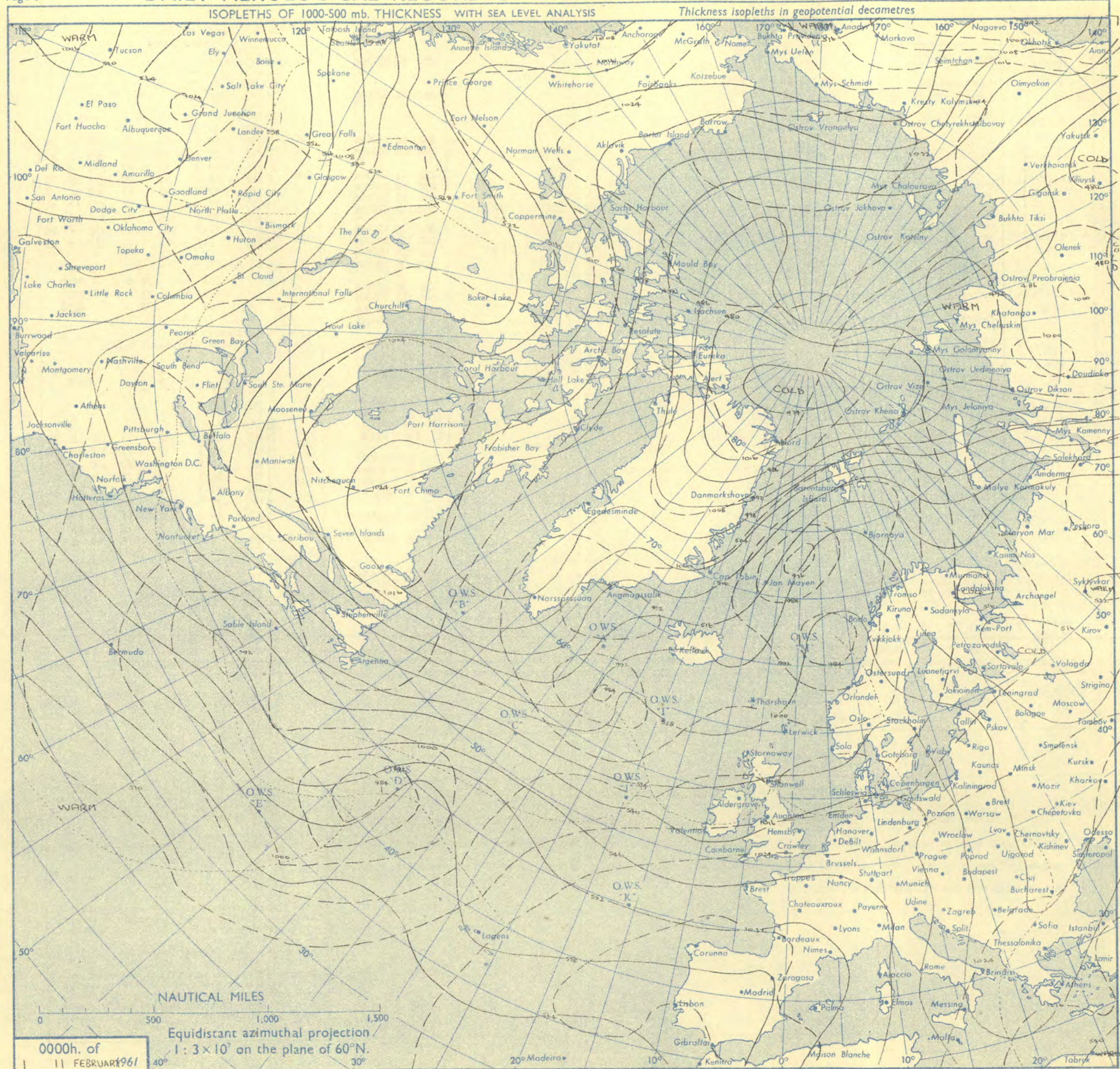
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
111230	52.0°N 24.5°W	009 002 815	061 06 06	076	05 05	936 04 04	1399 02 02	1887 01- 01-	02- 02-	2950 03- ++	05- ++	4161 08- ++	11- ++	5563 16- ++
Cloud :— 8/8 NS. 600 ft. to TNR. Inversion Levels :— 956 to 950mb 44°C to 50°C Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
111355	49.3°N 19.8°W	017 009 740	061 10 10	140	09 09	1015 11 02-	1487 07 03-	1984 05 03-	01 02-	3057 03- 04+	06- 06+	4267 09- 10+	13- ++	5657 16- ++
Cloud :— 8/8 Sc. 1200 to 1700 ft. 4/8 Sc. 2000 to 2200ft. 2/8 Ac. 10000 to 12000 ft. 7/8 As. 18000 to 19000 ft. 3/8 Cs. 24000 ft. to HNG. Inversion Levels :— 963 to 900mb 74°C to 104°C Isothermal Levels :—														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.										Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2				

STATION		MAX. WIND
LERWICK 03005	160mb 270 47 130mb 280 50 15000m 290 50 03730/9 07770/2 08560/0	250 62 08110m 290 61 10000m
STORNOWAY 03026	106mb 270 52 336mb 260 38 05520/0 05740/0 06110/0 06530/0 07530/0 09740/1 10010/1	280 66 11260m 300 156 09100m
SHANWELL 03170	13200m 280 56 358mb 260 51 06000m 300 99 11280m 300 88 13500m 320 40 05090/0 05600/0 06030/0 06450/0 07600/0	250 67 10910m 270 69 09700m 290 88 10610m 300 182 07820m
ALDERGROVE 03917	080mb 270 45 06700/3 07200/0 07700/0 10800/1 13200/1 562mb 280 75 13500m 300 76 03400/0 11070/1	260 77 12060m 280 126 09170m 290 130 08880m 300 130 09690m
AUGHTON 03322	107mb 260 55 07500m 290 82 16800m 270 34 07480/0 07840/0 19500m 300 24 02760/0 03200/0 03570/0 07450/0 11750/1 12290/1	250 92 09300m 300 111 08460m 300 136 09290m 310 135 10320m
HEMSBY 03496	356mb 250 77 09890/1 04080/0 05910/0 07120/0	250 100 10600m 280 76 09650m 300 126 09120m 310 140 09950m
CRAWLEY 03774	108mb 280 34 15000m 290 45 122mb 300 40 17400m 320 29 00820/0 01920/0 07200/0 12600/1	260 96 11080m 310 97 08460m 310 102 09400m 320 115 11400m
CAMBORNE 03808	082mb 280 36 12300/1 080mb 290 42 07420/3	250 88 09530m 300 94 09730m 300 91 09060m 320 74 08200m
VALENTIA 03953	910mb 250 22 759mb 250 32 278mb 290 95 882mb 270 43 757mb 270 58 595mb 280 49 328mb 300 89	300 107 09100m 290 95 08180m
Ocean Weather Station 'I' 59°00'N 19°00'W	540mb 240 31 07800m 240 27 13800m 290 60 07800/0 08800/0 553mb 250 18 442mb 270 72 107mb 270 45 25800m 260 30 03260/5 04050/0 04480/3	230 63 06650m 270 72 12520m 280 147 08100m 270 126 10730m
Ocean Weather Station 'J' 52°30'N 20°00'W	870mb 240 57 800mb 250 47 523mb 250 70 317mb 260 120 284mb 260 101 900mb 260 52 800mb 260 64 342mb 260 128 247mb 260 118 376mb 260 107 247mb 260 78 213mb 260 91 900mb 170 38 800mb 230 64 732mb 230 56 175mb 250 78	260 107 07600m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The ridge over Germany is declining and swinging southwards around the east European trough and a strong westerly flow has again penetrated into northwest Europe. In the west Atlantic the flow is being distorted by the developing low southeast of Newfoundland. The remnant of the old west Atlantic trough is moving quickly eastwards while another trough is developing over the St. Lawrence estuary.

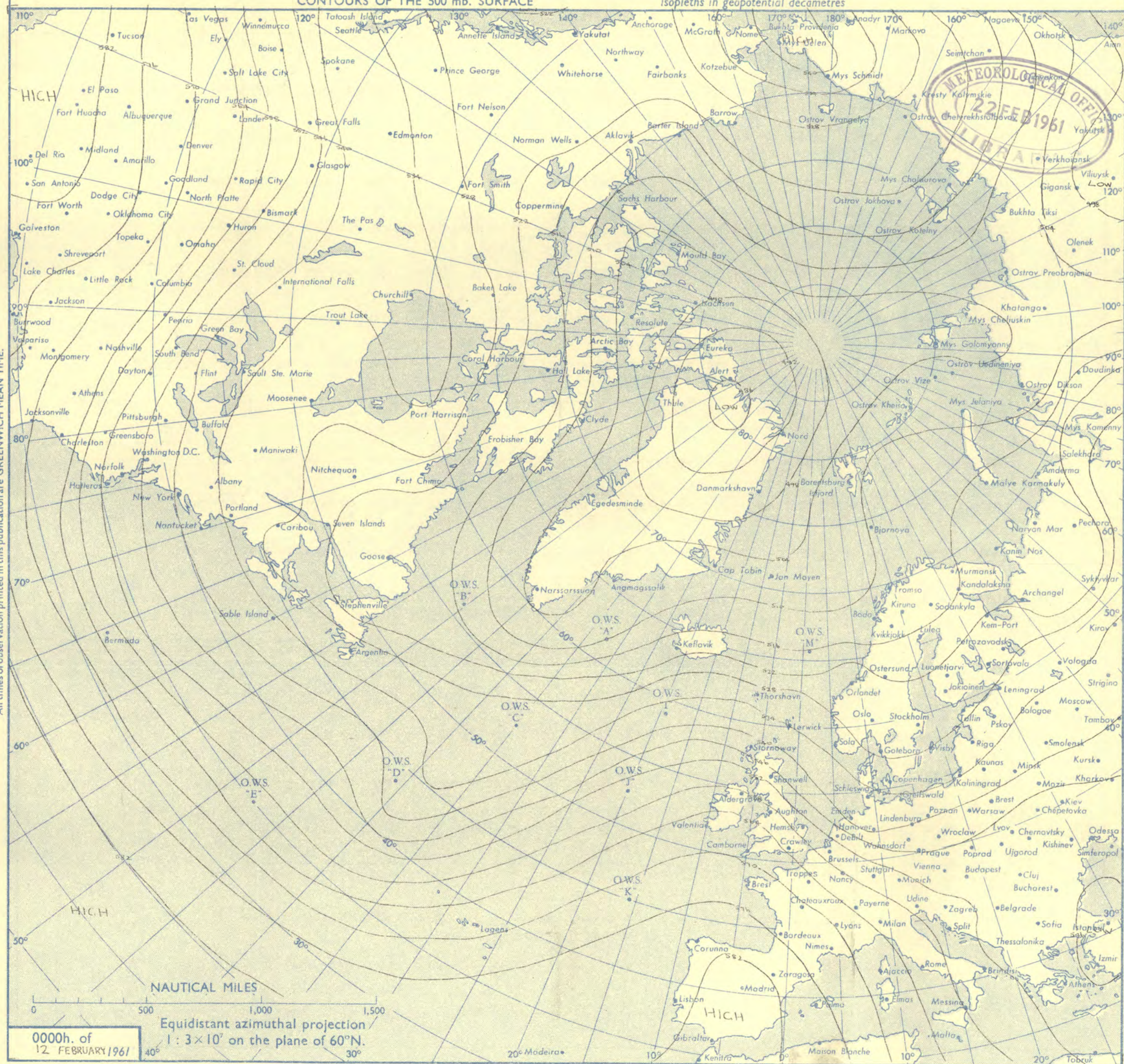
AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		V _S
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	41
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY † (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		V _S
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		V _S
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		98	-63.6	...	72	...	-73
		230	-58.2	350	...	-52	...
* V _R = Vector average wind. V _S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.							
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.							
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.							



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



NAUTICAL MILES

Equidistant azimuthal projection
 $1:3 \times 10^7$ on the plane of 60°N .

0000h. of
 12 FEBRUARY 1961

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C						
LERWICK 03005	112330	082	04	03	026	++	++	1334	04	06	2839	14	16	5304	33	37	6839	40	45	8773	49	++	11395	53	13264	53	15856	56	18125	57										
	121130	082	06	04	072	++	++	1381	01	09	2900	11	29	5419	22	25	7035	31	34	9015	46	++	11607	61	13372	63	15892	60	18118	60	20200	64	23309	67						
STORNOWAY 03026	112345	013	06	05	052	06	04	1366	02	03	2886	10	27	5411	22	43	7025	32	37	9000	47	++	11572	61	13398	56	15977	57	18228	60										
	121212	013	07	06	022	07	06	1343	02	01	2902	03	04	5484	19	39	7104	32	++	9080	46	++	11664	63	13459	57	16033	56												
SHANWELL 03170	112330	005	05	02	052	07	03	1370	00	06	2902	09	22	5450	20	35	7066	32	39	9036	47	++	11600	61	13401	56	15979	58	18214	59	20325	57	23500	65						
	121130	005	05	05	090	05	03	1407	01	02	2958	04	08	5552	17	22	7183	30	36	9163	46	++	11733	67	13525	57	16102	57												
ALDERGROVE 03917	112330	077	06	03	115	05	02	1426	02	10	2968	05	07	5555	18	21	7182	30	34	9156	47	++	11718	66	13511	58	16043	61												
	121130	077	10	08	091	10	08	1434	07	02	3001	03	05	5593	18	23	7216	31	36	9191	47	++	11756	66	13546	58	16077	60	18314	59										
AUGHTON 03322	112330	056	07	04	131	07	03	1443	03	08	2974	05	08	5551	19	22	7173	30	34	9151	46	++	11718	67	13479	61	16005	62	18235	60										
	121150	056	11	09	130	11	07	1465	06	09	3029	04	10	5626	18	23	7258	29	36	9248	45	++	11820	68	13578	60	16127	59												
HEMSBY 03496	120025	012	06	02	117	06	00	1430	02	13	2947	10	24	5525	18	29	7155	30	36	9138	46	++	11706	67	13501	57	16065	57	18296	59	20416	59								
	121130	012	08	06	164	07	04	1486	01	01	3033	03	06	5638	17	20	7275	28	33	9271	44	++	11864	64	13629	60	16181	59	18415	60										
CRAWLEY 03774	112330	144	08	06	156	08	06	1477	01	04	3029	03	06	5636	16	22	7277	28	33	9273	45	++	11853	66	13630	56	16195	58	18427	60										
	121130	144	09	07	180	08	06	1514	06	00	3074	04	11	5659	18	21	7290	29	34	9284	45	++	11858	66	13611	61	16138	62	18357	61	20451	62	23617	62						
CAMBORNE 03808	112330	088	09	08	193	09	08	1530	05	02	3095	02	07	5701	17	20	7335	29	32	9318	46	++	11879	69	13627	61	16127	62												
	121130	088	10	09	186	08	06	1522	09	21	3101	01	08	5693	17	35	7329	29	49	9323	45	++	11912	64	13677	58	16206	61												
VALENTIA 03953	120000	014	10	09	148	09	09	1484	06	02	3051	02	03	5660	16	20	7290	29	34	9280	46	++	11840	69	++++	++	16110	62												
	121130	014	10	08	125	09	07	1470	08	17	3037	00	35	5630	20	39	7250	30	46	9230	46	++	11800	65	++++	++	16170	56												
Ocean Weather Station 'I' 59°00'N 19°00'W	120000		07	01	010	++	++	1298	05	08	2815	07	12	5380	19	22	7010	29	32	9000	45	++	11590	60	13410	54	16010	55												
	121200		09	09	131	++	++	1204	03	02	2765	04	05	5350	20	25	6960	33	38	8920	49	++	11510	52	13370	52	15990	54												
Ocean Weather Station 'J' 52°30'N 20°00'W	120000		11	11	016	10	10	1350	05	05	2928	02	02	5530	17	20	7150	30	35	9120	47	++	11680	65	13460	60	15990	59	18220	++										
	121200		11	11	001	++	++	1340	06	06	2917	02	03	5510	18	24	7140	30	40	9120	47	++	11720	55	13560	53	16160	56	18430	++										

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 38400	003 993 908	985 05 03 978 ++ 01 729 ++ 11- 583 24- 27- 543 29- 34- 446 40- 44- 438 41- 418 42- 410 40- 364 42- 263 54-	166 50- 137 55- 100 56- 065 59-		263 09610 54-	137 13850 55-	
	02 4557+	009 999 923	991 ++ 03 917 01- 02- 844 01- 10- 700 11- 29- 624 ++ 33- 617 20- 31- 600 17- 26- 576 18- 24- 509 22- 25- 492 22-	25- 458 ++ 27- 419 28- 31- 336 40- 43- 220 60- 211 59- 181 65- 109 59- 100 60- 064 60- 052 64- 030 67-		181 12220 65-		
STORNOWAY 03026	25 885++	007 005 888	991 06 04 831 04- 05- 809 04- 06- 791 04- 10- 764 05- 18- 629 17- 36- 599 19- 38- 557 17- 41- 493 23- 43- 459 25-	36- 390 34- 39- 380 34- 39- 337 40- 46- 215 64- 204 64- 193 56- 083 57- 071 60- 054 60-		215 11110 64-	(071 18140 60-	
	61 674++	003 001 745	936 03 02 776 02 01 665 05- 06- 620 ++ 10- 598 ++ 15- 554 16- 19- 542 ++ 21- 532 16- 28- 515 ++ 37- 487	++ 43- 378 34- ++ 337 40- 49- 244 56- 219 63- 194 65- 184 61- 131 55- 072 59-		194 11840 65-		
SHANWELL 03170	02 00900	006 006 868 835	998 07 03 990 ++ 02 880 ++ 02- 857 01- 06- 835 00 07- 792 02- 14- 645 13- 27- 609 15- 30- 570 15- 31-	499 20- 35- 369 38- 44- 205 66- 197 59- 169 60- 147 55- 100 58- 061 60- 051 56- 038 61- 036 60- 030 65-		205 11430 66-	1030 +++++ 65-	
	61 864++	011 011 793	995 ++ 03 744 02- 06- 554 12- 17- 469 21- 27- 336 40- 46- 200 67- 185 61- 179 63- 141 55- 100 57- 087 58-			200 11733 67-		
ALDERGROVE 03917	21 856++	014 005 900	889 01- 04- 866 01- 09- 835 03- 10- 814 00 02- 710 ++ 07- 602 09- 13- 505 ++ 21- 407 29- 33- 341 40- 44- 252	57- 192 67- 171 57- 113 62- 094 58- 077 59-		192 11980 67-		
	01 364++	011 002 740	998 ++ 07 921 06 04 895 ++ 03 885 09 05 875 ++ 06 838 ++ 00 793 03 02- 778 ++ 02- 768 ++ 06- 755 01 07-	724 ++ 04- 704 03- 05- 598 ++ 13- 585 ++ 14- 568 12- 16- 533 15- 22- 512 16- 21- 435 ++ 30- 402 31- 35-		190 12080 68-		
AUGHTON 03322	02 855++	016 009 899	999 ++ 03 858 03- 07- 821 03- 16- 798 ++ 20- 766 05- 18- 748 03- 10- 731 ++ 07- 567 13- 16- 425 27- 30- 336	40- 44- 193 68- 157 61- 067 60-		193 11920 68-		
	02 7097+	010 009 748	005 ++ 07 995 09 07 917 05 03 900 ++ 04 885 07 02- 878 ++ 07- 802 ++ 14- 780 02 06- 716 ++ 07- 705 ++	10- 681 05- 07- 634 09- 12- 621 08- 11- 564 12- 16- 533 13- 18- 491 19- 24- 478 20- 28- 458 22- 32- 408		197 11910 68-		
HEMSBY 03496	02 00900	014 013 872	000 ++ 00 928 02 03- 900 ++ 07- 888 01 10- 835 ++ 13- 819 ++ 16- 737 09- 21- 699 11- 25- 657 08- 26- 626	08- 27- 539 ++ 32- 507 17- 29- 393 30- 36- 334 40- 46- 264 54- 198 67- 189 62- 155 57- 075 60- 056 57- 045		198 11790 67-		
	50 874++	020 018 829	005 07 04 947 04 02 798 01- 03- 684 04- 08- 577 10- 14- 449 ++ 25- 323 40- 46- 219 61- 169 67- 163 62- 141	57- 068 60-		169 12900 67-		
CRAWLEY 03774	02 55500	019 001 869 758	996 ++ 05 916 04 02 895 ++ 01- 844 02- 05- 824 ++ 14- 804 ++ 22- 792 01 18- 761 ++ 04- 660 04- 08- 532	++ 16- 512 15- 20- 382 30- 35- 326 ++ 45- 257 54- 181 70- 164 57- 094 58- 072 61- 066 57- 060 58-		181 12460 70-		
	02 354++	022 004 761	000 08 06 939 04 02 928 ++ 03 906 09 00 890 ++ 04- 875 ++ 02 865 08 02 817 ++ 02- 804 ++ 01- 771 ++ 04-	747 ++ 03- 708 04- 06- 700 ++ 11- 688 04- 10- 681 ++ 09- 649 ++ 18- 618 ++ 20- 591 ++ 25- 580 ++ 19- 566 ++	16- 491 19- 22- 360 34- 41- 327 ++ 48- 212 65- 182 68- 173 65- 131 58- 106 63- 086 59- 082 62-	182 12420 68- 106 15790 63- (037 22310 63-		
CAMBORNE 03808	02 863++	024 013 752	950 06 06 936 ++ 01 911 08 00 870 ++ 01 805 ++ 06- 752 ++ 03- 722 ++ 07- 688 03- 08- 620 08- 13- 605 ++	13- 590 09- 17- 550 ++ 18- 527 ++ 17- 497 17- 20- 335 40- 43- 203 68- 191 70- 150 61- 120 64- 082 62- 077		191 12150 70-		
	50 863++	023 012 717	006 ++ 07 994 08 06 920 ++ 02 916 03 01- 903 ++ 07- 898 08 09- 882 ++ 14- 858 10- 18- 835 ++ 26- 802 ++	03- 710 ++ 07- 672 03- 10- 658 ++ 12- 580 14- 18- 568 13- 20- 558 ++ 24- 542 12- 26- 510 ++ 34- 452 23-		179 12580 68-		
VALENTIA 03953	58 864++	018 016 730	967 07 06 929 06 05 900 07 04 831 06 00 788 03 02 690 03- 04- 588 10- 13- 566 10- 14- 522 15- 18- 505 16-	20- 417 27- 32- 407 28- 33- 276 51- 208 67- 193 70- 172 64- 150 60- 125 62- 118 60- 078 61- 050 62-		190 12100 70-		
	25 723++	015 014 700	970 07 03 954 08 02 938 06 02- 921 13 01 875 10 15- 806 05 18- 784 05 20- 753 02 26- 737 03 24- 494 20-	36- 460 26- 30- 450 27- 34- 425 27- 38- 245 57- 191 67- 177 57- 161 54- 131 58- 115 58- 104 55- 075 58-		190 12000 67-		
Ocean Weather Station 'I' 59°00'N 19°00'W	02 21508	999 999 916	965 04 01- 860 ++ 05- 837 05- 12- 784 07- 21- 768 ++ 28- 755 06- 27- 742 ++ 28- 713 09- 19- 703 07- 12-	697 ++ 10- 680 ++ 10- 552 16- 18- 460 22- 25- 330 40- 43- 256 54- 220 60- 197 60- 185 64- 177 58- 161 54-		185 12100 64-		
	58 862++	984 984 762	890 05 03 777 01 01- 751 ++ 03- 699 04- 05- 684 05- 11- 610 10- 14- 428 29- 34- 354 40- 45- 279 53- 231 60-	205 52- 138 51- 112 54- 097 54-		231 10600 60-		
Ocean Weather Station 'J' 52°30'N 20°00'W	63 872++	001 001 735	944 09 ++ 773 02 02 687 04- 04- 623 07- 07- 578 11- 11- 339 40- 45- 294 49- 214 66- 175 61- 116 59- 095 59- 077 61-			214 11400 66-		
	58 872++	999 999 745	940 08 08 920 09 09 885 08 08 793 03 03 745 00 01- 600 09- 17- 534 14- 20- 430 26- 33- 418 27- 37- 336	40- 50- 250 57- 072 57-		250 10300 57-		

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	112330	T	040 06	+++ ++	060 14	040 10	360 10	340 07	310 19	300 23	310 67	310120	310108	310 75	300 65						
	120536	P	360 04	+++ ++	050 02	360 02	350 05	330 15	300 31	300 72	300102	300111	300116	310 70							
	121130	T	150 17	+++ ++	160 26	170 23	190 21	200 21	260 22	280 55	280 71	270 88	280 96	290 67	280 51	280 40	280 45				
	121730	P	150 22	+++ ++	170 33	180 37	210 31	270 33	280 40	270 46	280 53	270 66	270 75	270 65	280 50	280 45					
STORNOWAY 03026	112345	T	310 06	+++ ++	310 07	310 10	300 16	290 17	300 43	290 77	300100	300106	300109	300 88	300 71						
	120530	P	180 09	+++ ++	220 14	210 15	220 16	270 22	270 51	270 69	280 70	280 78	280 90	280 92	280 54	280 49	280 37	290 31			
	121212	T	160 20	+++ ++	200 38	230 34	260 37	260 39	260 42	260 49	260 59	260 79	260 92	260 96	270 50	290 59					
	121730	P	220 18	+++ ++	250 37	250 38	250 39	250 42	250 44	250 49	260 57	260 74	260 75	260 60	260 45	270 45					
SHANWELL 03170	112330	T	250 12	+++ ++	290 38	300 42	310 45	310 42	300 52	300 85	300101	300113	300111	300 96	300 66	310 40	310 40	290 35			
	120530	P	270 05	+++ ++	290 22	260 18	280 17	290 28	290 42	290 68	290 80	300 93	300 81	300 74	300 55						
	121130	T	000 00	+++ ++	240 24	260 31	260 44	270 43	270 46	270 62	280 51	270 71	270 81	280 82	290 60	270 30					
	121730	P	250 06	+++ ++	260 34	270 41	270 46	270 48	270 45	270 45	260 51	260 64	260 78	270 60	280 42	280 33	280 30				
ALDERGROVE 03917	112330	T	220 17	+++ ++	280 33	290 37	280 57	290 53	290 64	290 81	290 78	290 85	290 92	300 86	310 43						
	120530	P	170 15	+++ ++	240 33	260 35	270 51	280 57	280 48	270 47	280 47	270 67	280 71	280 63	290 43	290 35					
	121130	T	210 21	+++ ++	260 44	270 54	270 58	270 46	270 42	270 50	260 48	260 58	260 52	260 67	280 36	270 29	260 26				
	121730	P	210 18	+++ ++	240 39	250 42	250 38	260 40	250 47	250 48	250 51	250 59	250 72	250 50	270 32	270 39					
AUGHTON 03322	112330	T	260 16	+++ ++	290 37	300 36	300 61	300 66	300 66	300 81	300 87	300 88	300 91	310 88	310 52	310 45					
	120530	P	000 00	+++ ++	270 25	280 36	290 43	290 57	300 55	300 54	300 54										
	121150	T	190 12	+++ ++	250 29	270 34	280 44	280 50	290 53	280 53	270 43	270 43	280 44	280 47	290 40	280 19					
	121730	P	190 08	+++ ++	260 26	270 30	270 32	270 36	270 44	270 44	270 36	280 35	270 38	270 38	280 39	320 23	290 26				
HEMSBY 03496	112330	P	290 15	+++ ++	300 41	310 37	310 36	300 52	310 88	310 95	310105	320107									
	120530	P	270 11	+++ ++	310 35	310 32	310 40	310 59	310 67	310 65	310 74	320 82	320 83	320 78	320 65	330 37	320 28				
	121130	T	260 11	+++ ++	280 18	280 26	310 49	310 48	310 38	310 49	310 48	310 61	320 61	310 57	310 43	330 32					
	121730	P	230 11	+++ ++	270 22	300 23	310 33	300 35	310 40	300 40	290 41	280 47	280 48	290 44	300 34	310 29					
CRAWLEY 03774	112330	T	270 10	+++ ++	300 35	310 43	310 64	300 69	310 72	310 74	310 77	310 89	320 88	320 85	310 65						
	120530	P	270 10	+++ ++	290 31	310 45	310 50	300 57	310 55	310 64	310 63	300 66	320 70	320 65	310 44	320 35					
	121130	T	260 07	+++ ++	290 21	300 23	300 31	300 37	310 39	310 41	300 44	300 42	310 43	310 46	310 27	310 25	330 13	310 21	290 17		
	121730	P	250 14	+++ ++	260 23	280 27	290 29	290 30	310 27	300 26	280 35	270 40	290 41	270 36	300 27	300 21	310 19	320 11			
CAMBORNE 03808	112330	T	260 16	+++ ++	280 28	290 36	290 41	290 47	280 45	290 51	280 45	290 48	300 54	310 54	300 42	300 41					
	120530	P	220 13	+++ ++	260 29	270 31	270 35	280 34	280 31	280 31	290 38	280 33	290 35	300 33	290 31	300 22	290 22				
	121130	T	240 13	+++ ++	240 24	250 29	260 24	270 23	270 16	240 26	240 35	240 40	230 34	240 32	270 25	290 21					
	121730	P	210 17	+++ ++	240 28	240 25	240 30	230 23	260 18	280 20	260 27	240 30	250 38	250 31	280 23	280 24					
VALENTIA 03953	120000	T	200 17	200 22	+++ ++	240 41	+++ ++	250 54	260 59	260 57	260 58	280 50	+++ ++	280 58	280 38	280 24					
	121130	T	190 20	190 25	+++ ++	220 35	230 47	240 49	+++ ++	230 51	240 44	240 36	230 45	220 49	260 38	270 20					
Ocean Weather Station 'I' 59°00'N 19°00'W	120000	T	180 15	+++ ++	160 14	170 14	220 29	230 35	240 41	240 57	240 70	250 78	250 93	240 95	250 55	250 43					
	120600	P	180 20	+++ ++	130 25	130 24	210 33	220 45	230 52	230 54	230 58	220 60	220 75	230 60	230 42	270 54					
	121200	T	210 22	+++ ++	220 36	220 38	220 45	220 47	230 49	230 53	220 48	230 50	230 48	230 52	230 52	250 50					
	121800	P	180 20	+++ ++	210 30	210 36	210 40	210 42	210 45	210 45	220 51	210 64	210 58	230 57	240 57	230 51					
Ocean Weather Station 'J' 52°30'N 20°00'W	120000	T	200 29	200 29	+++ ++	230 52	+++ ++	220 51	+++ ++	220 56	230 64	230 72	+++ ++	230 72	240 36						
	120500	T	220 34	+++ ++	+++ ++	240 54	+++ ++	220 59	220 58	220 54	220 70	220 86	220 81	220 62	220 49						
	121200	T	190 32	+++ ++	+++ ++	210 49	+++ ++	220 47	+++ ++	210 52	210 62	220 71	+++ ++	220 72							
	121800	T	190 32	+++ ++	+++ ++	210 43	220 54	210 54	210 65	220 70	210 78	210100									
LARKHILL 03743																					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level		SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :— Inversion Levels :—		Isothermal Levels :—													
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level		SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :— Inversion Levels :—		Isothermal Levels :—													
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.												Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2			

STATION		MAX. WIND
LERWICK 03005	450mb 280 28 105mb 290 52 13200m 300 70 04800/0 06330/0 10850/1 11300/1 555mb 270 40 119500m 270 30 17100m 280 43 01850/2 02250/2	310 160 08870m 300 118 10120m 280 102 10100m 270 82 10950m
STORNOWAY 03026	624mb 300 28 104mb 300 50 02345/2 03480/0 03830/0 05460/0 11780/1 172mb 260 59 080mb 260 38 11160/1 12530/1	300 114 10650m 280 91 10600m 250 100 10900m 260 78 11020m
SHANWELL 03170	040mb 310 29 08120/0 12250/1 120mb 290 45 00720/3 19300m 280 40 07700/0 11920/1 12420/1	300 114 09710m 300 103 08400m 270 88 10730m 260 82 11150m
ALDERGROVE 03917	173mb 310 63 107mb 290 42 18000m 280 26 00820/2 01820/0 08900/0 11900/1 17700m 270 33 12090/1	290 98 10720m 280 81 11690m 260 72 11680m 250 79 10880m
AUGHTON 03322	187mb 310 70 080mb 300 32 08100m 300 60 083mb 280 22 19800m 280 26 00710/2 15700/2	310 93 10220m 300 63 08230m
HEMSBY 03496	10340m 310 120 02840/0 03150/0 08360/0 08730/1 14650m 330 56 19320m 320 23 14650/1 080mb 300 27 17950m 310 25	320 130 08550m 310 88 09600m 310 62 09100m
CRAWLEY 03774	17700m 310 21 09780/0 12180/1	320 92 09650m 310 74 10020m
CAMBORNE 03808	084mb 310 25 19500m 310 22 080mb 300 16 09900/0	
VALENTIA 03953	900mb 230 36 566mb 260 63 276mb 280 60 921mb 200 32 115mb 270 31 075mb 250 31	270 62 06470m
Ocean Weather Station 'I' 59°00'N 19°00'W	180mb 250 69 01800m 170 24 15300m 250 45 17100m 280 60 01900/2 15880/3 16500m 220 45	250 102 10210m 210 66 09600m
Ocean Weather Station 'J' 52°30'N 20°00'W	944mb 220 62 339mb 230 62 294mb 230 77 116mb 270 23 900mb 240 47 800mb 230 62 113mb 220 32 349mb 220 80 262mb 220 90 175mb 220 72 900mb 220 41 800mb 220 54 309mb 210 103 226mb 210 53	230 77 09250m 220 90 10000m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

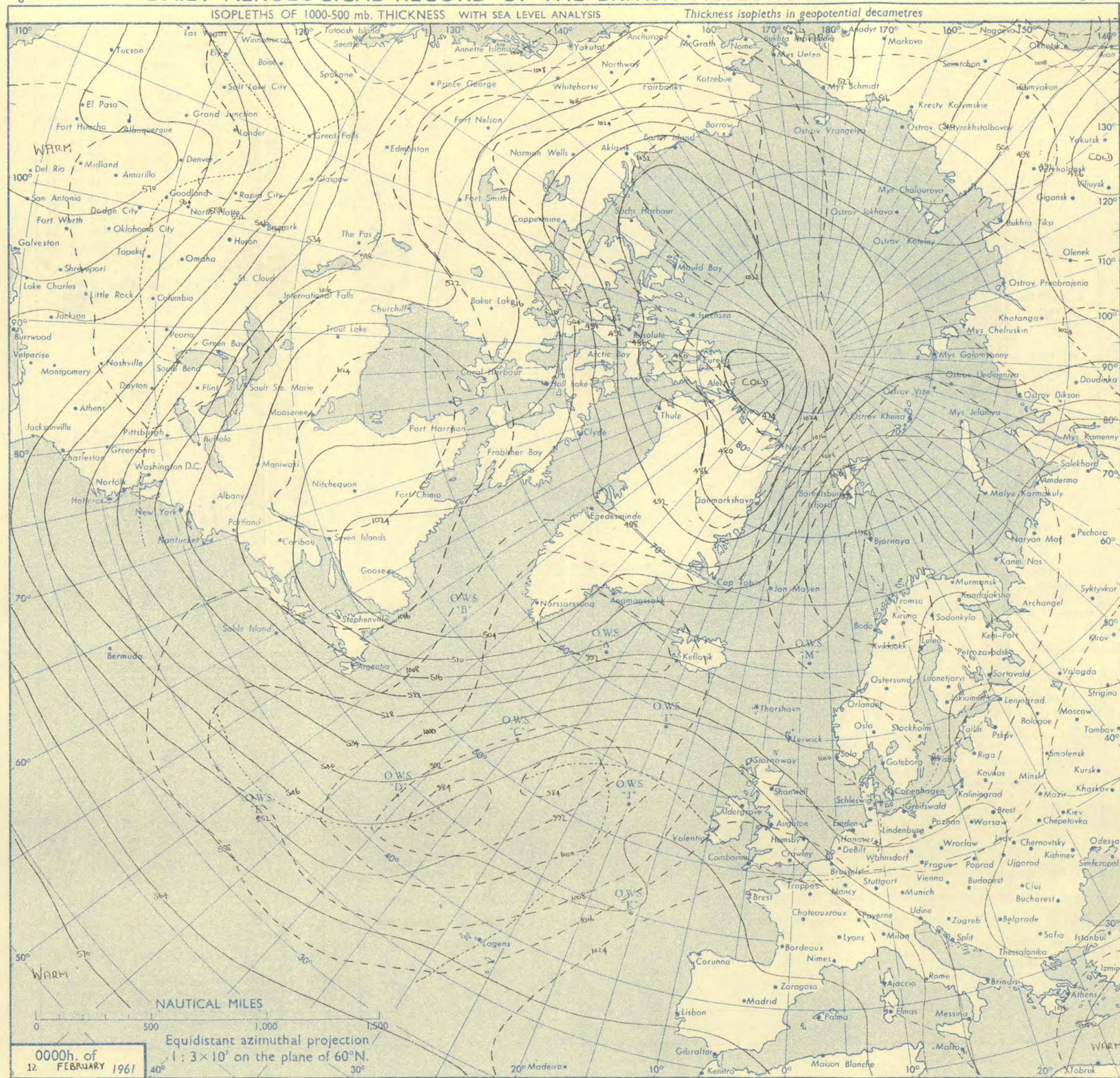
The trough extending from Greenland to Nova Scotia is moving slowly southeast while the trough over mid-Atlantic continues to move east steadily. The ridge which yesterday was over mid-Atlantic has moved east towards the British Isles increasing in amplitude, and the strong flow on its forward side over the British Isles has veered to westnorthwest. The ridge over southern Europe continues to decline and move southwards round the broad trough which persists over eastern Europe.

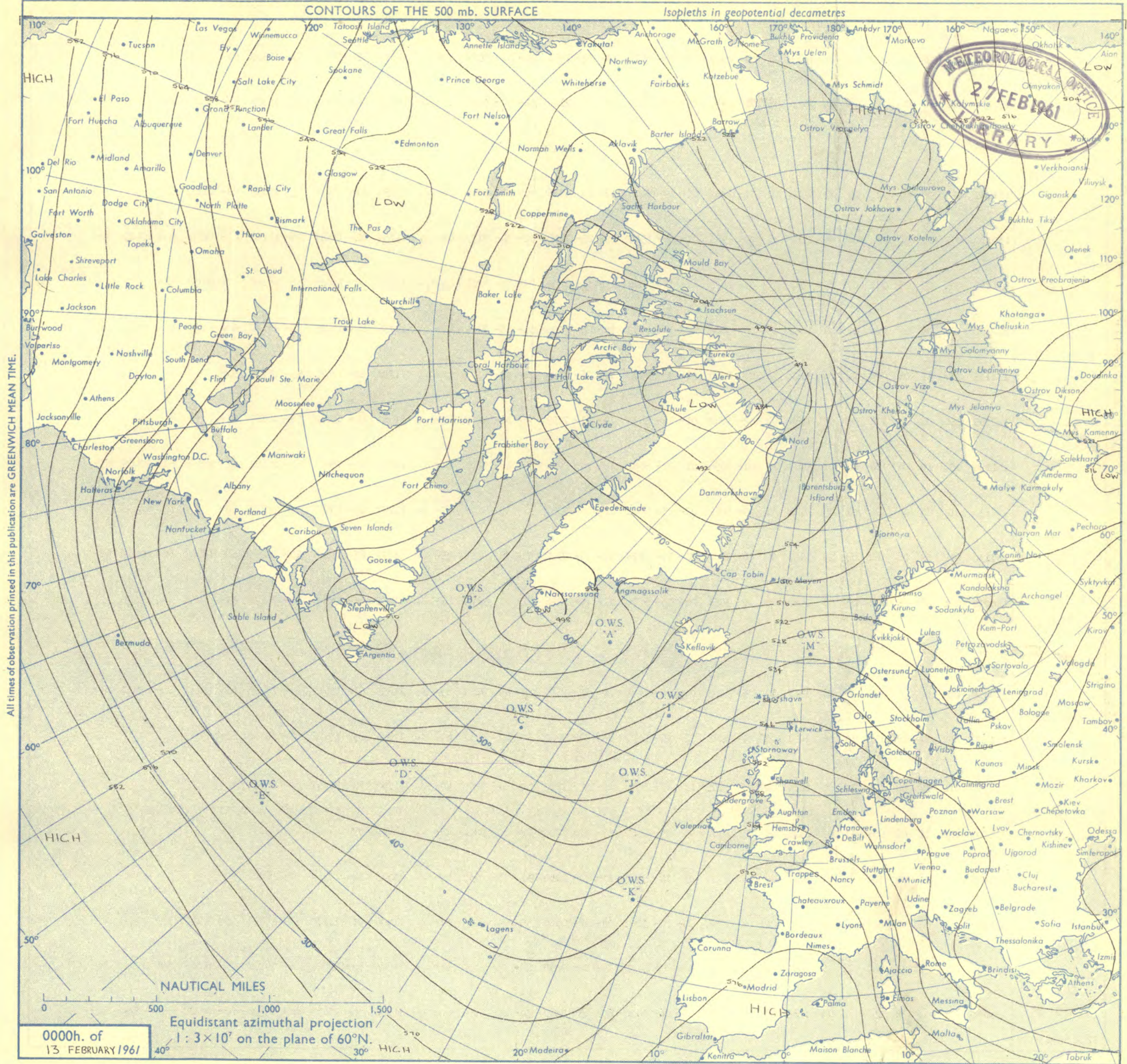
AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	46
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropopause		Average	Max.	Min.	Max.	Min.	
		Press. Temp.	Press.	Press.	Temp.	Temp.	
		mb. °C	mb.	mb.	°C	°C	
Upper		98 -63.6	...	72	...	-73	
Lower		230 -58.2	350	...	-52	...	

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. $51^{\circ} 12' \text{ N.}$, Long. $01^{\circ} 48' \text{ W.}$) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.





0000h. of
13 FEBRUARY 1961

Equidistant azimuthal projection
1 : 3×10^7 on the plane of 60°N .

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb				
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C					
LERWICK 03005	122330	082	08	08	005	++	++	1339	05	03	2900	04-	05-	5476	21-	27-	7081	34-	41-	9027	50-	++	11574	59-	13	388	57-	15950	59-	18178	60-											
	131130	082	09	06	013	++	++	1353	05	01-	2914	04-	09-	5485	20-	23-	7100	32-	36-	9064	47-	++	11622	66-	13426	54-	15995	61-	18189	64-	20263	63-										
STORNOWAY 03026	122330	NO ASCENT MADE																																								
	131245	013	09	07	023	09	07	1346	00	02-	2891	06-	19-	5476	17-	23-	7106	30-	36-	9087	46-	++	11658	61-	13477	55-	16055	58-	18287	63-												
SHANWELL 03170	130110	005	08	06	084	08	05	1414	08	09-	2985	01-	08-	5577	19-	25-	7198	30-	34-	9177	47-	++	11734	62-	13547	55-	16110	61-	18331	60-	20419	62-										
	131130	005	09	05	081	09	05	1402	01-	03-	2972	01	35-	5576	17-	31-	7209	29-	35-	9201	45-	++	11771	64-	13604	51-	16208	57-	18459	56-												
ALDERGROVE 03917	122330	077	08	06	090	08	06	1429	09	08-	3002	02-	18-	5589	19-	24-	7209	31-	35-	9189	47-	++	11756	64-	13579	55-	16126	60-	18352	61-	20442	61-										
	131135	077	11	06	076	++	++	1412	04	01	2968	02-	05-	5570	17-	26-	7205	29-	39-	9198	45-	++	11792	62-	13620	53-	16192	57-														
AUGHTON 03322	122359	056	06	05	134	08	05	1468	08	02-	3042	01-	14-	5633	19-	31-	7259	30-	36-	9239	47-	++	11812	64-	13612	56-	16167	61-														
	131130	056	10	06	136	10	07	1464	10	01-	3054	01	21-	5662	18-	36-	7286	30-	48-	9274	44-	++	11859	64-	13648	57-	16192	63-	18395	61-	20465	63-										
HEMSBY 03496	122330	012	08	06	140	07	05	1493	08	09-	3062	02-	23-	5642	21-	35-	7257	31-	39-	9232	47-	++	11797	65-	13573	59-	16110	60-														
	131130	012	09	06	164	08	05	1507	09	06-	3082	02-	17-	5678	19-	33-	7302	30-	38-	9286	45-	++	11879	63-	13680	55-	16238	60-	18468	60-	20561	62-										
CRAWLEY 03774	130012	144	08	06	175	09	06	1522	10	11-	3096	01-	15-	5676	21-	27-	7296	31-	43-	9275	46-	++	11855	65-	13640	59-	16176	61-														
	131130	144	09	07	179	08	06	1518	10	22-	3099	01-	19-	5690	20-	33-	7306	31-	45-	9281	47-	++	11868	62-	13674	58-	16221	60-	18451	60-	20549	60-										
CAMBORNE 03808	122330	088	09	07	166	08	06	1504	10	05-	3083	00	20-	5688	19-	37-	7306	32-	44-	9281	47-	++	11859	63-	13660	58-	16204	61-	18417	61-	20517	60-										
	131130	088	11	08	155	10	06	1491	08	07-	3063	02-	15-	5647	20-	32-	7262	32-	42-	9237	47-	++	11806	63-	13618	58-	16158	61-														
VALENTIA 03953	122330	014	10	08	096	10	08	1434	08	03-	3009	01-	15-	5610	19-	32-	7230	30-	37-	9200	48-	++	11750	61-	+++++	++	16130	60-														
	131200	014	11	09	093	11	09	1405	05	01	2966	03-	05-	5560	17-	21-	7200	28-	36-	9200	43-	++	11820	57-	+++++	++	16280	56-														
Ocean Weather Station 'I' 59°00'N 19°00'W	130001		09	09	182-	++	++	1161	06	06	2731	03-	04-	5320	19-	22-	6950	31-	35-	8930	47-	++	11530	52-	13410	51-	16040	50-														
	131200		06	02	069-	++	++	1234	04-	06-	2714	09-	25-	5290	24-	42-	6880	35-	++	8820	51-	++	11400	51-	13270	52-	15890	55-	18140	59-	20250	61-	23410	64-								
Ocean Weather Station 'J' 52°30'N 20°00'W	130001		11	11	057-	++	++	1280	05	05	2850	03-	05-	5440	19-	22-	7070	29-	35-	9060	45-	++	11670	52-	13560	48-	16170	55-	18440	56-	20580	56-										
	131200		09	08	058-	++	++	1260	03	02	2829	05-	06-	5400	20-	25-	7000	34-	40-	8950	50-	++	11580	50-	13470	48-	16120	52-	18420	53-	20590	52-										

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	51 872++	001	991	762	885 06 04 745 01- 03- 707 ++ 04- 632 ++ 13- 625 09- 15- 468 ++ 29- 428 ++ 38- 362 40- 46- 240 62- 216 64- 187 58- 100 59- 067 61-	216	11090	64-
	02 4567+	002	992	760	964 10 06 910 ++ 04 820 ++ 03- 802 ++ 03- 771 01 07- 734 01- 10- 692 05- 08- 578 13- 15- 496 20- 23- 368 37- 40- 238 61- 202 67- 181 60- 150 54- 100 61- 095 62- 073 64- 062 62- 039 64- 033 69-	202 095	11570 16300	67- 62-
STORNOWAY 03026	02 855++	003	001	781	998 08 06 920 ++ 03 854 ++ 01- 848 00 02- 838 02 03- 834 ++ 06- 824 ++ 06- 812 ++ 03- 803 01 06- 785 ++ 11- 765 ++ 09- 750 ++ 14- 669 08- 20- 655 07- 15- 590 ++ 15- 545 13- 17- 484 19- 26- 351 37- 42- 338 40- 46- 274 50- 215 65- 200 60- 143 54- 091 59- 067 64- 060 60-	215 (067)	11220 18560	65- 64-
SHANWELL 03170	02 855++	010	010	721	002 08 05 987 08 06 895 02 01 873 09 00 867 ++ 06- 807 ++ 16- 763 ++ 15- 728 ++ 08 688 02- 09- 609 09- 11- 580 ++ 16- 523 ++ 24- 463 24- 27- 445 ++ 27- 406 29- 34- 338 40- 47- 234 61- 213 65- 206 65- 194 60- 153 54- 100 61- 094 62- 084 59- 039 62-	213 094	11320 16500	65- 62-
	02 65401	010	009	861 690	839 ++ 04- 831 02- 06- 809 06 12- 786 06 20- 687 ++ 35- 670 01- 35- 586 ++ 26- 538 14- 30- 519 ++ 33- 469 21- 34- 408 28- 34- 378 ++ 40- 327 40- 47- 224 63- 208 66- 178 55- 155 51- 100 57- 092 59- 068 56-	208	11500	66-
ALDERGROVE 03917	02 855++	011	001	722	917 04 03 911 11 00 902 11 14- 888 11 17- 845 ++ 06- 809 06 17- 798 ++ 12- 775 ++ 27- 748 ++ 34- 717 ++ 32- 695 03- 16- 664 ++ 26- 581 13- 16- 554 13- 16- 538 ++ 18- 516 ++ 23- 457 25- 28- 441 ++ 28- 431 26- 28- 390 ++ 36- 350 37- 47- 253 56- 205 66- 163 53- 123 60- 045 61-	205 123	11600 14810	66- 60-
	02 3563+	009	000	771	950 06 04 927 06 04 906 08 06 875 ++ 02 793 01 00 702 02- 05- 688 ++ 05- 657 ++ 13- 636 ++ 11- 592 ++ 13- 530 ++ 26- 517 16- 26- 498 ++ 25- 431 ++ 40- 361 34- 40- 331 40- 44- 253 54- 215 61- 192 62- 184 58- 160 52- 112 58- 096 57- 077 59-	215 112	11320 15480	61- 58-
AUGHTON 03322	02 00900	017	010	712	004 08 06 000 08 05 918 04 01 873 09 00 774 03 08- 764 04 10- 571 13- 26- 488 ++ 32- 443 ++ 32- 370 35- 41- 336 40- 46- 216 63- 201 64- 147 56- 094 61- 084 58-	201 104	11790 15930	64- 61-
	02 785++	017	010	693	000 10 05 874 01 02- 855 08 01 849 10 03- 844 10 09- 823 ++ 24- 757 06 31- 640 06- 22- 617 06- 25- 332 40- ++ 211 63- 193 65- 182 64- 173 59- 146 56- 121 57- 096 64- 081 61- 057 65- 043 62-	193 096	12070 16440	65- 64-
HEMSBY 03496	02 00900	017	015	723	975 ++ 05 971 07 02 961 11 00 955 13 02- 950 ++ 06- 928 14 11- 907 ++ 04- 870 ++ 05- 795 04 16- 671 04- 25- 561 15- 31- 496 21- 35- 468 ++ 33- 418 29- 36- 339 40- 48- 236 60- 194 65- 163 60- 080 60-	194	11970	65-
	02 855++	020	019	719	938 03 02 924 13 01 919 ++ 07- 896 12 11- 860 ++ 06- 737 02 21- 700 02- 17- 630 07- 22- 608 07- 26- 542 14- 34- 417 ++ 36- 331 40- 47- 198 64- 186 64- 158 55- 102 60- 036 60-	198	11920	64-
CRAWLEY 03774	02 855++	021	004	709	002 09 06 946 04 03 918 12 04- 893 12 08- 839 ++ 12- 772 03 10- 728 01 18- 662 ++ 14- 576 14- 20- 541 16- 24- 495 22- 28- 480 21- 29- 470 ++ 32- 356 ++ 49- 215 63- 191 66- 178 60- 075 59-	191	12130	66-
	02 5843+	022	004	708	987 06 03 926 03 02 915 10 00 888 ++ 11- 876 11 13- 812 ++ 29- 793 06 28- 704 ++ 18- 620 ++ 22- 548 ++ 33- 508 ++ 32- 467 23- 35- 433 28- 38- 419 29- 41- 370 ++ 49- 291 48- 225 60- 204 62- 168 57- 067 61- 043 58-	204	11730	62-
CAMBORNE 03808	50 874++	020	009	701	917 04 03 900 09 10- 876 12 13- 850 10 05- 805 06 08- 779 05 17- 743 04 19- 652 04- 22- 603 07- 27- 568 11- 27- 499 19- 37- 428 29- 37- 406 31- 43- 375 35- 48- 231 60- 203 63- 173 58- 129 58- 092 62- 037 60-	203	11750	63-
	01 65502	019	008	721	917 02 01 895 10 04 877 10 03- 807 05 13- 748 02 17- 659 06- 15- 625 09- 19- 589 11- 23- 451 27- 38- 430 28- 39- 336 40- 50- 237 60- 205 64- 192 62- 185 57- 075 62-	205	11660	64-
VALENTIA 03953	03 864++	012	010	715	952 07 05 935 07 05 890 04 03 869 08 00 753 04 13- 699 01- 15- 654 04- 19- 453 25- 34- 438 25- 33- 218 65- 184 56- 150 54- 133 57- 112 60- 073 61- 045 61-	218 133	11200 14300	65- 57-
	60 86400	007	006	766	987 10 08 823 04 00 766 00 02- 723 02- 04- 614 08- 10- 532 15- 19- 481 18- 22- 459 22- 28- 444 22- 29- 263 50- 252 53- 215 61- 186 53- 160 51- 143 53- 098 56- 087 58- 081 55- 066 57- 060 53- 051 56-	215	11400	61-
Ocean Weather Station 'I' 59°00'N 19°00'W	61 774++	978	978	748	856 06 06 623 ++ 09- 534 15- 18- 471 ++ 25- 337 40- 44- 258 55- 246 57- 241 56- 224 57- 204 51- 100 50- 56-	246	10200	57-
	25 794++	992	992	916	916 00 04- 779 09- 10- 758 10- 11- 741 07- 16- 731 ++ 22- 661 11- 31- 643 10- 31- 430 32- 49- 244 62- 231 56- 222 56- 207 51- 173 50- 128 52- 110 55- 096 55- 080 58- 050 61- 040 60- 034 64- 030 64-	244 110 034	10100 15300 22600	62- 55- 64-
Ocean Weather Station 'J' 52°30'N 20°00'W	872++	992	992	750	877 07 07 750 00 00 675 05- 07- 552 13- 16- 366 33- 39- 330 40- 46- 244 56- 229 56- 178 50- 160 48- 120 54- 045 57-	244 120	10400 15000	56- 54-
	01 864++	992	992	785	965 07 07 925 05 05 880 05 03 361 40- 46- 260 54- 233 51- 041 53-	260	09900	54-

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb	750mb	700mb	600mb	500mb	400mb	300mb	250mb	200mb	150mb	100mb	70mb	50mb	30mb	20mb	10mb
						1500m	2100m	3000m	4200m	5400m	7200m	9000m	10500m	12000m	14100m	15900m	18300m	20700m	23700m	26400m	30900m
LERWICK 03005	122330	P	200 22	+++ ++	250 38	240 29	260 32	260 31	250 34	260 38	270 47	270 59	280 59	280 58	280 52	270 36	270 41				
	130530	P	210 22	+++ ++	240 40	250 39	250 38	250 41	260 40	260 44	260 49	260 68	270 63	270 58	270 50	280 47					
	131135	P	220 28	+++ ++	250 54	250 52	240 54	240 49	240 53	230 51	240 52	250 59	250 60	260 58	260 43						
	131730	P	190 13	+++ ++	220 25	210 29	210 35	220 35	240 53	230 55	230 70	230 71	230 73	250 62	250 51						
STORNOWAY 03026	122330								NO WINDS REPORTED												
	130530								NO WINDS REPORTED												
	131245	T	180 18	+++ ++	210 48	210 49	220 54	220 53	220 59	220 56	220 62	220 65	220 67	230 64	240 63	260 40	250 32				
	131730								NO WINDS REPORTED												
SHANWELL 03170	122340	P	220 10	+++ ++	240 29	250 36	240 35	260 43	260 38	270 38	270 44	270 54	270 57	270 60	280 45	270 27	280 29	270 29			
	130530	P	210 15	+++ ++	240 28	240 26	240 25	240 38	250 44	250 32	260 33	250 48	260 50	260 57	280 35	260 27	280 34				
	131130	T	220 20	+++ ++	230 37	230 42	220 46	220 49	220 51	230 56	230 56	230 43	240 47	240 48	260 37	260 30					
	131730	P	220 10	+++ ++	240 42	240 45	230 56	230 56	230 64	220 53	220 48	220 55	230 49	230 50	240 48	250 23					
ALDERGROVE 03917	122330	T	180 18	+++ ++	230 28	240 26	240 31	230 39	240 43	240 45	240 40	250 46	260 55	250 51	260 32	270 35	270 19	250 20			
	130530	P	190 20	+++ ++	220 28	210 20	220 33	220 44	230 43	220 40	230 50	240 50	240 48	240 46	260 25	260 28	260 26				
	131135	T	170 24	+++ ++	230 38	240 50	230 54	220 48	210 57	210 63	220 48	220 42	220 51	230 48	230 35	230 35					
	131730	P	180 25	+++ ++	220 45	230 42	230 44	230 45	220 51	220 56	220 58	210 62	210 69	220 56	220 36	230 30	240 24				
AUGHTON 03322	122359	T	170 05	+++ ++	240 22	250 32	250 35	250 35	260 37	270 44	270 30	270 38	270 41	270 44	280 36	290 25					
	130530	P	180 09	+++ ++	230 22	240 37	240 34	230 32	230 31	240 37	250 34	260 24	270 21	260 37	280 29	280 14	290 16	270 12			
	131130	T	190 13	+++ ++	240 23	250 31	230 40	220 36	230 44	220 40	220 37	220 27	230 28	230 35	240 28	270 16	260 20				
	131730	P	160 12	+++ ++	230 27	240 36	240 40	230 41	240 45	220 50	220 39	220 39	230 34	220 31	230 24	240 18	260 20				
HEMSBY 03496	122330	T	240 15	+++ ++	260 14	250 12	280 24	280 25	290 34	290 39	300 35	290 32	290 39	290 35	300 33	300 28					
	130530	P	230 10	+++ ++	270 23	270 21	270 21	270 31	280 27	290 29	290 21	300 27	280 34	290 38	310 27	310 22	310 16				
	131130	T	210 15	+++ ++	240 20	240 20	250 24	250 30	260 28	260 20	260 10	250 11	270 16	280 28	290 18	310 20	280 11	290 14			
	131730	P	220 11	+++ ++	240 29	250 25	250 26	240 32	230 27	230 25	210 21	230 18	250 17	260 20	280 12	280 10	280 15				
CRAWLEY 03774	130012	T	250 10	+++ ++	260 24	270 23	270 24	260 26	280 14	320 19	280 23	270 29	270 35	280 36	300 27	300 16					
	130608	P	220 07	+++ ++	240 27	250 24	250 23	240 22	260 19	270 15	280 10	270 17	260 25	280 23	310 20	300 16					
	131130	T	230 12	+++ ++	240 35	240 33	230 26	230 20	240 23	230 14	240 12	220 15	250 17	260 15	300 11	310 08	280 07	270 05			
	131730	P	240 06	+++ ++	230 26	250 26	250 29	240 32	230 24	230 20	230 19	250 17	270 11	250 14	260 09	280 12	260 11				
CAMBORNE 03808	122330	T	180 12	+++ ++	210 27	220 29	230 28	220 28	220 27	240 22	240 19	240 23	250 18	250 26	280 21	290 15	300 08	280 09			
	130530	P	240 12	+++ ++	220 28	220 37	220 36	230 31	220 36	220 29	230 26	250 16	220 19	240 28	270 19	270 13	270 14				
	131130	T	170 12	+++ ++	220 27	240 28	210 37	210 35	220 32	210 41	210 32	210 22	220 35	230 31	210 18	260 31					
	131730	P	180 18	+++ ++	220 33	230 31	240 32	220 34	210 42	210 41	210 45	210 31	210 37	220 38	220 28	230 24	230 14	260 13			
VALENTIA 03953	122335	P	180 20	+++ ++	190 32	200 27	210 39	210 45	220 53	220 50	210 41	220 48	230 45	230 50	260 23	260 25	250 15				
	131133	P	180 20	+++ ++	200 55	200 63	210 65	220 55	210 45	210 63	210 61										
Ocean Weather Station 'I' 59°00'N 19°00'W	130001	T	190 24	+++ ++	210 33	210 33	200 31	200 30	210 40	210 44	210 42	210 45	210 48	210 55	230 51						
	130600	P	315 30	+++ ++	290 21	250 30	240 38	230 36	210 58	210 55	200 63	200 65	210 70	210 71	210 64	210 62					
	131200	T	310 25	+++ ++	310 18	310 15	290 13	230 33	220 34	220 44	210 54	220 55	210 58	210 59	200 57	210 51	220 48	220 35	250 34		
	131800	P	270 20	+++ ++	310 19	300 19	300 19	260 24	250 41	230 40	220 55	210 67	210 62	220 57							
Ocean Weather Station 'J' 52°30'N 20°00'W	130001	T	180 30	+++ ++	210 46	+++ ++	210 40	+++ ++	200 61	200 83	200 91	+++ ++	200 69	200 59							
	130600	T	200 20	+++ ++	200 35	+++ ++	210 33	200 37	190 42	190 62	190 92	+++ ++	180 65								
	131200	T	330 20	+++ ++	240 24	+++ ++	220 27	+++ ++	220 32	200 28	200 28	+++ ++	210 49	210 53	200 51						
	131700	T	350 30	+++ ++	360 24	+++ ++	250 20	240 19	+++ ++	+++ ++	+++ ++	+++ ++	+++ ++	+++ ++	210 56	200 41					
LARKHILL 03743	130730	P	210 11	+++ ++	230 22	230 32	230 29	240 23	230 25	240 18	250 21	240 10	250 17	270 21	300 14	290 18					
	131130	P	210 12	+++ ++	230 17	230 36	230 34	220 31	230 29	220 22	230 15	220 19	240 15	250 21	280 14	290 16					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE	SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL Surf. 0°C level	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C
131309	49.9N 28.1W	006 999 950	061 03 02-	049 00 01-	893 05- ++	1338 08- ++	1811 08- ++	06- ++	2850 10- ++	15- ++	4017 19- ++	23- ++	5349 29- ++	
Cloud :— 8/8 Sc. 4000 to 6000 ft. Inversion Levels :— 800 to 750mb - 7½ to - 6°C. Isothermal Levels :— 850 to 800mb - 7½°C.														
YYGGgg	POSITION	PRESSURE	SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL Surf. 0°C level	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C
Cloud :— Inversion Levels :— Isothermal Levels :—														
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UPPER WINDS AT ADDITIONAL LEVELS

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STATION		MAX. WIND
LERWICK 03005	17100m 270 43	270 64 10130m 260 70 08980m 250 63 10350m 230 77 11000m
STORNOWAY 03026	064mb 230 32	230 72 11010m
SHANWELL 03170	080mb 270 34 17300m 250 31 07640/0 08330/1 09680/1 15470/1	270 66 10840m 230 60 05800m 220 78 08000m
ALDERGROVE 03917	12600m 250 37 19200m 260 20 00800/1 01150/1 01920/0 086mb 240 25 20200m 250 23 00440/3 11000/1	210 63 05220m 220 73 10750m
AUGHTON 03322	22200m 270 18 01280/0 129mb 240 27 19500m 280 18 00450/2 00890/2 13510/1	
HEMSBY 03496	087mb 300 17 19560m 260 14 040mb 260 14 19500m 280 10	
CRAWLEY 03774	080mb 300 14 045mb 260 16	
CAMBORNE 03808	042mb 270 10 18900m 270 12 07700/1 11040/0 080mb 250 09 21000m 250 15 18700/2	
VALENTIA 03953	00300m 180 33 00600m 180 35 20100m 270 24 00300m 180 41 00600m 190 50 09000m 200 52	210 66 08000m
Ocean Weather Station 'I' 59°00'N 19°00'W	113mb 210 56 17400m 210 50 01300/5 03400/0 727mb 250 24 12900m 210 54 02950/6 07850/0 09600/1	200 63 10660m 210 78 11000m 220 63 08020m 210 75 09500m
Ocean Weather Station 'J' 52°30'N 20°00'W	265mb 200 96 140mb 200 48 900mb 200 31 800mb 200 35 190mb 180 64 800mb 220 38 092mb 200 20 900mb 360 26 800mb 320 16 576mb 240 17 191mb 210 35 074mb 190 35	200 96 09860m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The ridge over eastern Canada and the downstream trough extending southwestwards from south Greenland are both moving slowly southeast. The trough over mid-Atlantic is moving east steadily, while the warm ridge which extends northwards from Spain to the Norwegian Sea is moving southeast displacing the northern portion of the central and east European trough eastwards, but the southern portion of this trough over the central Mediterranean is almost stationary.

