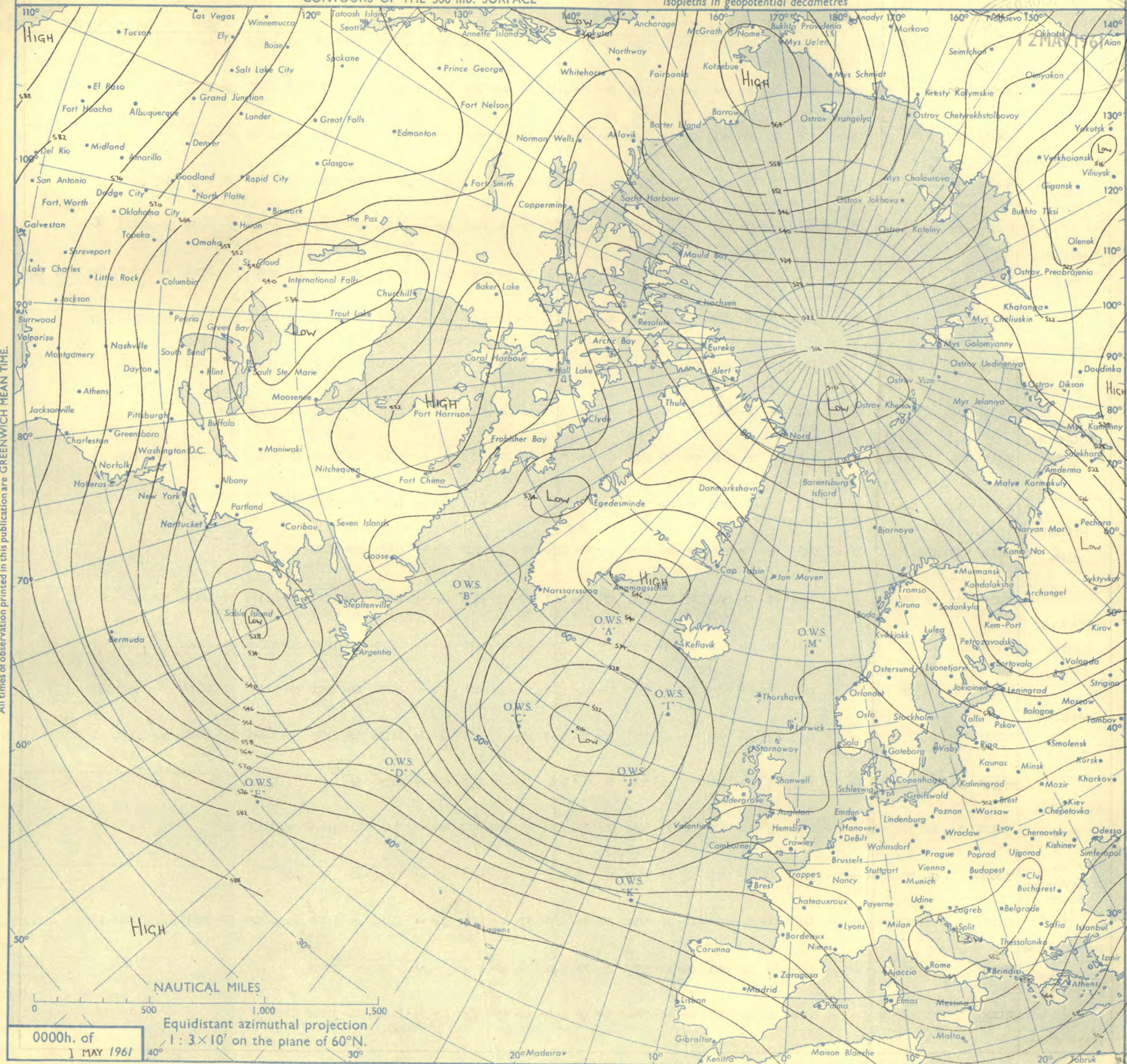


CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



0000h. of
1 MAY 1961

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

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 861++	010 000 840	990 ++ 05 895 03 01 658 12- 15- 416 32- 36- 354 40- 45- 245 59- 227 59- 176 53- 100 54- 070 55-			245	10300	59-
	02 861++	006 996 832	949 04 03 900 04 02 832 ++ 02- 796 ++ 07- 716 ++ 11- 690 09- 20- 654 ++ 27- 552 19- 35- 506 21- 43- 440 29- 42- 378 37- 49- 273 55- 238 60- 213 54- 188 51- 100 53- 053 55-			238	10480	60-
STORNOWAY 03026	03 25600	009 007 846	000 09 07 880 ++ 02- 812 03- 06- 741 06- 12- 513 22- 29- 372 40- 47- 277 51- 232 54- 205 50- 050 55-			232	10680	54-
	63 3742+	001 000 853	992 08 06 974 ++ 04 798 03- 05- 685 08- 11- 579 15- 19- 446 29- 34- 373 40- 46- 302 53- 271 54- 215 48- 077 50- 050 55-			271	09600	54-
SHANWELL 03170	44 30930	010 010 835	000 07 03 991 09 06 933 06 03 775 04- 08- 712 ++ 18- 659 ++ 22- 626 13- 27- 442 31- 49- 351 44- 317 47- 261 55- 226 55- 196 53- 100 54- 059 57- 046 54- Pressure doubtful above 100mb.			261	09890	55-
	02 7557+	005 005 843	989 10 06 808 02- 04- 796 02- 05- 686 08- 13- 654 08- 13- 639 ++ 13- 615 09- 13- 514 ++ 24- 375 39- 45- 262 58- 244 60- 226 54- 165 52- 100 54- 030 53-			244	10330	60-
ALDERGROVE 03917	03 15637	009 999 828	933 08 05 833 00 03- 741 ++ 08- 672 10- 16- 658 ++ 15- 628 11- 24- 565 14- 32- 430 ++ 39- 352 ++ 50- 260 55- 254 55- 231 59- 206 53- 033 55-			231	10770	59-
	58 363++	001 991 798 781	946 07 06 810 ++ 00 798 00 01- 784 00 02- 735 ++ 04- 708 05- 08- 690 05- 14- 685 ++ 17- 646 ++ 23- 606 11- 27- 427 ++ 47- 336 44- 246 57- 215 51- 113 50- 094 54- 081 55- 075 52- 044 57- 040 55-			246	10280	57- 094 16530 54-
AUGHTON 03322	11 40930	012 005 821	003 ++ 07 997 10 08 948 ++ 05 923 ++ 02 868 ++ 00 744 ++ 11- 738 06- 13- 721 05- 15- 677 07- 17- 617 13- 24- 596 13- 24- 480 22- 33- 433 29- 40- 338 40- 50- 220 53- 174 53- 080 56-			220	11080	61-
	02 464++	006 999 794	915 04 02 900 05 03 712 04- 05- 700 03- 05- 621 10- 14- 600 10- 18- 564 ++ 23- 387 35- 50- 248 61- 189 54- 101 52- 086 54- 055 54- 042 49- 039 51-			248	10280	61-
HEMSBY 03496	02 854++	013 011 818	001 09 07 958 08 06 886 ++ 03 842 ++ 01- 828 ++ 01- 815 00 02- 798 00 03- 780 ++ 06- 735 06- 08- 719 06- 08- 698 07- 09- 684 07- 10- 652 ++ 13- 640 10- 16- 615 ++ 18- 602 ++ 22- 583 15- 21- 560 ++ 25- 480 ++ 31- 365 40- 47- 242 54- 168 52- 106 55-			242	10460	54-
	03 725++	011 009 832	999 11 08 873 03 02- 832 ++ 01- 812 ++ 04- 751 06- 08- 743 ++ 08- 718 04- 17- 702 05- 23- 665 07- 27- 560 13- 35- 470 ++ 34- 458 ++ 37- 412 ++ 37- 348 40- 48- 257 59- 231 62- 206 54- 190 56- 127 53-			231	10790	62-
CRAWLEY 03774	02 762++	012 996 830	977 ++ 06 827 ++ 02- 768 04- 09- 727 ++ 14- 593 12- 27- 537 18- 32- 414 28- 41- 343 ++ 50- 231 60- 225 56- 132 54- 104 57- 066 56-			231	10850	60-
	02 5157+	013 995 856	980 09 04 916 ++ 02 890 ++ 00 845 01- 03- 790 00 02- 553 14- 17- 482 ++ 26- 445 ++ 34- 347 ++ 48- 312 45- 244 59- 208 62- 164 53- 139 55- 051 58- 039 55-			208	11450	62-
CAMBORNE 03808	02 15677	014 004 810	991 09 07 961 07 05 923 06 01 870 ++ 01- 853 02 06- 842 ++ 05- 795 ++ 13- 764 02- 11- 752 ++ 09- 731 03- 07- 705 03- 07- 478 19- 24- 335 40- 45- 264 54- 242 58- 202 62- 195 60- 181 63- 174 59- 157 56- 094 58- 036 57-			202	11710	62-
	53 860++	007 996 746	983 11 09 939 10 08 793 04 01 742 ++ 03- 722 02- 09- 705 ++ 09- 682 ++ 13- 675 04- 14- 650 05- 21- 618 ++ 27- 408 32- 49- 324 43- 268 54- 250 57- 206 58- 175 52- 140 50- 076 55- 044 51-			250	10320	57-
VALENTIA 03953	03 5347+	005 004 730	911 05 00 845 05 01- 817 03 04- 777 03 04- 595 09- 15- 513 16- 23- 349 40- 50- 322 43- 284 51- 246 58- 222 56- 211 51- 119 53-			246	10500	58-
	01 53502	998 998 817	965 10 08 941 08 06 882 04 01 869 04 01- 817 00 04- 772 01- 19- 730 04- 21- 693 04- 24- 666 07- 27- 653 07- 28- 561 15- 42- 523 18- 40- 497 23- 38- 476 25- 36- 450 28- 36- 351 40- 338 42- 313 47- 263 54- 193 48- 186 50- 135 50- 093 53-			263	09800	54-
Ocean Weather Station 'I' 59°00'N 19°00'W	15 79463	996 996 856	975 08 06 820 03- 04- 668 12- 15- 582 20- 23- 543 24- 29- 492 26- 33- 415 34- 43- 374 40- 47- 303 52- 287 48- 197 44- 133 48- 122 50- 104 50-			303	08800	52-
	15 11477	990 990 861	968 ++ 02 850 01- 04- 722 08- 10- 574 20- 22- 554 20- 23- 510 23- 25- 379 40- 43- 289 55- 282 52- 237 46- 126 48- 092 52- 038 54-			289	09000	55-
Ocean Weather Station 'J' 52°30'N 20°00'W	80 894++	993 993 850	867 02 00 815 02- 04- 798 02- 06- 678 09- 13- 605 15- 29- 534 23- 37- 512 23- 38- 450 31- 45- 335 47- 157 49-			335	08100	47-
	01 49403	991 991 870	894 01 01- 804 04- 07- 785 05- 10- 606 19- 24- 442 36- 45- 355 45- 267 40- 194 44- 127 48-			355	07500	45-

UPPER WINDS AT STANDARD LEVELS

1 May

1961

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	302330	T	180 15	+++ ++	180 19	180 19	200 14	220 11	230 12	220 15	180 14	160 14	190 11	250 12	280 15	290 08					
	010530	P	170 17	+++ ++	190 19	190 18	190 16	190 19	180 16	200 25	180 27	170 30	190 24	240 16	280 12	300 09					
	011130	P	160 18	+++ ++	170 26	180 24	180 22	180 30	190 22	200 23	270 24	260 29	220 20	230 14	270 10	280 06					
	011730	P	150 21	+++ ++	170 28	170 31	180 29	180 31	190 27	190 21	200 23	190 29	200 28	220 21	250 11	260 06	310 06	020 03			
STORNOWAY 03026	302330	T	190 10	+++ ++	200 16	200 19	190 16	190 15	200 18	210 18	190 22	240 25	240 21	220 18	230 13	270 10	290 04				
	010530	P	130 11	+++ ++	180 17	180 17	180 21	180 19	200 17	220 26	230 21	240 40	220 26	210 19	210 11	260 11					
	011130	T	180 14	+++ ++	160 26	160 34	190 31	190 27	190 33	180 36	160 43	180 50	190 32	200 17	210 14	280 09	240 04				
	011730	P	170 08	+++ ++	180 23	180 23	190 27	180 31	180 30	190 34	190 41	200 47	200 37	200 18	220 13	240 07	280 09				
SHANWELL 03170	302330	T	000 00	+++ ++	200 09	180 11	200 12	210 12	210 22	200 16	220 17	250 19	260 23	250 19	270 16	290 09	330 08	360 07			
	010530	P	000 00	+++ ++	170 14	180 16	190 19	190 20	210 17	260 22	280 28	280 40	260 17	250 22	260 12	270 16	310 11	300 03	060 10		
	011130	P	130 10	+++ ++	190 20	190 24	190 25	190 29	210 25	210 31	210 41	220 43	210 33	230 23	230 18	270 13	270 04	020 04	000 00	050 05	220 16
	011730	P	090 08	+++ ++	170 24	180 22	190 18	200 27	220 33	220 35	210 39	220 41	210 35	220 26							
ALDERGROVE 03917	302330	T	120 09	+++ ++	170 10	190 13	190 18	200 16	240 19	280 27	280 40	270 61	270 69	260 28	260 20	280 15	300 08	350 07			
	010530	P	140 11	+++ ++	180 32	180 33	190 29	220 24	230 28	220 31	230 42	220 51	230 40	230 30	250 21	260 15					
	011130	T	150 18	+++ ++	200 25	210 25	210 27	210 33	210 37	220 37	230 41	240 65	230 55	220 35	230 24	240 14	270 13	230 05			
	011730	P	120 10	+++ ++	160 16	170 16	180 20	190 29	200 37	190 36	200 61	200 59	200 46	220 30							
AUGHTON 03322	302330	T	000 00	+++ ++	250 04	270 05	230 07	230 08	230 13	290 32	300 50	300 70	300 74	290 33	270 18	290 17					
	010530	P	100 07	+++ ++	200 15	200 15	190 10	220 15	250 16	250 19	270 29	270 47	270 35	260 35	270 11						
	011230	T	140 12	+++ ++	190 26	210 24	230 23	230 23	240 25	240 36	250 34	230 39	240 41	230 31	250 27	260 17	250 08	280 05			
	011730	P	140 11	+++ ++	200 24	220 18	220 22	220 25	210 36	210 41	210 39	220 49	220 45	240 32	260 22	270 18	280 16	310 08			
HEMSBY 03496	302330	T	130 07	+++ ++	230 04	250 03	210 07	210 09	230 11	220 10	200 14	300 24	310 31	300 24	310 22						
	010530	P	130 02	+++ ++	190 10	200 10	210 09	180 09	220 11	300 20	310 49	310 55	310 41	290 27	290 19	300 15					
	011130	T	130 08	+++ ++	210 13	210 12	230 14	230 15	260 14	290 18	290 21	280 31	290 22	280 26	270 20						
	011730	P	180 10	+++ ++	210 20	220 16	240 16	270 18	280 12	290 16	260 21	260 26	260 30	270 22							
CRAWLEY 03774	302330	T	240 03	+++ ++	310 08	260 09	280 05	280 13	270 18	300 37	320 61	320 82	320 77	310 41	300 22	300 17					
	010530	P	250 02	+++ ++	260 12	260 16	260 14	280 18	290 20	290 19	290 27	290 44	290 55	290 44	300 22	290 21	300 16				
	011110	P	200 09	+++ ++	230 20	220 21	250 19	270 23	280 20	290 25	280 26	280 49	290 62	270 40	280 23	290 18	280 06	310 07	020 02	290 03	210 06
	011730	P	210 15	+++ ++	220 27	230 24	230 22	240 14	230 21	230 26	240 27	250 37	250 51	260 37	270 17	270 20					
CAMBORNE 03808	302330	T	210 07	+++ ++	240 19	240 17	260 21	270 26	270 27	270 36	270 47	280 60	280 67	280 58	280 30	310 24	270 13	020 05			
	010530	P	180 19	+++ ++	220 29	250 28	250 29	270 32	280 36	270 34	270 44	270 68	270 83	280 49							
	011130	T	200 13	+++ ++	230 27	240 27	240 32	240 35	250 28	230 28	250 39	240 66	240 79	250 47	250 29	260 24	290 18	250 05			
	011730	P	240 18	+++ ++	250 31	250 35	240 34	230 40	230 47	240 50	230 52	230 54	240 47	250 39	240 31	240 20					
VALENTIA 03953	302339	P	180 10	+++ ++	190 42	200 40	230 34	250 26	250 36	240 36	240 51	230 58									
	011130	T	210 15	+++ ++	+++ ++	210 30	+++ ++	220 35	+++ ++	220 58	220 60	220 70	+++ ++	230 46	+++ ++	260 21					
Ocean Weather Station 'I' 59°00'N 19°00'W	010001	T	140 12	+++ ++	+++ ++	150 16	150 18	160 18	170 17	170 22	190 34	210 40	190 21	190 11	180 08						
	010600	P	135 10	+++ ++	120 12	120 13	100 15	090 12	110 15	120 14	140 27	160 41	170 12	200 12	140 04	310 09	180 11				
	011100	T	050 20	+++ ++	+++ ++	070 26	070 29	070 25	070 25	100 17	110 15	080 19	130 13	150 11	150 05	250 07	240 04	340 07			
	011700	P	360 30	+++ ++	030 36	030 27	040 23	050 23	040 17	030 21	010 23	050 09	110 11	140 09							
Ocean Weather Station 'J' 52°30'N 20°00'W	010001	T	270 21	+++ ++	+++ ++	270 36	+++ ++	270 35	+++ ++	240 47	260 48										
	010600	P	270 30	+++ ++	260 32	280 40	260 38	250 39	260 45	250 26	250 40										
	011100	T	240 23	+++ ++	260 28	260 32	+++ ++	260 34	+++ ++	260 38	260 42										
	011800	P	235 20	+++ ++	260 30	250 32	250 32	250 37	250 43	250 46	250 35										
LARKHILL 03743	010630	P	140 02	+++ ++	230 20	240 17	240 15	280 25	270 22	270 21	270 27	270 38	270 50	270 44	280 24	280 18					
	011045	P	180 10	+++ ++	200 23	220 23	250 25	270 25	270 27	290 26	270 26	270 56	280 63	270 40	270 28						

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
011134	57.3°N 23.3°W	991	983	857	061 08 07	079-	06 05	783 03 ++	1241 01- 01-	1725 04- 04-	07- ++	2765 11- ++	14- ++	3932 18- ++	23- ++	5267 28- ++
Cloud :— 1/8Cu. 1200 to 7000ft; 3/8Cu. 1200 to 3500ft; 5/8Sc. 6000 to 7000ft; 1/8Cb. 1200 to 11000ft; 1/8Ci. 15000 to 17000ft; 1/8Ci. 18000 to 19000ft.																
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
011315	53.5°N 25.3°W	984	977	888	061 07 07	079-	05 05	780 01 01	1234 02- ++	1719 05- ++	08- ++	2752 12- ++	16- ++	3911 21- ++	26- ++	5227 32- ++
Cloud :— 2/8Cb. HNG to 17000ft; 5/8Sc. 2500 to 5000ft.																
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	077mb 340 04 11350/2 17100m 290 05 05950/2 09250/5	
STORNOWAY 03026	053mb 330 05 18200m 300 07 04200/2 08270/0 09630/1 11400/2 060mb 210 06 19900m 270 08	
SHANWELL 03170	021800m 020 08 04670/2 10160/1 10560/5 33000m 190 11 36000m 270 06 29450/2 13500m 230 18 02900/0 10650/1	
ALDERGROVE 03917	233mb 280 45 037mb 110 05 17300m 270 17 P22950m 050 03 06000m 190 50 12900m 230 25 05650/0 10950/1	270 81 09570m 230 67 09640m 200 66 07140m
AUGHTON 03322	548mb 280 20 228mb 300 53 083mb 300 15 11100m 260 20 03270/2 10560/1 11050/5 11610/0 12610/1 042mb 280 02 22200m 040 03	300 84 09920m
HEMSBY 03496	329mb 250 12 111mb 300 20 04870m 260 11 05980m 310 32 138mb 280 22 13660m 270 20	
CRAWLEY 03774	072mb 320 10 11220/1 12680/1 28800m 200 05 33000m 220 06 18000m 290 14	310 86 09350m 290 64 10550m
CAMBORNE 03808	039mb 280 03 13500m 260 29 01040/2 09800/0 10650/1 11670/1 12930/1 18000m 290 21 03130/0	280 72 11100m 270 92 10420m 240 87 10530m
VALENTIA 03953	00300m 160 42 00600m 170 43 09300m 230 59 882mb 210 28 772mb 220 28 561mb 220 55 263mb 220 76 135mb 240 36 093mb 260 18	220 80 09610m
Ocean Weather Station 'I' 59°00'N 19°00'W	892mb 150 19 108mb 180 02 18900m 220 08 887mb 070 24 114mb 270 03 060mb 310 07 042mb 000 00 08100m 360 17 09600m 110 08 13500m 220 03	
Ocean Weather Station 'J' 52°30'N 20°00'W	815mb 270 41 605mb 250 38 450mb 250 50 00300m 250 22 00600m 250 20 804mb 260 32 785mb 260 33 606mb 260 37 442mb 260 39 355mb 260 42 00300m 250 27 00600m 250 30	
LARKHILL 03743	17070m 300 21 01050/2	270 72 10300m

NOTES ON THE AEROLOGICAL SITUATION

The low centre which was east of New York yesterday has moved further east into the Atlantic and has deepened.

The mid-Atlantic low has moved slowly east and has deepened slightly. Its down-wind ridge over Biscay has also moved a little east. The ridge from the northern North Sea to the Greenland coast persists. Over southern Europe the low over the northern Adriatic and the Balkans has moved slowly east and is filling.

AVERAGE AND EXTREME VALUES 1951-55

MAY

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	22145	-50.1	-46	-55	...	(10)
60	19500	-50.3	-43	-60	102	2
100	16180	-51.4	-44	-62	283	3
150	13540	-51.0	-42	-62	288	7
200	11680	-53.8	-39	-69	288	10
300	9070	-48.8	-37	-56	281	11
400	7125	-35.0	-27	-49	282	10
500	5530	-23.2	-15	-38	283	8
700	2985	-7.0	1	-20	289	4
850	1450	0.9	11	-10	310	2

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9
60	19480	-52.8	-46	-62	69	1
100	16195	-53.8	-44	-61	284	5
150	13590	-53.3	-46	-65	284	10
200	11750	-55.3	-42	-67	282	15
300	9140	-47.7	-38	-56	274	15
400	7180	-33.4	-23	-48	270	13
500	5580	-21.4	-11	-34	267	11
700	3015	-5.3	6	-16	258	7
850	1470	3.0	15	-6	254	5

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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

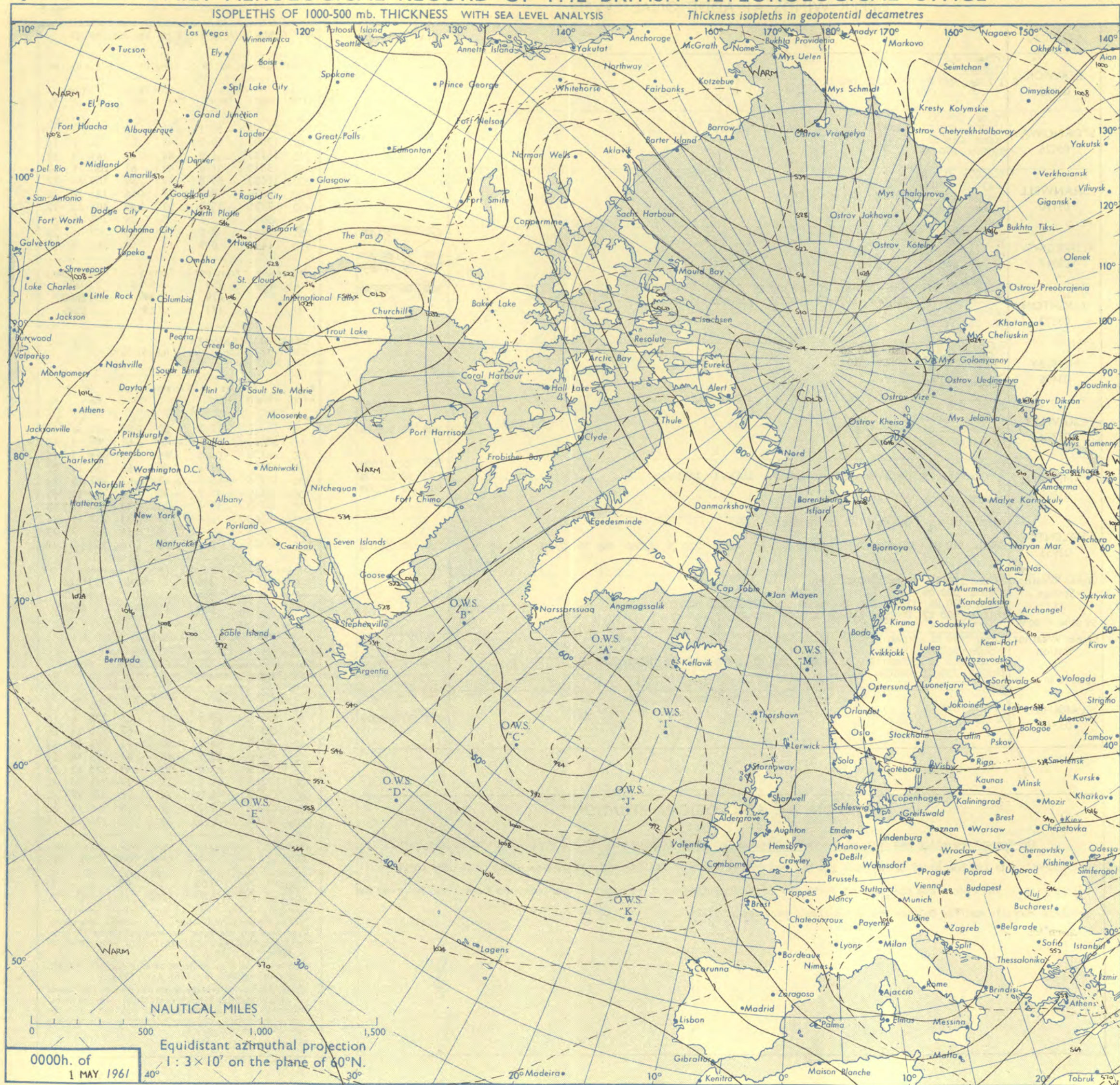
Press. Level	Average Height	Temp.	Extreme Temps. Max.	Min.	Wind* V _R	V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	...	...	...	...	180	2
60	19500	-59.3	-57	-66	270	6
100	16315	-60.2	-51	-67	270	24
150	13775	-59.1	-49	-71	275	40
200	11970	-58.9	-48	-67	275	48
300	9355	-43.8	-39	-49	275	42
400	7365	-28.2	-23	-38	275	34
500	5720	-16.0	-12	-28	275	27
700	3095	2.2	9	-9	275	16
850	1500	12.2	24	2	275	9

Tropopause	Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	117	-65.1	...	80	...	-71
Lower	199	-60.9	365	...	-41	...

* 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.

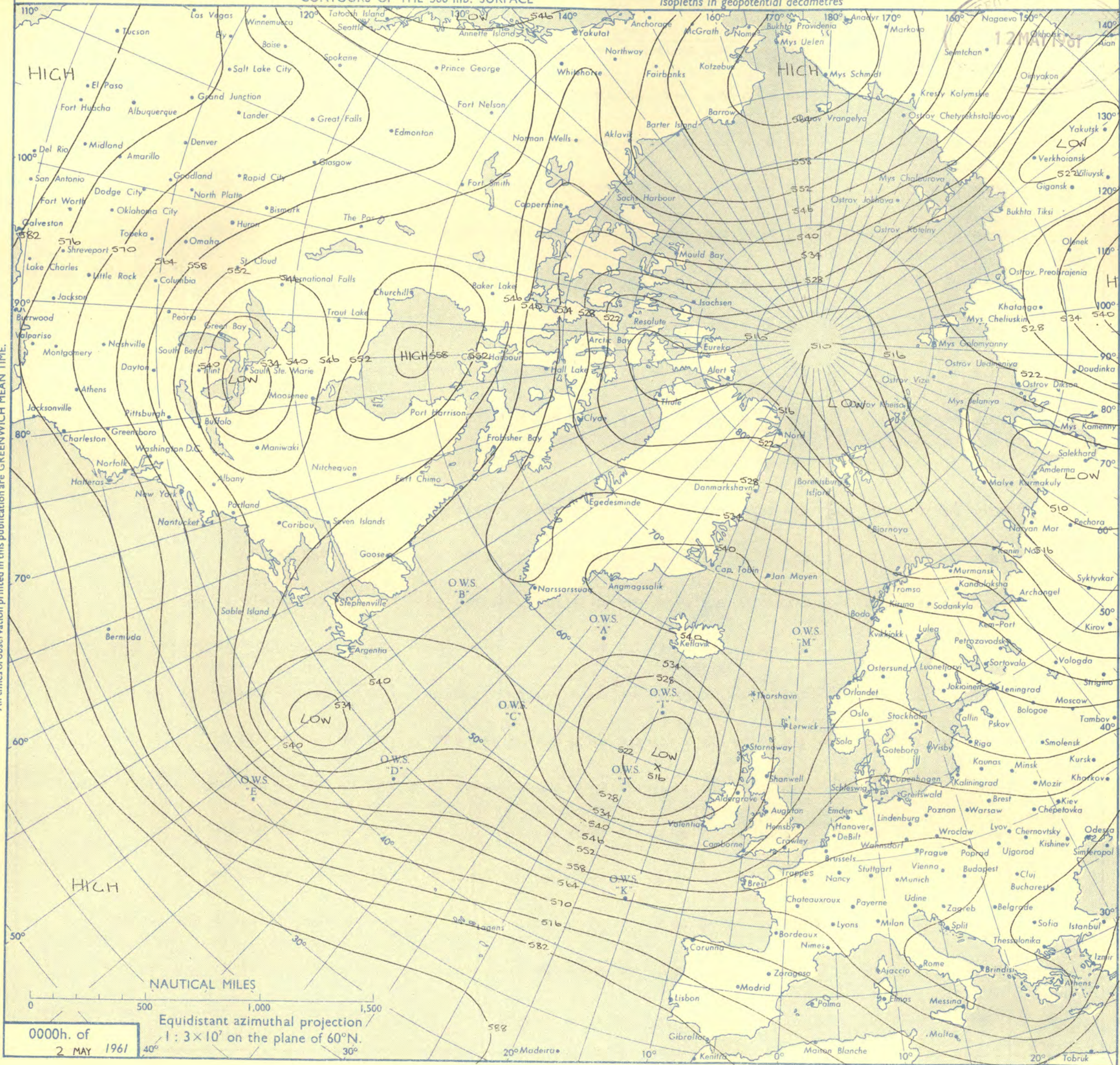
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



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 $60^\circ N$.

0000h. of
 2 MAY 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
LERWICK 03005	012330	082	07	07	016	++	++	1338	01	01	2873	08	13	5423	22	32	7023	35	45	8960	51	++	11548	51	13420	51	16053	52						
	021130	082	08	08	044	++	++	1280	01	01	2823	06	10	5372	23	29	6968	36	42	8894	52	++	11521	48	13413	49	16063	51	18386	52	20564	52		
STORNOWAY 03026	012330	013	09	08	046	++	++	1283	02	00	2820	07	12	5354	25	28	6937	37	44	8872	50	++	11504	48	13397	50								
	021140	013	11	07	072	++	++	1252	01	04	2773	10	14	5267	31	35	6810	43	++	8724	47	++	11426	46	13330	49	15979	52	18285	53				
SHANWELL 03170	012330	005	09	09	034	++	++	1307	04	03	2860	04	05	5423	22	27	7023	34	39	8968	50	++	11588	49	13473	50	16110	53						
	021130	005	12	05	050	++	++	1281	00	02	2807	10	14	5329	27	38	6893	41	++	8805	47	++	11485	47	13383	49	16029	52	18327	54	20484	54	23754	55
ALDERGROVE 03917	012330	077	09	07	039	++	++	1288	02	01	2819	09	11	5343	27	34	6914	38	47	8861	46	++	11546	45	13449	49	16102	51	18410	53	20571	54	23863	53
	021130	077	12	07	072	++	++	1259	00	03	2784	10	14	5291	29	35	6844	43	++	8759	44	++	11480	44	13389	48	16041	53	18343	54	20504	54		
AUGHTON 03322	012330	056	11	10	014	++	++	1324	03	02	2869	07	08	5411	24	34	7003	36	46	8939	51	++	11562	51	13436	51	16060	55						
	021130	056	09	06	029	++	++	1299	01	02	2831	09	11	5354	26	29	6924	40	43	8852	45	++	11559	46	13479	45	16152	49	18473	51	20655	52		
HEMSBY 03496	012330	012	11	10	032	11	10	1376	06	04	2946	03	07	5530	20	25	7142	32	36	9102	49	++	11689	53	13552	52								
	021130	012	15	06	018	14	06	1357	02	02	2894	07	14	5445	22	36	7045	34	47	8989	50	++	11604	50	13482	50								
CRAWLEY 03774	012330	144	11	11	029	++	++	1376	06	04	2942	04	08	5519	22	37	7122	34	49	9072	50	++	11663	52	13526	52	16139	54	18417	55				
	021130	144	11	10	035	++	++	1363	00	03	2891	09	19	5429	23	34	7025	35	45	8970	50	++	11589	50	13464	51	16086	53	18362	55	20503	56		
CAMBORNE 03808	012330	088	10	08	042	++	++	1372	01	02	2906	08	19	5455	21	39	7061	34	++	9002	51	++	11617	50	13494	52	16114	55	18389	55				
	021130	088	12	08	020	++	++	1355	01	02	2885	08	17	5398	28	39	6968	38	49	8908	47	++	11581	49	13462	52	16080	54	18361	56				
VALENTIA 03953	020001	014	11	09	014	++	++	1318	00	02	2844	10	15	5360	27	32	6940	38	46	8880	45	++	11590	45	+++++	++	16170	50						
	021200	014	11	07	033	++	++	1289	01	04	2814	10	16	5310	28	39	6880	40	++	8810	44	++	11530	46	+++++	++	16100	51						
Ocean Weather Station 'I' 59°00'N 19°00'W	012300		09	08	164	++	++	1164	01	00	2698	09	10	5220	26	36	6800	38	49	8720	48	++	11430	45	13350	46	16020	50						
	021100		10	07	164	++	++	1166	01	00	2701	08	11	5230	26	31	6800	40	45	8720	47	++	11420	45	13330	47	15980	51	18290	54	20440	55		
Ocean Weather Station 'J' 52°30'N 20°00'W	012300		09	05	076	++	++	1244	01	04	2762	11	15	5240	31	40	6780	43	++	8730	41	++	11460	44	13380	48	16020	53	+++++	++	20480	++		
	021100		11	05	023	++	++	1292	02	13	2814	09	29	5330	26	++	6910	36	++	8850	49	++	11550	46	13460	47	16130	50	+++++	++	20620	52	23920	++

STATION	ww N _h C _L hC _M C _H	PRESSURE																												TROPOPAUSE			
		MSL	Surf.	0°C level																											mb	m	°C
LERWICK 03005	10 860++	002	992	833	926 03 03 907 04 04 797 ++ 03 774 ++ 06 704 ++ 12 663 11 22 650 10 16 633 ++ 13 619 11 15 590 ++ 17 550 ++ 25 529 ++ 26 509 ++ 31 470 25 37 369 40 48 288 53 251 59 198 51 100 52 095 52																										251	10100	59
	61 671++	995	985	822	962 06 04 719 05 09 654 10 14 492 23 29 375 40 46 304 52 287 51 257 55 213 49 144 48 100 51 050 52																										257	09890	55
STORNOWAY 03026	21 757++	994	993	829	927 06 03 740 05 07 682 ++ 18 678 09 19 651 ++ 21 626 14 19 590 ++ 19 573 17 20 540 ++ 24 430 ++ 36 423 34 38 371 40 48 282 53 248 54 239 50 195 48 139 50																										282	09260	53
	03 22503	991	990	860	973 08 04 928 ++ 03 863 ++ 04 813 03 05 724 ++ 14 696 10 14 641 ++ 23 514 29 33 425 40 44 357 47 212 45 102 52 053 54																										357	07560	47
SHANWELL 03170	80 783++	996	995	779	965 10 08 654 08 11 525 19 23 360 40 45 308 50 245 57 239 52 190 48 100 53 089 54																										245	10300	57
	03 785++	994	993	857	979 ++ 01 863 01 01 811 ++ 04 703 09 13 678 10 15 590 17 27 514 ++ 36 450 33 43 408 40 49 349 50 337 47 147 48 100 52 030 55																										349	07800	50
ALDERGROVE 03917	03 3563+	995	986	828	921 04 02 852 02 01 780 04 05 685 ++ 13 648 12 17 405 38 47 370 ++ 50 294 47 240 49 204 45 155 49 059 54 030 53																										294	08990	47
	25 685++	991	982	849	969 08 04 906 ++ 01 807 03 05 750 ++ 12 702 ++ 14 645 ++ 23 624 15 24 537 ++ 31 419 ++ 46 377 46 332 48 305 44 206 44 100 53 044 54																										377	07240	46
AUGHTON 03322	63 5732+	998	992	810	980 ++ 08 950 08 07 920 07 02 864 04 03 672 ++ 10 643 ++ 14 627 13 20 612 13 24 570 17 30 505 23 33 369 40 50 289 53 255 55 238 52 186 49 158 53 150 51 093 54																										267	09700	55
	80 894++	997	990	840	948 06 03 753 05 07 489 27 30 398 40 43 345 48 336 45 148 45 116 50 111 48 086 52 068 50 052 53 038 50																										345	07910	48
HEMSBY 03496	20 863++	004	002	736	774 03 02 710 ++ 05 690 ++ 09 640 07 10 619 ++ 12 599 ++ 14 579 ++ 17 392 ++ 37 349 40 45 245 59 224 58 191 51 116 54 110 52																										245	10400	59
	03 785++	002	001	822	990 13 06 923 ++ 03 764 05 07 750 04 08 672 09 21 583 16 29 542 16 32 384 37 50 255 56 219 50 120 52																										255	10040	56
CRAWLEY 03774	61 872++	003	986	750	973 11 09 750 00 02 716 ++ 04 700 ++ 08 685 04 15 645 06 24 588 ++ 25 399 34 49 270 55 246 58 201 52 070 55																										246	10350	58
	25 734++	004	987	851	982 ++ 07 972 09 06 905 03 02 802 ++ 07 780 ++ 07 754 ++ 13 538 ++ 33 443 29 39 360 ++ 50 287 52 258 57 218 50 105 52 081 57 048 56																										258	09920	57
CAMBORNE 03808	01 22500	005	995	827	981 10 08 893 03 02 751 04 13 721 07 16 657 09 26 621 11 29 561 18 33 469 24 43 412 32 50 339 44 283 53 259 55 179 49 098 55 054 56																										259	09930	55
	25 49563	002	992	835	823 01 05 701 08 17 521 26 37 476 29 40 426 36 47 320 46 283 48 098 54 060 57																										283	09290	48
VALENTIA 03953	80 28500	998	997	850	969 10 08 863 01 01 755 06 09 627 14 22 482 29 34 417 35 43 383 41 312 45 293 45 211 47 196 44 087 52 050 54																										312	08700	45
	80 794++	996	994	870	964 07 04 868 00 03 823 02 06 717 09 15 644 15 23 535 25 36 473 30 42 346 44 311 44 295 45 247 43 178 47 142 48 095 51 078 57 067 52 061 56 046 55																										346	07900	44
Ocean Weather Station 'I' 59°00'N 19°00'W	02 755++	980	980	831	907 05 05 702 ++ 10 656 ++ 16 632 ++ 28 609 ++ 32 543 21 32 383 40 321 49 243 44 123 48 110 50 083 51																										321	08300	49
	03 714++	980	980	829	953 ++ 06 917 05 03 646 11 15 590 17 20 548 21 27 397 40 45 352 47 244 45 122 50 034 57																										352	07600	47
Ocean Weather Station 'J' 52°30'N 20°00'W	01 49400	990	990	860	894 00 00 867 00 03 677 12 17 525 28 38 410 43 48 316 41 261 41 215 44 187 44 097 53 060 54																										410	06700	43
	02 59400	997	997	865	971 06 06 835 03 14 795 03 20 582 18 43 467 29 405 35 362 40 295 50 235 43 185 47 129 47 068 52 035 53																										295	09000	50