AVERAGE AND EXTREME VALUES 1951-55
FEBRUARY

LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...
60	18945	-60.1	-46	-71	309 24	26
100	15745	-58.1	-46	-69	304 17	25
150	13175	-55.3	-42	-72	311 18	28
200	11350	-56.7	-42	-70	318 20	35
300	8770	-52.7	-43	-61	322 21	46
400	6870	-41.4	-31	-56	315 17	42
500	5320	-30.1	-19	-43	308 13	35
700	2845	-13.7	-2	-23	292 7	26
850	1345	-5.7	4	-13	257 4	25

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	267	-60.4	9960
Max.	422	-43	12955
Min.	160	-75	6250

LARKHILL/CRAWLEY† (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...
60	19050	-60.1	-52	-73	308 18	25
100	15855	-58.1	-47	-71	307 20	28
150	13285	-55.5	-44	-70	310 25	34
200	11455	-56.9	-43	-72	313 27	41
300	8875	-52.2	-43	-61	315 28	52
400	6965	-39.9	-28	-54	309 23	44
500	5405	-28.2	-17	-41	306 18	35
700	2910	-11.2	2	-22	304 12	25
850	1395	-3.4	6	-15	302 8	22

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	264	-59.7	9835
Max.	456	-42	14355
Min.	126	-76	5850

MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.

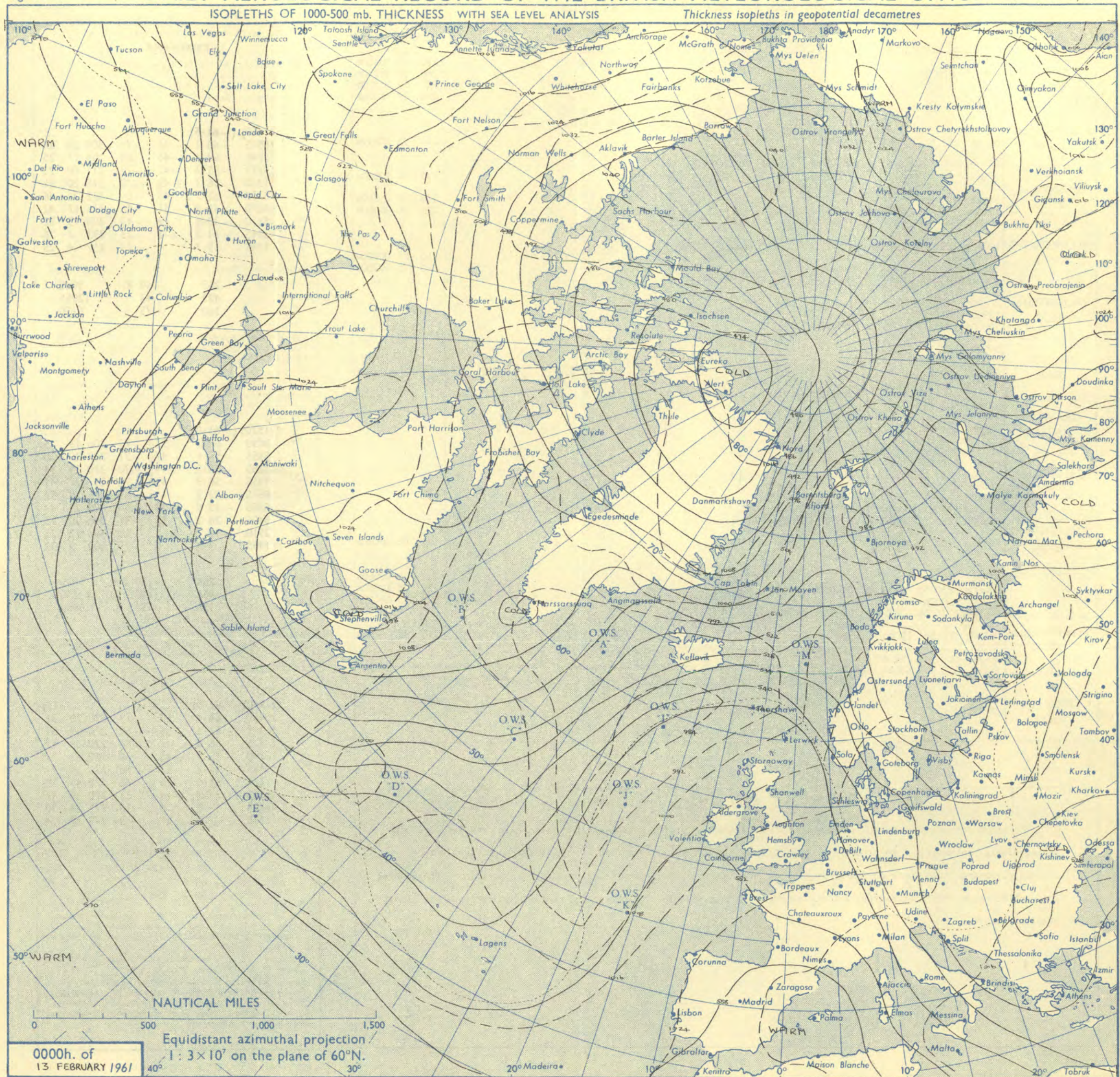
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	(15)
60	19250	-64.4	-59	-73	270 28	31
100	16115	-62.3	-55	-69	270 49	52
150	13575	-56.8	-47	-66	270 66	69
200	11740	-55.7	-43	-68	270 71	77
300	9125	-47.2	-37	-56	270 58	71
400	7165	-33.6	-26	-46	270 45	56
500	5565	-22.0	-13	-33	270 36	45
700	3005	-5.0	6	-13	275 23	30
850	1455	3.7	21	-3	275 17	24

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
	mb.	°C	mb.	mb.	°C	°C
Upper	98	-63.6	...	72	...	-73
Lower	230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

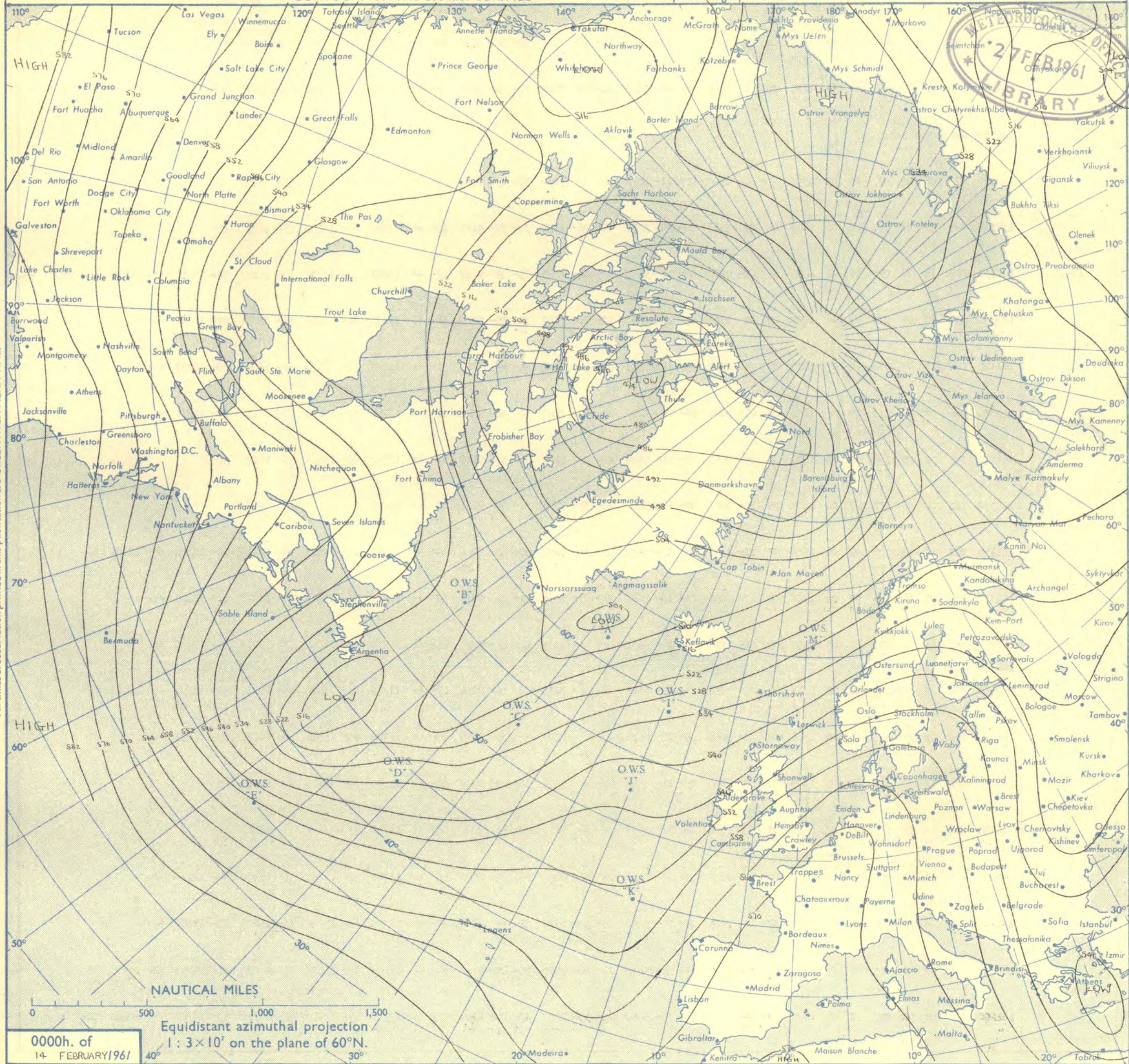
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



NAUTICAL MILES

0000h. of
14 FEBRUARY 1961Equidistant azimuthal projection
1:3 x 10⁷ on the plane of 60°N.

STATION	YYGGgg	SURFACE	1000mb	850mb	700mb	500mb	400mb	300mb	200mb	150mb	100mb	70mb	50mb	30mb
		gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C
LERWICK 03005	132343	082 08 08	002- ++ ++	1324 04 02	2881 04- 11-	5443 22- 26-	7041 35- 40-	8990 49- ++	11554 61- 13390	53- 15959	60- 18180	60-		
	141130	082 06 05	053 ++ ++	1374 02 01	2921 06- 08-	5462 24- 29-	7048 37- 44-	8978 51- ++	11557 57- 13393	54- 15977	58-			
STORNOWAY 03026	132330	No ascent made												
	141130	013 06 06	077 05 03	1387 01- 04-	2920 07- 11-	5462 24- 30-	7052 37- 43-	8980 51- ++	11558 58- 13398	52- 16010	54- 18263	61- 20352	61-	
SHANWELL 03170	132330	005 09 07	080 08 06	1407 04 02	2961 04- 08-	5537 20- 26-	7151 33- 38-	9111 49- ++	11650 62- 13460	55- 16012	62-			
	141130	005 10 08	093 10 07	1425 02 01-	2970 06- 12-	5545 20- 44-	7159 33- 49-	9117 48- ++	11683 59- 13516	53- 16127	58- 18352	55- 20479	60- 23650	63-
ALDERGROVE 03917	132330	077 10 08	070 ++ ++	1409 03 01	2964 05- 10-	5537 21- 30-	7147 33- 39-	9109 48- ++	11674 62- 13496	54- 16081	61- 18289	61-		
	141145	077 11 07	081 11 07	1410 02 01	2954 05- 10-	5515 23- 43-	7108 36- ++	9045 51- ++	11623 57- 13470	52- 16060	58- 18297	60-		
AUGHTON 03322	132330	056 08 05	135 09 05	1482 07 01-	3044 05- 09-	5622 18- 22-	7248 30- 34-	9228 47- ++	11798 61- 13604	57- 16157	60- 18378	60-		
	141140	056 09 05	138 08 02	1474 06 05-	3033 06- 11-	5586 22- 25-	7189 34- 37-	9148 47- ++	11732 60- 13553	55- 16125	57-			
HEMSBY 03496	132330	012 08 06	172 07 04	1515 09 15-	3087 02- 18-	5669 22- 33-	7276 32- 46-	9241 47- ++	11808 66-					
	141130	012 11 07	176 09 04	1534 07 11-	3096 05- 13-	5652 22- 34-	7254 34- 43-	9204 49- ++	11771 63- 13573	58- 16110	61- 18314	62- 20391	63-	
CRAWLEY 03774	132330	144 05 04	183 06 04	1528 08 17-	3098 03- 10-	5680 20- 33-	7298 31- 44-	9269 47- ++	11855 64- 13663	57- 16210	60- 18429	61-		
	141130	144 13 08	179 13 07	1535 09 05-	3114 02- 14-	5691 21- 31-	7303 32- 42-	9273 46- ++	11870 60- 13694	55- 16272	58- 18510	60-		
CAMBORNE 03808	132330	088 09 08	147 08 06	1501 08 08-	3062 05- 12-	5619 21- 27-	7234 32- 36-	9204 47- ++	11775 64- 13586	56- 16142	59- 18356	61- 20444	62-	
	141130	088 11 10	158 10 08	1506 06 01-	3065 05- 12-	5616 23- 25-	7225 32- 35-	9193 48- ++	11766 60- 13596	55- 16174	59- 18399	60- 20495	61-	
VALENTIA 03953	140000	014 12 10	056 11 09	1389 02 00	2936 05- 11-	5500 22- ++	7090 36- 49-	9030 50- ++	11590 62- +++++	++ 15940	62-			
	141135	014 10 09	104 09 07	1430 03 04-	2984 04- 37-	5530 26- ++	7110 37- ++	9030 54- ++	11610 53- +++++	++ 16060	56-			
Ocean Weather Station 'I' 59°00'N 19°00'W	140000	06 02-	037 05 01-	1331 07- 11-	2823 13- 25-	5320 28- 41-	6890 39- 49-	8800 53- ++	11380 52- 13250	51- 15900	52- 18200	54-		
	141200	06 02-	097 05 02-	1391 07- 10-	2901 09- 23-	5400 29- 40-	6970 41- ++	8850 57- ++	11390 56- 13220	54- 15820	55- 18080	59-		
Ocean Weather Station 'J' 52°30'N 20°00'W	140000	07 05 046	06 05 1350	03- 03-	2889 07- 28-	5430 24- 40-	7020 36- 48-	8960 50- ++	11560 52- 13430	51- 16070	51- 18370	54- 20520	++	
	141200	08 04 092	07 03 1400	03- 05-	2933 05- 13-	5480 23- 33-	7070 37- 45-	8990 53- ++	11530 57- 13370	52- 15990	53- 18280	54- 20440	54-	

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 856++	000	990	779	968 09 07 822 03 01- 753 02- 06- 718 02- 08- 646 ++ 13- 619 ++ 19- 501 ++ 26- 364 40- 45- 235 61- 194 60- 168 52- 121 58- 100 60- 075 59- 057 64-	235	10530	61-
	60 872++	007	997	791	983 ++ 04 951 04 03 856 02 01 779 01- 02- 650 10- 14- 578 ++ 26- 488 ++ 31- 377 40- 47- 338 46- 285 54- 220 60- 165 53- 100 58- 076 59-	121	14780	58-
STORNOWAY 03026	63 473++	009	008	873	995 05 03 955 02 00 701 07- 11- 506 23- 29- 378 40- 46- 278 55- 272 54- 199 58- 154 52- 097 54- 069 61- 050 61-	278	09450	55-
						069	18360	61-
SHANWELL 03170	61 855++	010	009	785	988 08 05 908 04 02 863 03 01 847 04 02 793 00 03- 690 05- 09- 607 ++ 17- 496 21- 27- 345 40- 46- 257 58- 215 67- 206 63- 161 55- 100 62- 076 64-	215	11220	67-
	02 865++	011	011	815	003 10 07 948 06 04 782 ++ 05- 769 02- 08- 750 ++ 07- 721 04- 14- 711 05- 12- 644 11- 15- 636 08- 13- 606 09- 26- 537 16- 41- 390 35- 50- 370 39- 281 51- 235 61- 219 62- 175 55- 123 51- 100 58- 091 62- 079 63- 070 55- 063 54- 050 60- 042 61- 038 59- 030 63-	096	16260	62-
ALDERGROVE 03917	02 864++	008	999	760	985 09 06 931 09 05 852 ++ 01 831 02 01- 812 03 01- 769 ++ 05- 713 04- 08- 683 05- 10- 650 ++ 13- 610 10- 17- 555 ++ 19- 537 17- 23- 452 ++ 37- 421 31- 39- 362 38- 43- 226 63- 206 64- 196 59- 132 52- 098 62- 085 62- 062 59-	226	10950	63-
	50 364++	010	001	803	936 05 04 813 01 01- 779 02- 04- 740 02- 06- 713 ++ 10- 694 ++ 10- 621 ++ 20- 603 ++ 29- 590 13- 30- 547 17- 38- 436 31- ++ 290 52- 254 57- 241 57- 221 59- 164 52- 055 62-	098	16200	62-
AUGHTON 03322	02 856++	016	009	768	002 ++ 05 970 ++ 02 940 ++ 02 928 ++ 03 918 ++ 01- 906 10 01 648 10- 13- 635 09- 13- 582 12- 17- 508 ++ 21- 497 19- 23- 478 ++ 28- 388 32- 36- 369 35- 41- 334 40- 45- 238 60- 186 61- 164 56- 134 60- 120 55- 105 60- 056 60-	223	11130	61-
	02 855++	017	010	768	007 ++ 03 956 ++ 02 909 05 01 896 08 03 840 06 07- 807 ++ 04- 705 ++ 11- 658 10- 12- 352 40- 43- 231 59- 195 60- 162 55- 085 60- 077 61-	105	15860	60-
HEMSBY 03496	02 855++	021	019	726	005 ++ 04 940 03 01 936 ++ 03 932 ++ 02- 924 12- 03- 918 ++ 08- 886 11 13- 749 02 20- 669 05- 18- 603 09- 24- 505 21- 365 37- 50- 307 47- 268 52- 263 55- 201 66- 178 60- 154 58-	231	10830	59-
	02 00901	021	020	760	003 09 05 982 ++ 05- 968 15 04- 829 ++ 09- 814 ++ 07- 657 07- 13- 641 ++ 19- 564 ++ 25- 502 22- 34- 358 40- 48- 240 59- 191 64- 172 57- 083 62- 043 63-	123	14810	58-
CRAWLEY 03774	01 00900	023	005	729	000 06 04 995 ++ 04 947 08 05 939 ++ 01- 920 12 06- 845 ++ 18- 739 01 18- 689 ++ 11- 632 ++ 17- 627 09- 19- 602 ++ 25- 587 10- 25- 485 22- 34- 416 29- 42- 344 ++ 49- 340 41- 210 63- 198 64- 174 56- 092 61- 060 61-	207	17770	61:
	02 00902	021	004	719	988 11 05 962 13 03 957 ++ 00 933 ++ 02 900 ++ 06- 857 09 04- 830 09 11- 722 ++ 13- 652 ++ 20- 625 ++ 18- 518 20- 29- 382 35- 45- 344 ++ 50- 335 41- 238 56- 187 61- 184 58- 171 51- 069 60-	201	11800	66-
CAMBORNE 03808	02 30970	018	007	758	987 08 06 967 14 06 948 14 00 831 06 08- 608 14- 17- 529 18- 25- 470 ++ 27- 343 40- 43- 247 57- 205 64- 190 64- 177 57- 141 56- 087 62- 034 62-	191	12040	64-
	02 785++	019	008	759	962 08 07 949 12 07 925 11 04 900 ++ 05 880 ++ 04- 845 ++ 00 788 ++ 09- 660 ++ 13- 638 ++ 17- 614 13- 18- 552 18- 21- 403 32- 35- 344 40- 44- 220 64- 176 55- 106 56- 098 60- 043 61-	205	11610	64-
VALENTIA 03953	60 863++	007	005	810	984 10 08 772 02- 04- 668 07- 16- 618 11- 34- 444 29- 46- 349 44- 218 62- 194 62- 168 56- 147 56- 104 62- 076 56- 063 63- 056 63-	220	11170	64-
	20 764++	013	011	755	996 08 06 929 04 03 864 04 01- 821 01 11- 786 01 32- 755 00 31- 682 05- 39- 590 15- 46- 509 25- 393 38- 309 53- 282 56- 262 57- 230 56- 218 53- 100 56- 089 60- 068 58-	098	16300	60-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 28500	005	005	942	980 03 03- 918 02- 07- 803 10- 13- 775 ++ 15- 770 12- 16- 750 ++ 19- 730 11- 22- 712 ++ 25- 666 15- 27- 585 19- 32- 538 25- 39- 437 34- 46- 394 40- 50- 251 61- 237 56- 138 49- 094 52- 060 57-	218	11100	62-
	16 785++	012	012	937	868 06- 10- 817 09- 11- 769 06- 19- 716 08- 23- 586 20- 31- 539 25- 37- 430 36- 45- 404 40- 48- 338 51- 295 58- 249 65- 220 57- 143 53- 070 59- 054 61-	104	15800	62-
Ocean Weather Station 'J' 52°30'N 20°00'W	855++	005	005	900	980 05 05 825 03- 03- 775 03- 18- 600 13- 34- 368 40- 50- 269 56- 250 56- 175 50- 055 54-	063	18900	63-
	03 785++	010	010	920	950 02 01- 865 04- 05- 820 00 04- 760 04- 09- 720 04- 12- 680 07- 15- 580 14- 24- 460 29- ++ 380 40- 48- 273 60- 225 61- 170 53- 107 52- 092 54- 061 54- 044 51- 039 56-	282	09500	56-
						089	16800	60-
						251	09900	61-
						249	10000	65-
						269	09700	56-
						273	09600	60-

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
141129	48.2°N 18.0°W	013 006 781	061 09 03	107	05 01	966 02 02	1426 04 31-	1917 02 31-	03- 15-	2975 07- 21-	09- 35-	4164 13- 35-	18- 35-	5526 23- 35-
Cloud :— 1/8Cu. 2000 to 5000ft; 8/8Sc. 2500 to 4700ft; 1/8Cs. 22000ft. to T.N.G. Inversion Levels :— 900 to 850mb 1½ to 4°C. Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
141253	45.9°N 13.2°W	015 008 778	061 10 10	125	06 04	987 01 01	1451 05 05	1945 02 ++	02- ++	3005 05- ++	09- ++	4194 13- ++	17- ++	5557 24- 37-
Cloud :— 2/8Ci. 25000 to H.N.G. 5/8 Sc. 2500 to 4000ft. Inversion Levels :— 900 to 850mb 1 to 5°C. Isothermal Levels :—														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.											Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2			

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	18000m 240 38 19500m 230 34 09260/0 11580/1 080mb 250 57 04500/5	220 102 10260m 240 87 10270m 230 80 10700m 240 75 10740m
STORNOWAY 03026	13700m 240 57 322mb 220 26 057mb 250 48 04540/5	220 68 10580m 220 66 11560m
SHANWELL 03170	15000m 220 41 03620/1 06400/0 06770/0	220 76 10800m 220 84 10880m 220 86 09580m 210 69 08850m
ALDERGROVE 03917	084mb 220 33 13300m 220 51 14900m 220 30 01900/6 08600/0 10500/1 10120/0 15790/0 16100/1	210 86 10600m 220 91 08800m 210 96 09830m
AUGHTON 03322	19200m 250 20 04850/1 12190/1 13260/1 16330/1 130mb 210 41 110mb 250 41 082mb 220 24 22200m 270 22 01890/0 11180/1	210 63 11330m 210 72 10680m 220 80 09780m
HEMSBY 03496	P19460m 250 18 17170m 250 15	
CRAWLEY 03774	063mb 260 14 01540/0 28800m 300 20 33000m 280 38 34200m 260 39 16500/2	
CAMBORNE 03808	038mb 260 09 047mb 230 13	200 65 10870m 210 64 10120m
VALENTIA 03953	00300m 190 32 00600m 190 40 09000m 210 68 929mb 250 25 755mb 240 36 590mb 240 45 262mb 220 63 068mb 250 36	210 70 08140m 220 66 10500m
Ocean Weather Station 'I' 59°00'N 19°00'W	446mb 230 61 226mb 210 70 067mb 220 51 211mb 250 55 057mb 240 57 18900m 240 47 02570/0	210 93 09600m 220 72 10410m 280 72 10000m 230 66 10940m
Ocean Weather Station 'J' 52°30'N 20°00'W	115mb 220 35 062mb 210 30 900mb 220 12 800mb 220 15 472mb 300 28 087mb 230 23 760mb 200 31 580mb 180 33 460mb 210 46 380mb 210 33 170mb 220 33 061mb 210 08 900mb 180 39 800mb 200 42 109mb 210 37	
LARKHILL 03743	14930m 210 25	

NOTES ON THE AEROLOGICAL SITUATION

The ridge over eastern Canada and the downstream trough extending southwestwards from the Denmark Straits continue to move slowly southeast. The trough west of the British Isles is moving steadily east while the warm ridge from Spain across western Europe to Finland is moving southeast. The trough over Russia to the eastern Mediterranean is being displaced eastwards in the north but remains almost stationary in the south with a cut-off low near Crete.

AVERAGE AND EXTREME VALUES 1951-55

FEBRUARY

LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...
60	18945	-60.1	-46	-71	309 24	26
100	15745	-58.1	-46	-69	304 17	25
150	13175	-55.3	-42	-72	311 18	28
200	11350	-56.7	-42	-70	318 20	35
300	8770	-52.7	-43	-61	322 21	46
400	6870	-41.4	-31	-56	315 17	42
500	5320	-30.1	-19	-43	308 13	35
700	2845	-13.7	-2	-23	292 7	26
850	1345	-5.7	4	-13	257 4	25

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	267	-60.4	9960
Max.	422	-43	12955
Min.	160	-75	6250

LARKHILL/CRAWLEY† at 03, 15h.
(Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...
60	19050	-60.1	-52	-73	308 18	25
100	15855	-58.1	-47	-71	307 20	28
150	13285	-55.5	-44	-70	310 25	34
200	11455	-56.9	-43	-72	313 27	41
300	8875	-52.2	-43	-61	315 28	52
400	6965	-39.9	-28	-54	309 23	44
500	5405	-28.2	-17	-41	306 18	35
700	2910	-11.2	2	-22	304 12	25
850	1395	-3.4	6	-15	302 8	22

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	264	-59.7	9835
Max.	456	-42	14355
Min.	126	-76	5850

MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	(15)
60	19250	-64.4	-59	-73	270 28	31
100	16115	-62.3	-55	-69	270 49	52
150	13575	-56.8	-47	-66	270 66	69
200	11740	-55.7	-43	-68	270 71	77
300	9125	-47.2	-37	-56	270 58	71
400	7165	-33.6	-26	-46	270 45	56
500	5565	-22.0	-13	-33	270 36	45
700	3005	-5.0	6	-13	275 23	30
850	1455	3.7	21	-3	275 17	24

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb.	°C	mb.	mb.	°C	°C
Lower	98	-63.6	...	72	...	-73
	230	-58.2	350	...	-52	...

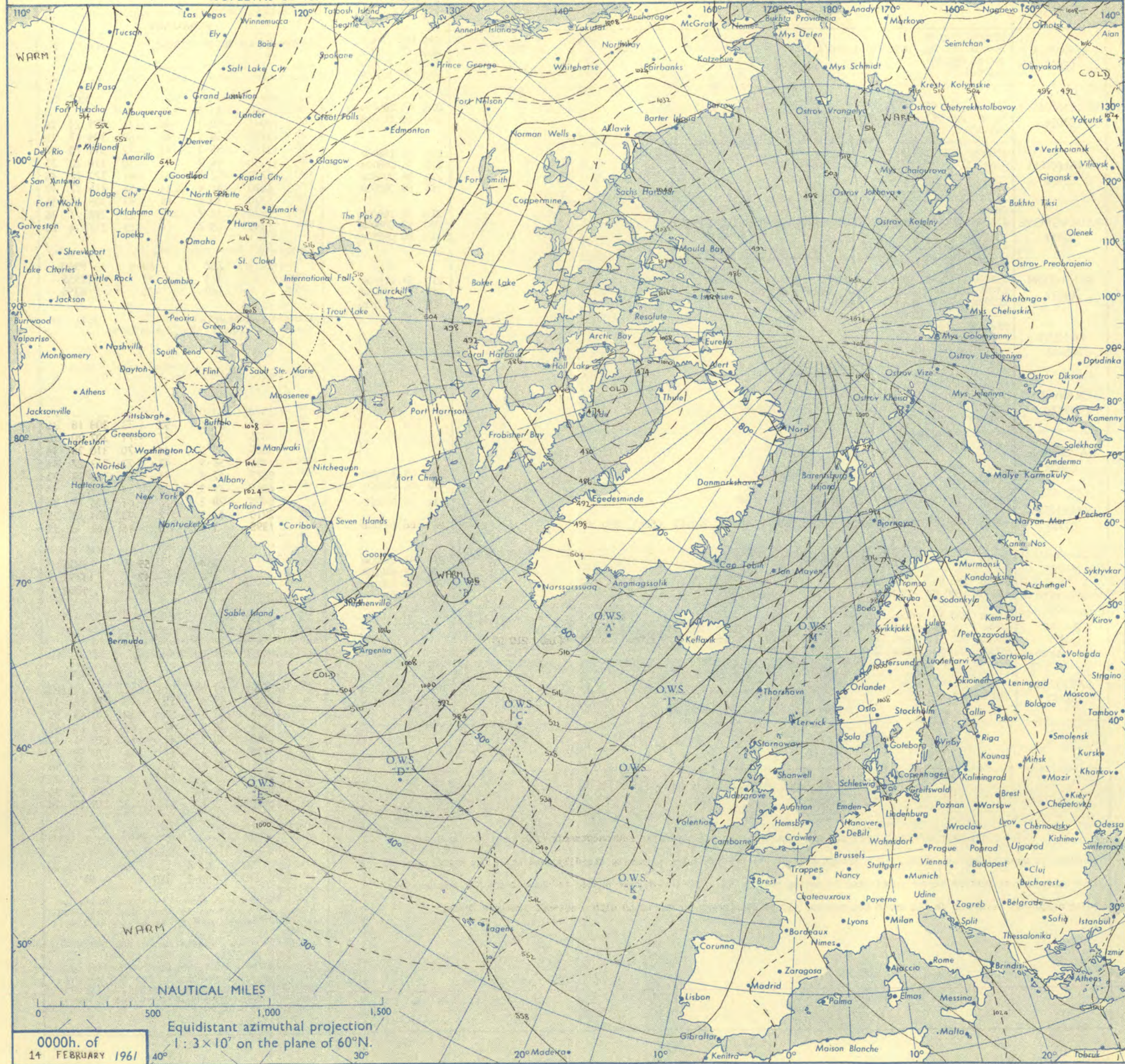
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

Thickness isopleths in geopotential decametres



0000h. of
14 FEBRUARY 1961

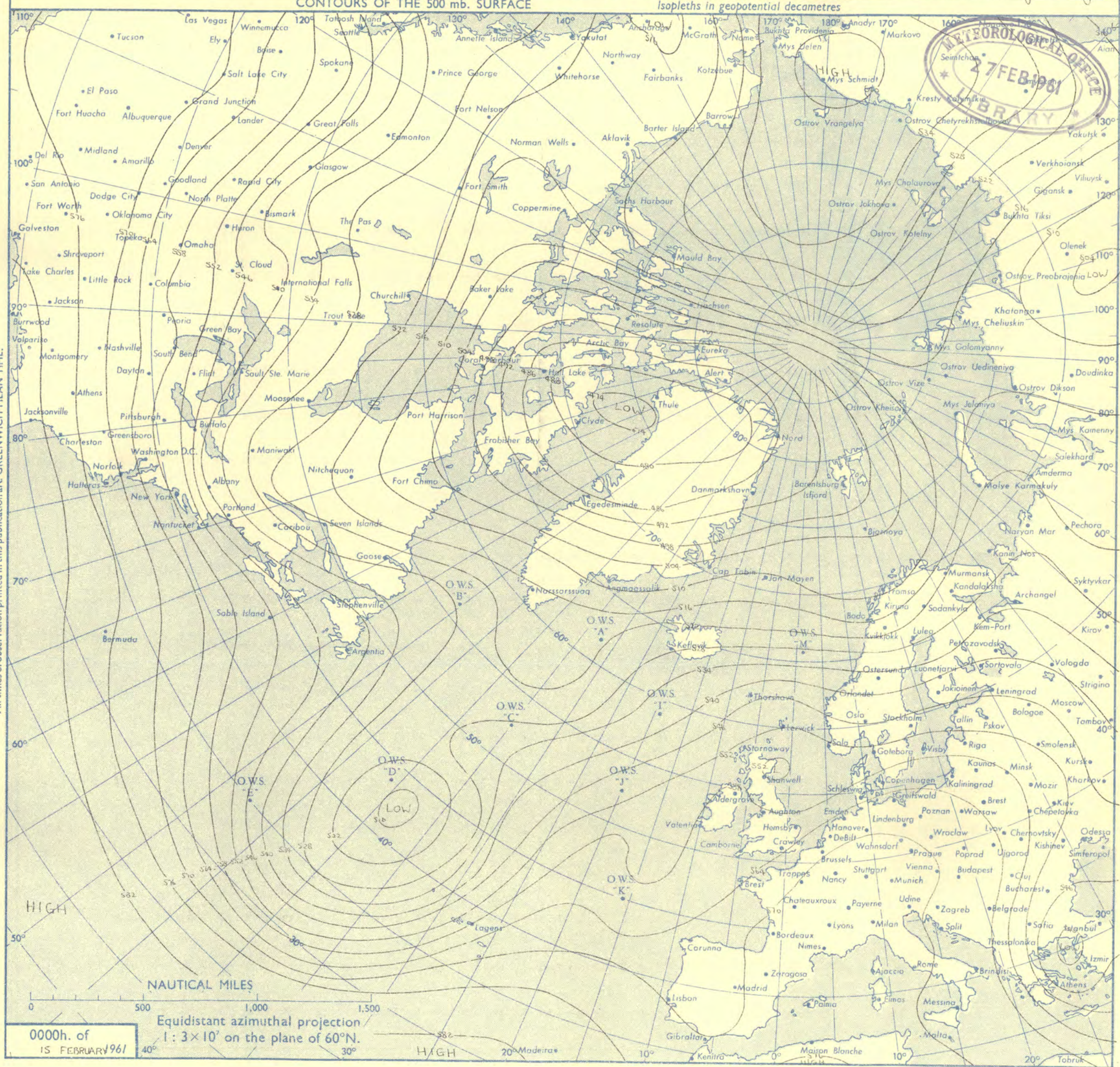
Equidistant azimuthal projection

1:3 x 10^7 on the plane of 60°N.

CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



NAUTICAL MILES

Equidistant azimuthal projection
 1: 3 × 10⁷ on the plane of 60°N.

0000h. of
 15 FEBRUARY 1961

HIGH

20° Madeira

10°

Gibraltar

Maison Blanche

10°

Messina

Brindisi

Thessalonika

Safra

Izmir

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C				
LERWICK 03005	142330	082	03	01	139	05	02	1448	00	08-	2991	07-	19-	5542	22-	35-	7143	34-	46-	9099	47-	++	11702	60-	13495	59-	16072	56-	18341	56-	20488	55-	23729	57-						
	151130	082	06	05	148	05	03	1465	00	01-	3008	05-	22-	5566	23-	44-	7151	37-	48-	9067	54-	++	11569	67-	13345	60-	15885	59-	18101	63-	20158	66-								
STORNOWAY 03026	142330	013	07	05	124	06	03	1443	02	00	2985	07-	17-	5527	26-	49-	7098	40-	++	8996	56-	++	11531	57-	13363	56-	15934	58-												
	151130	013	09	06	165	06	03	1476	02	06-	3034	02-	20-	5606	22-	38-	7208	34-	47-	9144	51-	++	11674	68-	13421	61-	15967	58-	18202	60-	20291	60-	23436	61-						
SHANWELL 03170	142330	005	08	08	119	09	06	1445	02	01	2982	09-	11-	5508	26-	37-	7081	39-	48-	9006	49-	++	11628	54-	13463	55-	16035	59-	18278	59-										
	151130	005	10	05	187	08	03	1518	04	08-	3077	03-	22-	5650	22-	36-	7250	35-	48-	9189	52-	++	11716	68-	13486	59-	16044	57-	18274	61-										
ALDERGROVE 03917	142330	077	08	07	141	07	05	1464	02	01	3014	04-	24-	5586	23-	46-	7174	38-	++	9086	55-	++	11623	55-	13448	58-	16016	57-												
	151130	077	08	04	207	06	03	1534	05	13-	3100	02-	25-	5681	21-	43-	7281	35-	++	9221	50-	++	11757	68-	13533	60-	16089	57-	18325	61-	20420	61-	23581	64-						
AUGHTON 03322	142330	056	08	05	161	08	06	1490	03	03-	3042	04-	19-	5594	23-	38-	7189	36-	49-	9121	52-	++	11693	55-	13532	54-	16114	59-	18342	58-	20452	59-								
	151130	056	10	05	227	06	01	1554	04	14-	3115	02-	24-	5687	23-	45-	7277	37-	++	9199	54-	++	11725	62-	13529	57-	16084	59-	18308	60-	20384	63-								
HEMSBY 03496	142330	012	08	06	174	10	06	1528	08	03-	3090	05-	12-	5643	23-	30-	7243	34-	39-	9194	49-	++	11758	63-	13560	57-	16127	61-	18335	61-										
	151130	012	09	08	236	06	04	1576	05	05-	3132	05-	12-	5703	22-	38-	7299	36-	++	9234	52-	++	11781	61-	13603	56-	16165	61-	18380	61-										
CRAWLEY 03774	142330	144	07	07	198	07	05	1546	07	04-	3104	05-	11-	5660	23-	28-	7258	34-	38-	9211	49-	++	11770	59-	13600	56-	16162	59-	18383	60-	20477	62-								
	151130	144	07	07	245	06	04	1589	07	01-	3148	05-	14-	5719	20-	33-	7326	35-	44-	9266	50-	++	11832	58-	13664	55-	16240	57-												
CAMBORNE 03808	142330	088	10	10	188	09	07	1525	05	02-	3075	07-	16-	5626	24-	29-	7216	37-	42-	9146	52-	++	11700	59-	13511	57-	16079	60-	18293	61-	20376	62-								
	151130	088	10	10	215	08	06	1551	03	01	3102	07-	10-	5644	25-	31-	7230	37-	45-	9148	54-	++	11719	56-	13546	57-	16110	59-	18343	59-										
VALENTIA 03953	142335	014	08	07	166	07	05	1494	05	14-	3055	02-	31-	5630	22-	48-	7220	35-	++	9150	52-	++	11680	60-	++++	++	16020	58-												
	151130	014	10	07	220	08	06	1524	05	06-	3091	02-	28-	5670	20-	39-	7290	34-	50-	9250	47-	++	11820	66-	++++	++	16160	56-												
Ocean Weather Station 'I' 59°00'N 19°00'W	150001		07	05	034	07	05	1348	03-	04-	2863	11-	12-	5380	27-	30-	6950	40-	44-	8870	52-	++	11460	55-	13310	53-														
	151200		09	07	057	08	06	1354	02-	10-	2886	08-	15-	5430	23-	26-	7040	33-	37-	9000	50-	++	11550	63-	13330	59-	15900	57-	18160	58-	20260	60-	23420	61-						
Ocean Weather Station 'J' 52°30'N 20°00'W	150001		10	09	052	09	09	1380	05	01	2955	01-	17-	5530	22-	36-	7130	34-	45-	9070	51-	++	11600	64-	13390	56-	15980	54-	18230	58-	20350	58-	23570	++						
	151200		10	10	036	10	10	1390	06	03	2949	03-	05-	5530	20-	28-	7150	32-	38-	9110	48-	++	11640	65-	13440	56-	16032	52-	18340	++										

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 00900	017 007 923 837	000 05 02 993 ++ 01 895 02- 06- 866 01 06- 837 00 08- 777 00 11- 702 07- 19- 460 26- 38- 370 38- 49- 255	54- 204 50- 171 62- 122 55- 100 56- 030 57- Pressure doubtful above 300 mb		204	11580	60-
	02 563++	018 008 861 804	956 03 02 931 04 02 914 ++ 01 853 00 02- 838 01 02- 810 ++ 06- 756 ++ 09- 670 06- 28- 466 ++ 42- 371 40-	50- 267 60- 207 70- 190 63- 160 60- 100 59- 044 67- 035 65-		207	11350	70-
STORNOWAY 03026	01 15600	015 014 821	000 ++ 03 945 03 02 930 ++ 02 844 02 01- 790 02- 04- 763 02- 09- 708 06- 16- 648 10- 29- 521 ++ 46- 396	40- 280 60- 262 62- 251 60- 227 63- 216 57- 190 57- 175 54- 075 59-		262	09850	62-
	01 354++	020 019 908 760	008 07 03 875 02- 03- 867 ++ 01- 858 02 03- 850 ++ 06- 831 02 12- 824 ++ 14- 775 ++ 10- 754 ++ 16- 717	01- 19- 571 15- 33- 546 16- 33- 508 22- 38- 412 32- 47- 384 37- 50- 302 51- 215 66- 192 69- 182 69- 177 65-		192	11910	69-
SHANWELL 03170	61 863++	015 014 823	004 09 07 725 ++ 08- 678 ++ 14- 645 ++ 28- 575 18- 37- 513 25- 38- 467 30- 37- 430 35- 42- 390 40- 50- 355	45- 256 53- 115 57- 100 59- 068 59-		256	10040	53-
	02 35602	023 022 748	973 05 01 956 05 02 938 07 01 905 06 02- 875 05 09- 846 04 08- 793 03 17- 693 04- 23- 643 08- 22- 606 10-	25- 384 37- 49- 297 52- 197 69- 186 64- 156 59- 106 56- 089 60- 067 61-		197 (089)	11800 16790	69- 60-)
ALDERGROVE 03917	02 363++	017 008 804 763	911 03 02 887 03 02 828 ++ 00 784 01- 07- 763 00 09- 740 ++ 19- 611 09- 35- 400 38- ++ 278 59- 257 62-	225 64- 212 55- 137 58- 100 57-		225	10900	64-
	02 755++	025 016 721	939 01 01- 918 08 00 908 ++ 07- 817 03 15- 763 03 18- 616 09- 32- 446 29- 50- 340 44- 208 68- 193 68- 182	60- 145 60- 129 57- 091 58- 077 61- 043 63- 038 61- 030 64-		208	11500	68-
AUGHTON 03322	02 00900	020 013 782	918 05 03 893 05 01 822 ++ 04- 807 01 07- 757 01- 13- 741 00 12- 702 ++ 19- 586 15- 29- 555 17- 32- 375	40- 356 43- 253 59- 225 56- 132 54- 090 61- 066 58- 061 62- 056 58- 050 59-		253 098	10190 16240	59- 60-
	03 35500	028 021 736	018 08 03 971 04 00 834 04 00 909 07 06- 904 ++ 07- 842 ++ 14- 812 02 06- 787 ++ 07- 774 ++ 15- 769 02	15- 636 07- 30- 582 14- 38- 378 40- ++ 277 59- 241 63- 216 64- 162 57- 082 61- 075 60- 058 64- 044 62-		241 098	10590 16200	63- 60-
HEMSBY 03496	02 00900	022 020 751	011 10 07 980 11 08 959 ++ 04 935 12 03 894 09 01- 876 10 02- 804 03 05- 756 00 08- 702 05- 12- 689 06-	14- 639 ++ 17- 600 ++ 22- 521 21- 28- 358 40- 46- 247 58- 203 64- 194 60- 128 55- 099 61- 051 62-		203	11660	64-
	10 864++	029 027 764	007 06 04 004 ++ 04 989 07 05 964 06 03 950 10 00 930 ++ 02 897 09 01- 785 ++ 09- 758 ++ 09- 741 ++ 11-	699 05- 12- 635 09- 19- 620 08- 24- 406 35- 49- 256 60- 234 62- 201 61- 168 55- 124 56- 100 61- 070 61-		234 100	10800 16165	62- 61-
CRAWLEY 03774	45 9+0++	024 006 761	999 ++ 04 991 06 04 985 ++ 06 966 13 05 955 ++ 01 930 12 01- 845 07 04- 701 05- 12- 652 ++ 18- 600 ++	19- 356 ++ 44- 243 60- 230 62- 213 62- 192 56- 105 58- 090 61- 069 60- 047 62-		230	10900	62-
	45 9+0++	031 012 763	002 ++ 04 988 05 03 974 08 06 955 ++ 07 945 11 04 940 ++ 01 918 11 02 854 ++ 01- 819 05 08- 812 ++ 09-	754 01- 11- 713 ++ 11- 700 ++ 14- 661 ++ 13- 625 ++ 18- 572 ++ 22- 542 16- 28- 481 ++ 35- 438 28- 36- 427		236 (089)	10800 16990	61- 60-
CAMBORNE 03808	50 861++	023 012 781	998 ++ 07 921 06 04 899 07 05 852 ++ 02- 830 04 03- 746 03- 10- 706 06- 16- 672 09- 15- 663 08- 14- 552	++ 22- 432 32- 37- 376 40- 45- 270 57- 237 61- 134 55- 092 63- 088 61- 036 63-		237 092	10650 16600	61- 63-
	50 861++	026 015 790	002 08 06 988 ++ 07 926 06 05 900 06 04 795 ++ 03- 740 ++ 05- 690 07- 08- 629 12- 14- 580 15- 19- 538 21-	25- 432 ++ 40- 392 38- 46- 303 54- 283 57- 210 59- 191 54- 180 58- 168 58- 158 54- 100 59- 055 60-		283 180	09510 12390	57- 58-
VALENTIA 03953	01 22500	020 019 795 730	014 08 07 937 04 03 909 02 07- 896 07 09- 827 04 16- 783 01- 20- 759 02 20- 679 04- 33- 603 12- 42- 583	12- 42- 444 30- 399 35- 353 44- 298 52- 232 67- 216 60- 092 57- 071 60- 054 60-		232	10700	67-
	03 725++	025 023 720	923 02 01 913 05 02- 876 02 03- 860 05 03- 800 02 12- 785 04 13- 758 03 24- 697 02- 28- 642 07- 21- 526	17- 34- 384 37- 336 41- 285 50- 188 69- 160 58- 141 61- 130 55- 090 56- 080 59- 058 60-		188	11500	69-
Ocean Weather Station 'I' 59°00'N 19°00'W	80 825++	004 004 893	976 06 03 907 01 00 755 08- 09- 622 15- 17- 562 20- 23- 424 37- 40- 397 40- 44- 377 42- 260 57- 238 55-	205 56- 194 54- 180 56- 161 53- 144 53-		260	09800	57-
	02 755++	005 005 885	980 ++ 03 950 ++ 03 914 01 02- 899 ++ 03- 875 ++ 04- 856 02- 09- 838 ++ 14- 804 02- 17- 786 02- 14- 758	++ 11- 701 08- 15- 653 10- 17- 620 13- 18- 609 12- 17- 539 20- 23- 445 27- 31- 351 40- 44- 289 52- 233 62-		190	11900	65-
Ocean Weather Station 'J' 52°30'N 20°00'W	862++	005 005 720	975 08 08 900 04 04 855 06 02 790 03 08- 685 02- 18- 550 16- 31- 365 40- 50- 280 55- 257 60- 235 65- 206	67- 185 61- 170 59- 132 56- 087 57- 047 59- 031 58-		206	11400	67-
	60 874++	003 003 750	968 08 08 925 10 10 800 03 01 650 06- 08- 600 10- ++ 559 13- 17- 444 27- ++ 350 40- 46- 240 63- 208 67-	198 65- 180 58- 072 52-		208	11400	67-

STATION*	YYGG	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m		
LERWICK 03005	142330	T	020 10	+++ ++	080 11	050 04	050 09	060 05	350 05	340 12	320 13	280 24	P250 32	250 48	250 51	250 45	250 46	260 56					
	150530	P	120 08	+++ ++	150 13	140 14	130 18	170 10	190 13	230 13	280 19	280 33	270 36	260 43	250 50	260 48	260 50						
	151130	T	190 18	+++ ++	230 23	230 27	240 29	240 30	240 38	250 42	270 50	290 57	300 71	280 56	270 46	260 47	260 56						
	151756	P	230 20	+++ ++	260 30	250 31	260 28	270 29	280 50	280 52	280 52	280 56	280 68	290 60	270 45	260 50	280 50						
STORNOWA 03026	142330	T	110 13	+++ ++	130 11	150 07	120 09	130 10	050 20	330 17	330 20	310 38	270 26	260 40	240 48	240 44	260 45						
	140558	P	170 06	+++ ++	220 25	230 21	250 24	250 29	220 33	250 30	290 45	300 55	290 61	250 46	250 41	250 46						260 41	
	151130	T	220 09	+++ ++	220 28	230 36	250 39	250 39	260 45	260 57	260 50	270 46	280 50	290 50	260 47	250 47						250 35	
	151730	P	200 25	+++ ++	230 40	230 40	230 41	220 33	220 37	230 41	250 51	260 38	280 49	280 52	260 40	260 42							
SHANWELL 03170	142330	T	230 06	+++ ++	250 18	230 08	230 05	260 08	260 12	280 14	270 20	280 25	250 36	250 39	240 40	240 38	260 34						
	150530	P	250 06	+++ ++	260 16	260 17	260 21	270 24	290 30	300 37	290 38	300 39	280 42	250 37	250 40	260 42							
	151130	T	240 16	+++ ++	260 21	250 21	280 24	270 28	290 31	290 29	280 26	300 26	320 36	320 36	270 35	P240 40							
	151730	P	220 05	+++ ++	250 18	230 22	240 21	260 21	270 27	250 23	260 24	300 18	330 28	300 30	270 34	260 38							
ALDERGROVE 03917	142330	T	230 17	+++ ++	270 20	290 20	280 40	280 39	300 41	290 42	300 39	300 44	270 39	260 37	240 42	250 32	250 43	250 32					
	150530	P	200 09	+++ ++	260 18	280 16	240 20	250 26	250 28	260 37	270 40	270 31	280 29	250 25	240 38							250 32	
	151130	T	200 15	+++ ++	220 19	230 18	240 22	230 22	240 25	240 22	270 08	020 05	360 09	310 32	260 25							240 31	250 34
	151750	P	140 08	+++ ++	200 27	190 24	190 20	180 24	190 27	200 10	170 06	350 12	320 41	300 22	260 29							250 32	
AUGHTON 03322	142330	T	200 12	+++ ++	260 27	260 26	260 39	260 39	260 39	250 41	260 43	240 69	230 63	240 45	230 38	240 24	270 22	260 18	270 27				
	150530	P	240 04	+++ ++	260 18	260 24	260 27	260 28	300 26	310 31	290 25	280 19	240 38	250 35	250 38	250 35	260 28						
	151130	T	000 00	+++ ++	260 14	260 17	210 11	250 09	220 09	210 06	290 07	300 07	280 04	270 21	250 34	250 27	270 24						
	151730	P	100 10	+++ ++	190 11	210 14	200 18	140 17	140 15	120 16	090 12	080 16	040 30	300 07	270 24	250 29	260 28						
HEMSBY 03496	142330	T	240 08	+++ ++	240 29	240 29	240 32	230 34	230 43	230 44	230 47	230 39	230 41	230 43	230 41	260 25	270 21	300 22	270 20				
	150530	P	250 08	+++ ++	270 27	260 36	250 40	250 38	250 37	290 32	250 33	250 48	240 50	250 32	240 33	250 30	290 24						
	151130	T	270 05	+++ ++	260 22	250 28	260 34	270 28	280 15	310 08	260 10	260 27	250 38	250 32	260 32	250 27	260 27						
	151730	P	200 04	+++ ++	270 17	260 24	250 26	240 15	100 04	110 06	250 02	250 19	260 23	270 18	260 31	250 30							
CRAWLEY 03774	142330	T	270 08	+++ ++	250 17	250 19	240 24	230 29	230 43	220 42	220 43	230 36	220 40	210 41	240 34	260 24	250 21	240 10					
	150535	P	240 03	+++ ++	250 07	240 16	240 23	230 27	230 19	240 18	250 28	230 42	220 47	240 30	230 28	P240 24							
	151130	T	000 00	+++ ++	250 08	240 12	220 20	210 27	210 18	210 12	200 16	210 17	220 38	230 27	240 28	260 22	260 18						
	151730	P	000 00	+++ ++	160 07	200 12	190 14	200 22	210 22	200 16	200 20	210 37	210 23	240 13	250 24	260 22							
CAMBORNE 03808	142330	T	180 08	+++ ++	200 14	200 16	190 26	190 27	210 13	220 09	220 22	220 31	190 48	220 31	230 29	230 26	240 17	240 08					
	150530	P	180 06	+++ ++	190 15	200 18	200 19	180 20	170 16	190 13	130 08	080 02	210 20	220 25	240 30	230 28	250 20						
	151130	T	110 14	+++ ++	170 13	180 10	210 13	220 13	190 07	220 10	240 11	250 07	300 10	260 16	250 23	240 21	250 17						
	151730	P	000 00	+++ ++	230 08	230 11	220 12	220 12	280 11	300 08	290 08	340 22	350 28	310 17	270 20								
VALENTIA 03953	142335	T	160 08	180 11	+++ ++	220 14	+++ ++	220 16	+++ ++	180 12	240 10	260 10	+++ ++	240 31	+++ ++	230 31							
	151130	T	180 17	180 22	+++ ++	170 16	+++ ++	210 14	+++ ++	150 19	230 03	330 26	+++ ++	310 41	+++ ++	240 32							
Ocean Weather Station 'I' 59°00'N 19°00'W	150001	T	170 28	+++ ++	180 32	190 31	200 41	200 48	200 43	200 55	210 50	210 56	220 62	220 47	250 60	230 47	230 39						
	150600	P	225 30	+++ ++	210 34	230 39	240 46	230 45	220 64	240 78	240 81	240 90	230 99	250 105	260 76							230 48	
	151200	T	210 25	+++ ++	230 24	240 27	230 36	230 52	210 68	240 66	230 63	230 84	230 96	230 60	230 55							230 47	
	151800	P	090 10	+++ ++	150 24	180 34	200 44	210 53	210 60	240 66	220 96	210 95	210 133	210 94									
Ocean Weather Station 'J' 52°30'N 20°00'W	150001	T	160 15	160 15	+++ ++	210 25	+++ ++	230 45	+++ ++	230 51	230 59	240 64	+++ ++	250 67	280 56	280 45	210 13						
	150500	T	180 22	+++ ++	+++ ++	190 34	+++ ++	190 46	190 61	190 59	190 44	210 49	+++ ++	260 89	220 53	210 22							
	151200	T	150 36	150 37	+++ ++	190 71	+++ ++	190 56	200 52	210 65	190 75	190 77	+++ ++	190 117									
	151700	T	180 32	180 32	+++ ++	190 62	+++ ++	190 53	200 85	190 95	190 103	190 93	190 126										
LARKHILL 03743	150730	P	200 03	+++ ++	240 16	240 25	220 30	210 28	200 13	210 07	220 22	220 33	210 33	240 22	240 28	270 18							
	151130	P	180 03	+++ ++	210 11	220 22	220 31	200 26	210 24	170 12	180 19	190 33	210 24	230 19	240 28	240 24							

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :—														
Inversion Levels :—														
Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :—														
Inversion Levels :—														
Isothermal Levels :—														
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AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	46
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	-3.7	21	-3	275	17	24
Tropopause		Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		98	-63.6	...	72	...	-73
		230	-58.2	350	...	-52	...
* V _R = Vector average wind. V _S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.							
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.							
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.							

The troughs over eastern America and the west Atlantic have both advanced east and a ridge has amplified north of the Azores. The weak trough west of the British Isles yesterday is now over Scotland with a remnant southwest of Ireland. The ridge over Central Europe has extended eastward into Russia, whilst a low remains cut-off over Turkey.

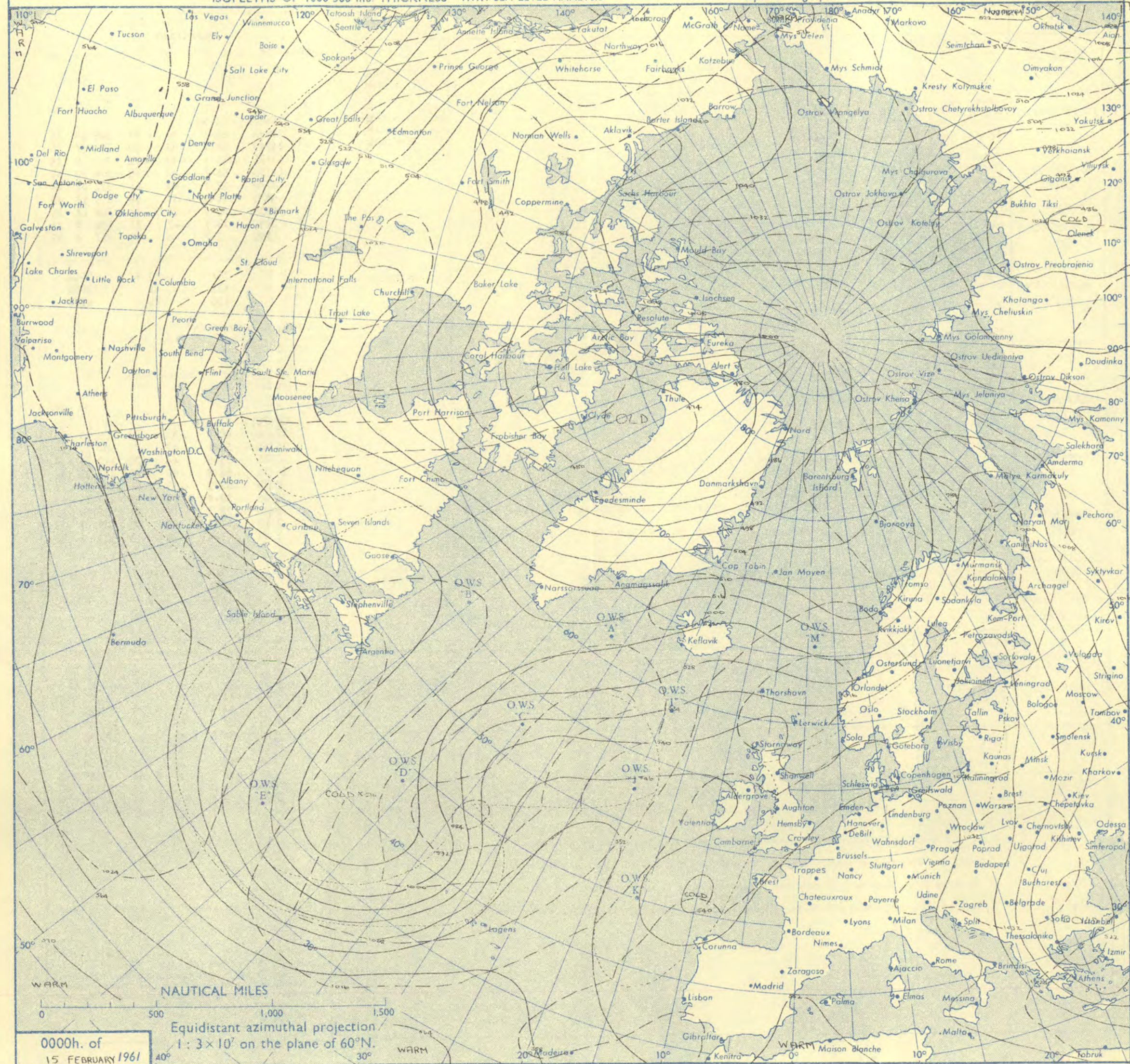
* V_R = Vector average wind. V_S = average wind speed.
Average winds are based on observations at Larkhill,
Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at
03, 15h.

† Observations were made at Larkhill (Lat. $51^\circ 12' N.$,
Long. $01^\circ 48' W.$) up to 28th April, 1953.

Notes: No vector average winds and no extreme values
for any element are given for less than 10 observations.
Otherwise no averages are given for less than 3 observa-
tions and average values based on less than 10 observa-
tions are given in brackets.

ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

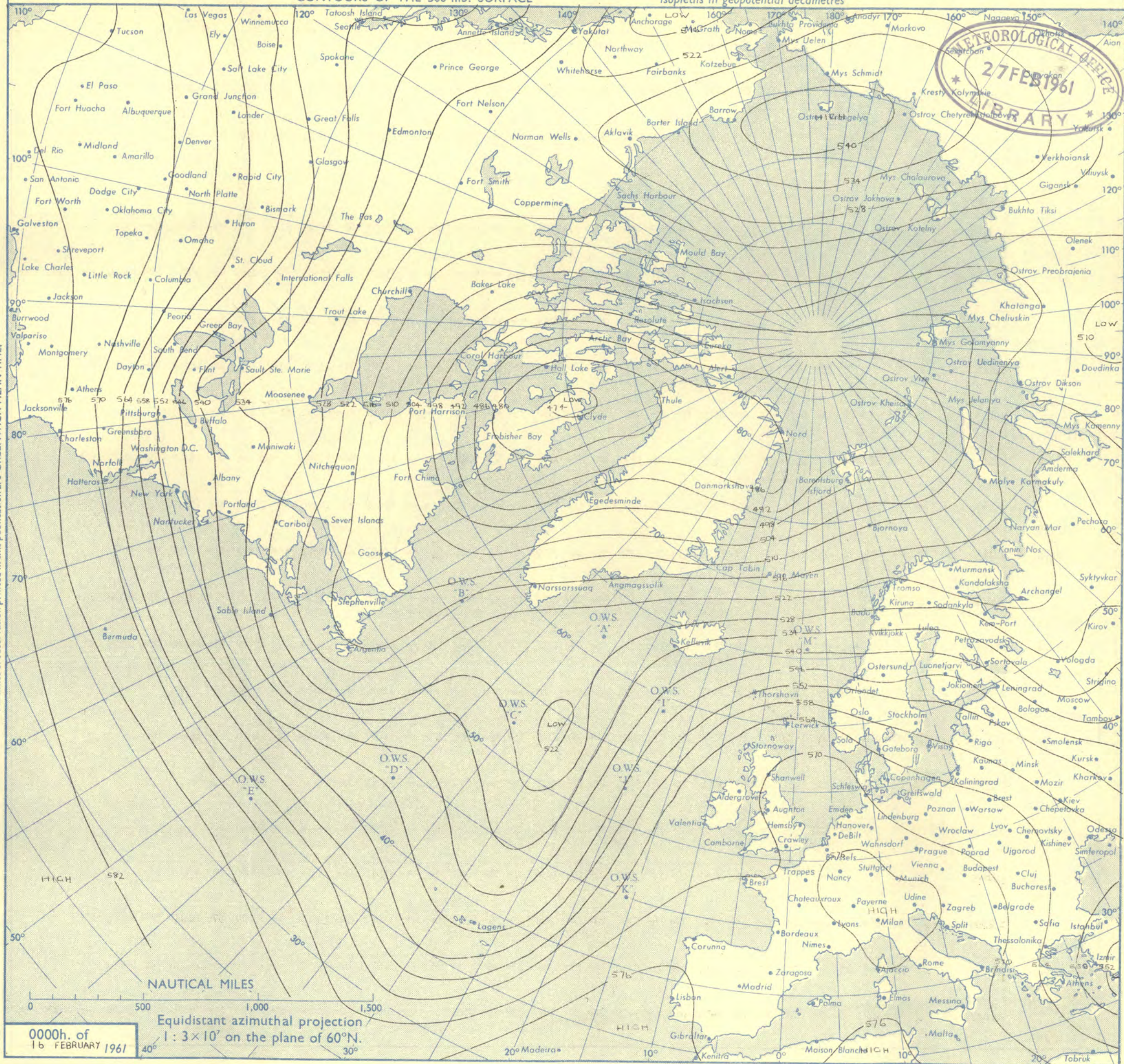
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C			
LERWICK 03005	152330	082	06	04	188	06	04	1513	03	03-	3072	03-	22-	5651	21-	40-	7257	34-	++	9212	49-	++	11744	69-																
	161130	082	09	07	175	10	07	1519	04	00	3075	02-	15-	5658	20-	35-	7273	33-	47-	9228	49-	++	11773	69-	13473	65-	15962	62-	18143	65-	20194	65-								
STORNOWAY 03026	152330	013	08	06	184	06	04	1504	04	11-	3069	02-	27-	5642	22-	++	7243	35-	++	9190	50-	++	11715	71-	13413	65-	15907	62-	18111	64-										
	161130	No ascent made																																						
SHANWELL 03170	152330	005	06	05	226	06	03	1551	06	03-	3122	00	31-	5702	22-	++	7306	34-	++	9264	49-	++	11800	69-	13543	61-	16070	59-	18285	62-	20373	62-								
	161130	005	09	08	223	07	05	1547	03	04-	3111	01-	17-	5707	19-	43-	7326	31-	++	9295	48-	++	11828	70-	13585	59-	16124	58-	18360	59-	20464	59-	23650	59-						
ALDERGROVE 03917	152330	077	10	08	219	09	06	1547	04	17-	3105	01-	18-	5687	22-	45-	7293	33-	++	9255	48-	++	11795	68-	13532	63-	16052	62-												
	161130	077	08	05	215	05	03	1542	07	02-	3105	04-	13-	5678	22-	37-	7283	31-	46-	9245	50-	++	11773	71-	13520	63-	16032	62-	18232	63-	20315	61-								
AUGHTON 03322	152330	056	08	07	250	08	06	1578	02	04-	3129	02-	23-	5710	21-	40-	7312	35-	++	9260	49-	++	11812	66-	13592	61-	16120	60-												
	161130	056	09	08	250	08	06	1576	05	11-	3129	04-	14-	5695	23-	38-	7286	36-	47-	9224	51-	++	11809	60-	13604	61-	16134	60-	18349	61-	20433	64-								
HEMSBY 03496	152330	012	07	07	265	09	07	1611	06	01-	3168	03-	23-	5738	22-	40-	7336	35-	++	9271	51-	++	11807	62-	13594	59-	16141	59-	18357	62-	20443	62-								
	161135	012	07	07	274	06	03	1614	06	13-	3173	03-	28-	5735	22-	43-	7330	36-	++	9266	51-	++	10427	61-	13585	60-	16117	61-	18320	62-										
CRAWLEY 03774	152330	144	06	06	268	05	03	1603	06	07-	3155	04-	29-	5712	24-	37-	7298	37-	47-	9220	53-	++	11768	59-	13576	58-	16115	61-	18322	62-	20399	63-								
	161130	144	07	07	282	05	03	1623	06	14-	3176	06-	26-	5731	23-	44-	7323	36-	++	9257	52-	++	11837	57-	13663	57-	16230	59-	18474	59-	20584	59-								
CAMBORNE 03808	152330	088	08	08	258	07	05	1588	05	12-	3137	05-	18-	5694	23-	35-	7286	36-	46-	9237	48-	++	11822	57-	13622	59-	16161	59-												
	161130	088	10	07	246	09	06	1588	07	12-	3152	03-	21-	5723	22-	38-	7320	35-	49-	9285	47-	++	11870	62-	13659	62-	16214	59-	18446	60-										
VALENTIA 03953	152330	014	10	08	201	09	07	1531	03	01	3094	01-	18-	5680	20-	44-	7310	29-	++	9290	48-	++	11810	71-	++++	++	16070	61-												
	161136	014	11	09	187	09	07	1520	08	14-	3092	02-	15-	5690	19-	22-	7310	31-	34-	9290	45-	++	11870	66-	++++	++	16140	60-												
Ocean Weather Station 'I' 59°00'N 19°00'W	160001		10	10	005-	++	++	1330	03	01	2880	06-	13-	5420	24-	29-	7020	34-	38-	8970	50-	++	11510	59-	13330	57-	15880	59-	18110	61-										
	161200		10	10	042-	++	++	1284	02	01-	2831	05-	18-	5380	23-	26-	6980	35-	39-	8930	49-	++	11490	60-	13310	56-	15890	57-	18140	58-	20250	60-								
Ocean Weather Station 'J' 52°30'N 20°00'W	160000		11	10	016	11	10	1355	03	01	2916	03-	11-	5500	19-	27-	7120	32-	39-	9090	46-	++	11670	10-	13480	56-	16060	55-	18330	55-	20480	56-								
	161200		09	08	016	09	08	1360	04	00	2910	05-	09-	5470	20-	30-	7100	32-	41-	9060	48-	++	11620	60-	13440	55-	16030	54-	18310	54-	20460	54-	23730	++						

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	01 36402	023 013 742	984 06 04 923 03 02 894 04 02- 870 ++ 01- 821 03 05- 798 02 06- 751 01 13- 737 ++ 17- 654 06- 28- 416	32- 50- 207 69- 198 69- 189 71- 170 67-		189	12080	71-
	02 35632	021 011 735	996 10 06 982 ++ 05 919 09 05 807 00 04- 769 02 06- 740 ++ 12- 570 ++ 29- 465 24- 39- 378 36- 49- 248	59- 174 75- 166 74- 163 68- 127 62- 112 64- 100 62- 033 66-		174	12580	75-
STORNOWAY 03026	02 354++	023 021 733	911 01 00 875 04 04- 852 03 12- 827 05 15- 773 03 21- 506 ++ 48- 432 30- ++ 381 37- ++ 327 45- 184 74-	163 74- 158 68- 120 64- 111 61- 080 61- 067 65- 053 63-		184	12190	74-
						(067	18390	65-
SHANWELL 03170	02 25601	028 027 701	009 ++ 03 937 06 04 875 02 00 868 ++ 00 859 06 00 853 ++ 03- 809 05 07- 781 ++ 10- 763 02 15- 749 03	19- 716 01 26- 629 ++ 40- 518 20- 50- 379 36- 225 65- 213 66- 186 72- 175 65- 157 62- 100 59- 032 62-		186	12220	72-
	02 855++	027 027 718	009 ++ 06 892 02 01- 873 05 00 863 ++ 03- 829 02 05- 809 03 07- 720 00 16- 640 ++ 23- 586 10- 34- 492 20- 44- 373	35- 246 60- 193 71- 177 64- 167 65- 151 58- 108 61- 100 58- 086 61- 071 59- 030 59-		193	12050	71-
ALDERGROVE 03917	50 864++	027 017 739	002 ++ 06 960 ++ 04 914 03 00 900 07 03- 892 ++ 10- 876 06 13- 850 ++ 17- 812 ++ 17- 801 00 12- 792 ++	10- 771 01 11- 698 02- 18- 623 ++ 31- 577 12- 35- 482 24- 47- 324 44- 225 65- 206 67- 184 72- 169 64-		184	12290	72-
	02 754++	026 017 748	963 03 02 938 03 02 917 07 05 884 ++ 00 848 07 02- 767 ++ 11- 748 ++ 09- 716 ++ 11- 698 05- 15- 674 05-	18- 609 10- 25- 437 29- 43- 403 30- 45- 357 38- 277 54- 210 69- 197 71- 182 64- 151 64- 145 61- 099 61-		197	11860	71-
AUGHTON 03322	02 855++	031 024 772	018 09 06 000 ++ 06 858 02 02- 845 03 04- 840 03 06- 806 02 05- 795 ++ 11- 769 ++ 12- 722 03- 11- 702 02-	23- 644 07- 24- 607 09- 30- 364 40- ++ 230 62- 222 60- 194 67- 169 58- 158 60- 078 61-		194	12000	67-
	02 855++	031 024 759	946 ++ 01- 931 04 03 896 01 00 883 06 00 856 05 12- 819 ++ 15- 700 04- 14- 599 11- 28- 546 18- 34- 402	36- 47- 366 40- ++ 283 54- 192 60- 062 60- 050 64-		215	11340	60-
HEMSBY 03496	45 9+0++	033 031 766	014 06 04 000 09 07 962 11 05 898 09 01- 850 06 01- 834 ++ 05- 798 ++ 07- 750 ++ 09- 745 02- 11- 734 01-	18- 645 ++ 27- 618 10- 23- 572 14- 26- 548 ++ 34- 482 24- 43- 422 32- 50- 290 53- 252 60- 221 63- 152 59-		221	11200	63-
	10 862++	034 032 758	021 ++ 03 968 05 02 959 ++ 04 947 09 01- 908 10 05- 887 ++ 14- 810 ++ 14- 678 05- 33- 599 12- 32- 548	18- 38- 521 20- 41- 403 35- 50- 242 62- 225 65- 162 59- 101 61- 053 64-		225	11080	65-
CRAWLEY 03774	53 9+0++	034 015 787	008 ++ 04 976 04 03 963 07 06 936 06 05 924 ++ 00 917 09 01- 897 09 04- 783 ++ 10- 774 01- 13- 713 03-	28- 553 ++ 38- 506 ++ 36- 453 ++ 43- 378 ++ 50- 276 58- 254 60- 163 58- 092 62- 032 62-		254	10270	60-
	42 861++	035 017 770	007 ++ 03 983 04 02 952 06 04 947 ++ 04 931 ++ 08- 918 11 09- 878 ++ 16- 826 ++ 14- 807 ++ 18- 767 01-	22- 559 17- 38- 460 ++ 49- 275 56- 249 57- 116 56- 097 59- 038 59-		249	10430	57-
CAMBORNE 03808	50 862++	031 020 786	001 07 05 928 03 01 909 06 02 885 ++ 00 867 06 08- 860 ++ 10- 790 ++ 16- 773 01- 10- 745 04-	12- 721 04- 19- 716 04- 18- 659 ++ 24- 628 ++ 20- 580 ++ 23- 551 17- 26- 501 23- 34- 393 37- 47- 310 46-		218	11300	61-
	02 755++	030 019 753	954 04 03 939 04 03 923 11 05- 862 08 12- 717 03- 20- 693 03- 21- 427 32- 47- 369 39- 330 41- 238 58- 203	63- 162 59- 148 62- 131 56- 077 61- 055 59-		203	11750	63-
VALENTIA 03953	50 864++	025 023 715	929 05 03 912 06 04 766 00 03- 753 02 07- 684 01- 21- 627 07- 32- 471 24- 47- 443 24- 47- 349 38- 240 62-	200 71- 175 68- 159 62- 087 61- 067 60- 038 62-		200	11800	71-
	03 854++	023 021 725	904 03 02- 877 09 00 828 07 14- 768 03 20- 581 11- 23- 554 14- 20- 421 20- 23- 406 30- 32- 390 31- 34-	293 46- 246 57- 211 63- 198 66- 192 67- 182 70- 159 62- 120 52- 089 59- 081 59-		182	12500	70-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 864++	999 999 783	960 ++ 08 887 ++ 04 855 03 01 783 00 06- 758 ++ 09- 656 09- 15- 565 ++ 22- 552 20- 23- 543 20- 24- 511 24-	29- 489 24- 29- 419 31- 35- 360 40- 43- 276 54- 235 64- 214 66- 199 59- 147 57- 095 59- 088 57- 077 61-		214	11000	66-
	02 756++	995 995 789	916 04 03 856 01 00 846 03 02- 838 ++ 06- 801 ++ 10- 720 05- 17- 685 06- 19- 641 ++ 24- 607 ++ 19- 597 15-	19- 442 ++ 31- 387 36- 40- 361 38- 42- 251 60- 237 62- 157 56- 138 55- 123 58- 100 57- 074 57- 060 60- 037		237	10400	62-
Ocean Weather Station 'J' 52°30'N 20°00'W	01 874++	001 001 755	915 07 02 752 00 02- 650 06- 12- 600 10- 19- 344 40- 47- 261 56- 229 60- 204 61- 133 55- 039 57-			204	11500	61-
	2737+	001 001 780	935 07 03 305 02 02- 741 02- 06- 600 12- 20- 518 19- 29- 462 22- 32- 370 35- 44- 368 36- 45- 346 40- 49-	278 53- 236 60- 209 62- 172 56- 032 55-		209	11300	62-

UPPER WINDS AT ADDITIONAL LEVELS

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STATION		MAX. WIND
LERWICK 03005	22500m 280 52 035mb 280 54 17100m 260 41	290 80 11680m 270 66 20750m
STORNOWAY 03026	057mb 250 45	270 68 11570m
SHANWELL 03170	285mb 310 17 035mb 280 40 07400/1 10350/9 P29900m 290 66 02820/5 12400/2	300 68 30200m
ALDERGROVE 03917	328mb 160 15 P19500m 250 30 040mb 260 31 19200m 260 22 04500/7 12150/6	
AUGHTON 03322	219mb 040 20 180mb 310 17 084mb 260 24 10690/1 11110/5 12390/7 13020/5 13480/2 054mb 260 15 23100m 270 17	
HEMSBY 03496	039mb 280 27 20400m 300 21 060mb 280 20 13360m 230 11 20100m 270 24 11330/1	
CRAWLEY 03774	035mb 290 19 19500m 270 11 10520/1 12060/2 28800m 290 25 33000m 290 46 21980/2 21600m 310 13 09730/1 19060/2 21160/2	
CAMBORNE 03808	092mb 230 18 21300m 260 13 07800/0 11700/1 12260/5 334mb 330 34 175mb 280 10 065mb 260 16 11790/7 13950/2 15140/5	
VALENTIA 03953	912mb 180 36 753mb 210 32 240mb 260 18 159mb 230 29 067mb 240 31 038mb 260 18 00300m 170 34 00600m 170 41 18000m 210 30 19800m 240 20	
Ocean Weather Station 'I' 59°00'N 19°00'W	453mb 210 92 217mb 210 117 064mb 260 66 03900m 200 52 12600m 230 106 17700m 200 40 05220/0 10200/0 12420/1 12660/1 389mb 290 101 224mb 290 100 20100m 260 78	200 150 10120m 190 128 09250m 190 120 10250m
Ocean Weather Station 'J' 52°30'N 20°00'W	539mb 190 61 365mb 190 103 272mb 190 120 205mb 180 68 900mb 190 39 800mb 190 54 287mb 190 112 160mb 190 58 450mb 180 101 224mb 180 118 143mb 180 41 900mb 220 30 800mb 220 36 099mb 180 33	190 120 09700m 180 118 10920m
LARKHILL 03743	10630/4 10150/4	

NOTES ON THE AEROLOGICAL SITUATION

The trough which was over eastern America yesterday has moved east to Newfoundland, whilst that north of the Azores has advanced northeast and relaxed. A ridge has amplified west of the British Isles, whilst that over central Europe has declined very slowly. A trough has intensified over northwest Russia and a cut-off low persists near Cyprus.

AVERAGE AND EXTREME VALUES 1951-55 FEBRUARY

LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...
60	18945	-60.1	-46	-71	309	24
100	15745	-58.1	-46	-69	304	17
150	13175	-55.3	-42	-72	311	18
200	11350	-56.7	-42	-70	318	20
300	8770	-52.7	-43	-61	322	21
400	6870	-41.4	-31	-56	315	17
500	5320	-30.1	-19	-43	308	13
700	2845	-13.7	-2	-23	292	7
850	1345	-5.7	4	-13	257	4

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	267	-60.4	9960
Max.	422	-43	12955
Min.	160	-75	6250

LARKHILL/CRAWLEY† (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...
60	19050	-60.1	-52	-73	308	18
100	15855	-58.1	-47	-71	307	20
150	13285	-55.5	-44	-70	310	25
200	11455	-56.9	-43	-72	313	27
300	8875	-52.2	-43	-61	315	28
400	6965	-39.9	-28	-54	309	23
500	5405	-28.2	-17	-41	306	18
700	2910	-11.2	2	-22	304	12
850	1395	-3.4	6	-15	302	8

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	264	-59.7	9835
Max.	456	-42	14355
Min.	126	-76	5850

MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.

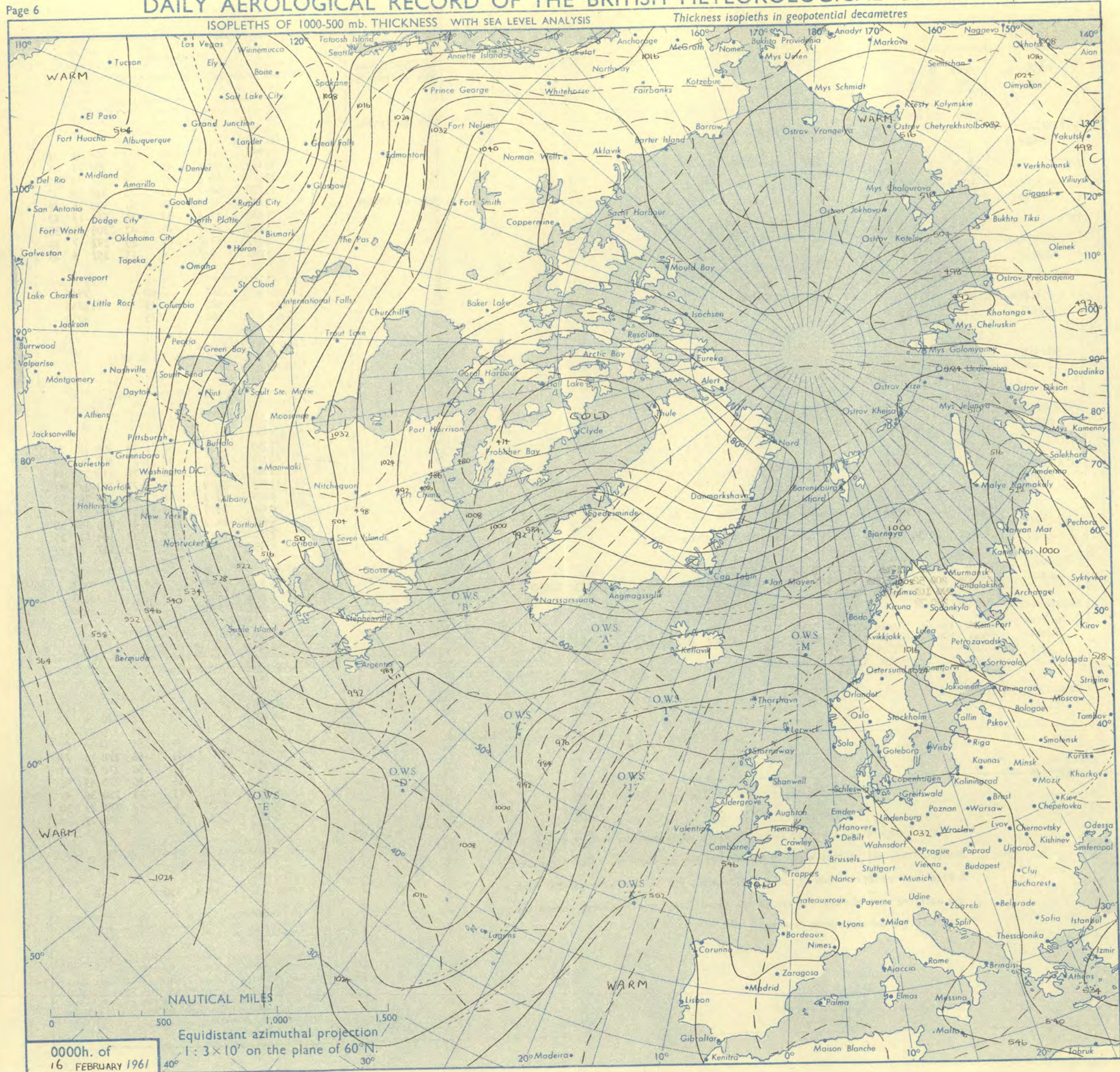
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28
100	16115	-62.3	-55	-69	270	49
150	13575	-56.8	-47	-66	270	66
200	11740	-55.7	-43	-68	270	71
300	9125	-47.2	-37	-56	270	58
400	7165	-33.6	-26	-46	270	45
500	5565	-22.0	-13	-33	270	36
700	3005	-5.0	6	-13	275	23
850	1455	3.7	21	-3	275	17

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	98	-63.6	mb.	72	°C	°C
Lower	230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

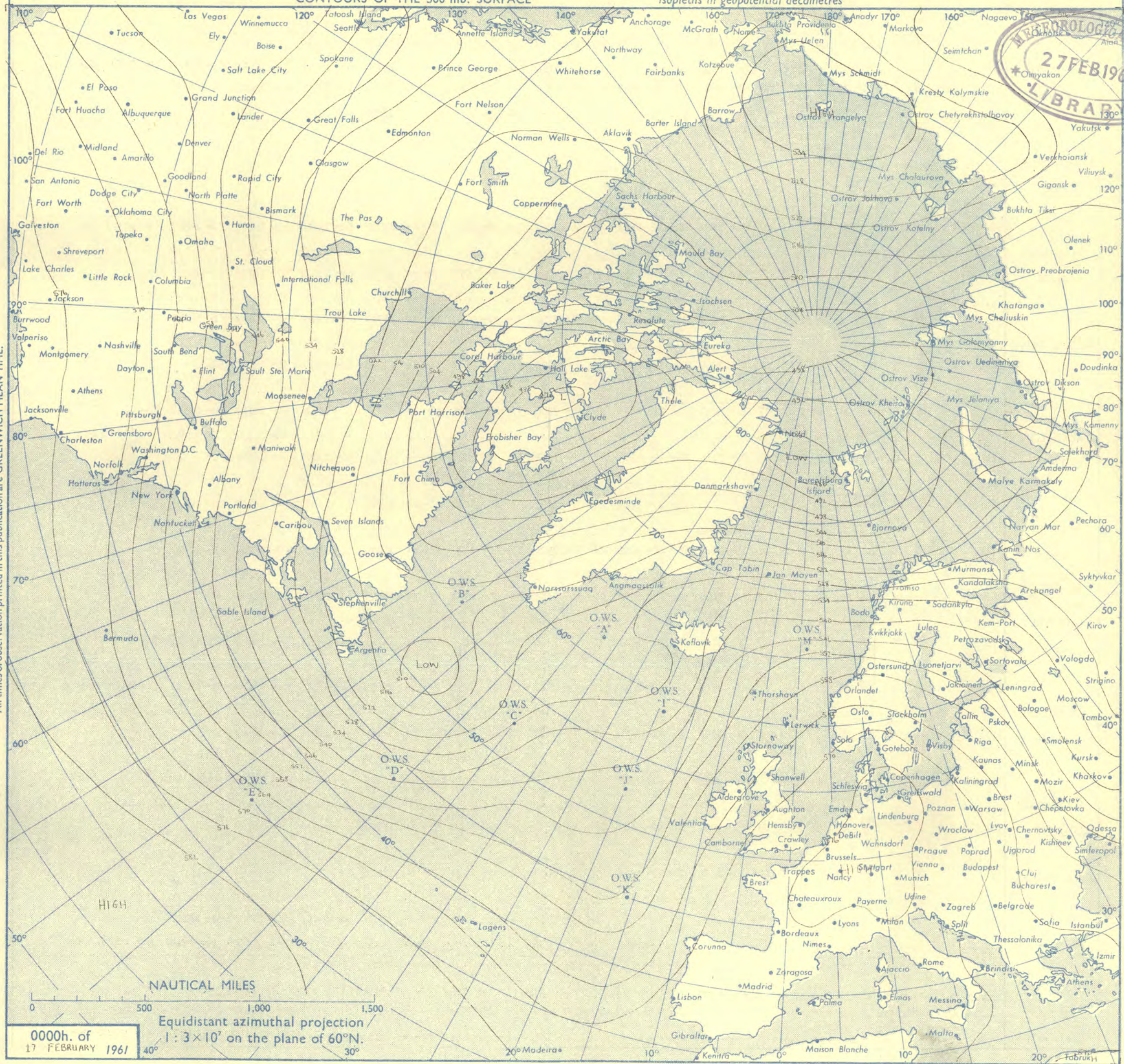
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



NAUTICAL MILES

Equidistant azimuthal projection
 $1:3 \times 10^7$ on the plane of 60°N .

0000h. of
 17 FEBRUARY 1961

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb		150mb		100mb		70mb		50mb		30mb	
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C		
LERWICK 03005	161330	082	05	05	163	06	04	1498	06	05	3060	04	12	5634	20	33	7244	33	45	9214	46	++	11795	66	13516	63	16023	62	18232	62	20312	63		
	171127	082	08	05	150	08	05	1482	03	01	3042	04	13	5587	23	26	7188	35	40	9123	51	++	11630	67	13402	63	15929	63						
STORNOWAY 03026	162330	No ascent made																																
	171130	No ascent made																																
SHANWELL 03170	162330	005	08	04	219	07	04	1547	07	16	3109	04	26	5663	24	35	7257	34	49	9202	50	++	11762	62	13548	60	16086	59	18307	61	20397	61		
	171130	005	09	05	207	06	03	1538	07	06	3094	05	19	5652	24	30	7259	33	39	9218	49	++	11763	69	13527	57	16075	58	18313	59				
ALDERGROVE 03917	162330	077	07	05	202	06	04	1533	05	03	3093	04	22	5640	23	31	7242	34	39	9192	49	++	11729	69	13480	61	15999	61	18218	63				
	171130	077	09	07	197	06	03	1521	04	03	3065	06	19	5607	26	33	7190	37	43	9107	54	++	11598	62	13400	58	15962	58						
AUGHTON 03322	162330	056	06	05	239	06	04	1587	07	14	3147	04	21	5699	25	38	7280	37	46	9225	48	++	11795	61	13588	60	16127	59	18354	61				
	171130	056	06	06	231	05	03	1573	07	07	3138	04	20	5701	22	39	7311	32	41	9275	48	++	11832	66	13603	58	16151	60						
HEMSBY 03496	162330	012	05	05	269	05	02	1619	07	12	3176	06	17	5717	24	37	7302	37	45	9232	51	++	11791	60	13588	59	16120	60	18333	62	20413	63		
	171130	012	06	06	252	09	06	1608	08	13	3176	04	20	5729	23	35	7328	35	45	9276	48	++	11840	64	13620	59	16165	61	18392	59				
CRAWLEY 03774	162330	144	05	05	264	06	04	1622	10	12	3190	04	18	5742	24	34	7332	36	45	9272	49	++	11845	60	13652	58	16199	59						
	171236	144	07	07	247	06	03	1596	08	06	3163	04	17	5711	23	34	7306	35	44	9245	49	++	11791	65	13579	59	16106	60	18334	60				
CAMBORNE 03808	162330	088	09	08	230	08	07	1580	07	09	3145	04	17	5713	21	37	7321	33	39	9287	48	++	11855	66	13616	61	16154	59	18381	61	20471	62		
	171130	088	10	08	230	08	06	1573	06	02	3135	03	20	5707	21	37	7321	32	45	9295	46	++	11868	65	13651	57	16219	58						
VALENTIA 03953	162330	014	11	09	173	10	08	1502	05	05	3065	02	27	5640	20	26	7260	31	38	9230	47	++	11790	68	+++++	++	16080	59						
	171200	014	11	10	169	10	09	1503	03	02	3050	06	09	5610	22	24	7230	31	37	9200	47	++	11780	63	+++++	++	16160	55						
Ocean Weather Station 'I' 59°00'N 19°00'W	170000		09	08	049	++	++	1271	02	04	2800	08	17	5320	25	33	6910	38	46	8820	52	++	11400	57										
	171200		08	02	015	08	02	1324	05	07	2854	07	30	5390	26	34	6970	39	45	8880	55	++	11420	57	13260	56	15840	54	18100	60	20190	61		
Ocean Weather Station 'J' 52°30'N 20°00'W	170000		09	06	080	08	06	1390	01	01	2919	07	19	5450	27	40	7020	37	50	8940	52	++	11510	57	13340	55	15930	++						
	171100		10	07	097	08	06	1410	00	06	2949	07	10	5480	25	31	7060	37	44	8980	52	++	11550	55	13390	53	16000	52	18330	52	20490	52		

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 15500	020	010	755	010 05 05 994 07 05 962 05 03 938 09 04 918 09 01- 886 06 04- 861 07 07- 827 ++ 01- 801 ++ 05- 770 ++ 07- 727 ++ 07- 700 ++ 12- 684 ++ 10- 650 ++ 12- 590 13- 19- 575 ++ 23- 529 17- 28- 345 39- 50- 181 71- 163 71- 147 61- 100 62- 045 63-	181	12370	71-
	02 4567+	018	008	756	973 09 04 869 02 01 854 ++ 01 834 04 00 815 03 04- 723 02- 10- 606 14- 19- 502 23- 26- 468 25- 30- 375 39- 44- 214 70- 185 66- 169 60- 150 63- 124 59- 100 63- 071 61-	214	11220	70-
STORNOWAY 03026								
SHANWELL 03170	02 655++	027	026	751	016 08 04 926 01 00 890 ++ 12- 882 09 12- 827 ++ 18- 678 06- 27- 627 11- 24- 592 15- 18- 557 ++ 22- 327 ++ 31- 467 27- 36- 418 32- 46- 395 35- 49- 277 54- 209 64- 140 58- 127 61- 109 57- 100 59- 094 61- 064 59- 056 62- 046 62- Pressures doubtful above 100mb	209	11470	64-
	02 58572	025	025	774	013 07 04 930 01 01- 921 09 03 915 09 00 873 09 04- 779 00 11- 672 07- 21- 641 08- 23- 590 13- 27- 508 23- 30- 482 25- 31- 459 25- 31- 348 40- 46- 277 53- 192 71- 181 68- 173 61- 135 57- 110 61- 100 58- 055 62-	192	12000	71-
ALDERGROVE 03917	01 754++	025	016	747	941 03 02 906 08 00 870 ++ 01- 823 03 08- 792 03 12- 639 09- 27- 530 23- 33- 502 23- 31- 455 27- 32- 364 40- 45- 343 43- 334 43- 224 65- 200 69- 176 69- 171 63- 134 61- 085 61- 080 59- 070 63- 063 61-	200	11729	69-
	04 364++	024	015	796	003 ++ 04 972 04 03 911 01 00 900 ++ 03 887 06 01 882 ++ 00 805 ++ 08- 742 04- 13- 664 ++ 26- 629 10- 24- 577 17- 28- 481 28- 34- 433 32- 38- 382 ++ 46- 305 54- 294 54- 250 66- 245 66- 230 70- 188 58- 169 62- 159 57- 143 60- 134 57- 073 60-	230	10750	70-
AUGHTON 03322	02 00900	030	023	755	997 06 04 990 07 05 951 12 01- 930 12 07- 564 17- 32- 494 ++ 38- 450 31- 39- 366 40- 48- 214 62- 108 59- 063 60-	214	11370	62-
	02 764++	029	021	739	012 ++ 04 992 04 03 931 10 01- 900 10 04- 883 08 07- 878 09 06- 543 18- 35- 492 ++ 39- 419 30- 39- 356 38- 47- 307 48- 203 66- 189 66- 152 58- 080 61-	203	11740	66-
HEMSBY 03496	51 870++	033	032	763	005 03 01 975 12 00 959 14- 05- 913 12 12- 635 ++ 21- 621 13- 24- 579 16- 29- 377 40- 46- 257 60- 104 60- 077 63- 060 61- 047 63-	257	10300	60-
	45 9+0++	031	030	742	017 05 03 002 ++ 06 985 13 05 963 13 01- 839 ++ 13- 790 05 15- 632 10- 24- 548 20- 30- 525 20- 32- 365 40- 50- 227 61- 204 64- 135 57- 090 61- 066 60-	204	11700	64-
CRAWLEY 03774	50 9+0++	033	015	742	006 05 03 980 ++ 07 972 12 06 954 ++ 01- 947 13 02- 861 11 10- 784 04 14- 630 ++ 22- 522 22- 33- 484 25- 35- 390 38- 48- 252 57- 208 61- 155 57- 089 61- 073 60-	208	11600	61-
	42 860++	030	013	739	009 ++ 05 997 06 03 978 10 06 932 12 02 841 ++ 07- 724 01- 15- 587 16- 27- 431 30- 39- 371 ++ 49- 342 44- 296 50- 226 63- 197 66- 162 58- 116 61- 089 58- 060 63-	197	11880	66-
CAMBORNE 03808	50 864++	028	017	744	987 07 06 961 13 04 952 ++ 00 910 ++ 07- 795 04 14- 673 07- 19- 648 ++ 25- 599 12- 29- 502 21- 37- 388 34- 40- 346 40- 45- 200 66- 180 67- 162 61- 108 59- 048 62-	200	11860	66-
	02 664++	028	017	740	963 06 04 934 12 06 929 ++ 04 887 ++ 03 800 03 09- 734 00 17- 500 21- 37- 413 30- 44- 348 39- 50- 295 47- 268 53- 245 56- 221 62- 200 65- 152 57- 124 58- 111 55- 101 58- 085 58-	200	11870	65-
VALENTIA 03953	02 864++	021	019	727	928 05 03 879 03 03- 847 06 04- 774 01 10- 740 01 19- 562 16- 30- 491 20- 26- 250 58- 192 70- 132 55- 103 59- 076 61-	192	12100	70-
	61 863++	021	019	800	985 09 08 928 07 06 838 02 01 713 05 07 695 05- 10- 659 07- 15- 550 16- 20- 504 22- 24- 418 29- 35- 299 47- 218 60- 194 63- 171 57- 153 59- 133 56- 116 56- 105 55- 093 56-	194	12000	63-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 754++	994	994	876	981 ++ 04 917 ++ 02 892 01 00 815 04- 05- 781 03- 10- 714 07- 16- 540 22- 30- 483 27- 35- 387 40- 47- 319 50- 258 57- 181 56-	258	09800	57-
	02 785++	002	002	913	955 03 02- 846 05- 07- 840 ++ 06- 833 03- 10- 826 ++ 18- 809 03- 22- 743 ++ 31- 661 10- 33- 640 ++ 33- 604 15- 27- 554 ++ 27- 473 ++ 38- 390 40- 46- 282 58- 257 61- 243 60- 226 61- 198 56- 166 55- 115 56- 104 53- 096 56- 062 60- 046 61-	257	09900	61-
Ocean Weather Station 'J' 52°30'N 20°00'W	00904	009	009	880	955 04 04 870 01- 01- 740 07- 15- 725 06- 17- 670 10- 23- 600 16- ++ 570 18- 31- 440 32- 45- 384 40- 52- 290 54- 263 58- 190 57- 168 57- 162 55- 115 54- 110 54-	262	09800	58-
	2155+	011	011	850	950 04 03 770 04- 06- 384 40- 46- 254 59- 188 53- 049 52-	254	11100	59-

STATION*	YYGGgg	Type	Surface	1000mb	900m	850mb	750mb	700mb	600mb	500mb	400mb	300mb	250mb	200mb	150mb	100mb	70mb	50mb	30mb	20mb	10mb
LERWICK 03005	162330	T	180 08	+++ ++	220 28	230 24	240 36	240 34	240 34	220 36	230 27	200 24	190 24	210 26	250 37	250 40	270 48	260 40			
	170530	P	230 13	+++ ++	220 23	230 27	220 32	240 37	240 39	240 32	240 34	240 30	250 29	240 34	250 48						
	171127	T	200 15	+++ ++	230 27	240 37	230 40	230 44	230 50	230 48	230 53	240 49	230 49	240 57	230 46	250 50					
	171730	P	230 20	+++ ++	230 30	230 35	230 41	230 49	230 57	230 56	230 60	230 74	230 78	240 58	230 38	240 50					
STORNOWAY 03026	162330		No winds reported																		
	170530		No winds reported																		
	171130		No winds reported																		
	171730	P	200 22	+++ ++	230 34	240 30	230 33	230 42	220 50	220 58	220 68	210 84	220 81	220 61	240 51	250 42					
SHANWELL 03170	162330	T	240 15	+++ ++	220 29	210 31	230 36	240 32	240 23	220 15	170 03	340 14	340 13	230 14	250 30	240 26	250 20	280 31	270 37		
	170530	P	240 06	+++ ++	220 39	230 43	220 42	210 43	220 41	240 34	260 13	290 16	270 27	250 28	240 30	250 35	240 28	260 34			
	171130	T	220 12	240 22	230 32	210 41	220 46	220 49	210 37	220 36	230 33	230 31	240 30	240 40	230 33	250 34	260 28				
	171730	P	220 10	+++ ++	230 29	220 31	210 35	210 40	210 34	220 39	220 44	210 40	210 46	230 50	240 39	240 32	250 29				
ALDERGROVE 03917	162330	T	160 12	+++ ++	200 37	210 40	210 40	210 40	210 40	210 30	230 22	250 22	240 20	240 21	220 23	240 31	240 32				
	170530	P	180 16	+++ ++	200 32	210 39	210 47	210 42	200 38	210 42	210 28	220 33	220 40	220 44	220 35	240 34	230 24	260 25			
	171130	T	160 14	+++ ++	210 32	210 40	210 35	200 38	200 37	210 47	210 50	210 57	210 54	210 58	210 34	230 31	230 27	250 23			
	171730	P	160 14	+++ ++	210 30	220 27	200 33	200 45	210 44	200 54	200 46	200 60	200 62	200 59	220 42	230 30					
AUGHTON 03322	162330	T	150 12	+++ ++	220 24	210 27	210 24	210 21	230 16	240 21	270 17	310 40	310 36	290 17	230 23	240 19	240 14				
	170530	P	170 10	+++ ++	200 20	200 24	200 28	210 34	200 27	210 26	260 16	280 19	270 24	250 22	220 23	240 21	260 22				
	171130	T	170 11	+++ ++	210 22	200 22	200 28	200 30	210 31	200 25	220 19	210 19	220 18	230 30	230 27	230 28					
	171730	P	210 05	+++ ++	230 14	230 22	220 23	210 30	200 33	200 27	190 23	200 25	200 27	210 34	220 28	240 35	240 16	270 22			
HEMSBY 03496	162330	T	170 08	180 15	200 18	210 21	220 28	230 30	220 27	210 29	200 38	190 47	190 41	210 19	260 13	270 19	250 21				
	170530	P	170 08	+++ ++	180 20	180 22	180 23	180 19	210 20	220 17	210 33	210 33	300 21	260 19	230 21	260 15	260 17	270 17			
	171130	T	170 06	190 17	190 20	190 23	190 20	190 19	190 20	190 18	210 30	080 07	010 13	310 05	230 18	250 16					
	171730	P	200 06	+++ ++	190 16	200 15	200 21	200 20	190 19	200 20	210 30	200 17	100 15	230 06	240 19	240 20	260 16	280 18			
CRAWLEY 03774	162330	T	000 00	+++ ++	170 19	170 20	160 18	170 16	210 22	210 21	210 26	330 15	320 23	280 12	230 15	260 15					
	170530	P	000 00	+++ ++	180 19	170 22	170 24	170 20	190 21	190 12	200 22	020 20	340 20	320 08	230 16	250 11	260 12	260 11			
	171130	P	000 00	+++ ++	190 21	190 25	190 24	190 23	190 22	170 17	200 25	090 10	050 21	120 08	240 15	230 16	260 15	270 13	290 15	280 23	290 35
	171730	P	000 00	+++ ++	230 12	220 13	200 14	190 17	180 22	200 21	200 24	190 14	090 08	190 05	240 22	230 20					
CAMBORNE 03808	162330	T	150 18	+++ ++	180 21	170 25	180 28	190 27	180 22	190 18	230 10	250 16	250 17	230 13	220 19	210 22	220 14				
	170530	P	160 10	+++ ++	180 24	190 23	190 24	190 23	190 26	190 16	180 18	220 13	220 17	210 23	210 23						
	171130	T	180 11	+++ ++	220 22	220 22	200 28	200 27	190 23	180 20	200 18	190 21	200 19	200 24	210 29	200 23					
	171730	P	180 10	+++ ++	210 16	200 23	220 24	220 29	210 26	230 16	220 23	210 25	190 26	200 30	220 26						
VALENTIA 03953	162330	P	170 17	170 26	+++ ++	190 47	+++ ++	200 43	+++ ++	200 46	190 40	200 40	200 48	210 56							
	171200	T	180 15	180 23	+++ ++	190 33	+++ ++	210 38	+++ ++	190 59	190 61	200 73									
Ocean Weather Station 'I' 59°00'N 19°00'W	170000	T	200 30	+++ ++	210 40	210 42	210 42	210 42	210 39	220 41	220 44	210 48	200 58	210 57							
	170600	P	225 40	+++ ++	230 43	230 40	230 36	230 32	240 29	240 33	250 39	240 44	240 41	230 44	190 52	230 41	230 42				
	171200	T	220 33	+++ ++	210 33	210 33	220 34	220 34	210 38	210 42	200 45	190 47	210 52	210 50	220 43	210 44	220 43	240 50			
	171800	P	180 30	+++ ++	190 40	200 40	200 39	200 36	200 39	190 46	190 64	200 75	190 64	190 55	190 36	210 45					
Ocean Weather Station 'J' 52°30'N 20°00'W	170000	T	240 18	240 18	+++ ++	230 27	+++ ++	220 28	220 36	220 22	210 18	210 28	+++ ++	200 47	190 32						
	170500	P	210 15	+++ ++	+++ ++	220 23	+++ ++	210 27	190 18	210 15	240 27	260 35	+++ ++	230 38	200 41	190 31	110 16				
	171100	T	200 24	+++ ++	+++ ++	210 35	+++ ++	230 36	+++ ++	210 51	200 62	210 65	+++ ++	210 47	210 37	210 27					
	171700	P	250 20	+++ ++	+++ ++	230 33	+++ ++	230 33	220 39	190 61	180 73	170 81	+++ ++	210 30							
LARKHILL 03743	170730	P	120 02	+++ ++	180 12	180 20	180 20	180 21	180 17	180 14	120 03	010 04	310 10	220 07	220 20	220 17	250 10				
	171125	P	140 05	+++ ++	200 12	200 18	200 14	200 14	200 14	190 19	100 05	130 08	030 04	200 19	230 16	220 18					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE		SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf. 0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
171218	52.0°N 24.5°W	006 999	872	061 09 02	052	06 04	914 02 01-	1372 01- 07-	1850 05- 22-	08- 23-	2886 12- 42-	16- 48-	4048 21- 48-	27- 43-	5358 33- 43-
Cloud :— 3/8Cu. 2000 to 4500ft; 1/8Cu. 2000 to 6000ft; 2/8Sc. 7000 to 8000ft;															
Inversion Levels :—								Isothermal Levels :—							
YYGGgg	POSITION	PRESSURE		SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf. 0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
171342	49.3°N 19.8°W	014 007	850	061 10 05	116	07 05-	981 03 04-	1439 00 05-	1923 03- 09-	07- 11-	2966 11- 11-	13- 13-	4139 15- 15-	21- 21-	5483 26- 26-
Cloud :— 8/8As. 11000ft. to T.N.R.															
Inversion Levels :— 960 to 950mb 6½° to 7½°C.								Isothermal Levels :—							
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For special arrangements for supply to schools and colleges see Form 2452.												Meteorological Office, Air Ministry, Kingsway, London, W.C.2			

STATION		MAX. WIND
LERWICK 03005	080mb 240 39 16800m 230 39 12250/0	230 79 10800m
STORNOWAY 03026	16600m 260 38 11880/1	210 85 09670m
SHANWELL 03170	05820/1 060mb 260 29 20100m 250 22	
ALDERGROVE 03917	15950/1 17300m 230 29 12350/4	210 64 09500m 200 68 10550m
AUGHTON 03322	083mb 240 20 13050/1	
HEMSBY 03496	051mb 290 15 09760/2 317mb 210 11 072mb 260 15 08550/6 11940/3	
CRAWLEY 03774	340mb 210 22 075mb 260 13 22200m 290 14 08420/8 12410/5 28800m 310 34 33000m 280 45 08620/5 09070/5 12090/2 12490/2 17700m 270 19 09830/5	
CAMBORNE 03808	052mb 220 13 15000m 220 28 089mb 200 19	
VALENTIA 03953	928mb 170 34 740mb 200 43 562mb 200 49 192mb 210 56 928mb 200 32 695mb 210 39 218mb 200 77	200 77 11290m
Ocean Weather Station 'I' 59°00'N 19°00'W	188mb 210 56 12900m 210 46 14700m 210 44 18900m 230 38 13100/0 06600m 190 54 12900m 190 45 16200m 210 46 06900/0 10410/1	210 66 09600m 190 66 13440m 200 90 08460m
Ocean Weather Station 'J' 52°30'N 20°00'W	740mb 200 41 190mb 190 49 115mb 200 43 900mb 220 21 800mb 210 23 078mb 110 17 052mb 160 13 318mb 210 68 900mb 230 35 800mb 230 36 330mb 170 94	210 68 08600m
LARKHILL 03743	19300m 270 11 05770/1 12230/0 05770/5 12130/0	

NOTES ON THE AEROLOGICAL SITUATION

The main low vortex continues to lie over Baffin Island but a secondary centre has formed in the trough east of Newfoundland. The trough over the east Atlantic has continued to relax. The axis of the ridge has moved northeast to the Norwegian Sea and southwesterly winds have strengthened over the British Isles. The main high centre continues to lie over central Europe, whilst a cut-off low has formed over Russia.

AVERAGE AND EXTREME VALUES 1951-55
FEBRUARY

LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temp. Max.	Extreme Temp. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...
60	18945	-60.1	-46	-71	309 24	26
100	15745	-58.1	-46	-69	304 17	25
150	13175	-55.3	-42	-72	311 18	28
200	11350	-56.7	-42	-70	318 20	35
300	8770	-52.7	-43	-61	322 21	46
400	6870	-41.4	-31	-56	315 17	42
500	5320	-30.1	-19	-43	308 13	35
700	2845	-13.7	-2	-23	292 7	26
850	1345	-5.7	4	-13	257 4	25

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	267	-60.4	9960
Max.	422	-43	12955
Min.	160	-75	6250

LARKHILL/CRAWLEY† at 03, 15h.
(Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)

Press. Level	Average Height	Average Temp.	Extreme Temp. Max.	Extreme Temp. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...
60	19050	-60.1	-52	-73	308 18	25
100	15855	-58.1	-47	-71	307 20	28
150	13285	-55.5	-44	-70	310 25	34
200	11455	-56.9	-43	-72	313 27	41
300	8875	-52.2	-43	-61	315 28	52
400	6965	-39.9	-28	-54	309 23	44
500	5405	-28.2	-17	-41	306 18	35
700	2910	-11.2	2	-22	304 12	25
850	1395	-3.4	6	-15	302 8	22

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	264	-59.7	9835
Max.	456	-42	14355
Min.	126	-76	5850

MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.