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	012330	T	150 20	+++ ++	160 31	150 31	170 31	180 27	170 22	190 27	200 26	210 34	210 34	210 17	190 11	260 06					
	020605	P	140 23	+++ ++	150 40	150 39	150 34	150 32	170 33	160 39	160 34	170 39	170 34	200 14	230 07	240 05	290 05	050 03			
	021130	T	140 23	+++ ++	160 38	160 32	160 30	170 26	160 34	150 38	140 48	150 58	160 39	160 17	190 13	260 04	180 03				
	021730	P	180 16	+++ ++	170 19	180 19	180 19	180 21	190 29	170 36	160 66	160 63	160 42	180 17	180 05	240 10	300 05	030 03			
STORNOWAY 03026	012330	T	030 06	+++ ++	140 17	140 17	140 19	150 22	160 30	160 40	170 54	170 68	180 34	180 22	190 12						
	020530	P	190 10	+++ ++	220 21	220 21	210 21	190 17	170 23	150 36	140 52	160 21	170 28	170 21	210 09	240 12					
	021140	T	180 15	+++ ++	210 18	210 18	200 18	200 16	180 17	190 18	170 25	150 31	170 24	180 10	210 14	260 11	210 05				
	021735	P	160 03	+++ ++	200 18	170 14	160 21	150 17	150 19	170 24	170 31	170 24	190 12	200 14	250 08	240 11					
SHANWELL 03170	012300	P	120 07	+++ ++	170 20	170 20	180 24	190 27	160 39	180 45	170 50	180 61	180 31	210 25	220 13	250 11	290 05	250 03	110 02	120 03	
	020530	P	210 10	+++ ++	230 20	230 22	220 25	200 21	190 32	180 36	170 46	170 47	180 31	200 26	220 10	250 12	260 13				
	021130	T	230 10	+++ ++	210 11	210 12	190 15	190 18	200 21	200 22	210 31	180 42	180 33	200 22	220 15	240 12	230 04	240 05	150 07	120 04	
	021805	P	110 04	+++ ++	220 13	220 15	200 15	190 16	180 17	180 23	170 29	180 28	210 18	220 13	250 12						
ALDERGROVE 03917	012330	T	220 15	+++ ++	230 22	220 25	220 25	230 29	200 29	210 34	200 43	190 51	200 40	220 25	230 22	250 16	260 05	310 06			
	020530	P	170 09	+++ ++	230 21	220 22	220 22	210 26	220 24	230 30	240 37	210 30	210 31	220 17	230 15	260 14	260 07				
	021130	T	200 13	+++ ++	230 21	230 21	230 20	220 18	210 23	200 24	210 30	210 24	220 22	230 22	240 17	260 12	280 07	260 06			
	021730	P	260 12	+++ ++	270 20	270 21	260 21	270 22	270 24	260 20	280 31	280 31	260 23	260 26	260 21						
AUGHTON 03322	012330	T	220 07	+++ ++	250 21	230 28	220 21	210 21	200 34	200 53	190 51	190 49	210 45	230 28	240 22	240 09					
	020530	P	180 06	+++ ++	240 21	240 24	240 26	230 26	240 28	220 39	220 63	210 61	220 35	220 30	250 19	240 13					
	021130	T	220 12	+++ ++	220 24	200 22	200 21	210 22	210 30	210 34	210 34	210 41	220 35	230 31	240 18	250 14	280 10	250 08			
	021730	P	250 18	+++ ++	250 30	250 28	250 27	260 27	250 27	240 32	250 30	250 26	250 34	260 29	260 25	260 15	270 14	290 05			
HEMSBY 03496	012330	T	190 10	+++ ++	200 28	200 32	210 25	190 19	200 25	230 20	210 29	210 35	210 28	240 29	260 21						
	020530	P	250 12	+++ ++	270 25	250 29	230 26	210 31	210 35	210 35	230 38	220 31	230 28	240 29	250 20	270 16	270 11				
	021130	T	220 12	+++ ++	220 21	220 23	230 23	230 25	220 32	210 39	220 43	210 40	220 36	230 27	250 22						
	021740	P	220 14	+++ ++	240 31	240 29	250 26	250 32	250 30	210 31	210 35	220 39	240 33	240 30							
CRAWLEY 03774	012330	T	210 15	+++ ++	240 32	240 34	230 30	230 29	230 34	240 30	230 42	230 33	230 36	250 29	260 25	260 19					
	020530	P	240 09	+++ ++	250 29	250 28	240 34	240 32	240 38	250 39	230 33	230 31	240 32	250 31							
	021110	P	210 12	+++ ++	220 32	230 28	230 35	240 40	240 45	230 53	240 49	240 47	240 45	250 35	240 22	260 21	260 08	240 06	220 02	190 09	180 21
	021730	P	240 13	+++ ++	250 35	250 38	250 37	260 40	250 42	250 45	250 55	250 58	270 57	260 41	270 31	270 21					
CAMBORNE 03808	012330	T	230 13	+++ ++	250 28	250 32	250 35	250 35	250 43	250 60	250 64	250 56	250 51	250 39	260 26	260 20	250 08				
	020530	P	220 12	+++ ++	240 29	240 31	240 32	250 33	250 46	250 65	250 65	250 53	250 52	260 43	250 33	260 19					
	021130	T	250 18	+++ ++	250 32	250 33	260 44	250 46	250 41	270 56	260 75	270 84	260 64	270 52	280 33	250 22	290 17				
	021730	P	250 22	+++ ++	260 28	270 31	270 34	270 37	280 40	280 54	280 90	280100	280 80	270 59	270 34	280 32					
VALENTIA 03953	020001	T	230 16	+++ ++	+++ ++	240 29	+++ ++	240 36	+++ ++	250 53	250 53	250 67	+++ ++	240 37	+++ ++	250 19					
	021200	T	260 16	+++ ++	+++ ++	270 31	+++ ++	280 42	+++ ++	290 49	280 55	280 71	+++ ++	280 50							
Ocean Weather Station 'I' 59°00'N 19°00'W	012300	T	360 28	+++ ++	360 36	360 39	360 30	360 31	010 23	040 20	030 15	040 13	020 06	030 06	040 05	280 04					
	020500	P	045 10	+++ ++	050 10	050 09	060 08	070 11	040 08	020 15	030 11	010 11	340 05	310 04	350 05	350 05	300 06				
	021100	T	050 27	+++ ++	050 30	060 28	070 21	060 21	060 19	030 17	020 12	330 16	030 07	010 04	320 11	300 10	290 06	330 08			
	021800	P	045 30	+++ ++	050 31	050 33	060 33	060 25	060 20	080 18	110 06	040 08	350 06	320 12	300 12	300 09					
Ocean Weather Station 'J' 52°30'N 20°00'W	012300	T	270 22	+++ ++	+++ ++	270 24	+++ ++	270 30	+++ ++	300 30	280 41	280 50									
	020600	P	270 30	+++ ++	300 36	300 35	310 34	300 32	300 29	300 32	300 48										
	021100	T	270 21	+++ ++	+++ ++	280 21	+++ ++	280 25	+++ ++	290 40	270 64										
	021800	P	270 20	+++ ++	280 22	280 16	280 26	270 30	280 34	270 49	270 50										
LARKHILL 03743	020630	P	200 08	+++ ++	250 22	250 31	240 29	240 29	240 38	240 36	240 34	230 40	240 40	250 40	250 27	260 18	270 14	270 13			
	021030	P	200 15	+++ ++	230 26	230 32	230 31	240 42	240 43	240 49	230 70	230 67	240 50	270 38	240 23	250 25					

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
021153	58.0°N 24.9°W	990 982 860	061 08 07	088- 05 02	774 03 03	1231 01- 01-	1716 05- 03-	07- 11-	2755 11- 15-	14- 17-	3923 19- 19-	24- 24-	5255 27- 32-	
Cloud :— 7/8 St 1100 to 1300 ft. 1/8 Cu 1500 to 9000 ft 6/8 Sc 1900 to 2700 ft 7/8 Sc 3300 to 5000 ft 1/8 Ac 8000 to 9000 ft 1/8 Ci at 20000 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 :—														
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.			

STATION		MAX. WIND
LERWICK 03005	22500m 080 10 11300/4 P20400m 190 05 21900m 030 03 05650/0 10300/1	150 62 08760m 160 67 07050m
STORNOWAY 03026	17700m 270 05 09050/1 057mb 280 04 16800m 250 07	170 74 08250m 150 64 08430m
SHANWELL 03170	28800m 140 08 30300m 200 14 09430/1 20400m 020 07 15600m 250 13	180 65 08780m
ALDERGROVE 03917	032mb 100 03 19150m 300 09 15050m 260 21	
AUGHTON 03322	06600m 220 49 09900m 220 47 00720/0 06780/0 07150 /0 09470/1 10020/1 041mb 290 04 21900m 310 06	220 75 07770m
HEMSBY 03496	118mb 270 20 20040m 290 06 130mb 250 19 13570m 250 27 04520/5	
CRAWLEY 03774	074mb 290 11 13200m 250 21 28800m 060 10 33000m 250 16 34500m 110 08	270 63 09920m
CAMBORNE 03808	057mb 270 08 17100m 280 17 04620/0 06120m 280 76 16800m 310 29 05770/0 07290/0 15750/1	250 67 05940m 250 72 06300m 270 96 08280m 280 102 08810m
VALENTIA 03953	969mb 230 26 755mb 240 38 627mb 240 43 211mb 240 48 087mb 250 20 964mb 260 26 644mb 280 43 473mb 280 54 247mb 230 58 178mb 280 28 142mb 280 34	250 70 09300m
Ocean Weather Station 'I' 59°00'N 19°00'W	089mb 280 10 20400m 290 04 344mb 320 23 039mb 010 05 17400m 260 06 06880/2 09130/5	
Ocean Weather Station 'J' 52°30'N 20°00'W	894mb 270 24 261mb 280 55 215mb 280 38 00300m 280 29 00600m 290 30 971mb 270 21 795mb 280 27 582mb 260 34 00300m 260 18 00600m 280 20	
LARKHILL 03743	22500m 240 15 11670/4	230 78 06620m

NOTES ON THE AEROLOGICAL SITUATION

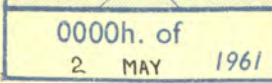
The low south of Hudsons Bay has moved southeast. Over the western Atlantic the low southeast of Newfoundland has continued its easterly track and is filling. The low west of the British Isles has also moved east whilst its downwind ridge has moved east into western Europe and has amplified. The low centre which yesterday was over the Balkans and northern Adriatic has filled but its residual trough persists from southwestern Russia to the central Mediterranean.

AVERAGE AND EXTREME VALUES 1951-55							
MAY							
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	22145	-50.1	-46	-55	...	...	(10)
60	19500	-50.3	-43	-60	102	2	11
100	16180	-51.4	-44	-62	283	3	13
150	13540	-51.0	-42	-62	288	7	19
200	11680	-53.8	-39	-69	288	10	27
300	9070	-48.8	-37	-56	281	11	36
400	7125	-35.0	-27	-49	282	10	32
500	5530	-23.2	-15	-38	283	8	26
700	2985	-7.0	1	-20	289	4	20
850	1450	0.9	11	-10	310	2	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		254	-57.8		10230		
Max.		479	-39		12800		
Min.		171	-69		5545		
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	22100	-52.2	-50	-58	85	9	11
60	19480	-52.8	-46	-62	69	1	10
100	16195	-53.8	-44	-61	284	5	14
150	13590	-53.3	-46	-65	284	10	22
200	11750	-55.3	-42	-67	282	15	34
300	9140	-47.7	-38	-56	274	15	45
400	7180	-33.4	-23	-48	270	13	38
500	5580	-21.4	-11	-34	267	11	31
700	3015	-5.3	6	-16	258	7	23
850	1470	3.0	15	-6	254	5	20
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		244	-58.0		10560		
Max.		405	-39		13685		
Min.		158	-72		6825		
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	...	...	...	...	180	2	8
60	19500	-59.3	-57	-66	270	6	10
100	16315	-60.2	-51	-67	270	24	26
150	13775	-59.1	-49	-71	275	40	43
200	11970	-58.9	-48	-67	275	48	53
300	9355	-43.8	-39	-49	275	42	50
400	7365	-28.2	-23	-38	275	34	40
500	5720	-16.0	-12	-28	275	27	32
700	3095	2.2	9	-9	275	16	23
850	1500	12.2	24	2	275	9	16
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		117	-65.1	...	80	...	-71
		199	-60.9	365	...	-41	...

* 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 in geopotential decametres



STATION	ww N _h C _L hC _M C _H	PRESSURE																										TROPOPAUSE				
		MSL	Surf.	0°C level																										mb	m	°C
LERWICK 03005	45 9+0++	996	986	826	980 50-	++ 280	03 55-	994 206	04 48-	01 108	933 51-	05 01	861 01	05- 853	++ 05-	842 ++	09- 801	01- 13-	682 ++	25- 511	27- 39-	390 39-	280	09280	55-							
	02 862++	997	987	839	970 341	06 50-	04 226	876 49-	01 197	01- 46-	850 144	01 51-	03- 776	05- 100	09- 51-	718 060	08- 54-	13- 616	++ 20-	583 20-	27- 541	23- 30-	409 40-	46-	341	07940	50-					
STORNOWAY 03026	21 785++	992	991	854	961 47-	++ 210	04 45-	730 091	08- 53-	12- 079	694 53-	09- 13-	520 ++	32- 468	++ 38-	411 40-	47- 367	47- 356	46- 336	48- 312	49- 296	336	08010	48-								
	02 32531	995	993	847	984 36-	10 403	05 40-	913 48-	04 362	01 46-	860 347	++ 46-	03- 771	++ 51-	07- 724	++ 230	15- 45-	653 ++	20- 599	++ 22-	569 ++	31- 558	23- 32-	519 25-	309	08570	51-					
SHANWELL 03170	01 00902	995	994	845	982 45-	07 159	03 48-	970 100	08 52-	04 056	835 54-	01- 043	803 52-	01- 05-	562 21-	28- 406	40- 44-	372 46-	345 49-	253 46-	241 45-	174	345	07840	49-							
	25 58500	998	997	836	976 243	11 46-	04 128	840 48-	00 104	04- 52-	808 100	++ 50-	06- 770	04- 054	12- 56-	703 048	++ 52-	15- 662	++ 21-	494 29-	36- 386	40- 47-	302 52-	289 53-	289	09090	53-					
ALDERGROVE 03917	01 18500	997	987	846	978 20-	08 29-	06 507	900 27-	++ 34-	865 454	02 31-	01- 39-	821 362	02- 45-	03- 303	813 51-	++ 191	03- 46-	793 160	02- 150	05- 48-	752 080	++ 54-	13- 689	10- 14-	604 ++	21-	563	303	08760	51-	
	25 584++	999	990	839	986 347	++ 46-	05 298	775 53-	++ 214	08- 46-	756 161	06- 49-	10- 134	09- 47-	16- 113	652 104	++ 49-	22- 623	16- 097	23- 52-	580 060	++ 50-	24- 493	26- 30-	390 39-	44-	298	08900	53-			
AUGHTON 03322	02 50930	000	993	841	976 30-	09 35-	04 397	950 40-	08 46-	05 360	921 45-	++ 299	02 49-	821 229	++ 46-	03- 121	760 49-	06- 091	08- 55-	739 084	06- 52-	11- 054	711 54-	++ 17-	682 10-	21- 631	14- 21-	465	299	08870	49-	
	02 784++	004	997	847	987 19-	10 25-	05 548	920 21-	04 26-	02 513	797 24-	03- 31-	05- 467	++ 34-	754 442	++ 38-	13- 388	731 40-	++ 46-	12- 294	09- 53-	13- 184	697 47-	10- 100	19- 53-	622 033	15- 48-	570 030	294	09050	53-	
HEMSBY 03496	25 34500	002	001	850	988 ++	09 30-	06 405	924 40-	++ 47-	04 357	897 44-	04 296	01 47-	852 209	++ 45-	01- 803	03- 190	04- 48-	735 07-	12- 664	++ 21-	631 15-	22- 604	++ 25-	539	296	08960	47-				
	25 49463	006	005	829	988 40-	11 45-	05 287	910 53-	06 173	02 48-	775 133	04- 52-	07- 711	++ 16-	670 ++	18- 648	12- 23-	620 14-	25- 560	19- 22-	540 20-	24- 367	287	09280	53-							
CRAWLEY 03774	02 00900	006	988	845	984 171	09 49-	07 150	940 51-	++ 05	887 ++	01- 850	00 03-	783 02-	09- 752	++ 13-	514 24-	34- 374	++ 49-	332 46-	279 52-	279	09420	52-									
	03 634+2	008	991	845	982 ++	26- 528	++ 30-	933 360	06 ++	01 360	870 ++	02- 50-	832 275	++ 54-	05- 229	763 52-	06- 206	08- 56-	745 201	03- 52-	12- 147	707 51-	++ 136	624 54-	++ 092	585 54-	++ 28-	550 042	275	09590	54-	
CAMBORNE 03808	01 24500	007	996	854	985 50-	09 100	06 56	831 040	02- 54-	04- 790	02- 10-	782 ++	11- 721	05- 19-	620 12-	26- 545	19- 31-	388 37-	49- 361	41- 289	289	09220	50-									
	02 754++	007	997	792	988 286	06 51-	03 277	908 50-	05 212	01 55-	826 193	02 53-	01 176	724 57-	05- 169	06- 53-	11- 123	19- 52-	546 105	18- 55-	26- 074	497 55-	++ 055	28- 422	29- 51-	34- 036	346 52-	40- 45	212	11380	55-	
VALENTIA 03953	01 53400	002	000	850	963 278	09 50-	07 256	807 51-	02- 210	04- 46-	777 190	02- 48-	06- 175	727 46-	15- 142	678 50-	08- 119	19- 48-	601 098	13- 50-	27- 469	24- 29-	404 32-	36- 353	40- 45-	256	10100	51-				
	02 785++	002	000	850	984 361	09 38-	06 44-	836 340	01- 43-	02- 291	771 52-	04- 274	05- 53-	741 229	03- 48-	05- 211	576 49-	16- 194	19- 47-	548 148	18- 49-	22- 135	476 47-	24- 099	29- 52-	431 064	31- 54-	37- 379	37 - 43-	274	09600	53-
Ocean Weather Station 'I' 59°00'N 19°00'W	80 784++	985	985	849	970 51-	08 307	05 51-	903 272	03 46-	01 184	769 44-	++ 092	06- 51-	705 066	++ 51-	11- 660	11- 044	18- 54-	586 ++	21- 551	++ 26-	449 33-	40- 405	40- 46-	332	332	08100	51-				
	02 58479	986	986	840	969 ++	30- 452	++ 40-	911 386	03 40-	01 47-	893 310	03 50-	02- 292	883 47-	++ 191	05- 292	816 47-	++ 191	08- 42-	724 102	08- 51-	12- 081	704 51-	08- 038	12- 55-	636 14-	17- 580	19- 23-	499	310	08500	50-
Ocean Weather Station 'J' 52°30'N 20°00'W	03 59470	998	998	860	815 095	04- 03-	06- 05-	786 740	02- 08-	12- 16-	600 690	17- 10-	24- 24-	470 590	28- 18-	32- 20-	345 480	46- 27-	51- 36-	268 410	47- 36-	191 48-	46- 341	090 48-	54-	300	08800	53-				
	01 39441	996	996	880	812 095	03- 03-	05- 05-	740 740	08- 08-	16- 16-	690 690	10- 10-	24- 24-	590 590	18- 18-	20- 20-	480 480	27- 27-	36- 36-	410 410	36- 36-	48- 48-	341 341	48- 48-	230 230	45- 45-	170 170	49- 49-	155 155	47-	300	08800	54-

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YGGgg	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 :— <div style="text-align: right;">Isothermal Levels :—</div>														
YGGgg	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 :— <div style="text-align: right;">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.			

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	116mb 230 03 19200m 240 06 06830/0 19800m 270 04	
STORNOWAY 03026	084mb 270 10 15700m 240 10 095mb 260 12 21300m 260 04 17510/2	
SHANWELL 03170	350mb 180 15 22800m 330 03 P26100m 100 06 10200/1 16740/1	
ALDERGROVE 03917	06200/3	260 62 07700m
AUGHTON 03322	058mb 220 09 17100m 270 08 22200m 250 02	270 69 08950m
HEMSBY 03496	207mb 250 33 19500m 250 07	290 64 07190m 270 74 09550m
CRAWLEY 03774	170mb 270 42 10820/1 08100m 280 81 28800m 190 16 33000m 170 16 36000m 160 11 07650/0 08500/0 09310/1 09600/1 08470m 270 73 15600m 280 33 08200/0 08700/0 09130/0 09560/0 10000/1	290 81 09150m 280 74 10620m 290 112 09140m 280 146 09780m
CAMBORNE 03808	042mb 240 07 08150m 270 94 11100m 280 81 13500m 270 64 08150/0 08700/0 09150/0 09950/1 10300/1 10750/1 450mb 260 57 14700m 250 41 10780/1 11790/1	280 98 10740m 270 148 09750m 270 119 10140m 270 127 10450m
VALENTIA 03953	963mb 250 20 777mb 250 28 601mb 260 42 256mb 260 67 984mb 220 15 741mb 240 28 576mb 250 38 274mb 240 67 194mb 250 54	260 69 10340m 240 68 09080m
Ocean Weather Station 'I' 59°00'N 19°00'W	360mb 060 21 278mb 080 11 060mb 220 05 18600m 330 05 07600/1 12120/6 16890/2 174mb 270 08 091mb 220 11 080mb 260 08 060mb 190 05 042mb 210 04 15600m 260 04	
Ocean Weather Station 'J' 52°30'N 20°00'W	815mb 260 29 786mb 260 30 470mb 270 45 00300m 260 15 00600m 260 16 812mb 290 05 740mb 280 28 590mb 240 36 480mb 250 46 410mb 260 52 341mb 260 60 00300m 310 14 00600m 310 18	
LARKHILL 03743	13000/1 08290/0 15500/1	280 92 09200m 270 108 08950m

NOTES ON THE AEROLOGICAL SITUATION

The eastward movement of features in the westerly stream south of 50°N latitude has continued. The low vortex northwest of the British Isles has filled slowly, whilst the ridge over Scandinavia has shown little change.

AVERAGE AND EXTREME VALUES 1951-55
MAY

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	22145	-50.1	-46	-55	...	...
60	19500	-50.3	-43	-60	102	2 11
100	16180	-51.4	-44	-62	283	3 13
150	13540	-51.0	-42	-62	288	7 19
200	11680	-53.8	-39	-69	288	10 27
300	9070	-48.8	-37	-56	281	11 36
400	7125	-35.0	-27	-49	282	10 32
500	5530	-23.2	-15	-38	283	8 26
700	2985	-7.0	1	-20	289	4 20
850	1450	0.9	11	-10	310	2 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9 11
60	19480	-52.8	-46	-62	69	1 10
100	16195	-53.8	-44	-61	284	5 14
150	13590	-53.3	-46	-65	284	10 22
200	11750	-55.3	-42	-67	282	15 34
300	9140	-47.7	-38	-56	274	15 45
400	7180	-33.4	-23	-48	270	13 38
500	5580	-21.4	-11	-34	267	11 31
700	3015	-5.3	6	-16	258	7 23
850	1470	3.0	15	-6	254	5 20

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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

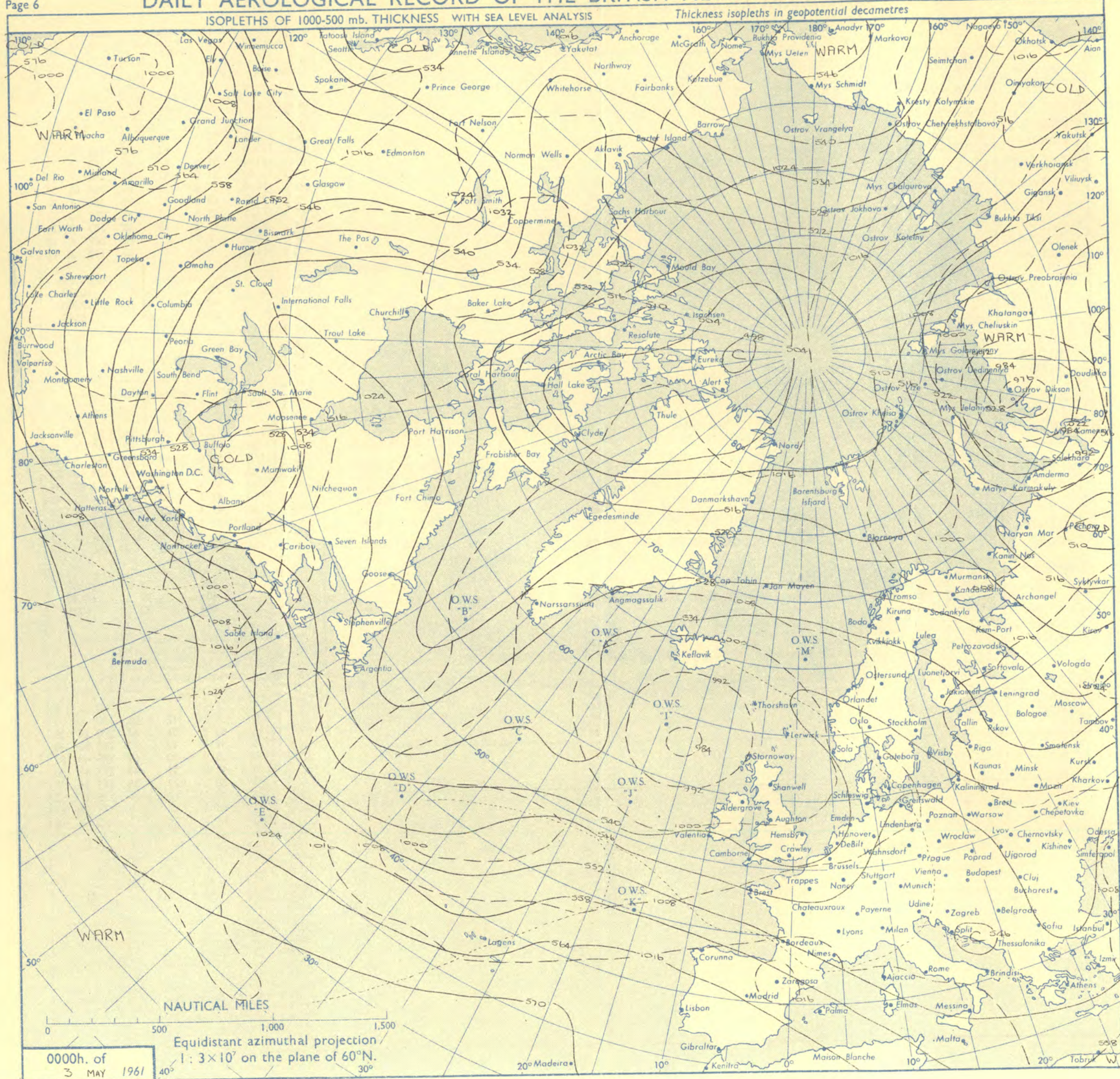
Press. Level	Average Height	Average Temp.	Extreme Temp. Max.	Extreme Temp. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	...	...	...	...	180	2 8
60	19500	-59.3	-57	-66	270	6 10
100	16315	-60.2	-51	-67	270	24 26
150	13775	-59.1	-49	-71	275	40 43
200	11970	-58.9	-48	-67	275	48 53
300	9355	-43.8	-39	-49	275	42 50
400	7365	-28.2	-23	-38	275	34 40
500	5720	-16.0	-12	-28	275	27 32
700	3095	2.2	9	-9	275	16 23
850	1500	12.2	24	2	275	9 16

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	117	-65.1	...	80	...	-71
Lower	199	-60.9	365	...	-41	...

* 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.

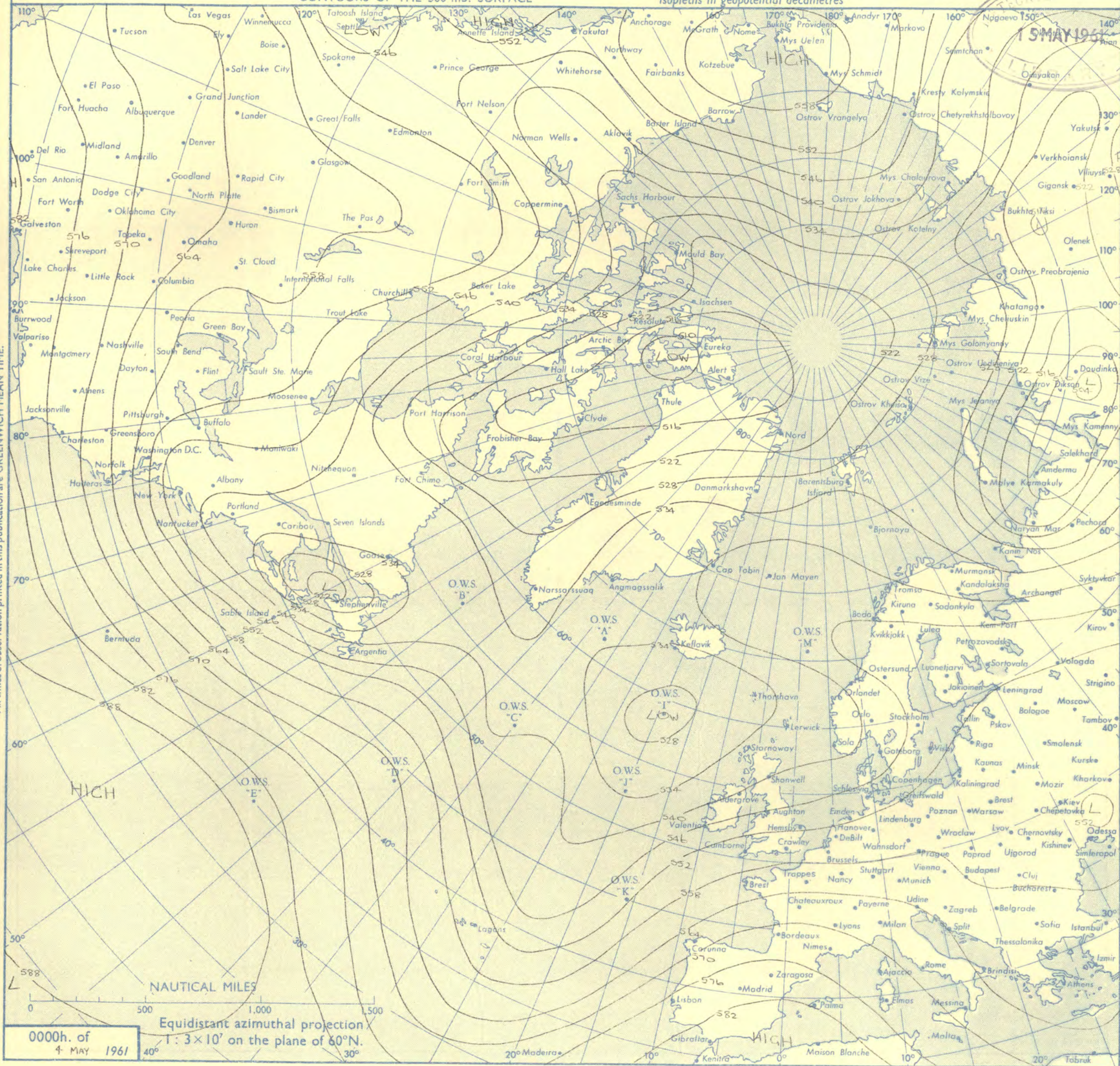


CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

15 MAY 1961

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	032334	082	07	07	003	++	++	1330	01	02	2858	10	13	5365	28	36	6926	41	++	8831	50	++	11519	46	13424	48	16085	51	18403	52	20578	52								
	041130	082	11	08	028	++	++	1356	02	04	2886	10	15	5410	25	28	6990	37	40	8910	52	++	11556	46	13465	48	16138	50	18448	53	20613	53	23909	53						
STORNOWAY 03026	032333	013	09	07	013	++	++	1310	00	03	2840	09	15	5352	28	35	6916	40	47	8827	52	++	11493	47	13399	48														
	041130	013	10	07	003	++	++	1331	01	04	2856	10	16	5371	27	31	6936	40	46	8836	54	++	11497	47	13396	49	16029	54	18317	55										
SHANWELL 03170	032340	005	04	04	016	05	03	1345	01	03	2877	09	13	5399	25	31	6983	38	44	8901	54	++	11537	48	13435	49	16078	52	18372	54	20535	53	23829	53						
	041130	005	14	10	004	++	++	1341	03	02	2887	07	11	5430	24	34	7021	36	46	8951	51	++	11593	48	13485	49	16133	52	18428	53	20596	53								
ALDERGROVE 03917	032330	077	10	08	003	++	++	1334	02	00	2871	08	11	5413	24	28	6999	37	42	8928	53	++	11569	48	13461	49	16108	52	18401	54										
	041130	077	14	09	015	++	++	1327	02	++	2866	07	++	5417	24	++	7006	37	++	8938	52	++	11551	49	13437	50	16078	52	18378	53										
AUGHTON 03322	032330	056	11	07	039	++	++	1377	03	01	2921	06	10	5480	22	29	7079	35	41	9025	48	++	11655	51	13544	48	16182	54												
	041130	056	15	11	021	++	++	1368	03	01	2916	06	07	5486	21	27	7102	32	41	9052	51	++	11651	51	13529	50	16170	53	18479	51	20680	50								
HEMSBY 03496	032330	012	09	06	067	10	06	1404	03	02	2951	06	11	5502	23	32	7092	37	46	9028	50	++	11604	56	13456	53														
	041130	012	14	13	054	13	11	1409	07	03	2977	02	06	5569	20	28	7186	32	37	9149	48	++	11751	52	13608	51	16222	56	18504	55										
CRAWLEY 03774	032330	144	11	11	071	++	++	1416	05	02	2974	04	05	5549	21	37	7164	32	45	9138	47	++	11716	61	13550	54	16151	57	18408	56										
	041130	144	14	12	067	++	++	1416	06	04	2985	01	12	5583	18	30	7209	31	43	9181	47	++	11794	58	13624	54	16227	56	18489	56										
CAMBORNE 03808	032330	088	12	12	042	++	++	1390	05	03	2955	02	08	5537	20	25	7160	30	37	9140	46	++	11741	59	13573	53	16180	57	18439	56	20586	55								
	041130	088	12	12	025	++	++	1375	06	04	2935	03	06	5520	19	25	7137	32	38	9103	48	++	11728	53																
VALENTIA 03953	032330	014	12	11	017	++	++	1329	04	03	2885	05	13	5450	23	33	7040	35	45	9000	47	++	11610	58																
	041130	014	12	09	008	++	++	1324	03	01	2872	05	10	5430	23	28	7020	37	43	8940	51	++	11570	49	++++	++	16090	52												
Ocean Weather Station 'I' 59°00'N 19°00'W	032300		09	07	113	++	++	1214	01	00	2747	09	11	5260	26	31	6840	40	46	8770	45	++	11480	43	13410	46	16080	50	18410	52										
	041200		09	07	083	++	++	1242	00	01	2772	09	13	5280	28	31	6840	42	++	8760	46	++	11450	45																
Ocean Weather Station 'J' 52°30'N 20°00'W	032300		10	04	010	++	++	1312	02	04	2836	10	20	5350	27	39	6910	40	51	8810	52	++	11470	47	13370	49	16020	++												
	041300		10	05	019	10	05	1344	01	02	2866	10	14	5380	26	36	6950	39	48	8860	49	++	11560	45	13470	47	16130	51												

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	47 9+0++	000	990	833	930 ++ 01 916 05 00 848 01 02- 779 05- 06- 736 07- 09- 716 ++ 13- 660 ++ 16- 642 ++ 19- 590 ++ 23- 570 ++ 29- 437 35- 43- 407 40- 46- 358 47- 326 50- 236 45- 100 51- 044 53-	326	08290	50-
	03 21438	003	993	819	978 08 03 880 02 03- 847 02 05- 775 ++ 08- 726 ++ 13- 697 10- 11- 586 17- 20- 382 40- 43- 277 56- 256 50- 214 46- 100 50- 075 53- 030 53- Pressure suspect above 100mb.	277	09420	56-
STORNOWAY 03026		998	997	848	976 ++ 06 946 06 04 880 ++ 01- 780 05- 06- 730 ++ 12- 720 ++ 14- 664 ++ 18- 639 14- 23- 558 ++ 29- 402 40- 47- 308 52- 227 46- 167 46- 134 50- 121 50-	308	08650	52- (134 14160 50-)
	01 12646	000	998	844	963 10 05 904 05 00 893 06 01 870 03 02- 820 02- 05- 770 06- 08- 748 06- 12- 704 ++ 17- 665 ++ 16- 568 19- 23- 503 27- 31- 464 ++ 38- 402 40- 46- 306 54- 230 47- 166 48- 089 55- 055 55-	306	08700	54-
SHANWELL 03170	02 00900	002	001	831	989 09 05 920 ++ 03 777 ++ 08- 730 ++ 11- 604 17- 21- 554 20- 27- 476 28- 34- 382 40- 46- 278 58- 247 49- 227 47- 100 52- 080 55- 030 53-	278	09400	58-
	03 574++	001	000	789	994 12 08 927 07 05 856 03 02 788 00 04- 771 ++ 04- 745 03- 09- 690 09- 13- 680 08- 12- 668 ++ 14- 568 ++ 27- 487 25- 34- 372 40- 50- 326 48- 284 54- 263 54- 238 49- 135 48- 100 52- 059 54- 044 52- 038 55-	284	09300	54-
ALDERGROVE 03917	65 463++	000	991	820	983 ++ 06 909 ++ 03 704 07- 10- 583 15- 18- 376 40- 45- 290 55- 276 55- 264 51- 199 48- 107 51- 080 55- 057 54-	290	09130	55-
	25 785++	998	989	818	981 12 767 04- 641 09- 522 22- 471 26- 429 33- 419 33- 261 58- 213 49- 132 52- 127 49- 077 54- 063 54- 061 49- 052 47-	261	09830	58-
AUGHTON 03322	60 856++	005	998	804	987 11 07 901 06 04 724 06- 10- 708 05- 08- 649 ++ 15- 612 ++ 17- 608 13- 19- 592 13- 20- 412 ++ 38- 364 40- 46- 279 51- 252 53- 171 49- 164 46- 101 54- 071 53-	252	10160	53- 111 15500 53-
	25 5857+	003	996	788	970 12 09 845 03 02 782 00 03- 734 ++ 05- 614 ++ 13- 549 16- 21- 500 21- 27- 470 ++ 29- 452 25- 34- 424 ++ 40- 356 40- 48- 264 59- 245 54- 137 48- 092 54- 033 46-	264	09860	59-
HEMSBY 03496	01 00900	008	007	814	996 11 06 979 11 06 901 ++ 03 890 ++ 01- 860 ++ 03- 809 00 03- 782 00 04- 763 ++ 05- 732 ++ 10- 680 ++ 13- 632 12- 19- 598 ++ 20- 562 16- 26- 502 ++ 31- 480 ++ 36- 382 40- 47- 323 46- 257 58- 226 60- 213 55- 148 53- 120 56-	226	10840	60-
	21 673++	007	005	740	990 12 10 910 10 08 883 10 06 760 01 02- 739 00 05- 611 08- 13- 587 11- 15- 552 14- 25- 471 23- 29- 347 40- 46- 283 52- 228 58- 211 56- 205 51- 188 54- 133 50- 101 56- 062 52-	228	10900	58- 101 16170 56-
CRAWLEY 03774	60 874++	009	991	766	932 09 06 896 ++ 05 867 ++ 03 678 ++ 07- 657 ++ 13- 615 ++ 17- 599 11- 22- 551 ++ 31- 468 24- 40- 379 35- 47- 236 60- 201 61- 186 55- 139 53- 085 58- 070 56-	236	10700	60-
	02 854++	008	991	716	923 09 07 833 ++ 02 800 ++ 02- 764 01 03- 752 02 04- 744 ++ 07- 719 ++ 08- 696 ++ 13- 627 07- 18- 558 12- 26- 340 40- 50- 286 49- 204 58- 184 59- 169 54- 113 53- 098 57- 064 54-	204	11650	58- 098 16360 57-
CAMBORNE 03808	51 861++	005	995	758	983 ++ 09 808 ++ 02 722 02- 05- 696 02- 09- 662 ++ 13- 633 ++ 18- 595 ++ 17- 557 ++ 22- 500 ++ 25- 493 21- 26- 482 21- 27- 433 ++ 33- 370 34- 40- 337 40- 46- 273 52- 231 58- 215 57- 194 60- 163 53- 129 52- 098 58- 063 55- 046 55-	231	10860	58-
	10 862++	003	993	760	976 ++ 09 966 10 08 887 08 06 759 00 03- 711 02- 05- 667 06- 09- 641 06- 13- 551 15- 23- 526 17- 23- 474 22- 28- 347 40- 46- 278 52- 246 51- 208 56- 197 52- 158 51-	208	11460	56-
VALENTIA 03953	58 863++	998	996	770	996 12 11 783 01 01- 546 17- 27- 477 26- 37- 367 40- 49- 345 40- 49- 295 48- 248 52- 223 57- 127 54- 33- 38- 367 43- 303 50- 270 57- 245 51- 221 49- 091 52- 078 57- 041 56-	220	10900	57-
	02 754++	999	997	775	877 02 00 848 03 01 814 01 04- 777 00 07- 739 04- 10- 514 07- 12- 607 13- 20- 522 21- 25- 487 24- 29- 426 33- 38- 367 43- 303 50- 270 57- 245 51- 221 49- 091 52- 078 57- 041 56-	270	09600	57- 078 17500 57-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 856++	986	986	839	986 09 07 973 ++ 05 944 ++ 04 654 ++ 15- 637 14- 17- 486 28- 33- 396 42- 366 44- 279 46- 198 43- 082 51- 070 52-	366	07400	44-
	80 685++	990	990	854	960 07 05 828 02- 03- 730 07- 08- 710 08- 12- 650 ++ 15- 588 19- 23- 533 ++ 28- 411 40- 44- 370 46- 197 45- 59°00'N 19°00'W	370	07400	46-
Ocean Weather Station 'J' 52°30'N 20°00'W	01 555++	998	998	875	998 10 04 840 03- 04- 817 01- 07- 657 13- 25- 538 22- 34- 311 52- 231 47- 176 47- 110 51- 52°30'N 20°00'W	311	08600	52-
	03 88400	002	002	865	861 00 01- 775 05- 07- 600 17- 24- 543 21- 31- 408 37- 47- 320 51- 260 46- 186 45- 093 52- 070 50- 52°30'N 20°00'W	320	08400	51-

STATION		MAX. WIND
LERWICK 03005	21900m 140 04 P23100m 180 08	
STORNOWAY 03026	127mb 250 12 08970/1 060mb 200 15 15000m 210 15	240 65 08180m
SHANWELL 03170	P26100m 190 07 21800m 140 05 P27400m 120 07 17700m 220 07 07280/0 09820/1 10280/1 12250/1	240 72 09170m 220 80 09200m
ALDERGROVE 03917	11600m 240 43 06300/3 11320/1 11830/1 343mb 230 67 238mb 230 53 055mb 040 02 06400/6 07760/0 10060/1	230 63 08240m 220 93 09200m 200 67 09380m
AUGHTON 03322	077mb 260 12 06000m 250 54 11400m 250 61 19500m 250 03 05740/0 06140/0 11470/1 035mb 240 06 13800m 230 22 12060/1	260 94 09380m 250 88 10700m 250 75 10380m 210 61 09900m
HEMSBY 03496	339mb 270 76 130mb 260 26 10220/0 10590/1 12060/1 223mb 250 85 06000m 240 51 12900m 250 38 10750/1 12500/1	270 136 09930m 270 99 10900m 260 98 10180m 240 103 09850m
CRAWLEY 03774	176mb 270 64 080mb 260 15 12300m 270 64 14700m 260 29 06250/0 08180/0 09280/0 11580/1 11850/1 12400/1 20400m 240 06 09900/0 11640/1 13400m 250 32 06130/0 10140/0 10670/0 11600/1 12310/1	280 102 10660m 270 111 10800m 250 107 10130m 230 113 10920m
CAMBORNE 03808	12900m 240 66 13500m 240 49 10600/0 11960/1 12330/1 12700/1 12900/1 168mb 230 53 15000m 230 36 08200/0	260 116 11020m 240 120 10900m 220 109 10190m 220 80 08830m
VALENTIA 03953	783mb 220 34 546mb 230 39 248mb 250 120 223mb 250 86 00300m 360 10 00600m 330 08 18000m 180 11 21600m 250 08	250 128 10000m
Ocean Weather Station 'I' 59°00'N 19°00'W	339mb 240 13 072mb 280 15 12600m 140 01	
Ocean Weather Station 'J' 52°30'N 20°00'W	817mb 320 10 657mb 270 15 231mb 240 30 00300m 290 12 00600m 300 14 00300m 320 13 00600m 320 13 09900m 240 24 04700/4 06800/4 07750/5 00300m 310 18 00600m 320 20	
LARKHILL 03743	08000/0 12970/1 20730m 070 04	250 119 10590m 240 112 10500m

NOTES ON THE AEROLOGICAL SITUATION

The low over eastern America has continued to move eastnortheast and deepen. The downstream ridge has amplified slightly whilst the trough near the Azores has deepened. The low vortex northwest of the British Isles has drifted slowly west, but a trough extending eastwards to southern Scandinavia has continued to move northeast. The ridge over northern Scandinavia has also moved slowly northeast.