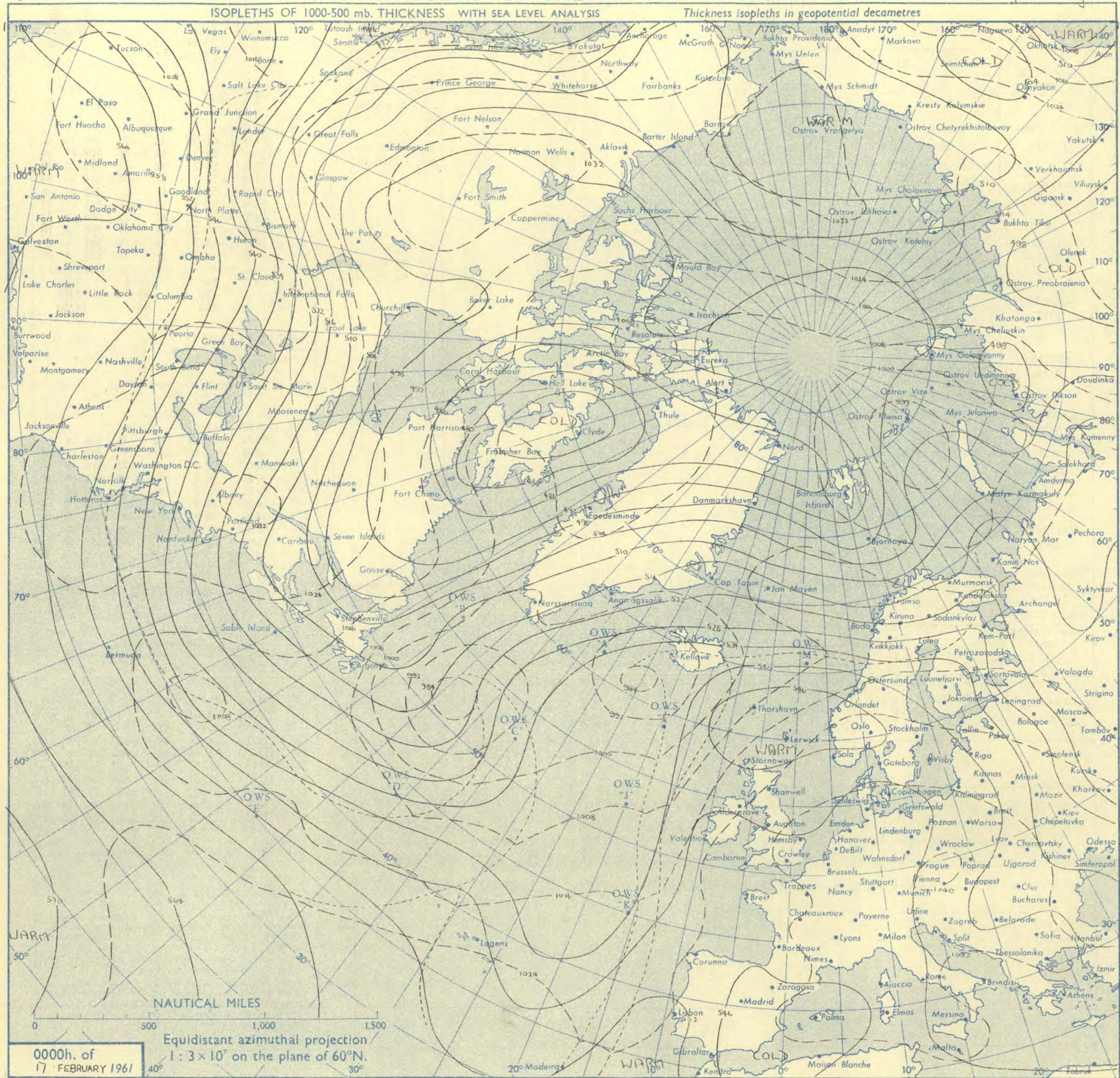
Press. Level	Average Height	Average Temp.	Extreme Temp. Max.	Extreme Temp. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	(15)
60	19250	-64.4	-59	-73	270 28	31
100	16115	-62.3	-55	-69	270 49	52
150	13575	-56.8	-47	-66	270 66	69
200	11740	-55.7	-43	-68	270 71	77
300	9125	-47.2	-37	-56	270 58	71
400	7165	-33.6	-26	-46	270 45	56
500	5565	-22.0	-13	-33	270 36	45
700	3005	-5.0	6	-13	275 23	30
850	1455	3.7	21	-3	275 17	24

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	98	-63.6	...	72	...	-73
Lower	230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

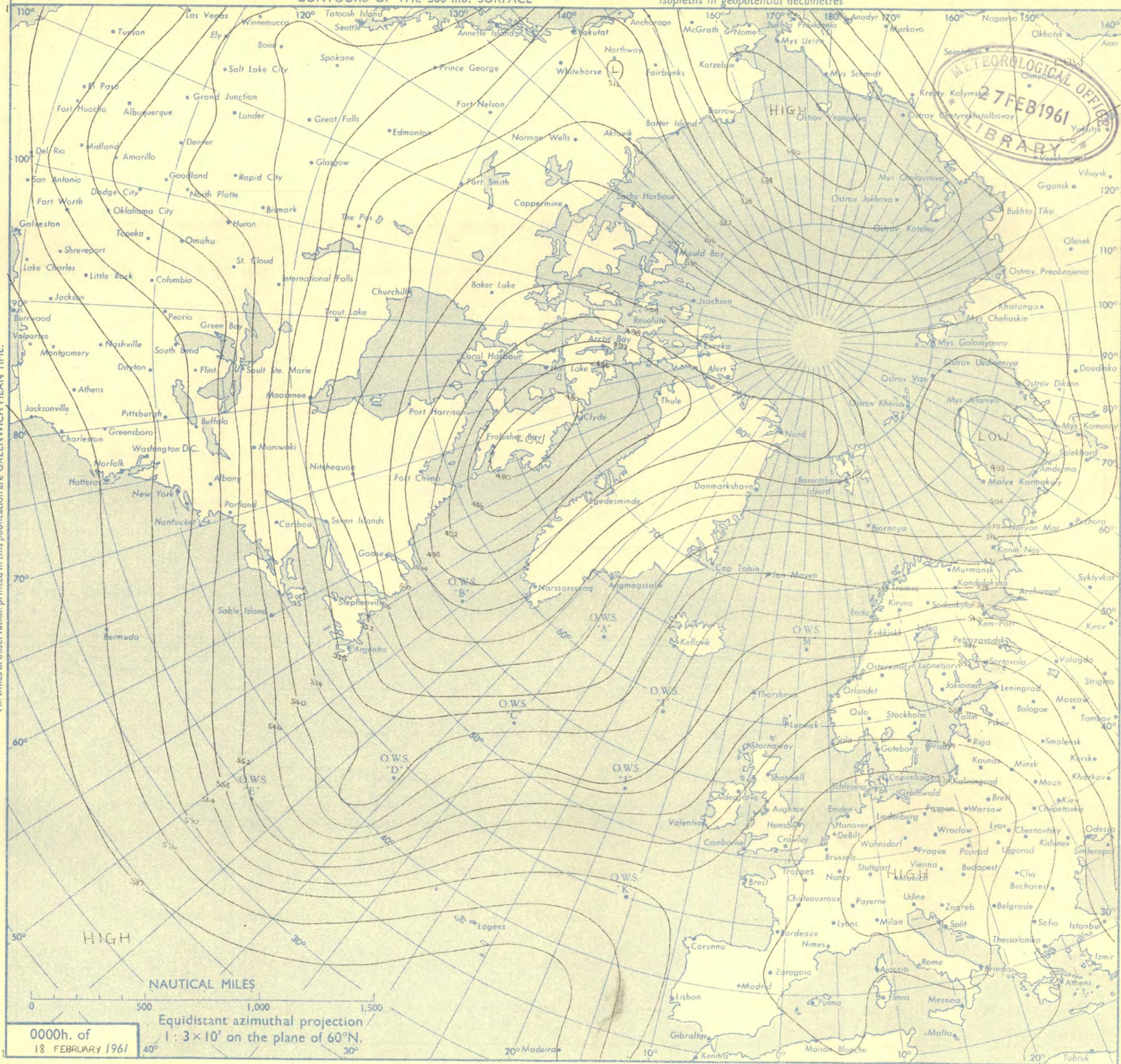
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



NAUTICAL MILES

Equidistant azimuthal projection
 1 : 3 x 10⁷ on the plane of 60°N.

0000h. of
 18 FEBRUARY 1961

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C						
LERWICK 03005	180028	082	08	08	148	08	06	1476	01	02-	3018	07-	12-	5561	23-	29-	7155	36-	42-	9097	51-	++	11630	65-	13410	60-	15951	60-	18176	62-	20251	63-								
	181130	082	08	07	144	08	07	1464	01-	04-	2987	10-	15-	5512	25-	34-	7091	38-	42-	9004	53-	++	11557	57-	13377	58-	15925	61-	18136	62-										
STORNOWAY 03026	172343	013	08	08	144	07	05	1466	00	05-	3001	08-	13-	5527	26-	30-	7100	39-	45-	9025	50-	++	11572	63-																
	181155	013	10	08	154	08	05	1472	01-	05-	2993	10-	15-	5502	27-	33-	7094	33-	46-	9055	48-	++	11650	60-	13450	57-	15995	59-	18219	61-	20290	65-	23417	65-						
SHANWELL 03170	172330	005	09	06	189	08	05	1518	03	00	3066	06-	17-	5620	23-	33-	7220	34-	39-	9175	49-	++	11720	66-	13514	57-	16086	58-	18322	59-	20423	62-	23593	63-						
	181130	005	11	07	184	10	06	1508	01	04-	3038	09-	16-	5558	27-	38-	7134	38-	47-	9069	48-	++	11696	53-	13534	56-	16110	56-	18368	58-	20477	60-	23664	59-						
ALDERGROVE 03917	172330	077	10	08	182	09	07	1511	01	01-	3041	08-	18-	5582	23-	40-	7175	36-	++	9110	51-	++	11646	62-	13444	59-	15994	58-	18240	60-										
	181140	077	09	06	221	08	05	1538	01-	03-	3054	11-	15-	5585	23-	37-	7181	35-	48-	9118	52-	++	11651	62-	13455	57-	16013	60-												
AUGHTON 03322	172330	056	06	06	224	09	05	1558	05	00	3110	06-	15-	5662	22-	33-	7268	33-	43-	9223	49-	++	11776	64-	13571	58-	16130	57-												
	181130	056	10	06	244	08	04	1563	01-	03-	3088	08-	23-	5614	24-	45-	7209	34-	++	9173	46-	++	11810	57-	13648	54-	16237	54-	18510	55-	20639	58-								
HEMSBY 03496	172330	012	06	06	235	09	07	1584	07	08-	3144	04-	19-	5702	21-	33-	7307	34-	46-	9252	50-	++	11819	62-	13608	59-	16152	59-	18378	60-	20482	60-								
	181130	012	06	06	247	04	01	1576	05	08-	3124	08-	17-	5658	24-	40-	7253	33-	47-	9203	50-	++	11755	61-	13359	59-	16100	60-	18328	60-										
CRAWLEY 03774	172330	144	03	03	243	09	07	1589	06	05-	3147	05-	18-	5700	23-	35-	7298	35-	47-	9236	49-	++	11802	61-	13602	59-	16140	59-	18364	60-	20457	61-	23628	62-						
	181130	144	07	07	274	06	04	1597	04	00	3150	06-	16-	5691	24-	35-	7285	33-	43-	9240	50-	++	11807	61-	13614	58-	16171	58-	18413	58-	20524	60-	23731	60-						
CAMBORNE 03808	180035	088	09	09	237	08	06	1566	03	01	3114	07-	15-	5654	25-	30-	7244	35-	39-	9186	50-	++	11720	65-	13510	61-	16052	59-												
	181130	088	11	09	287	09	07	1616	04	10-	3163	05-	17-	5732	22-	33-	7332	34-	43-	9282	50-	++	11828	63-																
VALENTIA 03953	172330	014	10	08	188	09	07	1509	01-	03-	3034	08-	29-	5570	24-	26-	7160	37-	39-	9090	51-	++	11670	57-	+++++	++	16060	57-												
	181130	014	12	10	252	09	08	1579	03	01-	3127	05-	07-	5710	20-	26-	7320	32-	38-	9290	48-	++	11850	66-	+++++	++	16160	57-												
Ocean Weather Station 'I' 59°00'N 19°00'W	180000		08	06	012	08	06	1331	01-	08-	2850	11-	18-	5340	31-	38-	6880	42-	++	8770	56-	++	11370	53-																
	181200		08	05	051	08	05	1360	03-	08-	2881	09-	33-	5410	25-	31-	7000	36-	40-	8930	51-	++	11490	61-	13290	57-	15850	58-	18100	58-										
Ocean Weather Station 'J' 52°30'N 20°00'W	180000		09	06	134	08	04	1450	00	02-	2974	10-	12-	5470	28-	38-	7050	36-	47-	8980	50-	++	11560	55-	13390	55-	15970	56-	18230	++										
	181200		11	09	148	09	07	1480	03	01-	3035	04-	06-	5610	20-	24-	7230	32-	38-	9200	47-	++	11780	63-																

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 564++	018 008 799	004 08 06 845 01 02-- 812 01 04-- 565 ++ 21-- 446 29-- 35-- 397 36-- 42-- 370 38-- 44-- 288 54-- 214 66-- 125 58--	100 60-- 050 63--		214	11220	66--
	02 35632	017 008 868	954 ++ 00 895 ++ 00 815 03-- 06-- 790 04-- 10-- 719 ++ 13-- 698 ++ 17-- 652 14-- 17-- 615 14-- 25-- 580 ++ 32-- 443	++ 36-- 388 40-- 44-- 271 58-- 253 60-- 154 57-- 114 60-- 100 61-- 060 62--		253 114	10070 15100	60-- 60--
STORNOWAY 03026	02 854++	018 016 841	009 ++ 06 883 ++ 00 854 ++ 04-- 816 ++ 03-- 780 04-- 08-- 734 ++ 14-- 728 06-- 14-- 688 ++ 13-- 650 12-- 18-- 598	++ 19-- 499 26-- 30-- 444 ++ 41-- 395 40-- 46-- 378 43-- 312 48-- 267 57-- 224 63-- 160 59--		224	10900	63--
	01 58501	019 017 872	008 09 06 907 02 01 819 ++ 07-- 782 ++ 08-- 722 ++ 12-- 690 11-- 17-- 656 ++ 17-- 520 ++ 30-- 490 28-- 36-- 468	28-- 39-- 438 29-- 42-- 370 37-- 50-- 287 50-- 202 60-- 172 61-- 150 57-- 124 60-- 092 58-- 050 65-- 040 63-- 030 65--		202	11580	60--
SHANWELL 03170	02 855++	023 023 768	023 09 06 950 05 03 909 07 05 881 05 01 823 00 03-- 798 02 11-- 763 ++ 17-- 658 10-- 19-- 603 13-- 25-- 588 13--	26-- 552 ++ 25-- 536 ++ 29-- 478 25-- 36-- 422 ++ 37-- 350 40-- 46-- 301 49-- 213 66-- 192 65-- 172 58-- 108 56-- 072		213	11340	66--
	02 5853+	022 022 838	022 11 07 964 06 04 880 ++ 00 840 ++ 07-- 808 ++ 11-- 651 12-- 19-- 601 17-- 22-- 555 20-- 30-- 502 ++ 37-- 460	++ 39-- 382 40-- 49-- 308 48-- 236 54-- 100 56-- 047 59-- 040 62-- 030 59--		236 040	10640 21869	54-- 62--
ALDERGROVE 03917	02 464++	022 013 841	917 ++ 03 884 03 00 810 ++ 03-- 785 04-- 05-- 771 ++ 05-- 755 04-- 08-- 732 ++ 15-- 626 14-- 26-- 555 17-- 33-- 390	38-- ++ 301 50-- 266 58-- 228 63-- 128 58-- 079 58-- 063 61-- 057 60--		228	10840	63--
	01 58500	027 018 882	867 01-- 03-- 829 02-- 05-- 803 ++ 06-- 765 ++ 12-- 725 ++ 14-- 705 11-- 15-- 678 ++ 16-- 638 14-- 25-- 613 13-- 25--	462 27-- 40-- 249 61-- 222 65-- 192 59-- 132 56-- 077 61--		222	11010	65--
AUGHTON 03322	02 00900	027 021 782	007 09 05 961 06 03 902 07 02 867 06 01 814 ++ 05-- 756 02-- 07-- 727 04-- 12-- 563 16-- 28-- 417 30-- 41-- 353	40-- 48-- 208 66-- 179 59-- 086 58--		208	11520	66--
	02 5857+	030 023 864	858 ++ 02-- 793 04-- 06-- 779 04-- 06-- 758 ++ 10-- 732 ++ 11-- 716 08-- 13-- 702 ++ 21-- 689 09-- 25-- 623 15-- 26--	553 ++ 32-- 525 22-- 41-- 349 40-- ++ 318 45-- 201 57-- 179 54-- 111 55-- 043 57--		201	11780	57--
HEMSBY 03496	45 9+0++	029 027 754	017 05 04 986 11 07 931 ++ 01-- 855 08 08-- 562 18-- 29-- 541 16-- 28-- 368 39-- 50-- 331 45-- 229 60-- 198 62-- 102	59-- 052 60-- 046 58--		229	11000	60--
	10 862++	031 029 779	019 05 03 966 03 01-- 942 08 03 868 05 06-- 840 06 08-- 824 ++ 12-- 715 06-- 16-- 682 ++ 17-- 664 ++ 22-- 621	14-- 23-- 610 ++ 27-- 529 ++ 37-- 419 32-- 47-- 403 33-- 47-- 361 39-- 50-- 253 58-- 222 63-- 184 57-- 103 61-- 064 60--		222	11100	63--
CRAWLEY 03774	45 9+0++	030 012 761	997 11 09 923 ++ 01-- 919 10 01-- 698 05-- 18-- 617 13-- 23-- 567 15-- 28-- 373 ++ 50-- 334 46-- 306 48-- 263 56--	209 62-- 172 59-- 099 59-- 030 62-- Pressure suspect above 070 mb.		209	11520	62--
	02 862++	034 016 772	999 06 04 977 06 04 950 ++ 03 884 02 01 860 ++ 01 827 04 07-- 662 ++ 20-- 630 13-- 19-- 590 ++ 29-- 533 ++	36-- 515 ++ 34-- 425 32-- 42-- 414 31-- 41-- 364 39-- 48-- 260 56-- 208 62-- 178 58-- 030 60--		208	11560	62--
CAMBORNE 03808	02 864++	029 018 783	001 08 06 977 07 05 956 07 05 882 03 02 852 03 02 836 03 01-- 826 ++ 03-- 806 ++ 02-- 782 00 09-- 736 ++	14-- 703 ++ 14-- 655 11-- 18-- 613 ++ 20-- 598 ++ 27-- 571 17-- 24-- 477 27-- 31-- 366 40-- 45-- 233 64-- 200 65-- 179		233	10780	64--
	03 58500	035 024 789	924 04 03 857 04 10-- 755 ++ 10-- 715 05-- 15-- 681 04-- 18-- 645 ++ 25-- 572 15-- 27-- 445 29-- 38-- 385 36-- 46--	273 55-- 238 60-- 221 65-- 203 62-- 187 65-- 172 61-- 153 59--		221	11210	65--
VALENTIA 03953	80 734++	023 021 860	987 08 06 812 03-- 09-- 798 03-- 12-- 718 08-- 27-- 706 08-- 28-- 675 10-- 30-- 634 12-- 18-- 616 13-- 16-- 489 25-- 27--	421 35-- 37-- 253 57-- 191 57-- 170 54-- 157 57-- 094 57-- 083 55-- 060 58--		258 157	10200 13200	57-- 57--
	02 784++	031 029 815	964 07 06 870 03 01 856 03 00 815 00 02-- 769 01-- 05-- 626 09-- 13-- 533 16-- 23-- 281 51-- 212 65-- 180 69-- 164	60-- 097 57-- 071 55-- 047 60--		180	12500	69--
Ocean Weather Station 'I' 59°00'N 19°00'W	02 555++	001 001 869	978 ++ 03 928 03 00 876 ++ 08-- 780 ++ 11-- 713 10-- 18-- 694 ++ 19-- 652 ++ 26-- 517 ++ 37-- 477 31-- 36-- 457	36-- 43-- 413 40-- 46-- 350 49-- 306 57-- 275 54-- 193 53--		306	08600	57--
	02 725++	006 006 905	985 06 02 941 ++ 00 920 01 01-- 867 ++ 05-- 853 03-- 07-- 835 ++ 12-- 828 03-- 13-- 777 ++ 25-- 688 10-- 35-- 600	++ 42-- 552 ++ 29-- 519 24-- 30-- 429 32-- 36-- 372 40-- 44-- 272 56-- 233 61-- 189 61-- 172 58-- 151 57-- 065 59--		233	10500	61--
Ocean Weather Station 'J' 52°30'N 20°00'W	01 39500	016 016 850	925 02 01-- 890 01 00 780 05-- 09-- 415 33-- 45-- 379 40-- 50-- 358 43-- 327 47-- 289 53-- 278 55-- 262 56-- 237 59--	217 55-- 082 57--		237	10400	59--
	03 4557+	018 018 762	968 07 05 942 ++ 04 892 ++ 02-- 865 ++ 04-- 846 03 00 835 02 04-- 796 01 00 765 00 03-- 664 06-- 08-- 583 12--	16-- 507 ++ 24-- 421 29-- 35-- 346 40-- 46-- 219 62-- 183 66--		183	12400	66--

STATION*	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	172330	P	220 12	+++ ++	240 20	230 23	230 28	230 33	230 43	230 55	230 55	220 69	230 86	230 53	250 41	240 45					
	180530	P	180 08	+++ ++	230 16	220 20	220 23	230 25	240 23	230 28	230 54	220 70	220 74	240 40	240 40	260 42					
	181130	T	230 13	+++ ++	240 23	230 25	240 27	240 27	220 30	200 28	200 34	210 54	210 60	230 47	250 44	260 43	260 48				
	181730	P	240 18	+++ ++	270 30	260 31	260 25	260 25	250 28	300 59	310 77	320 103	300 76	280 50							
STORNOWAY 03026	172343	T	190 08	+++ ++	220 17	220 22	220 35	220 38	210 43	200 37	190 42	200 58	210 62	210 54	P230 41	240 33	250 34				
	180535	P	190 08	+++ ++	210 28	220 34	220 38	220 40	200 36	200 39	200 45	200 52	200 59	230 45	250 39	240 38					
	181155	T	230 08	+++ ++	250 27	250 29	250 35	250 31	230 35	250 35	300 76	300 102	300 77	P260 37	250 32	250 47	250 39				
	181733	P	210 09	+++ ++	240 29	240 34	260 34	270 44	280 48	280 50	290 56	300 83	300 61	280 70							
SHANWELL 03170	172330	T	220 15	+++ ++	230 25	230 29	210 45	210 43	210 45	210 49	210 52	210 49	210 55	210 58	230 42	240 31	240 31	260 32			
	180530	P	220 17	+++ ++	240 26	230 28	220 27	230 34	220 32	220 37	200 50	210 58	210 69	220 42	240 41	230 29					
	181130	T	240 12	+++ ++	260 25	260 31	260 26	260 26	240 27	210 36	190 52	230 36	260 33	240 33	240 30	260 39	250 31	270 34	P270 38	280 45	
	181730	P	270 14	+++ ++	280 31	280 29	290 28	320 27	310 48	310 54	310 64	310 80	320 63	300 49	310 32						
ALDERGROVE 03917	172330	T	170 14	+++ ++	210 27	220 26	220 31	220 34	220 30	230 29	210 38	200 70	200 74	200 62	220 36	230 32	240 25				
	180530	P	210 14	+++ ++	240 32	240 31	230 30	230 35	210 40	200 41	200 53	200 69	210 52	230 36	240 34	250 29	250 30	260 31			
	181140	T	220 16	+++ ++	260 27	270 28	270 29	270 30	300 55	310 69	320 74	320 85	310 69	290 47	250 39	260 24					
	181730	P	190 08	+++ ++	250 22	280 30	290 33	290 37	290 42	290 33	300 50	300 50	300 59	290 52	280 31	260 31					
AUGHTON 03322	172330	T	160 08	190 15	250 20	240 34	220 29	220 28	220 33	210 26	200 30	210 34	200 37	210 42	220 34	250 27					
	180630	P	160 08	+++ ++	240 26	230 30	230 33	210 44	220 44	210 50	200 47	210 51	210 56	220 41	240 29	240 25	260 23	260 20			
	181130	T	250 08	+++ ++	260 30	270 26	270 33	260 32	250 36	280 46	310 62	310 68	310 74	270 41	250 36	250 20	250 28	270 18			
	181730	P	260 12	+++ ++	280 23	290 26	300 34	310 46	310 51	320 47	320 50	330 68	320 56	310 42	280 23	270 27	260 15	260 19			
HEMSBY 03496	172330	T	240 09	230 14	230 15	220 22	220 17	210 17	210 19	210 25	210 30	210 24	200 24	190 16	230 21	260 23	250 14				
	180530	P	210 10	+++ ++	260 09	270 11	250 19	230 21	240 19	210 28	210 31	220 17	250 20	230 22	240 27	250 21					
	181130	T	250 13	250 20	240 24	220 25	230 30	230 31	230 31	230 31	220 43	220 49	230 47	220 39	250 27	250 25	280 17				
	181730	P	250 08	+++ ++	290 23	300 24	290 22	270 27	280 37	320 58	330 81	320 71	320 70	300 47	270 27	270 22					
CRAWLEY 03774	172330	T	000 00	+++ ++	230 14	230 12	220 13	220 15	230 16	200 24	190 35	210 14	220 10	220 10	210 19	240 18	260 13	P270 16	280 17		
	180540	P	000 00	+++ ++	240 18	240 18	240 13	230 20	220 24	230 24	250 35	240 25	240 26	240 24							
	181110	P	250 02	+++ ++	270 21	240 24	230 29	240 33	240 36	230 39	230 48	220 53	230 48	240 30	240 24	260 22	280 14	270 11	290 14	310 20	290 39
	181730	P	260 03	+++ ++	290 20	300 23	290 27	300 37	320 41	320 48	340 51	350 59	330 52	310 23	280 23						
CAMBORNE 03808	180035	T	180 12	+++ ++	240 22	210 31	210 34	210 36	210 34	200 39	210 37	200 43	200 48	210 40	220 27	230 17					
	180530	P	220 06	+++ ++	260 20	250 21	260 22	240 30	240 32	230 30	210 43	200 66	220 46	250 32	250 24	260 19					
	181130	T	260 14	260 20	270 19	290 23	300 39	300 38	320 38	320 44	330 50	350 59	340 46	320 32	P270 11						
	181730	P	210 03	+++ ++	280 15	300 19	300 27	300 22	290 22	300 23	340 26	340 31	330 26	320 37	290 17	270 17					
VALENTIA 03953	172330	T	210 15	220 24	+++ ++	220 31	+++ ++	230 36	+++ ++	200 45	190 42	200 55	+++ ++	220 47							
	181130	T	230 12	230 19	+++ ++	260 35	+++ ++	270 39	+++ ++	280 42	290 49	300 46	+++ ++	280 53	+++ ++	250 24					
Ocean Weather Station 'I' 59°00'N 19°00'W	180000	T	200 22	+++ ++	210 30	220 31	210 36	200 39	190 43	200 48	190 72	170 70	190 54	220 55							
	180600	P	225 30	+++ ++	230 28	230 32	220 35	220 35	230 35	230 33	240 71	240 141	280 83	250 54	240 45	230 47					
	181200	T	220 25	+++ ++	220 27	230 27	220 30	230 30	240 43	240 57	230 80	260 115	260 120	250 71	240 52	230 51	240 45				
	181800	P	135 30	+++ ++	150 39	180 42	230 51	220 53	220 61	220 72	230 80	230 95	230 106	230 110	230 68						
Ocean Weather Station 'J' 52°30'N 20°00'W	180000	T	210 27	210 30	+++ ++	230 60	+++ ++	230 60	+++ ++	240 67	250 109	300 172									
	180500	T	220 20	+++ ++	+++ ++	240 43	+++ ++	250 57	250 56	260 58	260 68	260 67	+++ ++	270 61	270 43	270 33					
	181200	T	200 22	+++ ++	200 43	220 54	240 50	240 49	250 58	250 56	250 60	250 63	250 72	270 64							
	181800	P	225 30	+++ ++	210 57	210 57	220 62	210 61	210 57	220 58	230 55	230 58	230 63	240 64	220 39						
LARKHILL 03743																					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE			SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf.	0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
181255	54.5°N 28.9°W	996	989	800	061 04 04	030- 05 05		829 05 05	1292 03 03	1783 00 00	04- ++	2838 07- ++	10- ++	4023 15- ++	19- ++	5558 24- ++
Cloud :— 8/8 Sc 500 to 6000 ft. 8/8 AcAs 11000 ft to TNR																
Inversion Levels :— 989 to 941 mb 4°C to 6°C										Isothermal Levels :—						
YYGGgg	POSITION	PRESSURE			SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf.	0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
Cloud :—																
Inversion Levels :—										Isothermal Levels :—						
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-.													Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General			
For special arrangements for supply to schools and colleges see Form 2452.													Meteorological Office, Air Ministry, Kingsway, London, W.C.2			

STATION		MAX. WIND
LERWICK 03005	18000m 260 44 11300/1 11100/1 12900m 270 40 05080/3 05450/0 10030/1	230 91 10650m 220 81 09950m 210 63 10290m 320 108 09000m
STORNOWAY 03026	173mb 220 51 P18800m 240 47 16850m 240 41 09350/0 10850/1 438mb 300 53 P20400m 270 42 10700/1 13100m 270 42 08410/0 10300/1 11270/0 12390/1	210 63 10010m 200 69 10070m 310 106 08250m 300 86 09490m
SHANWELL 03170	032mb 290 40 11200/1 11700/1	210 72 10010m 310 85 09480m
ALDERGROVE 03917	334mb 210 64 061mb 250 24 080mb 250 31 17700m 250 26 12250/1	200 76 10400m 200 71 09000m 320 97 09670m 280 63 11420m
AUGHTON 03322	230mb 300 55 21300m 280 25 10060/1 11730/1 12200/1	310 79 10500m 330 73 09270m
HEMSBY 03496	051mb 270 16 18000m 260 19 05030/0 05790/0 08680/1 10750/1	330 84 08470m
CRAWLEY 03774	P25500m 320 18 13800m 230 26 12000/5 28800m 290 26 33000m 280 42 34800m 270 45 09690/1 11200/1 11770/5	
CAMBORNE 03808	080mb 250 14 16500m 210 14 07970/0 10210/1 10510/1 16250/5 P15000m 260 15 16500m 260 16 12530/1	200 67 08920m 320 66 11400m
VALENTIA 03953	718mb 230 37 616mb 200 44 258mb 190 62 157mb 240 35 769mb 270 34 626mb 270 39 281mb 310 49 164mb 290 35 071mb 240 18 047mb 220 19	190 62 10080m
Ocean Weather Station 'I' 59°00'N 19°00'W	436mb 190 61 08100m 260 100 10200m 280 104 17100m 230 33 07450/2 08650/0 10330/1 10750/1 11200/7 332mb 250 99 228mb 250 98 01800m 210 48 15000m 220 60 11750/1 13520/1 14100/1	170 90 08280m 280 144 09290m 260 122 09790m 230 120 11440m
Ocean Weather Station 'J' 52°30'N 20°00'W	358mb 260 131 327mb 270 128 289mb 300 181 262mb 290 150 900mb 240 37 800mb 250 53 076mb 270 25 12600m 240 54 15000m 240 32 10970/0 11470/1	300 181 09200m 260 78 10960m 230 79 11220m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The low centre near Baffin Island has remained stationary while the trough which extended southwest from it yesterday has swung southeast and relaxed. A new centre has formed in a further trough which has developed over the eastern American seaboard. The trough over the eastern Atlantic has continued to relax and the ridge over Europe has moved east while the main high has remained stationary over eastern France.

AVERAGE AND EXTREME VALUES 1951-55
FEBRUARY

LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...
60	18945	-60.1	-46	-71	309 24	26
100	15745	-58.1	-46	-69	304 17	25
150	13175	-55.3	-42	-72	311 18	28
200	11350	-56.7	-42	-70	318 20	35
300	8770	-52.7	-43	-61	322 21	46
400	6870	-41.4	-31	-56	315 17	42
500	5320	-30.1	-19	-43	308 13	35
700	2845	-13.7	-2	-23	292 7	26
850	1345	-5.7	4	-13	257 4	25
Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)			
Average	267	-60.4	9960			
Max.	422	-43	12955			
Min.	160	-75	6250			

LARKHILL/CRAWLEY† at 03, 15h.
(Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...
60	19050	-60.1	-52	-73	308 18	25
100	15855	-58.1	-47	-71	307 20	28
150	13285	-55.5	-44	-70	310 25	34
200	11455	-56.9	-43	-72	313 27	41
300	8875	-52.2	-43	-61	315 28	52
400	6965	-39.9	-28	-54	309 23	44
500	5405	-28.2	-17	-41	306 18	35
700	2910	-11.2	2	-22	304 12	25
850	1395	-3.4	6	-15	302 8	22
Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)			
Average	264	-59.7	9835			
Max.	456	-42	14355			
Min.	126	-76	5850			

MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	(15)
60	19250	-64.4	-59	-73	270 28	31
100	16115	-62.3	-55	-69	270 49	52
150	13575	-56.8	-47	-66	270 66	69
200	11740	-55.7	-43	-68	270 71	77
300	9125	-47.2	-37	-56	270 58	71
400	7165	-33.6	-26	-46	270 45	56
500	5565	-22.0	-13	-33	270 36	45
700	3005	-5.0	6	-13	275 23	30
850	1455	3.7	21	-3	275 17	24
Tropo- pause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb. 98	°C -63.6	mb. ...	mb. 72	°C ...	°C -73
Lower	230	-58.2	350	...	-52	...

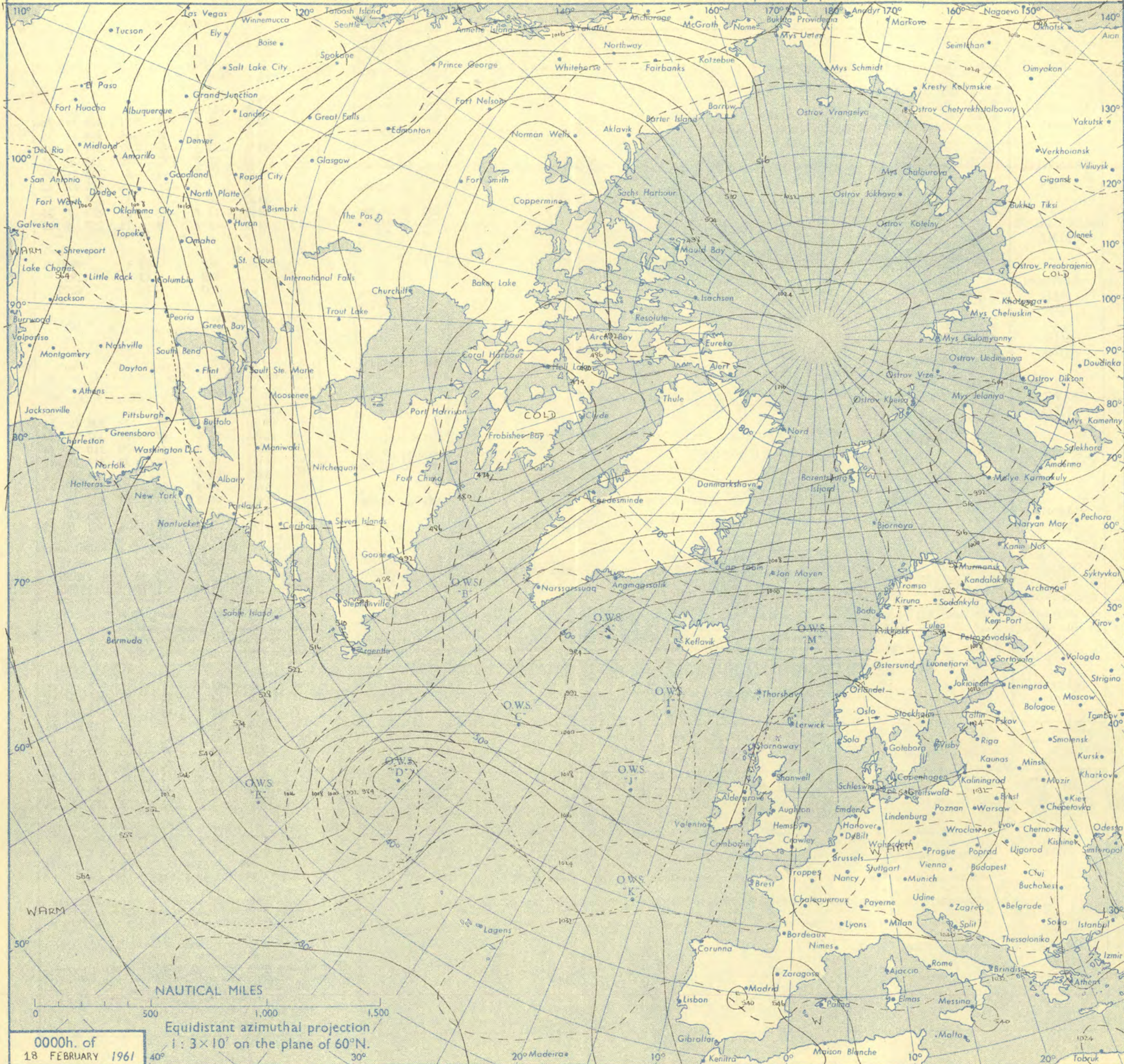
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

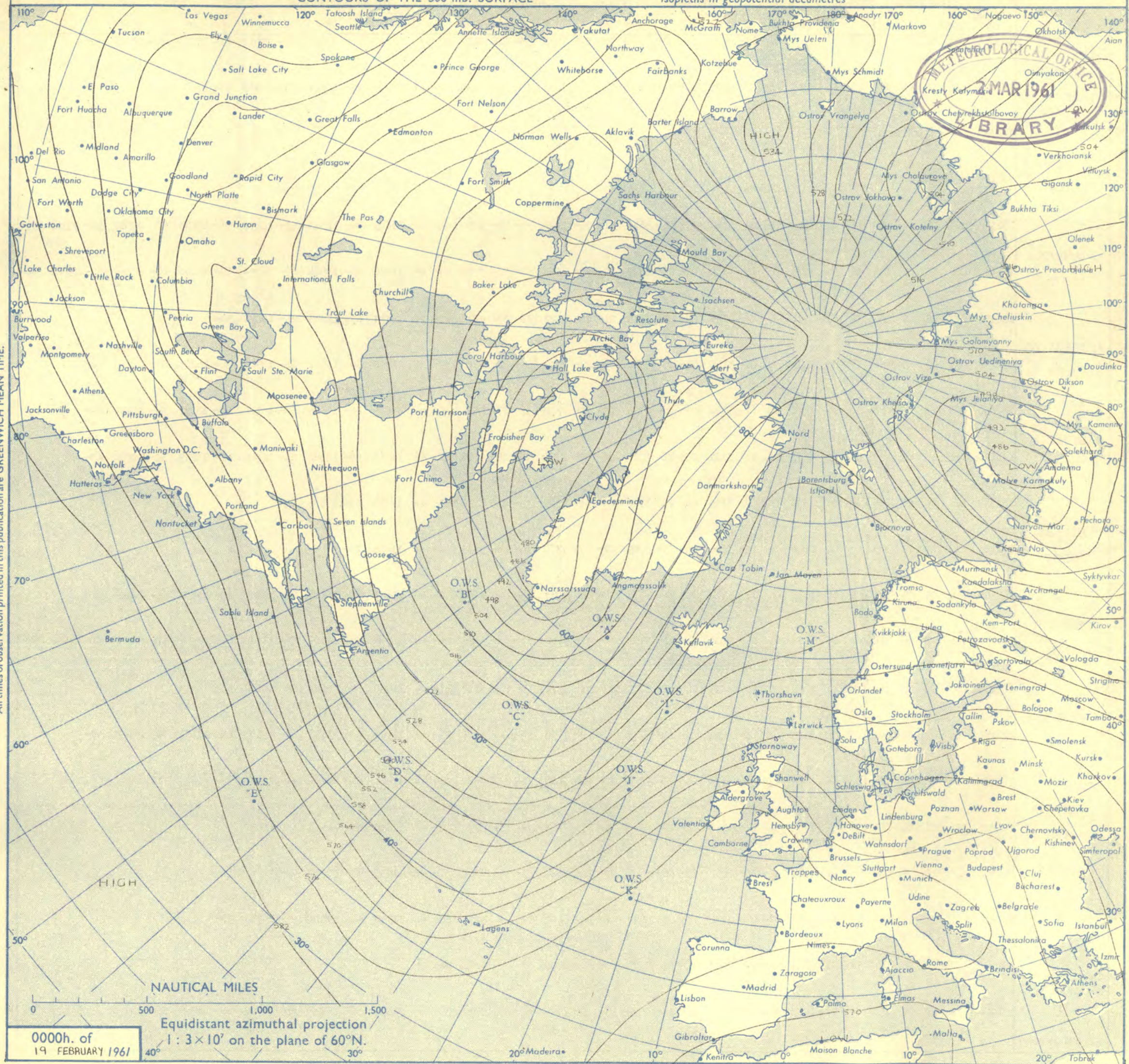
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



NAUTICAL MILES

Equidistant azimuthal projection
1:3 x 10⁷ on the plane of 60°N.

0000h. of
19 FEBRUARY 1961

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C						
LERWICK 03005	182330	082	06	06	185	07	05	1501	01	11	3032	06	40	5591	22	29	7191	35	42	9132	51	++	11657	68	13422	61	15942	61	18167	62	20248	62								
	191128	082	08	06	173	08	05	1508	06	02	3068	04	11	5628	22	25	7233	33	37	9193	48	++	11748	69	13461	63	15968	63												
STORNOWAY 03026	182330	No ascent made																																						
	191130	No ascent made																																						
SHANWELL 03170	182330	005	06	04	240	06	02	1565	02	02	3118	05	08	5680	21	26	7289	33	38	9254	48	++	11805	68	13542	63	16057	61	18285	60	20382	59	23560	59						
	191130	005	10	05	238	08	03	1578	06	15	3139	02	20	5719	21	25	7327	32	36	9294	47	++	11838	69	13544	65	16059	65	18260	61	20356	62	23561	59						
ALDERGROVE 03917	182330	077	08	06	254	09	07	1591	05	07	3149	04	06	5718	21	24	7327	33	37	9292	47	++	11839	69	13565	64	16076	59												
	191130	077	09	05	251	07	03	1591	06	06	3152	03	16	5721	22	29	7320	35	41	9270	50	++	11790	70	13501	66	15986	64	18203	59										
AUGHTON 03322	182330	056	06	05	286	10	06	1620	04	01	3172	03	08	5756	20	25	7370	32	37	9335	49	++	11879	68	13618	63	16142	60	18371	59	20480	60								
	191130	056	10	06	292	09	01	1638	06	11	3191	04	16	5765	22	28	7365	34	38	9328	48	++	11868	69	13584	64	16086	62	18299	60	20394	60								
HEMSBY 03496	182330	012	06	06	283	08	05	1599	00	08	3135	04	22	5706	22	34	7304	35	46	9240	51	++	11764	65	13516	64														
	191130	012	10	07	305	08	04	1640	04	02	3195	04	09	5769	21	27	7374	34	40	9325	49	++	11846	72																
CRAWLEY 03774	182345	144	05	05	305	08	06	1635	04	17	3194	03	11	5775	20	30	7383	33	42	9334	50	++	11857	68	13606	62	16125	60	18339	61	20429	61								
	191130	144	07	06	316	07	03	1651	03	04	3208	03	11	5781	21	27	7391	33	39	9346	49	++	11876	70	13615	62	16123	61	18342	61	20433	61	23616	59						
CAMBORNE 03808	182330	088	09	09	315	09	00	1652	04	12	3206	04	17	5780	20	31	7390	33	43	9340	51	++	11860	68	13607	63	16119	60												
	191130	088	09	07	304	07	06	1645	07	08	3204	03	14	5779	20	29	7396	32	42	9360	49	++	11906	68	13637	65	15143	61	18367	59	20468	59								
VALENTIA 03953	182330	014	10	08	264	08	06	1606	08	20	3173	00	15	5780	18	24	7400	31	36	9380	45	++	11960	67	++++	++	16190	62												
	191200	014	11	09	245	09	07	1572	06	12	3134	03	19	5700	21	37	7310	32	46	9290	47	++	11830	69	++++	++	16020	63												
Ocean Weather Station 'I' 59°00'N 19°00'W	190000		10	09	050	++	++	1284	02	00	2832	05	06	5400	20	23	7020	33	36	8980	47	++	11530	68	13300	60														
	191200		07	02	004	++	++	1296	07	08	2774	17	24	5240	28	42	6800	39	++	8730	50	++	11330	54	13170	57	15730	57												
Ocean Weather Station 'J' 52°30'N 20°00'W	190000		12	10	092	11	09	1430	04	01	2987	02	22	5580	18	32	7200	31	39	9190	46	++																		
	191200		09	04	150	08	02	1459	04	07	2974	12	19	5470	25	31	7060	35	39	9010	50	++	11580	56	13420	55	16000	56	18260	56										

STATION	ww N _H C _L hC _M C _H	PRESSURE				TROPOPAUSE			
		MSL	Surf.	0°C level		mb	m	°C	
LERWICK 03005	02 00900	023 013 861	001 07 05 978 ++ 04 958 ++ 01- 902 01 03- 870 ++ 12- 850 01- 11- 837 ++ 16- 780 04- 23- 709 06- 40- 678 ++ 28- 662 ++ 15- 637 ++ 14- 587 13- 19- 440 ++ 37- 365 40- 46- 244 62- 216 67- 192 68- 175 63- 140 60- 100 61- 086 58- 070 62- 042 63-				216 11190 67- 070 18167 62-		
	02 3567+	021 011 751	982 ++ 04 942 08 04 905 05 02 876 ++ 01 853 ++ 02- 844 06 02- 816 ++ 05- 733 ++ 07- 713 03- 10- 678 ++ 11- 636 ++ 15- 566 16- 20- 350 40- 44- 179 74- 164 71- 153 63- 110 61- 100 63- 078 63-				179 12410 74-		
STORNOWAY 03026									
SHANWELL 03170	02 00902	030 029 756	014 07 03 949 04 00 913 05 08- 890 ++ 01- 844 02 01- 820 03 01- 756 00 05- 620 11- 14- 570 ++ 20- 466 25- 30- 445 ++ 33- 344 40- 47- 204 68- 193 70- 174 70- 164 64- 128 60- 100 61- 048 59- 042 62- 030 59-				193 12020 70-		
	02 25572	029 028 738	015 ++ 03 980 ++ 02 969 06 00 939 09 01- 898 09 09- 868 07 14- 655 06- 25- 533 17- 21- 343 40- 44- 208 68- 172 73- 141 62- 124 59- 100 65- 060 59- 049 63- 036 56- 030 59-				172 12731 73- 100 16059 65-		
ALDERGROVE 03917	03 15600	031 022 758	997 ++ 07 966 09 04 937 07 02 912 08 03- 887 ++ 03- 833 04 08- 797 01 03- 773 01 07- 717 ++ 05- 610 ++ 12- 556 15- 17- 400 33- 37- 300 47- 232 62- 205 69- 186 69- 173 71- 153 64- 120 63- 095 59-				205 11690 69-		
	03 38531	031 021 750	957 04 02 937 12 01- 845 ++ 06- 805 ++ 13- 656 07- 22- 578 ++ 29- 519 19- 27- 454 28- 33- 356 ++ 48- 351 41- 243 62- 207 70- 189 72- 172 72- 166 67- 157 70- 151 66- 143 67- 126 61- 103 65- 087 63- 079 58- 065 63- 058 58-				189 12110 72- 103 15760 65-		
AUGHTON 03322	02 00900	035 028 783	000 10 06 989 ++ 04 903 05 02 898 ++ 00 880 05 00 819 02 04- 765 02- 05- 725 02- 06- 565 13- 19- 417 30- 35- 345 40- 45- 258 57- 208 67- 183 69- 130 59- 053 59- 048 61-				183 12430 69-		
	02 00908	036 029 782	019 08 03 006 09 02 959 09 01- 931 11 01- 895 09 08- 786 00 16- 712 04- 18- 685 04- 18- 615 ++ 19- 564 14- 23- 513 21- 27- 405 34- 38- 346 40- 46- 241 61- 181 73- 148 63- 050 60-				181 12460 73-		
HEMSBY 03496	01 00900	035 033 860	022 09 07 902 02 03- 882 ++ 07- 830 01- 08- 740 04- 19- 715 03- 20- 551 15- 28- 442 30- 42- 375 39- 50- 232 64- 211 67- 199 65- 180 68- 172 64- 145 63- 130 60-				211 11420 67-		
	02 00908	037 036 761	010 07 04 992 09 04 901 07 00 860 04 01- 837 ++ 04- 737 ++ 07- 637 07- 12- 418 ++ 38- 365 39- 44- 351 40- 45- 201 72- 186 73- 178 66- 160 62-				186 12290 73-		
CRAWLEY 03774	02 00900	038 020 754	995 08 05 962 ++ 04 916 05 01- 900 06 07- 870 ++ 15- 840 ++ 20- 812 ++ 17- 782 ++ 08- 742 ++ 08- 720 02- 10- 663 ++ 14- 593 10- 21- 488 22- 32- 435 30- 39- 407 32- 41- 354 ++ 49- 232 65- 205 68- 180 69- 170 64- 104 60- 033 60-				205 11700 68-		
	01 26108	039 021 779 739	013 05 03 997 08 03 978 ++ 01- 961 09 02 847 ++ 04- 808 ++ 04- 773 00 07- 744 00 10- 733 ++ 08- 391 34- 40- 214 68- 191 72- 166 63- 092 61- 035 61- 030 59-				191 12150 72-		
CAMBORNE 03808	45 9+0++	039 028 769	020 08 06 991 10 02- 904 ++ 03- 883 ++ 08- 853 ++ 13- 821 03 07- 788 ++ 10- 720 ++ 12- 700 04- 17- 659 08- 15- 607 10- 18- 589 ++ 22- 395 34- 44- 364 39- 49- 268 57- 212 69- 182 68- 152 63- 084 60-				212 11500 69-		
	02 754++	037 026 769	963 04 03- 955 09 03 943 ++ 09- 928 10 08- 863 08 09- 760 01- 09- 742 00 10- 654 07- 20- 518 12- 19- 500 20- 29- 355 39- 50- 255 57- 202 58- 183 70- 135 61- 110 53- 094 60- 048 59-				183 12430 70-		
VALENTIA 03953	03 764++	032 031 708	963 06 03 944 09 02 917 09 03- 889 10 08- 760 01 16- 708 00 15- 532 15- 21- 482 20- 27- 426 28- 33- 321 41- 248 56- 182 70- 170 70- 152 65-				182 12600 70-		
	20 754++	030 028 750	955 05 03 907 01 01- 883 07 00 842 07 15- 666 05- 22- 554 17- 35- 469 24- 38- 416 31- 45- 386 33- 46- 332 41- 270 54- 176 76- 160 70- 153 64- 139 62- 110 67- 103 63- 090 62- 078 65- 061 59-				176 12700 76-		
Ocean Weather Station 'I' 59°00'N 19°00'W	61 874++	995 995 808	909 06 04 862 ++ 01 831 01 00 773 01- 02- 687 07- 07- 503 20- 23- 353 40- 43- 294 49- 235 62- 193 70- 183 63- 159 59- 141 61-				193 11800 70-		
	85 694++	997 997 929	940 01 05- 857 07- 09- 767 14- 16- 743 16- 18- 724 ++ 23- 713 16- 23- 663 ++ 28- 601 23- 30- 564 ++ 31- 555 27- 34- 530 26- 38- 484 30- 44- 415 37- 50- 365 42- 326 49- 317 48- 255 56- 169 54- 143 58- 107 57- 078 60-				255 09800 56- 143 13500 58-		
Ocean Weather Station 'J' 52°30'N 20°00'W	02 864++	011 011 785	893 05 02 860 05 02 770 01- 06- 747 00 14- 710 01- 20- 590 ++ 26- 534 15- 27- 506 17- 31- 489 ++ 34- 406 30- 38- 329 40- 46- 250 56-				250 +++++ 56-		
	02 3557+	018 018 909	007 08 02 961 04 01 940 02 00 847 04- 07- 825 03- 14- 807 ++ 20- 736 09- 20- 719 ++ 17- 570 22- 25- 532 ++ 25- 522 24- 27- 508 25- 31- 438 30- 33- 366 40- 43- 261 57- 217 61- 202 56- 134 55- 104 58- 095 55- 062 56-				217 11100 61-		

STATION		MAX. WIND
LERWICK 03005	20100m 260 44 11350/0 12250/1 087mb 250 36 16800m 260 38 11350/1	300 84 09870m 290 59 11600m 240 82 11090m
STORNOWAY 03026		
SHANWELL 03170	17400m 270 38 P27600m 270 54 18920m 250 36	280 62 27020m
ALDERGROVE 03917	168mb 280 25 P18300m 260 28 21900m 240 30 060mb 250 27 22000m 270 29 12750/1	
AUGHTON 03322	053mb 270 19 22500m 270 28 053mb 250 26 21800m 250 27	
HEMSBY 03496	220mb 330 64 20100m 270 17 12230/7 177mb 350 21 16900m 270 19	340 70 11340m
CRAWLEY 03774	038mb 260 12 15600m 270 12 12650/5 P28500m 300 24 19200m 270 16 08060/8 14170/8	
CAMBORNE 03808	093mb 250 15 17100m 260 13 11040/0 12440/7 051mb 240 12 11280/2	
VALENTIA 03953	889mb 210 41 760mb 220 37 248mb 250 26 152mb 250 18 053mb 240 27 907mb 200 37 270mb 200 49 153mb 230 42 078mb 210 27	
Ocean Weather Station 'I' 59°00'N 19°00'W	177mb 210 84 12900m 190 105 13200m 190 80 19800m 200 41 12530/1 12960/1 13300/1 084mb 220 54 07700/0 11920/1	220 119 09660m 180 153 11430m 210 94 09820m 200 108 09490m
Ocean Weather Station 'J' 52°30'N 20°00'W	14150/1 660mb 200 80 322mb 200 113 14200m 200 60 02860/0 05260/0 07230/0 08920/0 10300/1 12060/1	220 89 12900m 200 114 08690m 210 134 10230m 190 119 09100m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The main low vortex has persisted over Baffin Island with troughs rotating around its southern flank.

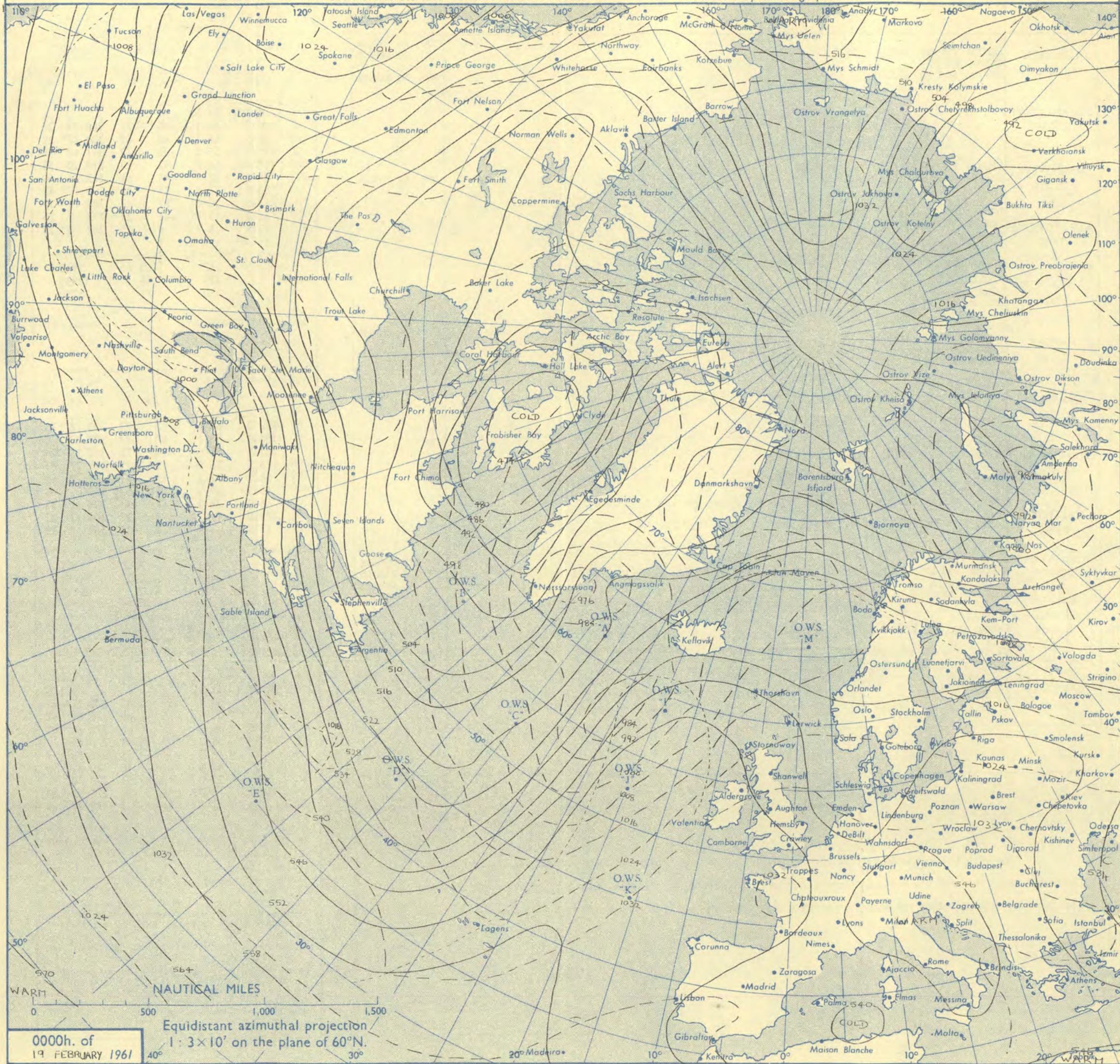
The trough which was over the eastern Atlantic yesterday has crossed the British Isles and now lies over the North Sea.

High pressure continues from the Azores to central Europe and the low near northern Russia persists.

AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	46
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700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropo- pause		Average	Max.	Min.	Max.	Min.	
		Press.	Temp.	Press.	Press.	Temp.	Temp.
		mb.	°C	mb.	mb.	°C	°C
Upper		98	-63.6	...	72	...	-73
Lower		230	-58.2	350	...	-52	...
* V _R = Vector average wind. V _S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.							
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.							
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.							

ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

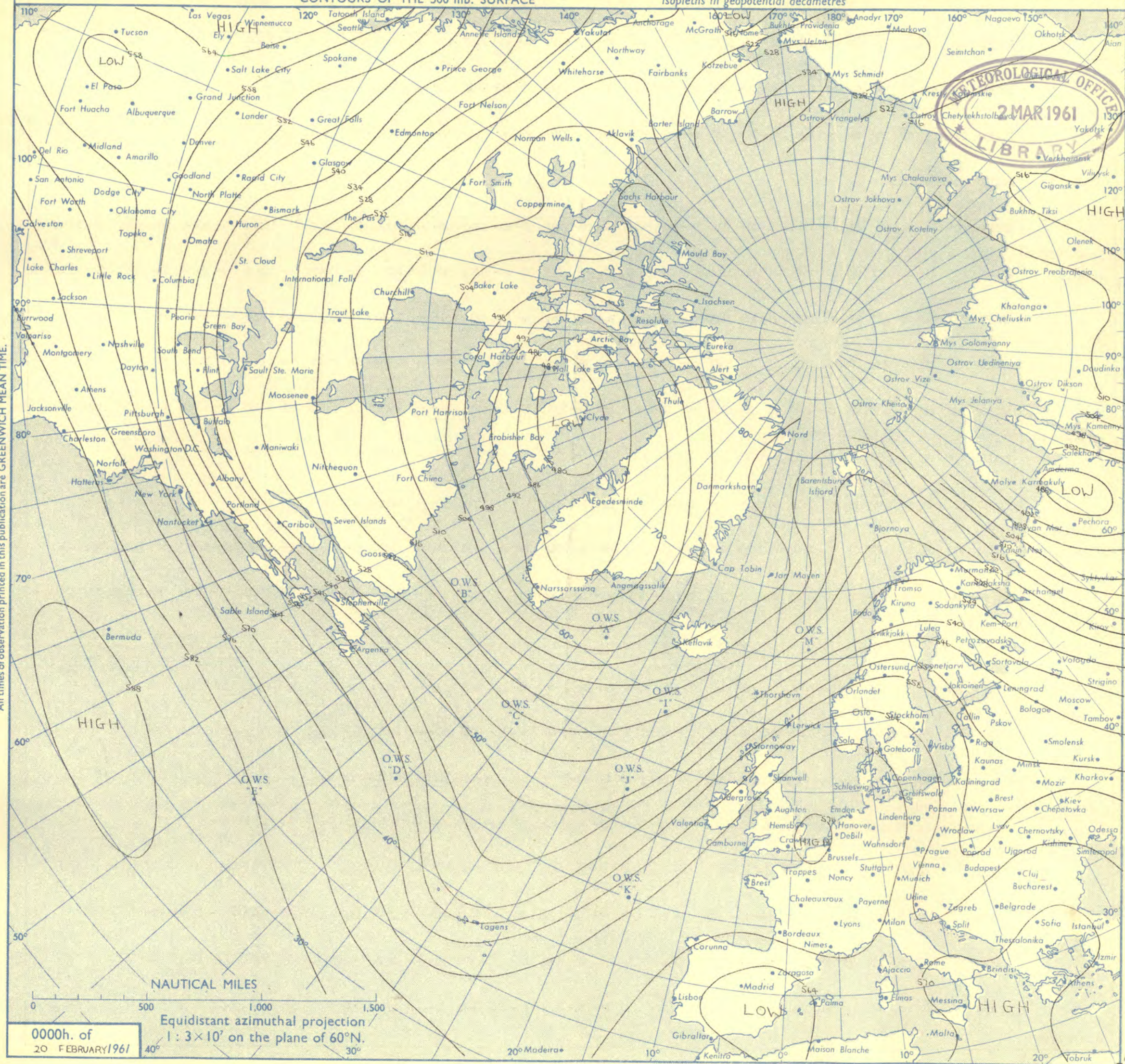
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



NAUTICAL MILES

Equidistant azimuthal projection
 $1 : 3 \times 10^7$ on the plane of $60^\circ N$.