AVERAGE AND EXTREME VALUES 1951-55

MAY

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	22145	-50.1	-46	-55	...	10
60	19500	-50.3	-43	-60	102	2
100	16180	-51.4	-44	-62	283	3
150	13540	-51.0	-42	-62	288	7
200	11680	-53.8	-39	-69	288	10
300	9070	-48.8	-37	-56	281	11
400	7125	-35.0	-27	-49	282	10
500	5530	-23.2	-15	-38	283	8
700	2985	-7.0	1	-20	289	4
850	1450	0.9	11	-10	310	2

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9
60	19480	-52.8	-46	-62	69	1
100	16195	-53.8	-44	-61	284	5
150	13590	-53.3	-46	-65	284	10
200	11750	-55.3	-42	-67	282	15
300	9140	-47.7	-38	-56	274	15
400	7180	-33.4	-23	-48	270	13
500	5580	-21.4	-11	-34	267	11
700	3015	-5.3	6	-16	258	7
850	1470	3.0	15	-6	254	5

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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	...	...	...	...	180	2
60	19500	-59.3	-57	-66	270	6
100	16315	-60.2	-51	-67	270	24
150	13775	-59.1	-49	-71	275	40
200	11970	-58.9	-48	-67	275	48
300	9355	-43.8	-39	-49	275	42
400	7365	-28.2	-23	-38	275	34
500	5720	-16.0	-12	-28	275	27
700	3095	2.2	9	-9	275	16
850	1500	12.2	24	2	275	9

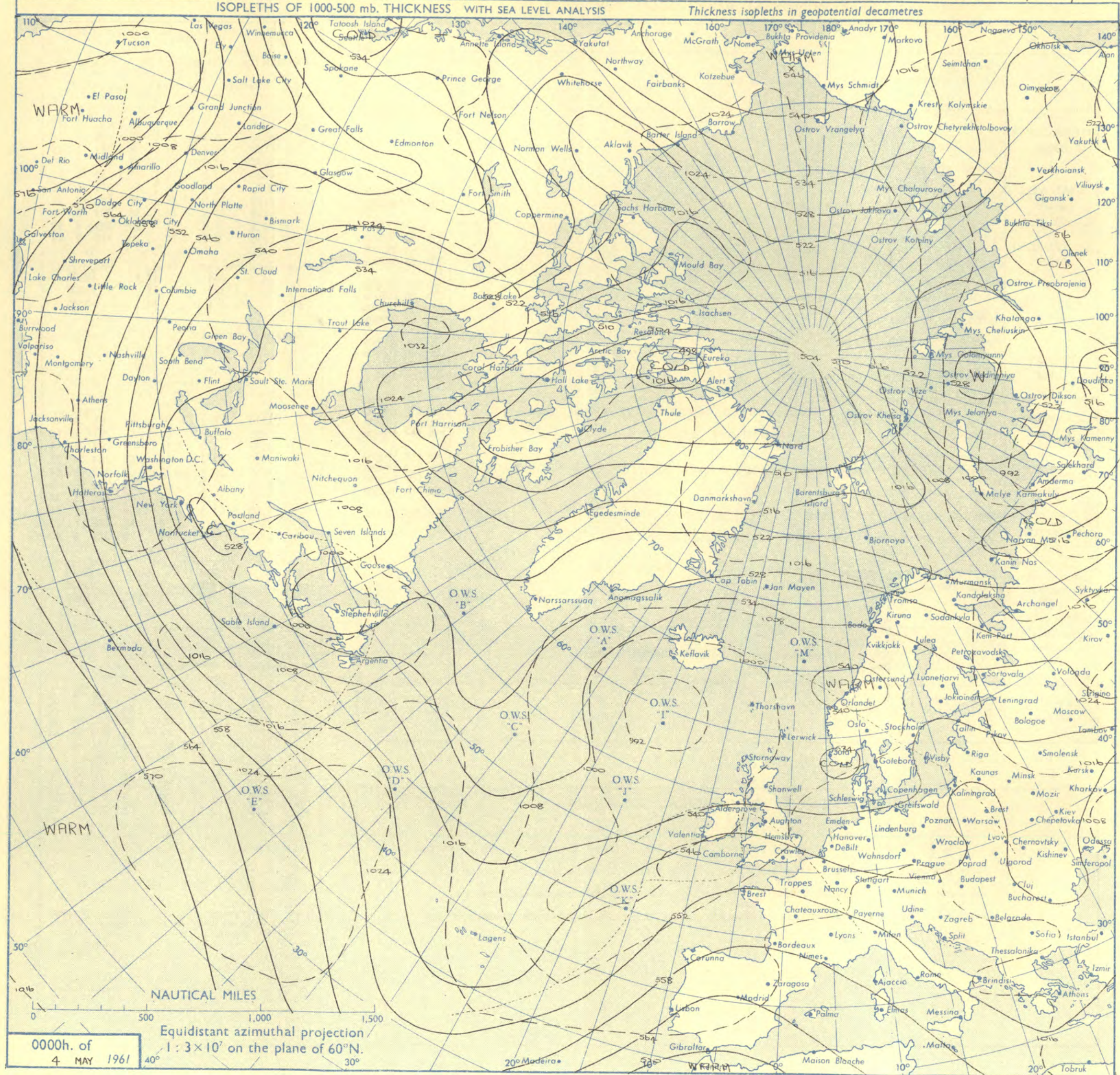
Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	117	-65.1	...	80	...	-71
Lower	199	-60.9	365	...	-41	...

* 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



This is a detailed meteorological map of the North Atlantic and Arctic regions, showing isobars, isotherms, and various weather systems. The map includes major cities, geographical features, and a scale bar. A date stamp "17 MAY 1961" is visible in the upper right corner.

Map Features:

- Isobars:** Lines representing constant atmospheric pressure, with values ranging from 980 to 1040 hPa.
- Isotherms:** Lines representing constant temperature, with values ranging from 10°C to 20°C.
- Weather Systems:** Several low-pressure systems (L) and high-pressure systems (H) are depicted, along with associated cloud cover and precipitation patterns.
- Geographical Features:** The map shows the Arctic region, including Greenland, Iceland, and the British Isles, as well as the North Atlantic Ocean and parts of North America and Europe.
- Scale and Projection:** The map uses an equidistant azimuthal projection with a scale of 1:3 x 10⁷ on the plane of 60°N. A scale bar indicates distances in nautical miles (0 to 1,500).
- Date and Time:** The map is dated 17 MAY 1961, with a time of 0000h.

HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

STATION	YYGG _{gg}	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	042330	082	07	07	013	++	++	1342	03	00	2885	07	09	5428	24	28	7013	37	41	8940	52	++	11575	48	13469	49	16119	50	18425	53										
	051130	082	08	08	009	++	++	1316	01	01	2859	06	09	5411	22	27	7009	35	40	8952	51	++	11600	47	13507	47	16186	49	18509	52										
STORNOWAY 03026	042338	013	05	04	000	++	++	1326	01	03	2860	07	20	5401	24	35	6986	37	47	8901	51	++	11570	46	13473	47	16138	50												
	051130	013	13	07	018	12	07	1347	00	02	2876	09	20	5398	25	37	6977	38	49	8900	50	++	11579	45	13487	48	16128	52	18429	53										
SHANWELL 03170	042330	005	10	09	021	++	++	1320	03	01	2869	05	10	5430	21	26	7035	34	39	8973	52	++	11620	47	13519	48														
	051130	005	16	07	003	++	++	1336	02	01	2876	06	13	5428	23	35	7023	36	47	8947	53	++	11598	47	13500	47	16157	50	18475	50	20673	50	24017	51						
ALDERGROVE 03917	042330	077	09	07	010	++	++	1318	03	01	2867	05	13	5428	22	34	7026	35	47	8964	51	++	11615	47	13515	48	16170	52	18475	52	20649	53								
	051130	077	12	06	046	++	++	1373	00	05	2899	09	18	5425	26	33	6997	40	45	8909	50	++	11580	46	13469	51	16096	52	18391	54	20551	55								
AUGHTON 03322	042330	056	12	11	035	++	++	1311	05	03	2870	04	05	5446	21	24	7045	35	39	8985	50	++	11672	48	13564	51	16204	52	18499	53										
	051130	056	12	08	059	12	08	1386	00	04	2922	06	22	5476	22	31	7073	36	44	9003	53	++	11663	46	13566	49														
HEMSBY 03496	050100	012	12	12	002	++	++	1357	06	04	2927	02	14	5517	20	34	7137	31	44	9107	47	++	11737	53																
	051130	012	15	10	050	14	09	1392	03	00	2943	05	13	5502	22	34	7097	36	47	9039	48	++	11717	48	13603	50	16237	52												
CRAWLEY 03774	042330	144	11	11	025	++	++	1365	04	02	2933	01	16	5517	22	28	7122	34	45	9073	48	++	11695	53	13544	51														
	051130	144	15	10	078	++	++	1425	03	01	2973	05	11	5531	23	31	7126	36	43	9071	47	++	11733	49	13606	51	16232	53												
CAMBORNE 03808	042330	088	11	10	027	++	++	1365	04	01	2916	05	11	5474	23	36	7063	37	49	8998	47	++	11667	49	13548	51	16172	54	18455	54	20613	55								
	051130	088	12	10	088	12	10	1418	02	00	2957	07	11	5495	25	30	7074	38	44	8994	47	++	11661	50	13535	53														
VALENTIA 03953	050003	014	09	07	038	09	07	1372	01	04	2916	06	18	5470	23	27	7060	36	40	9000	52	++	11650	47	16200	52														
	051200	014	12	08	093	12	08	1423	00	04	2956	07	16	5510	22	33	7110	33	44	9080	44	++	11740	51	++++	++	16230	53												
Ocean Weather Station 'I' 59°00'N 19°00'W	050001		09	07	039	++	++	1285	01	04	2806	10	15	5320	28	33	6880	40	44	8790	50	++	11470	46	13390	47	16060	50	18390	49	20590	50								
	051200		09	06	034	++	++	1284	01	02	2805	11	13	5300	28	33	6870	39	45	8820	46	++	11530	43	13460	46	16150	49												
Ocean Weather Station 'J' 52°30'N 20°00'W	042300		09	05	057	09	04	1377	02	02	2893	10	17	5420	24	36	7010	34	45	8970	47	++	11640	48	13530	50	16170	52	++++	++	20700	47	24100	++						
	051200		10	09	001	10	09	1321	00	01	2859	06	08	5420	20	25	7040	30	37	9020	47	++	11640	52	13520	49	16210	45	++++	++	20800	48								

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	45 9+0++	001 992 790	965 06 06 949 07 06 892 04 03 864 04 02 776 01- 05- 663 10- 13- 614 ++ 20- 574 16- 21- 551 ++ 24- 483 ++	30- 380 40- 45- 275 56- 248 51- 211 48- 100 50- 083 53- 055 53-		275	09500	56-
	61 771++	999 989 827	989 08 08 979 07 05 726 04- 07- 655 ++ 12- 491 23- 28- 366 39- 45- 269 57- 253 50- 227 47- 124 47- 100	49- 064 52-		269	09630	57-
STORNOWAY 03026	02 00900	000 998 833	968 08 03 918 ++ 02 819 01- 05- 800 01- 06- 790 02- 08- 781 ++ 08- 755 ++ 16- 635 12- 26- 508 23- 34-	383 40- 50- 325 50- 278 52- 244 47- 142 47- 090 51-		278	09380	52-
	80 62500	002 001 849	983 10 05 908 ++ 02 800 04- 05- 791 ++ 05- 778 03- 09- 755 ++ 14- 621 ++ 28- 597 17- 27- 541 21- 32- 391	39- 50- 312 50- 283 51- 257 47- 201 45- 115 52- 064 53-		283	09260	51-
SHANWELL 03170	02 864++	998 997 789	990 ++ 08 979 11 09 842 03 01 719 ++ 06- 702 05- 10- 696 ++ 11- 664 ++ 11- 603 12- 15- 546 18- 21- 507	20- 24- 366 40- 45- 293 53- 270 56- 264 51- 217 47- 121 49-		270	09650	56-
	02 51400	000 999 825	970 11 02 895 04 00 750 05- 09- 713 05- 11- 679 ++ 16- 572 16- 29- 409 34- 46- 285 56- 250 48- 100 50-	074 52- 038 48- 032 53- 030 51-		285 (032	09280 23600	56- 53-)
ALDERGROVE 03917	01 35600	999 989 797	915 04 02 887 05 01 843 ++ 01 795 ++ 04- 749 03- 06- 732 ++ 10- 713 04- 13- 674 ++ 13- 650 09- 18- 588	13- 24- 462 27- 40- 378 38- 49- 271 57- 256 49- 226 47- 141 48- 084 53- 045 52-		271	09610	57-
	25 68530	006 996 852	976 08 03 930 ++ 00 870 ++ 02- 840 ++ 07- 810 ++ 09- 796 04- 08- 782 ++ 06- 755 ++ 12- 746 06- 14- 632	++ 25- 546 20- 30- 499 26- 33- 447 33- 37- 396 ++ 45- 398 41- 318 50- 202 46- 109 53- 050 55-		318	08500	50-
AUGHTON 03322	81 894++	996 989 759	977 12 10 784 01 00 706 03- 04- 527 18- 21- 367 40- 44- 300 50- 289 47- 125 50- 095 53- 070 53-			300	08990	50-
	03 32542	007 000 844	986 09 06 959 07 05 929 05 00 886 ++ 03- 869 ++ 01- 838 01- 06- 760 ++ 17- 677 07- 24- 571 ++ 25- 524	20- 30- 456 ++ 34- 373 40- 47- 285 56- 253 47- 208 46- 110 52-		285	09330	56-
HEMSBY 03496	03 594++	000 999 738	979 14 12 967 ++ 10 900 09 08 868 07 05 791 02 01 695 ++ 15- 669 03- 16- 610 ++ 24- 344 40- 50- 314 45-	249 53- 161 53-		249	10310	53-
	02 484++	006 004 804 766	999 14 09 909 07 06 852 ++ 01 798 00 01- 782 01 02- 772 ++ 06- 690 06- 14- 667 ++ 14- 622 ++ 21- 590 ++ 20- 574	++ 21- 530 19- 30- 509 21- 33- 375 40- 50- 360 42- 271 49- 249 47- 129 52- 110 50- 090 55-		271 :090	09710 +++++	49- 55-
CRAWLEY 03774	20 774++	003 986 721	937 ++ 07 888 ++ 14 859 04 02 832 ++ 00 817 05 03- 778 04 09- 630 ++ 24- 584 10- 24- 487 23- 28- 470 24-	33- 448 ++ 39- 366 ++ 50- 333 44- 252 54- 177 55- 150 51-		252	10210	54-
	02 62402	009 992 799	986 13 09 910 07 05 840 ++ 01 819 ++ 03- 796 00 03- 773 ++ 03- 726 ++ 10- 658 08- 15- 532 19- 28- 373 ++	46- 356 43- 283 50- 236 48- 117 53- 106 52- 092 56-		283 (092	09460 16768	50- 56-
CAMBORNE 03808	02 863++	003 993 792	898 06 05 870 05 01 811 01 00 750 ++ 06- 730 ++ 11- 662 08- 12- 623 ++ 15- 588 14- 24- 539 19- 28- 509	++ 35- 400 37- 49- 318 50- 293 47- 077 55- 050 55-		318	08590	50-
	02 784++	011 000 808	978 08 06 905 05 01 882 03 01 851 ++ 00 822 01 11- 801 ++ 06- 730 07- 09- 717 06- 09- 664 09- 14- 389	40- 46- 360 45- 335 47- 108 53-		335	08260	47-
VALENTIA 03953	02 12502	005 003 770	003 09 07 982 11 09 895 04 01 834 01 05- 813 01 07- 751 02- 16- 682 07- 17- 600 14- 19- 395 36- 41- 281	56- 226 51- 239 47- 126 48- 116 52- 085 52-		280 120	09500 15200	56- 52-
	01 325++	011 009 844	844 00 04- 628 13- 22- 614 12- 23- 355 39- 49- 248 51- 212 53- 192 50- 167 50- 159 52- 104 53- 054 58-			212	11400	53-
Ocean Weather Station 'I' 59°00'N 19°00'W	03 645++	995 995 861	940 05 05 890 03 01 798 06- 09- 782 04- 07- 722 08- 14- 648 ++ 17- 578 19- 24- 403 40- 44- 337 51- 304	51- 249 46- 150 47- 095 51- 040 49-		337	08000	51-
	15 784++	996 996 875	937 03 02 820 03- 03- 794 ++ 06- 705 11- 13- 672 ++ 14- 625 ++ 21- 596 19- 23- 528 ++ 34- 482 30- 34- 449	33- 40- 434 ++ 43- 405 39- 45- 363 42- 333 43- 306 46- 193 43- 090 51-		306	08700	46-
Ocean Weather Station 'J' 52°30'N 20°00'W		006 006 870	826 04- 04- 625 14- 26- 516 22- 34- 413 32- 44- 292 48- 272 47- 248 50- 216 47- 038 46-			292	09200	48-
	61 7732+	000 000 840	948 05 04 834 00 02- 705 05- 07- 585 13- 16- 450 25- 30- 371 34- 40- 279 51- 239 53- 175 51- 113 45-			239	10500	53-

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	°C °C	m	°C °C	m	°C °C	m	°C °C				
051200	53.5°N 25.3°W	989	982	817	061	07 05	085-	06 06	777	03 03	1237	02 02	1728	01- 01-	02- 02-	2789	05- 05-	08- ++	3987	13- ++	18- ++	5346	23- ++
Cloud :— 8/8 Ns. 800 to 13000 ft. 4/8 Ac H.N.G. to 19000 ft.																							
Inversion Levels :— Isothermal Levels :— 950 to 937mb 06°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	°C °C	m	°C °C	m	°C °C	m	°C °C				
051308	57.3°N 23.3°N	992	985	900	061	07 00	064-	04 02	792	00 ++	1247	03- ++	1728	04- ++	06- ++	2771	09- 13-	14- 17-	3944	16- 24-	23- ++	5282	27- ++
Cloud :— 3/8 Cu 2500 ft to T.N.G. 8/8 Ns 5000 to 15000 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	352mb 210 37 17400m 230 08 074mb 240 09 19500m 260 08	220 63 09050m
STORNOWAY 03026	P20300m 230 06 08830/1 073mb 220 08 19000m 200 08	
SHANWELL 03170	127mb 220 21	
ALDERGROVE 03917	342mb 220 19 19460m 230 04 P22800m 110 03 06120m 290 37 17600m 210 07 06120/3 10000/1 11400/5	300 68 08820m
AUGHTON 03322	073mb 220 07 117mb 250 19 22200m 320 05 07970/2	
HEMSBY 03496	175mb 230 14 06570/0 09640/1 07960m 240 51 17110m 260 15	230 93 10440m 230 98 08150m 240 73 08780m 230 68 08780m
CRAWLEY 03774	212mb 230 60 157mb 230 42 06300m 230 60 05830/0 06800/0 10180/1 10580/1 07800m 230 86 22800m 180 11 06970/0 07240/0 07720/0 09450/1 10500/0 07670/0	230 113 09680m 230 98 09380m 230 109 09040m
CAMBORNE 03808	054mb 240 06 20100m 240 13 118mb 260 19 05650m 290 31 05650/2 11250/1	
VALENTIA 03953	00300m 340 10 00600m 340 10 17400m 260 10 614mb 280 23 355mb 310 63 248mb 300 48 159mb 290 23 054mb 300 09	310 68 08640m
Ocean Weather Station 'I' 59°00'N 19°00'W	892mb 290 21 891mb 230 19 343mb 230 32 229mb 240 31 03900m 170 24 21900m 240 05 04070/3 08980/1	210 66 08340m
Ocean Weather Station 'J' 52°30'N 20°00'W	625mb 270 26 929mb 320 88 272mb 320 70 248mb 320 59 00300m 230 16 00600m 250 16 948mb 210 41 585mb 240 42 450mb 270 68 371mb 270 64 00300m 220 40 00600m 220 59	320 92 09000m 270 70 05950m
LARKHILL 03743	11400m 230 53	230 82 09300m

NOTES ON THE AEROLOGICAL SITUATION

The almost stationary low to the northwest of the British Isles is now filling and the trough extending southwards to the west coast of Portugal is also filling and accelerating eastwards. This development is a consequence of the rapid eastward movement of the low over the western Atlantic and the extension forward of the associated jet on its southern flank. An upstream trough over eastern Canada is moving more slowly east.

AVERAGE AND EXTREME VALUES 1951-55

MAY

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	22145	-50.1	-46	-55	...	(10)
60	19500	-50.3	-43	-60	102	2 11
100	16180	-51.4	-44	-62	283	3 13
150	13540	-51.0	-42	-62	288	7 19
200	11680	-53.8	-39	-69	288	10 27
300	9070	-48.8	-37	-56	281	11 36
400	7125	-35.0	-27	-49	282	10 32
500	5530	-23.2	-15	-38	283	8 26
700	2985	-7.0	1	-20	289	4 20
850	1450	0.9	11	-10	310	2 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9 11
60	19480	-52.8	-46	-62	69	1 10
100	16195	-53.8	-44	-61	284	5 14
150	13590	-53.3	-46	-65	284	10 22
200	11750	-55.3	-42	-67	282	15 34
300	9140	-47.7	-38	-56	274	15 45
400	7180	-33.4	-23	-48	270	13 38
500	5580	-21.4	-11	-34	267	11 31
700	3015	-5.3	6	-16	258	7 23
850	1470	3.0	15	-6	254	5 20

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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	...	...	...	...	180	2 8
60	19500	-59.3	-57	-66	270	6 10
100	16315	-60.2	-51	-67	270	24 26
150	13775	-59.1	-49	-71	275	40 43
200	11970	-58.9	-48	-67	275	48 53
300	9355	-43.8	-39	-49	275	42 50
400	7365	-28.2	-23	-38	275	34 40
500	5720	-16.0	-12	-28	275	27 32
700	3095	2.2	9	-9	275	16 23
850	1500	12.2	24	2	275	9 16

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	117	-65.1	...	80	...	-71
Lower	199	-60.9	365	...	-41	...

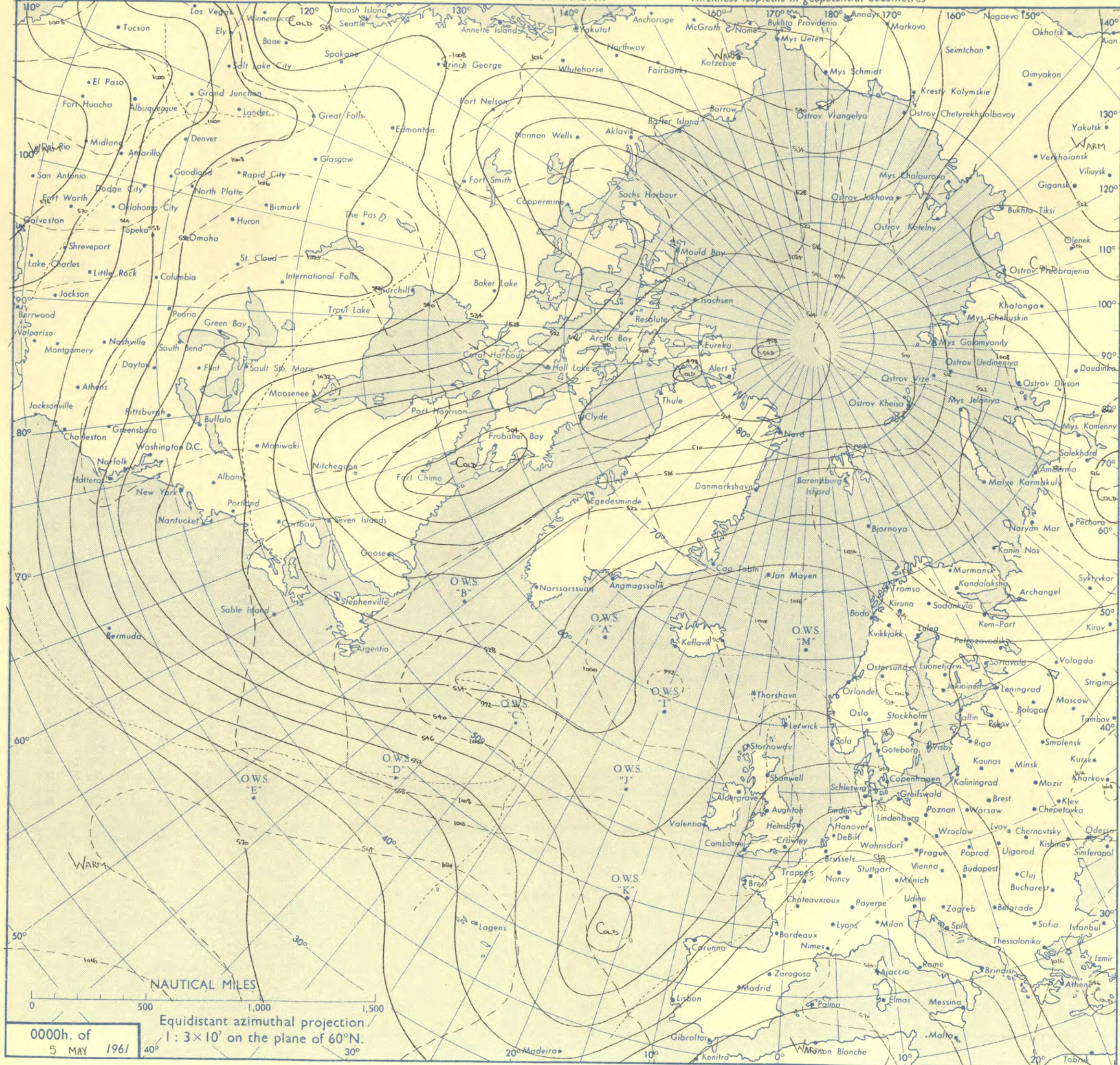
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† 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



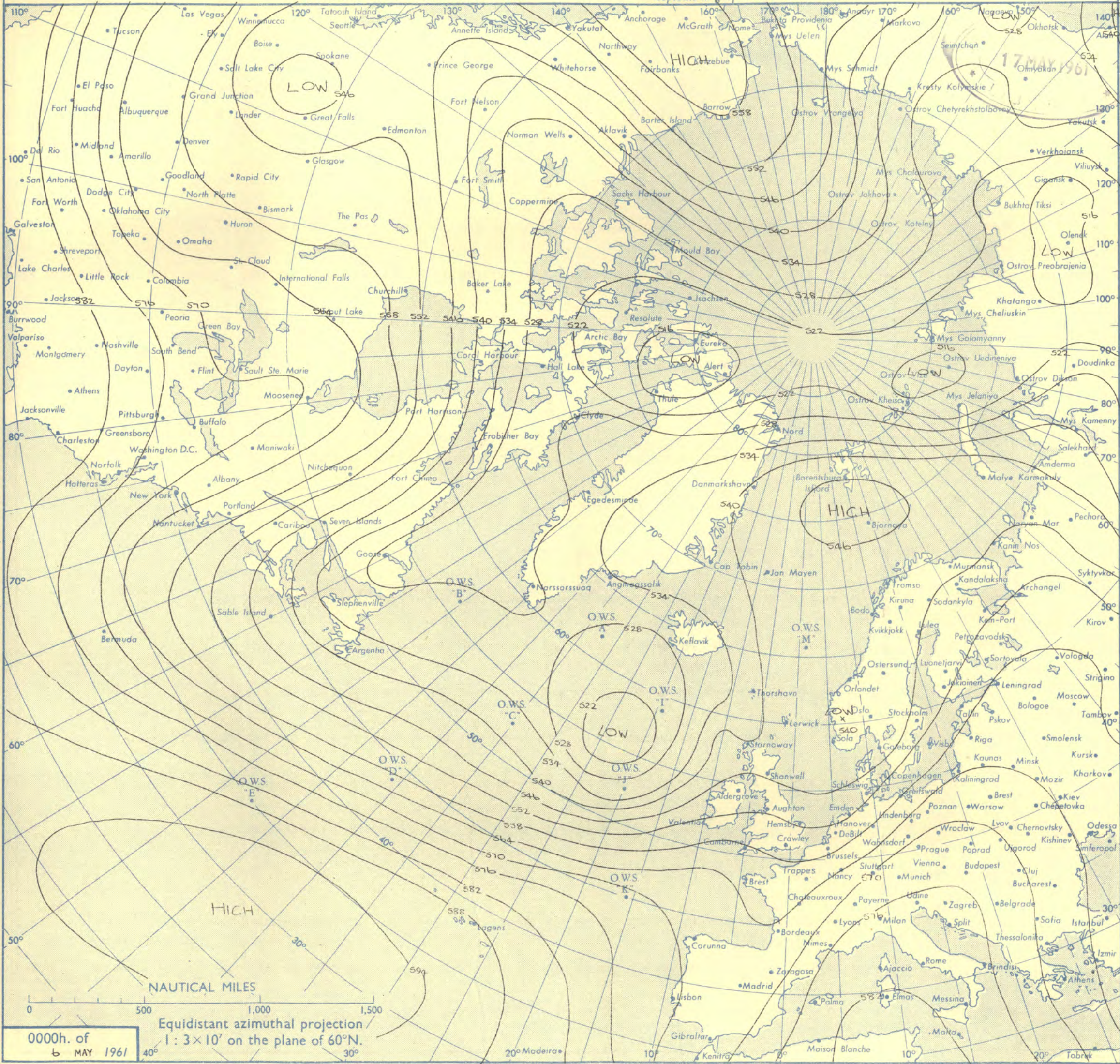
NAUTICAL MILES

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

0000h. of
5 MAY 1961

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 MAY 1961

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

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	61 856++	001 991 829	972 08 06 962 ++ 04 925 ++ 03 593 15- 16- 582 ++ 17- 546 ++ 27- 530 20- 30- 367 40- 46- 281 54- 244 47- 165 47- 100 50-	979 08 05 948 ++ 01 860 00 07- 851 01 07- 708 07- 22- 599 13- 29- 488 23- 40- 453 28- 42- 436 29- 43- 387 37- 50- 291 52- 155 48- 100 51- 034 54-	281 09380 54-			
	02 12401	000 990 828			291 09150 52-			
STORNOWAY 03026	01 15600	004 002 859	978 06 04 965 07 05 941 04 03 928 04 02 767 05- 11- 695 ++ 22- 531 ++ 36- 462 27- 38- 364 40- 48- 289 51- 170 47- 108 51-		289 09200 51-			
	63 3747+	993 991 842	991 09 07 976 07 05 822 01- 04- 728 05- 08- 527 19- 24- 360 40- 46- 303 51- 288 52- 246 51- 223 46- 083 53- 068 53-		288 09160 52-			
SHANWELL 03170	01 00900	007 006 846	989 09 05 898 ++ 02- 788 04- 09- 737 05- 13- 668 ++ 21- 568 20- 31- 495 24- 36- 476 24- 37- 356 40- 50- 324 45- 263 50- 175 47- 100 52- 050 53-		263 09860 50-			
	61 574++	000 999 831	989 09 06 899 03 02 831 00 01- 701 05- 07- 489 20- 25- 341 40- 46- 301 48- 256 54- 214 48- 163 46- 127 49- 112 47- 100 50- 092 52- 030 52- Pressure doubtful above 100mb.	256 10080 54- 092 16810 52-				
ALDERGROVE 03917	01 25500	008 998 827	988 09 05 882 ++ 04- 873 ++ 06- 816 01- 08- 745 ++ 17- 722 03- 15- 662 08- 13- 633 09- 12- 431 27- 31- 342 ++ 43- 287 49- 265 52- 222 53- 204 48- 092 52-		265 09900 52-			
	80 794++	998 989 837	974 10 04 930 ++ 01 880 ++ 00 830 00 03- 752 ++ 15- 673 11- 24- 623 13- 28- 607 13- 30- 510 24- 41- 388 37- ++ 320 46- 190 43- 157 48- 128 47- 110 51- 069 54- 030 54-	320 08500 46- 157 13270 48- 110 15610 51-				
AUGHTON 03322	02 00900	011 004 840	990 09 07 926 07 02 811 02- 05- 773 03- 12- 741 ++ 18- 637 09- 21- 584 15- 23- 569 15- 24- 460 25- 31- 351 40- 44- 264 52- 219 51- 209 53- 166 49- 141 53- 100 53-		264 09920 52- 141 14010 53-			
	63 875++	006 999 823	878 03 01 665 08- 10- 638 10- 14- 625 10- 14- 350 40- 45- 330 44- 266 50- 190 47- 110 51- 082 51-		267 09820 50-			
HEMSBY 03496	02 00900	012 010 796	003 13 07 942 ++ 02 900 05 02 833 01 03- 810 01 12- 760 01- 16- 738 ++ 10- 700 07- 11- 642 ++ 14- 622 13- 17- 595 15- 19- 542 21- 25- 531 ++ 29- 470 29- 40- 428 32- 45- 443 32- 46- 381 35- 49- 319 42- 244 48- 090 53-		244 10420 48-			
	03 21506	012 010 782	983 11 03 905 ++ 01 876 03 03- 858 04 09- 711 03- 21- 666 05- 22- 615 ++ 27- 562 16- 24- 536 17- 22- 463 ++ 27- 340 40- 44- 248 54- 132 51-		248 10380 54-			
CRAWLEY 03774	02 645++	014 997 818	993 ++ 06 958 10 03 842 ++ 01 832 01 00 700 07- 13- 686 ++ 17- 658 08- 21- 509 21- 37- 450 24- 40- 383 34- 48- 293 47- 238 55- 212 55- 188 51- 166 55- 090 55-		238 10620 55- 166 12980 55-			
	03 6857+	015 998 869 811	984 09 04 938 ++ 02 866 00 02- 847 01 04- 760 ++ 15- 691 05- 19- 604 12- 23- 591 11- 21- 529 ++ 22- 402 31- 35- 341 ++ 45- 259 54- 117 54- 098 56-		259 10100 54-			
CAMBORNE 03808	02 10972	016 005 807	985 09 07 898 03 02- 880 02 02- 825 01 10- 800 ++ 11- 779 01- 16- 757 00 18- 703 04- 24- 674 04- 24- 613 ++ 27- 540 15- 25- 486 21- 25- 462 ++ 31- 443 ++ 32- 446 29- 33- 375 ++ 37- 335 40- 46- 272 50- 205 59- 190 55- 178 57- 163 54- 126 54-		205 11640 59-			
	63 7722+	011 001 760	960 08 06 708 03- 05- 650 ++ 11- 638 ++ 18- 622 ++ 17- 608 ++ 23- 571 ++ 32- 492 21- 41- 426 26- 45- 390 32- 49- 344 39- 268 50- 219 49- 173 56- 146 52- 133 55- 101 54- 035 55-	268 09910 50- 173 12740 56-				
VALENTIA 03953	63 864++	007 006 762	980 11 09 898 04 01 824 01 03- 762 00 05- 597 10- 14- 359 36- 43- 296 46- 246 53- 202 53-174 57- 136 53- 106 53- 080 57-		246 10500 53-			
	25 48500	006 004 850	909 02 03- 781 04- 07- 658 12- 31- 622 12- 35- 528 20- 45- 484 24- 48- 407 34- 50- 395 34- 50- 273 46- 235 47- 182 45- 164 49- 135 52- 130 48- 092 52-	273 09700 46- 164 13000 49-				
Ocean Weather Station 'I' 59°00'N 19°00'W	61 863++	980 980 838	880 02 02 771 02- 02- 566 17- 19- 390 38- 41- 300 49- 245 45- 190 47-		300 08780 49-			
	03 32540	975 975 857	914 04 03 894 ++ 02 803 03- 05- 746 ++ 16- 738 07- 17- 595 21- 28- 523 29- 36- 486 32- 40- 455 31- 40- 440 36- 46- 318 41- 200 42- 135 46- 120 45- 097 50- 076 51-		318 08300 41-			
Ocean Weather Station 'J' 52°30'N 20°00'W	02 69460	991 991 850	838 01- 05- 698 09- 16- 552 22- 28- 465 26- 39- 422 30- 43- 372 34- 47- 352 35- 277 37- 164 46- 060 54-		300 08880 39-			
	01 49460	001 001 890	870 02- 05- 840 03- 07- 672 14- 30- 625 15- 33- 515 25- 44- 418 36- 49- 275 48- 196 43- 144 49- 065 53- 045 49-	275 10400 48-				