0000h. of
 20 FEBRUARY 1961

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb		150mb		100mb		70mb		50mb		30mb	
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C		
LERWICK 03005	192330	082	08	07	175	07	05	1497	01	01-	3037	05-	08-	5597	22-	30-	7199	34-	41-	9147	49-	++	11686	69-	13425	62-	15922	63-						
	201130	082	07	07	154	07	05	1472	01-	02-	2998	09-	13-	5527	27-	50-	7099	38-	48-	9018	52-	++	11545	70-	13298	62-								
STORNOWAY 03026	192330	013	07	07	189	06	05	1504	01-	02-	3036	08-	09-	5575	25-	31-	7169	35-	40-	9119	48-	++	11688	66-	13413	67-								
	201130	No ascent made																																
SHANWELL 03170	192330	005	07	04	237	07	03	1562	06	21-	3119	04-	14-	5685	21-	28-	7293	33-	42-	9250	49-	++	11796	68-	13521	61-	16044	64-	18250	60-	20347	61-	23527	62-
	201130	005	10	04	223	08	02	1549	04	11-	3103	04-	22-	5670	22-	37-	7273	34-	48-	9217	50-	++	11760	66-	13502	62-	16037	57-	18269	61-	20362	62-	23529	62-
ALDERGROVE 03917	192330	077	08	05	237	07	04	1558	05	11-	3115	04-	21-	5672	24-	30-	7267	34-	40-	9212	51-	++	11740	71-	13467	62-	15968	62-	18181	61-				
	201230	077	10	06	234	08	05	1556	01	00	3087	06-	17-	5639	23-	35-	7237	35-	47-	9178	52-	++	11707	68-	13468	60-	15998	63-	18226	58-				
AUGHTON 03322	192330	056	04	03	273	06	02	1509	05	06-	3166	06-	14-	5726	21-	31-	7336	33-	43-	9291	50-	++	11813	71-	13535	63-	16035	62-	18234	61-	20329	62-		
	201130	056	07	05	267	05	02	1595	04	08-	3152	04-	14-	5727	20-	37-	7341	32-	48-	9301	49-	++	11840	67-	13594	59-	16129	59-						
HEMSBY 03496	192330	012	05	04	288	10	06	1630	04	07-	3186	04-	10-	5759	21-	27-	7365	34-	39-	9321	49-	++	11854	70-	13559	67-	16052	63-	18251	62-	20330	62-		
	201130	012	05	05	282	03	01	1614	05	03-	3176	03-	12-	5744	22-	30-	7344	34-	42-	9297	49-	++	11824	70-	13548	65-	16048	61-	18257	61-	20343	61-		
CRAWLEY 03774	192346	144	05	04	297	04	03	1629	04	02-	3186	04-	11-	5757	22-	30-	7364	33-	41-	9322	49-	++	11868	68-	13597	63-	16111	61-	18335	60-	20430	60-	23611	61-
	201130	144	08	05	279	05	01	1602	06	13-	3163	03-	14-	5738	21-	31-	7348	33-	43-	9308	49-	++	11849	70-	13577	63-	16096	60-	18324	59-	20427	60-		
CAMBORNE 03808	192330	088	08	06	275	06	04	1602	04	03-	3153	04-	12-	5721	21-	32-	7326	34-	44-	9265	52-	++	11770	70-	13503	64-	16002	62-	18216	61-				
	201135	088	08	05	261	05	03	1576	06	01	3138	03-	07-	5715	21-	25-	7320	34-	37-	9266	50-	++	11807	66-	13554	61-	16091	58-	18324	59-				
VALENTIA 03953	192330	014	10	06	227	08	05	1547	01-	02-	3095	04-	25-	5660	22-	32-	7270	32-	48-	9230	48-	++	11790	67-										
	201130	014	10	09	234	08	07	1557	00	01-	3091	08-	09-	5630	24-	30-	7220	35-	45-	9170	49-	++	11720	66-	+++++	++	15980	60-						
Ocean Weather Station 'I' 59°00'N 19°00'W	200001	04		02	084	03	00	1572	08-	11-	2851	18-	20-	5280	35-	42-	6800	47-	++	8680	52-	++	11290	54-										
	201200	05		03	100	03	00	1387	08-	12-	2859	21-	27-	5250	40-	48-	6750	48-	++	8620	52-	++	11240	53-	13100	54-	15700	57-	17950	59-				
Ocean Weather Station 'J' 52°30'N 20°00'W	200100	05		04-	139	03	01	1440	04-	05-	2957	13-	19-	5430	31-	43-	6980	41-	++	8880	53-	++	11500	52-	13360	55-	15950	55-	18220	56-				
	201200	07		04	186	05	01	1490	03-	11-	3000	12-	16-	5490	29-	34-	7050	40-	46-	8960	52-	++	11520	58-										

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	50 864++	021	011	824	001 ++ 05 868 01 01- 800 01- 03- 739 04- 07- 682 06- 10- 616 10- 17- 529 20- 29- 363 40- 46- 186 73- 163 61- 123 64- 100 63- 090 64-	182	12110	73-
	50 5647+	019	009	870	991 ++ 04 806 04- 06- 752 ++ 07- 737 06- 09- 694 10- 14- 678 ++ 14- 661 09- 23- 655 ++ 29- 618 ++ 38- 499 ++ 46- 472 30- 41- 420 ++ 45- 387 40- 50- 276 56- 252 58- 206 69- 194 71- 167 64- 162 60- 141 64- 133 63-	194 141	11740 13690	71- 64-
STORNOWAY 03026	51 474++	023	022	871	970 ++ 03 771 05- 06- 759 04- 05- 650 ++ 12- 575 16- 24- 492 25- 31- 474 26- 31- 360 40- 45- 178 71- 120 63-	178	12370	71-
SHANWELL 03170	02 25600	029	028	759	005 07 04 918 02 01 898 07 08- 854 06 18- 793 ++ 20- 693 ++ 15- 655 ++ 22- 518 ++ 26- 483 23- 30- 458 26- 31- 396 ++ 43- 351 40- 48- 227 63- 183 72- 176 72- 151 61- 118 59- 100 64- 098 65- 088 61- 064 59- 057 62- 043 59- 037 62- 030 62-	183 098 057 (037	12320 16170 19560 22230	72- 65- 62- 62-)
	02 655++	027	027	767	020 ++ 03 917 02 01- 907 05 01 862 05 07- 822 03 14- 660 06- 24- 522 20- 35- 454 26- 40- 395 35- 49- 323 47- 304 49- 287 53- 182 69- 140 61- 100 57- 079 61- 030 62-	182 079	12320 17500	69- 61-
ALDERGROVE 03917	03 5557+	029	020	767	014 08 05 896 00 01- 882 04 02- 870 05 06- 842 05- 11- 772 00 16- 693 04- 21- 557 17- 26- 445 ++ 34- 432 31- 35- 426 31- 35- 361 ++ 46- 295 51- 186 73- 147 61- 117 64- 053 58-	186	12160	73-
	20 3553+	029	019	843	942 04 03 880 02 01 776 ++ 05- 770 05- 08- 758 04- 09- 730 ++ 15- 688 07- 18- 558 18- 29- 489 24- 37- 384 ++ 49- 284 55- 187 70- 167 60- 118 60- 100 63- 080 58- 070 58-	187 100	12100 16000	70- 63-
AUGHTON 03322	10 00901	034	027	775	025 06 04 021 ++ 02 980 05 00 937 10 01- 922 ++ 05- 881 07 06- 865 04 07- 853 06 05- 837 04- 07- 829 05 05- 802 02 06- 693 06- 14- 670 08- 18- 612 12- 18- 499 21- 31- 356 40- 50- 191 73- 149 63- 097 62- 082 65- 077 62- 057 60- 050 62-	191	12080	73-
	02 785++	033	026	758	024 ++ 03 948 02 00 939 04 02 916 08 09- 910 ++ 18- 878 ++ 22- 827 03 06- 805 03- 06- 795 ++ 07- 777 ++ 13- 749 ++ 09- 623 09- 22- 558 16- 28- 525 17- 32- 485 21- 38- 473 24- 41- 348 40- 260 57- 216 66- 188 69- 155 59- 082 60-	188	12210	69-
HEMSBY 03496	10 00902	036	034	772	018 10 08 949 ++ 02- 927 09 05- 891 ++ 14- 864 05 03- 841 ++ 09- 783 ++ 14- 756 02- 10- 739 ++ 08- 640 08- 14- 589 ++ 18- 351 40- 45- 218 67- 179 73- 134 63- 038 63-	179	12520	73-
	10 855++	035	034	745	014 ++ 02 990 02 01 985 04 03 977 07 02 970 ++ 02- 962 08 04- 953 ++ 07- 921 07 03- 895 ++ 07- 838 ++ 02- 802 04 04- 624 09- 18- 440 29- 36- 354 40- 47- 224 66- 197 71- 113 60- 040 62-	197	11900	71-
CRAWLEY 03774	02 864++	037	019	763	017 ++ 03 974 03 02 959 09 05 939 ++ 01 821 ++ 03- 675 05- 12- 644 ++ 16- 354 ++ 47- 279 52- 208 67- 174 72- 155 63- 083 60- 030 61-	174	12690	72-
	02 654++	035	017	749	008 06 01 973 04 01 961 ++ 01 911 03 05- 890 ++ 07- 836 06 16- 811 ++ 10- 779 02 10- 490 22- 33- 404 33- 43- 379 35- 45- 348 ++ 50- 310 47- 197 71- 175 70- 150 63- 104 60- 048 60-	197	11930	71-
CAMBORNE 03808	02 562++	034	023	780	005 06 03 959 03 03 939 07 03 910 07 01- 820 02 05- 728 ++ 14- 695 ++ 13- 675 06- 14- 552 17- 26- 514 19- 30- 365 40- 50- 293 54- 212 70- 195 71- 180 71- 169 65- 135 62- 068 61-	195	11920	71-
	02 754++	032	021	922	000 05 03 940 ++ 00 898 01- 02- 877 06 04 860 06 01 845 06 01 812 04 03 720 ++ 04- 688 ++ 08- 647 ++ 08- 548 16- 20- 361 40- 43- 251 60- 179 70- 155 60- 134 61- 105 58- 068 59-	179	12470	70-
VALENTIA 03953	02 864++	028	026	875 760	983 06 03 959 06 04 854 01- 02- 827 02- 03- 818 00 21- 805 02 20- 760 00 22- 617 11- 32- 557 17- 32- 524 19- 32- 459 26- 41- 429 29- 45- 224 60- 224 63- 189 70- 182 70- 161 63-	189	12100	70-
	55 863++	028	027	850	998 08 07 829 01- 02- 639 11- 22- 560 17- 27- 440 31- 39- 384 37- 47- 354 42- 313 47- 268 55- 185 69- 167 70- 159 62- 137 60- 130 62- 095 60- 056 61-	185	12200	69-
Ocean Weather Station 'I' 59°00'N 19°00'W	83 794++	010	010	955	973 ++ 04- 903 04- 07- 742 15- 17- 638 25- 27- 571 ++ 35- 508 34- 41- 446 40- 47- 367 51- 347 49- 303 51- 268 57- 229 50- 200 54- 160 52-	268 (200	09400 11300	57- 54-)
	25 49400	012	012	961	973 01 04- 878 ++ 08- 867 ++ 11- 830 10- 13- 792 ++ 20- 766 ++ 21- 832 ++ 22- 644 26- 33- 580 32- 42- 494 40- 48- 419 47- 321 52- 250 53- 173 52- 108 54- 098 58- 078 57- 067 59-	321 098	08200 15800	52- 58-
Ocean Weather Station 'J' 52°30'N 20°00'W	61 875++	017	017	943	000 ++ 01 967 01 00 809 ++ 08- 763 ++ 15- 753 09- 15- 724 11- 16- 648 16- 24- 527 29- 40- 423 38- 355 48- 340- 48- 296 54- 282 53- 277 50- 245 55- 205 51- 108 57- 094 54- 077 58- 074 56- 060 58-	296 245 (077	09000 10200 17600	54- 55- 58-)
	01 21531	023	023	936	012 06 01 992 04 00 934 00 03- 880 02- 10- 780 ++ 15- 761 08- 14- 644 17- 20- 622 18- 23- 594 ++ 24- 517 28- 33- 429 38- 44- 351 46- 332 47- 245 61- 189 57- 178 58-	245	10200	61-

STATION*	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	192330	T	210 24	+++ ++	240 45	240 51	240 52	240 57	240 73	230 72	230 79	240 72	230 81	230 87	240 60	250 50					
	200530	P	210 16	+++ ++	230 26	240 37	230 41	230 56	230 67	220 75	230 90	230 96	230 91	230 92	230 65						
	201130	T	210 25	+++ ++	220 34	230 38	240 56	230 58	230 68	230 71	230 93	230103	230103	230100	230 82						
	201730	P	230 37	+++ ++	250 46	250 50	250 55	240 57	230 68	230 78	230 87	230116	230120	240 88	250 64	250 58	250 54				
STORNOWAY 03026	192330	T	240 10	+++ ++	230 23	220 37	230 51	230 57	230 74	230 84	220 83	220 83	210 89	210 92	220 70						
	200530		No winds reported																		
	201130		No winds reported																		
	201730	P	250 10	+++ ++	250 27	250 27	250 30	240 53	240 66	240 79	230 96	230109	230115	230 80	240 57	240 56	260 37	240 31			
SHANWELL 03170	192330	T	240 14	+++ ++	240 34	230 40	220 40	230 43	220 46	220 47	220 50	230 58	220 57	220 46	220 42	240 34	260 34	270 39			
	200530	P	240 16	+++ ++	230 40	230 45	220 48	220 48	210 48	220 52	220 56	220 63	220 53	220 54	240 43	250 30					
	201130	T	220 20	240 34	250 39	240 41	220 44	220 48	220 55	210 59	220 70	220 74	220 66	220 55	220 53	250 45	250 32	250 37			
	201730	P	230 16	+++ ++	250 31	250 38	250 31	250 32	230 43	230 58	230 70	230 82	230 80	230 68	230 54	260 45	250 42				
ALDERGROVE 03917	192330	T	170 14	+++ ++	210 26	210 37	220 33	220 40	220 46	220 50	220 62	210 64	210 59	210 54	220 37	240 35	240 27				
	200530	P	180 18	+++ ++	210 35	220 45	220 46	210 49	210 50	210 53	210 69	210 73	210 59	210 61	230 40	240 36					
	201130	T	190 18	+++ ++	230 25	230 27	210 33	210 32	220 38	220 55	220 70	210 72	210 74	220 63	220 42	240 30					
	201730	P	190 09	+++ ++	240 17	240 18	240 20	240 20	220 31	220 47	220 65	220 75	220 64	220 54	240 45	240 30	250 36				
AUGHTON 03322	192330	T	000 00	200 12	210 20	210 20	210 22	220 23	220 27	210 33	230 28	210 32	200 39	200 26	220 20	250 18	250 29				
	200530	P	090 08	+++ ++	210 20	200 25	210 23	210 23	200 26	200 31	210 33	200 39	210 45	190 38	230 25	240 22	250 30	260 31			
	201130	T	160 05	180 10	210 16	210 25	230 23	220 26	210 35	210 33	210 43	210 52	210 49	210 42	220 33	230 28					
	201730	P	190 03	+++ ++	210 07	240 14	230 15	200 20	210 34	220 32	220 38	220 44	200 56	210 43	240 32	240 26	250 29				
HEMSBY 03496	192330	T	220 08	+++ ++	220 06	170 03	140 04	180 07	210 06	210 05	260 07	220 09	160 03	090 05	210 06	270 19	270 18	260 21			
	200530	P	200 07	+++ ++	170 07	170 11	160 12	180 11	190 12	210 11	190 10	210 17	190 20	190 19	230 12	250 14					
	201130	T	200 12	190 10	160 21	160 17	180 12	190 15	190 12	190 12	190 15	220 20	200 20	190 32	210 19	250 19	260 22	260 27			
	201735	P	180 05	+++ ++	190 13	170 19	180 15	180 13	200 09	190 10	200 14	190 21	200 30	200 33	240 16	250 18	250 28	260 27			
CRAWLEY 03774	192346	T	180 04	+++ ++	120 10	130 11	150 13	160 13	150 12	170 11	220 08	170 14	150 21	130 07	200 07	270 13	260 18	290 13	260 17		
	200545	P	180 02	+++ ++	140 13	140 14	160 14	150 18	160 18	170 16	170 12	170 16	180 21	170 24	220 08	240 11	270 19				
	201130	T	160 07	+++ ++	170 16	140 13	160 19	160 19	170 20	170 17	160 13	170 21	160 29	170 37	200 17	240 14	260 17				
	201730	P	000 00	+++ ++	160 08	150 13	140 15	150 15	170 11	150 12	150 12	160 25	160 33	180 28	230 14	250 15	260 20				
CAMBORNE 03808	192330	T	160 10	+++ ++	160 19	170 15	170 19	170 19	170 22	190 24	170 19	170 26	180 32	170 19	210 17	230 16					
	200530	P	130 10	+++ ++	170 14	170 16	160 19	180 23	180 27	200 28	170 35	170 37	180 37	180 27	230 13	220 16					
	201135	T	130 11	+++ ++	150 12	160 19	170 20	180 22	190 26	180 23	180 34	170 50	170 48	180 30	190 18	220 21					
	201730	P	080 06	+++ ++	130 07	140 09	170 15	170 17	180 19	180 18	170 27	170 31	170 47	480 22	220 16	250 18					
VALENTIA 03953	192330	T	180 13	180 19	+++ ++	190 34	+++ ++	210 42	+++ ++	200 59	200 69	200 68	+++ ++	200 59							
	201130	T	170 11	170 18	+++ ++	210 19	+++ ++	210 19	+++ ++	210 38	200 50	210 50	+++ ++	210 59							
Ocean Weather Station 'I' 59°00'N 19°00'W	200001	T	230 25	+++ ++	230 32	230 36	230 30	220 30	210 52	220 62	220 87	220100	210 84	200 81							
	200600	P	225 30	+++ ++	240 30	240 33	240 35	220 39	230 62	220 70	200 88	200 79	220 63	230 68	230 62	230 61	250 43	250 44			
	201200	T	250 28	+++ ++	240 35	230 42	240 38	240 44	240 50	240 49	230 59	240 60	240 64	240 63	240 59	240 46	240 43				
	201800	P	225 40	+++ ++	230 48	230 45	230 47	240 45	250 48	230 57	230 69	230 79	230 81	230 66	230 60	230 60					
Ocean Weather Station 'J' 52°30'N 20°00'W	200100	T	350 12	+++ ++	+++ ++	+++ ++	+++ ++	220 27	230 55	240 57	250 93	230 97	210 92	210 66	200 54	220 42					
	200600	P	225 10	+++ ++	330 10	280 09	260 22	250 38	220 49	220 68	230 71	210 99	220 60	220 52	220 49	220 29					
	200120	T	090 10	+++ ++	080 04	210 07	220 22	230 50	220 51	230 61	230 72	240 30	250 31	240 40	230 40	250 21	230 29	230 30			
	201800	P	180 10	+++ ++	170 14	170 12	190 17	200 27	190 39	220 39	210 54	220 40	220 43	220 39	250 34	240 27					
LARKHILL 03743	200730	P	130 04	+++ ++	160 12	150 13	160 13	170 16	170 16	170 14	190 20	190 28	180 27	180 29	210 15	230 17	250 19				
	201130	P	170 05	+++ ++	160 12	150 19	150 14	180 14	180 18	180 18	190 16	180 29	170 36	190 31							

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE			SURFACE		1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb						
		MSL	Surf.	0°C level	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C					
201303	44.4°N 19.3°W	018	011	825	061	11 08	149	09 04	1021	05 02	1484	01 00	1972	01- 02-	03- 05-	3030	06- 11-	09- 13-	4218	13- 18-	18- 22-	5575	24- 28-
Cloud :— 3/8 St. 1100 to 1800 ft: 2/8 Ci 1800 to 7000 ft: 2/8 Sc 3000 to 3500 ft: 7/8 Sc 5000 to 6000 ft: 2/8 Ac 9000 to 14000 ft 3/8 Ac 17000 to 18000 ft: Inversion Levels :— 965 to 950mb 7 3/4 °C to 9°C																							
Isothermal Levels :— 1011 to 1000mb 11°C																							
YYGGgg	POSITION	PRESSURE			SURFACE		1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb						
		MSL	Surf.	0°C level	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C					
Cloud :— Inversion Levels :—																							
Isothermal Levels :—																							
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STATION		MAX. WIND
LERWICK 03005	15300m 230 55 19500m 250 52	230 90 11900m 230 100 09620m 230 114 10500m 230 127 11370m
STORNOWAY 03026	125mb 220 64 02390/0 11410/1 17480/1	210 95 11700m 230 126 09970m
SHANWELL 03170	P21700m 280 40 034mb 260 48 19750m 280 41 10850/1	220 65 08940m 220 78 08320m 230 86 09880m
ALDERGROVE 03917	060mb 230 32 18000m 240 37 P 18000m 260 32 12510/1 05230/0 12180/1 13900/1	210 68 08680m 210 80 09300m 210 84 08090m 220 78 08790m
AUGHTON 03322	054mb 250 24 22500m 270 28 19800m 270 27 11560/1	
HEMSBY 03496	042mb 270 21 12800m 210 17 17400m 250 20 106mb 250 19 13200m 220 19	
CRAWLEY 03774	20400m 270 15 00990/5 01600/2 11850/2 13060/2 053mb 240 16 09500/0 12620/1	
CAMBORNE 03808	074mb 240 19 17400m 240 22 073mb 220 17 09790/0 11580/1	
VALENTIA 03953	959mb 180 36 760mb 200 40 617mb 200 52 224mb 190 58 161mb 200 65 829mb 220 16 639mb 200 27 268mb 200 52 159mb 220 41 056mb 240 24	200 73 07800m
Ocean Weather Station 'I' 59°00'N 19°00'W	172mb 200 69 03900m 220 52 17400m 240 52 21000m 250 44 03950/0 08250/1 17050/1 15900m 230 60 16500m 230 45 16500/1	220 111 08230m 190 101 08000m 240 66 09570m 230 90 10170m
Ocean Weather Station 'J' 52°30'N 20°00'W	443mb 240 75 080mb 210 32 357mb 230 48 07900/1	210 99 09750m 220 100 08280m
LARKHILL 03743	20100m 250 18 12650/2 12900m 200 17	

NOTES ON THE AEROLOGICAL SITUATION

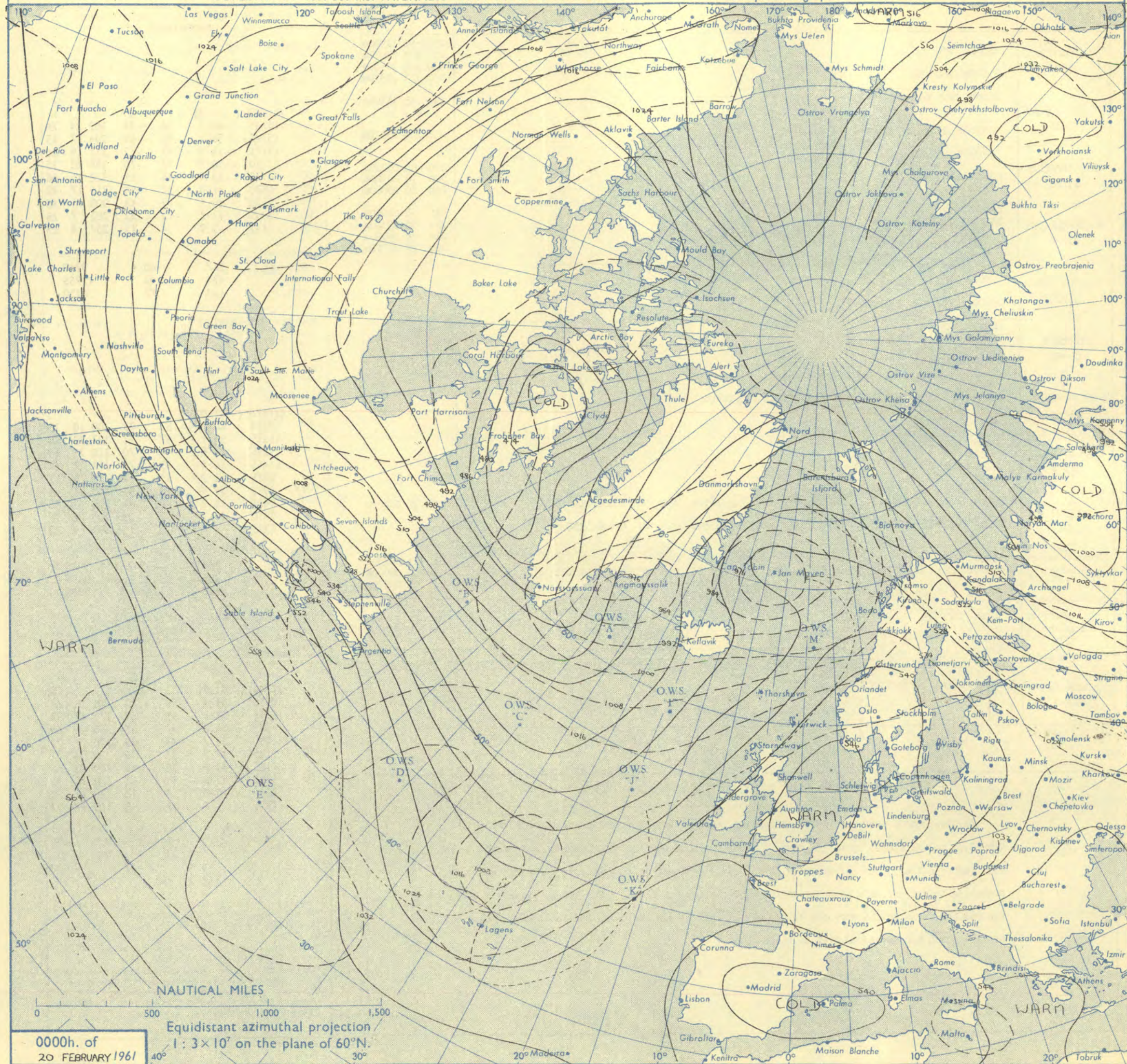
The low centre over Baffin Island persists while a trough extending southwards from south Greenland to the Azores is moving east. Another trough over the St. Lawrence estuary is moving east rather quickly, and intensifying. The ridge from off northwest Spain to Scandinavia is beginning to cut off as a separate centre over the low countries. The trough extending southwest towards the north of the Adriatic is now moving only slowly southeast and is linking with a cut off low which has developed over southern Spain.

AVERAGE AND EXTREME VALUES 1951-55								
FEBRUARY								
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.								
Press. Level	Average		Extreme Temps.			Wind*		
	Height	Temp.	Max.	Min.		V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	(21460)	(-61.5)	...	...	...	...	...	...
60	18945	-60.1	-46	-71	...	309	24	26
100	15745	-58.1	-46	-69	...	304	17	25
150	13175	-55.3	-42	-72	...	311	18	28
200	11350	-56.7	-42	-70	...	318	20	35
300	8770	-52.7	-43	-61	...	322	21	46
400	6870	-41.4	-31	-56	...	315	17	42
500	5320	-30.1	-19	-43	...	308	13	35
700	2845	-13.7	-2	-23	...	292	7	26
850	1345	-5.7	4	-13	...	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)			
Average		267	-60.4		9960			
Max.		422	-43		12955			
Min.		160	-75		6250			
LARKHILL/CRAWLEY † at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)								
Press. Level	Average		Extreme Temps.			Wind*		
	Height	Temp.	Max.	Min.		V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	(21570)	(-61.0)	...	...	...	...	...	...
60	19050	-60.1	-52	-73	...	308	18	25
100	15855	-58.1	-47	-71	...	307	20	28
150	13285	-55.5	-44	-70	...	310	25	34
200	11455	-56.9	-43	-72	...	313	27	41
300	8875	-52.2	-43	-61	...	315	28	52
400	6965	-39.9	-28	-54	...	309	23	44
500	5405	-28.2	-17	-41	...	306	18	35
700	2910	-11.2	2	-22	...	304	12	25
850	1395	-3.4	6	-15	...	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)			
Average		264	-59.7		9835			
Max.		456	-42		14355			
Min.		126	-76		5850			
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.								
Press. Level	Average		Extreme Temps.			Wind*		
	Height	Temp.	Max.	Min.		V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	(21740)	(-61.9)	...	...	...	...	...	(15)
60	19250	-64.4	-59	-73	...	270	28	31
100	16115	-62.3	-55	-69	...	270	49	52
150	13575	-56.8	-47	-66	...	270	66	69
200	11740	-55.7	-43	-68	...	270	71	77
300	9125	-47.2	-37	-56	...	270	58	71
400	7165	-33.6	-26	-46	...	270	45	56
500	5565	-22.0	-13	-33	...	270	36	45
700	3005	-5.0	6	-13	...	275	23	30
850	1455	3.7	21	-3	...	275	17	24
Tropopause		Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
		mb.	°C	mb.	mb.	°C	°C	
Upper		98	-63.6	...	72	...	-73	
Lower		230	-58.2	350	...	-52	...	

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09

ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

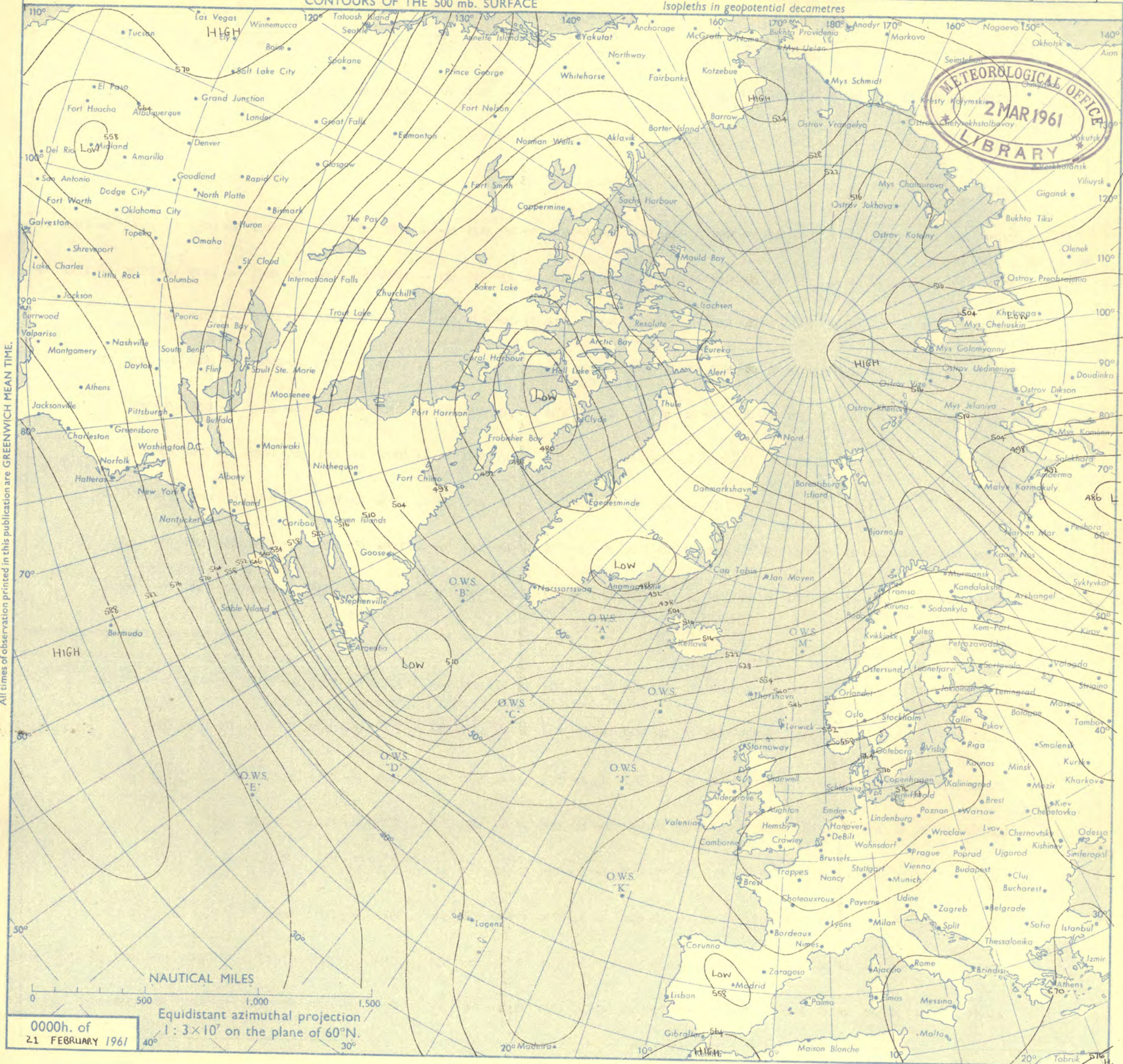
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



0000h. of
21 FEBRUARY 1961

Equidistant azimuthal projection
1:3 x 10⁷ on the plane of 60°N.

STATION	YYGGgg	SURFACE	1000mb	850mb	700mb	500mb	400mb	300mb	200mb	150mb	100mb	70mb	50mb	30mb
		gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C
LERWICK 03005	202330	082 05 03	204 05 02	1510 04- 10-	3010 14- 22-	5501 27- 38-	7077 38- 49-	9002 52- ++	11534 66- 13308	61- 15840	59- 18055	62- 20136	62-	
	211130	082 07 03	238 05 00	1540 03- 11-	3059 10- 20-	5558 28- 38-	7118 41- ++	9017 55- ++	11533 64- 13318	60-				
STORNOWAY 03026	202330	013 03 02	224 05 02	1529 04- 09-	3036 12- 21-	5543 27- 32-	7113 39- 45-	9031 52- ++	11563 65- 13342	60- 15888	58- 18124	62-		
	211130	013 08 06	221 05 02	1531 00 20-	3061 09- 27-	5581 25- 41-	7155 39- 47-	9065 53- ++	11582 63- 13376	61- 15892	61- 18104	62- 20170	64-	
SHANWELL 03170	202330	005 07 06	241 07 05	1555 02- 03-	3096 07- 25-	5634 24- 34-	7231 35- 46-	9173 50- ++	11722 65- 13488	59- 16027	60- 18251	61- 20343	59- 23538	61-
	211135	005 06 06	244 06 03	1557 00 04-	3099 06- 18-	5648 24- 40-	7238 36- 49-	9169 51- ++	11694 67- 13460	62- 15991	60- 18229	60- 20325	62- 23522	59-
ALDERGROVE 03917	202330	077 09 06	244 08 05	1561 02- 04-	3088 08- 25-	5625 24- 39-	7212 37- 50-	9135 53- ++	11653 68- 13405	61- 15926	60- 18151	60-		
	211140	077 07 02	228 05 00	1524 02 08-	3073 05- 24-	5626 23- 42-	7216 36- ++	9141 51- ++	11673 67- 13427	61- 15947	60- 18162	61- 20248	62-	
AUGHTON 03322	202330	056 03 02	259 05 02	1579 04- 04-	3132 04- 12-	5707 21- 35-	7316 33- 45-	9269 49- ++	11822 66- 13574	61- 16107	59- 18350	59- 20450	60-	
	211145	056 07 04	239 05 01	1561 03 13-	3115 04- 16-	5681 22- 34-	7279 35- 45-	9223 50- ++	11766 67- 13513	60- 16038	61- 18260	60- 20358	60-	
HEMSBY 03496	202330	012 04 04	263 03 01	1595 05 04-	3157 04- 14-	5725 22- 30-	7330 33- 42-	9286 48- ++	11834 69- 13558	63- 16071	60- 18292	61- 20384	60-	
	211228	012 05 04	242 03 00	1567 05 16-	3128 03- 18-	5698 21- 31-	7298 34- 43-	9248 50- ++	11782 69- 13527	61- 16058	59- 18287	59-		
CRAWLEY 03774	202330	144 04 04	253 03 02	1583 04 16-	3141 03- 16-	5709 23- 33-	7307 35- 45-	9252 50- ++	11787 68- 13535	61- 16060	60- 18286	60- 20384	61-	
	211130	144 05 04	233 04 02	1556 04 17-	3124 02- 28-	5704 20- 33-	7319 32- 45-	9286 47- ++	11864 65- 13604	63- 16133	59- 18366	61- 20471	60- 23659	62-
CAMBORNE 03808	202330	088 07 04	238 06 02	1560 07 30-	3126 01- 20-	5709 21- 38-	7316 33- 46-	9272 48- ++	11838 65- 13587	62- 16118	59- 18354	59- 20462	59-	
	211200	088 08 06	216 05 03	1526 03 10-	3085 03- 28-	5641 24- 40-	7231 36- ++	9171 51- ++	11701 66- 13477	58- 16015	60- 18259	58-		
VALENTIA 03953	210021	014 08 06	229 07 05	1539 02- 04-	3082 05- 25-	5630 24- 41-	7220 37- ++	9140 52- ++	11680 66-					
	211130	014 09 04	208 07 02	1521 02 03-	3072 03- 28-	5640 24- 45-	7230 36- ++	9150 51- ++	11700 64- +++++	++ 16040	59-			
Ocean Weather Station 'I' 59°00'N 19°00'W	210000	07 03 110	06 01 1415	05- 07- 2908	15- 17- 5370	29- 35- 6940	39- 45- 8850	53- ++	11410	58-				
	211200	09 05 039	09 05 1356	00 03- 2890	07- 18- 5420	24- 34- 7010	37- 46- 8930	54- ++	11450	60- 13260	57-			
Ocean Weather Station 'J' 52°30'N 20°00'W	210000	09 03 151	08 01 1466	00 09- 3000	08- 22- 5520	27- 34- 7100	38- 45- 9010	53- ++	11550	60- 13370	57- 15910	59- 18160	59- 20270	59- 23450 58-
	211200	11 09 075	10 07 1403	02 01- 2947	06- 20- 5510	21- 36- 7110	35- 47- 9060	50- ++	11600	63- 13410	57- 15970	57- 18220	58- 20330	60-

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 18402	025 015 915	008 ++ 02 000 05 02 969 ++ 01 734 13- 18- 725 ++ 18 698 ++ 22- 613 20- 33- 576 21- 32- 390 39- 50- 265	58- 200 66- 179 62- 100 59- 081 63- 050 62-		200	11530	66-
	02 18506	029 019 925	012 06 01 955 ++ 04- 904 02- 06- 862 ++ 11- 833 04- 12- 765 05- 15- 716 08- 18- 585 21- 31- 566 22- 33-	404 40- 49- 269 60- 209 65- 159 60- 140 61-		209	11260	65-
STORNOWAY 03026	02 15600	028 026 923	023 06 03 938 01 02- 824 ++ 09- 759 09- 18- 694 13- 22- 669 13- 22- 602 ++ 24- 509 ++ 31- 394 40- 46- 251	60- 199 65- 154 60- 127 60- 113 57- 081 59- 069 62- 060 63-		199	11600	65-
	03 755++	027 026 908 818	013 06 03 886 01- 03- 866 01 17- 826 00 26- 737 ++ 38- 709 ++ 32- 639 14- 19- 617 ++ 28- 590 ++ 29- 568	++ 28- 560 20- 32- 503 25- 42- 465 30- 42- 394 40- 47- 313 52- 217 66- 176 59- 137 62- 107 61- 040 65-		217	11100	66-
SHANWELL 03170	02 855++	030 029 880 786	013 07 05 850 02- 03- 829 01 07- 820 ++ 13- 790 00 18- 662 10- 28- 540 ++ 29- 438 30- 41- 276 54- 194 67-	142 58- 100 60- 030 61-		194	11900	67-
	45 9+0++	030 030 900 804	027 05 02 991 06 03 864 02- 05- 839 02- 03- 792 ++ 09- 770 02- 08- 690 ++ 21- 604 13- 28- 404 35- 49- 311	50- 214 66- 204 67- 190 67- 161 60- 100 60- 044 61- 030 59-		204	11540	67-
ALDERGROVE 03917	20 654++	030 020 879	010 ++ 05 950 ++ 03 893 01 00 820 04- 05- 800 01- 06- 768 ++ 16- 750 ++ 13- 722 ++ 21- 695 ++ 25- 591 15-	29- 550 ++ 35- 425 33- 48- 340 46- 260 59- 193 69- 147 61- 058 61-		193	11870	69-
	04 455++	028 019 942 780	010 03- 06- 873 05- 07- 858 02 05- 848 ++ 09- 795 ++ 11- 746 02- 19- 643 11- 30- 614 12- 30- 408 ++ 50-	390 37- ++ 340 46- 220 65- 177 68- 168 63- 105 60- 035 65-		200	11673	67-
AUGHTON 03322	10 00900	032 025 774	012 ++ 01 005 05 01 947 03 01 936 ++ 01 897 05 02- 819 02 06- 780 00 07- 688 04- 13- 532 ++ 31- 354 40-	++ 307 49- 217 64- 188 68- 133 59- 050 60-		188	12200	68-
	10 00900	030 023 761	015 ++ 03 946 02 01- 920 05 03- 892 04 09- 818 ++ 19- 800 02 17- 761 00 12- 740 01- 13- 542 ++ 29- 508	21- 33- 368 40- 50- 254 58- 194 69- 150 60- 065 61- 047 59- 040 62- 035 59-		194	11930	69-
HEMSBY 03496	46 860++	033 031 751	999 02 00 988 ++ 02 972 06 01 920 ++ 08- 892 07 16- 866 ++ 02- 640 08- 18- 501 22- 30- 349 40- 48- 197	70- 175 72- 145 62- 105 60- 040 60-		175	12620	72-
	02 872++	030 028 746	020 ++ 01 988 02 01- 972 06 01 957 ++ 02- 935 ++ 00 905 05 10- 808 04 21- 761 ++ 16- 627 ++ 20- 358 40-	48- 253 59- 190 71- 170 64- 118 59- 060 61-		190	12080	71-
CRAWLEY 03774	47 9+0++	031 013 751	002 03 02 980 07 02 951 08 06- 886 04 13- 828 04 17- 785 03 12- 738 ++ 12- 688 ++ 17- 613 ++ 21- 363 ++	49- 327 46- 222 65- 185 70- 155 61- 044 60- Pressure suspect above 10cmb		185	12250	70-
	02 861++	029 011 722	996 ++ 02 964 01 00 941 06 03- 935 ++ 08- 851 04 17- 837 05 21- 797 05 26- 612 ++ 33- 512 ++ 32- 427 29-	41- 375 36- 48- 234 59- 168 70- 148 62- 115 59- 035 60- 030 62-		168	12920	70-
CAMBORNE 03808	02 854++	029 018 727	009 ++ 02 910 00 01- 900 05 01- 883 ++ 15- 853 07 30- 825 ++ 16- 770 02 12- 705 01- 18- 512 19- 36- 410	32- 46- 380 36- 49- 314 46- 217 63- 183 68- 126 59- 044 59-		183	12380	68-
	10 863++	026 016 908 733	995 05 03 958 03 02 908 00 01- 863 01- 02- 855 03 08- 813 ++ 30- 760 02 34- 661 ++ 29- 471 27- 42- 406	35- 49- 305 50- 206 68- 196 65- 188 67- 159 59- 101 60- 067 56- 063 58-		206	11510	68-
VALENTIA 03953	03 585++	028 026 900 810	859 03- 04- 830 01 04- 790 01- 15- 684 06- 25- 646 09- 25- 441 32- 48- 360 42- 294 53- 272 55- 235 62- 187	68- 152 59- 106 59-		187	12100	68-
	02 856++	025 024 905 780	865 03- 05- 848 02 04- 805 01 10- 683 04- 29- 605 10- 39- 466 28- 49- 351 44- 289 53- 222 63- 191 64- 164	58- 102 59- 093 57- 076 60- 037 59-		222	10700	63-
Ocean Weather Station 'I' 59°00'N 19°00'W	25 534++	013 013 921	989 ++ 01- 860 ++ 06- 803 09- 12- 763 11- 12- 682 17- 19- 660 19- 22- 596 25- 30- 568 24- 30- 456 33- 39-	390 40- 46- 319 50- 245 61- 200 58-		245	10100	61-
	02 78502	005 005 887 838	979 06 03 860 02- 03- 847 00 02- 813 01- 17- 774 03- 19- 732 ++ 22- 709 06- 18- 682 ++ 17- 608 16- 22-	580 ++ 24- 570 20- 26- 530 20- 28- 497 ++ 35- 381 40- 48- 332 48- 265 61- 237 66- 174 56- 110 58-		237	10400	66-
Ocean Weather Station 'J' 52°30'N 20°00'W	03 55500	018 018 903 842	005 08 01 878 02- 03- 862 01 05- 842 ++ 11- 788 01- 15- 712 08- 21- 690 08- 23- 494 28- 35- 385 40- 46-	275 58- 239 62- 178 60- 161 56- 117 60- 078 57- 036 62-		239	10400	62-
	80 785++	009 009 820	003 10 07 924 04 03 908 05 03 827 00 03- 774 01- 08- 732 ++ 15- 684 06- 20- 638 10- 23- 517 19- 33- 398	35- 47- 358 40- 50- 320 47- 237 62- 217 65- 175 58- 099 57- 081 59- 062 57- 056 60- 043 60-		217	11100	65-
						056	29600	60-

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
211352	54.5°N 28.9°W	988 980 875	061 07 01	101- 05 01-	759 02 06-	421 02- 09-	1216 02- 09-	1695 05- 13-	07- 27-	2734 08- 31-	13- 35-	3908 17- 42-	22- 41-	5249 27- 45-
Cloud :— 2/8 Cu. HNG to 5000 ft. 3/8 Sc. HNG to 4000 ft.														
Inversion Levels :— Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :—														
Inversion Levels :— Isothermal Levels :—														
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For special arrangements for supply to schools and colleges see Form 2452.											Meteorological Office, Air Ministry, Kingsway, London, W.C.			

STATION		MAX. WIND
LERWICK 03005	02800/0 03200/0 11400/1 12000/1 12500/1	240 110 10400m 240 98 11140m 260 87 08890m 260 73 10150m
STORNOWAY 03026	15000m 260 39 11400/1 044mb 250 38 19500m 270 40	230 100 09520m 230 89 10180m 230 77 10500m 240 65 10290m
SHANWELL 03170	19800m 270 42 P28300m 270 65 10010/0 10470/1	230 78 08920m 230 68 10040m 270 68 28420m 240 62 10230m
ALDERGROVE 03917	550mb 220 33 062mb 260 25 19400m 250 35 03050/3 12100/4 037mb 250 16 12350/1	220 64 07450m
AUGHTON 03322	053mb 250 22 182mb 220 39 038mb 270 21 12060/1	
HEMSBY 03496	17200m 250 23 19710m 270 24	
CRAWLEY 03774	23100m 270 21 11870/0 28800m 260 46 29700m 280 46 11580/4 15000m 200 08	
CAMBORNE 03808	P18100m 250 16 13500m 210 10 11870/1 11100/1	
VALENTIA 03953	00300m 150 16 00600m 150 16 18000m 260 22 20100m 240 16 605mb 190 28 222mb 190 23 164mb 220 25 076mb 250 20 037mb 250 31	
Ocean Weather Station 'I' 59°00'N 19°00'W	P17400m 250 42 12900m 230 52 120mb 230 44	270 64 09640m 220 63 08620m 210 66 10660m
Ocean Weather Station 'J' 52°30'N 20°00'W	033mb 250 27 19500m 280 22 24600m 240 36 01620/0 03100/1	
LARKHILL 03743	11830/1 09350/0 11430/1 14250/2	

NOTES ON THE AEROLOGICAL SITUATION

The low over Baffin Island and the Davis Strait is almost stationary while the trough eastsoutheast to southeast Greenland is moving eastnortheast. The new low centre east of Newfoundland is moving rather quickly east. Ridge development ahead of the system has relaxed the northern portion of the Atlantic trough but the southern portion of the trough is still moving slowly east. The ridge over Scandinavia is moving eastwards. The blocking pattern over western Europe persists.

AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	46
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY † (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropo- pause		Average Press.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		98	-63.6	...	72	...	-73
		230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

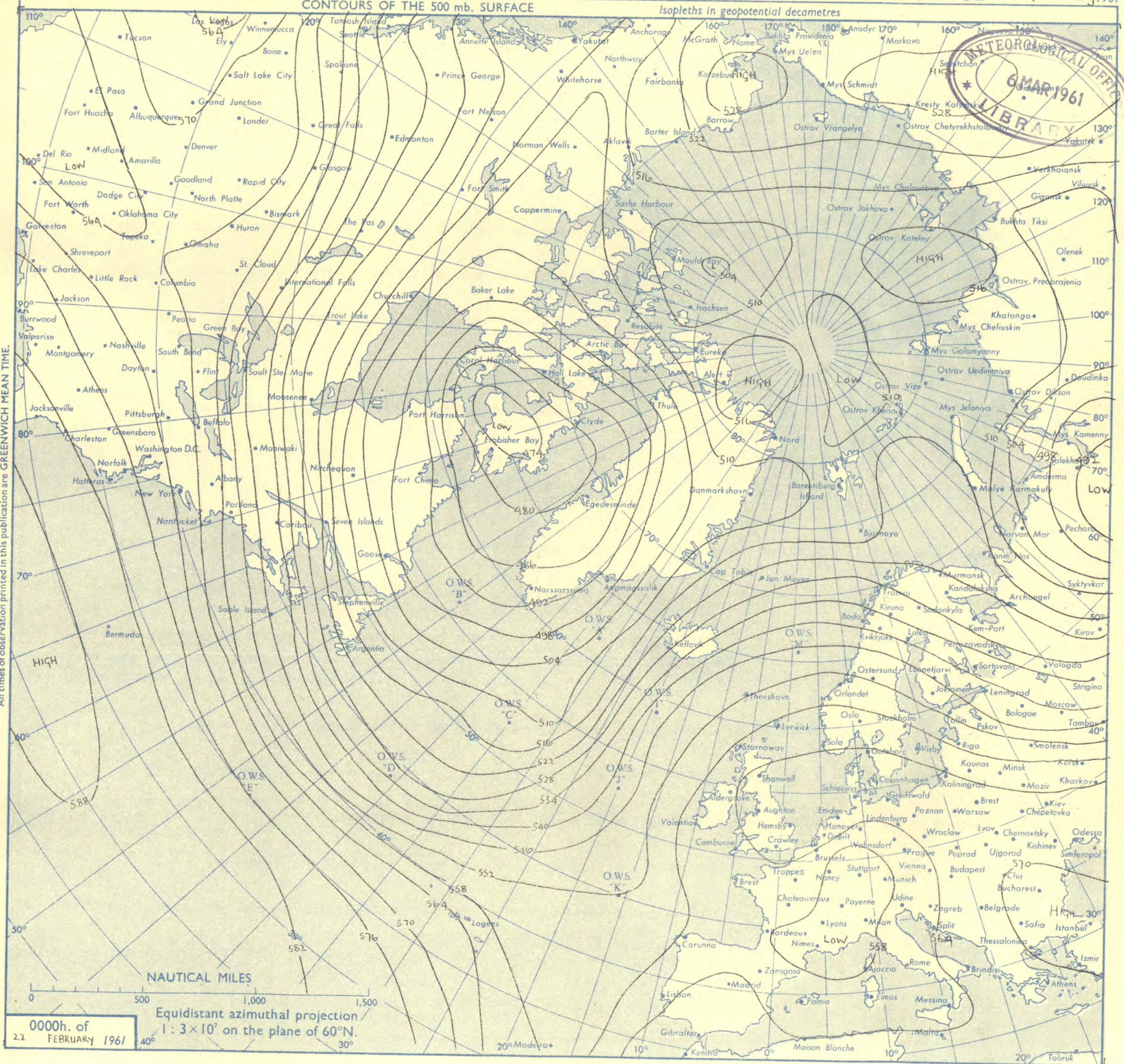
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



NAUTICAL MILES

Equidistant azimuthal projection
1:3 x 10⁷ on the plane of 60°N.0000h. of
22 FEBRUARY 1961

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C						
LERWICK 03005	212330	082	06	05	217	05	03	1531	02	05	3068	06	16	5602	26	31	7178	39	43	9085	55	++	11597	64	13380	60														
	221130	082	06	03	213	04	01	1529	04	07	3082	04	18	5637	24	37	7223	37	48	9150	51	++	11689	65	13465	59	16006	59	18215	64										
STORNOWAY 03026	212346	013	07	02	193	05	01	1499	03	16	3045	05	28	5600	24	45	7188	37	++	9118	52	++	11653	66	13425	60	15950	60	18165	61	20253	62								
	221138	013	07	03	186	05	01	1493	04	08	3055	03	37	5611	24	38	7201	35	++	9136	51	++	11672	66																
SHANWELL 03170	212330	005	04	02	225	04	01	1540	04	10	3095	03	21	5663	22	37	7263	35	47	9201	51	++	11735	65	13518	59	16057	60	18295	59	20397	61								
	221130	005	05	02	219	02	02	1531	04	10	3086	04	20	5645	23	33	7243	34	44	9193	49	++	11744	65	13520	58	16076	57	18326	58	20430	60	23627	59						
ALDERGROVE 03917	212330	077	06	03	206	05	00	1515	03	07	3070	04	16	5619	25	34	7204	37	46	9124	53	++	11636	66	13416	60	15945	59	18174	59										
	221130	077	06	01	194	05	01	1499	03	11	3060	03	24	5623	23	38	7213	36	++	9154	51	++	11672	67	13449	58	15996	58	18237	58	20341	58								
AUGHTON 03322	212330	056	03	02	225	01	01	1541	05	16	3101	03	24	5662	23	36	7260	35	47	9205	50	++	11730	67	13503	60	16037	60	18269	59										
	221130	056	03	01	216	01	02	1528	03	13	3077	05	21	5633	24	34	7225	36	47	9165	50	++	11700	67	13471	58	16017	59	18252	60										
HEMSBY 03496	212330	012	04	04	230	04	01	1556	04	12	3109	05	15	5666	23	32	7264	35	44	9213	49	++	11754	68	13504	60	16046	59												
	221130	012	07	05	221	05	02	1541	02	11	3077	08	25	5636	22	42	7233	35	50	9182	49	++	11744	64	13533	56	16088	58	18336	59	20436	60								
CRAWLEY 03774	212330	144	04	03	218	03	00	1540	04	10	3095	04	17	5655	23	33	7255	34	43	9206	49	++	11758	67	13527	59	16075	58	18320	59	20428	60	23616	60						
	221130	144	05	03	206	04	01	1517	00	11	3050	06	27	5602	23	38	7200	34	49	9155	49	++	11711	65	13502	59	16062	57	18314	60	20427	58								
CAMBORNE 03808	212330	088	07	05	201	06	04	1514	03	05	3068	04	22	5633	22	39	7238	34	49	9193	48	++	11763	65	13522	61	16064	59	18298	58	20416	60	23607	60						
	221130	088	08	05	189	07	02	1498	00	04	3043	06	20	5588	24	35	7179	35	46	9124	50	++	11666	64	13463	57	16010	58	18260	57										
VALENTIA 03953	212330	014	08	04	183	06	02	1492	03	06	3044	04	25	5600	23	36	7190	35	46	9140	51	++	11670	66	+++++	++	15960	60												
	221130	014	09	04	155	07	03	1468	03	05	3016	05	19	5570	23	39	7160	35	50	9100	50	++	11650	63																
Ocean Weather Station 'I' 59°00'N 19°00'W	220001		10	06	031	10	06	1362	02	00	2903	06	15	5470	21	36	7070	33	40	9020	50	++	11550	68	13340	57	15910	57												
	221200		10	07	000	10	07	1333	02	02	2879	04	23	5440	21	40	7040	35	++	8980	52	++	11480	64	13290	57	15850	58	+++++	++	20110	69	23110	76						
Ocean Weather Station 'J' 52°30'N 20°00'W	220001		11	08	000	11	08	1329	01	01	2875	06	19	5440	22	31	7050	34	38	9000	51	++	11510	66	13320	57	15880	59	18120	59	20210	61								
	221200		10	10	072	++	++	1263	04	04	2814	05	07	5380	22	27	6990	32	38	8940	50	++	11500	60	13340	52														

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 863++	027	017	824	006 ++ 03 941 01 01- 885 ++ 01- 858 02 04- 759 05- 10- 747 04- 11- 690 07- 18- 620 14- 21- 556 ++ 25- 393 40- 44- 301 55- 237 65- 134 60- 126 62- 105 61-	237	10560	65-
	02 864++	026	016	940 771	010 05 03 927 01- 02- 906 05 09- 837 03 07- 648 08- 25- 587 15- 30- 390 39- 50- 242 61- 209 63- 195 66- 182 63- 147 58- 100 59- 070 64-	195	11820	66-
STORNOWAY 03026	02 855++	024	022	932 786	999 ++ 01- 876 04- 06- 865 03 06- 852 ++ 16- 801 ++ 24- 745 02- 24- 722 05- 27- 703 05- 28- 648 08- 32- 464 ++ 48- 394 38- ++ 275 56- 200 66- 152 60- 037 63-	200	11653	66-
	05 355++	023	021	933 734	961 02 01- 875 03- 04- 853 04 06- 834 05 22- 797 03 ++ 774 03 ++ 511 23- 37- 402 35- 50- 322 48- 229 62- 203 67- 158 65- Temperatures suspect all levels	203	11580	67-
SHANWELL 03170	10 874++	028	027	763	021 ++ 01- 964 03 01 925 00 01- 899 03 06- 865 04 17- 845 ++ 08- 734 ++ 14- 681 05- 25- 419 32- 45- 379 39- 50- 287 53- 240 62- 207 65- 161 59- 100 60- 048 61- 038 59-	207	11550	65-
	02 863++	027	027	966 760	020 04 00 938 02- 05- 924 05 00 899 05 06- 778 01 17- 617 ++ 26- 517 21- 31- 358 40- 49- 268 55- 192 67- 155 58- 100 57- 057 60- 030 59-	192	11980	67-
ALDERGROVE 03917	04 856++	025	016	925 755	992 05 00 881 04- 06- 864 03 04- 855 ++ 07- 817 03 12- 757 00 13- 559 18- 28- 500 25- 34- 393 38- 47- 297 54- 256 61- 226 65- 208 66- 167 60- 115 61- 071 59- 058 61-	208	11350	66-
	04 564++	024	014	933 733 046	933 00 02- 896 ++ 04- 877 04- 05- 862 02 04- 852 ++ 11- 827 04 14- 764 02 23- 575 15- 32- 512 21- 36- 407 36- 49- 391 37- ++ 345 43- 267 58- 227 65- 208 67- 194 67- 157 58- 092 58- 075 60- 069 58- 055 61- 049 57- 046 60-	208	11420	67-
AUGHTON 03322	02 855++	028	021	977 748	011 02 00 945 02- 03- 84 ++ 05- 926 05 04- 892 ++ 11- 851 05 16- 719 02- 24- 653 ++ 25- 518 21- 32- 448 28- 40- 372 39- 50- 211 68- 188 67- 164 59- 060 61-	211	11400	68-
	02 865++	027	020	982 781	015 ++ 02- 853 02- 04- 945 00 02- 925 05 03- 917 05 07- 871 04 10- 840 03 14- 822 02 09- 724 ++ 20- 607 12- 24- 367 40- ++ 204 67- 187 67- 171 61- 126 58- 060 59-	204	11580	67-
HEMSBY 03496	46 862++	029	027	773	016 03 01 010 ++ 00 981 ++ 02 958 06 00 940 06 04- 903 ++ 08- 849 04 12- 837 05 14- 708 05- 15- 529 19- 28- 359 40- 48- 269 55- 194 69- 144 59- 100 59-	194	11940	69-
	02 00900	027	025	820	007 05 02 934 03 02- 914 04 04- 873 04 07- 806 01- 16- 750 05- 19- 695 08- 25- 680 07- 24- 602 12- 32- 400 35- 50- 230 60- 192 65- 149 56- 126 59- 085 57- 047 59-	192	12000	65-
CRAWLEY 03774	03 664++	027	009	760	000 ++ 01- 993 02 01- 975 ++ 00- 960 05 01 915 ++ 06- 894 05 07- 790 ++ 17- 762 00 14- 571 ++ 25- 357 ++ 49- 312 47- 244 59- 191 68- 159 59- 030 60-	191	12040	68-
	02 854++	026	008	943 841	997 03 00 937 00 01- 919 03 00 874 02 07- 776 04- 20- 743 04- 24- 653 09- 30- 481 25- 40- 394 35- 50- 269 55- 228 61- 197 65- 179 50- 158 58- 103 57- 078 57- 071 60- 052 58- 032 60-	197	11810	65-
CAMBORNE 03808	02 854++	025	014	893 758	851 03- 04- 839 04 07- 814 04 19- 810 ++ 24- 795 ++ 17- 692 05- 23- 657 07- 33- 542 ++ 34- 392 35- 50- 288 50- 192 67- 151 61- 121 58- 079 60- 067 57- 030 60-	192	12000	67-
	02 857++	023	012	912 789	000 07 02 935 01 00 861 03- 03- 842 02 07- 838 02 12- 824 ++ 15- 732 03- 20- 685 08- 22- 678 07- 22- 571 17- 28- 420 33- 43- 373 39- 50- 234 62- 204 65- 153 57- 123 60- 054 58-	204	11540	65-
VALENTIA 03953	01 35600	022	021	915 750	853 04- 06- 824 02 10- 765 01 19- 518 22- 35- 274 55- 216 65- 187 66- 161 64- 153 60- 102 60- 056 60-	216	11200	65-
	01 58500	019	017	895 760	005 08 04 834 04- 08- 823 03 06- 786 02 21- 638 11- 21- 372 40- 243 60- 207 64- 162 58- 156 55- 120 55- 107 59-	207	11400	64-
Ocean Weather Station 'I' 59°00'N 19°00'W	52407	003	003	820	928 05 03 908 05 02 769 03- 05- 748 03- 07- 657 07- 23- 523 18- 36- 454 27- 38- 411 31- 39- 226 65- 195 68- 182 58- 125 55- 096 58-	200	11500	68-
	15 79400	999	999	820	999 10 07 862 02 00 832 01 04- 766 03- 07- 743 01- 20- 518 19- 38- 371 39- 340 43- 266 60- 216 69- 175 56- 094 58-	216	11000	69-
Ocean Weather Station 'J' 52°30'N 20°00'W	01 36402	000	000	788	947 06 04 900 04 02 884 03 01- 852 ++ 00 847 01 02- 825 02 07- 792 ++ 11- 751 ++ 12- 725 ++ 18- 694 ++ 18- 677 07- 24- 625 09- 28- 554 15- 35- 505 22- 32- 455 27- 31- 425 30- 34- 358 40- 45- 224 68- 202 68- 192 60- 126 55- 102 60- 092 60- 068 59- 060 63- 056 60- 046 61-	224	10800	68- 102 15800 60-
	61 6732+	991	991	790	982 10 08 922 06 04 837 03 02 657 ++ 10- 602 13- 17- 415 30- 35- 355 40- 47- 334 44- 264 57- 203 63- 196 55- 124 52- 108 54-	203	11400	63-

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	212330	T	180 22	+++ ++	190 24	210 27	200 26	210 27	240 28	240 32	250 36	260 43	260 48	260 40	270 35						
	220530	P	170 20	+++ ++	190 26	210 27	210 25	220 25	230 25	240 33	250 29	260 32	260 29	270 29	260 30	270 28	260 45				
	221130	T	180 20	+++ ++	190 30	200 36	210 30	210 30	220 26	230 23	240 22	250 23	260 32	260 22	250 27	260 22					
	221730	P	180 26	+++ ++	200 34	200 36	200 36	200 31	200 25	210 22	210 18	260 19	260 34	260 23	250 18	260 24	260 33				
STORNOWAY 03026	212346	T	200 20	+++ ++	200 29	200 27	200 31	210 32	210 29	210 30	230 36	220 43	230 50	240 49	240 31	250 28	260 31	270 40			
	220540	P	200 20	+++ ++	210 33	210 27	210 33	200 30	210 32	210 31	220 33	230 36	230 37	240 31							
	221138	T	190 21	190 30	200 38	200 34	190 30	190 29	190 35	190 35	210 39	230 46	230 45	230 39							
	221740	P	190 20	+++ ++	180 31	190 41	190 40	190 33	190 39	190 35	200 38	210 45	220 47	220 32	220 23	230 19	250 28	250 35			
SHANWELL 03170	212330	T	000 00	+++ ++	220 12	200 26	200 28	210 23	210 20	220 18	230 23	240 36	240 41	250 39	240 24	250 25	260 26	280 25			
	220530	P	000 00	+++ ++	170 10	170 17	170 21	190 21	180 19	190 15	220 19	240 30	260 46	250 28	250 19	250 23					
	221130	T	160 06	+++ ++	180 18	180 31	180 28	190 26	180 22	180 20	210 15	230 18	250 21	260 29	240 16	240 21	250 23	270 26			
	221730	P	140 05	+++ ++	160 17	160 20	150 25	160 28	160 23	170 20	170 16	240 11	250 16	250 20	250 14	250 15	250 23	260 24			
ALDERGROVE 03917	212330	T	130 10	+++ ++	180 16	180 23	190 28	190 25	190 21	190 21	200 24	230 39	230 50	220 39	230 23	240 26	260 19				
	220530	P	130 11	+++ ++	180 18	180 22	180 22	180 22	180 24	180 23	200 27	230 31	220 38	220 37	230 22	240 21	250 21	240 21			
	221130	T	150 12	+++ ++	160 21	170 28	170 30	170 31	170 32	180 29	180 27	190 34	210 41	210 36	210 29	230 23	240 14	260 19			
	221730	P	130 10	+++ ++	180 20	170 27	160 34	160 25	160 28	160 26	160 31	180 28	210 35	210 25	220 21	240 16					
AUGHTON 03322	212330	T	130 06	150 13	150 13	160 14	160 16	160 13	180 14	180 16	230 20	220 20	230 29	230 27	240 21	260 20	260 20				
	220530	P	140 06	+++ ++	170 16	170 20	160 18	160 18	140 13	190 17	210 09	200 14	230 20	230 21	250 12	240 18	250 18	260 22			
	221130	T	120 12	+++ ++	150 19	150 21	140 20	140 19	140 23	140 16	110 13	160 07	240 05	250 14	200 13	250 13	250 16				
	221730	P	090 05	+++ ++	150 19	150 23	130 23	120 18	110 25	100 24	100 21	070 13	020 06	190 02	260 09	220 12	250 15	250 21			
HEMSBY 03496	212330	T	100 09	+++ ++	120 10	120 13	110 17	100 13	100 08	080 11	050 08	030 08	330 11	320 08	210 05	P290 13	270 17				
	220530	P	090 10	+++ ++	080 16	100 17	090 25	090 23	080 20	070 19	050 23	030 17	360 20	340 11	300 07	260 11	280 17				
	221130	T	120 12	+++ ++	130 22	130 23	110 27	100 31	070 37	070 37	060 33	050 34	070 35	070 24	030 03	320 12	300 12				
	221730	P	110 08	+++ ++	150 22	130 28	130 34	130 33	120 46	100 45	080 43	050 42	040 45	030 15	320 08	240 05	270 09	270 19			
CRAWLEY 03774	212330	T	060 07	+++ ++	120 13	110 13	110 15	100 12	110 15	090 21	080 13	080 12	070 06	100 08	180 05	280 11	260 11	270 17	270 21	P280 29	
	220500	P	060 08	+++ ++	090 11	100 20	090 14	080 18	070 16	070 19	070 23	050 17	040 14	010 07	020 18	230 07	270 12				
	221130	T	090 07	+++ ++	100 16	090 15	070 16	060 21	040 30	040 30	050 31	040 23	030 22	040 16	220 03	270 05	250 12	250 13			
	221730	P	100 03	+++ ++	110 14	120 20	110 20	110 25	100 29	060 33	040 40	030 44	030 37	020 18	300 06	200 03	250 07	270 16			
CAMBORNE 03808	212330	T	060 07	+++ ++	140 12	150 14	140 17	130 18	140 20	130 23	140 32	150 33	160 36	160 36	P210 15	230 12	220 17				
	220530	P	090 08	+++ ++	140 13	160 15	160 15	150 21	150 27	150 29	140 32	150 35	150 36	160 26	240 09	220 08	240 10				
	221130	T	000 00	+++ ++	150 11	150 12	160 16	150 19	140 26	140 34	130 34	140 34	150 34	170 16	170 14	230 10	220 13				
	221730	P	180 07	+++ ++	160 06	240 08	190 09	160 13	140 27	130 30	120 34	120 32	140 31	160 30	240 11	200 07	230 15	260 14			
VALENTIA 03953	212330	T	130 10	140 16	+++ ++	190 20	+++ ++	170 19	+++ ++	180 24	180 24	170 31	+++ ++	180 41	+++ ++	220 20					
	221130	T	150 14	180 24	+++ ++	170 27	+++ ++	170 27	+++ ++	160 38	170 37	180 47	+++ ++	180 27							
Ocean Weather Station 'I' 59°00'N 19°00'W	220001	T	170 37	170 38	+++ ++	190 61	+++ ++	200 53	+++ ++	200 54	210 58	200 32									
	220600	P	180 40	+++ ++	200 72	190 62	190 60	200 59	230 58												
	221200	T	170 41	170 41	+++ ++	190 66	+++ ++	200 66	+++ ++	190 69	190 63										
	221800	P	135 40	+++ ++	180 62	180 70	180 58	170 64	180 70	180 84											
Ocean Weather Station 'J' 52°30'N 20°00'W	220001	T	190 37	+++ ++	190 60	200 57	190 61	190 62	190 57	220 56	200 50	200 52	200 54	210 51	220 39	220 31	230 25				
	220600	P	180 40	+++ ++	190 70	190 66	190 60	190 70	190 62	200 64	190 70	180 79	180 70	190 49	190 75						
	221200	T	180 40	+++ ++	180 66	200 59	200 47	190 47	180 56	180 67	190 73	200 84	200 89	210 64							
	221800	P	270 10	+++ ++	230 18	230 28	230 30	210 30	180 59	130 72	190 73	180 88	190 102	190 79	200 22	210 50					
LARKHILL 03743	220730	P	070 05	+++ ++	120 11	130 14	120 15	100 18	100 15	110 12	080 16	090 14	080 08	150 05	280 03	240 08	250 11	260 16			
	221122	P	000 00	+++ ++	110 11	120 11	100 14	090 15	080 17	070 17	060 19	070 14	060 12	030 05	130 06	250 09	240 09				

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :— Inversion Levels :—														
Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :— Inversion Levels :—														
Isothermal Levels :—														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.												Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2		

STATION		MAX. WIND
LERWICK 03005	112mb 270 35 080mb 260 24 08100m 240 20 20100m 270 45	
STORNOWAY 03026	040mb 270 40 171mb 240 35 22200m 280 46	
SHANWELL 03170	040mb 270 32 031mb 260 34 08140m 180 07 21250/0	
ALDERGROVE 03917	062mb 270 19	
AUGHTON 03322	435mbs 210 18 21900m 260 27 22800m 260 16	
HEMSBY 03496	P20390m 240 26 10210m 270 07 20400m 280 16 052mb 330 11 10980/1 12020/4	
CRAWLEY 03774	P28200m 280 32 032mb 290 19 04700/5 11780/1	
CAMBORNE 03808	P20100m 240 16 11850/1 13350/2 060mb 220 15	
VALENTIA 03953	824mb 180 21 765mb 180 18 153mb 200 25 056mb 210 16 786mb 180 23 638mb 160 29 243mb 180 46 156mb 210 35 107mb 190 16	
Ocean Weather Station 'I' 59°00'N 19°00'W	908mb 190 60 748mb 200 47 657mb 200 60 00300m 180 55 00600m 190 65 743mb 200 70 518mb 190 72 340mb 190 64 00300m 160 53 00600m 170 66	190 72 05400m 180 84 05400m
Ocean Weather Station 'J' 52°30'N 20°00'W	057mb 230 25 00690/0 03340/1 03660/0 04420/1 08880/0 09300/1 10230/1 13320/0 165mb 210 62 16800m 220 39 03250/0 04400/0 13240/1 13950/1	190 68 01940m 180 90 09100m 200 97 09500m 180103 10630m
LARKHILL 03743	11330/4 10880/1 12430/8	

NOTES ON THE AEROLOGICAL SITUATION

With the marked increase in the southerly flow over the eastern Atlantic there has been considerable ridge development over the Norwegian Sea and a strengthening of the blocks over western Europe. A small low is moving north over France. The axis of the westerly flow entering the Atlantic from the Great Lakes area has moved south towards the Azores and minor features are moving rapidly around the broad trough on the northern side of these westerlies.

AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	46
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropopause		Average Press.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		98	-63.6	...	72	...	-73
		230	-58.2	350	...	-52	...

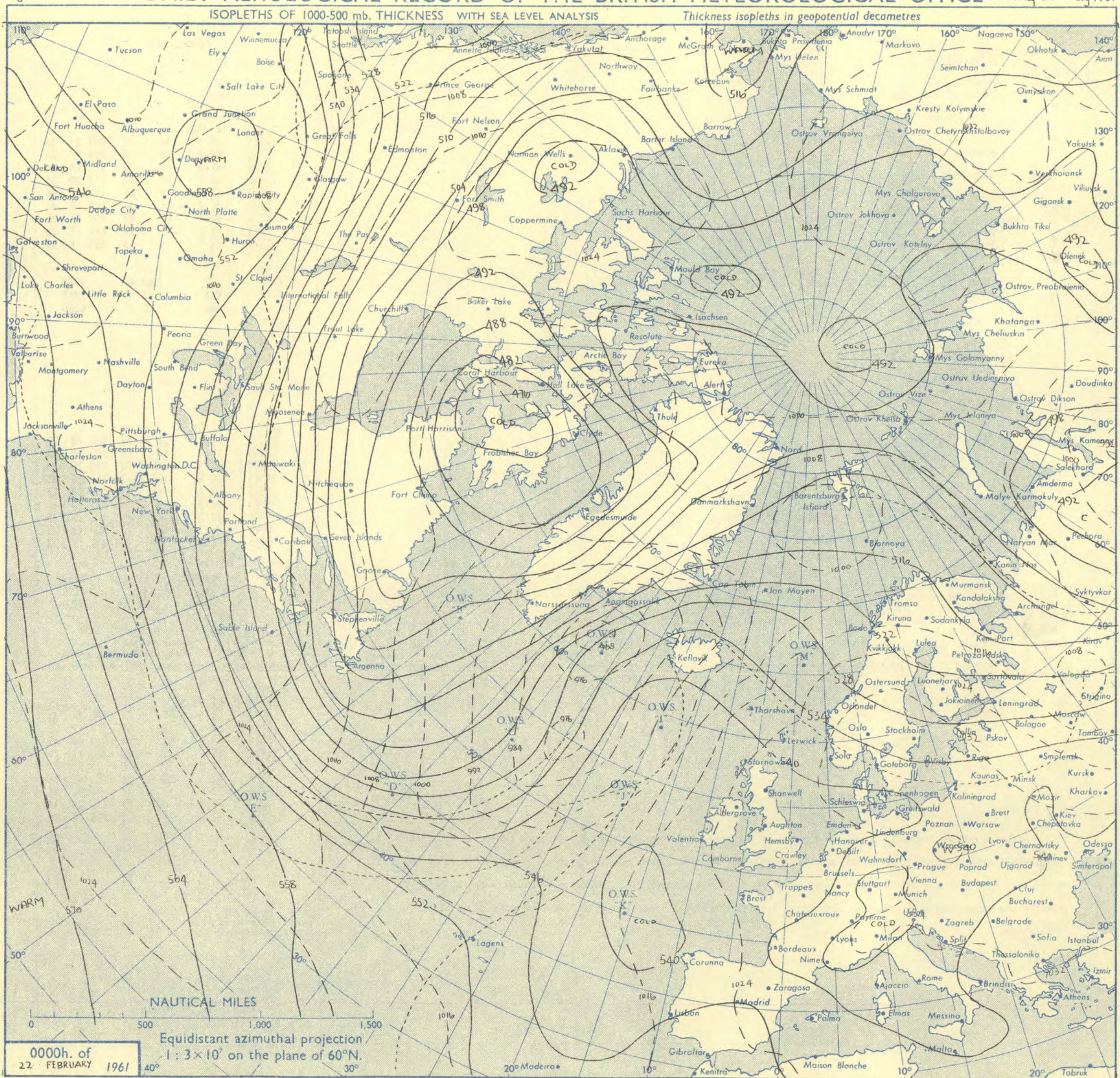
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

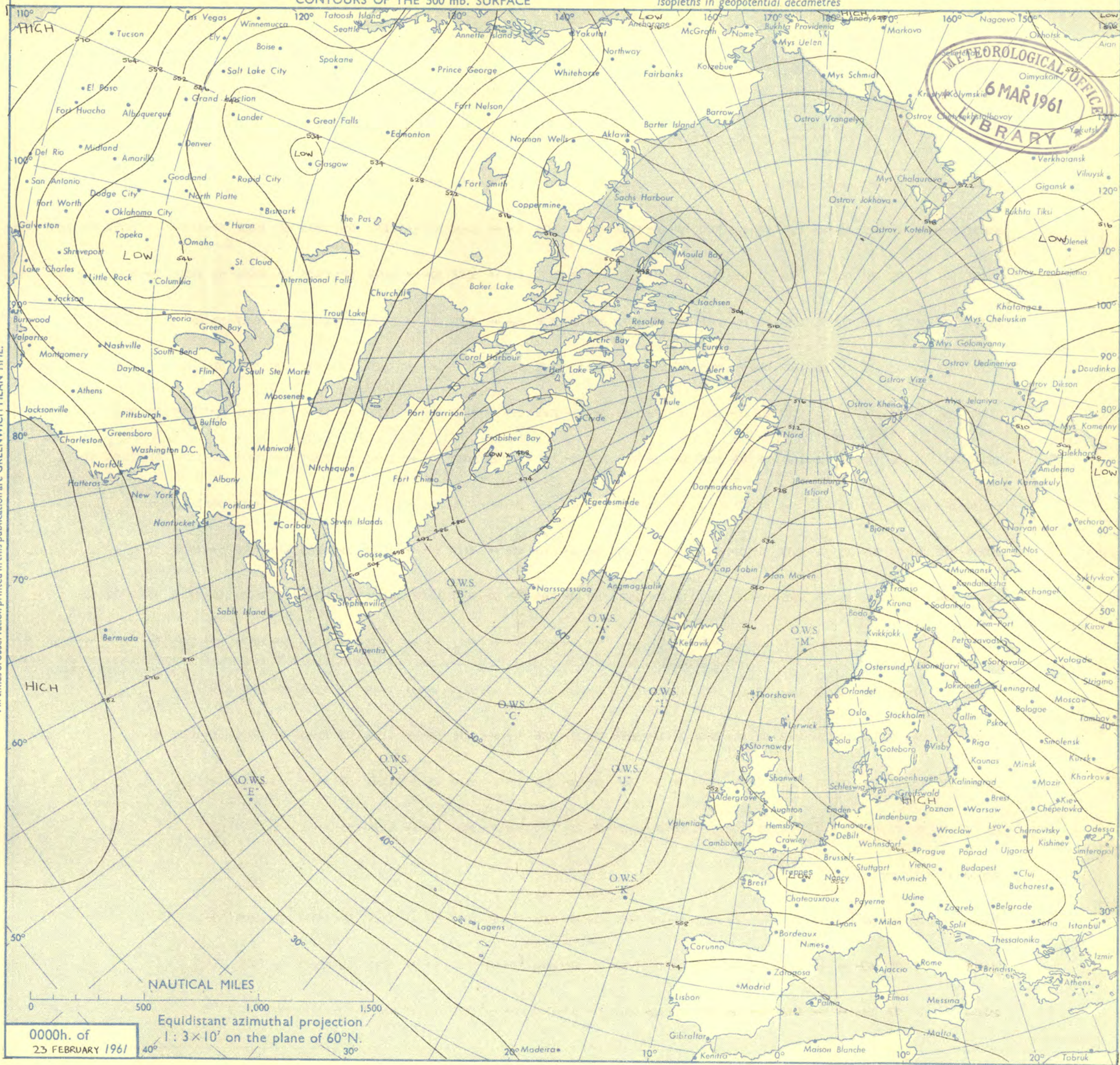
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



0000h. of
23 FEBRUARY 1961

Equidistant azimuthal projection
1:3 x 10⁷ on the plane of 60°N.

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C			
LERWICK 03005	222347	082	05	03	213	04	02	1538	05	10	3089	06	17	5631	25	34	7216	36	46	9151	51	++	11680	68	13432	61														
	231132	082	06	04	214	04	02	1537	04	18	3084	07	35	5624	25	43	7204	37	++	9133	51	++	11663	65	13451	59	15996	61	18218	60										
STORNOWAY 03026	222335	013	06	02	174	04	00	1491	04	08	3042	05	21	5600	23	33	7190	36	46	9126	51	++	11663	66	13415	61	15952	61												
	231145	013	07	01	167	04	02	1474	01	07	3011	07	22	5561	23	39	7150	36	++	9092	50	++	11618	69	13395	59														
SHANWELL 03170	222330	005	02	01	213	04	00	1528	02	12	3074	03	28	5640	23	46	7235	35	++	9185	49	++	11732	65	13514	58	16059	58	18300	60	20397	61	23577	61						
	231130	005	06	05	208	04	03	1516	00	07	3048	08	23	5591	23	39	7181	36	++	9117	49	++	11681	62	13495	56	16066	57	18317	58	20434	58	23662	55						
ALDERGROVE 03917	222330	077	05	02	181	04	02	1485	05	06	3020	05	19	5579	23	41	7176	34	++	9131	48	++	11683	66	13465	59	16017	57												
	231130	077	08	03	153	06	01	1460	04	05	2983	08	23	5513	25	40	7095	36	49	9042	48	++	11597	65	13377	59	15918	61												
AUGHTON 03322	230020	056	04	02	209	05	02	1518	00	06	3051	08	25	5591	23	43	7184	35	++	9135	48	++	11705	64	13500	58	16051	60	18287	59	20393	60								
	231130	056	07	04	172	05	01	1490	01	07	3018	10	21	5528	27	38	7098	39	49	9022	50	++	11595	58	13421	56	15973	59	18200	61	20296	61								
HEMSBY 03496	222330	012	06	05	219	08	03	1542	00	07	3067	09	20	5578	27	41	7148	39	49	9071	51	++	11650	57	13476	57	16031	58	18270	59										
	231130	012	07	06	179	05	01	1498	01	08	3018	10	20	5509	30	34	7063	41	++	8973	50	++	11601	53	13455	54	16022	59	18269	57										
CRAWLEY 03774	222330	144	04	03	199	05	03	1509	03	05	3027	11	19	5521	29	40	7093	37	50	9034	49	++	11634	58	13461	57	16020	58	18264	58	20374	59								
	231130	144	06	05	164	05	03	1470	04	05	2982	12	18	5462	32	38	6995	42	++	8927	46	++	11576	53	13423	55	15979	57	18235	58	20350	59	23574	56						
CAMBORNE 03808	222330	088	07	05	175	06	03	1489	02	05	3008	09	18	5532	24	33	7132	32	42	9110	45	++	11709	60	13528	56	16075	59												
	231130	088	08	04	121	07	04	1447	01	04	2975	09	11	5498	26	31	7076	36	45	9016	50	++	11556	62	13358	58	15900	61	18123	61										
VALENTIA 03953	230001	014	10	07	121	09	07	1442	01	05	2973	07	36	5540	21	51	7150	32	++	9110	49	++	11660	66	++++	++	15990	59												
	231130	014	09	07	060	09	07	1384	01	00	2923	07	08	5470	23	25	7080	32	36	9040	49	++	11580	63	++++	++	15970	57												
Ocean Weather Station 'I' 59°00'N 19°00'W	222300	No ascent made																																						
	231200		05	04	030	++	++	1289	01	01	2835	05	09	5390	22	28	6990	35	43	8930	50	++	11480	53	13330	55	15920	55												
Ocean Weather Station 'J' 52°30'N 20°00'W	230001		08	04	027	++	++	1289	02	04	2803	12	16	5320	25	31	6910	36	42	8850	50	++	11420	54	13280	51	15890	55												
	231200		10	07	054	++	++	1265	02	04	2773	13	15	5240	32	35	6790	42	++	8670	55	++	11310	50	13170	54														

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 864++	026	016	778	951 01 00 943 07 02 925 ++ 12- 896 08 15- 879 ++ 11- 823 ++ 10- 807 ++ 16- 722 ++ 23- 699 ++ 17- 680 ++ 24- 625 ++ 21- 593 ++ 25- 497 26- 34- 373 40- 50- 251 60- 216 66- 198 68- 186 68- 140 60-	198	11740	68-
	02 854++	026	016	786	001 04 02 940 01 00 909 06 11- 848 04 18- 775 ++ 29- 598 ++ 40- 571 ++ 36- 542 20- 38- 432 34- 49- 247 61- 206 66- 178 60- 131 57- 100 61- 054 63-	206	11480	66-
STORNOWAY 03026	05 00900	022	020	778	948 01 04- 876 05 10- 830 04 08- 755 02- 12- 698 ++ 21- 679 ++ 19- 573 15- 26- 451 30- 40- 369 40- 49- 265 57- 222 64- 197 66- 173 67- 137 58- 103 60- 073 60-	197	11750	66-
	05 00900	021	019	938 818	012 05 01- 924 01- 05- 898 01- 06- 885 01 07- 825 00 10- 736 05- 18- 637 10- 25- 563 17- 32- 497 23- 38- 435 32- 47- 408 ++ 49- 351 42- 205 69- 191 69- 169 59- 108 61-	205	11470	69-
SHANWELL 03170	02 873++	027	026	808	010 04 00 957 00 02- 944 01 03- 926 01 06- 911 04 04- 892 ++ 08- 750 03- 24- 726 02- 25- 690 04- 30- 426 32- 50- 219 64- 204 66- 150 58- 100 58- 030 61-	204	11600	66-
	10 863++	026	025	871	927 00 01- 915 01 00 829 00 10- 818 01- 13- 566 17- 33- 410 35- 50- 336 46- 296 49- 220 63- 200 62- 168 56- 100 57- 034 58- 030 55-	220	11080	63-
ALDERGROVE 03917	04 756++	023	013	911	963 02 01 937 02 01- 845 06- 07- 829 02- 07- 816 ++ 09- 800 01- 08- 780 ++ 07- 772 03- 03- 09- 765 ++ 12- 745 ++ 16- 738 03- 17- 655 08- 25- 429 31- 48- 288 50- 210 67- 187 65- 170 60- 099 57- 073 60-	210	11390	67-
	04 45600	019	009	912	000 06 01 940 ++ 01- 920 ++ 03- 887 02- 04- 844 05- 06- 828 ++ 06- 792 04- 12- 745 06- 18- 672 ++ 26- 557 19- 34- 473 29- 43- 377 39- 347 44- 327 43- 208 66- 187 65- 170 60- 141 58- 110 59- 095 62- 079 60-	208	11310	66-
AUGHTON 03322	02 855++	026	019	915 870	015 ++ 00 002 05 01 893 02- 03- 881 00 02- 833 01- 10- 775 02- 15- 630 14- 35- 594 13- 34- 451 30- 48- 384 36- 279 52- 208 63- 195 64- 168 58- 035 60-	195	11870	64-
	05 00900	021	014	840	978 03 00 968 ++ 01 932 04 01- 878 02 06- 593 19- 32- 579 19- 32- 467 31- 41- 389 40- 49- 315 49- 281 51- 258 56- 222 61- 206 61- 198 57- 158 55- 131 59- 046 62-	222	10940	61-
HEMSBY 03496	10 00900	027	025	858	013 09 05 981 ++ 02 867 ++ 04- 855 00 06- 818 02- 11- 746 ++ 16- 692 10- 22- 640 14- 30- 543 24- 40- 525 25- 41- 423 36- 46- 389 40- 40- 50- 253 57- 227 59- 173 56- 065 60-	227	10860	59-
	10 00900	022	020	863	011 05 03 978 06 01 909 03 05- 758 07- 15- 724 08- 17- 665 ++ 22- 498 30- 34- 407 40- 45- 317 50- 178 53- 102 60- 070 57- 289 51-	289	09200	51-
CRAWLEY 03774	02 756++	025	007	894	989 06 03 837 04- 06- 814 03- 07- 760 06- 15- 495 30- 41- 487 29- 40- 402 37- 50- 362 40- 285 51- 236 56- 230 55- 197 58- 183 55- 117 58- 050 59-	197	11730	58-
	28 564++	020	003	917	996 05 03 960 ++ 02 824 05- 06- 793 ++ 07- 768 07- 11- 713 ++ 17- 581 22- 29- 441 ++ 46- 424 42- 403 41- 237 51- 194 54- 160 54- 109 60- 098 57- 046 59- 030 56- Pressure suspect above 100mb	424 194	06590 11780	42- 54-
CAMBORNE 03808	02 857++	022	011	880	932 03 01 880 00 04- 797 07- 08- 782 04- 06- 732 07- 12- 719 08- 16- 580 19- 30- 560 18- 31- 533 ++ 34- 479 26- 33- 461 28- 36- 388 33- 45- 343 39- 50- 238 57- 208 62- 151 56- 103 60- 078 58-	208	11450	62-
	03 4557+	015	004	837	969 04 01 952 ++ 00 939 07 04 868 ++ 00 850 01 04- 803 03- 05- 792 ++ 05- 751 ++ 16- 713 ++ 11- 677 10- 12- 652 ++ 16- 612 16- 19- 578 ++ 23- 572 18- 25- 562 19- 29- 520 ++ 32- 495 ++ 32- 452 33- 38- 445 32- 39- 373 39- 50- 230 64- 217 65- 175 58- 131 58- 104 61- 065 61-	217	11060	65-
VALENTIA 03953	03 724++	015	013	870	942 05 04 800 05- 09- 777 01- 06- 762 02- 22- 739 03- 28- 712 07- 32- 681 07- 39- 604 11- 43- 509 21- 51- 477 22- 52- 288 51- 209 66- 191 66- 172 59- 135 59- 124 56- 100 59- 081 61-	209	11400	66-
	61 6542+	007	006	825	910 02 01 892 04 03 836 00 01- 712 06- 07- 613 13- 15- 546 19- 20- 499 23- 25- 436 29- 32- 423 29- 33- 396 32- 36- 348 41- 246 59- 216 67- 186 59- 164 56- 117 57- 110 55- 084 58-	216	10900	67-
Ocean Weather Station 'I' 59°00'N 19°00'W	63 6742+	996	996	800	926 02 00 905 03 00 798 00 04- 645 09- 12- 388 36- 45- 246 63- 225 64- 210 53- 173 52- 140 56- 097 54- 59- 12- 388 36- 45- 246 63- 225 64- 210 53- 173 52- 140 56- 097 54-	246	10200	63-
Ocean Weather Station 'J' 52°30'N 20°00'W	25 784++	997	997	885	988 ++ 02- 915 01 02- 840 03- 05- 809 05- 08- 782 06- 11- 769 ++ 12- 668 14- 17- 641 15- 20- 621 17- 23- 607 16- 21- 587 17- 22- 545 20- 24- 369 40- 44- 259 58- 228 61- 214 56- 150 51- 134 55- 111 53- 093 57- 074 55-	228 093	10500 16300	61- 57-
	15 6246+	993	993	882	966 06 04 775 ++ 10- 757 ++ 13- 735 11- 14- 725 ++ 13- 510 31- 34- 449 37- 40- 420 40- 45- 331 53- 324 52- 294 55- 250 50- 110 53-	294	08800	55-

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb	750mb	700mb	600mb	500mb	400mb	300mb	250mb	200mb	150mb	100mb	70mb	50mb	30mb	20mb	10mb
						1500m	2100m	3000m	4200m	5400m	7200m	9000m	10500m	12000m	14100m	15900m	18300m	20700m	23700m	26400m	30900m
LERWICK 03005	222347	T	170 29	+++ ++	180 34	180 30	180 30	180 31	190 27	190 21	220 12	240 13	250 21	260 20	240 19	P240 22	280 24				
	230530	P	170 30	+++ ++	190 32	190 30	190 28	190 27	190 26	190 19	150 13	230 07	260 15	240 14	230 14	260 15					
	231132	T	170 24	+++ ++	190 29	190 29	180 27	180 28	170 29	170 28	150 18	100 10	040 10	280 06	210 15	220 19	250 20				
	231730	P	160 20	+++ ++	160 22	170 23	170 22	160 28	160 27	150 27	140 21	100 23	080 20	150 09	200 13	220 16					
STORNOWAY 03026	222335	T	180 16	+++ ++	190 27	180 35	180 32	180 32	170 38	170 37	190 39	200 35	210 40	190 25	220 28	220 25	P240 22				
	230530		No winds reported																		
	231145	T	150 14	+++ ++	180 43	180 46	180 50	180 49	160 42	150 45	150 39	140 25	170 13	180 17	200 23						
	231730	P	130 16	+++ ++	170 34	170 44	170 42	160 40	150 45	160 39	150 32	140 34	100 21	180 23	190 20	220 22					
SHANWELL 03170	222330	T	180 04	+++ ++	180 28	170 28	160 31	160 34	160 26	140 21	130 18	100 09	340 01	250 10	210 11	240 17	240 20	260 24	270 40		
	230530	P	130 02	+++ ++	180 26	180 32	170 34	160 41	150 35	140 33	120 27	090 24	070 15	260 06	230 15	220 12					
	231130	T	120 10	130 17	140 27	160 34	160 33	150 37	140 40	130 43	120 37	100 35	090 26	090 11	200 12	210 16	240 12	250 24	260 41	P260 37	
	231730	P	100 05	+++ ++	120 22	130 27	130 26	130 29	140 32	130 31	140 23	120 16	090 11	190 11							
ALDERGROVE 03917	222330	T	120 15	+++ ++	170 24	170 28	150 27	140 25	140 30	140 29	140 25	150 17	160 15	200 18	210 22	220 21					
	230530	P	130 13	+++ ++	160 28	160 27	160 42	150 44	140 37	130 36	110 22	100 15	160 06	200 16	200 18						
	231130	T	120 18	+++ ++	150 35	150 44	150 47	150 47	150 45	150 27	130 29	070 15	070 08	120 12	190 23	210 20					
	231730	P	130 17	+++ ++	150 37	160 43	150 43	150 37	160 34	160 20	160 17	270 12	130 09	200 16	210 20	220 22	220 18				
AUGHTON 03322	222330	P	110 05	+++ ++	150 26	150 29	150 28	140 26	130 41	120 36	090 29	070 30	040 20	090 07	210 14	230 14	240 10				
	230530	P	100 08	+++ ++	150 30	150 38	140 39	140 37	140 35	120 32	100 38	080 27	050 26	060 11	230 10	210 09					
	231130	T	090 10	+++ ++	140 32	140 35	140 31	140 27	120 23	120 33	110 39	090 21	060 20	070 11	240 08	200 14	240 16	250 18			
	231730	P	000 00	+++ ++	130 25	120 26	120 23	120 20	120 15	110 18	090 26	360 13	320 09	270 07	210 15	220 14	230 16	260 12			
HEMSBY 03496	222330	T	100 12	+++ ++	130 21	130 26	130 30	130 30	130 28	110 40	100 45	080 46	070 44	080 20	190 04	260 10					
	230530	P	100 08	+++ ++	110 16	110 24	120 26	110 35	110 34	100 35	100 49	090 46	080 36	090 06	210 09	280 01	230 13				
	231130	T	100 11	+++ ++	110 18	100 21	100 20	100 24	110 28	100 41	100 58	100 53	090 34	090 10	180 05	250 12					
	231730	P	140 10	+++ ++	100 12	090 13	090 15	080 17	080 21	080 23	080 26	340 09	250 18	310 04	220 11	230 11	240 15				
CRAWLEY 03774	222330	T	060 03	+++ ++	120 25	120 28	110 26	110 25	120 37	110 43	080 46	050 42	040 33	020 14	020 05	230 08	240 11				
	230530	P	000 00	+++ ++	110 15	110 17	110 26	110 33	100 31	100 44	090 48	060 24	020 15	350 10	270 11	240 05	240 09	250 14			
	231130	T	000 00	+++ ++	100 13	090 21	090 21	090 18	060 16	080 16	060 10	320 21	340 13	280 09	290 02	240 13	P230 10	260 12	270 19	260 27	
	231730	P	000 00	+++ ++	170 01	060 09	070 07	300 05	310 15	300 21	280 66	290 67	300 48	290 16	230 12	240 10					
CAMBORNE 03808	222330	T	130 07	+++ ++	140 08	240 02	200 09	180 12	180 20	120 28	100 37	110 24	110 22	190 12	230 10	220 11					
	230530	P	130 18	+++ ++	130 18	150 09	200 12	240 12	260 26	200 12	070 08	010 16	360 12	280 06	240 15	240 12					
	231130		No winds reported																		
	231730	P	120 25	+++ ++	170 27	220 25	220 19	220 19	230 20	240 20	260 29	240 28	230 30	220 22	220 21	220 18					
VALENTIA 03953	230001	T	150 16	150 21	+++ ++	160 34	+++ ++	160 33	+++ ++	140 34	170 34	170 29	+++ ++	170 31	+++ ++	220 18					
	231135	P	135 30	+++ ++	140 46	160 49	170 40	180 32	200 34	200 25	190 32	180 39	180 40	180 36	190 36	190 20					
Ocean Weather Station 'I' 59°00'N 19°00'W	222300		No winds reported																		
	230600	P	180 05	+++ ++	170 26	160 42	160 58	170 60	180 60	180 59											
	231200	T	340 13	+++ ++	+++ ++	210 25	+++ ++	170 57	+++ ++	170 59	160 70	150 91									
	231800	P	360 20	+++ ++	340 28	330 19	320 11	270 10	190 26	170 36	170 64	160 66	160 72								
Ocean Weather Station 'J' 52°30'N 20°00'W	230001	T	350 08	+++ ++	260 07	240 07	210 09	190 18	160 41	170 66	170 90	170 105	180 106	190 70	190 53	200 29					
	230600	P	045 05	+++ ++	050 06	020 02	060 07	190 34	200 28	190 18	180 80	170 78	170 55	180 46	190 38	210 28					
	231200	T	160 20	+++ ++	150 23	150 27	160 27	160 27	160 32	170 36	170 58	170 77	170 57	180 42	180 36						
	231800	P	180 20	+++ ++	160 22	150 25	150 22	160 24	160 21	170 27	170 27	160 40	180 32								
LARKHILL 03743	230730	P	070 10	+++ ++	110 22	110 24	120 20	120 20	100 23	090 34	080 37	020 19	340 24	330 05	290 05	230 05					
	231115	P	090 07	+++ ++	130 14	120 23	110 25	100 13	140 07	090 17	330 17	340 29	340 17	280 08	210 04	220 17	220 10				

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE			SURFACE		1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb	
		MSL	Surf.	0°C level	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C
231138	48.2°N 18.0°W	004	996	880	061	09 04	030	05 04	0890 01 01	1344 02- 04-	1826 05- ++	07- ++	2865 11- ++	16- ++	4023 21- ++	26- ++	5340 31- ++	
Cloud :— 2/8Cu. 2000 to 4500ft; 2/8Cu. 2000 to 5000ft;																		
Inversion Levels :—									Isothermal Levels :—									
YYGGgg	POSITION	PRESSURE			SURFACE		1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb	
		MSL	Surf.	0°C level	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C
231300	45.9°N 13.2°W	005	998	825	061	10 09	043	07 03	908 05 03-	1372 02 02-	1859 02- ++	06- ++	2902 11- ++	12- ++	4078 15- ++	21- ++	5425 25- ++	
Cloud :— 1/8Sc. 1500 to 2200ft; 3/8As. 14000 to 17000ft; 8/8Cs. 18000ft; to T.H.R.																		
Inversion Levels :—									Isothermal Levels :—									
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-.													Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General					
For special arrangements for supply to schools and colleges see Form 2452.													Meteorological Office, Air Ministry, Kingsway, London, W.C.2					

STATION		MAX. WIND
LERWICK 03005	P20400m 270 31 08250/2 060mb 250 21 17100m 230 19	
STORNOWAY 03026	080mb 230 23 P20300m 260 33 118mb 200 18 11185/2	
SHANWELL 03170	342mb 120 17 P25600m 260 47 12550/9 P28800m 270 49 13300m 190 07	
ALDERGROVE 03917	080mb 240 16 15100m 220 19 10600/2 550mb 150 36 091mb 210 21 19200m 240 20 08420/2 09840/5 11300/2	
AUGHTON 03322	11530/4 18000m 220 14 10270/1 11880/4 07600/1	
HEMSBY 03496	080mb 270 08 11300m 090 17 19100m 250 13 078mb 230 14 08100m 070 11	100 67 08100m
CRAWLEY 03774	053mb 230 11 21900m 270 18 07550/1 13860/9 383mb 320 09 P21210/5 22000/2 06300m 280 52 11100m 290 33 18000m 260 13 06300/0 11300/1	290 68 09270m
CAMBORNE 03808	082mb 240 13 18000m 230 11 00800/1 05060/1 05410/7 07000/8 11330/8 01340m 200 25 01340/2	
VALENTIA 03953	942mb 150 36 762mb 170 29 604mb 140 38 135mb 190 27 081mb 210 26 00300m 130 36 00600m 130 40 16800m 180 27	
Ocean Weather Station 'I' 59°00'N 19°00'W	00300m 170 11 00600m 170 19 06300m 180 46 926mb 310 07 905mb 300 05 798mb 150 46 645mb 170 57 388mb 160 71 00300m 350 24 00600m 340 28	160 82 11100m
Ocean Weather Station 'J' 52°30'N 20°00'W	080mb 200 34 06000m 190 70 02300/0 02780/0 12000m 190 33	170 108 09910m 210 89 08460m 170 81 08270m
LARKHILL 03743	17370m 260 12 07980/5 11600/7 20120m 240 17 06530/5 11600/5	

NOTES ON THE AEROLOGICAL SITUATION

There has been little or no progression of the major features in the flow pattern over the Atlantic and Europe but there has been a further strengthening of the block over Europe with the ridge building northwards into the Arctic basin. The small low over France is now approaching southeast England. The broad Atlantic trough persists and has shown some extension southeast towards Biscay.

AVERAGE AND EXTREME VALUES 1951-55
FEBRUARY

LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...
60	18945	-60.1	-46	-71	309	24
100	15745	-58.1	-46	-69	304	17
150	13175	-55.3	-42	-72	311	18
200	11350	-56.7	-42	-70	318	20
300	8770	-52.7	-43	-61	322	21
400	6870	-41.4	-31	-56	315	17
500	5320	-30.1	-19	-43	308	13
700	2845	-13.7	-2	-23	292	7
850	1345	-5.7	4	-13	257	4

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	267	-60.4	9960
Max.	422	-43	12955
Min.	160	-75	6250

LARKHILL/CRAWLEY† at 03, 15h.
(Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...
60	19050	-60.1	-52	-73	308	18
100	15855	-58.1	-47	-71	307	20
150	13285	-55.5	-44	-70	310	25
200	11455	-56.9	-43	-72	313	27
300	8875	-52.2	-43	-61	315	28
400	6965	-39.9	-28	-54	309	23
500	5405	-28.2	-17	-41	306	18
700	2910	-11.2	2	-22	304	12
850	1395	-3.4	6	-15	302	8

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	264	-59.7	9835
Max.	456	-42	14355
Min.	126	-76	5850

MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.

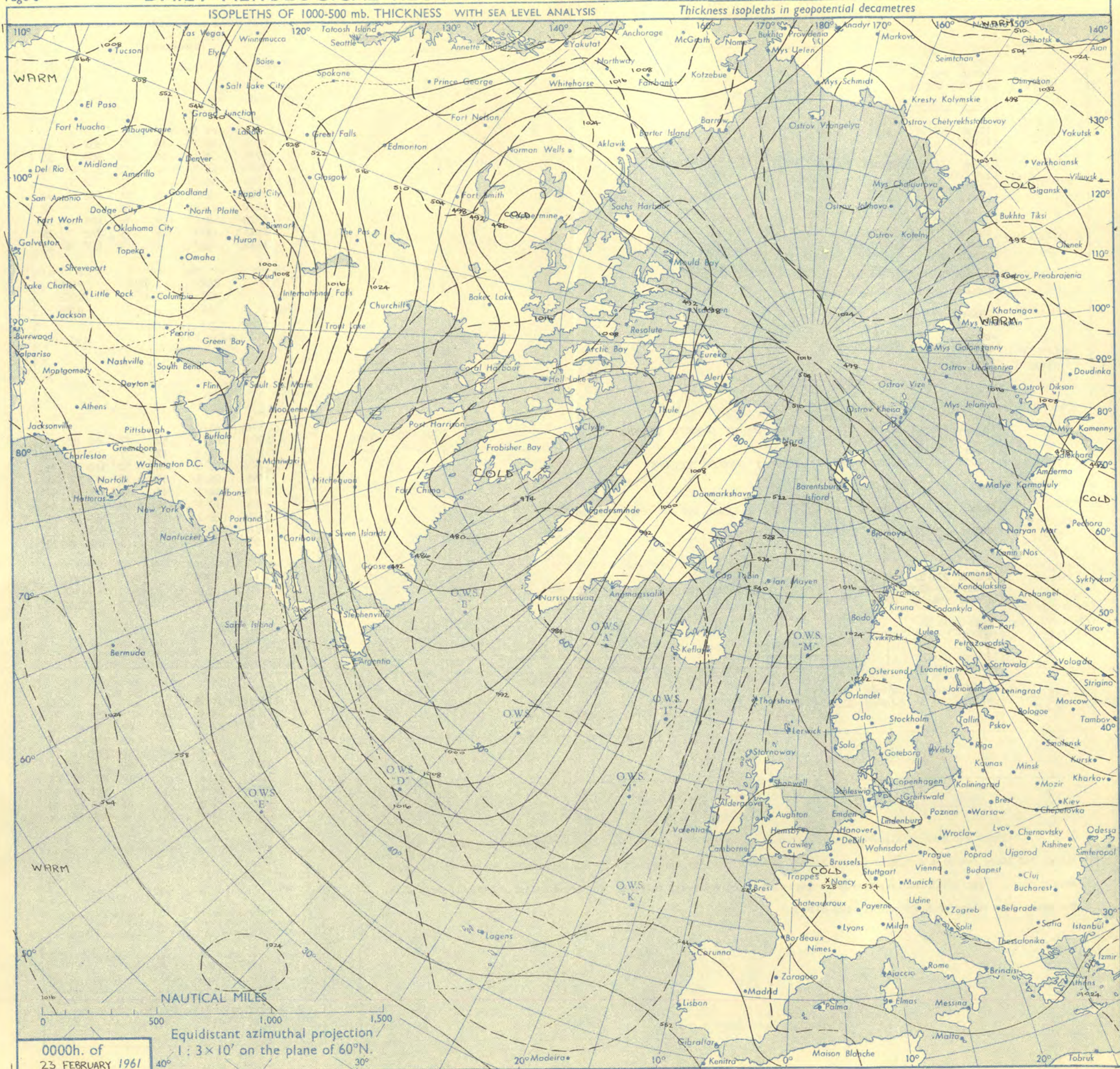
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28
100	16115	-62.3	-55	-69	270	49
150	13575	-56.8	-47	-66	270	66
200	11740	-55.7	-43	-68	270	71
300	9125	-47.2	-37	-56	270	58
400	7165	-33.6	-26	-46	270	45
500	5565	-22.0	-13	-33	270	36
700	3005	-5.0	6	-13	275	23
850	1455	3.7	21	-3	275	17

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	98	-63.6	...	72	...	-73
Lower	230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

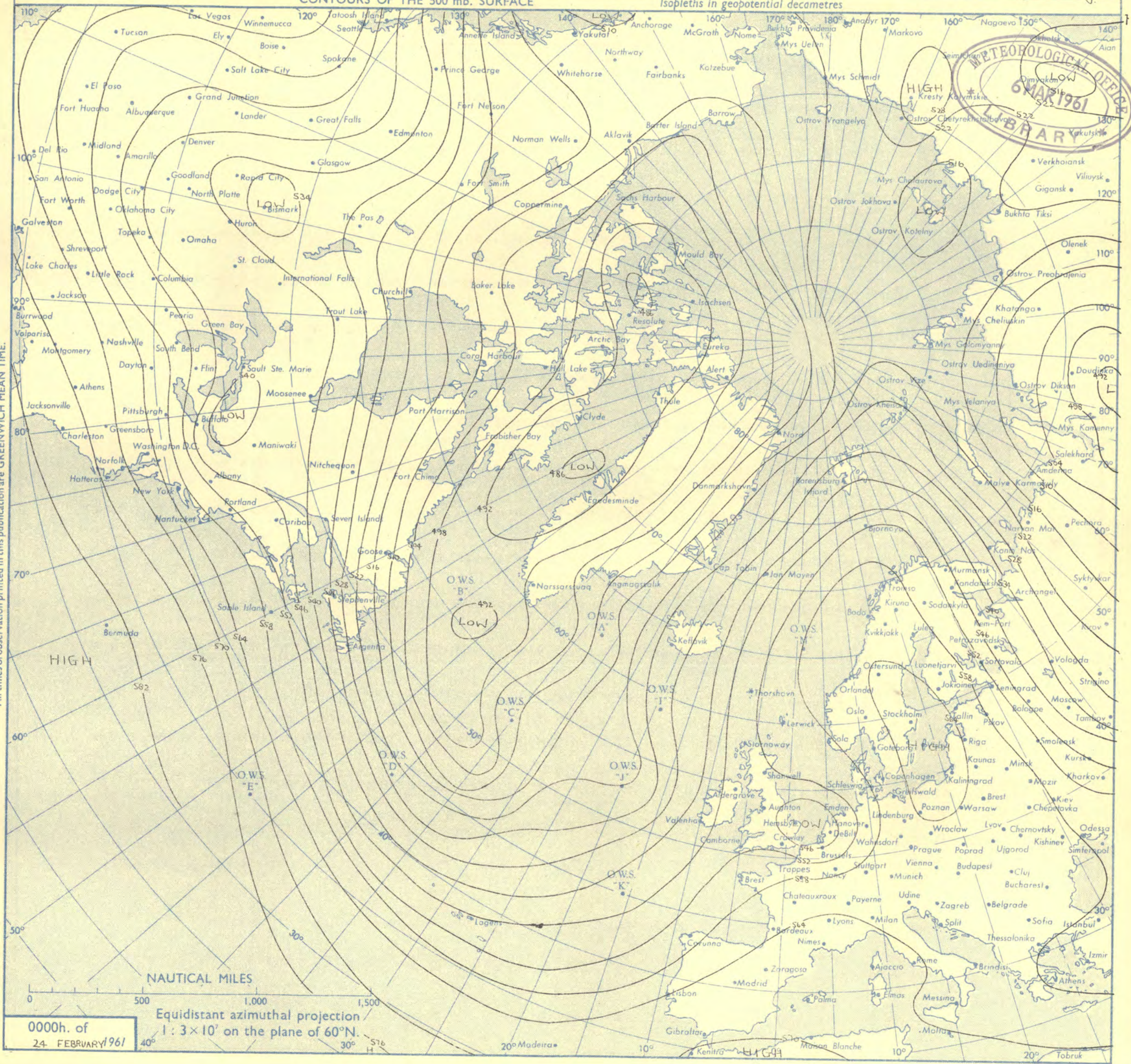
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

All times of observation printed in this publication are GREENWICH MEAN TIME.



NAUTICAL MILES

Equidistant azimuthal projection
1 : 3 × 10⁷ on the plane of 60°N.