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	052330	T	280 10	+++ ++	320 12	310 13	320 18	330 16	290 12	250 06	150 16	140 25	260 15	260 15	260 14						
	060530	P	280 20	+++ ++	280 14	270 10	260 08	260 08	280 10	250 09	220 10	310 12	280 18	260 16	250 14	240 10	170 04	000 00	070 05	080 15	
	061130	T	180 15	+++ ++	180 15	190 15	190 15	190 15	190 15	280 15	300 23	280 23	260 16	220 17	230 14	220 14	260 06	200 06			
	061742	P	150 20	+++ ++	180 26	180 23	190 24	190 23	180 22	170 21	150 19	180 27	180 25	210 17	220 16	200 07	220 06				
STORNOWAY 03026	052330	T	200 09	+++ ++	220 18	220 20	210 18	220 17	250 23	290 31	290 45	290 43	270 39	250 22	230 16						
	060530	P	160 17	+++ ++	180 36	190 36	190 30	200 32	210 25	200 23	210 25	230 32	220 30	220 26	220 20	230 11	220 10				
	061130	T	160 20	+++ ++	180 47	190 49	190 29	190 33	180 33	170 34	160 45	160 56	180 37	190 29	210 24	220 13					
	061735	P	200 24	+++ ++	220 35	220 32	220 34	220 28	210 23	190 22	160 37	170 26	200 20	210 30	220 23	230 14					
SHANWELL 03170	052345	T	230 06	+++ ++	270 18	260 22	250 21	260 18	260 24	280 31	300 57	300 51	300 44	270 33	250 18	220 16	220 07				
	060530	P	000 00	+++ ++	220 23	230 31	230 30	230 28	240 30	250 26	270 25	260 45	260 35	250 30	240 17	260 21					
	061140	T	190 07	+++ ++	210 38	210 42	220 37	220 35	200 36	190 38	190 41	190 46	200 49	220 30	230 24	240 17	P240 09	200 06	210 05	220 04	
	061730	P	260 20	+++ ++	240 34	250 39	250 39	240 39	230 41	220 51	200 63	210 46	220 37	230 25	240 26	250 20	240 08	230 08			
ALDERGROVE 03917	052330	T	190 10	+++ ++	220 22	220 24	230 27	240 25	250 34	260 35	270 40	270 53	270 46	270 34	250 23	240 19					
	060540	P	170 20	+++ ++	210 45	220 45	230 42	230 46	220 39	220 50	210 45	210 40	220 54	210 36	240 27	240 18	230 10				
	061205	P	240 23	+++ ++	240 35	240 38	240 39	240 46	220 57	220 66	210 63	210 58	230 45	250 36	230 28						
	061730	P	230 22	+++ ++	250 40	250 37	250 43	240 45	230 50	240 54	250 68	250 58	260 56	250 37	260 36						
AUGHTON 03322	052330	T	160 05	+++ ++	250 16	250 16	250 20	260 22	300 27	300 38	300 49	300 58	290 46	280 33	260 23						
	060530	P	120 10	+++ ++	230 27	230 25	220 23	220 29	250 38	240 33	250 49	250 48	260 46	260 38	250 26	250 17	240 10				
	061130	T	150 14	+++ ++	210 38	220 50	240 45	250 41	240 50	220 48	210 44	220 58	220 57	240 45	240 33	240 17					
	061730	P	230 14	+++ ++	240 22	250 28	260 33	260 39	250 47	250 51	250 55	250 60	260 50	250 42	260 40	250 23	250 10	250 08			
HEMSBY 03496	052330	T	240 03	+++ ++	280 17	270 20	260 24	250 25	250 28	240 26	270 34	280 34	270 43	260 41	270 30	230 16					
	060530	P	210 07	+++ ++	230 16	230 17	240 20	260 22	300 30	290 31	280 37	280 48	280 49	270 32	260 25	260 22	250 08				
	061130	T	220 15	+++ ++	230 23	230 24	240 30	240 32	230 41	240 42	240 42	250 48	240 47	250 39	250 27						
	061730	P	210 16	+++ ++	230 37	250 34	250 30	260 35	250 37	250 45	240 50	250 53	260 48	250 50	260 30	260 23	270 16				
CRAWLEY 03774	052330	T	270 05	+++ ++	260 15	260 16	260 23	260 26	260 28	280 32	320 44	320 39	290 33	270 33	270 25	240 15					
	060530	P	000 00	+++ ++	240 19	240 18	240 24	240 22	280 21	270 29	260 29	290 42	290 46	280 40	260 28	250 21	270 09				
	061110	P	240 18	+++ ++	230 27	230 31	240 32	250 32	230 38	240 41	240 48	250 49	250 52	260 48	260 31	260 19	240 13	260 04			
	061730	P	230 20	+++ ++	230 41	250 37	250 37	250 51	250 50	270 46	270 82	290 98	280 96	270 58	270 38						
CAMBORNE 03808	052330	T	190 05	+++ ++	250 15	240 13	250 17	260 16	270 26	270 31	280 36	300 43	300 46	290 44	270 25						
	060530	P	190 17	+++ ++	220 35	230 30	250 30	230 29	250 39	250 40	250 46	260 53	270 57	260 46	270 28	270 21					
	061130	T	210 20	+++ ++	230 46	260 50	250 37	250 41	250 46	260 46	270 82	290109	280 84	270 44	260 47						
	061730	P	260 22	+++ ++	260 25	260 31	260 32	260 44	260 53	270 75	280100	270112	280124	270 97							
VALENTIA 03953	060001	T	180 20	+++ ++	200 45	210 45	230 43	240 42	240 38	240 43	240 44	250 61	250 63								
	061200	T	240 20	240 21	+++ ++	250 45	+++ ++	260 49	+++ ++	260 69	260 80	270108	+++ ++	270 89							
Ocean Weather Station 'I' 59°00'N 19°00'W	060001	T	100 33	+++ ++	+++ ++	120 45	160 33	140 22	130 29	160 29	180 51	180 25	190 33	220 40							
	060600	P	225 20	+++ ++	190 25	190 22	170 18	140 21	140 37	110 44	120 30	110 28	130 13	140 07	140 11						
	061200	P	130 22	+++ ++	+++ ++	120 23	130 27	130 26	090 24	120 22	060 33	100 14	+++ ++	210 09	220 11	220 10					
	061800	P	360 10	+++ ++	020 12	010 12	010 13	020 17	030 14	040 12	350 06	330 09	250 05	220 09	270 16	240 14					
Ocean Weather Station 'J' 52°30'N 20°00'W	052300	T	260 38	+++ ++	+++ ++	260 60	+++ ++	250 56	+++ ++	240 87											
	060600	P	270 40	+++ ++	280 50	280 59	270 54	270 60	270 65	270 88											
	061100	T	260 35	260 36	+++ ++	270 51	+++ ++	280 59	+++ ++	270 75											
	061800	P	270 30	+++ ++	270 42	280 44	280 38	280 46	280 52	280 52	280 56										
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
061353	49.9°N 28.1°W	012	005	907	061 07 02	097	04 01	954 01- 03-	1405 05- 06-	1881 07- 12-	09- 18-	2911 12- 35-	15- 35-	4075 18- 35-	23- 35-	5410 27- 40-
Cloud :— 1/8cu. 2000 to 10000ft; 2/8cu. 3000 to 6000ft; 2/8sc. at 6000ft.																
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 :—						
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	112mb 240 13 08700/2 037mb 200 03 19800m 230 08	
STORNOWAY 03026	120mb 220 15 20300m 220 09 075mb 230 18 16300m 240 14 12350/1	
SHANWELL 03170	151mb 300 52 054mb 230 05 17450m 170 05 P28800m 070 09 22500m 310 04	300 69 07830m 210 69 06220m
ALDERGROVE 03917	19800m 170 05 15500m 260 13 04100/0 08350/1 09280/1 05190/0 05660/0 07020/1	210 81 06000m 250 78 06760m
AUGHTON 03322	107mb 250 16 07940m 240 39 12860/1	300 61 08840m 210 64 09590m 260 65 07750m
HEMSBY 03496	20100m 250 05	
CRAWLEY 03774	20400m 180 03 03380/2 22500m 090 02 09140/0 12090/1 12950/1 06140/0 08490/0 10480/1 13620/1	290 110 09500m
CAMBORNE 03808	136mb 260 17 18200m 260 15 13040m 270 61 13800m 280 34 04910/0 09820/0 11950/1 13040/1 13410/1	280 110 09300m 280 126 10860m
VALENTIA 03953	00300m 190 39 00600m 190 42 11700m 260 48 909mb 250 45 781mb 250 40 622mb 260 64 273mb 270 93 235mb 270 90	250 65 10210m 280 110 08640m
Ocean Weather Station 'I' 59°00'N 19°00'W	878mb 110 48 872mb 120 25 452mb 090 22 328mb 080 14 080mb 260 13 16200m 240 14 06880/5 10450/5	
Ocean Weather Station 'J' 52°30'N 20°00'W	838mb 260 58 552mb 240 82 465mb 230 81 422mb 230 75 00300m 280 42 00600m 280 46 06000m 270 99 870mb 270 56 672mb 280 58 625mb 270 64 418mb 270 84 00300m 270 32 00600m 270 34 04500/1 06100/0	230 88 05200m 270 100 06150m 280 72 06670m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The major feature over the Atlantic is now the low which has moved quickly east from Canada and is now west of the British Isles. The ridge and trough immediately downstream are now very weak systems but the next downstream ridge which has moved over eastern Europe has intensified somewhat. The strong ridge over eastern North America is intensifying a little as it moves east.

AVERAGE AND EXTREME VALUES 1951-55

MAY

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	22145	-50.1	-46	-55	...	(10)
60	19500	-50.3	-43	-60	102	2 11
100	16180	-51.4	-44	-62	283	3 13
150	13540	-51.0	-42	-62	288	7 19
200	11680	-53.8	-39	-69	288	10 27
300	9070	-48.8	-37	-56	281	11 36
400	7125	-35.0	-27	-49	282	10 32
500	5530	-23.2	-15	-38	283	8 26
700	2985	-7.0	1	-20	289	4 20
850	1450	0.9	11	-10	310	2 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9 11
60	19480	-52.8	-46	-62	69	1 10
100	16195	-53.8	-44	-61	284	5 14
150	13590	-53.3	-46	-65	284	10 22
200	11750	-55.3	-42	-67	282	15 34
300	9140	-47.7	-38	-56	274	15 45
400	7180	-33.4	-23	-48	270	13 38
500	5580	-21.4	-11	-34	267	11 31
700	3015	-5.3	6	-16	258	7 23
850	1470	3.0	15	-6	254	5 20

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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

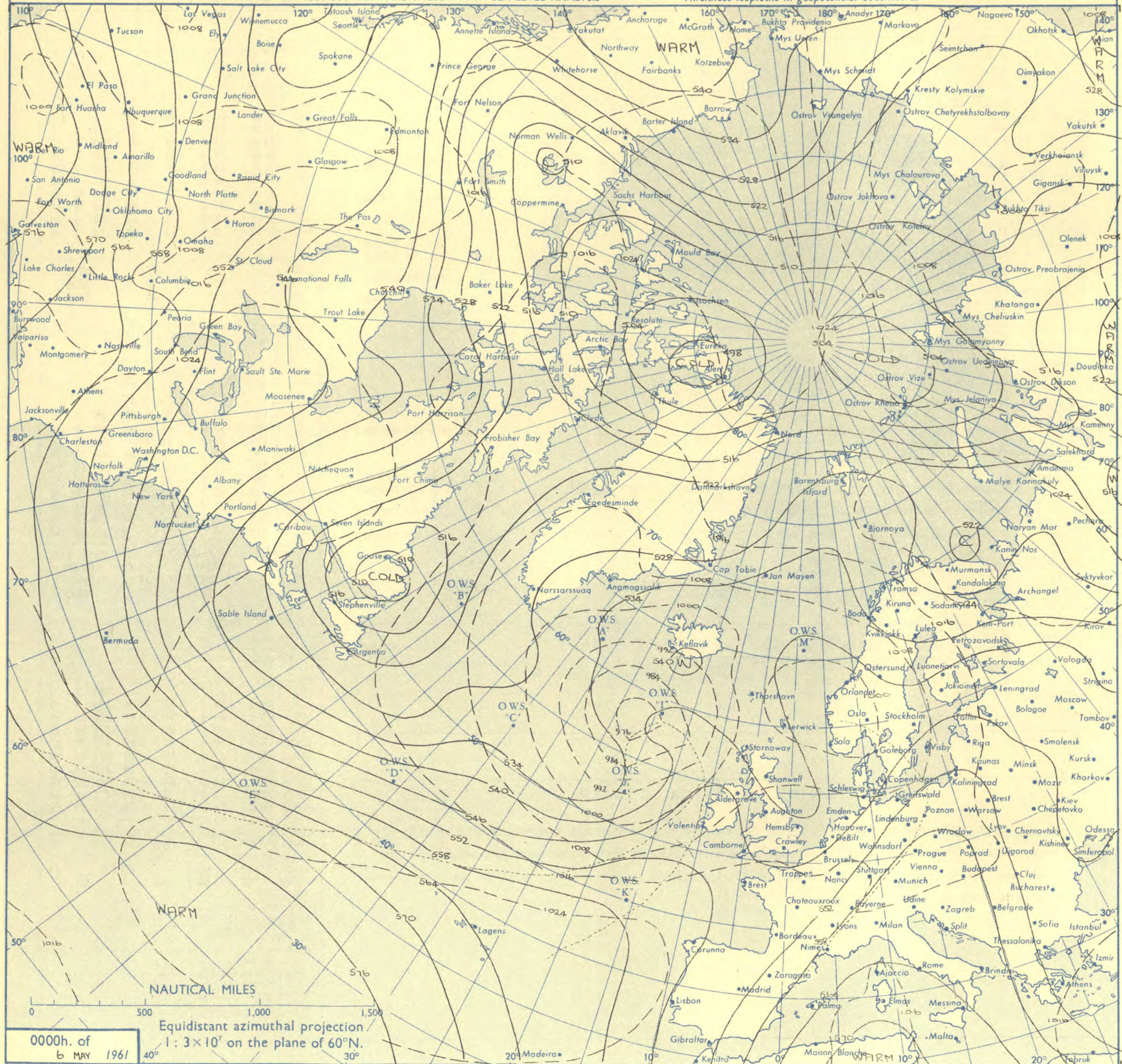
Press. Level	Average Height	Average Temp.	Extreme Temp. Max.	Extreme Temp. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	...	...	...	...	180	2 8
60	19500	-59.3	-57	-66	270	6 10
100	16315	-60.2	-51	-67	270	24 26
150	13775	-59.1	-49	-71	275	40 43
200	11970	-58.9	-48	-67	275	48 53
300	9355	-43.8	-39	-49	275	42 50
400	7365	-28.2	-23	-38	275	34 40
500	5720	-16.0	-12	-28	275	27 32
700	3095	2.2	9	-9	275	16 23
850	1500	12.2	24	2	275	9 16

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb. 117	-65.1	mb. ...	80	...	-71
Lower	199	-60.9	365	...	-41	...

* 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.

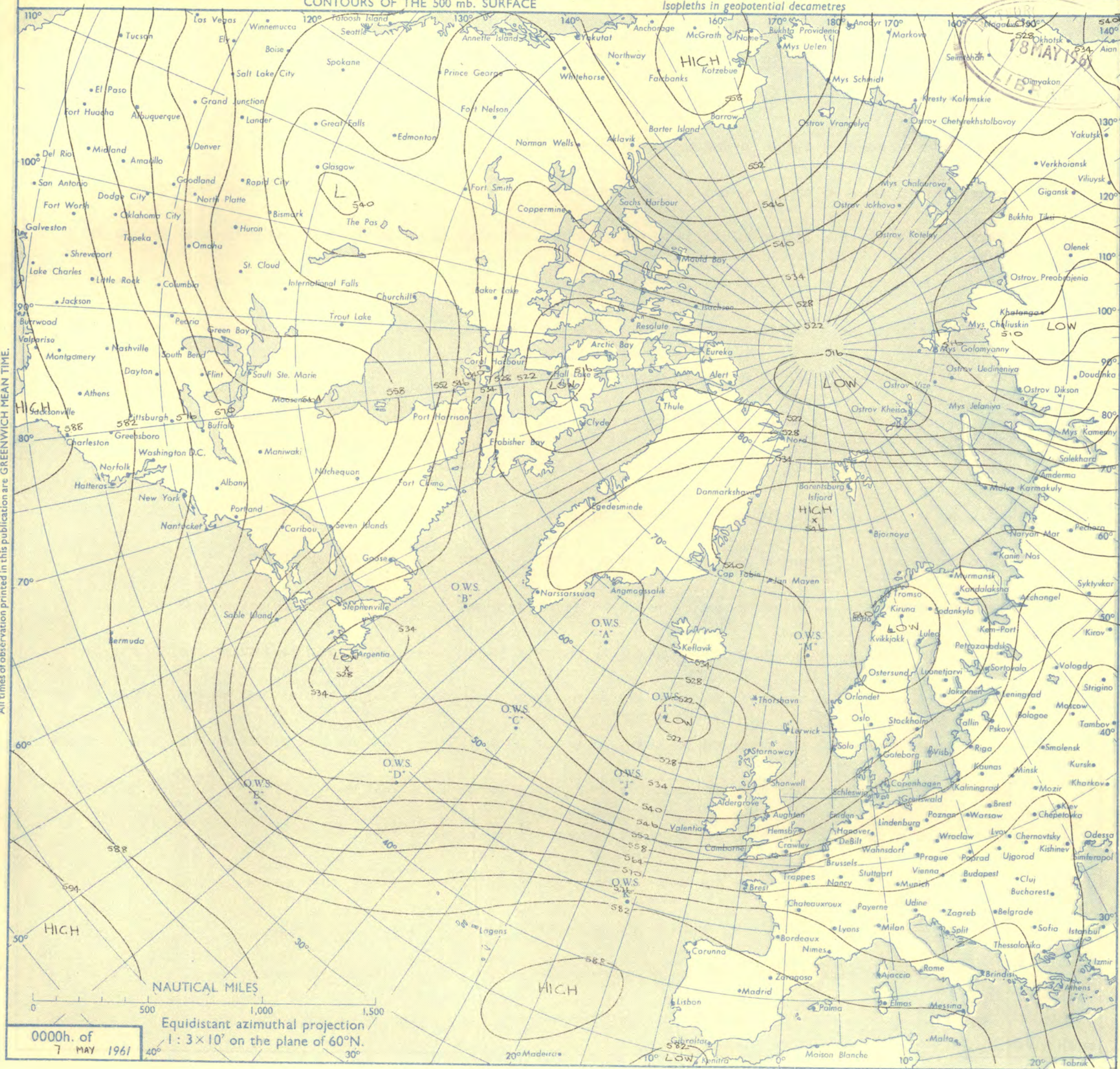
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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

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

HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

7 May, 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	062332	082	07	05	014	++	++	1280	00	04	2805	10	16	5318	24	35	6908	37	48	8834	48	++	11534	44	13450	47	16121	49	18144	52										
	071130	082	12	05	022	++	++	1308	00	03	2836	09	14	5346	29	36	6901	42	++	8830	47	++	11554	43	13486	45														
STORNOWAY 03026	062338	013	09	07	056	++	++	1270	00	01	2796	10	14	5297	29	32	6852	42	++	8790	44	++	11531	42																
	071210	013	10	07	036	++	++	1285	01	03	2803	11	16	5302	28	31	6863	40	43	8771	49	++	11503	41	13441	43	16142	46	18497	49	20696	51								
SHANWELL 03170	062330	005	07	04	000	++	++	1322	01	03	2843	10	14	5344	30	38	6904	39	47	8839	43	++	11584	42	13515	46	16195	50	18512	52	20970	52								
	071130	005	10	05	021	09	04	1338	02	03	2851	12	15	5338	30	35	6889	41	++	8816	46	++	11562	41	13505	44	16208	47	18542	51	20719	54	24022	52						
ALDERGROVE 03917	062345	077	08	05	021	++	++	1341	01	03	2860	11	16	5358	27	39	6932	38	49	8857	44	++	11609	39	13551	46	16226	49	18545	51	20725	52								
	071130	077	10	05	053	++	++	1373	02	04	2882	13	21	5368	29	36	6934	39	48	8872	42	++	11614	41	13556	45	16230	48	18551	50	20721	54	24003	53						
AUGHTON 03322	062330	056	10	06	062	09	05	1387	00	03	2910	11	14	5411	29	35	6975	40	44	8924	42	++	11642	46	13535	50	16176	53	18468	54										
	071130	056	12	05	091	12	06	1411	02	06	2918	13	16	5402	28	38	6972	39	49	8892	44	++	11606	47	13507	49	16159	53	18440	54	20592	54								
HEMSBY 03496	062330	012	10	07	083	10	07	1416	02	04	2956	07	26	5505	21	26	7110	34	38	9060	47	++	11730	47	13635	50														
	071130	012	14	04	102	12	02	1433	00	03	2956	10	22	5483	24	42	7067	38	++	9001	46	++	11694	47	13585	51	16222	55												
CRAWLEY 03774	062330	144	09	09	117	++	++	1448	01	03	2993	05	20	5560	20	27	7178	30	35	9172	45	++	11806	55	13673	52	16285	55	18565	55										
	071200	144	14	04	140	++	++	1475	00	03	2998	08	21	5537	24	39	7137	32	46	9116	44	++	11787	50	13657	52	16282	54	18459	55	20700	55								
CAMBORNE 03808	062330	088	10	08	127	10	08	1457	01	00	2989	05	28	5567	16	35	7217	27	34	9222	43	++	11860	54	13733	51	16351	56	18626	56	20768	55	24058	52						
	071130	088	12	09	165	11	07	1487	02	04	3019	06	22	5574	20	42	7190	32	39	9178	44	++	11821	54	13684	52	16291	55	18543	55	20684	55	23975	53						
VALENTIA 03953	062335	014	09	06	082	09	06	1402	01	05	2918	11	21	5420	27	35	7000	35	46	8980	42	++	11690	45																
	071230	014	13	07	133	10	04	1454	00	03	2981	08	25	5520	24	42	7120	32	50	9110	42	++	11790	49																
Ocean Weather Station 'I' 59°00'N 19°00'W	070000		09	06	140	++	++	1187	00	02	2709	11	16	5200	30	33	6730	39	45	8700	41	++	11450	43	13390	45	16090	47	18430	50										
	071200		10	05	073	++	++	1249	02	03	2763	11	15	5260	30	36	6820	39	45	8750	45	++	11480	44																
Ocean Weather Station 'J' 52°30'N 20°00'W	062300		09	05	061	09	04	1376	03	06	2886	11	28	5400	25	47	6970	38	++	8920	45	++	11630	44	13540	48	16180	53												
	071100		10	05	114	08	04	1425	04	09	2942	09	24	5470	24	41	7070	32	++	9040	46	++	11700	50	13600	47	16270	50												

STATION	ww N _H C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 25602	995 985 850	971 08 05 885 ++ 04- 852 ++ 04- 722 ++ 17- 650 ++ 19- 590 20- 29- 490 24- 35- 385 39- 50- 333 48- 310	50- 226 43- 162 47- 139 46- 114 50- 100 49- 055 52- Pressure suspect above 100mb		310 08610 50- 114 15270 50-		
	01 12430	997 987 845	977 09 03 789 04- 06- 721 07- 12- 652 ++ 17- 625 ++ 22- 615 16- 23- 413 40- 46- 398 42- 387 41- 303 48-	236 42- 136 44-		303 08770 48-		
STORNOWAY 03026	03 48402	993 992 850	770 05- 06- 739 ++ 11- 687 ++ 16- 612 ++ 21- 411 40- 43- 371 45- 301 44- 264 40- 160 44-			371 07340 45-		
	25 785++	996 994 868	975 07 03 832 03- 04- 808 03- 07- 761 07- 08- 739 ++ 13- 710 ++ 15- 655 ++ 16- 600 ++ 21- 575 ++ 24-	549 ++ 25- 402 40- 13- 346 49- 289 49- 238 41- 148 43- 121 47- 040 52-		346 07820 49-		
SHANWELL 03170	02 00900	000 999 862	997 ++ 02 953 ++ 03 936 06- 01 843 02- 03- 798 04- 05- 754 06- 10- 678 ++ 16- 626 ++ 19- 610 17- 24- 542	24- 33- 437 36- 44- 387 40- 48- 343 45- 315 47- 298 43- 261 41- 151 46- 136 44- 120 49- 093 50- 079 53- 048		315 08510 47- 120 15000 49- 079 17740 53-		
	80 634++	002 002 885	990 08 03 883 00 02- 631 16- 19- 568 ++ 29- 548 ++ 30- 491 31- 36- 409 40- 46- 340 46- 300 46- 278 42-	214 41- 100 47- 081 51- 043 54- 030 52-		340 07980 46- 081 17600 51-		
ALDERGROVE 03917	25 25600	003 993 858	952 ++ 03 923 ++ 01 846 ++ 03- 729 09- 14- 670 ++ 19- 605 20- 21- 577 20- 29- 538 ++ 36- 420 ++ 48- 382	++ 49- 326 48- 313 45- 196 39- 132 48- 096 49- 076 54- 072 51- 045 52-		326 08310 48- 132 14410 48- 076 18010 54-		
	80 794++	006 997 880	976 08 03 897 ++ 02- 820 05- 07- 756 09- 13- 746 ++ 13- 723 11- 15- 702 ++ 21- 676 ++ 17- 665 14- 20- 615	++ 24- 537 26- 31- 518 28- 35- 458 32- 41- 395 ++ 48- 360 46- 195 40- 120 50- 103 47- 078 54- 070 50- 062		360 07630 46- 120 15030 50- 078 17830 54-		
AUGHTON 03322	02 6095+	008 001 854	890 ++ 03- 820 ++ 04- 766 06- 10- 736 07- 11- 671 14- 16- 653 14- 18- 631 ++ 21- 552 22- 30- 498 29- 35-	398 40- 44- 370 42- 288 42- 151 50- 115 51- 105 54- 091 52- 075 56- 060 54-		370 07500 42- 249 10170 45- (075 18030 56e)		
	02 42560	011 004 883	947 05 01 922 03 00 803 06- 09- 721 12- 16- 669 16- 19- 643 ++ 20- 626 ++ 27- 445 33- 43- 395 40- 50- 373	44- 334 48- 287 43- 155 49- 128 46- 110 53- 055 56- 050 54-		334 08160 48- 110 15540 53-		
HEMSBY 03496	02 785++	010 008 808	903 ++ 03 848 02 04- 833 02 09- 789 01- 17- 589 14- 36- 513 23- 30- 502 21- 26- 484 ++ 26- 362 40- 43-	336 44- 261 50- 184 46- 151 50- 135 51-		261 09980 50- (151 13600 50-)		
	03 32500	012 011 854	993 11 01 840 01- 04- 784 ++ 08- 769 ++ 13- 732 08- 19- 592 16- 34- 526 22- 40- 438 32- 49- 395 39- ++ 319	47- 260 45- 175 48- 157 51- 125 48- 111 54- 080 56-		319 08600 47- 157 13280 51- 111 15550 54-		
CRAWLEY 03774	02 855++	014 997 792	992 ++ 06 952 08 04 860 01 02- 823 02 06- 800 ++ 12- 749 03- 17- 663 06- 23- 559 17- 29- 547 16- 27- 522	++ 26- 439 27- 32- 385 31- 36- 322 ++ 46- 253 53- 225 52- 201 55- 191 51- 060 56-		253 10270 53-		
	02 685++	017 999 850	982 11 02 864 ++ 02- 790 ++ 10- 768 07- 14- 740 08- 17- 722 07- 19- 689 ++ 23- 594 15- 30- 451 29- 43- 404	32- 46- 356 38- 50- 255 49- 104 53- 081 59- 076 56- 032 54-		255 10200 49-		
CAMBORNE 03808	02 784++	015 005 842	982 ++ 06 950 ++ 05 924 06 00 854 01 00 755 06- 09- 738 04- 14- 728 ++ 24- 689 ++ 31- 631 ++ 27- 616 09-	30- 554 15- 37- 502 17- 36- 490 16- 34- 450 20- 34- 388 29- 34- 317 40- 44- 246 53- 230 52- 210 56- 193		210 11550 56-		
	25 43400	020 009 874	998 ++ 06 952 ++ 04 928 ++ 00 857 02- 04- 740 06- 08- 714 05- 20- 547 13- 33- 639 13- 34- 487 ++ 43- 438	26- 40- 400 32- 39- 385 31- 40- 355 39- 50- 257 50- 250 49- 221 55- 170 51- 087 57- 081 61- 070 55- 052		221 11180 55-		
VALENTIA 03953	25 22500	010 008 860	904 02 01- 869 01 04- 780 06- 09- 752 08- 17- 575 20- 33- 457 32- 42- 341 38- 49- 306 42- 231 46- 165 44-	133 50-		306 08900 42- 133 14200 50-		
	03 53500	016 014 857	009 10 04 905 02 01- 857 00 02- 807 04- 07- 784 04- 10- 422 32- 50- 409 32- 50- 313 40- 261 49- 254 47-	238 48- 104 47-		261 10000 49-		
Ocean Weather Station 'I' 59°00'N 19°00'W	01 20932	983 983 851	920 05 03 880 02 01- 806 03- 05- 779 04- 09- 666 ++ 19- 577 ++ 25- 432 38- 41- 428 37- 41- 385 41- 271	42- 149 45- 102 47- 050 51-		385 06950 41-		
	03 434++	991 991 872	934 04 02 781 06- 07- 730 09- 12- 638 ++ 23- 466 34- 40- 392 40- 46- 354 45- 267 44- 232 42- 180 45-			354 07600 45-		
Ocean Weather Station 'J' 52°30'N 20°00'W	41 15322	007 007 890	828 05- 08- 812 05- 15- 630 15- 38- 472 28- 50- 390 40- 332 42- 287 46- 188 44- 108 52- 070 53-			287 09150 46-		
	15 59440	013 013 920	931 01 00 834 05- 11- 820 03- 12- 723 09- 22- 677 10- 26- 568 17- 36- 437 30- 47- 388 32- 266 53- 247 52-	230 47- 205 51- 176 46-		266 09900 53-		

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	062332	T	230 12	+++ ++	240 25	230 25	220 25	210 22	170 29	150 40	140 43	140 43	160 18	210 06	210 15	240 08	P260 09	210 04			
	070530	P	210 13	+++ ++	240 22	220 17	220 19	220 18	210 21	190 19	160 28	160 24	170 12	210 12	220 09	250 11	250 06	000 00	170 06		
	071130	T	230 19	+++ ++	220 17	220 18	210 21	220 21	210 11	180 16	180 11	160 13	180 15	190 10	210 13						
	071730	P	210 15	+++ ++	210 16	230 14	210 16	200 19	220 10	270 13	300 22	200 11	230 10	230 11	250 08	260 10					
STORNOWAY 03026	062338	T	190 20	+++ ++	220 38	220 38	230 34	230 33	230 31	230 23	250 15	210 21	220 19	220 20							
	070600	P	210 19	+++ ++	230 39	240 39	230 38	230 31	230 24	240 19	260 24	240 20	250 19	250 18	260 14	240 16	240 11				
	071210	T	240 23	+++ ++	230 36	240 34	230 40	230 40	230 32	220 32	240 32	240 30	240 23	260 23	250 18	260 23	260 16	250 15			
	071730		No winds reported.																		
SHANWELL 03170	062330	T	230 14	+++ ++	250 37	250 36	250 28	250 27	250 25	260 19	240 47	230 40	240 31	250 31	230 36	250 18	310 06				
	070530	P	240 18	+++ ++	260 34	260 35	260 33	250 27	240 23	260 23	240 49	250 42	260 24	250 30	270 26	270 14	280 15	290 04			
	071130	T	270 23	+++ ++	240 31	230 31	250 30	250 29	240 22	270 11	300 15	280 26	260 34	260 34	260 37	260 26	270 20	270 07	000 00		
	071730	P	250 20	+++ ++	260 34	260 38	260 36	270 25	270 18	270 17	270 23	280 42	280 42	280 36							
ALDERGROVE 03917	062345	T	220 20	+++ ++	260 35	260 35	250 35	250 35	250 40	260 46	260 39	260 47	260 49	260 48	260 35	260 24	290 14	250 07			
	070545	P	220 19	+++ ++	260 40	270 37	260 37	260 39	260 48	260 56	260 70	260 62	270 57	270 50	280 38	290 33					
	071130	T	260 22	+++ ++	270 35	270 35	270 42	270 43	270 43	270 42	260 47	270 55	270 58	270 52	270 39						
	071730	P	240 25	+++ ++	260 37	270 43	260 45	270 44	280 42	280 40	280 49	280 71	280 68	280 54	270 45	280 33					
AUGHTON 03322	062330	T	230 15	+++ ++	260 34	260 35	260 37	260 38	260 43	250 44	250 46	260 64	260 56	260 45	260 47	270 24	280 11				
	070530	P	230 16	+++ ++	260 34	270 33	270 27	270 34	270 40	270 48	280 48	270 57	270 62	270 52	270 24						
	071130	T	230 18	+++ ++	250 30	250 28	260 37	270 34	270 45	260 66	260 81	270 73	270 60	270 47	270 52	260 27	250 12				
	071730	P	220 19	+++ ++	270 36	280 37	280 37	280 46	290 44	290 55	290 56	290 74	280 76	270 57	270 46	250 38					
HEMSBY 03496	062330	T	250 13	+++ ++	260 29	250 25	250 35	250 36	250 47	240 59	250 73	260 95	260 92	260 51	260 38						
	070530	P	230 13	+++ ++	270 29	270 28	270 26	270 28	260 36	260 40	260 68	260 84	260 74	270 46	260 38	280 22					
	071130	P	250 18	+++ ++	270 30	270 33	270 30	270 35	260 40	270 51	270 48	270 77	280 66	270 56	270 48	260 27					
	071730	P	250 09	+++ ++	250 31	260 36	270 38	270 37	280 45	270 62	270 74	270 77	280 79	280 56							
CRAWLEY 03774	062330	T	250 07	+++ ++	250 29	250 25	260 33	260 40	250 54	260 75	260104	270138	280126	270 77	270 50	270 21	270 16				
	070530	P	000 00	+++ ++	260 30	270 37	270 38	270 40	270 50	270 74	260125	270126	270126	280 64	270 50	270 34	260 13	270 08			
	071110	P	270 15	+++ ++	260 24	270 28	270 33	270 36	270 44	280 52	280 93	270107	270115	280 82	280 41	280 33					
	071740	P	270 10	+++ ++	280 42	270 42	260 37	270 40	280 52	280 57	290110	290118	290126	280 73	280 39	280 28	290 17				
CAMBORNE 03808	062330	T	240 12	+++ ++	260 32	260 34	270 42	250 50	260 65	260107	270126	270124	270118								
	070530	P	260 10	+++ ++	280 28	280 33	280 37	280 39	280 55	280 90	270113	270120	270107	270102							
	071130	T	260 20	+++ ++	270 30	270 34	260 37	270 44	270 53	270 84	270115	270114	270123	270 95	270 52						
	071730	P	270 18	+++ ++	280 27	280 31	280 36	280 44	280 57	290 89	280118	290115	290108	280100							
VALENTIA 03953	062335	T	260 18	260 19	+++ ++	270 40	+++ ++	270 38	+++ ++	270 52	270 87										
	071130	P	270 10	+++ ++	260 32	270 35	270 40	270 48	280 63	280 71	270103	280118									
Ocean Weather Station 'I' 59°00'N 19°00'W	070000	T	290 08	+++ ++	290 07	290 07	300 06	300 08	310 14	310 16	320 15	010 15	340 08	260 03	240 12	250 12	260 09				
	070600	P	000 00	+++ ++	+++ ++	+++ ++	+++ ++	310 15	310 21	300 15	320 19	310 10	310 09	290 11	280 11	250 13					
	071200	T	030 18	+++ ++	+++ ++	340 20	360 19	360 18	340 15	030 11	030 20	360 15	310 08	260 08							
	071800	P	315 20	+++ ++	310 29	310 26	330 25	320 22	330 20	350 24	030 37	030 19	270 32	270 20	260 19						
Ocean Weather Station 'J' 52°30'N 20°00'W	062300	T	270 30	270 31	+++ ++	260 41	+++ ++	280 50	+++ ++	270 63	270 74										
	070600	P	270 30	+++ ++	280 42	280 38	280 32	280 32	280 39	280 48											
	071100	T	270 30	270 31	+++ ++	280 40	+++ ++	280 40	+++ ++	280 70	280 77										
	071800	P	270 30	+++ ++	260 29	280 29	270 32	270 40	270 47	270 52											
LARKHILL 03743																					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

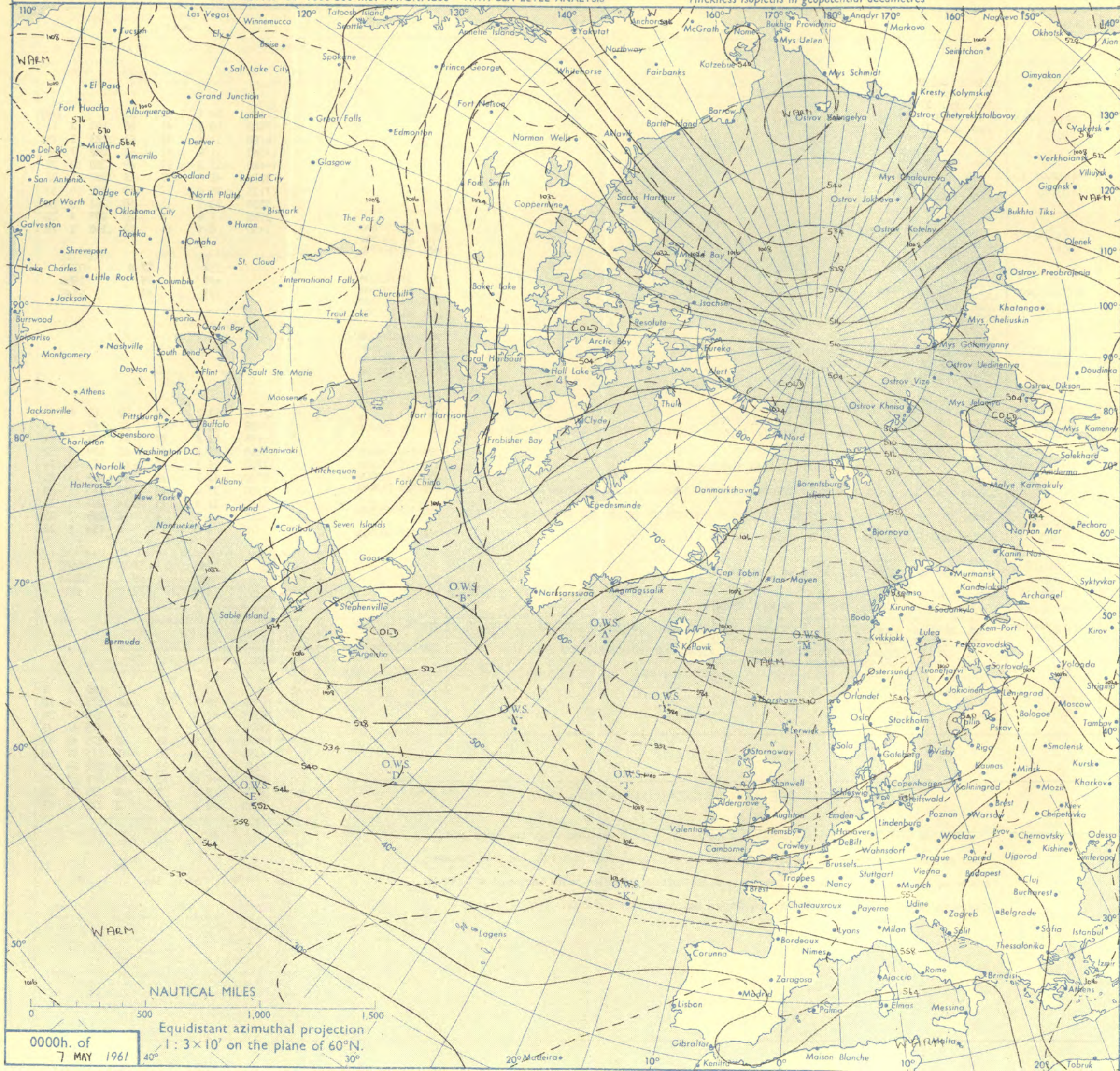
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :— Inversion Levels :—														
Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE 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	04110/2 04490/2 08560/5	
STORNOWAY 03026	176mb 220 19 19800m 260 07 046mb 250 11	
SHANWELL 03170	051mb 160 03 22800m 090 05 06490/0 P25500m 190 08 13200m 280 34	
ALDERGROVE 03917	17100m 280 22 12570/1 118mb 270 45	260 72 07810m 270 66 10080m 280 76 08970m
AUGHTON 03322	064mb 340 06 13200m 270 38 12290/1 056mb 230 13 08510/0	260 69 08320m 270 64 09950m 260 83 07300m 280 81 10530m
HEMSBY 03496	226mb 260 69 18000m 300 10 06890/0 11540/1 332mb 280 75 087mb 270 25 04600/0 10650/1	260 99 09580m 260 85 08760m 270 78 09160m 280 85 10480m
CRAWLEY 03774	220mb 270 98 21900m 040 06 05580/0 06380/0 11570/1 17400m 280 23 06800/0 12030/1 12410/1 12800/1 06600m 280 71 11160m 290 100 00850/0 06900/0 09200/1 09720/0 10650/1 11160/1 13300/1	280 140 08890m 270 129 08920m 270 117 10580m 290 136 10400m
CAMBORNE 03808	243mb 270 117 13800m 270 89 04370/0 04830/0 05260/0 05700/0 187mb 270 79 106mb 270 34 13200m 280 76 03670/0 05260/0 07420/1 10600/0 11550/1 11900/1 13150/1	270 124 09560m 270 129 08120m 280 125 10790m 270 120 11280m
VALENTIA 03953	904mb 270 38 752mb 260 36 575mb 270 5 0 457mb 270 54 341mb 270 23 306mb 270 111 00300m 260 30 00600m 260 32 10200m 290 86	270 124 08050m 280 118 08780m
Ocean Weather Station 'I' 59°00'N 19°00'W	346mb 350 14 215mb 310 06 063mb 290 06 887mb 330 21 186mb 250 09 09900m 300 09 14700m 260 26 09030/7 09750/6	
Ocean Weather Station 'J' 52°30'N 20°00'W	828mb 260 42 812mb 270 43 630mb 280 65 472mb 270 66 390mb 270 73 00300m 270 35 00600m 270 39 06600m 280 56 931mb 270 39 723mb 280 40 568mb 280 40 437mb 280 80 388mb 280 73 00300m 270 28 00600m 260 29 06600m 270 54	270 76 06550m 280 82 06600m
LARKHILL 03743		