0000h. of
24 FEBRUARY 1961

STATION	YYGGgg	SURFACE		1000mb		850mb		700mb		500mb		400mb		300mb		200mb		150mb		100mb		70mb		50mb		30mb	
		gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C
LERWICK 03005	232230	082	04 02	184	04 01	1496	03 10-	3028	11- 18-	5552	26- 37-	7123	39- 48-	9023	54- ++	11571	60- 13387	57- 15941	59- 18166	61-							
	241140	082	04 02	136	04 01-	1434	00 14-	2966	09- 28-	5485	27- 41-	7056	39- ++	8959	54- ++	11505	58- 13331	56- 15894	59- 18119	60- 20212	62-						
STORNOWAY 03026	240115	013	05 02	111	05 02	1429	02 10-	2964	09- 22-	5480	27- 37-	7049	39- 49-	8951	54- ++	11482	63- 13284	59- 15828	60- 18042	61- 20119	63-						
	241138	013	07 02	078	06 01	1386	02- 08-	2914	08- 21-	5441	25- 35-	7025	37- 41-	8941	53- ++	11468	59- 13299	55- 15867	59- 18096	60-							
SHANWELL 03170	232340	005	05 01	154	04 00	1453	05- 10-	2987	07- 27-	5517	25- 42-	7097	37- ++	9017	52- ++	11575	56- 13411	56- 15975	58- 18218	60- 20318	61-						
	241130	005	06 03	103	04 01	1403	02- 10-	2934	08- 27-	5465	25- 43-	7053	35- 49-	8987	52- ++	11523	58- 13363	54- 15947	59- 18199	57- 20313	60- 23504	60-					
ALDERGROVE 03917	232330	077	06 03	094	06 03	1402	01- 05-	2939	07- 22-	5470	24- 40-	7060	35- 49-	8999	51- ++	11536	64- 13349	56- 15919	58- 18158	59- 20270	61-						
	241130	077	05 04	061	++ ++	1365	03- 04-	2887	09- 11-	5426	24- 28-	7013	37- 41-	8934	54- ++	11489	55- 13341	51-									
AUGHTON 03322	232330	056	03 01	121	03 01	1431	00 12-	2960	09- 23-	5483	25- 39-	7065	37- 48-	8993	51- ++	11554	58- 13385	55- 15953	58-								
	241130	056	05 05	072	05 03	1391	01 01-	2929	07- 09-	5475	24- 29-	7064	36- 42-	8990	52- ++	11552	55- 13399	54- 15998	55-								
HEMSBY 03496	232330	012	05 05	122	05 03	1431	03- 06-	2940	12- 19-	5419	31- 41-	6974	38- 49-	8920	46- ++	11567	52- 13426	55- 15988	58- 18227	59- 20334	60-						
	241130	012	06 05	122	05 03	1440	01 00	2978	07- 12-	5509	25- 29-	7090	36- 41-	9016	53- ++	11558	57- 13397	54- 15970	58-								
CRAWLEY 03774	232330	144	04 03	129	++ ++	1441	01- 10-	2973	10- 17-	5508	24- 26-	7093	36- 39-	9043	49- ++	11617	60- 13446	56- 16011	58- 18251	59- 20363	60-						
	241140	144	09 08	098	++ ++	1436	03 02-	2976	08- 11-	5512	24- 34-	7103	36- 47-	9033	52- ++	11601	56- 13428	56- 15995	57- 18242	59- 20343	60-						
CAMBORNE 03808	232330	088	10 10	072	++ ++	1410	04 01	2960	06- 07-	5516	23- 28-	7113	35- 39-	9056	51- ++	11587	60- 13410	56-									
	241130	088	10 09	107	10 08	1427	01- 03-	2953	09- 28-	5487	25- 41-	7073	36- 49-	8998	53- ++	11548	57- 13378	56- 15956	58- 18209	58-							
VALENTIA 03953	240000	014	10 09	041	09 08	1364	02- 03-	2888	09- 14-	5430	24- 26-	7020	36- 39-	8950	53- ++	11490	58- +++++	++	15910	58-							
	241130	014	09 04	078	08 03	1392	04- 08-	2901	12- 24-	5400	26- 38-	6970	39- 49-	8870	55- ++	11440	54- +++++	++	15870	58-							
Ocean Weather Station 'I' 59°00'N 19°00'W	240000		06 03	050-	++ ++	1266	01- 05-	2801	07- 21-	5340	25- 40-	6920	37- 49-	8850	50- ++	11500	47- 12400	48- 16060	50-								
	241200		07 04	092-	++ ++	1233	01- 03-	2764	10- 16-	5260	31- 42-	6790	44- ++	8680	52- ++	11320	49- 13200	51- 15830	52-								
Ocean Weather Station 'J' 52°30'N 20°00'W	240000		06 03	065-	++ ++	1240	05- 08-	2744	13- 17-	5230	32- 38-	6770	42- ++	8670	51- ++	11340	47- 13230	49-									
	241200		09 02	026-	++ ++	1289	04- 07-	2801	12- 22-	5290	31- 43-	6840	43- ++	8710	58- ++	11300	50- 13180	51- 15820	52- 18120	53- 20280	55-						

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 663++	024 013 952 814	001 ++ 01 935 01- 02- 926 05 03- 910 ++ 07- 856 04 08- 790 ++ 09- 763 ++ 14- 674 13- 20- 648 13- 24- 625 ++ 23- 591 16- 27- 554 ++ 32- 396 40- 48- 361 46- 315 53- 252 60- 227 61- 170 57- 100 59- 053 62-				252 10100 60-	
	02 854++	017 007 952 842	000 ++ 01- 930 02- 04- 876 05- 09- 862 ++ 06- 859 00 07- 850 ++ 14- 753 04- 26- 591 18- 37- 569 19- 38- 415 37- 50- 375 44- 254 61- 216 60- 175 55- 100 59- 050 62-				254 10010 61-	
STORNOWAY 03026	05 00900	014 012 824	959 03 02- 890 02 07- 869 03 09- 766 03- 17- 397 40- 49- 335 50- 212 66- 169 58- 083 61- 057 63- 034 61-				212 11120 66-	
	05 10936	009 008 900	980 04 02- 906 ++ 06- 856 03- 09- 843 01- 08- 821 01- 11- 793 ++ 16- 577 17- 29- 501 25- 38- 492 25- 33- 480 ++ 33- 382 40- 44- 284 57- 245 63- 211 63- 191 56- 149 55- 109 57- 092 62- 080 58- 067 62- 056 60-				245 10210 63- 092 16380 62- 067 18370 62-	
SHANWELL 03170	02 855++	019 018 938	011 ++ 00 945 ++ 02- 856 06- 09- 819 01- 17- 782 02- 24- 727 05- 27- 594 17- 33- 579 17- 34- 515 24- 40- 443 32- 49- 323 50- 241 61- 222 61- 209 56- 161 55- 100 58- 038 61- Pressures doubtful above 200mb				241 10400 61-	
	02 864++	013 012 940	002 04 01 873 04- 07- 858 02- 08- 835 ++ 14- 762 04- 22- 647 13- 31- 583 16- 34- 389 37- 50- 255 61- 235 63- 217 62- 188 54- 112 56- 100 59- 066 57- 054 60- 030 60-				235 10520 63-	
ALDERGROVE 03917	04 664++	012 002 918	893 02- 03- 828 00 07- 749 04- 16- 625 14- 30- 470 27- 42- 399 35- 49- 279 55- 245 61- 219 64- 200 64- 194 61- 162 55- 095 59- 061 57- 051 61- 038 59-				219 10990 64- 051 20140 61-	
	63 563++	007 998 937	995 ++ 02 925 01- 02- 654 11- 14- 561 17- 20- 376 ++ 44- 336 47- 271 60- 262 62- 250 62- 242 58- 147 51- 132 55- 110 56-				262 09790 62- 132 14170 55-	
AUGHTON 03322	02 00900	015 008 854	992 02 01- 975 01 01- 953 03 00 918 ++ 02- 907 02 05- 827 ++ 15- 770 04- 19- 663 12- 24- 563 ++ 35- 491 26- 40- 378 40- ++ 249 60- 161 55- 080 58-				249 10180 60-	
	61 864++	009 002 829	000 ++ 03 993 04 02 875 02 01 538 19- 23- 373 40- 46- 257 61- 247 61- 192 53- 100 55-				257 09980 61-	
HEMSBY 03496	46 7557+	015 014 911	009 05 03 998 05 03 917 00 02- 872 01- 03- 832 05- 09- 782 09- 11- 766 08- 11- 740 ++ 15- 717 ++ 19- 701 ++ 19- 688 13- 23- 652 16- 28- 463 35- 45- 412 37- 47- 388 39- 50- 283 47- 238 52- 188 51- 128 58- 037 60-				238 10420 52- 128 14440 58-	
	21 6627+	015 013 828	951 03 02 911 ++ 02- 907 04 01- 842 01 00 780 ++ 04- 720 06- 12- 660 ++ 14- 516 ++ 26- 374 40- 46- 248 63- 176 54- 079 58-				248 10210 63-	
CRAWLEY 03774	02 00908	016 998 892	978 05 02 928 ++ 03- 877 01- 04- 853 ++ 10- 837 ++ 09- 821 01- 10- 753 04- 16- 702 10- 17- 660 11- 15- 620 ++ 15- 537 20- 22- 410 36- 39- 386 36- 39- 267 55- 228 60- 202 60- 192 56- 106 58- 048 60-				228 10780 60-	
	60 3747+	012 995 808	989 ++ 06 933 05 03 921 ++ 04 900 07 02 750 05- 08- 680 ++ 12- 606 ++ 21- 542 ++ 26- 508 ++ 33- 467 27- 38- 395 ++ 49- 284 55- 233 60- 163 54- 138 58- 124 56- 036 62-				233 10640 58- 138 13970 60-	
CAMBORNE 03808	61 861++	009 998 789	978 ++ 09 861 ++ 02 849 04 01 789 00 01- 577 15- 18- 519 21- 26- 482 25- 29- 363 40- 45- 234 65- 223 65- 195 58- 161 55- 120 56-				234 10620 65-	
	02 784++	013 002 868	987 08 05 932 04 02 909 03 00 850 01- 03- 836 ++ 05- 829 01- 08- 795 03- 11- 752 07- 11- 734 06- 20- 695 09- 29- 581 16- 35- 399 36- 49- 286 56- 265 62- 208 56- 190 58- 163 54- 097 58- 058 56-				265 09780 62-	
VALENTIA 03953	02 5642+	005 003 870	913 04 01 843 02- 03- 798 03- 05- 734 07- 11- 688 09- 14- 655 13- 16- 638 12- 15- 567 17- 20- 400 36- 39- 310 51- 237 64- 219 58- 159 53- 130 57- 121 55- 100 58- 054 59-				237 10500 64- 130 14500 57-	
	01 32500	008 009 900	902 00 06- 886 00 05- 818 06- 09- 798 06- 11- 529 25- 38- 496 26- 38- 377 43- 266 61- 254 60- 219 55- 214 56- 208 53- 167 53- 154 55- 111 56-				266 09700 61-	
Ocean Weather Station 'I' 59°00'N 19°00'W	80 884++	993 993 880	863 01- 04- 800 02- 09- 730 04- 18- 579 17- 34- 558 18- 36- 423 34- 47- 363 41- 290 51- 240 51- 211 47- 094 50- 072 52-				290 09000 51-	
	25 79400	988 988 870	988 07 04 837 02- 04- 760 05- 11- 569 22- 30- 435 42- 370 46- 345 49- 307 52- 256 51- 218 49- 113 52- 080 52-				307 08500 52-	
Ocean Weather Station 'J' 52°30'N 20°00'W	25 734++	992 992 921	916 01- 03- 788 09- 11- 752 09- 12- 686 14- 19- 674 14- 20- 572 23- 29- 430 40- 46- 398 42- 327 51- 196 46- 166 50- 147 49-				327 08100 51- 166 12600 50-	
	03 48500	997 997 898	972 06 01- 872 02- 05- 829 05- 08- 807 04- 10- 798 ++ 12- 700 12- 22- 681 12- 23- 616 18- 31- 422 40- 358 49- 306 58- 270 60- 241 53- 230 55- 200 50- 094 52- 040 58-				270 09400 60-	

STATION	YYGG	Type	Surface	1000mb	900m	850mb	750mb	700mb	600mb	500mb	400mb	300mb	250mb	200mb	150mb	100mb	70mb	50mb	30mb	20mb	10mb				
					1500m	2100m	3000m	4200m	5400m	7200m	9000m	10500m	12000m	14100m	15900m	18300m	20700m	23700m	26400m	30900m					
LERWICK 03005	232230	T	150 23	+++ ++	150 33	150 30	140 32	140 32	140 29	130 30	130 31	120 23	110 19	150 10	170 19	220 19	250 24								
	240530	P	140 25	+++ ++	140 36	140 40	150 37	160 33	150 28	150 22	150 24	170 18	160 08	200 17	210 16	230 20	240 26								
	241140	T	140 26	+++ ++	150 34	150 30	160 29	150 30	150 22	130 22	110 19	140 11	140 07	180 11	190 22	220 27	230 26								
	241729	P	140 22	+++ ++	150 29	160 26	160 25	150 27	150 23	150 22	150 02	320 05	220 10	200 24	210 24	230 29	240 30	260 33							
STORNOWAY 03026	232330	P	140 15	+++ ++	160 33	170 37	160 34	160 40	150 37	160 36	170 33	180 22	160 18	180 23	190 22	210 22	230 27	240 29							
	240530	P	140 14	+++ ++	160 18	170 23	160 31	160 37	150 32	160 31	180 29	200 12	180 23	180 25											
	241138	T	150 11	+++ ++	170 19	180 24	170 31	160 31	160 36	170 26	180 25	180 30	170 30	170 34	200 30	190 26	220 22								
	241730	P	190 16	+++ ++	170 20	180 15	170 20	160 34	170 38	170 42	160 41	170 49	170 32	200 35	210 27	220 29									
SHANWELL 03170	232340	T	090 10	+++ ++	120 16	120 21	140 28	140 27	130 25	130 28	130 15	110 06	340 05	190 12	200 19	210 20	240 22	250 24							
	240530	P	120 04	+++ ++	130 21	140 22	150 23	140 21	130 19	130 12	360 01	280 09	250 04	210 18	210 20	220 19	230 15								
	241130	T	100 12	+++ ++	130 23	150 22	160 26	160 25	180 12	200 09	240 17	240 20	210 17	210 20	200 26	210 20	230 20	230 23	260 37	270 38					
	241730	P	110 05	+++ ++	150 23	170 26	170 21	160 22	190 30	190 22	210 31	200 32	300 31	210 29	220 25	220 23									
ALDERGROVE 03917	232330	T	130 18	+++ ++	140 35	150 37	160 38	160 33	170 27	170 17	210 12	230 16	190 19	170 25	200 25	200 21	200 17	240 22							
	240530	P	120 14	+++ ++	150 28	170 30	160 26	170 25	170 25	190 26	190 31	190 30	190 35	200 26	200 24	200 24	230 20								
	241130	T	000 00	+++ ++	220 11	260 07	210 12	190 13	170 32	180 37	180 31	180 51	180 50	200 32	210 31										
	241730	P	000 00	+++ ++	290 10	280 16	270 15	200 27	210 32	210 37	200 45	220 57	210 51	200 33	210 30	210 22	220 33								
AUGHTON 03322	232330	T	060 10	+++ ++	150 18	140 14	140 13	140 11	090 10	020 05	340 12	300 39	290 29	220 15	210 22	210 19									
	240530	P	090 15	+++ ++	150 25	160 24	170 26	190 18	240 15	250 23	260 26	250 32	240 20	220 22	210 20	220 20	230 15								
	241130	T	100 13	+++ ++	170 41	180 37	200 31	200 30	190 28	200 32	190 28	190 35	200 40	210 26	210 29										
	241730	P	210 06	+++ ++	270 27	270 23	260 19	230 20	240 29	230 35	240 24	240 48	240 47	220 37	220 26	220 26	240 19	250 18							
HEMSBY 03496	232330	T	000 00	+++ ++	270 02	140 02	160 04	220 05	280 05	270 11	280 36	280 45	280 36	250 13	230 12	230 14	240 12	250 14							
	240530	P	000 00	+++ ++	260 05	270 04	280 12	290 16	280 42	270 61	280 63	280 64	270 40	260 19	220 15	250 15	280 11								
	241130	T	140 07	+++ ++	180 14	230 18	230 35	230 43	240 25	230 29	250 35	230 39	230 48	230 29	220 23	220 12									
	241730	P	170 09	+++ ++	190 27	190 30	190 29	210 26	230 24	250 32	260 46	260 44	240 36	240 30	240 22	230 19	250 16								
CRAWLEY 03774	232330	T	050 02	+++ ++	180 07	200 03	270 21	280 24	260 47	260 53	280 51	270 54	270 36	270 23	230 22	220 10	240 12	260 19	270 23						
	240530	P	140 10	+++ ++	230 20	240 30	230 37	240 43	250 32	250 29	260 35	260 36	260 36	230 27	220 16	230 17									
	241140	T	160 04	+++ ++	200 29	200 41	200 48	200 50	200 48	190 35	190 48	190 54	210 45	240 28	220 28	220 15	230 16	250 17	260 24	270 32					
	241730	P	220 07	+++ ++	270 20	260 28	260 30	250 34	250 35	240 37	250 31	260 60	260 72	230 33	240 22	220 20	250 15								
CAMBORNE 03808	232330	T	170 15	+++ ++	200 27	200 33	210 35	210 32	210 28	220 21	220 30	240 40	220 44	220 30	200 27										
	240530	P	300 15	+++ ++	290 16	270 15	230 16	210 33	200 34	190 36	190 39	190 51	190 41	220 36	220 27										
	241130	T	260 15	+++ ++	280 17	260 21	250 21	260 23	240 29	240 37	250 36	250 63	250 61	230 35	210 32	210 23	210 14								
	241730	P	160 03	+++ ++	200 15	210 18	200 18	210 22	220 27	200 49	200 50	220 65	220 91	220 50	220 31	210 23									
VALENTIA 03953	240000	T	180 05	190 06	+++ ++	230 18	+++ ++	220 30	+++ ++	170 51	170 57	190 68	+++ ++	180 46	+++ ++	190 30									
	241130	T	180 07	190 08	+++ ++	240 15	+++ ++	240 25	+++ ++	210 40	200 44	220 73	+++ ++	190 43	+++ ++	200 35									
Ocean Weather Station 'I' 59°00'N 19°00'W	240000	T	330 12	+++ ++	+++ ++	140 26	+++ ++	210 48	+++ ++	170 34	270 54	160 85	+++ ++	160 67	160 31										
	240600	P	090 10	+++ ++	140 12	170 19	160 26	150 32	150 30	150 34	140 36	150 77	150 70												
	241200	T	130 10	+++ ++	+++ ++	150 21	+++ ++	150 22	+++ ++	150 22	150 33	150 34	+++ ++	150 54	150 49	150 34									
	241800	P	225 10	+++ ++	230 10	230 14	230 18	230 20	230 18	210 10	220 11	220 10	200 15	180 25	190 34										
Ocean Weather Station 'J' 52°30'N 20°00'W	240000	T	280 38	+++ ++	280 47	280 50	270 39	260 34	230 26	250 29	240 41	230 36	190 38	190 42											
	240600	P	180 20	+++ ++	230 28	230 28	230 28	240 29	270 34	290 35	260 34	230 32	180 48	200 42	210 32	200 21	220 31								
	241200	T	190 30	+++ ++	180 33	190 35	180 29	170 27	170 16	190 06	320 18	260 16	210 29	200 24	200 30	190 24	230 18	240 25							
	241730								NO WINDS REPORTED																
LARKHILL 03743	240730	P	110 10	+++ ++	180 19	200 23	200 40	210 41	220 26	200 28	220 35	220 36	220 45	230 23	210 22	240 18	240 11								
	241130	P	130 08	+++ ++	190 31	180 37	190 30	200 28	200 26	170 22	150 26	200 23	220 36												

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGG	POSITION	PRESSURE MSL Surf. °C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb m °C °C	700mb m °C °C	650mb m °C °C	600mb m °C °C	550mb m °C °C	500mb m °C °C
241153	52.0N 24.5W	987 979 865	061 08 02	113- 07 04	750 02 02	1207 01- 01	1688 06- ++	08- 16	2722 12- 23	15- 17	3886 18- 18	25- 29	5215 20- 29	
Cloud :— 4/8 Cu. 2500 to 4500 ft. 3/8 Cu. 2500 to 6000 ft. 4/8 As. 12000 ft. to TNG. 8/8 As. 16000 ft. to TNG. Inversion Levels :— Isothermal Levels :—														
YYGG	POSITION	PRESSURE MSL Surf. °C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb m °C °C	700mb m °C °C	650mb m °C °C	600mb m °C °C	550mb m °C °C	500mb m °C °C
241326	49.3N 19.8W	993 985 871	061 08 01	061- 06 03	802 02 03	1259 02- 06	1737 05- 10	08- 26	2774 11- 29	14- 37	3944 18- ++	25- ++	5270 31- ++	
Cloud :— 3/8 Cu. 3000 to 5000 ft. 2/8 Cu. 3000 to 10000 ft. 1/8 Cu. 3000 to 16000 ft. 4/8 Cs. 20000 ft. to TNG. Inversion Levels :— Isothermal Levels :—														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.												Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2		

STATION		MAX. WIND
LERWICK 03005	053mb 250 26 20100m 240 30 07200/8 09300/5	
STORNOWAY 03026	21300m 240 32 13700m 200 23 07580/1 060mb 220 31 02530/0 09780/1	
SHANWELL 03170	223mb 090 05 P23400m 270 33 08140/9 10660/5	
ALDERGROVE 03917	01830/1 04600/2 126mb 200 28 02310/5	220 61 09000m
AUGHTON 03322	087mb 220 14 03450/2 10480/5 110mb 200 23 10160/1	
HEMSBY 03496	444mb 290 24 19300m 270 13 03820/0 10460/1 086mb 240 17 20400m 270 17	290 70 07600m
CRAWLEY 03774	P24600m 280 28 18000m 250 12 00500/2 00910/2 11550/5 P27000m 270 26 19500m 290 21 09600/0 10150/0 10620/1 11500/1 15180/5	260 83 09880m
CAMBORNE 03808	129mb 220 24 01410/5 10250/1 12700/1 330mb 250 52 233mb 230 45 063mb 230 20 10800m 220 66 17100m 210 21 09400/0 09900/0 10370/1 10800/1 11250/1	250 78 09920m 220 105 10140m
VALENTIA 03953	913mb 230 14 567mb 160 40 237mb 200 73 219mb 180 55 159mb 200 36 054mb 200 29 902mb 230 11 377mb 210 44 254mb 220 63 219mb 210 50 167mb 220 30 154mb 210 32	200 81 10260m 220 78 09270m
Ocean Weather Station 'I' 59°00'N 19°00'W	863mb 130 25 730mb 200 30 579mb 170 16 423mb 170 48 363mb 160 72 240mb 160 80 00300m 120 09 00600m 130 10 760mb 160 20 345mb 150 41 307mb 160 50 256mb 160 57 113mb 150 40 080mb 150 28 00300m 220 12 00600m 230 10 15100m 200 36	260 86 08750m 150 88 09600m
Ocean Weather Station 'J' 52°30'N 20°00'W	154mb 190 50 09600m 210 38 19200m 220 14 362mb 290 27 274mb 230 22	
LARKHILL 03743	19510m 230 14 11700m 230 31 05550/5 08650/2	

NOTES ON THE AEROLOGICAL SITUATION

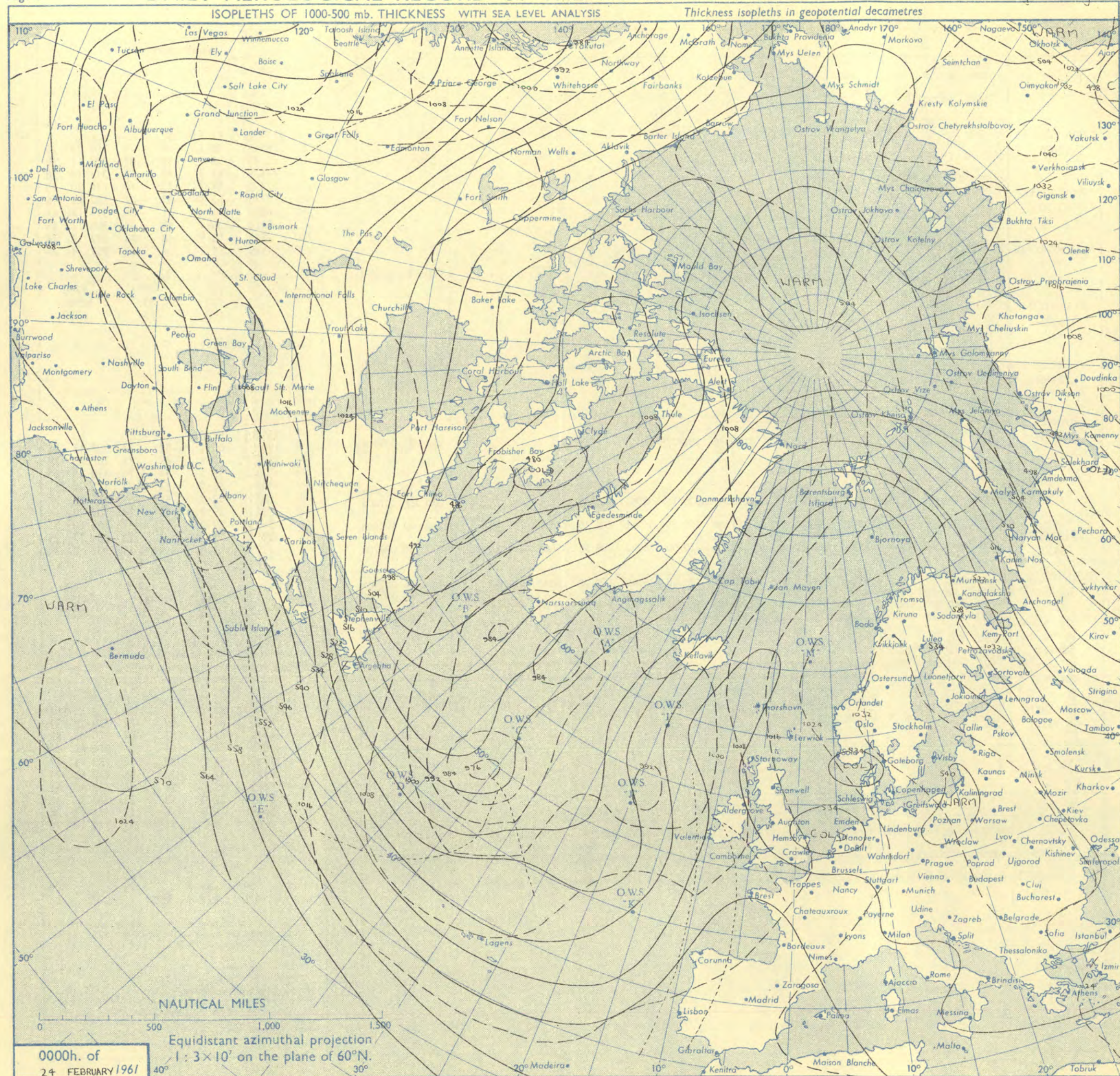
The blocking ridge over Europe is now declining a little and moving very slowly east. The broad Atlantic trough persists with little movement in the north but extending slowly southeast towards Biscay. The small low now over the southern North Sea has continued its northward movement and has deepened slightly.

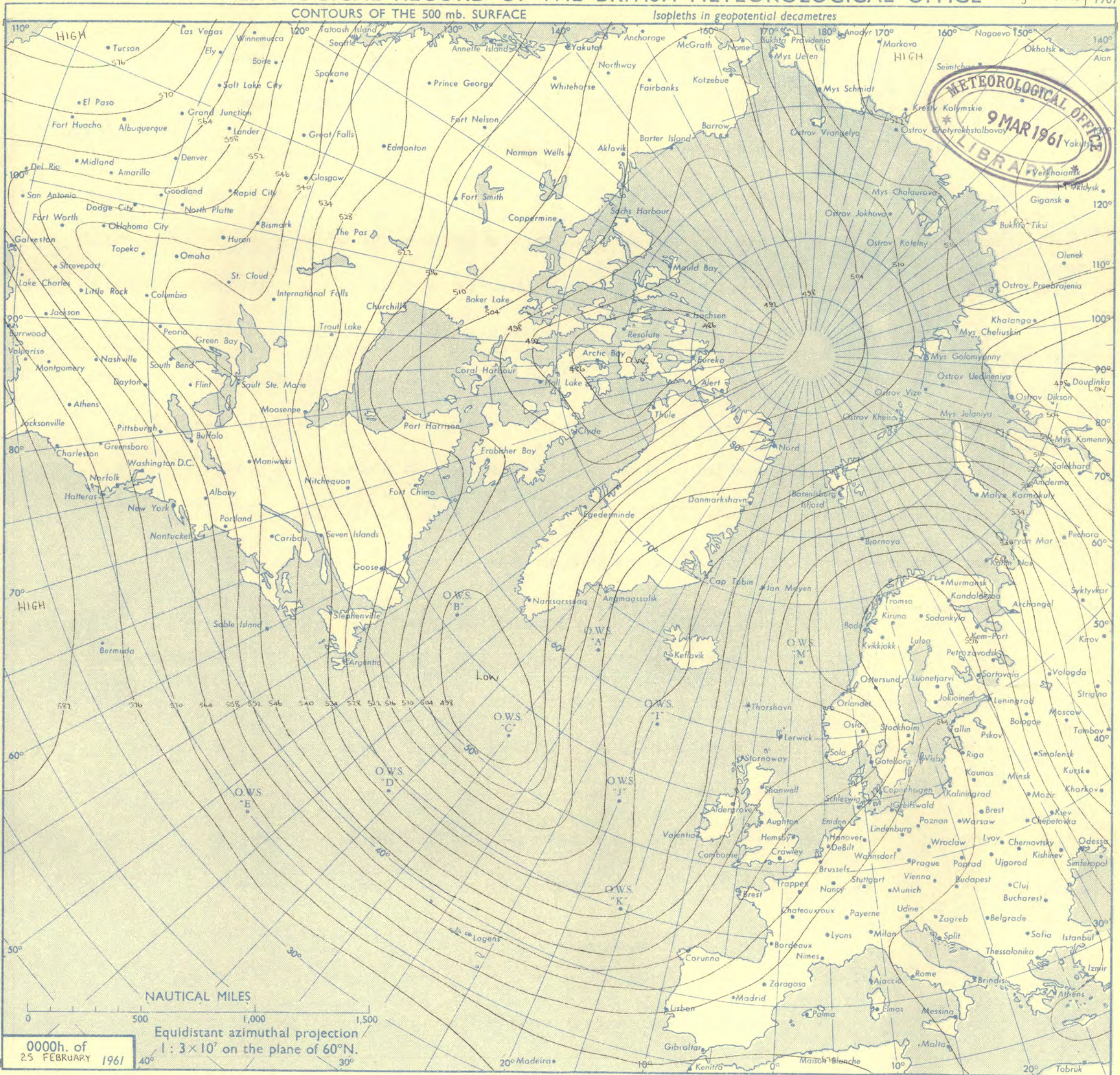
AVERAGE AND EXTREME VALUES 1951-55 FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V _R V _S		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	46
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V _R V _S		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V _R V _S		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropo- pause		Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		98	-63.6	...	72	...	-73
		230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.





STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb						
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C							
LERWICK 03005	242330	082	04	02	110	04	02	1409	04	06	2924	11	23	5424	28	45	6986	40	++	9996	56	++	11441	54	13278	56	15836	59																
	251130	082	06	06	069	++	++	1379	02	04	2894	09	28	5401	29	44	6964	39	++	8876	53	++	11468	54	13312	54	15898	57	18155	57														
STORNOWAY 03026	242330	013	05	04	073	05	03	1384	03	05	2896	12	16	5413	25	38	6998	37	44	8918	55	++	11483	52	13352	54	15940	57	18196	58	20292	63												
	251131	013	07	04	046	06	03	1358	02	08	2878	10	23	5380	26	38	6953	39	45	8863	55	++	11417	54	13268	54	15862	57	18115	58	20213	62												
SHANWELL 03170	242330	005	05	04	078	06	04	1391	01	04	2916	07	16	5462	24	41	7051	36	47	8980	53	++	11533	54	13385	55	15968	57	18222	59	20327	61												
	251130	005	05	03	065	05	03	1377	01	04	2908	08	13	5456	23	33	7045	37	47	8953	55	++	11509	55	13360	53	15947	57	18206	58	20324	58												
ALDERGROVE 03917	242330	077	04	02	076	++	++	1390	03	07	2901	11	23	5393	28	36	6958	38	44	8868	55	++	11436	54	13283	54	15867	57	18125	56														
	251130	077	07	05	011	++	++	1307	01	03	2844	08	11	5373	25	35	6953	38	48	8863	54	++	11429	53	13293	54	15873	56	18123	57	20236	61												
AUGHTON 03322	242330	056	05	03	101	05	00	1416	03	10	2940	10	32	5463	24	27	7053	36	39	8982	53	++	11524	59	13352	54	15922	57	18170	58														
	251130	056	09	08	020	++	++	1348	02	00	2891	07	09	5433	24	27	7031	35	48	8958	54	++	11556	53	13428	51	16041	56																
HEMSBY 03496	242330	012	07	06	121	07	05	1449	03	08	2992	06	26	5548	23	42	7139	35	50	9079	52	++	11614	58	13426	57	15981	58	18219	59														
	251257	012	09	07	083	09	06	1412	03	02	2958	06	08	5506	23	27	7100	35	39	9040	50	++	11603	55	13442	55																		
CRAWLEY 03774	242330	144	06	06	121	++	++	1452	01	02	2994	07	11	5543	22	28	7143	34	38	9093	50	++	11634	64	13429	58	15984	58	18220	59	20323	60	23497	61										
	251215	144	09	09	072	++	++	1403	02	00	2941	08	11	5486	23	34	7082	35	42	9032	48	++	11634	55	13486	53	16071	56	18333	56	20465	57												
CAMBORNE 03808	242330	088	08	08	078	++	++	1401	00	02	2934	08	10	5474	25	28	7063	36	40	8994	51	++	11568	58	13407	54	16001	56																
	251130	088	09	06	013	++	++	1334	01	04	2850	11	13	5336	30	38	6894	39	50	8830	47	++	11490	51	13353	53	15937	57	18187	58														
VALENTIA 03953	242330	014	08	03	042	07	02	1353	03	05	2868	11	25	5360	29	40	6920	39	50	8830	54	++	11410	52																				
	251130	014	++	++	049	++	++	1272	01	03	2793	11	21	5300	26	31	6870	38	42	8790	49	++	11460	48	++++	++	15970	54																
Ocean Weather Station 'I' 59°00'N 19°00'W	250000		07	01	047	++	++	1271	01	06	2791	10	16	5290	30	40	6840	41	++	8730	56	++	11350	51	13210	52	15830	54																
	251200		09	04	084	++	++	1214	00	04	2773	08	16	5290	25	37	6860	39	++	8760	55	++	11360	49	13240	50	15880	51	++++	++	20330	56	23550	60										
Ocean Weather Station 'J' 52°30'N 20°00'W	250000		10	09	138	++	++	1190	00	++	2714	10	++	5230	28	++	6790	42	++	8670	59	++	11240	51	13120	48	15770	52	18070	55	20190	57												
	251200		05	02	132	++	++	1175	04	06	2680	14	17	5150	33	37	6680	41	++	8630	42	++	11370	42	13300	44	16000	49	18320	52														

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPopause		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	50 564++	013	003	947	866 05- 07- 850 ++ 06- 823 03- 12- 803 ++ 12- 770 ++ 18- 683 ++ 26- 633 16- 26- 583 19- 33- 515 ++ 45- 471 32- 47- 440 35- 49- 274 61- 262 62- 246 58- 215 57- 208 54- 100 59- 085 60- Pressure doubtful above 150mb	262	09750	62-
	20 363++	008	998	898	991 ++ 03 978 04 03 812 04- 06- 753 09- 12- 738 ++ 12- 720 ++ 26- 709 08- 27- 676 ++ 32- 616 ++ 29- 474 32- 47- 421 36- 344 47- 269 57- 240 53- 220 56- 210 54- 100 57- 054 59-	269	09570	57-
STORNOWAY 03026		009	007	886	944 02 00 915 02 02- 899 ++ 03- 810 ++ 07- 772 ++ 11- 746 08- 17- 728 ++ 23- 707 ++ 15- 686 ++ 16- 650 15- 29- 593 17- 38- 553 21- 39- 522 22- 37- 449 ++ 37- 375 40- 46- 266 61- 204 52- 176 50- 140 55- 076 57- 050 63-	266	09690	61-
	03 00902	006	004	889	988 05 00 937 03 04- 847 ++ 09- 825 04- 12- 788 04- 19- 751 ++ 23- 661 ++ 25- 573 22- 32- 510 25- 38- 452 33- 41- 439 33- 41- 390 40- 46- 255 63- 233 56- 125 53- 112 56- 036 64- 032 62-	255	09890	63-
SHANWELL 03170	60 874++	010	009	878	998 06 03 951 03 00 715 08- 12- 698 07- 15- 663 ++ 23- 597 15- 32- 577 15- 32- 498 24- 41- 382 39- 50- 248 63- 200 54- 176 52- 100 57- 048 61-	248	10200	63-
	02 755++	008	007	889	982 04 03 959 03 01 947 04 03 920 02 03- 879 ++ 02- 859 02- 05- 846 01- 05- 827 ++ 06- 805 ++ 10- 754 04- 13- 740 ++ 14- 700 08- 13- 628 14- 17- 619 12- 15- 597 ++ 16- 547 18- 26- 385 40- 50- 278 60- 221 58- 214 55- 181 53- 100 57- 083 56- 053 60- 051 57- 044 61-	278	09420	60-
ALDERGROVE 03917	10 15636	009	000	888	993 ++ 01- 982 06 01 813 05- 09- 697 11- 23- 589 20- 32- 517 28- 36- 502 28- 35- 434 36- 42- 417 36- 42- 386 ++ 46- 271 61- 223 54- 134 54- 101 58- 096 56- 060 59-	271	09500	61-
	60 663++	997	989	818	969 04 02 918 02 00 840 01 03- 765 03- 06- 755 03- 06- 730 ++ 09- 585 18- 21- 554 18- 25- 500 25- 35- 390 ++ 50- 381 42- 261 62- 251 61- 232 54- 169 50- 155 54- 121 57- 095 56- 045 61-	261	09750	62-
AUGHTON 03322	02 00906	012	005	889	989 ++ 01- 986 07 01- 920 ++ 05- 861 ++ 05- 859 03- 07- 840 02- 12- 800 03- 23- 594 18- 36- 577 18- 36- 562 20- 37- 551 19- 29- 522 ++ 26- 493 ++ 28- 371 40- 43- 252 63- 227 58- 209 60- 144 54- 103 58- 053 60-	252	10080	63-
	61 8752+	003	996	810	984 ++ 06 955 ++ 05 905 05 03 841 ++ 01- 766 02- 04- 555 19- 21- 491 ++ 28- 466 ++ 35- 422 31- 44- 404 ++ 47- 384 37- 50- 300 54- 252 58- 236 53- 164 49- 108 56- 095 56-	252	10070	58-
HEMSBY 03496	02 00908	015	013	815	978 08 05 928 03 00 896 06 03- 889 ++ 06- 804 01- 13- 769 01- 19- 663 09- 30- 649 08- 29- 458 28- 45- 429 33- 48- 401 35- 50- 384 36- 281 56- 233 64- 212 64- 201 58- 185 61- 156 56- 114 59- 089 58- 066 58- 057 62-	233	10670	64-
	60 4577+	010	009	800	749 03- 05- 584 15- 18- 540 20- 23- 531 19- 23- 367 40- 45- 260 58- 229 62- 184 53- 161 57- 133 56-	229	10770	62-
CRAWLEY 03774	45 9+0++	015	997	841	953 08 02 908 06 02 837 00 02- 763 02- 07- 658 11- 14- 625 ++ 22- 590 13- 21- 557 ++ 24- 542 ++ 27- 490 ++ 29- 370 38- 42- 275 55- 220 65- 161 58- 098 58- 030 61-	220	11050	65-
	21 872++	008	991	721	985 ++ 07 909 05 03 699 ++ 11- 651 10- 19- 500 23- 34- 435 ++ 36- 361 40- 46- 249 57- 218 54- 185 56- 169 51- 118 57- 038 56-	249	10240	57-
CAMBORNE 03808	61 8072+	010	999	852	985 08 06 873 01 01- 818 ++ 03- 757 05- 06- 654 10- 12- 615 13- 16- 532 ++ 24- 513 23- 25- 424 33- 37- 375 40- 44- 337 46- 256 58- 201 59- 192 55- 079 55-	256	10000	58-
	25 633++	002	991	872	980 08 04 920 03 01 877 ++ 04- 752 ++ 09- 699 ++ 14- 650 ++ 23- 629 ++ 22- 551 25- 33- 444 36- 46- 420 37- 48- 397 39- 50- 334 46- 218 51- 148 53- 087 58- 069 58-	334	08100	46-
VALENTIA 03953	03 32500	004	003	905	003 08 03 855 03- 05- 808 04- 18- 679 13- 27- 556 24- 31- 526 27- 36- 475 30- 41- 421 36- 47- 327 50- 289 56- 261 61- 248 56- 231 52- 209 53- 190 51- 156 51- 145 53-	261	09700	61-
	60 6647+	994	992	860	983 08 05 826 03- 05- 764 05- 08- 726 09- 15- 717 09- 18- 699 11- 21- 638 15- 26- 567 22- 29- 496 26- 31- 360 44- 324 49- 161 49- 115 53- 061 55- 057 57- 047 57- 040 63-	324	08300	49-
Ocean Weather Station 'I' 59°00'N 19°00'W	01 48400	994	994	870	994 07 01 833 02- 07- 815 02- 09- 735 09- 14- 712 09- 15- 568 21- 31- 463 35- 45- 385 43- 266 56- 232 50- 121 53-	300	08730	56-
	02 39403	989	989	850	871 01 03- 760 04- 11- 632 14- 23- 538 23- 34- 507 24- 36- 460 30- 42- 321 52- 258 62- 253 53- 235 56- 220 50- 190 48- 090 52-	258	09800	62-
Ocean Weather Station 'J' 52°30'N 20°00'W	15 784++	983	983	851	923 05 ++ 809 03- ++ 670 13- ++ 621 15- ++ 468 32- ++ 412 40- ++ 273 64- 253 56- 193 51- 151 48- 112 52- 080 54- 050 57-	273	09200	64-
	80 6946+	984	984	921	959 02 00 866 03- 05- 590 23- 26- 440 40- 44- 423 42- 309 42- 119 46- 080 52- 070 52-	423	06300	42-

STATION*	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	242330	T	140 22	+++ ++	140 30	150 31	150 23	150 21	160 18	210 13	240 20	220 19	200 22	200 24	200 29	P220 31					
	250530	P	130 16	+++ ++	140 23	150 18	170 19	170 27	170 25	200 31	190 38	190 38	200 43	200 35	210 28	210 28					
	251130	T	150 15	+++ ++	180 20	190 21	200 24	210 30	210 28	220 39	240 61	230 63	210 60	210 45	210 36	220 33	230 32				
	251730	P	140 18	+++ ++	150 25	160 26	170 27	170 29	190 39	180 37	180 36	200 45	200 54	210 43	220 31	230 39	240 37				
STORNOWAY 03026	242330	T	200 08	+++ ++	210 12	210 13	210 16	190 18	180 25	180 39	180 45	190 58	190 53	200 39	190 28	200 30	230 28				
	250545	P	190 12	+++ ++	200 12	200 11	210 12	190 13	200 27	190 33	170 44	180 44	190 40	210 40	210 35	220 27					
	251131	T	120 10	+++ ++	140 14	150 14	180 21	190 24	190 30	190 37	210 44	210 58	210 53	200 41	200 38	220 33	240 35	230 31			
	251735	P	110 18	+++ ++	130 14	150 14	140 19	150 26	170 35	160 46	150 44	160 48	180 43	210 41	220 35	230 36	240 29				
SHANWELL 03170	242330	T	000 00	+++ ++	220 08	220 12	210 18	210 20	190 27	200 36	190 41	210 50	220 55	210 42	190 29	220 24					
	250530	P	260 02	+++ ++	260 09	230 11	220 17	220 31	220 32	220 44	210 62	220 68	200 62	210 41	210 29	220 27					
	251130	T	090 08	+++ ++	150 18	160 22	150 27	160 29	170 36	180 34	190 29	200 44	200 62	200 44	210 40	230 32	230 24	250 22			
	251730	P	160 05	+++ ++	179 23	180 25	170 27	180 35	170 40	160 42	160 41	160 49	180 45	200 38	220 32	210 36					
ALDERGROVE 03917	242330	T	130 08	+++ ++	180 10	190 10	200 17	220 20	210 27	200 35	190 60	190 71	190 59	200 50	200 35	210 30	230 27				
	250530	P	120 10	+++ ++	150 23	150 27	170 23	180 30	190 27	220 41	220 49	220 51	200 51	210 45	220 32	210 28					
	251130	T	110 22	+++ ++	140 35	140 31	160 30	170 30	170 35	160 37	170 50	170 63	180 60	190 44	200 33	230 29	230 30	240 24			
	251730	P	220 20	+++ ++	250 46	250 56	240 44	200 25	190 24	150 35	140 51	180 31	220 35	220 35							
AUGHTON 03322	242330	T	110 05	+++ ++	210 10	200 12	220 28	220 29	200 37	200 50	190 47	200 59	220 69	200 52	210 30	210 25	230 16				
	250530	P	080 07	+++ ++	150 26	150 23	180 27	190 30	200 33	210 30	200 40	200 54	200 64	210 44	210 34	240 26	240 20				
	251130	T	090 11	+++ ++	170 34	180 36	190 32	190 32	170 34	180 42	180 39	180 53	190 56	200 42	210 33						
	251730	P	210 19	+++ ++	240 40	240 44	240 42	230 42	230 36	210 40	190 37	210 43	220 46	220 42	230 34	230 25	250 17	240 22			
HEMSBY 03496	242330	T	240 09	+++ ++	260 23	240 25	220 28	220 27	210 31	220 36	230 41	240 47	250 61	240 35	220 22	230 20	230 14				
	250530	P	130 10	+++ ++	180 30	200 37	200 42	200 35	200 36	200 37	210 42	210 53	230 58	210 38	230 24	230 22					
	251130	P	160 18	+++ ++	180 46	180 56	180 64	180 45	190 44	190 38	180 43	190 72	190 68	210 39	230 29	230 26	250 29				
	251730	P	190 13	+++ ++	230 39	230 40	230 44	210 58	190 64	180 65	190 63	210 69	200 57	220 42	230 29	240 26					
CRAWLEY 03774	242330	T	120 03	+++ ++	200 21	210 21	200 30	200 34	210 32	200 43	210 39	220 55	230 66	230 56	220 31	220 25	240 18	250 18			
	250530	P	150 10	+++ ++	200 35	200 33	200 34	190 39	190 42	190 37	200 42	200 57	210 63	210 40	220 33						
	251130	P	180 17	+++ ++	200 33	200 34	210 40	210 44	200 43	200 46	190 61	180 80	190 57	210 44	230 30						
	251730	P	220 12	+++ ++	240 41	240 42	240 44	240 47	230 47	230 59	240 77	230 63	230 54	230 44	240 33	240 25	260 19	250 18			
CAMBORNE 03808	242330	T	110 10	+++ ++	150 18	150 18	160 24	190 37	200 45	200 43	200 54	210 75	210 75	210 54	220 38	210 28					
	250530	P	170 18	+++ ++	190 32	190 34	180 33	190 35	210 24	200 23	190 39	200 49	200 54	210 44	220 31	230 35	230 18				
	251130	T	230 27	+++ ++	240 47	240 48	230 42	230 40	220 42	200 47	190 45	210 47	220 51	220 49	230 34	240 28	250 20	P200 14			
	251811	P	190 17	+++ ++	230 52	230 51	230 47	230 53	240 55	260 79	250 81	260 81	270 74	260 49							
VALENTIA 03953	242330	T	130 14	130 16	+++ ++	160 35	+++ ++	180 29	+++ ++	230 44	240 43	240 64	+++ ++	210 45							
	251130	T	240 07	+++ ++	+++ ++	240 33	+++ ++	240 35	+++ ++	170 30	140 39	180 39	+++ ++	220 45	+++ ++	220 23					
Ocean Weather Station 'I' 59°00'N 19°00'W	250000	T	210 20	+++ ++	+++ ++	210 26	+++ ++	220 12	+++ ++	270 10	300 48	290 23	+++ ++	190 28	180 41						
	250600	P	130 20	+++ ++	160 28	160 26	170 26	170 24	180 15	170 06	320 21	310 23	250 38	170 35							
	251200	T	120 30	+++ ++	+++ ++	130 32	+++ ++	140 30	+++ ++	130 06	180 10	220 23	+++ ++	200 41	190 38	170 30					
	251800	P	100 30	+++ ++	120 44	130 48	140 42	130 37	130 42	130 36	150 29	130 36	130 33								
Ocean Weather Station 'J' 52°30'N 20°00'W	250000	T	150 41	+++ ++	140 75	140 69	150 54	150 48	150 41	150 44	150 39	160 46	190 46	200 36	210 29	210 32	210 26				
	250600	P	270 30	+++ ++	250 30	250 30	240 29	230 29	170 34	140 62	130 93	140 66	160 22	200 27	230 64	230 31	240 29				
	251200	T	240 20	+++ ++	230 15	220 16	230 14	230 15	200 13	170 12	170 35	210 29	240 36	230 38	240 44	250 26					
	251800	P	270 30	+++ ++	260 31	260 33	260 30	260 27	220 32	220 40	240 75	240 72	230 51	240 39	240 29	240 34	220 25				
LARKHILL 03743																					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE		SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf. 0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
251320	46.2°N 23.9°W	000	992	915	061 06	01- 000	04 04-	853 02- 04-	1305 05- 06-	1783 07- ++	11- 15-	2810 12- 39- 12- ++	3987 14- 17- 18- 23-	5346 23- 29-	
Cloud :— 2/8Cu. 2000 to 8000ft; 1/8Sc. 3500 to 4000ft; 2/8Sc. 4500 to 5000ft; 7/8Sc. 5000 to 6000ft; 8/8As. 10000ft. to T.N.R.															
Inversion Levels :—								Isothermal Levels :— 700 to 650mb -12°C							
YYGGgg	POSITION	PRESSURE		SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf. 0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
Cloud :—															
Inversion Levels :—								Isothermal Levels :—							
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AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	46
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropopause		Average Press.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
Upper		mb.	mb.	mb.	°C	°C	
Lower		98	...	72	...	-73	
		230	350	...	-52	...	
* V _R = Vector average wind. V _S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.							
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.							
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.							

The Atlantic trough persists with little change in the north but is moving slowly northeast in the southeast. The small low over southern Norway has continued to move steadily northwards with little change in intensity. The ridge over central Europe has declined a little with little or no movement in the south but slow eastward movement over Scandinavia.

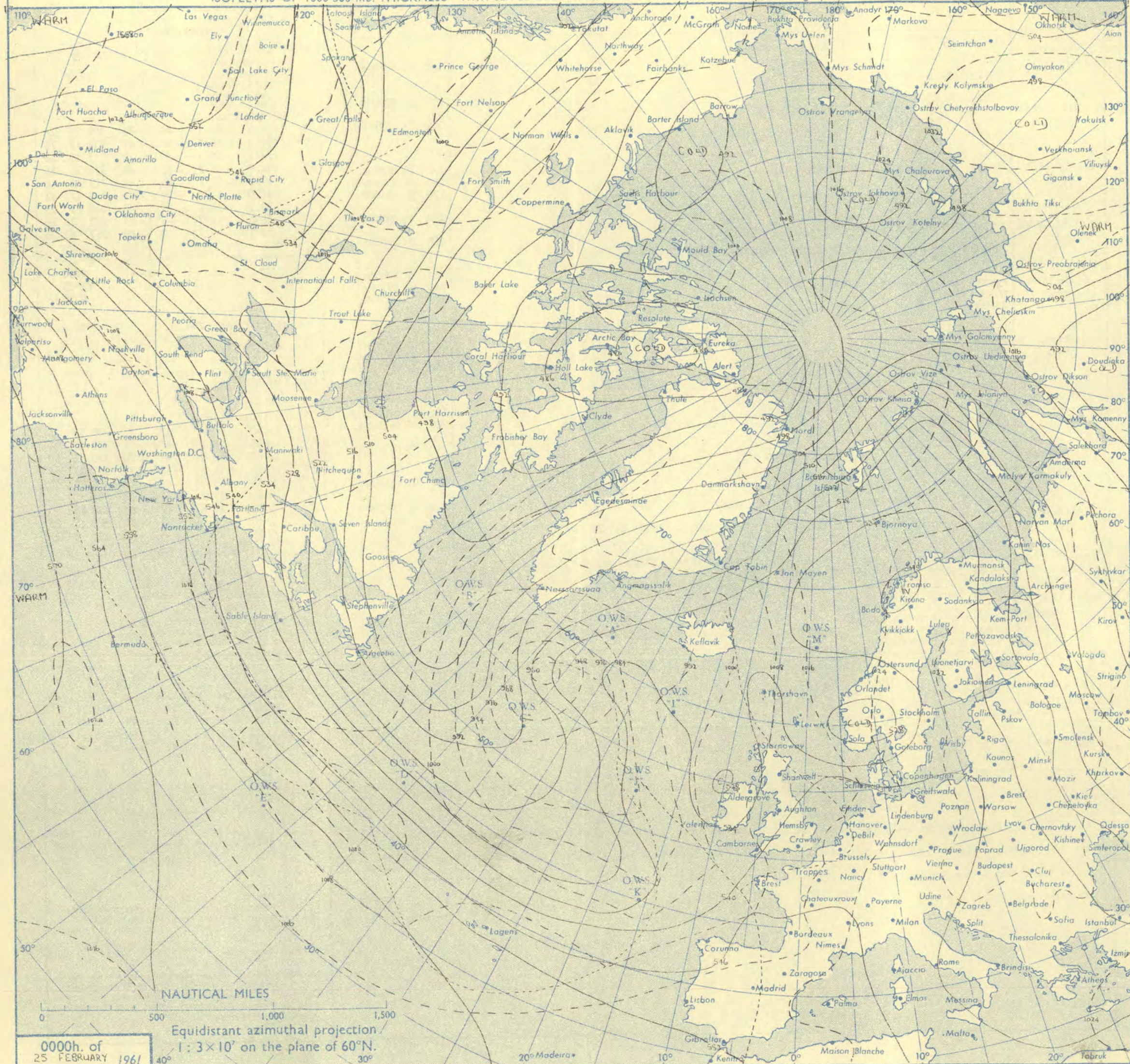
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. $51^{\circ} 12' N.$, Long. $01^{\circ} 48' W.$) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

Thickness isopleths in geopotential decametres

0000h. of
25 FEBRUARY 1961Equidistant azimuthal projection
1: 3 × 10⁷ on the plane of 60°N.

Isopleths in geopotential decametres



STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb		150mb		100mb		70mb		50mb		30mb					
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C						
LERWICK 03005	252333	082	07	06	035-	++	++	1284	00	03-	2819	07-	11-	5361	24-	30-	6949	37-	44-	8874	53-	++	11448	54-														
	261130	082	07	04	020-	++	++	1296	00	07-	2822	10-	21-	5331	26-	40-	6906	38-	++	8826	53-	++	11450	52-	13307	52-	15900	57-										
STORNOWAY 03026	252336	013	07	06	079-	++	++	1236	01-	02-	2761	10-	11-	5270	28-	31-	6826	42-	++	8707	54-	++	11337	51-	13198	54-												
	261130	NO ASCENT MADE																																				
SHANWELL 03170	252330	005	07	03	019-	++	++	1298	01-	07-	2816	12-	18-	5297	31-	36-	6839	41-	++	8779	45-	++	11470	49-	13348	54-	15930	55-	18172	59-	20261	61-						
	261130	005	08	03	055	07	03	1366	03-	06-	2884	07-	10-	5438	22-	25-	7043	34-	37-	8993	50-	++	11549	61-	13394	52-												
ALDERGROVE 03917	252330	077	05	01	004	++	++	1311	04-	09-	2815	14-	22-	5272	30-	38-	6839	37-	48-	8777	48-	++	11434	49-														
	261200	077	09	09	051-	++	++	1281	04	02	2829	05-	09-	5391	22-	42-	7000	33-	++	8958	49-	++	11560	51-	13443	50-	16062	55-	18333	57-								
AUGHTON 03322	252330	056	06	02	058	06	02	1374	03-	05-	2886	13-	21-	5376	25-	38-	6966	36-	++	8922	45-	++	11592	50-	13452	52-	16053	57-	18316	58-	20422	61-						
	261130	056	09	06	068	08	06	1390	01	01-	2934	05-	06-	5503	21-	24-	7113	33-	36-	9068	50-	++	11624	59-	13463	54-	16047	56-										
HEMSBY 03496	252330	012	07	05	121	08	05	1445	01	12-	2974	10-	20-	5479	25-	39-	7070	36-	++	8997	52-	++	11577	57-	13406	58-	15953	60-	18184	59-	20277	61-						
	261130	012	09	08	166	07	05	1494	01	05-	3031	06-	08-	5597	20-	23-	7205	34-	38-	9157	50-	++	11684	66-	13464	59-	15987	60-	18193	64-								
CRAWLEY 03774	260050	144	08	06	145	08	06	1469	01	03-	2998	11-	13-	5549	23-	36-	7145	35-	43-	9092	50-	++	11648	61-	13456	57-	16000	61-	18233	59-	20319	62-						
	261130	144	10	08	170	09	07	1499	01	02-	3039	05-	10-	5623	20-	23-	7242	32-	36-	9217	47-	++	11766	67-	13533	57-	16069	61-	18289	61-	20367	62-	23531	62-				
CAMBORNE 03808	252330	088	08	07	113	08	06	1433	01-	07-	2957	07-	20-	5517	22-	27-	7123	33-	35-	9083	49-	++	11649	62-	13464	57-	16027	59-										
	261130	088	11	10	088	11	10	1426	05	03	2989	04-	06-	5566	20-	23-	7178	32-	38-	9149	47-	++	11734	61-	13551	55-												
VALENTIA 03953	252333	014	07	02	045	06	++	1358	03-	08-	2868	12-	16-	5400	22-	33-	7000	34-	42-	8950	49-	++	11540	52-	++++	++	16010	55-										
	261150	014	09	05	031-	++	++	1287	01	03-	2828	04-	27-	5390	22-	44-	6990	36-	++	8920	52-	++	11530	49-	++++	++	16060	54-										
Ocean Weather Station 'I' 59°00'N 19°00'W	260000		07	01	128-	++	++	1185	04-	08-	2698	12-	23-	5180	30-	40-	6720	43-	++	8600	54-	++	11240	49-	13120	51-	15740	55-										
	261200		07	01	097-	++	++	1218	03-	06-	2724	13-	20-	5180	33-	39-	6710	47-	++	8620	43-	++	11350	43-	13280	45-	15950	50-	++++	++	20400	58-	23580	++				
Ocean Weather Station 'J' 52°30'N 20°00'W	260000		06	00	051-	++	++	1255	05-	08-	2748	16-	25-	5190	32-	41-	6750	39-	49-	8670	50-	++	11350	47-	12250	49-	15880	54-										
	261200		05	00	027-	++	++	1271	07-	12-	2758	17-	27-	3190	35-	44-	6720	44-	++	8640	45-	++	11360	43-	13290	46-	15950	52-	18230	57-	20370	57-						

STATION	ww N _h C _L hC _M C _H	PRESSURE																											TROPOPAUSE						
		MSL	Surf.	0°C level																									mb	m	°C				
LERWICK 03005	63 572++	995	986	839	970	++	03	912	02	00	704	07-	11-	541	20-	25-	501	24-	30-	377	40-	47-	287	55-	251	59-	198	54-	157	55-	251	10000	59-		
	01 42502	998	988	893 867	979 213	++ 51-	02 186	885 54-	01- 148	03- 52-	867 100	00 57-	04- 090	814 58-	02- 12-	603 19-	32- 579	19- 33-	433 43-	34- 49-	296 280	54- 51-	263 53-									296	08910	54-	
STORNOWAY 03026	61 5552+	990	989	880	985	++	04	876	00	01-	753	06-	07-	600	18-	20-	413	40-	43-	327	54-	315	55-	269	51-	145	54-					315	08390	55-	
SHANWELL 03170	01 35600	998	997	862	993 40-	07 46-	03 382	917 43-	++ 269	01 48-	892 235	++ 45-	03- 201	863 49-	++ 173	05- 49-	792 138	++ 57-	15- 100	636 55-	17- 082	22- 60-	600 073	21- 57-	30- 063	572 62-	++ 044	30- 63-	449 44-	39- 417	382 138	07130 13890	43- 57-		
	60 8734+	007	006	895	983 253	05 60-	01 226	850 62-	++ 216	06- 59-	825 200	04- 61-	09- 167	757 51-	08- 122	12- 52-	742	06-	09- 720	++ 09-	685	07- 11-	455	26- 29-	357	40- 43-					226	10790	62-		
ALDERGROVE 03917	01 15600	000	991	902	938 15- 242	++ 23- 49-	01 657 217	884 17- 51-	01- 23- 209	03- 544 49-	859 29- 160	++ 34- 53-	06- 528	839 30-	++ 36-	11- 515	808 29-	++ 36-	10- 473	770 31-	++ 40-	16- 399	748 37-	11- 48-	16- 331	732 46-	++ 309	15- 46-	713 294	++ 49-	21- 689	294	08900	49-	
	61 464++	994	985	792	912 51-	05 107	03 55-	857 082	04 55-	03 064	710 58-	05- 08-	08- 683	05- 13-	635	++ 25-	475	++ 45-	438	28- 49-	255	57- 228	58- 190	49- 127							255 107	10000 15620	57- 55-		
AUGHTON 03322	01 12540	007	000	888	980 390	06 37-	01 ++	885 287	00 47-	02- 226	835 50-	04- 210	06- 48-	819 179	04- 53-	08- 105	781 54-	06- 097	15- 59-	757 085	08- 55-	14- 043	610 62-	21- 30-	574	23- 32-	482	26- 39-			287 179	09210 12300	47- 53-		
	60 4732+	008	001	840	958 187	05 58-	04 172	913 53-	++ 100	02 56-	894	03	01	868	++ 02-	824	01- 02-	754	02- 03-	583	13- 15-	351	40- 43-	248	60- 233	61-					233	10660	61-		
HEMSBY 03496	02 00900	015	013	823	998 28-	08 43-	05 403	976 35-	07 49-	04 316	840 50-	++ 267	14- 57-	825 199	00 57-	15- 191	769 54-	++ 135	19- 58-	660 090	14- 60-	21- 043	625 63-	16- 566	25- 22-	566	22- 30-	522	23- 36-	462	267	09710	57-		
	21 4542+	020	019	832	996 32-	07 36-	05 355	968 40-	++ 43-	05 253	928 60-	06 207	01- 68-	840 195	00 65-	05- 189	808 61-	++ 132	03- 59-	797 124	01- 62-	04- 112	759 62-	04- 10-	06- 546	08- 15-	10- 18-	546 415			207 124	11460 14640	68- 62-		
CRAWLEY 03774	02 50930	018	000	839	993 13-	++ 27-	05 449	912 29-	++ 40-	03 357	886 40-	++ 46-	01- 278	762 54-	05- 231	10- 62-	694 198	11- 61-	13- 185	689 63-	++ 175	13- 56-	677 099	09- 62-	14- 085	654 58-	++ 053	24- 63-	631 039	++ 61-	28- 590	231	10770	62-	
	02 48439	021	003	835	001 11-	09 689	07 05-	965 09-	07 603	05 09-	922 12-	++ 337	02 ++	908 44-	06 291	03 48-	871 216	++ 66-	02 191	845 68-	++ 148	02- 57-	805 093	02- 61-	04- 041	770 62-	02- 035	07- 59-	752 030	++ 709	10- 062	191	12050	68-	
CAMBORNE 03808	25 22507	014	003	862	991 17-	08 26-	06 480	914 24-	03 27-	01 349	834 40-	02- 43-	08- 264	775 55-	++ 206	11- 64-	734 176	08- 56-	17- 117	714 57-	07- 099	19- 59-	655 076	09- 60-	23- 620	++ 21-	594	12- 22-	548	206	11440	64-			
	61 7722+	011	000	760	957 243	08 56-	07 205	935 62-	08 195	07 59-	860 182	05 61-	03 173	583 55-	12- 139	15- 57-	449 132	++ 54-	29- 32-	433	28- 39-	32- 341	398 40-	32- 45-	39- 305	341 46-	40- 252	45- 55-			205	11590	62-		
VALENTIA 03953	25 33500	006	004	890	975 49-	06 264	00 54-	893 230	00 59-	05- 196	746 51-	10- 169	14- 53-	727 104	10- 53-	14- 094	638 59-	18- 068	23- 59-	607	13- 552	23- 18-	552	18- 28-	530	19- 29-	357	41- 302			230 094	10600 16500	59- 59-		
	03 725++	997	995	827	920 54-	02 066	00 57-	874	00	02- 843	01	04- 766	04- 17-	730	02- 23-	503	21- 44-	393	37- 300	52- 266	57- 183	47- 099									266	09800	57-		
Ocean Weather Station 'I' 59°00'N 19°00'W	01 55470	984	984	910	840	04	09-	818	03-	11-	633	17-	30-	593	22-	34-	466	33-	43-	339	53-	323	55-	225	48-	110	53-	090	56-			323	08100	55-	
	25 49440	988	988	892	846	03-	07-	719	12-	19-	545	27-	34-	494	34-	40-	443	40-	46-	360	49-	325	44-	277	43-	183	43-	110	49-	034	61-	360	07400	49-	
Ocean Weather Station 'J' 52°30'N 20°00'W	03 42431	994	994	917	987 29-	++ 34-	02- 547	879 29-	03- 36-	08- 514	836 ++	++ 40-	08- 428	807 37-	++ 48-	13- 388	776 40-	++ 45-	15- 317	759 50-	++ 263	20- 50-	730 239	++ 45-	25- 102	676 54-	++ 27-	635 084	++ 53-	27- 564			317	08300	50-
	01 49500	997	997	941	967 42-	02 112	06- 49-	902 093	03- 56-	08- 056	802 55-	10- 037	17- 60-	722	16- 27-	576	28- 36-	454	40- 48-	367	47- 309	45- 286	43- 269	46- 195							367 093	07300 16400	47- 56-		