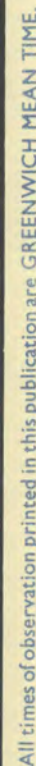
AVERAGE AND EXTREME VALUES 1951-55							
MAY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22145	-50.1	-46	-55	...	...	(10)
60	19500	-50.3	-43	-60	102	2	11
100	16180	-51.4	-44	-62	283	3	13
150	13540	-51.0	-42	-62	288	7	19
200	11680	-53.8	-39	-69	288	10	27
300	9070	-48.8	-37	-56	281	11	36
400	7125	-35.0	-27	-49	282	10	32
500	5530	-23.2	-15	-38	283	8	26
700	2985	-7.0	1	-20	289	4	20
850	1450	0.9	11	-10	310	2	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		254	-57.8		10230		
Max.		479	-39		12800		
Min.		171	-69		5545		
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	22100	-52.2	-50	-58	85	9	11
60	19480	-52.8	-46	-62	69	1	10
100	16195	-53.8	-44	-61	284	5	14
150	13590	-53.3	-46	-65	284	10	22
200	11750	-55.3	-42	-67	282	15	34
300	9140	-47.7	-38	-56	274	15	45
400	7180	-33.4	-23	-48	270	13	38
500	5580	-21.4	-11	-34	267	11	31
700	3015	-5.3	6	-16	258	7	23
850	1470	3.0	15	-6	254	5	20
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		244	-58.0		10560		
Max.		405	-39		13685		
Min.		158	-72		6825		
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	...	...	...	...	180	2	8
60	19500	-59.3	-57	-66	270	6	10
100	16315	-60.2	-51	-67	270	24	26
150	13775	-59.1	-49	-71	275	40	43
200	11970	-58.9	-48	-67	275	48	53
300	9355	-43.8	-39	-49	275	42	50
400	7365	-28.2	-23	-38	275	34	40
500	5720	-16.0	-12	-28	275	27	32
700	3095	2.2	9	-9	275	16	23
850	1500	12.2	24	2	275	9	16
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		117	-65.1	...	80	...	-71
		199	-60.9	365	...	-41	...
* 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



Isopleths in geopotential decametres



HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

STATION	YYGG _{gg}	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	072330	082	07	06	021-	++	++	1304	00	04-	2832	09-	18-	5341	28-	33-	6906	40-	46-	8812	50-	++	11513	44-	13438	46-	16128	48-	18465	50-	20656	51-								
	081130	082	10	09	009-	++	++	1316	00	03-	2849	09-	13-	5361	29-	35-	6916	41-	++	8841	46-	++	11572	43-	13499	45-	16187	48-	18527	50-	20759	51-								
STORNOWAY 03026	072335	013	09	06	049-	++	++	1275	00	02-	2796	11-	14-	5289	30-	37-	6836	41-	++	8768	42-	++	11501	45-	13423	46-														
	081200	013	11	08	007	++	++	1334	00	01-	2865	09-	13-	5374	28-	36-	6933	40-	49-	8873	44-	++	11607	44-	13531	47-	16217	48-	18557	51-	20732	53-	24026	54-						
SHANWELL 03170	072330	005	10	06	005	10	06	1324	01-	02-	2848	09-	16-	5360	27-	35-	6924	41-	++	8819	50-	++	11528	46-	13437	46-	16106	50-	18414	54-	20570	54-	23843	54-						
	081130	005	14	11	010	14	11	1344	01	03-	2875	09-	16-	5385	28-	35-	6944	40-	47-	8888	44-	++	11630	46-	13549	46-	16220	51-												
ALDERGROVE 03917	072330	077	09	05	075	++	++	1392	01-	02-	2913	11-	13-	5433	25-	46-	7015	38-	++	8965	45-	++	11652	45-	13579	46-	16262	49-	18570	53-										
	081130	077	11	06	111	10	06	1431	01-	02-	2953	10-	14-	5480	26-	39-	7067	35-	49-	9029	46-	++	11713	48-	13615	48-	16295	51-	18597	54-	20745	56-	23995	56-						
AUGHTON 03322	072330	056	09	06	113	09	05	1434	01-	04-	2955	10-	18-	5467	26-	38-	7042	37-	50-	9001	46-	++	11682	50-	13568	48-	16240	48-	18537	54-	20684	54-	23944	55-						
	081130	056	12	06	133	11	05	1457	01-	04-	2980	09-	19-	5501	25-	38-	7092	33-	46-	9063	43-	++	11767	47-	13648	51-	16326	51-	18624	54-	20787	54-								
HEMSBY 03496	072330	012	08	05	117	09	05	1443	00	03-	2967	10-	14-	5477	28-	41-	7047	39-	++	8993	46-	++	11675	48-	13580	47-	16230	52-												
	081130	012	13	05	128	11	02	1456	01-	04-	2979	09-	23-	5495	27-	40-	7070	37-	++	9016	46-	++	11693	47-	13589	48-														
CRAWLEY 03774	072330	144	08	04	162	08	04	1485	00	04-	3017	08-	20-	5561	22-	35-	7183	29-	40-	9168	46-	++	11794	54-	13665	49-	16298	55-	18567	57-	20708	55-								
	081130	144	13	05	173	12	04	1498	02-	05-	3034	05-	18-	5591	22-	35-	7200	31-	43-	9188	45-	++	11802	52-	13665	52-	16282	56-	18538	58-	20676	53-								
CAMBORNE 03808	072358	088	10	07	192	09	06	1514	00	08-	3061	04-	27-	5648	18-	27-	7287	27-	35-	9298	43-	++	11916	63-	13728	52-	16336	55-	18594	59-	20712	56-	23965	56-						
	081130	088	13	09	216	10	05	1539	02	14-	3088	04-	13-	5676	16-	25-	7326	26-	++	9331	44-	++	11932	62-	13753	53-	16352	55-	18597	60-										
VALENTIA 03953	072330	014	11	07	165	09	05	1490	02-	06-	3021	06-	25-	5580	21-	31-	7200	30-	34-	9190	54-	++	11820	56-																
	081130	014	13	09	201	09	06	1530	02	06-	3082	03-	18-	5670	19-	22-	7300	28-	31-	9310	42-	++	11920	63-																
Ocean Weather Station 'I' 59°00'N 19°00'W	080001		09	07	027	09	07	1347	01-	02-	2870	10-	12-	5390	27-	30-	6970	37-	42-	8890	51-	++	11540	47-	13440	49-														
	081200		09	05	123	08	05	1435	03-	03-	2949	10-	17-	5470	26-	37-	7040	37-	48-	8970	49-	++	11620	50-	13510	49-	16180	49-	18500	52-	20670	53-	23960	53-						
Ocean Weather Station 'J' 52°30'N 20°00'W	072300		09	02	162	07	00	1470	01-	08-	2997	07-	18-	5540	24-	35-	7130	34-	45-	9090	46-	++	11690	55-	13560	50-	16190	52-	++++	++	20630	57-								
	081100		09	03	174	07	02	1492	02	01-	3042	04-	08-	5620	20-	26-	7240	29-	37-	9230	44-	++	11830	63-	13660	54-	16260	54-	++++	++	20680	54-	23980	51-						

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPopause		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 35600	997	987	850	948 07 02 809 02- 06- 725 ++ 16- 650 13- 24- 637 14- 26- 561 22- 29- 544 23- 30- 491 ++ 34- 400 40- 46- 339 50- 294 50- 264 45- 178 44- 100 48- 033 53- Pressure suspect above 100mb.	339	08000	50-
	02 48400	999	989	849	977 08 06 827 02- 06- 796 02- 08- 780 ++ 10- 660 ++ 16- 533 24- 30- 481 31- 38- 427 39- 45- 337 47- 227 42- 100 48- 089 50- 046 51-	337	08080	47-
STORNOWAY 03026	80 785++	994	993	855	988 ++ 06 953 ++ 04 714 10- 13- 642 ++ 18- 589 20- 26- 534 ++ 34- 436 39- 45- 427 39- 45- 347 45- 274 41- 129 48- 114 48-	347	07800	45-
	25 42563	001	999	845	959 07 05 901 03 01 812 ++ 04- 789 ++ 08- 761 ++ 11- 716 ++ 12- 679 11- 16- 644 ++ 18- 538 ++ 33- 510 27- 35- 417 39- 45- 390 40- 50- 334 44- 307 45- 263 41- 218 45- 192 43- 150 47- 110 47- 090 48- 063 53- 030 54-	334	08140	44-
SHANWELL 03170	03 7567+	001	000	870	985 07 03 900 ++ 01 815 03- 05- 775 ++ 11- 708 09- 15- 562 ++ 28- 469 31- 39- 410 40- 47- 333 52- 237 43- 185 48- 158 45- 131 49- 121 47- 106 51- 100 50- 068 55- 030 54- Pressure doubtful above 050mb.	333	08140	52-
	02 61500	001	001	839	975 10 02 906 ++ 01 818 01- 05- 750 04- 12- 648 ++ 19- 612 17- 25- 408 40- 46- 347 44- 298 44- 251 39- 200 46- 128 45- 110 52- 100 51- 082 50- 078 52-	347	07900	44-
ALDERGROVE 03917	01 685++	009	000	885	931 03 01 840 ++ 03- 805 ++ 07- 788 04- 08- 705 11- 13- 677 11- 16- 640 ++ 20- 619 16- 26- 605 ++ 31- 581 18- 36- 479 27- 48- 381 40- ++ 359 40- 339 43- 299 45- 272 50- 249 49- 236 45- 170 43- 128 48- 113 46- 080 55- 076 53- 060 56-	272	09600	50-
	02 555++	013	004	869	968 06 04 947 ++ 03 780 ++ 06- 708 10- 13- 688 10- 14- 636 ++ 17- 540 ++ 36- 432 32- 46- 338 42- 290 47- 143 48- 130 46- 092 54- 082 55- 078 51- 068 55- 030 56-	290	09240	47-
AUGHTON 03322	02 35500	014	007	868	808 05- 07- 798 04- 08- 770 05- 12- 574 ++ 33- 406 37- 50- 375 37- 50- 281 48- 233 46- 191 51- 105 46- 078 57- 074 53- 064 57- 030 55-	281	09440	48-
	25 54500	016	009	870	997 10 05 881 01 01- 850 01- 04- 809 04- 06- 775 04- 09- 740 07- 12- 710 ++ 18- 684 10- 20- 607 ++ 20- 585 18- 25- 560 20- 32- 457 30- 44- 417 32- 46- 345 40- 267 46- 214 45- 154 51- 136 50- 121 43- 099 52- 083 56- 074 52- 068 55- 063 53- 034 54-	267	09830	46-
HEMSBY 03496	02 00900	014	013	850	958 08 04 830 ++ 05- 736 08- 13- 718 08- 13- 600 ++ 28- 481 30- 44- 413 37- 50- 385 41- 354 41- 299 46- 196 48- 164 46- 090 53-	299	09000	46-
	03 785++	015	014	858	008 11 03 950 ++ 00 879 ++ 01- 777 07- 09- 763 05- 09- 739 06- 17- 592 18- 35- 541 23- 36- 418 35- 50- 312 46- 272 48- 183 47- 130 50-	272	09660	48-
CRAWLEY 03774	02 00900	020	002	852	992 08 04 849 ++ 04- 838 01- 06- 803 02- 10- 686 09- 22- 603 14- 29- 525 21- 34- 448 25- 38- 438 24- 37- 413 27- 38- 334 ++ 48- 314 44- 285 49- 239 53- 219 57- 208 53- 163 49- 121 50- 098 55- 087 54- 076 58- 045 55-	219	11200	57-
	02 685+1	021	003	871	922 04 01- 818 05- 08- 797 01- 08- 767 ++ 13- 721 04- 17- 624 11- 25- 560 17- 30- 433 29- 41- 388 31- 43- 334 ++ 50- 298 45- 263 53- 219 60- 210 53- 124 51- 101 56- 068 59- 051 53- 040 53-	219	11200	60-
CAMBORNE 03808	02 38400	023	013	785	958 07 05 932 04 03 903 ++ 02- 870 ++ 02- 855 00 06- 842 ++ 10- 833 02 12- 808 ++ 18- 626 08- 32- 569 13- 32- 546 13- 28- 506 18- 27- 491 18- 26- 452 ++ 29- 381 29- 39- 314 40- 50- 198 64- 150 52- 065 60- 047 56- 030 56-	198	11980	64-
	02 3243+	026	015	781	005 ++ 05 995 09 04 962 07 05 938 ++ 00 872 01 02- 838 ++ 34- 830 03 33- 812 ++ 24- 781 00 35- 715 ++ 24- 693 05- 12- 646 08- 13- 628 08- 18- 598 ++ 21- 584 10- 20- 555 13- 20- 526 16- 19- 494 16- 27- 441 20- 44- 304 43- 209 63- 188 62- 165 53- 105 55- 082 60- 058 59-	209	11640	63-
VALENTIA 03953	01 35500	020	019	880	825 04- 08- 804 02- 09- 762 04- 22- 714 06- 24- 691 05- 25- 578 14- 33- 425 28- 33- 364 33- 38- 231 56- 198 56- 173 51- 155 50-	231	10900	56-
	03 45210	025	023	760	023 13 09 000 09 06 890 05 03- 869 02 00 821 02 19- 698 03- 17- 592 11- 13- 551 13- 20- 512 18- 21- 425 26- 28- 387 29- 33- 200 63- 187 60- 150 60-	200	11920	63-
Ocean Weather Station 'I' 59°00'N 19°00'W	61 5552+	003	003	870	932 04 04 824 03- 05- 603 16- 18- 650 ++ 25- 503 27- 30- 467 ++ 35- 446 31- 36- 379 40- 45- 287 54- 196 47- 120 49-	287	09200	54-
	15 6347+	015	015	903	015 09 05 897 01- 02- 813 05- 05- 788 ++ 06- 713 09- 15- 660 13- 24- 570 ++ 34- 380 40- 50- 315 49- 195 50- 127 48- 058 54- 030 53-	315	08700	49-
Ocean Weather Station 'J' 52°30'N 20°00'W	01 45400	019	019	910	880 03- 08- 863 01- 07- 658 09- 22- 426 32- 43- 412 32- 43- 287 48- 230 58- 157 50- 114 51-	230	10800	58-
	60: 25671	021	021	790	021 09 03 934 01 02- 907 02 06- 888 01 10- 859 02 01- 705 03- 08- 486 21- 27- 442 24- 31- 352 35- 44- 203 64- 172 53- 062 55-	203	11700	64-

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	160 13	+++ ++	170 21	170 21	190 16	190 17	190 15	210 17	200 15	200 10	210 07	270 08	260 09	270 09	260 09	290 06			
	080530	P	120 10	+++ ++	140 14	180 14	190 14	180 11	160 15	150 21	140 16	200 06	280 07	300 10	300 09	300 11					
	081130	T	130 09	+++ ++	120 09	120 08	110 06	110 05	130 01	130 07	130 08	040 05	320 08	310 13	300 15	300 10	280 07	320 09			
	081730	P	030 17	+++ ++	040 15	050 17	050 14	040 17	030 12	360 05	070 07	040 10	340 17	330 16	310 16	310 15	310 16	310 06	050 07	210 02	
STORNOWAY 03026	072335	T	230 18	+++ ++	250 35	250 34	260 37	260 37	260 31	260 32	260 27	270 30	280 24	270 27	280 24						
	080535	P	260 24	+++ ++	260 40	260 40	260 38	260 36	270 38	280 35	280 31	290 31	290 31	290 24	280 25	290 24					
	081150	P	300 24	+++ ++	320 35	320 33	320 31	320 29	320 36	310 36	310 31	310 38	300 34	290 31	300 26	290 27	290 16				
	081800	P	310 24	+++ ++	340 34	350 34	340 33	330 32	330 31	310 31	320 48	310 53	310 45	300 33	290 31						
SHANWELL 03170	072330	T	230 23	+++ ++	250 44	260 51	260 44	260 40	260 39	250 31	260 27	270 47	280 46	280 33	280 29	270 28	290 20	270 08	P090 04		
	080530	P	250 20	+++ ++	270 44	270 48	270 47	270 47	280 38	280 43	290 48	270 51	280 47	290 36	290 30	270 25					
	081130	T	260 30	+++ ++	280 37	280 40	290 47	290 49	290 45	290 36	290 47	290 59	290 47	290 38	300 33	290 30					
	081730	P	290 20	+++ ++	300 38	310 42	320 46	320 46	320 38	320 41	310 54	300 71	300 55	310 41	310 38	300 34	310 17	340 12			
ALDERGROVE 03917	072330	T	230 28	+++ ++	260 48	270 54	280 54	280 59	280 54	280 57	280 57	280 93	280 84	270 60	290 40						
	080530	P	260 22	+++ ++	270 46	280 48	280 49	290 55	290 57	290 67	290 82	290 93	290 74	290 48	300 22						
	081130	T	270 28	+++ ++	280 48	290 50	290 48	290 55	290 57	290 65	300 93	290 105	290 92	280 72	300 57						
	081730	P	280 22	+++ ++	300 33	300 45	310 44	310 48	310 52	300 70	300 96	300 126	300 117	290 70	290 61						
AUGHTON 03322	072330	T	230 22	+++ ++	270 46	270 46	270 41	280 40	280 47	280 61	280 70	280 102	290 80	290 69	280 51						
	080530	P	230 24	+++ ++	270 45	280 48	290 44	280 44	280 53	290 66	290 85	280 104	290 82	290 47	280 47						
	081130	T	230 21	+++ ++	260 45	290 46	290 47	290 49	290 55	290 83	290 108	290 101									
	081730	P	250 18	+++ ++	290 45	290 44	300 45	300 52	310 59	300 75	300 98	300 132	290 130	300 135	290 89						
HEMSBY 03496	072330	T	260 14	+++ ++	280 38	280 34	280 33	280 35	280 42	290 59	290 74	290 97	290 88	290 69	280 42	280 33					
	080530	P	250 16	+++ ++	280 36	280 35	280 35	280 37	280 45	280 54	290 79	280 106	290 88	300 54	290 45	280 29	290 09				
	081130	T	260 15	+++ ++	260 29	270 33	280 39	290 42	290 46	290 65	290 78	290 103	290 98	290 71	300 51						
	081730	P	270 19	+++ ++	280 36	280 43	280 45	290 48	290 48	300 56	300 83	300 109	300 95	300 67	300 49	300 35					
CRAWLEY 03774	072330	T	230 15	+++ ++	280 30	290 27	280 30	280 35	290 49	290 70	290 123	300 122	290 116	290 95	290 53	300 26	290 13				
	080530	P	250 12	+++ ++	290 33	290 29	290 30	290 42	290 60	290 73	290 101	290 117	290 114	290 104	290 40	300 29	310 07				
	081110	P	270 20	+++ ++	270 30	280 31	290 34	290 45	300 60	290 74	290 112	300 124	290 126	300 81	280 54						
	081730	P	250 15	+++ ++	280 26	300 33	300 40	290 50	300 63	300 71	300 110	300 113	300 125	300 87	310 50	300 38	300 11	350 07			
CAMBORNE 03808	072358	T	260 16	+++ ++	280 33	280 32	280 39	280 48	280 57	290 76	280 90	290 98	280 102	280 107	270 59	290 42	280 49				
	080530	P	280 15	+++ ++	290 25	280 31	290 45	280 51	280 53	280 72	280 95	290 102	290 103	280 102	280 52						
	081130	T	270 20	+++ ++	280 29	290 31	290 34	290 41	290 50	280 74	290 82	290 81	280 98	290 100							
	081730	P	280 15	+++ ++	290 27	290 33	290 35	290 41	290 47	300 63	290 65	280 69	290 77	290 81	290 62						
VALENTIA 03953	072330	T	250 20	260 24	+++ ++	280 35	+++ ++	280 51	+++ ++	280 85											
	081130	T	280 11	270 13	+++ ++	280 27	+++ ++	280 42	+++ ++	280 69	290 95	280 100									
Ocean Weather Station 'I' 59°00'N 19°00'W	080001	T	320 27	+++ ++	330 31	330 26	330 25	330 23	330 22	320 25	330 17	020 16	360 15	290 18	270 23						
	080600	P	315 20	+++ ++	300 20	290 19	280 18	290 17	280 20	290 12	290 09	260 10	250 24	260 25	280 25	240 18					
	081200	T	290 18	+++ ++	280 20	280 18	280 17	280 17	270 19	270 17	200 13	230 19	250 32	260 32	260 27	260 19	260 10	260 08	000 00		
	081800	P	310 20	+++ ++	290 16	280 16	280 15	290 18	280 26	290 35	290 65	270 57	270 47	250 36	270 30	240 27	240 12				
Ocean Weather Station 'J' 52°30'N 20°00'W	072300	T	270 17	270 19	+++ ++	280 25	+++ ++	270 32	+++ ++	270 56	270 53	260 46									
	080600	P	270 05	+++ ++	280 09	280 13	270 18	260 24	260 26	260 38	260 67										
	081100	T	090 08	090 08	+++ ++	180 11	+++ ++	230 22	+++ ++	250 52	270 79	270 80									
	081800	P	090 20	+++ ++	150 18	170 15	220 24	250 33	260 30	260 44	260 52	280 60									
LARKHILL 03743	080630	P	230 07	+++ ++	280 30	290 31	290 41	290 50	290 61	290 71	290 105	290 120	290 131	290 113	290 60						
	081022	P	270 18	+++ ++	270 29	270 30	290 38	290 43	300 56	290 76	290 111	290 113	290 129	290 115	290 55						

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	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
081313	52.0°N 24.5°W	020	012	750	061 08 05	161 05 01	1024 04 04	1487 03 03	1978 02 02	00- 06-	3045 03- 21-	05- 44-	4249 11- 50-	15- 47-	5621 21- 21-	
Cloud :— 1/8Sc. 1800 to 2200ft; 8/8Sc. 2400 to 5000ft; 5/8Sc. 6000 to 6500ft; 4/8Ac. 17000 to 18000ft; 6/8Ac. at 20000ft.																
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	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
081441	49.3°N 19.8°W	021	013	722	061 12 12	171 12 12	1055 11 11	1527 07 03	2024 04 01	02 02	4000 02- 05-	04- 04-	4313 08- 39-	12- 39-	5702 17- 44-	
Cloud :— 8/8St. 100 to 4000ft; 4/8Sc. 4600 to 5000ft; 6/8Sc. 7000 to 9000ft; 7/8Ac. 11000 to 13000ft; 1/8Ci. 22000 to 24000ft; 6/8Cs. at 28000ft.																
Inversion Levels :— 1000 to 968mb 11.3°C. to 12.3°C.										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 290 12 09200/2 05950/2 09150/5 22750/2	
STORNOWAY 03026	124mb 280 23 16800m 280 22 20000m 260 18 15300m 300 26 10140/1	
SHANWELL 03170	17200m 310 24 087mb 290 28	290 68 08000m 300 72 08950m
ALDERGROVE 03917	357mb 280 75 323mb 280 72 111mb 320 44 12500/1 13240/1 116mb 300 54 11300m 290 97 11560/1	290 96 08870m 290 97 08760m 290 111 09000m 300 132 09780m
AUGHTON 03322	125mb 280 46 290 66 11400m 258mb 290 92 07800m 300 115 13200m 290 111 07420/0 12910/1	280 110 09020m 290 106 08900m 290 140 07850m 290 138 12220m
HEMSBY 03496	20400m 330 09 06920/0 09620/1 11800/1 08260m 300 104 18000m 320 14 05300/0 07800/0 10550/1 11070/1 13970/1	290 104 08930m 290 107 08490m 290 105 08760m 300 111 09400m
CRAWLEY 03774	452mb 290 102 056mb 260 08 04020/0 07480/0 11990/1 12330/1 13770/1 06330/0 11490/1 21900m 350 04 04290/0 05920/0 06450/0 11480/1 12100/1 13000/1	290 127 08660m 290 126 11220m 290 132 10810m 300 127 10700m
CAMBORNE 03808	12760m 280 82 15600m 290 36 04950/0 12760/1 13120/1 170mb 290 73	280 108 12100m 280 105 11980m 290 103 11930m 290 84 11950m
VALENTIA 03953	762mb 270 41 578mb 270 65 890mb 270 22 592mb 280 54	270 92 06130m 280 101 09950m
Ocean Weather Station 'J' 59°00'N 19°00'W	330mb 350 12 128mb 250 25 10200m 250 17 16200m 230 17 443mb 230 13 06000m 290 53 17700m 240 17 19200m 230 11 05700/0	290 73 07600m
Ocean Weather Station 'J' 52°30'N 20°00'W	863mb 280 24 658mb 270 36 426mb 270 67 412mb 270 59 287mb 260 46 230mb 260 49 00300m 290 05 00600m 280 07 08700m 260 94 907mb 120 08 859mb 180 10 705mb 230 22 486mb 240 54 442mb 240 63 352mb 270 80 00300m 200 17 00600m 140 18	270 70 06600m 270 62 08600m
LARKHILL 03743	05620/0 12550/1	290 140 10200m 290 134 09640m

NOTES ON THE AEROLOGICAL SITUATION

The Canadian low has largely filled while the downstream ridge has remained stationary. The low in the western Atlantic has deepened and moved southeast and a ridge has developed towards Iceland. The low near Scotland has filled a little and the westerlies over the British Isles have decreased. The Russian ridge continues to move east.

AVERAGE AND EXTREME VALUES 1951-55

MAY

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	22145	-50.1	-46	-55	...	(10)
60	19500	-50.3	-43	-60	102	2
100	16180	-51.4	-44	-62	283	3
150	13540	-51.0	-42	-62	288	7
200	11680	-53.8	-39	-69	288	10
300	9070	-48.8	-37	-56	281	11
400	7125	-35.0	-27	-49	282	10
500	5530	-23.2	-15	-38	283	8
700	2985	-7.0	1	-20	289	4
850	1450	0.9	11	-10	310	2

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9
60	19480	-52.8	-46	-62	69	1
100	16195	-53.8	-44	-61	284	5
150	13590	-53.3	-46	-65	284	10
200	11750	-55.3	-42	-67	282	15
300	9140	-47.7	-38	-56	274	15
400	7180	-33.4	-23	-48	270	13
500	5580	-21.4	-11	-34	267	11
700	3015	-5.3	6	-16	258	7
850	1470	3.0	15	-6	254	5

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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	...	...	...	...	180	2
60	19500	-59.3	-57	-66	270	6
100	16315	-60.2	-51	-67	270	24
150	13775	-59.1	-49	-71	275	40
200	11970	-58.9	-48	-67	275	48
300	9355	-43.8	-39	-49	275	42
400	7365	-28.2	-23	-38	275	34
500	5720	-16.0	-12	-28	275	27
700	3095	2.2	9	-9	275	16
850	1500	12.2	24	2	275	9

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb. 117	°C -65.1	mb. 117	mb. 80	°C ...	°C -71
Lower	199	-60.9	365	...	-41	...

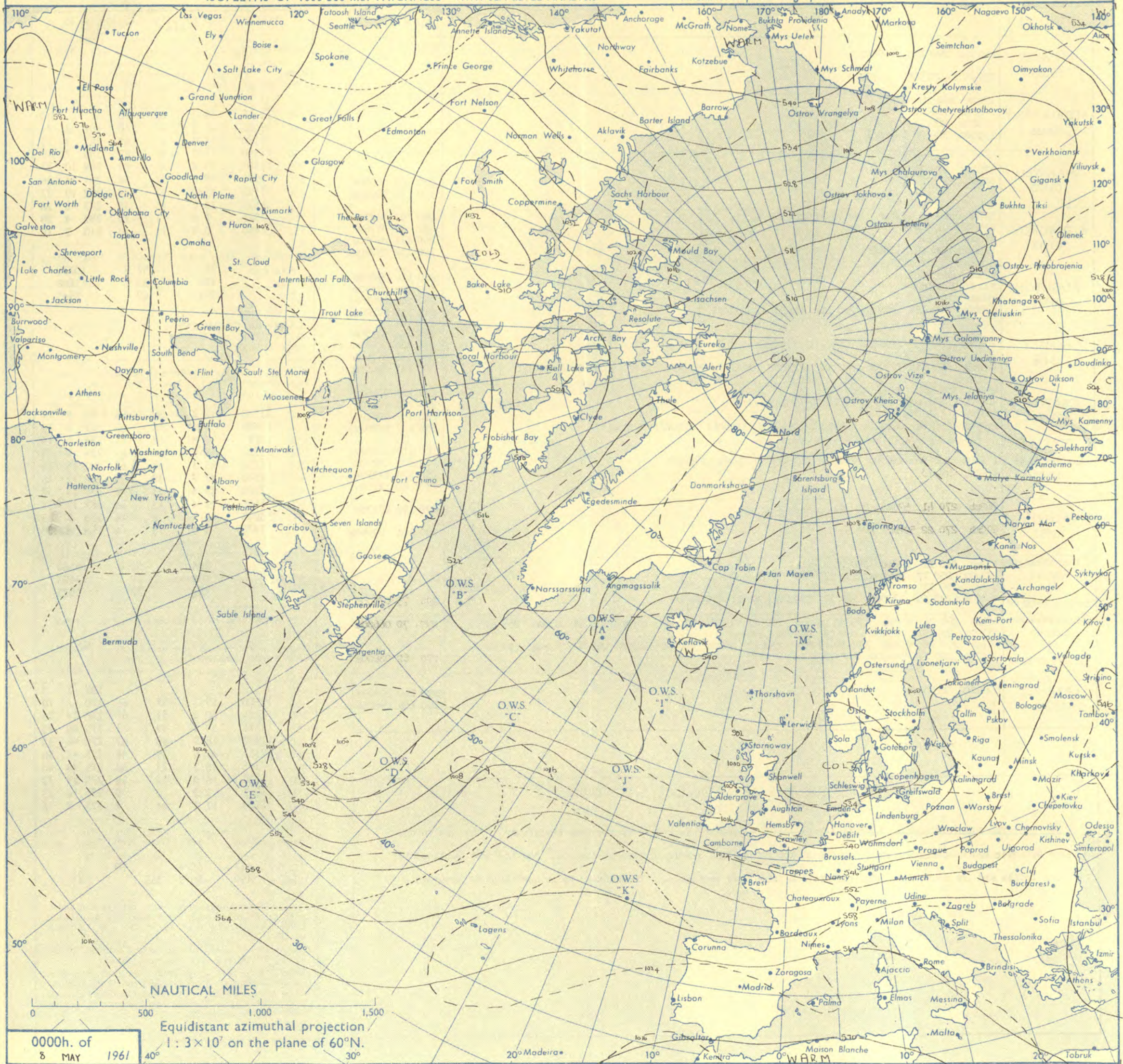
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† 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

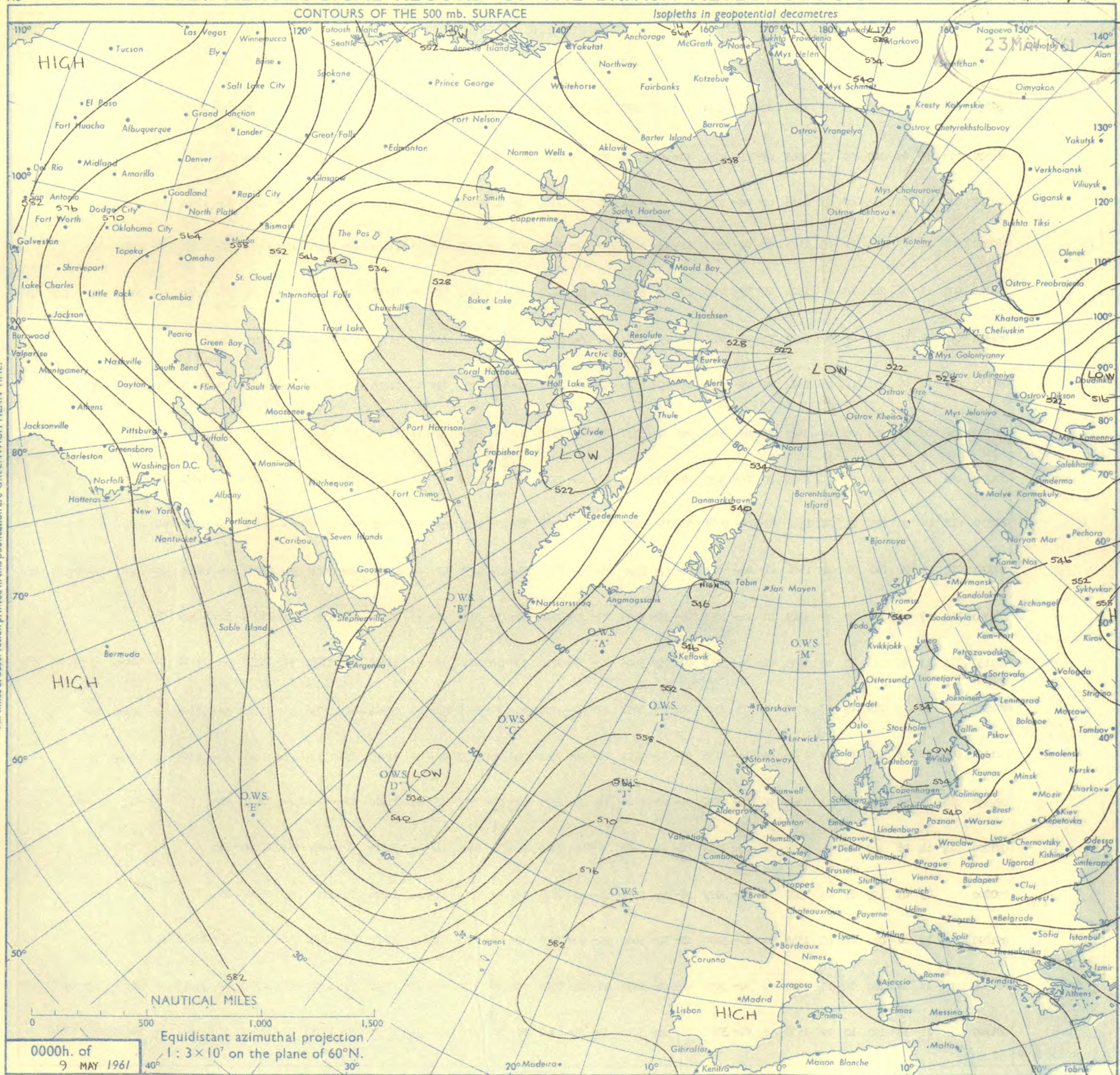
Thickness isopleths in geopotential decametres



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
9 MAY 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	082330	082	07 05	096	07 05	1418	00 07-	2940	11- 18-	5443	27- 38-	7012	39- 46-	8927	52- ++	11603	45- 13517	47- 16189	48- 18518	52-							
	091130	082	11 07	168	09 03	1484	02- 06-	2998	11- 16-	5518	25- 35-	7102	37- 47-	9027	52- ++	11660	48- 13557	49- 16209	52- 18517	53- 20680	54- 23947	54-					
STORNOWAY 03026	082330	013	10 09	147	09 07	1469	01- 05-	2984	10- 21-	5488	27- 35-	7058	40- 47-	8968	48- ++	11634	49- 13529	48- 16181	51-								
	091137	013	11 03	233	07 03	1546	02- 06-	3059	10- 14-	5584	25- 31-	7161	38- 44-	9081	50- ++	11723	50- 13597	51- 16247	51- 18551	54-							
SHANWELL 03170	082330	005	11 09	118	10 04	1445	00 02-	2972	11- 13-	5481	28- 37-	7042	40- 50-	8970	48- ++	11660	47- 13552	49- 16236	52- 18534	55- 20693	54-						
	091140	005	13 02	201	10 00	1524	01- 07-	3039	12- 16-	5552	27- 39-	7122	39- ++	9038	50- ++	11683	51- 13552	52- 16187	53- 18480	55- 20635	55- 23905	53-					
ALDERGROVE 03917	082330	077	09 05	181	09 06	1499	02- 04-	3031	07- 29-	5579	24- ++	7176	34- ++	9140	46- ++	11778	52- 13666	49- 16315	51-								
	091130	077	12 06	239	11 06	1562	00 03-	3104	05- 29-	5670	22- ++	7280	31- ++	9255	47- ++	11883	52- 13746	53- 16366	51- 18681	53- 20863	51-						
AUGHTON 03322	082330	056	09 07	168	09 06	1489	01- 03-	3010	09- 22-	5537	24- 43-	7127	34- ++	9087	47- ++	11734	48- 13619	50- 16260	51- 18542	56- 20683	55-						
	091130	056	12 09	226	09 05	1549	00 06-	3077	08- 17-	5620	23- 34-	7220	34- 46-	9183	45- ++	11827	53- 13692	51- 16328	53- 18614	56- 20770	54-						
HEMSBY 03496	082330	012	10 05	123	09 04	1444	01- 04-	2969	08- 15-	5492	27- 39-	7069	36- 47-	9024	47- ++	11681	48- 13569	50- 16217	53- 18488	55-							
	091130	012	11 07	190	08 04	1506	01- 04-	3029	10- 17-	5546	25- 35-	7123	38- 47-	9053	47- ++	11723	50- 13600	49- 16239	52- 18526	56- 20663	56- 23945	51-					
CRAWLEY 03774	082330	144	07 06	178	07 05	1503	01 04-	3051	05- 21-	5609	23- 39-	7218	31- 43-	9193	45- ++	11806	55- 13665	51- 16282	55- 18539	56-							
	091130	144	13 05	213	10 03	1535	01- 06-	3061	07- 22-	5605	22- 37-	7210	33- 47-	9180	45- ++	11805	54- 13664	51- 16290	55- 18561	57- 20695	55- 23981	54-					
CAMBORNE 03808	082330	088	10 10	219	09 07	1554	04 03	3108	04- 05-	5697	17- 22-	7333	29- 35-	9326	44- ++	11924	61- 13736	53- 16320	58- 18564	59- 20694	56-						
	091130	088	12 06	251	08 02	1578	04 16-	3136	03- 28-	5721	18- 26-	7352	29- 38-	9337	46- ++	11929	62- 13724	57- 16281	60- 18505	59- 20615	59-						
VALENTIA 03953	082330	014	08 06	228	08 05	1561	06 06-	3132	01- 07-	5740	17- 24-	7370	27- 32-	9380	45- ++	11980	60- +++++	++	16370	57-							
	091200	014	14 08	260	10 05	1598	06 07-	3163	02- 11-	5770	16- 22-	7410	29- 35-	9400	44- ++	12010	61- +++++	++	16370	55-							
Ocean Weather Station 'I' 59°00'N 19°00'W	090000		09 05	199	07 03	1509	01- 11-	3039	08- 34-	5570	26- 42-	7140	39- ++	9060	50- ++	11670	53- 13530	51- 16180	51-								
	091200		10 06	229	07 05	1545	06 19-	3100	05- 30-	5660	22- 40-	7260	33- 43-	9220	49- ++	11780	61- 13620	52- 16250	52- 18550	53-							
Ocean Weather Station 'J' 52°30'N 20°00'W	082300		11 10	180	01 11-	1525	06 02-	3092	02- 06-	5690	18- 25-	7320	29- 35-	9310	44- 49-	11920	59- 13740	52- 16370	52- +++++	++	20860	52- 24170	52-				
	091100		11 10	192	10 09	1538	05 01-	3106	00 21-	5710	18- 31-	7340	30- 38-	9320	45- ++	11920	60- 13710	56- 16300	56- +++++	++	20680	56- 23940	++				

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	01 15500	012 002 851	988 08 05 915 03 01 900 03 02 866 ++ 04 830 ++ 09 601 19 27 572 20 32 394 40 47 308 52 290 52	216 45 100 48 064 52		308	08740	52
	02 624++	021 010 887	989 07 01 873 01 04 813 04 09 707 12 16 690 11 16 607 16 26 378 40 50 280 55 211 48 100 52	030 54		280	09460	55
STORNOWAY 03026	03 856++	018 016 868	970 ++ 05 945 06 03 930 ++ 00 857 ++ 04 838 ++ 07 760 09 11 747 08 13 730 ++ 19 680 ++ 24 651 ++ 22 625 ++ 27 553 23 32 518 ++ 38 485 28 40 455 ++ 39 442 33 42 400 40 47 322 51 310 48 135	49 075 54		322	08510	51
	03 52500	029 027 876	013 08 03 910 01 00 893 01 02 860 ++ 05 820 ++ 06 768 ++ 12 713 11 15 693 10 14 640 ++ 19 528	22 28 389 40 46 341 47 285 51 194 50 157 52 133 48 075 54 056 53		285	09410	51
SHANWELL 03170	01 28500	014 014 852	009 ++ 05 813 03 05 696 11 13 669 12 16 567 21 30 433 37 47 397 40 50 345 46 307 48 240 45	161 50 124 44 100 52 091 55 085 55 082 50 070 55 038 52 Pressure doubtful above 050mb.		307	08800	48
	02 58500	024 024 867	014 11 01 972 08 02 914 ++ 03 852 01 07 762 ++ 09 721 11 16 690 ++ 16 671 13 21 616 15 30 577	18 33 504 27 39 417 37 49 332 49 307 50 175 52 133 49 100 53 070 55 030 53		307	08890	50
ALDERGROVE 03917	01 45600	022 013 881	949 ++ 03 860 02 04 841 ++ 04 777 03 11 728 ++ 24 700 07 29 622 13 41 583 14 43 475 27 436	29 347 41 278 49 269 51 238 53 205 53 185 48 109 50 081 56 072 54		238	10630	53
	02 785++	029 020 854	975 08 04 925 ++ 01 903 02 01 837 01 05 807 00 08 784 ++ 12 754 ++ 14 718 ++ 26 641 08 36 500	22 488 22 430 29 416 29 301 46 234 56 175 50 156 54 091 50 074 53 036 51		234	10860	56
AUGHTON 03322	25 885++	021 014 866	768 07 09 749 07 10 729 ++ 11 707 09 22 677 11 23 648 ++ 20 625 15 23 604 ++ 30 536 20 40	453 31 49 409 33 ++ 370 38 ++ 252 54 208 48 089 53 076 58 071 56 038 55		252	10220	54
	03 48500	027 020 858	985 08 05 958 06 04 944 ++ 01 875 ++ 05 795 05 09 769 04 11 727 ++ 15 682 ++ 17 577 16 25 447	28 40 390 36 47 336 42 310 43 261 50 183 54 170 49 100 53 084 56 078 53 069 53 057 53 044 53		235	10780	53
HEMSBY 03496	01 00900	015 013 862	799 04 06 759 04 08 724 ++ 14 650 11 19 505 27 39 491 27 39 446 33 43 381 37 48 265 51 202	48 105 50 083 57 067 55		265	09840	51
	02 775++	023 021 889 864	000 08 04 933 03 01 875 01 03 864 00 02 769 ++ 11 731 08 13 668 11 21 641 ++ 25 571 21 30 547	21 31 384 40 48 336 47 109 51 072 56 047 56 030 51		336	08300	47
CRAWLEY 03774	02 00900	022 004 782	992 ++ 04 955 ++ 04 921 05 00 863 01 03 819 02 06 773 ++ 15 579 14 31 513 22 38 411 30 42 345 ++	49 320 43 307 44 238 57 159 50 112 52 084 59 079 56 060 58		238	10700	57
	02 785++	026 008 870	000 10 03 948 ++ 02 892 01 03 867 ++ 05 791 06 08 782 04 09 770 ++ 13 742 05 18 683 ++ 23 605	15 25 519 20 35 385 ++ 49 354 39 312 43 280 49 223 56 191 53 122 51 114 54 057 57 033 51 030		223	11090	56
CAMBORNE 03808	02 764++	026 016 777	003 09 07 971 07 05 932 07 07 903 06 02 877 06 03 846 03 02 738 ++ 03 620 08 10 557 13 16 516 16	19 506 ++ 22 327 40 46 272 50 216 61 182 62 153 53 106 58 071 59 050 56		216	11460	61
	01 11600	030 020 745	002 08 02 946 04 00 925 03 05 909 05 07 856 04 16 786 02 21 640 08 30 580 11 30 522 17 25 499	18 26 399 30 39 335 40 50 251 55 187 64 153 56 092 61 034 59		187	12340	64
VALENTIA 03953	02 00900	028 026 720	011 09 07 934 04 01 915 07 02 865 06 06 744 02 06 697 01 07 651 07 12 632 06 13 406 26 31 252	54 195 61 135 54 091 57 046 57 038 54		195	12300	61
	02 11401	031 030 746	995 09 04 936 07 04 908 05 03 883 07 10 792 01 04 771 03 02 746 00 16 681 03 12 660 05 10 641 06	11 534 13 26 475 19 25 281 48 206 61 191 60 181 63 169 63 159 59 098 55		206	11800	61
Ocean Weather Station 'I' 59°00'N 19°00'W	01 245++	024 024 913	950 03 01 930 01 03 890 02 04 888 ++ 04 861 00 10 794 ++ 23 725 06 28 567 19 36 392 40 324 48	231 58 215 54 142 50 094 52		231	10800	58
	03 585+2	028 028 912 769	969 04 03 908 ++ 01 896 01 06 862 04 15 857 04 19 827 04 21 680 ++ 32 622 11 26 458 ++ 43 352	40 48 238 61 213 62 164 53 113 51 053 53		238	10700	61
Ocean Weather Station 'J' 52°30'N 20°00'W	02 4752+	021 021 745	910 07 07 894 08 05 818 05 07 768 01 03 626 06 09 547 13 22 431 25 30 335 38 44 222 58 183 60	152 52 085 52		222	11300	58
	20 863++	023 023 700	967 08 08 946 11 06 800 01 05 780 03 20 650 02 22 222 59 195 61 125 53 070 58 037 55			195	12100	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	082330	T	330 12	+++ ++	360 17	350 18	350 17	340 18	340 19	350 16	030 12	030 15	340 17	330 20	310 21	300 14	300 13				
	090530	P	330 14	+++ ++	340 24	330 28	330 22	330 26	330 18	340 14	040 09	060 08	330 27	330 28	320 20	320 20	310 13				
	091130	T	350 17	+++ ++	350 22	340 21	340 22	330 24	340 28	320 24	310 16	280 11	310 23	320 23	320 19	320 19	330 22	340 08	040 06		
	091730	P	320 22	+++ ++	330 28	330 34	320 34	320 37	320 36	310 43	320 50	320 46	320 37	320 32	330 21	320 21	350 12	320 10			
STORNOWAY 03026	082330	T	310 13	+++ ++	330 19	320 16	320 21	330 21	320 24	320 31	320 39	310 44	300 39	310 37	300 29	310 20					
	090545	P	320 16	+++ ++	340 24	340 26	340 27	320 28	310 34	320 39	320 47	310 57	310 48	300 40	310 28	320 20	310 13				
	091137	T	310 13	+++ ++	330 18	330 23	340 24	330 28	330 36	330 41	320 51	320 63	320 68	310 42	310 36	300 21	320 15				
	091730	P	330 14	+++ ++	310 14	310 19	320 24	330 28	340 39	340 55	330 73	320103	320 85	320 58	320 36	310 24					
SHANWELL 03170	082330	T	300 16	+++ ++	330 22	340 28	340 34	340 31	330 34	320 41	320 52	310 61	300 55	310 42	310 45	300 18	360 06	320 08	P030 09	080 07	
	090530	P	270 15	+++ ++	340 27	350 32	340 30	330 23	320 30	320 43	320 56	320 49	320 49	310 46	310 39	310 20	310 11	360 10			
	091140	T	340 19	+++ ++	330 25	330 22	330 22	330 25	330 31	330 45	320 56	320 58	320 58	320 49	310 38	320 25	310 11	360 06	040 10		
	091730	P	360 14	+++ ++	330 18	340 20	350 27	330 28	330 34	340 39	340 50	330 88	330 73	320 52	340 36	310 22					
ALDERGROVE 03917	082330	P	290 15	+++ ++	310 39	320 36	320 38	310 40	300 55	300 74	300 94	310112	300115	300 68	300 58						
	090530	P	270 08	+++ ++	330 24	330 25	340 27	330 33	320 45	310 65	310 85	310102	310 94	310 81	310 36						
	091130	T	350 12	+++ ++	330 19	330 20	330 23	340 32	330 50	320 63	320 90	320106	310104	310 76	310 54	300 36					
	091730	P	340 14	+++ ++	330 20	350 19	350 20	340 28	330 43	340 50	320 66	330 92	320101	320 72	320 36	320 36	340 21				
AUGHTON 03322	082330	T	270 18	+++ ++	310 42	320 41	320 39	310 40	300 51	300 85	300 99	280 82	280 75								
	090530	P	270 13	+++ ++	330 32	330 31	330 34	320 37	330 46	320 58	320 97	310108	320101	310 80							
	091130	T	290 22	320 21	330 17	340 20	340 25	330 31	330 44	330 65	320 80	320105	310102	300 83							
	091730	P	280 12	+++ ++	320 22	330 19	350 22	340 31	340 41	340 59	330 97	330117	320100	310 89	310 98						
HEMSBY 03496	082330	T	280 21	+++ ++	310 51	310 50	300 41	310 48	310 50	310 59	300 95	300109	300 93	300 67	310 52	330 25					
	090530	P	300 17	+++ ++	330 34	330 33	330 35	330 41	330 43	320 51	310 65	310 88	310 77	310 68	310 40	310 32					
	091130	T	340 25	+++ ++	330 26	340 25	340 32	340 35	330 35	320 49	320 62	320 74	320 80	320 60	320 48	320 33	310 04	350 05			
	091730	P	350 14	+++ ++	340 31	330 32	340 35	340 34	340 36	340 41	330 44	330 71	330 70	330 55	330 42	320 26	320 15	260 10	320 04		
CRAWLEY 03774	082330	P	250 10	+++ ++	310 36	310 35	310 41	310 46	300 54	300 66	300 96	300107	300105	300 82	310 57	320 23					
	090530	P	300 17	+++ ++	330 32	330 32	320 35	310 42	310 69	310 73	310 91	310102	310110	310 97	310 53	310 32					
	091110	P	300 08	+++ ++	330 18	350 23	340 25	330 31	330 43	330 70	320 90	320 99	320 94	320 76	320 40	320 34	360 09				
	091730	P	300 07	+++ ++	340 16	340 21	340 23	340 27	340 42	330 59	330102	330118	330100	330 75	330 48						
CAMBORNE 03808	082330	T	290 11	+++ ++	300 21	300 25	290 31	290 30	300 44	300 58	300 71	300 73	290 76	290 75	290 50						
	090530	P	350 08	+++ ++	330 17	330 21	320 24	310 28	310 45	310 51	300 59	310 72	300 67	310 69							
	091130	T	360 12	+++ ++	350 10	330 15	330 27	330 25	320 38	310 50	320 49	310 63	310 71	310 66	300 47	310 27	300 18	010 10			
	091730	P	360 10	+++ ++	010 13	360 17	340 24	340 22	330 33	330 46	320 48	320 58	320 82	320 80	320 44	300 32					
VALENTIA 03953	032358	P	000 00	+++ ++	300 15	290 13	280 13	290 24	290 38	290 53	290 61	290 80	290 79	280 70							
	091200	T	280 08	250 06	+++ ++	300 03	+++ ++	320 20	+++ ++	310 38	310 38	300 53	+++ ++	300 73	290 53	290 32					
Ocean Weather Station 'I' 59°00'N 19°00'W	090000	T	300 11	300 10	+++ ++	290 08	280 17	280 23	310 34	300 30	280 44	270 88	280105	280 42	250 35						
	090600	P	225 05	+++ ++	190 06	210 06	220 05	230 13	240 19	260 27	260 48	280 94	270121	260 54	270 33						
	091200	T	150 18	140 21	+++ ++	180 24	180 20	180 23	210 18	240 24	260 46	250 67	260 75	280 57	250 28	250 13	250 05				
	091800	P	180 30	+++ ++	170 39	190 39	220 39	200 36	220 36	210 29	240 47	230 53	260 86	260 59	250 30	270 15	240 18	230 05			
Ocean Weather Station 'J' 52°30'N 20°00'W	082300	T	140 18	160 18	+++ ++	240 20	+++ ++	240 27	+++ ++	240 48	250 50										
	090600	P	135 10	+++ ++	210 16	210 16	210 20	220 19	220 22	220 26	250 36										
	091100	T	180 18	180 22	+++ ++	190 28	+++ ++	220 35	+++ ++	210 39	220 55	220 42									
	091800	P	180 20	+++ ++	190 25	200 30	210 20	210 38	210 42	210 42	200 48	200 45									
LARKHILL 03743	090630	P	270 10	+++ ++	340 30	340 30	320 33	320 38	320 62	310 68	310 90	310 95	310 99	310 89	300 49	320 39					
	091030	P	330 15	+++ ++	330 18	340 24	330 28	330 31	320 48	320 68	320 85	310 96	310 98	310 80	310 46	320 47	310 14				

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
091201	53.5°N 25.3°W	015	008	765	061 11 11	128	08 08	1000 07 07	1466 05 05	1960 02 02	01- ++	3027 02- 02-	05- 05-	4234 09- 09-	15- 22-	5611 20- 29-
Cloud :— 7/8St. 200 to 1500ft; 5/8Sc. 6000 to 7000ft; 8/8Ns. 9000 to 13000ft; 2/8Ac. 13000 to 15000ft; 6/8Ac. 19000 to 20000ft.																
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
091312	57.3°N 23.3°W	016	008	769	061 08 08	128	07 07	997 07 07	1463 03 03	1954 02 02	02- 02-	3021 03- 05-	07- 08-	4225 11- 11-	15- 15-	5602 19- 25-
Cloud :— 8/8Ns. 600 to 6000ft; 6/8As. 9000 to 19000ft.																
Inversion Levels :—										Isothermal Levels :— 950 to 900mb 7½°C.						
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			

UPPER WINDS AT ADDITIONAL LEVELS

STATION		MAX. WIND
LERWICK 03005	19200m 320 13 22500m 360 11	
STORNOWAY 03026	082mb 300 14 14900m 300 25 060mb 330 07 06870/0 07310/0 10190/1	310 63 09480m 320 72 09580m 330 111 09440m
SHANWELL 03170	225600m 080 11 08200m 330 59 09800m 330 100 17400m 320 16 08630/0 09030/0 10220/1 10630/1	320 67 07700m 320 64 08310m 320 61 09740m 330 102 09600m
ALDERGROVE 03917	131mb 310 47 12600m 310 60 03660/6 11820/1 12320/1 06180/0 08450/0 12000/1	310 127 09660m 310 105 09200m 320 114 08770m 320 102 10200m
AUGHTON 03322	07290/0 07700/0 06250/0 06650/0 10630/1	300 110 07580m 310 114 09660m 320 119 09880m 330 124 09070m
HEMSBY 03496	075mb 270 07 00370/0 09720/1 032mb 070 06 08100m 330 57 07500/0 08540/0 10580/1	300 114 08980m 310 90 09420m 320 86 09530m 330 78 10300m
CRAWLEY 03774	03500/0 12190/0 04700/0 05180/0 10150/1 12100/1 06940/0 10000/1	300 110 09480m 310 116 10330m 320 111 09980m 330 123 09080m
CAMBORNE 03808	109mb 290 40 13500m 300 48 039mb 020 13 10520/0	300 82 10580m 300 74 09550m 310 76 11800m 320 90 10760m
VALENTIA 03953	00300m 350 10 00600m 330 14 13800m 290 50 908mb 260 02 792mb 330 09 746mb 320 15 641mb 310 28 169mb 300 62 098mb 290 30	290 83 09660m 300 75 12280m
Ocean Weather Station 'J' 59°00'N 19°00'W	918mb 300 08 335mb 280 62 228mb 280 72 104mb 270 20 07800m 270 66 09900m 270 90 922mb 150 20 454mb 250 53 165mb 270 40 056mb 000 00 09900m 240 63 12300m 240 42 21600m 230 04 09900/0 11330/1	270 120 10040m 290 126 09500m 270 79 10600m 260 96 11200m
Ocean Weather Station 'J' 52°30'N 20°00'W	910mb 210 19 768mb 240 23 626mb 230 33 547mb 240 42 431mb 250 50 335mb 260 44 00300m 170 13 00600m 200 14 08400m 230 38 967mb 190 28 946mb 200 30 800mb 180 30 780mb 180 30 650mb 220 38 00300m 180 22 00600m 190 24 10200m 200 38	
LARKHILL 03743	16760m 290 29 05730/0 12800/1 20120m 360 09	310 104 10185m 310 110 09400m

NOTES ON THE AEROLOGICAL SITUATION

The ridge over eastern North America is increasing in amplitude and moving slowly east. The old low over Baffin Island is almost stationary, but the trough extending southwards from southern Greenland over the western Atlantic is moving east slowly and beginning to relax. The large warm ridge over the east Atlantic is still developing and moving slowly eastwards. The complex low area which yesterday covered Scandinavia, the North Sea and Norwegian Sea has resolved into a slow-moving centre over the Baltic, and a strong northwesterly flow persists over the British Isles and north France. The ridge over north Russia continues to move slowly northeast.

AVERAGE AND EXTREME VALUES 1951-55							
MAY							
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	22145	-50.1	-46	-55	...	...	(10)
60	19500	-50.3	-43	-60	102	2	11
100	16180	-51.4	-44	-62	283	3	13
150	13540	-51.0	-42	-62	288	7	19
200	11680	-53.8	-39	-69	288	10	27
300	9070	-48.8	-37	-56	281	11	36
400	7125	-35.0	-27	-49	282	10	32
500	5530	-23.2	-15	-38	283	8	26
700	2985	-7.0	1	-20	289	4	20
850	1450	0.9	11	-10	310	2	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		254	-57.8		10230		
Max.		479	-39		12800		
Min.		171	-69		5545		
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	22100	-52.2	-50	-58	85	9	11
60	19480	-52.8	-46	-62	69	1	10
100	16195	-53.8	-44	-61	284	5	14
150	13590	-53.3	-46	-65	284	10	22
200	11750	-55.3	-42	-67	282	15	34
300	9140	-47.7	-38	-56	274	15	45
400	7180	-33.4	-23	-48	270	13	38
500	5580	-21.4	-11	-34	267	11	31
700	3015	-5.3	6	-16	258	7	23
850	1470	3.0	15	-6	254	5	20
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		244	-58.0		10560		
Max.		405	-39		13685		
Min.		158	-72		6825		
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	...	...	...	...	180	2	8
60	19500	-59.3	-57	-66	270	6	10
100	16315	-60.2	-51	-67	270	24	25
150	13775	-59.1	-49	-71	275	40	43
200	11970	-58.9	-48	-67	275	48	53
300	9355	-43.8	-39	-49	275	42	50
400	7365	-28.2	-23	-38	275	34	40
500	5720	-16.0	-12	-28	275	27	32
700	3095	2.2	9	-9	275	16	23
850	1500	12.2	24	2	275	9	16
Tropo- pause		Average Press.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		117	-65.1	...	80	...	-71
		199	-60.9	365	...	-41	...

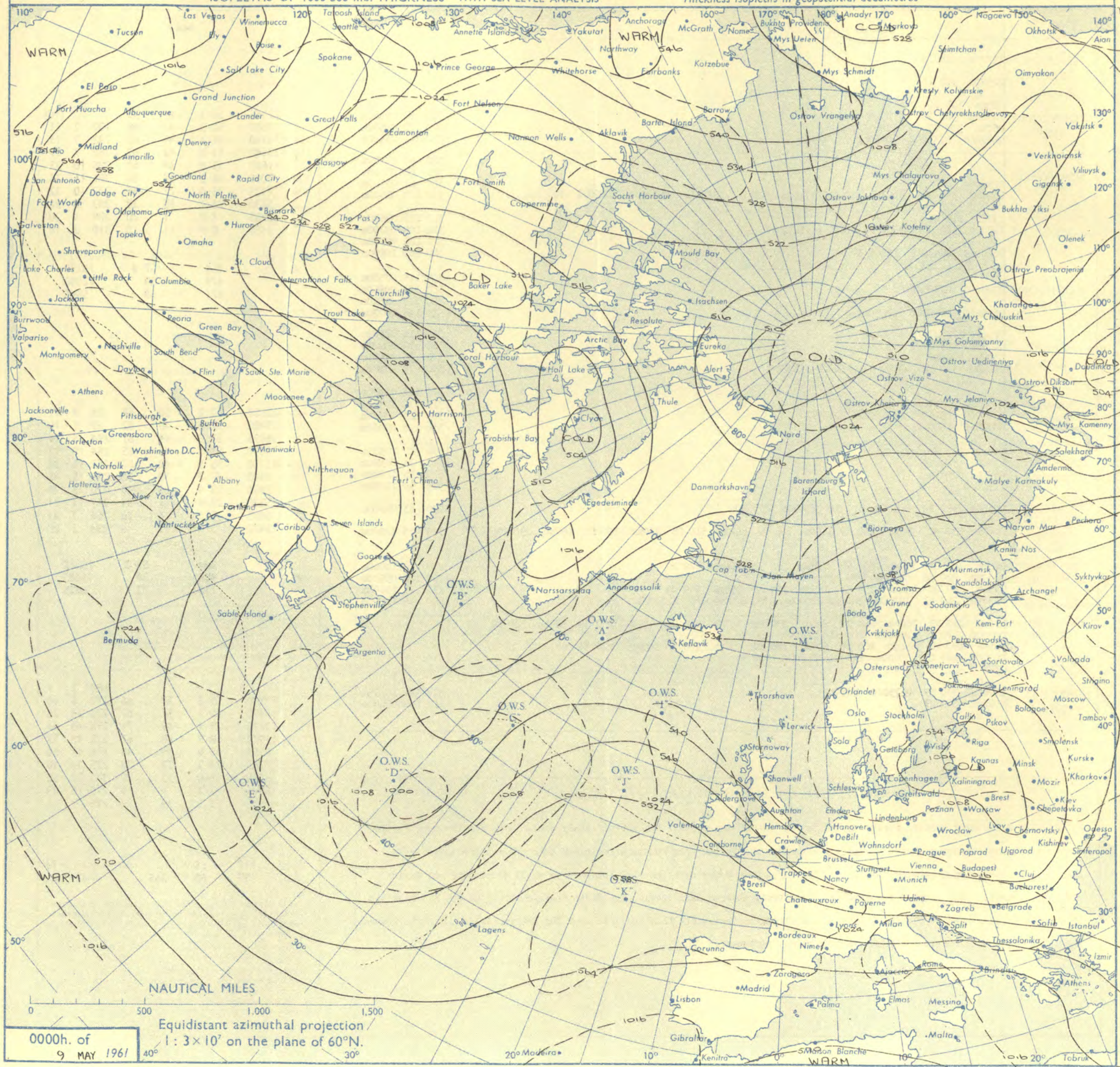
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

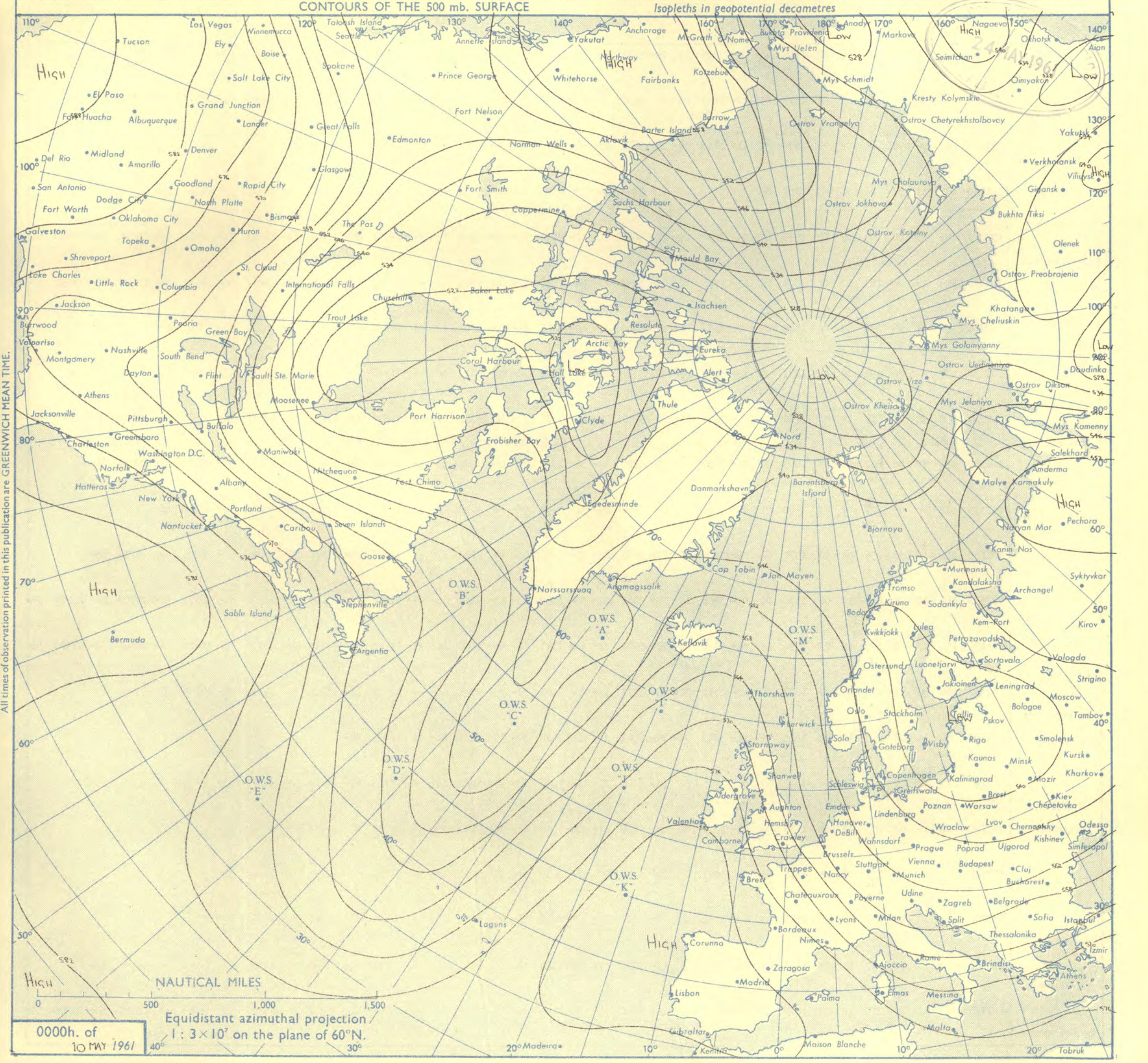
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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





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

0000h. of
10 MAY 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	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C						
LERWICK 03005	092330	082	05	04	219	05	02	1525	04	08	3056	07	20	5591	25	37	7175	37	47	9105	51	++	11732	51	-	13608	51	-	16245	52	-												
	101130	082	08	03	265	05	01	1573	03	12	3129	05	23	5697	22	39	7302	34	44	9243	51	++	11784	61	-	13604	56	-	16205	55	-	18478	55	-	20630	55	-						
STORNOWAY 03026	092330	013	06	05	266	07	04	1578	01	11	3130	04	26	5684	23	44	7290	32	50	9255	48	++	11832	63	-	13652	54	-															
	101130	013	11	07	286	08	03	1617	06	21	3180	03	28	5764	19	22	7381	32	36	9359	46	++	11941	62	-	13739	56	-	16336	53	-	18616	56	-									
SHANWELL 03170	092330	005	09	04	253	09	03	1570	03	05	3090	07	20	5630	24	37	7220	34	46	9189	47	++	11787	53	-	13647	54	-	16263	53	-	18548	55	-	20704	54	-	23980	54	-			
	101130	005	15	05	283	10	01	1609	05	13	3176	02	25	5752	22	44	7358	33	46	9314	48	++	11875	64	-	13671	57	-	16262	54	-	18532	55	-	20673	55	-	23951	53	-			
ALDERGROVE 03917	092330	077	07	05	278	09	06	1605	03	09	3162	02	27	5745	20	42	7366	31	43	9342	47	++	11932	62	-	13753	55	-	16360	52	-	18647	54	-	20807	53	-						
	101130	077	13	06	296	09	04	1631	07	16	3199	02	27	5784	20	27	7402	32	39	9373	46	++	11946	65	-	13720	59	-	16277	58	-	18522	57	-									
AUGHTON 03322	092330	056	08	07	260	10	08	1590	01	02	3125	05	20	5689	22	42	7302	32	48	9272	47	++	11859	61	-	13686	54	-	16287	55	-	18563	56	-	20704	56	-	23967	54	-			
	101130	056	12	08	287	08	05	1605	00	06	3157	03	17	5728	20	34	7333	34	46	9286	49	++	11842	65	-	13621	58	-	16178	58	-	18430	57	-	20559	56	-						
HEMSBY 03496	092335	012	08	05	227	07	03	1540	01	07	3066	09	20	5598	25	38	7176	38	++	9098	51	++	11725	51	-	13587	52	-	16204	54	-	18482	56	-									
	101130	012	12	06	256	08	03	1571	03	06	3102	06	27	5656	23	43	7256	34	++	9209	47	++	11825	58	-	13677	51	-	16294	53	-	18585	54	-	20735	55	-						
CRAWLEY 03774	092330	144	10	06	248	10	06	1576	01	03	3106	10	12	5655	22	35	7260	33	45	9234	46	++	11846	53	-	13699	54	-	16301	54	-	18571	57	-	20702	56	-	23962	54	-			
	101135	144	13	04	273	10	03	1596	01	05	3126	04	19	5698	21	36	7313	31	46	9288	46	++	11903	54	-	13733	54	-	16333	53	-	18609	56	-	20745	57	-	23976	56	-			
CAMBORNE 03808	092330	088	09	07	276	09	07	1607	05	12	3171	02	25	5773	17	27	7403	29	35	9393	44	++	12000	62	-	13797	55	-	16381	58	-	18635	57	-									
	101130	088	14	08	293	10	04	1625	06	11	3203	01	27	5801	17	27	7432	30	38	9427	44	++	12023	65	-																		
VALENTIA 03953	100100	014	07	05	278	10	08	1620	07	01	3203	00	11	5820	17	22	7460	28	36	9470	42	++	12100	61	-	++++	++	16430	57	-													
	101130	014	16	07	293	11	03	1637	09	01	3221	01	08	5840	17	22	7460	31	35	9450	44	++	12060	63	-	++++	++	16380	60	-													
Ocean Weather Station 'I' 59°00'N 19°00'W	100001		10	10	175	09	09	1516	05	04	3077	02	04	5660	20	26	7280	31	35	9260	48	++	11830	62	-	13650	54	-	16280	52	-												
	101200		10	10	179	09	08	1511	03	02	3064	04	38	5640	19	42	7260	31	49	9240	46	++	11860	54	-	13710	50	-	16350	50	-												
Ocean Weather Station 'J' 52°30'N 20°00'W	092300		12	10	197	11	09	1533	01	01	3115	01	11	5720	17	24	7340	30	36	9340	44	++	11940	61	-	13750	53	-	16350	54	-	++++	++	20790	55	-							
	101100		12	10	215	10	09	1549	06	03	3127	01	11	5720	18	25	7340	31	37	9310	48	++	11890	60	-	13710	52	-	16320	54	-	++++	++	20750	55	-	24000	55	-				

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 18400	027	017	916	000 05 02 940 ++ 00 826 05- 09- 805 02- 11- 741 04- 17- 376 40- 50- 287 53- 268 54- 237 50- 100 52- 087 52-																									268	09840	54-
	02 724++	033	022	930 758	008 06 00 880 03- 04- 864 03 06- 860 ++ 10- 825 04- 17- 683 06- 24- 598 11- 30- 510 ++ 39- 450 ++ 38- 364 40- 49- 249 61- 215 64- 175 57- 122 53- 100 55- 046 55-																									215	11320	64-
STORNOWAY 03026	02 15600	033	031	908 742	023 ++ 04 016 08 05 988 ++ 03 964 ++ 02- 897 01- 05- 872 02 08- 822 00 16- 790 01 19- 742 00 22- 509 23- 44- 493 23- 44- 400 32- 50- 286 50- 205 63- 192 62- 174 56- 119 51- 112 53-																									205	11690	63-
	02 38538	035	033	742	016 09 04 939 04 01 935 ++ 01 911 07 07- 905 ++ 13- 898 07 14- 852 06 21- 688 04- 31- 675 ++ 21- 645 ++ 18- 625 ++ 13- 607 09- 19- 584 ++ 17- 534 ++ 19- 405 31- 34- 335 40- 45- 233 59- 212 62- 108 52- 087 55- 068 55-																									212	11590	62-
SHANWELL 03170	02 34400	031	030	883	015 09 03 798 07- 08- 768 05- 12- 758 ++ 16- 723 06- 17- 634 11- 26- 418 34- 46- 367 36- 48- 256 56- 241 58- 216 58- 207 52- 100 53- 082 56- 075 54- 030 54-																									241	10600	58-
	02 31601	034	034	878 731	031 14 02 020 11 01 879 00 02- 859 05 09- 854 ++ 13- 812 05 20- 637 07- 30- 474 25- 46- 440 27- 45- 366 39- 49- 237 60- 206 64- 192 64- 166 58- 124 54- 100 54- 085 58- 072 54- 056 57- 030 53- Pressures doubtful above 060mb.																									206 085	11680 17300	64- 58-
ALDERGROVE 03917	03 26400	034	025	723	021 ++ 06 015 09 07 005 ++ 07 972 ++ 02 918 06 03- 857 02 09- 845 03 10- 788 01 20- 734 01 22- 588 12- 36- 561 13- 43- 506 20- 42- 450 24- 41- 339 ++ 49- 288 49- 220 60- 214 59- 200 62- 164 54- 100 52- 089 55- 032 52-																									200	11932	62-
	03 11506	036	027	729	014 10 04 988 ++ 04 948 06 01- 930 ++ 07- 895 06 11- 852 07- 16- 661 05- 30- 640 ++ 31- 604 ++ 20- 561 ++ 25- 484 21- 27- 463 24- 30- 420 ++ 34- 404 31- 38- 379 34- 40- 345 ++ 46- 334 42- 203 65- 137 57- 087 59- 055 57-																									203	11830	65-
AUGHTON 03322	02 3093+	032	025	840	002 10 08 962 08 03 903 ++ 01- 867 ++ 01- 773 05- 09- 793 03- 10- 704 ++ 18- 615 10- 29- 494 23- 43- 453 24- 43- 343 40- 220 60- 200 61- 159 53- 093 56- 030 54-																									220	11260	60-
	02 52500	035	028	873 765	010 09 06 972 06 04 949 05 02 864 ++ 04- 858 01- 05- 836 02 06- 814 02 09- 714 02- 16- 554 16- 31- 500 20- 34- 462 26- 39- 373 38- 49- 209 65- 186 67- 175 60- 102 57- 045 57- 039 54- 036 53-																									186	12280	67-
HEMSBY 03496	02 25500	028	026	896	002 ++ 04 861 03- 06- 847 01- 07- 835 ++ 09- 757 ++ 15- 728 ++ 19- 667 11- 22- 608 14- 28- 408 37- 49- 352 45- 279 52- 119 53- 063 57-																									279	09560	52-
	02 485++	031	030	892	010 09 04 810 04- 06- 791 03- 19- 750 03- 24- 680 06- 27- 418 32- 50- 342 43- 330 43- 258 55- 242 51- 202 58- 193 55- 151 51- 045 55-																									202	11790	58-
CRAWLEY 03774	02 785++	030	013	828	800 02- 05- 729 09- 11- 686 10- 12- 676 09- 13- 663 ++ 17- 589 14- 26- 382 35- 47- 331 40- 260 54- 215 57- 203 53- 092 55- 030 54-																									215	11390	57-
	02 785++	033	016	869	012 11 03 910 ++ 00 777 07- 09- 765 03- 09- 760 ++ 11- 725 ++ 18- 698 04- 19- 526 18- 33- 441 28- 43- 428 27- 42- 370 ++ 49- 318 44- 270 51- 213 58- 201 54- 175 58- 151 54- 094 53- 071 57- 030 56-																									213 175	11500 12760	58- 58-
CAMBORNE 03808	02 00900	034	023	732	017 10 08 900 04 01- 852 ++ 12- 835 06 14- 620 07- 31- 592 ++ 22- 562 12- 22- 540 12- 24- 518 15- 29- 453 23- 30- 330 40- 46- 223 59- 193 63- 161 60- 154 54- 097 58- 066 56-																									193	12220	63-
	02 11501	035	025	711	008 10 04 990 09 03 970 08 00 951 07 00 932 07 03- 889 05 06- 855 ++ 13- 818 ++ 18- 810 06 18- 602 ++ 29- 566 12- 28- 500 17- 27- 458 23- 32- 321 40- 47- 200 65- 181 67- 169 67-																									181	12630	67-
VALENTIA 03953	02 00900	034	032	700	014 11 09 905 07 02 885 08 03 862 07 01 838 08 01 758 03 02- 734 03 05- 658 03- 14- 575 08- 19- 498 17- 22- 468 20- 42- 343 35- 41- 235 55- 184 64- 160 64- 125 56- 095 57-																									184	12600	64-
	01 00902	036	034	680	015 13 04 939 07 00 888 08 09- 856 09 01- 803 05 01- 733 04 08- 680 00 05- 563 12- 16- 495 18- 23- 386 33- 38- 357 34- 42- 291 45- 263 49- 215 61- 191 63- 165 64- 139 56- 101 60- 040 60-																									191	12300	63-
Ocean Weather Station 'I' 59°00'N 19°00'W	60 873++	021	021	784	958 07 07 942 10 10 901 ++ 06 867 ++ 05 832 ++ 01 770 01- 01- 760 02- 06- 740 01- 11- 720 01- 03- 492 21- 27- 391 32- 36- 341 40- 44- 253 57- 217 62- 200 62- 146 52- 080 52-																									217	11400	62-
	51 871++	022	022	769	864 ++ 03 857 03 00 846 04 02- 838 ++ 05- 779 ++ 08- 748 01- 28- 702 04- 38- 650 ++ 11- 600 ++ 15- 565 ++ 31- 557 14- 33- 525 ++ 41- 430 27- 48- 335 40- 257 54- 239 56- 206 53- 181 55- 147 50- 080 51-																									239	10700	56-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 854++	024	024	690	960 09 08 847 01 01 827 08 01 553 13- 19- 512 15- 23- 468 22- 26- 325 39- 48- 212 60- 180 62- 157 53- 077 54- 040 56-																									180	12600	62-
	02 854++	026	026	710	910 04 04 864 03 02 842 07 07- 764 04 08- 582 11- 17- 560 12- 22- 482 20- 26- 376 35- 40- 240 59- 185 60- 160 52- 090 54-																									240	10700	59-

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGG ^{gg}	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 :— <div style="text-align: right;">Isothermal Levels :—</div>														
YYGG ^{gg}	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 :— <div style="text-align: right;">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			