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	252333	T	130 24	+++ ++	160 39	160 36	160 31	160 29	160 36	150 39	150 39	150 49	160 49	190 44							
	260530	P	190 38	+++ ++	210 56	210 54	220 45	200 38	200 46	220 30	220 25	200 25	210 29	230 36	230 39	250 40					
	261131	P	210 31	+++ ++	240 49	240 43	230 38	220 38	220 40	250 47	260 77	250 85	240 51	230 46	240 32	240 40	240 39				
	261730	P	170 30	+++ ++	180 39	170 34	190 35	190 40	200 42	210 55	210 50	210 66	220 53	230 45	240 41	240 37	240 39				
STORNOWAY 03026	252336	T	160 02	+++ ++	180 24	190 25	170 14	160 16	160 20	150 18	140 23	140 31	200 27	220 34							
	260530								NO WINDS REPORTED												
	261130								NO WINDS REPORTED												
	261910	P	010 19	+++ ++	+++ ++	+++ ++	+++ ++	170 05	010 07	010 06	190 12	200 37	210 41	220 40	230 41						
SHANWELL 03170	252330	T	210 28	+++ ++	220 49	230 51	230 48	230 48	220 47	220 47	200 47	220 31	200 43	230 39							
	260530	P	230 28	+++ ++	250 46	250 45	240 45	250 45	260 57	260 84	270 99	260 102	270 71	280 61	290 67						
	261130	T	190 10	+++ ++	200 31	210 37	210 40	210 51	210 56	220 60	220 63	220 87	230 94	230 60	240 56						
	261745	P	230 30	+++ ++	230 56	240 58	230 58	220 72	220 73	210 73	210 81	200 75	220 70	230 60							
ALDERGROVE 03917	252330	T	210 20	+++ ++	240 45	240 45	240 40	240 37	230 33	240 50	260 84	260 79	250 61	230 45							
	260530	P	190 17	+++ ++	230 35	230 33	230 38	230 46	240 50	250 61	250 81	250 109	260 84	240 62							
	261200	T	160 37	+++ ++	180 65	200 72	200 67	200 68	210 65	220 74	220 73	210 70	220 72	220 63	230 42						
	261730	P	230 27	+++ ++	250 40	250 55	260 63	250 77	230 90	230 90	220 89	220 84	230 73	240 58	230 43	230 31	230 25				
AUGHTON 03322	252330	T	180 16	+++ ++	240 39	240 45	240 48	230 47	240 51	250 67	260 81	260 81	250 56	250 41	230 41	220 23	P220 23	210 24			
	260530	P	190 15	+++ ++	230 30	230 34	240 32	250 51	240 56	240 62	250 82	250 94	270 80	250 64	230 43	240 30	250 21				
	261130	T	150 15	+++ ++	190 61	200 64	220 62	230 64	230 60	230 58	220 66	220 72	230 87	240 71	220 42						
	261730	P	210 28	+++ ++	240 43	260 45	240 57	240 68	240 70	240 71	230 68	220 75	230 70	220 59	230 47	230 35					
HEMSBY 03496	252330	T	200 13	+++ ++	230 46	230 43	230 46	230 52	230 47	250 67	240 64	230 60	230 66	240 44	240 39	260 27	240 12	280 27			
	260530	P	210 14	+++ ++	230 30	240 36	250 41	250 48	250 48	250 48	270 65	270 80	270 70	270 56	270 31	260 24	270 28				
	261130	T	180 12	+++ ++	220 39	220 38	220 46	220 48	230 47	230 43	240 51	250 58	250 63	260 52	250 37	260 31					
	261730	P	200 23	+++ ++	220 55	230 50	230 50	240 45	230 47	230 58	240 68	230 75	230 76	240 62	260 32	250 26					
CRAWLEY 03774	252330	P	190 12	+++ ++	230 47	230 44	230 52	240 59	260 59	250 60	270 65	290 99	280 69	250 58	240 32	250 33	250 17	260 27	260 27	260 23	
	260540	P	180 12	+++ ++	230 32	240 35	240 39	240 43	240 45	240 46	260 49	260 64	260 60	250 61	270 34	260 22	260 24				
	261130	T	190 12	+++ ++	210 43	220 43	220 52	220 52	230 46	230 43	240 49	250 50	250 57	260 57	250 39	260 27	260 21	260 22	260 21	P280 33	
	261730	P	200 12	+++ ++	230 56	240 57	240 47	240 49	240 53	230 58	240 74	240 71	240 83	250 70	250 45	270 28					
CAMBORNE 03808	252330	T	230 12	+++ ++	240 32	240 42	240 48	240 53	250 57	250 65	260 75	260 86	270 82	250 80	260 42	270 24					
	260530	P	160 20	+++ ++	200 36	210 39	220 47	220 44	230 51	240 52	240 54	240 68	250 65	240 63	250 37	260 26					
	261130	T	180 25	+++ ++	220 65	230 63	240 58	240 59	240 64	230 72	230 80	230 86	230 90	250 76	240 42						
	261820	P	240 10	+++ ++	260 28	270 32	250 42	240 47	240 57	250 70	250 95	250 107	260 103	260 79	230 52						
VALENTIA 03953	252333	T	250 18	250 20	+++ ++	230 40	+++ ++	230 35	+++ ++	250 72	250 91	250 107									
	261158	P	225 40	+++ ++	260 65	260 65	240 64	240 78	230 86	230 81	230 87	240 87									
Ocean Weather Station 'I' 59°00'N 19°00'W	260000	T	240 24	+++ ++	+++ ++	240 28	+++ ++	180 22	+++ ++	140 44	120 66	150 55	+++ ++	200 40	220 38	260 80					
	260600	P	225 20	+++ ++	220 22	220 23	200 24	200 26	190 29	170 30	140 39	130 44	140 38								
	261200	T	190 18	+++ ++	+++ ++	190 20	+++ ++	190 21	+++ ++	220 37	200 33	190 40	+++ ++	200 32	200 35	200 32					
	261800	P	180 10	+++ ++	240 26	240 26	240 24	240 30	220 15	170 32	170 36	180 44	180 20	170 42	180 30	200 30					
Ocean Weather Station 'J' 52°30'N 20°00'W	260000	T	230 15	+++ ++	210 26	210 26	210 28	210 27	230 40	230 58	220 102	220 106	220 70	230 55	230 50	230 34					
	260600	P	270 30	+++ ++	260 25	250 28	250 24	220 24	180 33	200 40	200 67	210 67	210 60	230 45	230 46						
	261200	T	270 30	+++ ++	270 37	280 45	270 33	250 37	230 33	250 41	250 60	230 64	230 56	240 48	230 43	240 39	240 22	240 27			
	261800	P	270 30	+++ ++	250 43	150 47	260 46	250 46	240 43	240 57	240 70	240 70	240 57	240 48							
LARKHILL 03743																					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :— Inversion Levels :—														
Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :— Inversion Levels :—														
Isothermal Levels :—														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.												Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2		

STATION		MAX. WIND
LERWICK 03005	164mb 210 35 17100m 250 35 08100m 260 94 05500/3 09200/1 19800m 260 26	260 97 07980m 210 69 08950m
STORNOWAY 03026	160mb 230 37 15700m 240 39 03080/5 03420/5 06360/8 07010/0	
SHANWELL 03170	139mb 230 36 04670/0 09900/1 217mb 230 69 132mb 260 35 13300m 230 57	270 115 08450m 230 96 10370m 210 83 07480m
ALDERGROVE 03917	149mb 250 63 170mb 240 37 13500m 240 40 106mb 230 44 20100m 240 32 00750/0 02190/0 11500/1	260 85 07070m 250 120 09030m 220 81 05380m 220 94 06710m
AUGHTON 03322	P23100m 230 22 08580/0 10480/1 807mb 210 70 113mb 230 33 03960m 240 72	260 105 08650m 250 98 08780m 230 89 10340m 220 83 09720m
HEMSBY 03496	09810/1 11930/1 P18300m 260 14 13180m 250 45 17100m 270 28 00770/0 01120/1 11810/1	250 73 06420m 280 86 09630m 250 67 10420m 240 77 10650m
CRAWLEY 03774	08100m 280 89 09900m 290 89 07690/0 08000/0 08550/0 09130/0 09330/1 09920/0 10390/1 19500m 270 18 12850/1 14650/1 P28500m 290 39 13200m 260 43 02220/1 03260/0 11910/1 13330/1	290 111 08770m 270 67 09000m 260 65 11300m 240 84 10930m
CAMBORNE 03808	185mb 250 60 080mb 240 30 12830m 250 46 17700m 240 26 12430/1 14850/1 902mb 220 70 136mb 250 44 14700m 230 56 10600/1	260 98 08410m 240 71 08970m 240 104 10910m 260 120 10400m
VALENTIA 03953	893mb 230 36 746mb 230 38 607mb 250 59 00300m 250 51 00600m 250 57 09600m 240 77	250 114 08420m 230 98 07770m
Ocean Weather Station 'I' 59°00'N 19°00'W	593mb 160 20 466mb 120 57 339mb 140 62 225mb 180 40 110mb 250 59 00300m 220 23 00600m 220 28 545mb 200 24 443mb 210 44 325mb 200 47 277mb 180 34 110mb 200 39 00300m 220 15 00600m 220 15	260 80 15800m
Ocean Weather Station 'J' 52°30'N 20°00'W	441mb 220 78 06640/0 08120/1 08350/2 08910/1 12900m 250 41 07520/0	220 133 07200m 210 88 08650m 230 75 08620m 240 82 07750m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The trough which was over the Middle West of the United States yesterday has moved east and has formed a separate centre near the east coast. The low centre over the Atlantic has moved northeast and declined a little. A ridge persists from north Africa to Finland and the small low which was over southern Norway yesterday has moved to near North Cape.

AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	28
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	46
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		98	-63.6	...	72	...	-73
		230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. $51^{\circ} 12' \text{ N.}$, Long. $01^{\circ} 48' \text{ W.}$) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

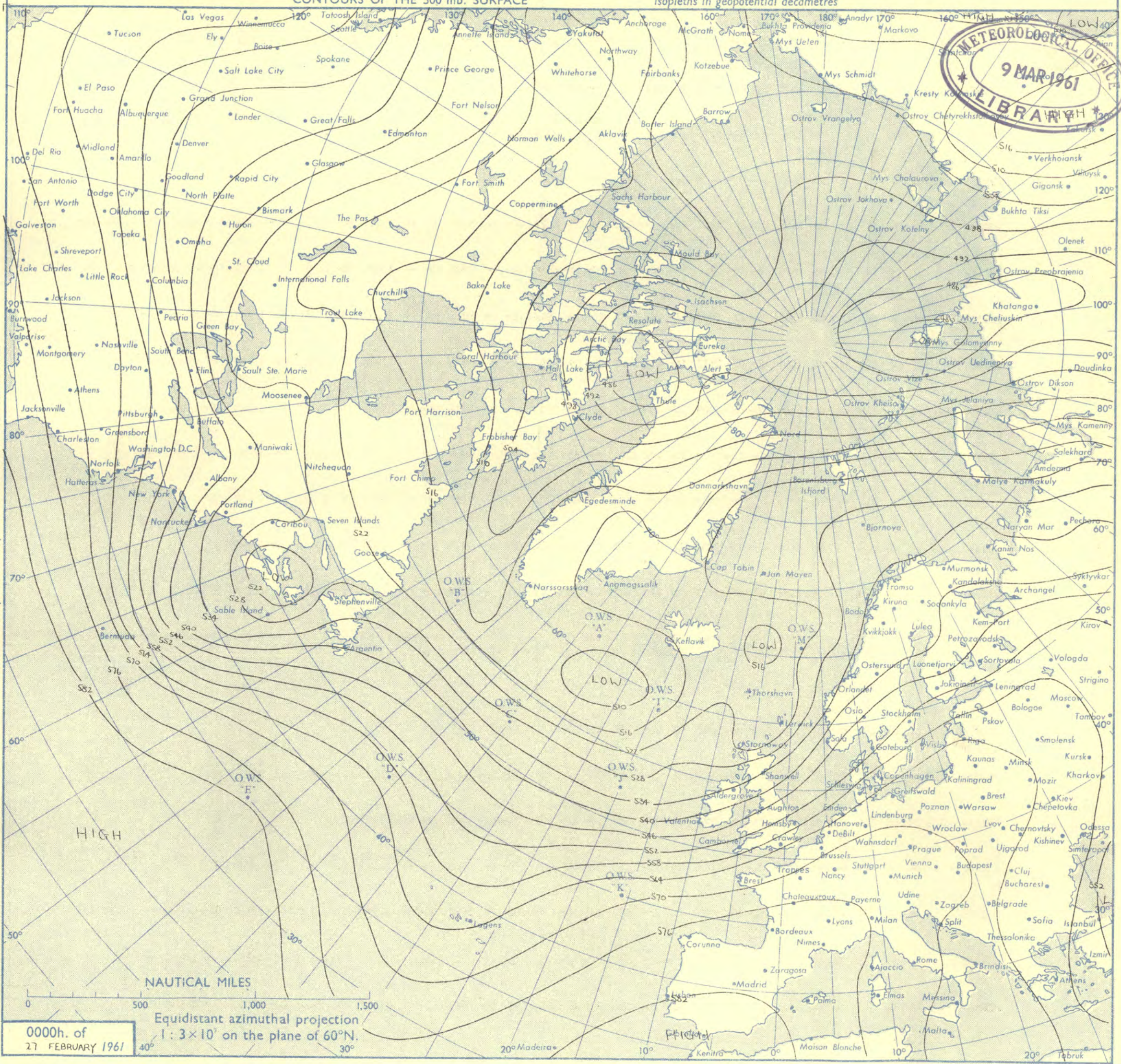


CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



All times of observation printed in this publication are GREENWICH MEAN TIME.



NAUTICAL MILES

0000h. of
27 FEBRUARY 1961

Equidistant azimuthal projection
1 : 3 × 10⁷ on the plane of 60°N.

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb								
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C												
LERWICK 03005	262330	082	06	03	179	-	++	++	1132	03	-	06	2652	09	-	13	5167	26	-	40	6742	38	-	++	8682	47	-	++	11350	47	-	13233	51	-	15831	57	-	18072	60	-	20148	63	-	23263	67	-
	271130	082	06	03	003	++	++	++	1309	05	-	09	2809	15	-	23	5253	36	-	42	6764	48	-	++	8655	48	-	++	11345	47	-	13238	49	-												
STORNOWAY 03026	270029	013	05	04	016	-	++	++	1284	06	-	07	2777	16	-	20	5209	36	-	40	6719	48	-	++	8602	49	-	++	11272	49	-	13146	52	-												
	271252	013	05	01	040	05	01		1346	05	-	07	2840	16	-	25	5268	37	-	45	6769	47	-	++	8655	48	-	++	11328	49	-															
SHANWELL 03170	270029	005	05	02	034	05	02		1341	03	-	08	2847	13	-	25	5322	29	-	43	6879	40	-	++	8805	47	-	++	11440	54	-	13316	47	-	15935	60	-	18182	55	-	20286	61	-			
	271130	005	07	04	105	07	04		1416	04	-	08	2922	13	-	20	5388	30	-	36	6938	42	-	++	8849	49	-	++	11498	51	-	13359	51	-	15981	55	-	18234	61	-	20327	64	-	23487	65	-
ALDERGROVE 03917	262330	077	04	00	087	04	01	-	1386	05	-	11	2882	14	-	25	5357	28	-	39	6915	41	-	++	8824	52	-	++	11468	49	-	13361	50	-	15969	58	-	18214	58	-						
	271130	077	07	02	125	06	01		1434	03	-	07	2937	14	-	17	5412	30	-	39	6963	42	-	++	8865	42	-	++	11462	51	-	13345	51	-	15926	58	-	18181	60	-						
AUGHTON 03322	262330	056	07	04	128	07	02		1440	04	-	08	2943	12	-	25	5455	27	-	38	7019	40	-	50	8922	54	-	++	11522	52	-	13367	56	-	15925	56	-	18164	62	-						
	271130	056	08	03	166	06	03		1475	03	-	12	2982	14	-	22	5475	27	-	33	7061	35	-	39	9006	50	-	++	11576	56	-	13424	53	-	16032	54	-	18279	61	-						
HEMSBY 03496	262330	012	10	05	144	09	04		1473	03	-	02	3023	04	-	29	5580	23	-	46	7174	35	-	++	9115	51	-	++	11669	58	-	13493	55	-	16052	61	-									
	271130	012	09	04	195	07	03		1506	03	-	12	3034	10	-	16	5568	22	-	24	7172	34	-	36	9122	50	-	++	11676	67	-	13464	58	-	16025	57	-									
CRAWLEY 03774	262334	144	08	07	179	08	06		1501	02	-	06	3051	05	-	17	5626	20	-	35	7236	33	-	45	9191	49	-	++	11744	63	-	13539	56	-	16103	59	-	18315	61	-	20400	61	-			
	271130	144	08	07	201	07	05		1516	01	-	09	3042	07	-	11	5617	20	-	24	7232	32	-	36	9195	48	-	++	11737	68	-	13529	57	-	16076	59	-	18295	59	-	20395	59	-	23586	60	-
CAMBORNE 03808	262330	088	07	05	183	07	04		1501	02	-	08	3031	06	-	25	5589	21	-	35	7194	34	-	40	9145	50	-	++	11691	61	-	13506	56	-	16069	60	-	18280	61	-	20363	61	-			
	271155	088	07	06	186	05	03		1491	03	-	04	3015	06	-	07	5586	19	-	22	7203	32	-	36	9169	47	-	++	11741	61	-															
VALENTIA 03953	262333	014	07	02	137	06	01		1444	04	-	10	2950	14	-	24	5440	28	-	42	7010	39	-	46	8920	51	-	++	11540	50	-	++++	++	16010	55	-										
	271130	014	09	05	146	07	03		1450	03	-	06	2964	13	-	17	5460	27	-	41	7040	34	-	42	9000	48	-	++	11620	51	-															
Ocean Weather Station 'I' 59°00'N 19°00'W	270001		06	00	083	-	++	++	1226	04	-	08	2725	15	-	21	5160	36	-	40	6660	50	-	++	8560	44	-	++	11300	44	-	13220	47	-	15870	52	-									
	271200		07	01	121	-	++	++	1199	01	-	07	2715	11	-	18	5190	31	-	38	6740	42	-	++	8660	44	-	++	11390	44	-	13300	47	-	15950	52	-	++++	++	20360	49	-	23530	64	-	
Ocean Weather Station 'J' 52°30'N 20°00'W	270001		07	02	043	07	00		1351	05	-	11	2846	16	-	27	5290	32	-	47	6840	43	-	++	8720	51	-	++	11400	46	-	13310	48	-	15950	53	-	18230	55	-						
	271200		06	01	077	06	01		1381	05	-	11	2874	14	-	20	5340	33	-	45	6890	37	-	49	8860	45	-	++	11530	46	-	13430	51	-	16050	55	-	18320	58	-						

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 67400	978	969	895	961 ++ 02 883 01- 04- 845 03- 06- 832 02- 06- 775 06- 09- 704 09- 13- 614 17- 22- 562 ++ 32- 504 25- 39- 424 35- 48- 323 46- 255 51- 245 47- 219 49- 194 47- 172 51- 154 50- 100 57- 073 59- 064 63- 050 63- 030 67-	255	09730	51-
	02 59403	000	990	920	987 05 02 897 ++ 04- 850 05- 09- 846 ++ 09- 816 ++ 09- 781 ++ 15- 767 10- 15- 751 ++ 15- 739 11- 15- 626 ++ 31- 551 ++ 35- 464 40- 46- 427 45- 377 50- 355 47- 329 50- 272 46- 216 46- 112 52-	377	07130	50-
STORNOWAY 03026	61 3742+	998	997	935	980 03 01 798 09- 10- 755 ++ 16- 705 ++ 19- 537 32- 35- 466 40- 44- 404 48- 396 47- 345 52- 270 48- 192 49- 109 55-	345	07690	52-
	25 29402	005	003	917	842 ++ 07- 798 ++ 13- 780 ++ 16- 745 ++ 18- 674 19- 31- 630 ++ 33- 610 ++ 37- 553 ++ 38- 477 40- 48- 410 49- 392 47- 333 52- 308 48- 175 51- 165 49-	410	06590	49-
SHANWELL 03170	02 38500	004	004	910	810 06- 11- 745 ++ 21- 602 22- 35- 505 28- 42- 448 35- 49- 391 41- 380 41- 312 48- 293 47- 207 55- 174 52- 163 47- 133 48- 105 60- 085 60- 075 53- 056 62- 043 59- 033 65-	208	11190	55-
	02 7253+	013	012	900	960 ++ 01- 921 ++ 02- 813 06- 09- 779 08- 13- 716 ++ 21- 649 18- 22- 566 26- 30- 543 27- 34- 509 ++ 35- 464 34- 41- 413 40- 46- 358 47- 282 50- 208 50- 179 54- 129 51- 100 55- 084 56- 077 60- 066 61- 058 58- 051 64- 041 61- 030 65-	282	09250	50-
ALDERGROVE 03917	02 56600	011	001	939	990 03 00 946 ++ 02- 820 07- 13- 773 10- 14- 753 11- 18- 723 ++ 22- 680 15- 26- 628 ++ 30- 593 24- 34- 534 24- 36- 364 46- 290 52- 180 47- 135 50- 096 59- 060 57-	290	09050	52-
	25 38501	015	006	904	002 06 01 924 ++ 01- 801 07- 12- 744 10- 14- 713 14- 16- 694 14- 17- 620 ++ 23- 599 22- 28- 569 23- 32- 413 ++ 48- 385 44- 342 46- 289 56- 256 56- 194 49- 158 50- 131 56- 094 59- 089 55- 066 61- 060 59-	289	09090	56-
AUGHTON 03322	02 35500	016	009	900	999 07 01 994 ++ 00 770 10- 14- 762 ++ 14- 730 12- 20- 686 12- 27- 593 17- 30- 562 ++ 30- 478 30- 42- 401 40- 50- 313 53- 252 56- 219 52- 118 59- 093 55- 089 58- 073 62- 057 59-	287	09200	55-
	02 856++	021	014	902	973 04 02- 877 02- 09- 855 02- 11- 823 ++ 14- 796 ++ 16- 653 17- 25- 631 16- 27- 568 22- 34- 531 26- 34- 511 26- 32- 460 29- 34- 357 40- 43- 307 49- 245 60- 226 61- 209 56- 170 53- 102 54- 071 61- 063 57- 056 58-	245	10300	60-
HEMSBY 03496	02 45578	018	016	818 761	009 10 05 934 05 02- 905 ++ 08- 864 ++ 08- 850 03 02- 814 00 02- 787 02 11- 778 ++ 17- 699 ++ 30- 567 15- 41- 458 28- 49- 337 44- 243 62- 145 55- 101 61- 088 62-	243	10460	62-
	02 4651+	024	022	902	979 05 01 937 ++ 06- 892 ++ 11- 867 ++ 10- 844 ++ 12- 790 06- 16- 736 07- 19- 670 13- 17- 614 14- 16- 501 22- 24- 365 39- 41- 293 51- 249 57- 188 69- 181 60- 160 56- 100 57-	188	12050	69-
CRAWLEY 03774	02 00907	022	004	772	998 ++ 05 914 ++ 01 899 02 02- 881 ++ 06- 833 02 05- 766 ++ 10- 745 ++ 14- 586 12- 27- 492 21- 36- 375 ++ 49- 363 39- 228 63- 193 64- 159 57- 107 58- 077 63- 067 61- 040 63-	228	10920	63-
	02 4247+	025	007	878	988 06 04 957 ++ 03 903 ++ 06- 845 ++ 10- 814 ++ 07- 783 05- 14- 760 05- 17- 716 09- 14- 694 07- 11- 666 06- 08- 529 17- 20- 418 ++ 34- 350 40- 46- 216 66- 199 68- 169 57- 101 59- 085 63- 057 59- 030 60-	199	11770	68-
CAMBORNE 03808	03 11577	022	012	880	987 08 05 948 ++ 00 889 ++ 02- 848 02- 09- 715 05- 24- 515 20- 36- 401 34- 40- 355 40- 46- 250 61- 229 64- 147 55- 087 63- 050 61-	229	10850	64-
	61 3732+	023	012	935	988 04 02 930 00 01- 886 00 01- 768 07- 08- 739 07- 08- 701 06- 07- 530 16- 19- 346 40- 44- 219 63- 202 63- 198 59- 164 53- 155 55-	219	11180	63-
VALENTIA 03953	03 52500	017	015	910	868 03- 07- 798 07- 19- 719 12- 23- 638 20- 30- 596 18- 29- 502 28- 42- 371 43- 283 53- 237 55- 198 49- 107 54- 074 57-	283	09600	53-
	01 4957+	017	016	890	992 07 03 792 07- 12- 604 20- 24- 561 21- 34- 510 25- 40- 455 32- 46- 401 34- 42- 273 52- 244 56- 207 51- 161 53- 110 50-	244	10400	56-
Ocean Weather Station 'I' 59°00'N 19°00'W	15 59400	989	989	910	989 06 00 800 08- 12- 740 11- 18- 580 26- 31- 473 39- 43- 408 50- 377 51- 333 46- 245 41- 117 50-	377	06900	51-
	25 69400	985	985	865	753 07- 14- 615 19- 26- 496 32- 39- 462 35- 42- 388 44- 331 47- 291 42- 209 43- 132 49- 075 55-	331	08000	47-
Ocean Weather Station 'J' 52°30'N 20°00'W	01 22500	005	005	918	915 00 04- 876 ++ 11- 804 09- 14- 786 09- 18- 765 10- 24- 710 15- 26- 670 ++ 32- 562 29- 41- 515 31- 47- 421 40- 46- 330 52- 282 51- 258 47- 205 46- 087 55- 056 57-	330	08100	52-
	27 29460	009	009	923	956 02 02- 848 05- 10- 797 ++ 12- 732 15- 18- 704 14- 18- 693 ++ 24- 655 18- 29- 605 21- 32- 539 29- 40- 499 33- 45- 420 39- 50- 381 36- 49- 271 49- 231 49- 223 46- 112 52- 096 56- 056 60-	271	09500	49-
						096	16300	56-

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
271330	41.5°N 13.6°W	026 018 725	061 13 13	213	12 12	1097 09 09	1567 07 04	2067 05 01	02 01	3146 02- 05- 05- ++	4353 09- ++	13- ++	5739 18- ++	
Cloud :— 1/8st. H.N.G. to 500ft; 1/8Cb. HNG to 15000ft; 1/8Ac. 10000 to 12000ft; 1/8Ci. at 20000ft. Inversion Isothermal Levels :— Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :— Inversion Isothermal Levels :— Levels :—														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.										Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2				

STATION		MAX. WIND
LERWICK 03005	20400m 250 42 21900m 250 50	
STORNOWAY 03026	335mb 220 31 115mb 240 42 P16400m 240 31 17400m 270 37	
SHANWELL 03170	15000m 250 71 05500/0 06300/1 08660/0 09800/1 12800/1 04700/0 07200/1 08180/0 13800/1 17650/0	240 84 06070m 260 117 07050m 250 114 08940m 240 90 08430m
ALDERGROVE 03917	170mb 240 72 13500m 250 53 352mb 240 112 130mb 250 42 19750m 260 26 07730/0 09490/1	240 101 07250m 250 117 09250m 240 138 09060m 240 86 09220m
AUGHTON 03322	233mb 240 80 11100m 260 101 20100m 260 49 06370/0 07120/0 07490/0 09320/0 10840/1 11110/1 454mb 240 87 215mb 250 95 11100m 240 82 03880/5 05680/0 06680/0 10390/1 11130/1 11680/1	250 123 09230m 250 154 09650m 250 133 10100m 230 114 09570m
HEMSBY 03496	12600m 260 62 15110m 250 51 11630/1 12080/1	260 104 08190m 270 116 10340m 250 108 11210m 240 93 10520m
CRAWLEY 03774	157mb 250 59 13000m 270 54 05720/0 13000/1 160mb 250 57 01730/0 12130/1	260 104 09800m 250 100 12060m 250 99 11420m 240 87 11000m
CAMBORNE 03808	223mb 260 106 15600m 270 43 04590/0 05020/0 12100/1 278mb 240 97 12600m 250 59 02600/5 05030/0	250 114 09900m 250 111 09920m 230 87 06250m 220 97 09930m
VALENTIA 03953	798mb 260 36 596mb 250 63 283mb 240 138 792mb 250 25 604mb 230 39 244mb 230 123	240 140 08860m 230 136 09410m
Ocean Weather Station 'I' 59°00'N 19°00'W	989mb 200 23 740mb 210 27 580mb 210 30 245mb 230 28 117mb 240 30 00300m 200 32 00600m 200 30 08400m 250 48 753mb 230 52 615mb 230 50 00300m 300 42 00600m 300 50 08700m 300 68	230 86 06750m
Ocean Weather Station 'J' 52°30'N 20°00'W	13690/1 348mb 300 84 060mb 260 35 18000m 280 35 22400/1	250 95 08250m 230 61 06890m 310 122 08740m 300 92 09390m
LARKHILL 03743	13110m 260 58 04760/0 12800m 240 62	260 106 10400m 240 120 10700m

NOTES ON THE AEROLOGICAL SITUATION

The low which was over the east of the United States yesterday has moved northeast with little development while the Atlantic low has moved east and filled. The ridge from Spain to western Russia has persisted and swung a little eastwards in the north.

AVERAGE AND EXTREME VALUES 1951-55
FEBRUARY

LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...
60	18945	-60.1	-46	-71	309 24	26
100	15745	-58.1	-46	-79	304 17	25
150	13175	-55.3	-42	-72	311 18	28
200	11350	-56.7	-42	-70	318 20	35
300	8770	-52.7	-43	-61	322 21	46
400	6870	-41.4	-31	-56	315 17	42
500	5320	-30.1	-19	-43	308 13	35
700	2845	-13.7	-2	-23	292 7	26
850	1345	-5.7	4	-13	257 4	25

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	267	-60.4	9960
Max.	422	-43	12955
Min.	160	-75	6250

LARKHILL/CRAWLEY† at 03, 15h.
(Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N.,
Long. 00° 13' W.)

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...
60	19050	-60.1	-52	-73	308 18	25
100	15855	-58.1	-47	-71	307 20	28
150	13285	-55.5	-44	-70	310 25	34
200	11455	-56.9	-43	-72	313 27	41
300	8875	-52.2	-43	-61	315 28	52
400	6965	-39.9	-28	-54	309 23	44
500	5405	-28.2	-17	-41	306 18	35
700	2910	-11.2	2	-22	304 12	25
850	1395	-3.4	6	-15	302 8	22

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	264	-59.7	9835
Max.	456	-42	14355
Min.	126	-76	5850

MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	(15)
60	19250	-64.4	-59	-73	270 28	31
100	16115	-62.3	-55	-69	270 49	52
150	13575	-56.8	-47	-66	270 66	69
200	11740	-55.7	-43	-68	270 71	77
300	9125	-47.2	-37	-56	270 58	71
400	7165	-33.6	-26	-46	270 45	56
500	5565	-22.0	-13	-33	270 36	45
700	3005	-5.0	6	-13	275 23	30
850	1455	3.7	21	-3	275 17	24

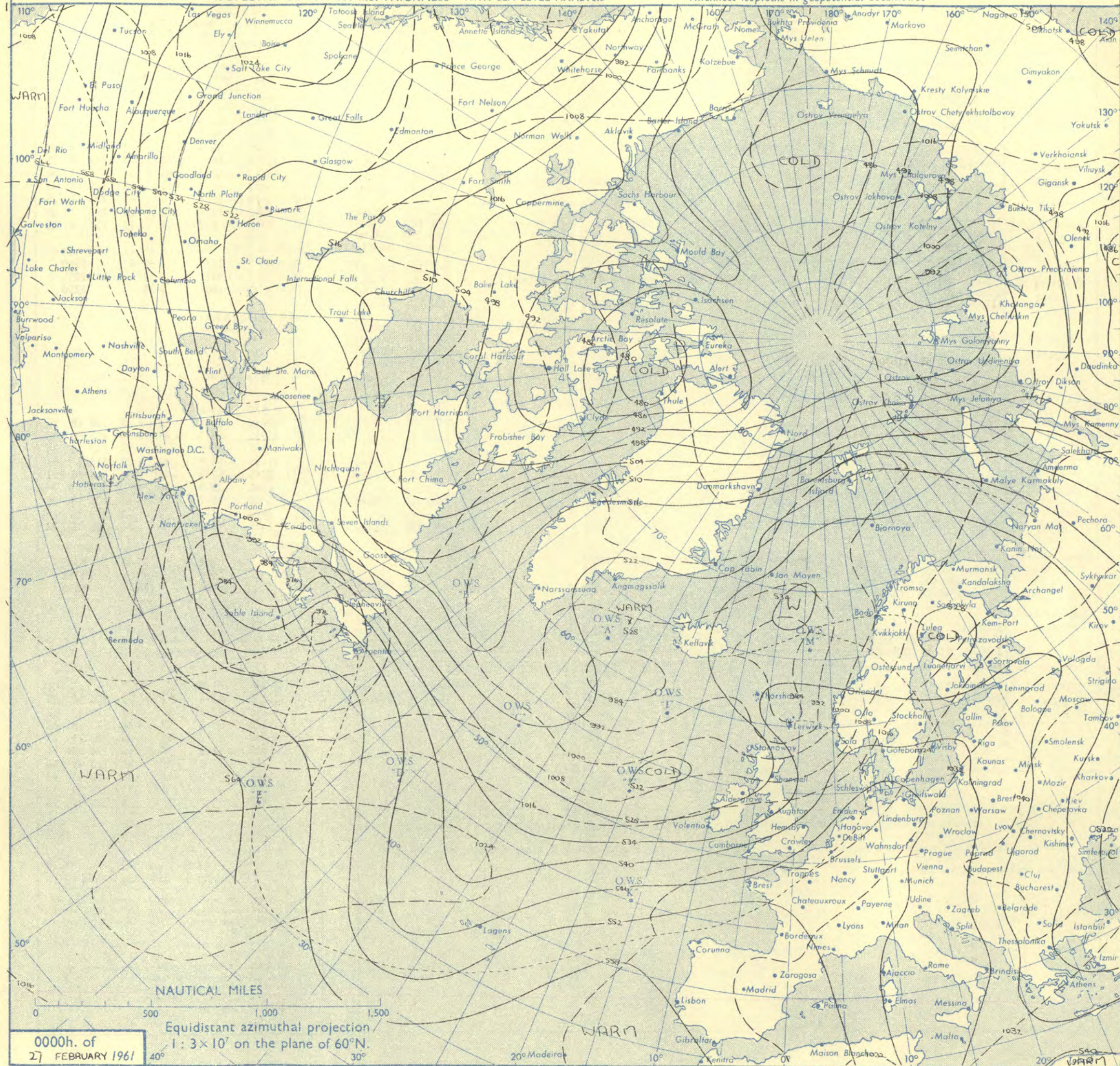
Tropo- pause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	98	-63.6	...	72	...	-73
Lower	230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed.
Average winds are based on observations at Lerwick,
Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at
03, 15h.

† Observations were made at Larkhill (Lat. 51° 12' N.,
Long. 01° 48' W.) up to 28th April, 1953.

Notes: No vector average winds and no extreme values
for any element are given for less than 10 observations.
Otherwise no averages are given for less than 3 observa-
tions and average values based on less than 10 observa-
tions are given in brackets.

Thickness isopleths in geopotential decametres

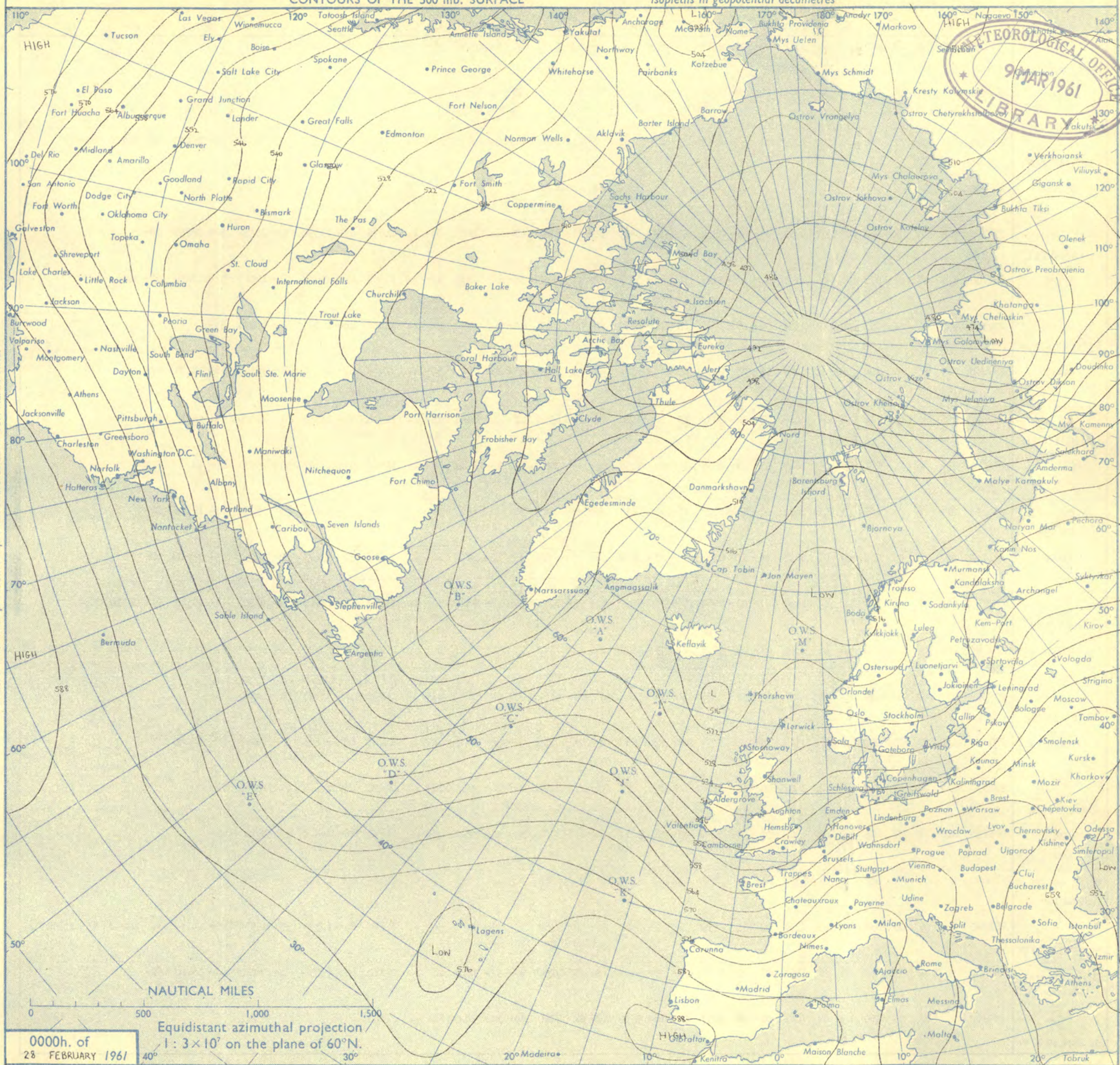


CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



All times of observation printed in this publication are GREENWICH MEAN TIME.



STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb		150mb		100mb		70mb		50mb		30mb	
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C		
LERWICK 03005	272328	082	05	02	007	++	++	1318	03-	07-	2828	13-	20-	5292	34-	43-	6821	44-	++	8698	56-	++	11331	50-	13212	50-								
	281130	082	07	04	001-	++	++	1305	04-	10-	2808	14-	23-	5265	34-	47-	6785	45-	++	8695	47-	++	11384	48-	13263	53-								
STORNOWAY 03026	272330	013	05	01	012	++	++	1320	04-	08-	2819	15-	23-	5261	35-	41-	6785	44-	++	8679	48-	++	11375	47-	13270	50-	15881	56-	18130	59-	20220	62-		
	281130	NO ASCENT MADE																																
SHANWELL 03170	272355	005	04	04	060	05	03	1371	03-	06-	2884	12-	18-	5359	32-	37-	6894	42-	++	8801	51-	++	11493	45-	13390	52-	16002	56-	18256	58-				
	281140	005	08	01	073	08	01	1388	02-	10-	2899	12-	23-	5371	32-	41-	6935	36-	47-	8885	49-	++	11529	49-	13418	51-	16011	58-	18238	63-	20281	68-		
ALDERGROVE 03917	272330	077	04	01-	093	04	00	1391	06-	08-	2887	15-	30-	5350	30-	42-	6904	41-	++	8834	48-	++	11501	48-	13371	53-	15974	56-						
	281130	077	05	04	144	05	02	1449	02-	03-	2974	09-	10-	5514	22-	25-	7122	33-	38-	9074	50-	++	11639	57-	13464	54-	16147	56-	18271	62-				
AUGHTON 03322	272330	056	05	03	116	06	04	1429	03-	04-	2937	13-	16-	5412	31-	35-	6963	41-	++	8896	45-	++	11578	47-	13463	51-	16074	56-	18313	58-				
	281130	056	08	05	157	06	03	1460	05-	08-	2958	13-	17-	5454	25-	30-	7050	35-	47-	8980	52-	++	11560	53-	13402	54-	15970	61-						
HEMSBY 03496	280053	012	04	03	114	03	01	1414	04-	05-	2922	11-	12-	5438	24-	26-	7025	36-	38-	8955	52-	++	11560	53-	13414	53-	15985	59-	18212	61-				
	281130	012	08	03	148	06	01	1453	04-	10-	2955	15-	23-	5409	32-	36-	6979	35-	42-	8934	48-	++	11562	52-	13423	52-	15990	59-	18206	62-				
CRAWLEY 03774	272330	144	02	02	130	++	++	1434	01-	02-	2962	08-	10-	5509	23-	26-	7111	33-	37-	9061	50-	++	11669	54-	13520	53-	16100	58-	18328	61-	20414	60-		
	281245	144	09	03	198	08	01	1509	03-	09-	3025	10-	16-	5550	26-	28-	7157	33-	42-	9109	50-	++	11685	57-	13520	55-	16090	60-	18308	61-	20402	60-	23579	59-
CAMBORNE 03808	272330	088	08	07	172	07	05	1486	03-	07-	2996	12-	17-	5484	29-	38-	7062	33-	46-	9032	47-	++	11669	52-	13521	54-	16096	58-						
	281130	088	10	08	240	08	06	1557	01-	05-	3097	06-	12-	5659	22-	26-	7269	32-	36-	9234	48-	++	11783	68-	13565	59-	16099	62-	18284	65-				
VALENTIA 03953	272330	014	08	03	157	07	02	1467	04-	09-	2976	12-	26-	5490	23-	28-	7090	33-	40-	9050	50-	++	11630	55-	+++++	++	16060	59-						
	281130	014	10	07	215	09	07	1544	01	03-	3094	05-	14-	5680	18-	23-	7300	30-	34-	9290	45-	++	11870	66-	+++++	++	16190	61-						
Ocean Weather Station 'I' 59°00'N 19°00'W	280000		07	00	008	08	++	1322	03-	++	2832	13-	++	5320	23-	++	6930	32-	++	8890	49-	++	11510	49-	13390	51-	16000	56-						
	281200		07	06	038	07	05	1358	01	00	2899	06-	14-	5460	20-	24-	7080	33-	39-	9030	50-	++	11570	60-	13390	56-	15950	59-	+++++	++	20250	63-	23370	++
Ocean Weather Station 'J' 52°30'N 20°00'W	280000		10	09	138	09	06	1463	01	02-	3006	05-	09-	5600	18-	25-	7230	29-	37-	9220	44-	++	11830	63-	13630	54-	16210	60-	18430	60-				
	281200		11	09	160	09	07	1481	01-	02-	3037	04-	18-	5630	18-	22-	7260	30-	33-	9240	44-	++	11850	63-										

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE			
		MSL	Surf.	0°C level		mb	m	°C	
LERWICK 03005	02 28400	001 991 900	984 06 03 933 02 00 895 ++ 04- 846 ++ 07- 808 05- 12- 758 ++ 20- 699 ++ 20- 683 ++ 23- 616 ++ 31- 466 38- 47- 394 45- 358 50- 297 56- 279 56- 252 49- 159 49- 120 53-			297	08780	56-	
	02 32500	000 990 919	980 04 01 825 ++ 10- 800 ++ 11- 635 ++ 34- 591 24- 39- 460 39- 50- 415 46- 252 46- 141 53- 125 56-			415 :125	06510 +++++	46- 56-	
STORNOWAY 03026	03 12532	001 000 906	865 ++ 07- 806 ++ 13- 670 ++ 26- 600 ++ 30- 536 31- 37- 444 40- 46- 408 45- 395 44- 324 52- 270 45- 167 48- 094 58- 042 63-			324	08170	52-	
SHANWELL 03170	02 655++	007 007 900	993 05 03 985 ++ 02 810 05- 18- 754 08- 13- 648 16- 22- 438 40- 46- 410 42- 394 42- 323 50- 300 51- 263 46- 181 46- 149 52- 130 52- 100 56- 056 59-			323 149	08320 13440	50- 52-	
	02 18530	009 008 884	900 01 05- 738 ++ 22- 683 14- 26- 596 22- 34- 501 32- 42- 413 35- 46- 362 39- 50- 302 49- 274 52- 239 50- 188 48- 149 51- 131 55- 120 55- 100 58- 078 60- 063 66- 050 68-			274 131 (063)	09450 14300 18890	52- 55- 66-	
ALDERGROVE 03917	03 35600	012 002 935	965 ++ 00 855 06- 08- 800 ++ 11- 765 10- 17- 740 ++ 24- 630 ++ 37- 565 27- 37- 537 26- 37- 461 34- 46- 382 43- 317 45- 276 51- 205 47- 170 52- 097 56-			276 170	09390 12560	51- 52-	
	63 564++	018 008 932	000 ++ 02 932 00 01- 768 05- 06- 560 18- 20- 506 23- 25- 497 22- 25- 357 ++ 46- 302 50- 231 62- 202 57- 190 59- 148 54- 122 57- 107 55- 085 62- 077 63- 060 61-			231 085	10770 17070	62- 62-	
AUGHTON 03322	01 50970	014 007 891	991 06 04 775 ++ 09- 712 ++ 16- 663 16- 18- 590 22- 27- 518 ++ 33- 403 40- 46- 334 45- 295 44- 253 48- 198 47- 111 54- 089 60- 062 57-			334 253 089	08170 10040 16800	45- 48- 60-	
	21 855++	019 012 927	935 01 01- 817 07- 10- 800 ++ 13- 767 11- 15- 757 10- 14- 742 ++ 15- 670 15- 19- 573 22- 25- 545 22- 25- 506 26- 30- 496 24- 30- 476 25- 34- 462 ++ 36- 368 40- 315 50- 254 59- 198 52- 179 56- 131 54- 100 61- 097 59- 093 62- 075 63-			254 (093)	10050 16420	59- 62-	
HEMSBY 03496	61 664++	014 013 927	002 03 01 919 ++ 01- 500 24- 26- 483 26- 28- 373 40- 42- 278 56- 244 53- 153 53- 105 59- 070 61-			278	09420	56-	
	03 25522	018 017 929	911 01- 04- 836 05- 12- 650 19- 28- 612 ++ 28- 514 32- 36- 424 33- 40- 378 37- 45- 354 40- 47- 263 53- 146 52- 112 59- 090 59- 079 64- 066 61-			263 112 079	09790 15290 17450	53- 59- 64-	
CRAWLEY 03774	61 873++	016 998 955	990 ++ 01- 955 00 01- 906 00 01- 767 ++ 09- 663 10- 13- 562 ++ 19- 478 ++ 29- 396 34- 38- 358 ++ 45- 285 53- 265 55- 155 53- 082 61- 044 62-			265	09870	55-	
	02 5855+	024 006 907	000 ++ 01 900 ++ 03- 862 03- 07- 843 02- 13- 794 ++ 25- 752 08- 20- 719 09- 16- 616 16- 20- 574 17- 22- 562 ++ 24- 496 26- 28- 484 24- 29- 448 26- 34- 357 ++ 48- 297 50- 241 59- 188 55- 120 56- 111 59- 063 62- 050 60- 038 62- 030 59-			241 111	10500 15410	59- 59-	
CAMBORNE 03808	02 41400	021 010 890	998 07 05 962 ++ 03 924 ++ 01 890 00 04- 854 03- 07- 818 ++ 11- 804 ++ 09- 781 06- 14- 745 09- 13- 735 10- 15- 508 29- 38- 454 32- 45- 399 33- 48- 369 36- 49- 281 50- 231 53- 219 51- 084 60-			231	10760	53-	
	02 11540	029 018 870	997 07 04 954 04 03 921 ++ 01- 878 00 04- 868 ++ 03- 810 02- 08- 777 04- 09- 756 03- 08- 721 04- 10- 673 09- 13- 657 07- 12- 562 ++ 19- 535 18- 22- 502 22- 26- 471 24- 28- 378 35- 40- 346 40- 45- 204 69- 186 65- 174 59- 131 57- 109 63- 103 61- 061 65-			204 109	11630 15560	69- 63-	
VALENTIA 03953	80 795++	019 018 900	970 05 01 880 02- 06- 812 06- 12- 759 09- 13- 730 09- 21- 646 17- 36- 631 17- 37- 604 18- 38- 548 21- 29- 526 23- 29- 486 23- 28- 427 29- 35- 261 57- 252 56- 191 54- 127 54- 082 51-			261	09900	57-	
	61 724++	026 025 830 770	925 05 03 893 02 05- 720 04- 11- 640 06- 21- 611 09- 14- 590 11- 16- 535 15- 20- 373 33- 37- 308 44- 211 63- 199 67- 180 68- 170 59- 148 57- 109 62- 094 61- 058 64-			180 109	12500 15700	68- 62-	
Ocean Weather Station 'I' 59°00'N 19°00'W	03 52505	000 000 895	917 02 840 04- 825 04- 617 21- 583 23- 518 24- 505 23- 475 25- 454 25- 386 33- 276 53- 250 56- 197 48- 182 49- 170 51- 130 51- 080 60-			250	10100	56-	
	50 7722+	004 004 825	971 04 03 900 03 00 862 01 00 825 00 01- 746 04- 06- 723 04- 14- 695 06- 14- 680 07- 13- 623 11- 14- 587 12- 17- 553 16- 19- 378 36- 292 52- 215 65- 193 58- 158 56- 035 65-			215	11200	65-	
Ocean Weather Station 'J' 52°30'N 20°00'W	21 4553+	017 017 831	933 05 03 743 04- 08- 655 08- 12- 638 07- 11- 594 10- 14- 579 10- 14- 484 ++ 27- 459 23- 29- 420 26- 32- 322 40- 50- 258 52- 190 65- 149 53- 093 62- 079 59- 063 61-			190 093	12100 16700	65- 62-	
	03 5542+	019 019 873 754	000 09 07 925 04 02 843 02- 03- 832 04 03- 822 ++ 09- 812 04 10- 775 ++ 15- 679 05- 20- 634 06- 20- 598 10- 19- 575 ++ 22- 471 21- 24- 405 30- 33- 350 38- 41- 311 42- 187 66- 178 67- 165 60- 152 58-			178	12600	67-	

YYGGgg	POSITION	PRESSURE			SURFACE		1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb						
		MSL	Surf.	0°C level	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C					
281250	53.5°N 25.3°W	009	002	762	061	09 05	073	06 04	939	04 05-	1402	03 03	1893	02 02-	01- 18-	2957	04- 19-	07- 19-	4157	11- 31-	15- 39-	5532	21- 27-
Cloud :— 7/8 St. 2400 to 3000 ft. 8/8 St. 5000 to 6000 ft. 1/8 Ac. at 18000 ft. 4/8 Cl. at 25000 ft.																							
Inversion Levels :—										Isothermal Levels :—													
YYGGgg	POSITION	PRESSURE			SURFACE		1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb						
		MSL	Surf.	0°C level	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C					
281357	57.3°N 23.3°W	003	995	790	061	08 08	021	06 06	884	04 04	1347	02 02	1838	01 02-	03- 03-	2899	05- ++	08- 08-	4093	13- 13-	15- 28-	5468	19- 27-
Cloud :— 8/8 Ns. 900 to 6000 ft. 5/8 As. 11000 to 13000 ft. 7/8 Ac. 14000 to 15000 ft. 7/8 Cs. at 25000 ft.																							
Inversion Levels :—										Isothermal Levels :—													
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-.															Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2								
For special arrangements for supply to schools and colleges see Form 2452.																							

STATION		MAX. WIND
LERWICK 03005	130mb 270 38 18000m 290 55 07600/2 08000/2 09400/0 138mb 290 42 06000m 340 34 06100/0 07000/0	340 102 08500m
STORNOWAY 03026	02940/0 11790/1	310 104 10730m
SHANWELL 03170	060mb 280 38 07520/0 07930/0 09120/1 09460/1 445mb 310 80 365mb 320 140 080mb 310 35 03960m 330 58 11200m 320 101 03580/0 03960/0 11730/1 12300/1	300 80 08540m 320 146 07690m 320 130 10400m
ALDERGROVE 03917	355mb 300 76 102mb 250 39 04740/0 218mb 310 99 15200m 310 65 00780/0	300 92 08750m 310 111 06260m 310 123 10180m 310 85 11600m
AUGHTON 03322	453mb 240 52 093mb 260 29 22500m 250 21 04880/0 05280/0 05680/0 11260/1 232mb 330 85 111mb 290 35 14110/1	320 108 06620m 320 114 08870m 320 103 10430m
HEMSBY 03496	080mb 280 38 460mb 310 99 085mb 350 16 11260m 320 95 13300m 320 60 03160/0 03490/0 07050/0 10850/1 11260/1 11700/1	220 89 08890m 300 72 09200m 320 125 07190m 330 133 09650m
CRAWLEY 03774	06800/0 12200/1 12900m 310 47 03300/3 13900m 320 57 12350/1 12920/1	220 88 09460m 320 77 06600m 330 107 09820m
CAMBORNE 03808	094mb 280 28 19800m 310 27 14440/1	330 79 08080m 310 75 06250m 320 92 11090m 300 61 07420m
VALENTIA 03953	880mb 280 36 759mb 280 47 730mb 280 45 604mb 300 58 252mb 310 84 925mb 290 32 720mb 290 49 611mb 300 55 535mb 300 47 199mb 300 67 170mb 300 62	300 96 10800m 300 70 12080m
Ocean Weather Station 'I' 59°00'N 19°00'W	917mb 280 34 617mb 290 36 454mb 290 120 386mb 290 103 00300m 240 12 00600m 240 10 06300m 270 66 03000/0 900mb 240 36 623mb 260 52 553mb 260 35 215mb 260 97 193mb 260 86 00300m 210 34 00600m 220 42	290 120 06040m 250 100 11000m
Ocean Weather Station 'J' 52°30'N 20°00'W	13060/1 13200m 240 52 01790/0 02410/1 13500m 250 58 06530/1 06930/0	290 84 10600m 280 64 12850m 230 72 01970m 220 78 11260m
LARKHILL 03743	13110m 320 72	320 92 06450m 330 102 09100m

NOTES ON THE AEROLOGICAL SITUATION

The blocking ridge which began to develop about a week ago over western Europe, and which dominated the pattern over Europe until yesterday, has now almost wholly given way to an extension of the westerlies, which had set in over the British Isles two days ago. The westerlies, with fast-moving waves, now dominate the whole picture.

AVERAGE AND EXTREME VALUES 1951-55							
FEBRUARY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21460)	(-61.5)	...	...	...	...	...
60	18945	-60.1	-46	-71	309	24	26
100	15745	-58.1	-46	-69	304	17	25
150	13175	-55.3	-42	-72	311	18	22
200	11350	-56.7	-42	-70	318	20	35
300	8770	-52.7	-43	-61	322	21	46
400	6870	-41.4	-31	-56	315	17	42
500	5320	-30.1	-19	-43	308	13	35
700	2845	-13.7	-2	-23	292	7	26
850	1345	-5.7	4	-13	257	4	25
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		267	-60.4		9960		
Max.		422	-43		12955		
Min.		160	-75		6250		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51°12'N., Long. 01°48'W./Lat. 51°05'N., Long. 00°13'W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21570)	(-61.0)	...	...	...	...	...
60	19050	-60.1	-52	-73	308	18	25
100	15855	-58.1	-47	-71	307	20	28
150	13285	-55.5	-44	-70	310	25	34
200	11455	-56.9	-43	-72	313	27	41
300	8875	-52.2	-43	-61	315	28	52
400	6965	-39.9	-28	-54	309	23	44
500	5405	-28.2	-17	-41	306	18	35
700	2910	-11.2	2	-22	304	12	25
850	1395	-3.4	6	-15	302	8	22
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		264	-59.7		9835		
Max.		456	-42		14355		
Min.		126	-76		5850		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(21740)	(-61.9)	...	...	...	...	(15)
60	19250	-64.4	-59	-73	270	28	31
100	16115	-62.3	-55	-69	270	49	52
150	13575	-56.8	-47	-66	270	66	69
200	11740	-55.7	-43	-68	270	71	77
300	9125	-47.2	-37	-56	270	58	71
400	7165	-33.6	-26	-46	270	45	56
500	5565	-22.0	-13	-33	270	36	45
700	3005	-5.0	6	-13	275	23	30
850	1455	3.7	21	-3	275	17	24
Tropo- pause		Average	Max.	Min.	Max.	Min.	
		Press.	Press.	Press.	Temp.	Temp.	
		mb.	mb.	mb.	°C	°C	
Upper		98	-63.6	...	72	...	-73
Lower		230	-58.2	350	...	-52	...

* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

Thickness isopleths in geopotential decametres