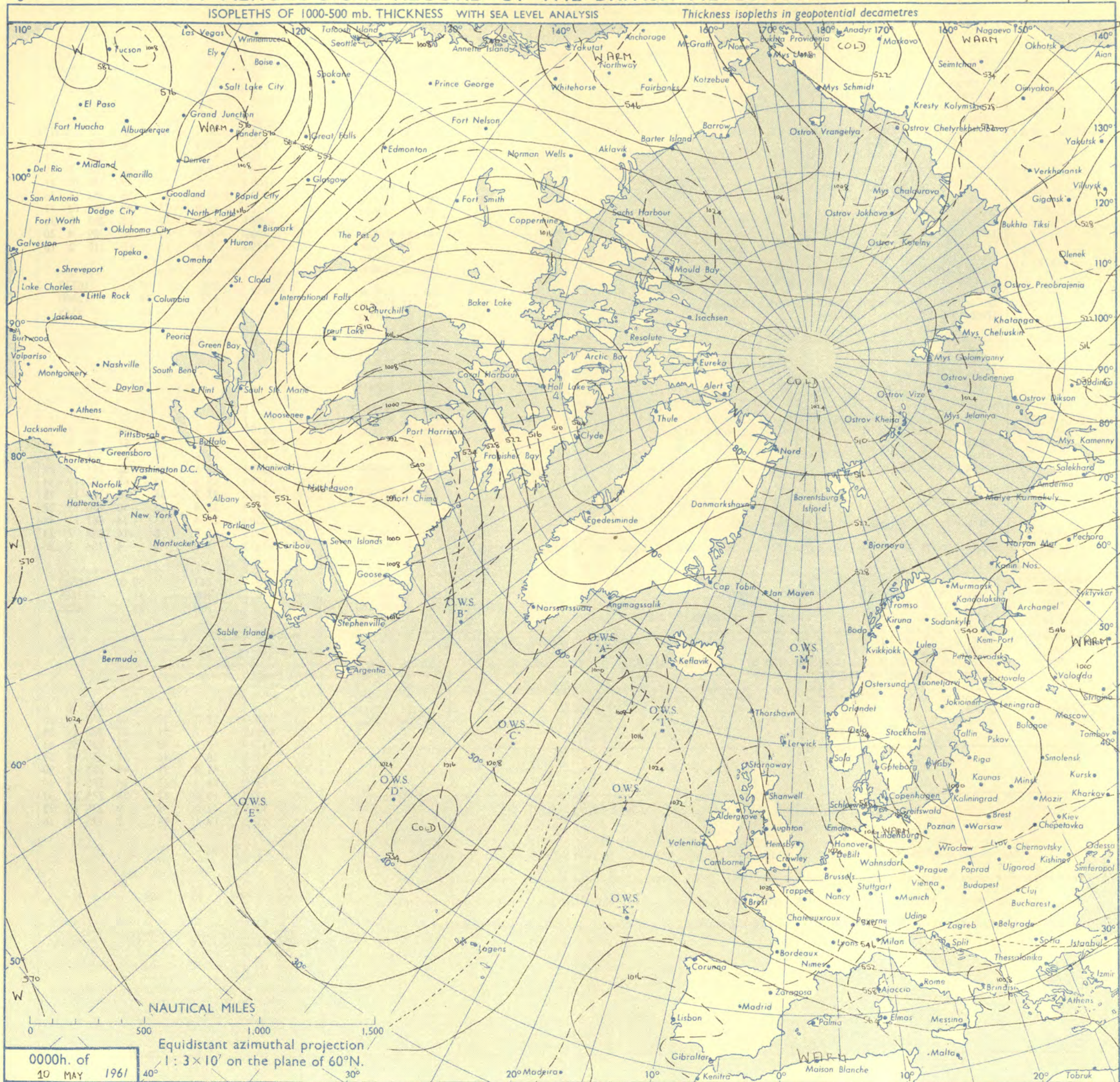
STATION		MAX. WIND
LERWICK 03005	095mb 330 14 12320/1 P21300m 010 12 23400m 050 10 11300/1 14600/1	350 69 09600m 350 82 08980m 330 65 11100m 320 75 10680m
STORNOWAY 03026	120mb 320 27 23100m 050 14 09310/0 10260/0 11630/1 12080/1 075mb 330 15 12570/1	310 103 10850m 310 87 11430m 300 74 11440m
SHANWELL 03170	P25800m 070 17 12750m 330 40 06070/0 10300/0 12060/1 12400/1 19100m 350 15 11520/0	340 120 09370m 320 106 10530m 330 87 10700m 330 77 10750m
ALDERGROVE 03917	120mb 320 28 058mb 050 15 17700m 320 20 13000m 320 59 13500/1 171mb 320 45 119mb 320 27 10830/0 12830/1	320 112 11280m 320 85 10560m 320 69 10840m 310 61 11080m
AUGHTON 03322	12900m 330 69 02960/0 10390/0 12090/1 13440/1 176mb 340 59 038mb 350 09	340 116 11280m 340 111 10660m 330 89 11080m 340 78 11220m
HEMSBY 03496	09050/0 10360/1 352mb 010 87 228mb 360 89 11700m 360 74 20400m 360 11 09760/0 12210/1	340 92 10010m 340 114 09260m 350 124 10190m 360 97 10940m
CRAWLEY 03774	080mb 340 21 19500m 020 17 06370/0 07150/0 11130/1 12030/1 11400m 350 92 06540/0 09730/0 10950/1 11360/1 11730/1 16800m 350 27 12640/1	340 128 09530m 350 126 10430m 350 125 10710m 360 96 10930m
CAMBORNE 03808	145mb 310 46 P19500m 360 15 15000m 340 38	330 87 11500m 330 75 11670m 330 63 11560m
VALENTIA 03953	00300m 000 00 00600m 000 00 13800m 310 42 888mb 160 08 733mb 010 04 357mb 310 24 263mb 280 35 139mb 290 36 040mb 060 12	
Ocean Weather Station 'I' 59°00'N 19°00'W	136mb 250 24 090mb 210 09 12600m 220 54 16200m 250 15 08600/0 12680/4 184mb 220 48 133mb 230 24 085mb 220 19 12900m 220 60 14700m 220 30 19200m 250 07 06050/0 08450/0 17600/1	230 84 11030m 220 84 10420m 220 99 10820m 230 102 10500m
Ocean Weather Station 'J' 52°30'N 20°00'W	960mb 190 29 847mb 200 43 827mb 200 44 553mb 210 57 512mb 210 64 468mb 210 72 00300m 190 42 00600m 200 28 910mb 190 29 764mb 200 46 582mb 210 60 560mb 210 59 482mb 200 74 374mb 200 68 00300m 180 23 00600m 200 26	200 96 06400m 200 76 04850m
LARKHILL 03743	02580/0 02250/0 12900/1	340 116 10800m 350 106 10500m

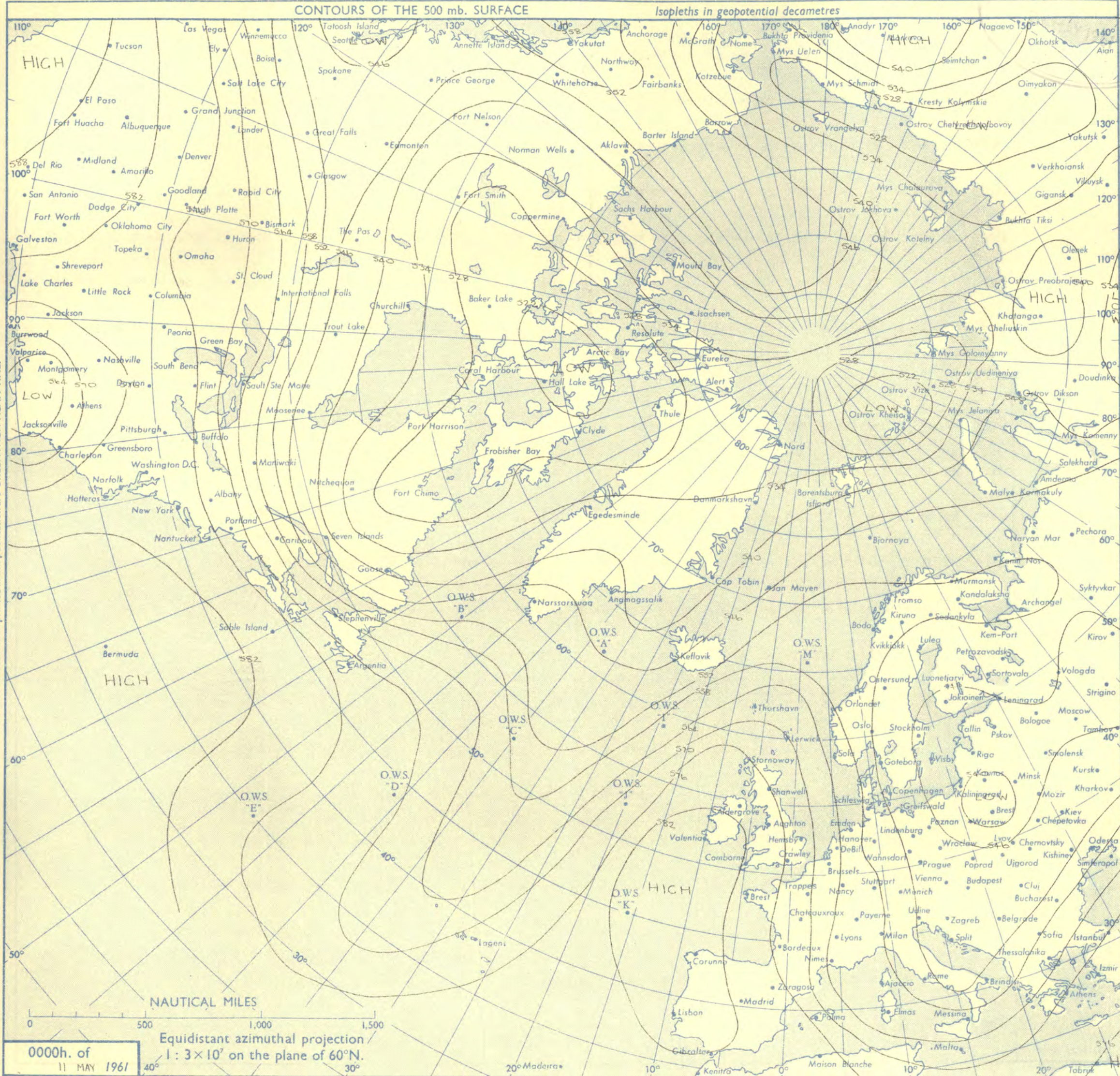
AVERAGE AND EXTREME VALUES 1951-55							
MAY							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		V _S
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22145	-50.1	-46	-55	...	...	(10)
60	19500	-50.3	-43	-60	102	2	11
100	16180	-51.4	-44	-62	283	3	13
150	13540	-51.0	-42	-62	288	7	19
200	11680	-53.8	-39	-69	288	10	27
300	9070	-48.8	-37	-56	281	11	36
400	7125	-35.0	-27	-49	282	10	32
500	5530	-23.2	-15	-38	283	8	26
700	2985	-7.0	1	-20	289	4	20
850	1450	0.9	11	-10	310	2	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		254	-57.8		10230		
Max.		479	-39		12800		
Min.		171	-69		5545		
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*		V _S
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22100	-52.2	-50	-58	85	9	11
60	19480	-52.8	-46	-62	69	1	10
100	16195	-53.8	-44	-61	284	5	14
150	13590	-53.3	-46	-65	284	10	22
200	11750	-55.3	-42	-67	282	15	34
300	9140	-47.7	-38	-56	274	15	45
400	7180	-33.4	-23	-48	270	13	38
500	5580	-21.4	-11	-34	267	11	31
700	3015	-5.3	6	-16	258	7	23
850	1470	3.0	15	-6	254	5	20
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		244	-58.0		10560		
Max.		405	-39		13685		
Min.		158	-72		6825		
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	...	...	...	...	180	2	8
60	19500	-59.3	-57	-66	270	6	10
100	16315	-60.2	-51	-67	270	24	26
150	13775	-59.1	-49	-71	275	40	43
200	11970	-58.9	-48	-67	275	48	53
300	9355	-43.8	-39	-49	275	42	50
400	7365	-28.2	-23	-38	275	34	40
500	5720	-16.0	-12	-28	275	27	32
700	3095	2.2	9	-9	275	16	23
850	1500	12.2	24	2	275	9	16
Tropo- pause		Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		117	-65.1	...	80	...	-71
		199	-60.9	365	...	-41	...

* 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.





HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

11 May, 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	102330	082	07	06	255	06	03	1582	04	12	3139	04	10	5713	20	25	7325	33	40	9286	48	++	11856	61	13666	56	16265	54	18548	55	20696	55								
	111130	082	10	10	222	09	08	1552	02	00	3113	02	07	5702	18	26	7330	30	37	9312	45	++	11911	60	13745	53	16366	52	18672	53	20843	53								
STORNOWAY 03026	102330	013	10	09	267	09	07	1603	04	02	3171	01	16	5756	19	24	7374	32	36	9340	47	++	11915	62	13701	56	16281	57	18543	56										
	111135	013	13	09	254	09	06	1590	05	01	3152	02	09	5749	18	23	7376	30	35	9352	47	++	11920	59	13747	54	16357	54	18643	55										
SHANWELL 03170	102330	005	03	03	276	06	01	1612	06	18	3174	02	07	5758	19	27	7379	31	35	9353	46	++	11940	61	13722	58	16302	55	18570	56	20719	55	23976	56						
	111130	005	18	08	261	14	05	1606	07	06	3186	01	09	5775	19	22	7399	31	37	9369	47	++	11949	61	13743	58	16324	55	18596	56	20735	56	23992	54						
ALDERGROVE 03917	102330	077	08	06	285	12	07	1633	06	03	3205	00	07	5803	19	24	7423	32	36	9393	48	++	11965	62	13739	58	16297	59	18539	58	20661	57								
	111130	077	18	08	283	14	08	1632	07	03	3207	00	06	5819	17	20	7449	30	33	9429	46	++	12024	61	13806	58	16375	57	18631	57	20761	57								
AUGHTON 03322	102330	056	08	07	289	09	04	1633	08	14	3205	01	20	5797	19	26	7415	31	39	9390	46	++	11981	62	13766	59	16342	55	18604	57										
	111130	056	15	06	284	11	04	1629	06	03	3209	00	08	5817	19	23	7436	31	35	9410	46	++	11989	63	13768	59	16337	57	18591	58	20724	56	23994	54						
HEMSBY 03496	102330	012	08	04	265	06	02	1589	05	14	3153	02	23	5731	20	25	7345	33	37	9310	48	++	11897	59																
	111130	012	11	05	262	07	04	1598	06	16	3161	04	05	5743	20	23	7355	33	37	9314	49	++	11888	59	13701	56	16283	56												
CRAWLEY 03774	110003	144	05	03	279	07	01	1605	05	09	3175	01	25	5760	20	30	7377	31	38	9351	46	++	11948	62	13753	57	16335	54	18603	56	20743	56	24015	53						
	111130	144	16	07	274	14	04	1618	06	16	3182	03	11	5766	19	26	7386	32	39	9354	47	++	11941	61	13727	57	16292	58	18543	59	20663	57								
CAMBORNE 03808	102330	088	07	06	289	10	05	1633	09	10	3217	01	27	5821	18	31	7445	31	44	9429	45	++	12022	62	13801	58	16356	60	18588	59	20709	57								
	111130	088	15	07	290	12	03	1636	10	10	3220	01	11	5826	18	27	7450	30	38	9437	45	++	12024	62	13795	59	16340	60	18556	61	20653	60	23867	57						
VALENTIA 03953	102334	014	08	06	293	13	07	1649	11	13	3249	04	04	5890	16	20	7530	28	31	9540	41	++	12180	60	++++	++	16580	56												
	111200	014	17	07	281	14	03	1638	12	18	3233	02	20	5860	15	23	7500	29	35	9500	43	++	12120	62	++++	62	16420	59	++++	60	++++	62								
Ocean Weather Station 'I' 59°00'N 19°00'W	110000		10	09	178	09	07	1506	03	05	3051	05	18	5610	22	30	7210	34	42	9170	49	++	11770	52	13630	52	16250	52	18550	54										
	111200		09	06	201	07	05	1521	02	02	3065	05	06	5640	19	26	7270	31	37	9250	45	++	11870	53	13740	49	16390	50	18720	51										
Ocean Weather Station 'J' 52°30'N 20°00'W	102300		11	10	207	10	09	1552	07	02	3128	02	15	5730	17	21	7360	28	34	9350	44	++	11950	58	13780	53	16400	54	++++	++	20800	++								
	111100		11	10	197	10	07	1539	07	08	3104	02	20	5690	19	23	7310	30	34	9280	47	++	11870	54	13740	50	16370	53	++++	++	20840	52	24160	++						

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 6567+	031	021	786	010 07 04 971 05 01 950 ++ 00 938 ++ 05 914 05 07 889 04 11 853 04 13 808 ++ 02 755 02 05 743 01 05 688 ++ 11 600 ++ 16 507 19 24 445 27 32 402 33 40 350 40 46 248 57 212 63 136 54 100 54 042 55	212	11500	63
	10 861++	027	017	742	970 07 05 956 08 06 920 ++ 02 835 01 01 818 ++ 06 797 04 04 704 ++ 07 579 12 16 538 ++ 24 494 18 26 333 40 46 223 60 215 59 193 61 187 56 155 53 100 52 030 54	223	11240	60
STORNOWAY 03026	02 764++	033	031	710	973 07 05 950 08 07 916 06 04 894 07 05 844 ++ 02 831 03 00 811 04 04 790 ++ 12 780 03 12 767 ++ 09 753 03 10 652 ++ 20 614 ++ 15 561 15 18 547 15 20 539 ++ 21 465 ++ 27 347 40 44 225 61 209 62 182 64 162 61 154 56 053 57	209	11620	62
	02 756++	031	029	758	016 11 07 960 06 04 928 05 03 896 08 06 832 05 01 723 03 06 698 02 09 692 02 11 586 10 16 558 11 18 488 ++ 25 338 40 45 314 45 307 45 273 54 218 63 213 60 134 52 057 54	218	11360	63
SHANWELL 03170	02 00900	034	034	748	025 07 04 001 06 01 948 08 03 871 07 14 776 ++ 26 746 ++ 09 733 01 12 690 ++ 07 670 ++ 08 658 ++ 13 642 06 11 620 ++ 12 566 ++ 18 539 ++ 19 524 ++ 23 493 ++ 28 473 ++ 28 408 ++ 33 390 ++ 40 364 36 43 343 40 46 213 62 181 63 135 55 100 55 030 56	213	11530	62
	02 15632	031	030	713	017 15 06 888 05 02 868 08 03 862 ++ 06 845 07 06 828 08 07 762 04 11 674 04 10 625 10 14 585 11 14 480 ++ 25 436 27 32 426 27 33 344 40 46 237 59 217 62 110 55 100 55 032 56 030 54	217	11460	62
ALDERGROVE 03917	01 00900	035	026	712 697	018 12 07 979 12 06 934 ++ 03 894 07 02 875 07 03 846 ++ 04 800 ++ 02 786 ++ 03 753 03 10 730 ++ 04 712 ++ 05 708 01 07 697 00 08 687 ++ 13 656 ++ 16 596 ++ 14 542 ++ 18 496 ++ 25 445 ++ 30 382 35 39 367 36 41 282 51 223 62 197 64 169 64 150 58 130 57 095 59 032 57	197	12040	64
	02 11531	034	024	696	008 14 08 919 08 05 883 ++ 02 880 09 03 819 05 02 802 ++ 05 796 06 04 710 ++ 04 642 03 10 572 10 13 508 16 19 340 ++ 44 333 41 224 60 171 64 144 56 044 57 039 54 035 58	171	13000	64
AUGHTON 03322	02 00900	035	028	723	984 11 01 953 09 03 911 ++ 02 904 07 00 868 09 12 816 07 14 714 ++ 23 678 03 16 667 04 12 612 ++ 13 493 20 27 461 24 28 399 ++ 39 342 40 46 220 60 182 63 140 56 098 55 060 57	182	12560	63
	02 11502	034	027	700	008 11 02 941 09 04 888 08 00 869 ++ 02 844 06 03 820 08 03 801 ++ 08 770 04 05 745 02 07 731 02 07 685 ++ 07 553 12 17 444 26 30 337 40 45 220 62 189 64 138 56 053 57 030 54	220	11400	62
HEMSBY 03496	02 655++	033	031	729	930 01 02 919 02 01 895 06 08 870 ++ 13 808 04 18 735 00 22 553 ++ 33 524 18 25 505 ++ 25 345 40 44 261 54 212 60 171 57	(212	11530	60)
	02 1557+	032	031	767	022 09 04 963 05 02 935 09 03 930 ++ 06 898 09 10 825 05 18 782 ++ 18 770 ++ 05 767 00 05 730 02 04 490 21 24 352 40 46 265 55 225 60 206 58 189 61 160 56 104 56 088 57	225	11110	60
CRAWLEY 03774	02 00900	035	017	716	008 07 01 967 06 02 927 06 00 874 02 04 848 05 11 816 06 15 628 07 31 554 ++ 35 489 ++ 30 407 31 38 338 ++ 46 230 58 200 62 177 58 111 55 052 56 030 53	200	11950	62
	03 00931	033	015	743	006 ++ 03 924 07 03 898 08 12 878 06 14 860 07 14 733 ++ 25 709 ++ 18 698 ++ 10 594 ++ 14 540 ++ 21 465 22 30 421 29 36 344 ++ 48 238 59 228 57 180 64 149 57 071 59 040 57	180	12600	64
CAMBORNE 03808	02 00900	036	025	692	010 10 07 978 11 01 950 05 01 926 ++ 03 897 06 01 871 10 08 822 ++ 16 722 03 26 609 08 35 499 18 31 452 25 38 351 37 49 225 60 171 65 157 58 129 57 095 60 040 57	171	12980	65
	02 11601	035	024	678	010 13 04 901 06 03 897 ++ 02 878 11 05 820 08 16 768 ++ 22 715 ++ 11 669 01 15 631 ++ 15 514 17 26 495 18 27 438 26 34 393 31 40 330 40 48 215 62 158 64 138 57 096 62 030 57	215	11580	62
VALENTIA 03953	02 15600	035	034	676	034 08 06 017 14 08 942 09 03 869 12 10 807 08 01 757 08 08 738 07 03 555 09 14 381 31 34 190 61 163 62 159 59 134 53 108 53 090 59	190	12500	61
	03 10932	034	032	675	008 14 03 954 11 01 926 09 07 868 13 16 591 07 17 520 12 21 387 31 38 331 37 47 199 62 105 59 071 60 061 57 044 62	199	12000	62
Ocean Weather Station 'I' 59°00'N 19°00'W	01 3553+	022	022	793	022 10 09 962 06 05 913 05 05 830 02 11 684 06 19 622 13 26 530 19 26 354 40 47 261 56 243 58 206 52 092 52 060 53	243	10500	58
	02 756++	025	025	813	964 05 03 883 02 01 873 03 01 834 ++ 06 799 01 03 745 04 05 721 04 05 654 08 10 618 12 13 601 09 12 576 ++ 19 410 30 36 329 40 45 263 52 226 58 180 51 096 49 067 52 060 53	226	11000	58
Ocean Weather Station 'J' 52°30'N 20°00'W	02 854++	024	024	722	024 11 10 912 05 04 897 09 04 787 05 11 664 05 17 613 06 12 482 19 23 365 34 39 272 50 225 59 154 56 148 51 060 57	225	11200	59
	02 854++	023	023	755	920 04 03 900 10 02 776 01 19 642 06 21 577 14 20 550 14 18 276 51 232 60 182 51 135 49 115 54 035 51	232	10900	60

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb	750mb	700mb	600mb	500mb	400mb	300mb	250mb	200mb	150mb	100mb	70mb	50mb	30mb	20mb	10mb
LERWICK 03005	102330	T	230 09	+++ ++	270 14	290 18	300 18	310 27	310 35	320 33	310 47	310 48	310 57	310 59	320 30	340 20	340 16	010 15			
	110530	P	240 15	+++ ++	270 16	270 20	270 21	290 28	290 31	290 34	290 58	300 69	310 61	300 60							
	111130	T	270 14	+++ ++	280 20	270 19	280 30	290 31	300 35	290 41	290 43	300 77	310 73	300 68	300 40	310 20	P 360 22	010 11			
	111730	P	270 14	+++ ++	280 21	280 19	280 31	280 33	280 33	280 36	290 62	300 78	290 84	290 50	300 25	310 17	320 14	020 12	030 18		
STORNOWAY 03026	102330	T	220 08	240 20	240 25	240 26	270 28	270 29	280 32	290 39	280 43	290 51	290 53	290 67	300 34	320 21	340 11				
	110530	P	220 03	+++ ++	260 22	280 24	290 23	270 29	270 40	280 42	280 52	280 51	280 65	280 57	300 30	310 21	320 10				
	111130	T	250 17	250 21	260 24	280 29	280 32	260 38	280 48	280 54	270 50	270 56	280 67	280 52	290 27	310 19	360 10				
	111730	P	170 16	+++ ++	250 25	260 27	260 31	260 36	260 45	270 57	270 47	270 53	270 59	280 62	290 27	300 23					
SHANWELL 03170	102330	T	000 00	270 07	280 08	300 13	320 21	320 23	320 32	330 40	330 49	330 51	330 56	320 65	320 42	330 25	P 360 17	360 14	050 11	070 12	
	110530	P	190 02	+++ ++	300 11	310 12	300 23	300 24	310 35	320 39	330 40	320 49	320 52	310 59	320 30	340 25	340 19	030 15			
	111130	T	270 07	290 11	320 08	320 13	320 23	310 33	310 44	310 46	310 37	310 43	310 53	310 55	310 35	340 17	360 14	010 12	080 13		
	111730	P	110 04	+++ ++	300 11	300 12	300 22	300 28	290 41	300 47	290 41	290 45	310 51	300 60	310 32	320 22	350 15	020 12			
ALDERGROVE 03917	102330	T	110 04	+++ ++	290 08	310 11	300 14	310 17	320 19	310 28	290 36	320 38	320 45	310 42	320 33	330 19	360 13	010 13			
	110530	P	180 03	+++ ++	290 12	280 13	290 14	300 17	300 26	310 24	310 43	300 29	300 46	300 40	310 29	330 26					
	111130	T	310 03	+++ ++	280 08	280 12	300 11	310 15	290 28	300 29	300 26	290 37	290 49	290 49	300 35	330 21	360 14	020 12			
	111730	P	240 04	+++ ++	250 09	270 14	280 16	260 23	260 25	290 32	280 33	280 33	280 46	280 44	290 29	330 27	340 15				
AUGHTON 03322	102330	T	000 00	330 08	340 06	350 11	340 22	350 25	350 30	340 38	350 48	340 47	340 56	340 54	330 45	340 27	010 18	P 360 14	030 11		
	110530	P	000 00	+++ ++	340 12	320 13	320 15	350 20	340 31	350 37	350 35	340 47	340 55	340 63	340 31	340 28	340 17				
	111130	T	270 11	310 11	340 14	340 16	330 20	330 22	340 30	340 30	340 33	330 44	330 52	320 52	330 35	350 18	020 17	340 10	070 11	P 090 11	
	111730	P	240 05	+++ ++	320 14	340 15	330 14	360 15	330 30	330 36	330 31	320 37	320 47	320 49	330 30	340 26	350 14				
HEMSBY 03496	102330	T	360 12	350 20	360 27	360 36	010 35	360 36	350 40	350 48	360 61	360 73	360 89	360 77							
	110530	P	350 10	+++ ++	350 27	360 34	010 36	360 44	360 54	360 56	360 63	360 72	360 83	360 70	350 40	360 26	010 20	030 18			
	111130	T	340 10	340 17	010 25	360 29	360 33	360 37	360 43	360 64	360 67	360 71	350 82	360 63							
	111730	P	030 05	+++ ++	340 19	340 18	350 19	350 28	360 44	350 57	360 56	360 60	350 73	340 70	340 35	360 30	010 18	010 12			
CRAWLEY 03774	102330	P	360 05	+++ ++	010 26	010 32	020 30	010 32	360 38	360 45	010 53	360 68	360 73	350 63	350 44	360 39	360 22				
	110530	P	000 00	+++ ++	010 23	010 26	010 25	010 30	010 45	010 49	010 60	360 65	360 70	360 67	350 42	360 32	360 26				
	111130	P	340 09	+++ ++	360 12	010 17	010 23	010 30	010 42	010 51	010 47	360 59	360 66	350 64	350 42	360 18	010 18	020 13	060 12	070 09	110 10
	111730	P	360 05	+++ ++	010 10	020 12	010 18	360 33	010 46	360 49	360 43	360 47	350 62	340 65	350 38	350 32	010 16				
CAMBORNE 03808	102330	T	000 00	070 03	070 04	060 16	050 19	040 13	020 20	020 36	360 34	350 35	340 43	340 42	330 41	350 26	030 12	030 14			
	110530	P	000 00	+++ ++	150 03	170 09	060 15	030 18	020 16	020 24	020 33	350 26	340 34	330 39	350 35						
	111130	T	340 06	+++ ++	220 06	090 08	060 09	040 13	040 18	020 26	030 26	350 26	330 30	330 31	330 36	350 22	010 15	040 10	060 15		
	111730	P	010 10	+++ ++	100 05	010 06	350 05	020 07	020 11	010 16	350 10	330 24	320 27	310 36	320 37	340 22	010 16				
VALENTIA 03953	102334	T	000 00	120 05	+++ ++	170 11	+++ ++	160 06	+++ ++	290 03	290 13	290 33	+++ ++	280 32	+++ ++	310 15					
	111200	T	170 12	160 14	+++ ++	160 18	+++ ++	160 15	+++ ++	210 15	220 17	240 27	+++ ++	250 32	260 28	280 17	340 08	020 10			
Ocean Weather Station 'I' 59°00'N 19°00'W	110000	T	220 23	+++ ++	220 41	220 39	220 42	220 39	220 48	230 60	230 81	220 96	220 105	220 59	220 33	220 15	170 09				
	110600	P	220 20	+++ ++	220 30	220 32	230 33	230 40	230 54	220 52	230 78	230 84	230 99	230 66	230 48						
	111200	T	270 14	+++ ++	250 17	220 27	220 31	230 36	230 46	220 51	230 75	230 99	230 100	230 50	230 33	230 15	300 27				
	111800	P	315 10	+++ ++	280 07	250 17	240 22	240 25	230 48	220 51	230 63	240 92	230 65	230 39	250 25	270 21					
Ocean Weather Station 'J' 52°30'N 20°00'W	102300	T	150 13	160 16	+++ ++	180 29	+++ ++	190 45	+++ ++	200 75	200 69	200 59									
	110600	P	180 10	+++ ++	180 24	190 26	190 28	190 31	190 53	190 60	190 51										
	111100	T	160 17	160 19	180 25	180 33	190 32	200 34	200 50	200 60	190 59	190 57									
	111800	P	135 10	+++ ++	200 11	190 20	190 34	190 35	210 30	210 28	210 50										
LARKHILL 03743	110630	P	000 00	+++ ++	350 10	010 12	010 21	010 29	360 42	360 48	360 44	360 52	360 59	350 57	350 38						
	111015	P	320 07	+++ ++	340 09	360 17	010 16	010 23	360 37	010 43	010 35	360 46	350 59	340 59	350 41	350 35	010 23	350 24			

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					
111041	65.7°N 10.5°W	013	004	832	061	07 03	104	05 02	963	02 05	1423	01 15	1905	01 24	05 22	2954	08 24	11 24	4133	16 28	22 40	5471	26 40
Cloud :— 3/8 St. 1100 to 1400 ft. 1/8 Sc. 2200 to 2500 ft. 1/8 Ac. 12000 to 13000 ft. 1/8 Cs. 20000 ft. to TNR.																							
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					
111202	65.0°N 01.0°W	019	011	832	061	07 07	149	06 03	012	03 02	1472	01 01	1957	02 13	05 19	3005	07 39	11 37	4181	15 39	23 36	5535	25 43
Cloud :— 7/8 St. HNG to 700 ft. 3/8 Cl. 25000 ft. to TNG 7/8 Sc 4000 to 4500 ft.																							
Inversion Levels :—										Isothermal Levels :— 1011 to 966mb 07°C													
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	13200m 320 37 P22800m 060 07 06850/0 10950/1 11400/1 11850/1	310 64 11330m 320 75 11020m 300 79 09230m 290 87 10720m
STORNOWAY 03026	057mb 340 16 061mb 360 13 17400m 330 16 12410/1 13340/1	290 69 11510m 290 72 11170m 280 74 11120m 280 66 11570m
SHANWELL 03170	P27300m 050 09 21600m 030 13 13240/1 P25200m 060 08 12970/1	320 66 12000m 320 64 11160m 310 61 11160m 300 67 11330m
ALDERGROVE 03917	037mb 040 12 06370m 320 30 16800m 340 21 08190/1 09080/0 13800/1 038mb 060 09 13370/1	
AUGHTON 03322	12910/1 19800m 010 14 03660/0 13460/1	340 68 11420m 340 65 11880m
HEMSBY 03496	23000m 070 15 179mb 010 48 12530m 350 53 23220m 140 02 11810/1	360 92 10630m 360 88 11000m 350 84 10710m 340 78 11140m
CRAWLEY 03774	19600m 010 17 20100m 030 18 12000/1 13790/1 28800m 040 06 33000m 130 13 35700m 330 05 02900/0 12850/1 33420/2 19200m 010 21	360 83 11320m 360 76 11260m 360 73 11220m 340 69 11830m
CAMBORNE 03808	044mb 040 14 15300m 340 35	
VALENTIA 03953	942mb 130 09 757mb 190 08 555mb 350 02 159mb 270 31 134mb 300 30 090mb 310 15 926mb 160 15 591mb 190 21 520mb 200 15 331mb 230 25 061mb 360 10 044mb 030 09	
Ocean Weather Station 'I' 59°00'N 19°00'W	228mb 220 83 068mb 170 10 212mb 230 67 088mb 270 21 067mb 290 21 03600m 240 35 10800m 230 48 18000m 310 24 07700/0 09100/1 10380/1 12350/1	220 113 10330m 230 102 11080m 230 105 09990m 240 99 08950m
Ocean Weather Station 'J' 52°30'N 20°00'W	897mb 180 27 787mb 180 33 664mb 200 60 613mb 200 65 482mb 200 82 272mb 200 56 00300m 170 15 00600m 170 20 08400m 190 48 920mb 180 24 900mb 180 25 642mb 200 44 550mb 200 54 276mb 190 55 00300m 170 12 00600m 190 11 08100m 220 52	200 88 06350m 190 64 06200m
LARKHILL 03743	15300m 340 26	350 70 11100m 350 68 11200m

NOTES ON THE AEROLOGICAL SITUATION

The trough over eastern Canada has moved east and is deepening. The down-wind ridge over the western Atlantic is also moving east and amplifying. The trough in mid-Atlantic continues to move slowly east and relax. The high centre off northwest Spain is almost stationary but the ridge extending northwards to northern Scandinavia has moved east. The Baltic low has moved slowly east. The trough southwards to the central Mediterranean has remained almost stationary but has deepened.

AVERAGE AND EXTREME VALUES 1951-55
MAY

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	22145	-50.1	-46	-55	...	...
60	19500	-50.3	-43	-60	102	2
100	16180	-51.4	-44	-62	283	3
150	13540	-51.0	-42	-62	288	7
200	11680	-53.8	-39	-69	288	10
300	9070	-48.8	-37	-56	281	11
400	7125	-35.0	-27	-49	282	10
500	5530	-23.2	-15	-38	283	8
700	2985	-7.0	1	-20	289	4
850	1450	0.9	11	-10	310	2

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9
60	19480	-52.8	-46	-62	69	1
100	16195	-53.8	-44	-61	284	5
150	13590	-53.3	-46	-65	284	10
200	11750	-55.3	-42	-67	282	15
300	9140	-47.7	-38	-56	274	15
400	7180	-33.4	-23	-48	270	13
500	5580	-21.4	-11	-34	267	11
700	3015	-5.3	6	-16	258	7
850	1470	3.0	15	-6	254	5

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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

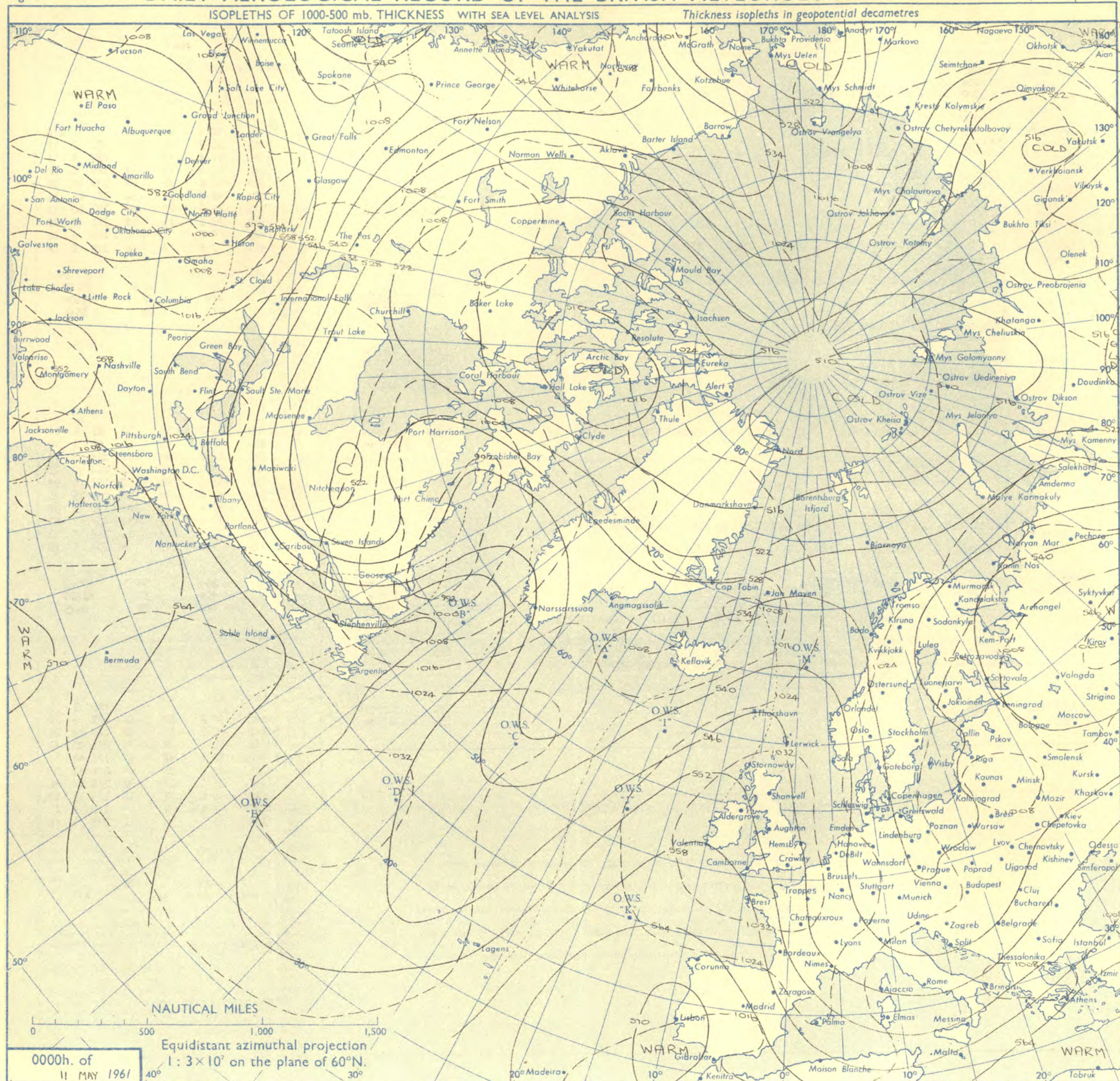
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	...	...	...	...	180	2
60	19500	-59.3	-57	-66	270	6
100	16315	-60.2	-51	-67	270	24
150	13775	-59.1	-49	-71	275	40
200	11970	-58.9	-48	-67	275	48
300	9355	-43.8	-39	-49	275	42
400	7365	-28.2	-23	-38	275	34
500	5720	-16.0	-12	-28	275	27
700	3095	2.2	9	-9	275	16
850	1500	12.2	24	2	275	9

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	117	-65.1	...	80	...	-71
Lower	199	-60.9	365	...	-41	...

* 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.

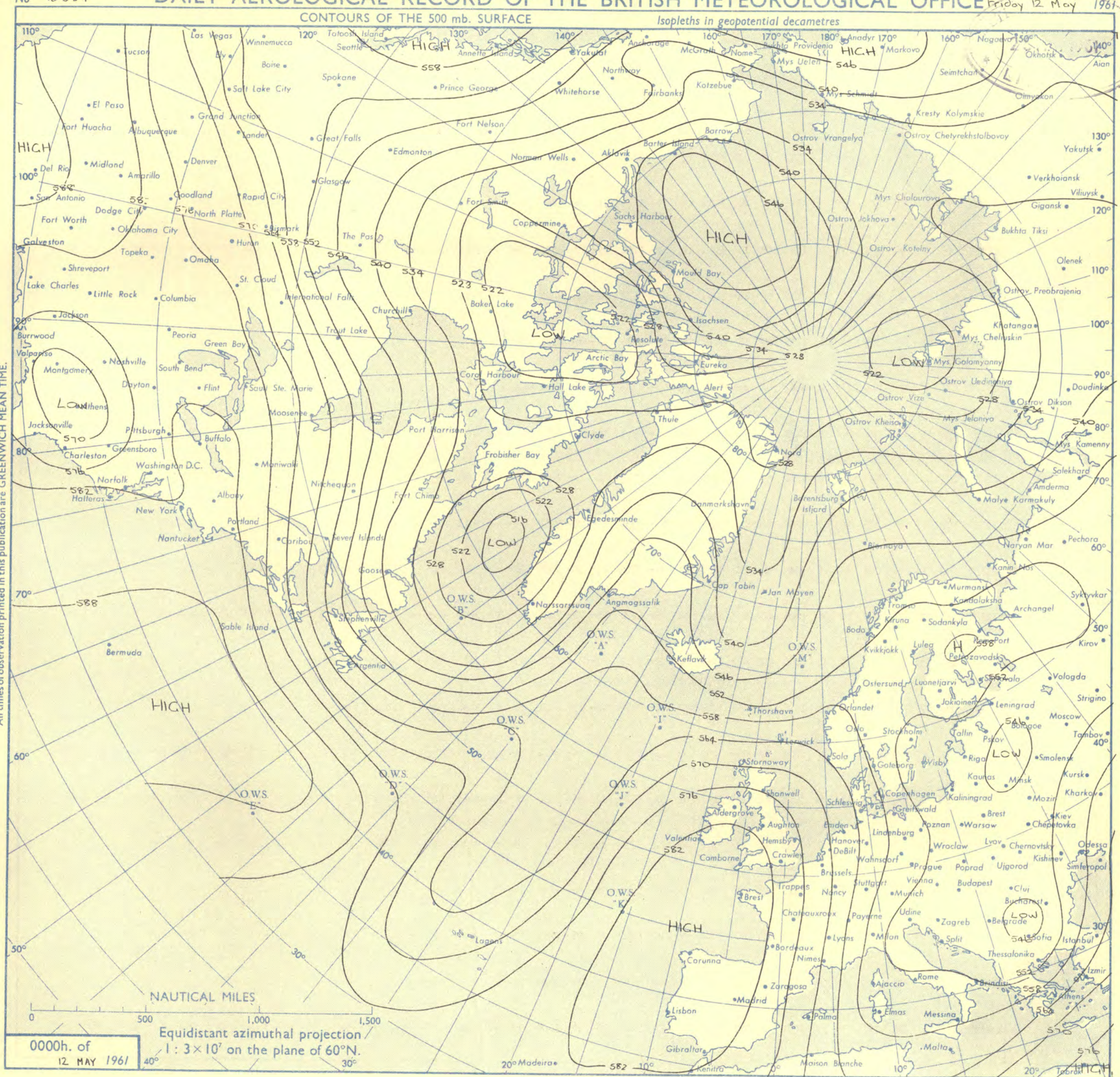
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

12 May 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	gpm °C °C
LERWICK 03005	112333	082 09 09	183 08 06	1512 03 00	3064 05- 10-	5639 20- 28-	7257 31- 38-	9233 47- ++	11820 55-	13680 52-				
	121130	082 10 06	149 08 04	1465 02- 03-	3002 07- 18-	5561 22- 37-	7161 34- 47-	9116 49- ++	11738 50-	13622 49-	16274 50-			
STORNOWAY 03026	112330	013 10 07	219 08 05	1553 07 23-	3120 03- 36-	5703 19- 36-	7325 30- 35-	9304 46- ++	11880 61-	13710 55-				
	121130	013 12 07	192 09 05	1515 02 00	3065 06- 10-	5632 21- 26-	7246 32- 38-	9212 48- ++	11801 54-	13659 51-	16291 53-	18590 54-		
SHANWELL 03170	112330	005 11 04	228 13 04	1583 08 13-	3160 00 10-	5762 19- 27-	7379 32- 37-	9353 46- ++	11923 64-	13745 55-	16346 55-	18620 56-	20768 55-	24044 54-
	121130	005 16 05	192 13 02	1532 05 14-	3096 03- 28-	5672 22- 28-	7285 32- 36-	9255 47- ++	11826 57-	13662 53-	16284 55-	18575 55-	20733 54-	24037 52-
ALDERGROVE 03917	112330	077 09 06	245 13 08	1599 09 11-	3175 01- 23-	5775 18- 26-	7395 32- 37-	9363 46- ++	11931 63-					
	121130	077 16 08	214 13 07	1561 07 12-	3134 02- 23-	5726 19 38-	7351 30- 44-	9325 48- ++	11870 62-	13685 53-	16267 57-	18530 57-		
AUGHTON 03322	112330	056 09 06	256 14 07	1611 10 03-	3196 00 07-	5805 18- 22-	7430 31- 35-	9407 45- ++	11997 64-	13781 57-	16358 57-	18619 58-		
	121130	056 16 02	222 13 00	1574 09 16-	3153 00 32-	5745 20- 47-	7357 33- ++	9333 46- ++	11905 62-	13715 56-	16303 56-	20715 55-		
HEMSBY 03496	112330	012 07 06	245 10 07	1586 04 03	3157 03- 11-	5736 20- 26-	7347 33- 39-	9302 48- ++	11852 62-	13647 58-				
	121130	012 18 08	211 15 06	1565 07 01	3136 01- 11-	5729 19- 30-	7336 34- 40-	9302 47- ++	11863 62-	13632 55-	16275 55-	18535 58-	20670 55-	
CRAWLEY 03774	112330	144 08 07	256 11 08	1608 06 00	3189 01- 09-	5796 18- 22-	7426 30- 35-	9407 45- ++	12004 63-	13800 59-	16370 57-	18633 57-		
	121130	144 20 08	229 17 05	1586 07 04-	3165 00 13-	5757 20- 26-	7370 33- 38-	9345 45- ++	11922 63-	13726 54-	16306 58-	18557 57-		
CAMBORNE 03808	112330	088 09 06	264 14 05	1626 10 15-	3214 02 10-	5828 18- 23-	7451 31- 38-	9436 46- ++	12020 65-	13802 58-	16350 61-	18574 60-	20679 59-	
	121140	088 17 07	241 14 06	1601 10 14-	3190 02 13-	5792 20- 28-	7412 32- 39-	9393 45- ++	11975 64-	13757 56-	16311 60-	18551 58-	20669 57-	23924 55-
VALENTIA 03953	112330	014 12 04	253 11 04	1605 12 19-	3197 02 32-	5820 17- 36-	7450 29- 42-	9440 43- ++	12050 63-					
	121200	014 17 09	204 14 07	1563 11 12-	3156 02 22-	5770 16- 36-	7410 28- 47-	9410 43- ++	12010 63-	++++	++	16370 58-		
Ocean Weather Station 'I' 59°00'N 19°00'W	120000	08 03 200	07 03 1519	02 01 3063	06- 08- 5630	21- 32- 7230	34- 44- 9190	49- ++	11790 53-	13660 52-	16290 51-	18600 54-		
	121200	08 07 176	06 05 1499	03 00 3047	06- 10- 5620	21- 28- 7230	32- 44- 9200	47- ++	11820 52-	13690 51-	16340 50-	18660 52-		
Ocean Weather Station 'J' 52°30'N 20°00'W	112300	11 10 175	10 08 1513	10 12- 3096	01- 09- 5690	18- 21- 7310	30- 34- 9270	50- ++	11880 53-	13750 51-	16380 53-			
	121100	11 11 130	10 09 1469	08 02- 3059	01 13- 567	17- 26- 7300	29- 34- 9290	45- 52-	11910 48-	13810 47-	16480 49-	++++	++	21050 46-

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	63 870++	022	012	787	001 08 06 828 02 01- 595 11- 17- 337 40- 48- 246 57- 218 61- 209 56- 176 52- 114 51-	218	11260	61-
	02 785++	018	008	886	004 08 04 928 02 00 845 03- 04- 787 02- 09- 700 ++ 18- 598 12- 28- 433 31- 45- 373 37- 50- 279 52- 259 55- 193 49- 100 50- 072 55-	259	10060	55-
STORNOWAY 03026	03 755++	027	025	732	922 03 02 904 08 06- 900 ++ 11- 882 ++ 17- 841 07 26- 765 02 34- 493 ++ 36- 437 ++ 32- 394 31- 36- 337 40- 46- 210 64- 185 55- 153 55- 116 51-	210	11570	64-
	02 555++	023	022	780	009 10 06 950 05 03 871 02 00 793 01 01- 749 ++ 09- 713 05- 10- 699 ++ 10- 663 07- 11- 594 ++ 16- 536 17- 22- 410 30- 36- 347 40- 46- 331 41- 321 45- 313 45- 272 54- 239 59- 188 52- 121 51- 067 54-	239	10660	59-
SHANWELL 03170	02 00900	028	027	696	016 13 04 000 ++ 04 971 13 02 932 11 04- 917 11 06- 848 ++ 13- 730 02 06- 602 08- 20- 406 32- 37- 335 40- 45- 206 66- 171 54- 100 55- 030 54-	206	11740	66-
	02 10938	023	022	742	004 13 02 923 ++ 01 883 05 06- 849 ++ 14- 827 05 17- 790 ++ 22- 589 ++ 38- 556 15- 33- 497 22- 28- 439 27- 31- 340 40- 45- 228 63- 206 57- 129 51- 105 54- 099 55- 092 53- 043 54- 040 51- 039 53- 035 50- 030 52-	228	11000	63-
ALDERGROVE 03917	03 15631	030	020	712	017 12 09 009 ++ 08 990 ++ 09 967 13 05 913 ++ 06 906 09 04 880 10 05- 873 ++ 09- 660 ++ 27- 639 05- 24- 580 ++ 21- 518 16- 24- 378 35- 40- 343 ++ 45- 262 54- 211 65- 161 55-	211	11590	65-
	04 00901	026	016	719	002 13 08 945 09 06 917 09 05- 827 07 13- 766 03 19- 750 13 19- 676 04- 26- 613 09- 30- 557 12- 32- 496 19- 38- 404 29- 43- 261 57- 215 66- 150 53- 055 59-	215	11430	66-
AUGHTON 03322	02 00900	031	024	703	010 14 08 992 ++ 05 925 10 06 899 ++ 01 881 09 04 848 10 03- 768 05 06- 740 03 03- 709 ++ 05- 696 ++ 09- 662 ++ 14- 640 ++ 11- 598 08- 12- 497 18- 22- 369 36- 40- 274 49- 207 64- 155 59- 147 55- 060 57-	207	11780	64-
	03 00905	027	020	700	008 13 00 988 ++ 00 974 ++ 01- 953 ++ 05 927 10 05 915 ++ 05 903 08 00 883 10 12- 749 04 27- 400 33- 381 33- ++ 315 43- 222 63- 206 63- 143 54- 038 56-	222	11260	63-
HEMSBY 03496	02 15600	030	029	730	020 ++ 06 005 ++ 07 992 10 05 976 10 05 957 10 02 934 10 05 919 ++ 04 882 ++ 04 845 03 02 826 ++ 11- 800 06 14- 794 ++ 15- 761 03 07- 717 ++ 08- 687 ++ 12- 672 05- 12- 652 ++ 13- 636 08- 12- 589 13- 15- 578 12- 15- 539 15- 19- 513 18- 24- 433 ++ 33- 414 ++ 38- 360 40- 45- 346 40- 212 66- 199 61- 174 62- 161 58- 115 56-	212	11500	66-
	03 10932	025	024	731	008 15 06 978 ++ 06 949 ++ 02 908 09 00 828 06 01 731 00 07- 692 ++ 13- 681 02- 16- 632 ++ 24- 533 ++ 36- 497 20- 31- 404 34- 40- 377 35- 41- 347 40- 46- 307 45- 216 65- 168 56- 099 55- 064 58- 040 55-	216	11390	65-
CRAWLEY 03774	01 00900	031	014	708	996 12 09 969 13 06 950 ++ 03 858 06 01 839 07 01- 773 ++ 09- 760 05 06- 690 02- 09- 606 ++ 12- 546 13- 16- 351 38- 43- 306 44- 199 64- 169 58- 153 60- 141 56- 058 57- Pressure doubtful above 060 mb	199	12040	64-
	03 11583	027	010	706	002 18 06 920 11 04 869 ++ 02 843 06 07- 780 ++ 07- 773 05 09- 750 ++ 14- 735 ++ 07- 712 ++ 09- 700 ++ 13- 685 ++ 12- 659 ++ 20- 615 ++ 15- 573 ++ 18- 392 34- 39- 374 35- 40- 337 ++ 45- 294 46- 215 64- 189 63- 152 54- 105 58- 077 58- 054 55-	215	11490	64-
CAMBORNE 03808	02 00900	032	021	677	017 14 10 000 14 05 961 12 07 923 14 05- 848 10 15- 788 07 14- 770 06 08- 730 04 12- 636 ++ 11- 561 12- 16- 400 31- 38- 387 31- 38- 331 40- 47- 206 65- 142 57- 098 61- 049 59- 036 55-	206	11860	65-
	02 00902	029	018	683	010 15 06 963 12 04 950 ++ 02- 937 14 05- 871 10 13- 833 10 14- 746 ++ 09- 698 01 13- 622 ++ 14- 525 17- 25- 333 40- 46- 235 59- 200 64- 167 63- 151 56- 126 60- 030 55-	200	11980	64-
VALENTIA 03953	05 00902	030	029	673	015 13 05 952 08 01 912 11 08- 875 12 16- 832 12 23- 566 09- 42- 442 25- 38- 373 31- 44- 346 37- 50- 317 40- 205 63- 192 61- 162 61- 131 57-	205	11900	63-
	05 00902	024	023	680	000 14 07 960 11 02 920 12 05- 818 10 15- 742 05 19- 623 05- 27- 485 17- 37- 285 46- 215 62- 185 64- 147 57- 118 55- 099 59- 088 57- 073 57-	215	11500	62-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 4563+	024	024	811	932 01 00 907 03 02 824 01 00 790 02- 03- 759 02- 03- 690 ++ 09- 671 09- 13- 652 09- 16- 639 ++ 20- 611 12- 22- 598 11- 22- 353 40- 50- 268 54- 248 56- 228 53- 124 51- 100 51- 063 54-	248	10400	56-
	60 673++	021	021	796	953 03 02 905 04 02 775 01- 04- 689 07- 11- 669 06- 21- 621 ++ 32- 560 ++ 22- 501 21- 28- 382 34- 47- 340 40- 248 56- 165 53- 107 49- 070 52-	248	10500	56-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 6562+	021	021	710	893 04 00 857 10 13- 792 06 06- 618 09- 12- 565 12- 15- 427 27- 30- 377 33- 37- 265 58- 250 53- 203 54- 184 49-	265	10100	58-
	10 862++	015	015	690	926 07 04 868 03 02 841 10 04- 800 07 00 725 03 11- 600 07- 19- 393 30- 34- 307 44- 50- 238 59- 205 48- 130 47- 115 50- 040 46-	238	10700	59-

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	112333	T	240 19	+++ ++	260 27	260 29	260 33	270 40	290 39	280 45	280 63	280 76	280 78	290 48	290 24						
	120530	P	250 22	+++ ++	290 30	290 32	280 33	280 38	280 49	280 61	280 71	280 85	280 82	290 46	290 26						
	121130	T	280 22	+++ ++	300 24	300 23	300 31	300 35	290 36	290 43	290 57	280 69	290 63	290 47	300 25	320 17					
	121731	P	328 20	+++ ++	320 28	310 33	310 35	310 50	310 51	310 56	310 74	310 80	300 71	310 45	320 19	320 11	330 12	030 11	040 07		
STORNOWAY 03026	112330	T	000 00	240 20	250 27	260 27	270 38	260 42	270 46	270 58	260 55	270 58	270 67	270 57	290 27						
	120530	P	250 10	+++ ++	270 22	280 25	270 28	270 34	280 39	270 48	270 60	280 67	270 71	280 41	300 32	300 17					
	121130	T	260 13	+++ ++	280 13	300 11	270 33	280 32	280 42	280 46	280 56	270 71	280 56	280 40	300 29	300 17					
	121740	P	320 06	+++ ++	280 07	290 09	300 16	300 26	280 34	300 33	290 40	300 47	290 59	290 42	300 26	310 19	330 10	020 09			
SHANWELL 03170	112330	T	250 09	+++ ++	270 20	270 20	280 24	280 30	280 42	280 47	280 53	290 46	290 55	290 64	320 27	320 20	010 14	030 10	070 12		
	120530	P	270 10	+++ ++	280 31	280 31	280 31	290 29	290 31	280 42	280 49	290 46	290 56	290 55	310 23	320 21	350 14				
	121130	T	280 12	+++ ++	280 14	300 24	280 23	270 26	280 36	280 46	280 49	290 57	280 71	300 43	320 32	320 16	020 12	100 07	070 14	070 12	
	121730	P	080 08	+++ ++	290 16	290 16	290 20	280 26	290 40	290 50	290 66	290 75	290 86	300 44	300 27	320 23					
ALDERGROVE 03917	112330	T	000 00	+++ ++	240 14	270 16	260 18	270 26	260 34	260 37	270 40	270 37	270 46	280 50	300 30	320 19	360 13				
	120530	P	220 03	+++ ++	240 13	240 21	240 26	260 33	260 43	260 45	270 45	280 41	280 46	280 48	290 35	320 21	010 13				
	121130	T	220 08	+++ ++	260 06	270 22	260 34	260 36	260 44	260 39	280 44	290 51	300 60	290 55	300 27	320 16	020 13	040 06			
	121730	P	070 07	+++ ++	210 12	260 20	260 31	270 31	280 25	280 26	280 41	280 43	270 52	280 50	280 27	310 16	360 13				
AUGHTON 03322	112330	T	000 00	300 08	310 08	310 07	290 14	290 17	300 29	310 35	310 38	310 36	310 45	310 46	310 35	330 23	010 14				
	120530	P	080 03	+++ ++	270 12	270 18	270 19	300 23	290 32	290 33	290 41	300 41	300 48	300 48	310 36	310 21	320 11				
	121130	T	250 12	+++ ++	270 14	280 19	280 26	280 30	280 35	280 43	290 42	290 47	290 47	300 49	300 34	310 16	350 07	020 10			
	121730	P	290 11	+++ ++	270 16	280 21	280 28	280 38	280 41	280 44	290 43	300 51	290 57	290 53	310 31						
HEMSBY 03496	112330	T	210 07	280 06	250 14	360 23	350 28	350 34	350 42	350 50	340 50	350 50	340 55	340 61							
	120530	P	250 04	+++ ++	300 16	310 12	330 13	330 27	330 35	340 42	340 50	330 51	330 55	330 60	330 32	340 26					
	121130	T	010 14	+++ ++	320 18	330 14	320 23	320 27	320 38	320 46	320 44	320 46	320 53	320 49	340 30	350 21	350 10	050 06			
	121730	P	170 03	+++ ++	270 14	300 23	310 27	310 30	310 44	320 47	310 43	320 56	330 67	320 54	340 33	330 22	010 15				
CRAWLEY 03774	112330	T	120 05	+++ ++	360 10	360 13	350 27	010 26	010 42	360 43	350 39	340 48	350 56	340 61	340 61	360 30	020 14	030 08			
	120537	P	000 00	+++ ++	290 11	300 11	340 11	350 18	350 30	340 36	340 41	330 48	330 44	330 48	330 37	350 32	360 21				
	121110	P	280 03	+++ ++	310 08	330 14	310 23	320 18	320 30	320 34	320 37	330 42	320 47	320 51	340 42	340 29	030 12	040 16	090 11	020 05	150 12
	121730	P	250 07	+++ ++	300 14	320 13	320 21	310 30	310 32	310 38	320 44	340 44	340 53	330 61	330 33	330 23	360 18	040 11			
CAMBORNE 03808	112330	T	000 00	+++ ++	140 04	090 03	360 02	350 02	030 04	350 07	300 18	310 32	310 27	300 36	330 31	340 13	020 14	050 13			
	120530	P	160 03	+++ ++	200 09	210 05	180 02	280 08	260 09	260 12	290 17	290 33	300 30	300 41	310 24	320 16					
	121140	T	200 13	210 14	230 08	210 11	220 08	250 12	240 19	260 19	300 21	290 33	290 39	300 60	310 30	320 11	020 10	040 09			
	121730	P	180 11	+++ ++	210 10	240 13	250 17	250 20	250 23	270 20	290 26	300 36	300 43	300 56	300 28	300 16	360 12				
VALENTIA 03953	112330	T	130 11	150 18	+++ ++	190 25	+++ ++	210 32	+++ ++	210 32	240 29	250 39	+++ ++	240 45							
	121200	T	180 19	180 23	+++ ++	210 30	+++ ++	220 39	+++ ++	230 30	230 26	240 31	+++ ++	260 56	+++ ++	280 09					
Ocean Weather Station 'I' 59°00'N 19°00'W	120000	T	360 10	350 11	250 13	230 13	230 23	240 24	240 36	230 48	240 47	250 45	240 45	240 27	240 28	240 20	240 09				
	120600	P	045 10	+++ ++	090 10	190 09	190 10	230 12	230 35	230 33	230 30	230 21	260 20	260 20	250 17	280 17	310 09				
	121200	T	100 21	090 25	130 18	140 11	190 11	200 14	210 24	210 19	220 18	240 31	220 18	210 10	250 14	250 12					
	121800	P	090 20	+++ ++	140 15	150 18	150 21	170 20	200 29	200 36	210 36	220 32	210 37	210 18	240 10	260 12	280 12				
Ocean Weather Station 'J' 52°30'N 20°00'W	112300	T	160 11	170 11	+++ ++	180 24	+++ ++	190 32	+++ ++	190 44	190 57	210 68									
	120600	P	180 05	+++ ++	180 10	180 05	180 08	190 23	210 32	210 28	210 36	210 44									
	121100	T	120 05	120 07	+++ ++	160 14	+++ ++	180 34	200 39	210 38	210 37	210 47	200 46								
	121800	P	135 10	+++ ++	150 09	160 13	170 16	170 28	170 28	200 34	210 28	220 47	200 44	200 22							
LARKHILL 03743	120625	P	000 00	+++ ++	280 09	290 06	300 08	320 12	310 23	320 26	320 29	320 43	310 43	310 48	330 37	350 28	360 13				
	121035	P	270 07	+++ ++	270 08	290 12	300 16	310 17	310 26	310 31	310 32	310 38	300 50	310 51	320 31	310 22					

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
121048	56.6°N 04.7°E	020 012 800	061 08 05	158 08 03	1024 06 04	1487 03 02	1978 00- 02-	02- 45-	3036 05- 39-					
Cloud :— 4/8 Sc. 4000 to 4500ft. 2/8 Cu. 4800 to 6500ft 1/8 Sc. at 700ft. 8/8 Cs. 25000ft. to TNG Inversion Levels :— 1012 to 1000mb 7½°C to 8½°C Isothermal Levels :— 975 to 950mb 7½°C 925 to 900mb 6°C														
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
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	120mb 290 22 11260/1 080mb 360 17 24300m 050 12 10750/1 12500/1	280 80 10300m 280 87 09550m 280 71 09500m 310 84 08400m
STORNOWAY 03026	123mb 290 29 17500m 320 16 11540/1 073mb 350 13 21900m 050 13 20370/2	270 69 11050m 270 72 10360m 260 72 09370m 290 62 10090m
SHANWELL 03170	20100m 020 12 P27500m 070 13 11300m 290 74 17200m 320 15 11300/1 11750/1	290 69 11600m 290 68 11450m 280 75 10910m 290 89 10600m
ALDERGROVE 03917	164mb 300 36 P19300m 030 14 18500/2 19500m 360 15 01390/0 12840/1 167mb 290 37 P.22600m 060 07 13100m 300 40	300 62 10950m
AUGHTON 03322	19200m 300 11 042mb 030 06 15600m 310 26	
HEMSBY 03496	176mb 350 54 12830m 330 39 16900m 340 27	350 77 11260m 330 66 11680m 330 74 10940m
CRAWLEY 03774	P21600m 030 08 20170m 040 10 18220/2 28800m 040 03 33000m 280 04 34100m 220 02 14500/1 17050/1 11180/0 11650/1 13270/1	340 62 12000m 310 61 11600m 320 69 11420m
CAMBORNE 03808	040mb 040 11 17700m 360 15 16850/2 438mb 280 18 032mb 090 13 17250m 340 14 18600m 360 13 17250/2	300 62 12050m
VALENTIA 03953	952mb 170 24 912mb 180 27 875mb 190 26 566mb 210 32 442mb 230 28 162mb 270 35 920mb 180 30 742mb 210 39 623mb 220 38 185mb 260 58 118mb 270 17 073mb 280 05	
Ocean Weather Station 'I' 59°00'N 19°00'W	221mb 240 39 03600m 230 20 20100m 030 06 352mb 230 24 280mb 240 26 076mb 310 13 11700m 210 25 18600m 280 20 12400/4	
Ocean Weather Station 'J' 52°30'N 20°00'W	893mb 180 15 792mb 180 40 618mb 180 31 565mb 190 32 265mb 220 68 00300m 170 06 00600m 170 08 926mb 140 13 800mb 210 19 725mb 120 34, 393mb 210 50 307mb 200 45 00300m 140 05 00600m 140 07 05100/0 09850/1.	
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The trough which yesterday was over eastern Canada has moved east and now lies down the Davis Strait to Newfoundland with a low centre in the Davis Strait. The down-wind ridge has continued to move east and amplify. The trough in mid-Atlantic has moved slowly east and continues to relax. The high centre off north-west Spain has remained stationary but the ridge north-eastwards across the British Isles and Scandinavia to Siberia has moved steadily eastwards in the north. The low east of the Baltic has moved east and is filling whilst the trough southwards to the Mediterranean has deepened and moved slowly east with a new low centre over the Balkans.

AVERAGE AND EXTREME VALUES 1951-55

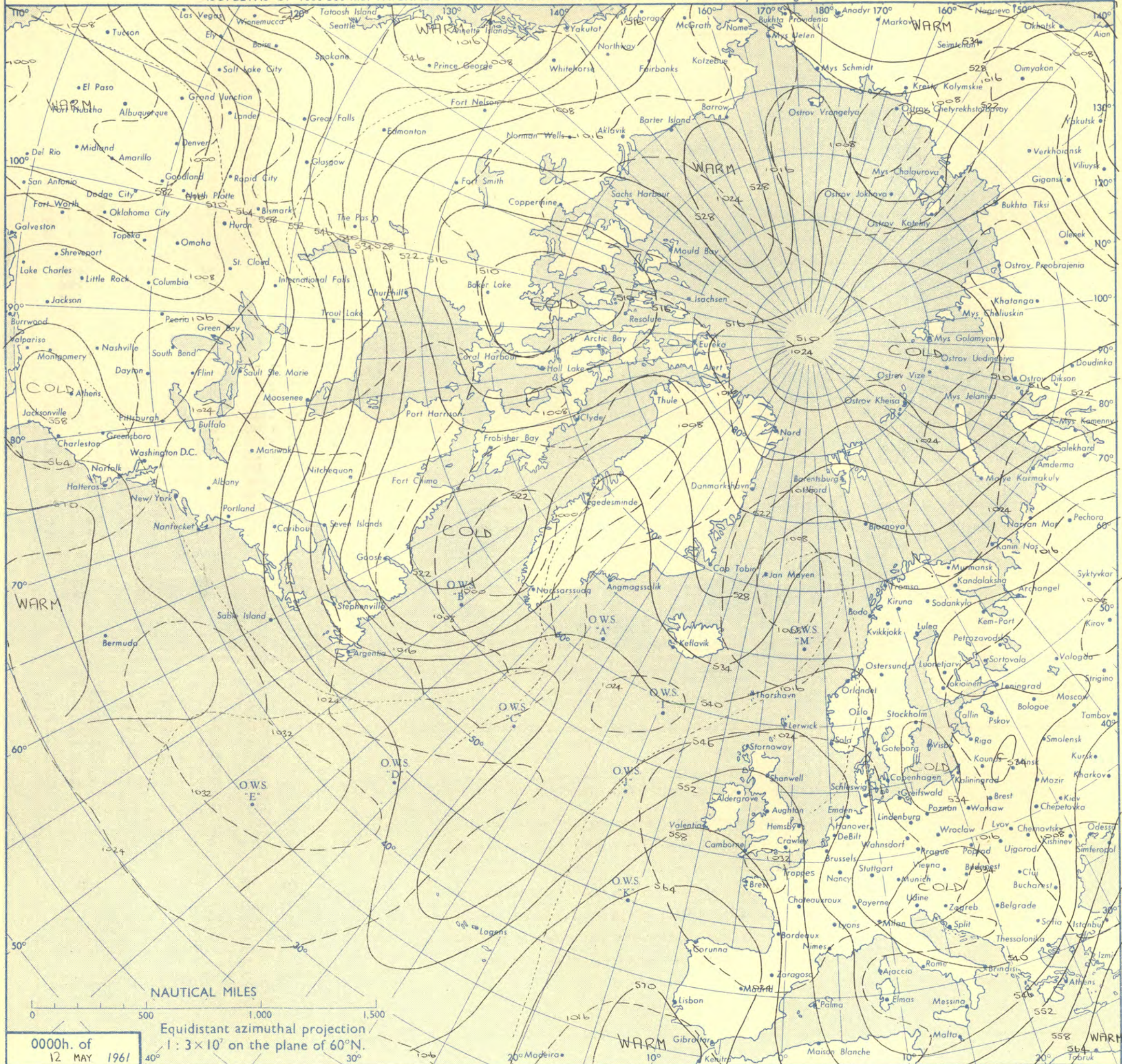
MAY

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	22145	-50.1	-46	-55	...	...	(10)
60	19500	-50.3	-43	-60	102	2	11
100	16180	-51.4	-44	-62	283	3	13
150	13540	-51.0	-42	-62	288	7	19
200	11680	-53.8	-39	-69	288	10	27
300	9070	-48.8	-37	-56	281	11	36
400	7125	-35.0	-27	-49	282	10	32
500	5530	-23.2	-15	-38	283	8	26
700	2985	-7.0	1	-20	289	4	20
850	1450	0.9	11	-10	310	2	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		254	-57.8		10230		
Max.		479	-39		12800		
Min.		171	-69		5545		
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	22100	-52.2	-50	-58	85	9	11
60	19480	-52.8	-46	-62	69	1	10
100	16195	-53.8	-44	-61	284	5	14
150	13590	-53.3	-46	-65	284	10	22
200	11750	-55.3	-42	-67	282	15	34
300	9140	-47.7	-38	-56	274	15	45
400	7180	-33.4	-23	-48	270	13	38
500	5580	-21.4	-11	-34	267	11	31
700	3015	-5.3	6	-16	258	7	23
850	1470	3.0	15	-6	254	5	20
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		244	-58.0		10560		
Max.		405	-39		13685		
Min.		158	-72		6825		
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	...	...	...	...	180	2	8
60	19500	-59.3	-57	-66	270	6	10
100	16315	-60.2	-51	-67	270	24	26
150	13775	-59.1	-49	-71	275	40	43
200	11970	-58.9	-48	-67	275	48	53
300	9355	-43.8	-39	-49	275	42	50
400	7365	-28.2	-23	-38	275	34	40
500	5720	-16.0	-12	-28	275	27	32
700	3095	2.2	9	-9	275	16	23
850	1500	12.2	24	2	275	9	16
Tropopause		Average	Max.	Min.	Max.	Min.	
		Press.	Temp.	Press.	Press.	Temp.	Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		117	-65.1	...	80	...	-71
		199	-60.9	365	...	-41	...

* 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.

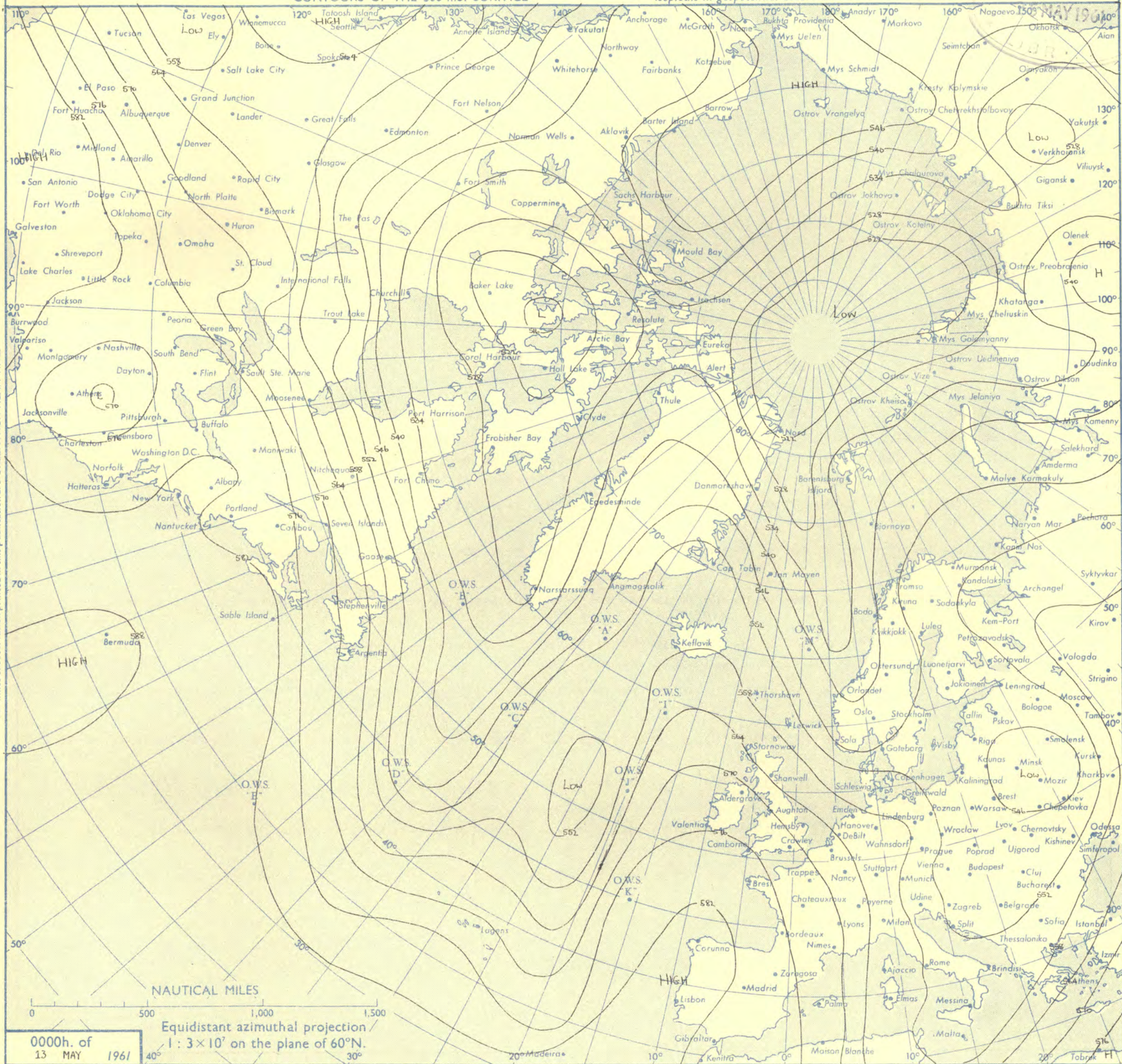
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



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	gpm	°C	gpm	°C	gpm	°C	gpm	°C		
LERWICK 03005	122333	082	06	01	169	05	01	1473	01	10	3006	06	25	5564	23	40	7162	31	46	9108	50	++	11717	51	13597	50	16243	51						
	131143	082	07	02	169	05	00	1476	01	17	3019	06	23	5571	22	31	7176	34	44	9123	50	++	11743	53	13616	51	16257	50	18569	54	20724	55		
STORNOWAY 03026	122335	013	08	07	184	07	05	1507	03	00	3058	05	14	5631	20	29	7246	31	40	9218	47	++	11796	57	13641	52								
	131140	013	11	08	159	10	05	1494	06	01	3060	02	07	5650	19	25	7271	32	40	9241	47	++	11824	58										
SHANWELL 03170	122330	005	08	05	182	09	04	1511	02	04	3066	03	16	5643	20	24	7258	32	39	9228	48	++	11801	57	13641	54	16249	54	18529	55	20677	55		
	131130	005	12	08	170	08	05	1495	04	01	3058	02	15	5641	19	27	7261	32	39	9229	47	++	11812	57	13651	54	16265	53	18552	55	20707	54	24005	51
ALDERGROVE 03917	122330	077	10	06	170	11	07	1520	07	05	3097	00	14	5697	20	23	7322	30	34	9306	46	++	11886	65	13667	59	16224	57	18486	57	20611	58		
	131130	077	19	09	133	18	09	1497	11	03	3084	00	06	5700	17	21	7336	29	34	9326	45	++	11920	63	13721	57	16314	55	18599	55				
AUGHTON 03322	122330	056	09	06	188	12	05	1539	08	10	3112	02	18	5710	18	26	7340	29	34	9323	46	++	11893	63	13713	55	16312	56	18584	56	20729	55	24005	54
	131130	056	19	04	157	17	06	1517	08	10	3097	01	13	5709	17	23	7344	29	34	9336	44	++	11940	64										
HEMSBY 03496	122330	012	12	08	171	16	08	1527	07	04	3096	02	23	5678	20	36	7295	31	40	9265	48	++	11830	60	13659	54	16250	55	18523	55				
	131130	012	14	09	161	10	01	1503	06	06	3070	02	06	5653	20	23	7268	33	37	9226	49	++	11793	57	13630	54								
CRAWLEY 03774	122330	144	13	07	196	14	06	1566	10	19	3147	00	12	5740	20	31	7360	30	34	9340	46	++	11910	62	13727	54	16309	56	18575	56	20724	54		
	131130	144	20	05	167	19	03	1534	10	16	3111	02	12	5707	19	27	7329	31	38	9304	46	++	11885	65	13667	57								
CAMBORNE 03808	122330	088	11	09	196	13	08	1567	11	11	3157	00	10	5765	17	30	7404	29	38	9393	46	++	11979	64	13753	60	16307	58	18553	58	20676	58	23933	54
	131136	088	19	08	154	17	08	1525	12	05	3116	01	10	5732	16	31	7371	29	42	9362	45	++	11962	63	13731	60	16280	58	18520	59	20637	58	23877	55
VALENTIA 03953	122330	014	13	10	016	13	10	1520	13	04	3123	03	14	5760	14	25	7400	28	35	9400	43	++	12000	63										
	131200	014	17	13	106	15	10	1470	11	02	3060	01	13	5670	15	28	7330	26	38	9340	43	++	11960	59	++++	++	16320	58	++++	++	++++	++	++++	63
Ocean Weather Station 'I' 59°00'N 19°00'W	130001		10	09	013	++	++	1460	02	01	3020	03	05	5600	21	31	7210	33	46	9170	46	++	11820	51	13690	50	16330	52	18640	52				
	131200		10	09	082	09	08	1407	01	01	2974	01	05	5580	18	29	7200	31	39	9170	48	++	11770	52	13640	49	16280	52						
Ocean Weather Station 'J' 52°30'N 20°00'W	122300		11	10	008	10	10	1420	03	02	3000	01	15	5620	15	31	7260	29	39	9240	46	++	11850	56	13710	51	16340	53						
	131100		11	10	048	11	10	1383	01	00	2926	06	12	5460	25	32	7040	38	46	9000	42	++	11710	47	13600	50	16230	53	++++	++	20740	57	23970	58

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 885++	021	011	920	005 ++ 01- 880 03- 06- 872 01- 06- 853 ++ 10- 848 01- 10- 818 ++ 11- 725 06- 23- 706 05- 25- 607 12- 30- 442 ++ 45- 362 40- 50- 271 55- 256 56- 167 49- 100 51- 085 53-	256	10120	56-
	02 756++	021	011	938 803	973 02 02- 907 02- 04- 890 ++ 02- 875 01 10- 870 ++ 15- 827 01 21- 752 02- 20- 716 06- 23- 686 07- 24- 570 ++ 32- 522 ++ 29- 475 25- 35- 466 25- 35- 273 39- 50- 273 54- 255 52- 198 53- 186 50- 138 52- 100 50- 035 55-	273	09740	54-
STORNOWAY 03026	02 855++	023	021	790	005 07 05 945 05 03 894 02 01 876 04 03 720 ++ 09- 675 ++ 18- 646 ++ 13- 631 ++ 15- 621 ++ 19- 586 ++ 26- 569 13- 25- 473 ++ 31- 449 26- 37- 430 ++ 39- 340 40- 47- 233 60- 222 61- 208 61- 205 58- 181 54- 134	222	11150	61-
	02 11501	019	018	734	004 ++ 05 960 ++ 03 936 06 01- 927 07 01 888 07 01 766 01 07- 756 01 10- 741 ++ 12- 691 03- 08- 670 03- 10- 611 09- 15- 594 ++ 18- 536 ++ 19- 528 ++ 22- 448 25- 31- 402 31- 39- 342 40- 46- 255 56- 213 60- 179 55-	213	11410	60-
SHANWELL 03170	02 00900	022	021	754	005 10 05 991 ++ 03 963 ++ 03 931 ++ 00 878 ++ 00 862 ++ 00 854 02 03- 835 ++ 09- 789 03 12- 735 02- 09- 702 02- 15- 672 06- 20- 625 ++ 22- 551 16- 21- 501 20- 24- 415 30- 38- 376 ++ 41- 341 40- 46- 256 57- 225 62- 203 57- 155 53- 100 54- 032 55-	225	11080	62-
	02 21400	021	020	755 727	009 09 06 919 03 01 902 ++ 01 889 ++ 00 873 05 02 865 ++ 01 810 03 09- 775 ++ 17- 752 00 19- 730 00 20- 694 ++ 14- 645 ++ 15- 590 ++ 22- 537 16- 26- 474 22- 30- 344 40- 46- 253 57- 236 59- 174 55- 100 53- 074 55- 038 53- 030 51-	236	10780	59-
ALDERGROVE 03917	04 00938	021	011	702	991 12 08 949 12 07 893 ++ 05 876 07 01 840 ++ 08- 821 07 09- 797 ++ 03 786 ++ 01- 766 ++ 01- 760 02 04- 753 ++ 06- 718 ++ 13- 680 01- 14- 631 ++ 18- 608 ++ 15- 563 12- 16- 546 ++ 17- 513 19- 22- 477 22- 24- 410 28- 32- 366 35- 39- 333 ++ 44- 247 56- 193 66- 175 61- 107 57- 033 57-	193	12070	66-
	02 11531	015	006	702	995 16 07 971 ++ 07 917 11 01 890 12 04- 811 09 06- 786 ++ 08- 766 ++ 03- 718 01 04- 707 ++ 04- 678 ++ 11- 656 03- 14- 626 ++ 10- 612 ++ 10- 592 09- 15- 582 ++ 16- 572 ++ 14- 543 ++ 22- 500 ++ 21- 477 19- 24- 338 39- 44- 233 58- 197 64- 163 56- 056 54-	197	12030	64-
AUGHTON 03322	02 00900	023	016	722	001 12 06 976 12 03 937 10 02 928 ++ 03 911 ++ 01- 888 09 01- 858 ++ 09- 787 05 13- 736 ++ 12- 645 ++ 24- 557 12- 27- 464 22- 27- 427 26- 31- 334 40- 45- 216 64- 172 56- 119 53- 094 57- 030 54-	216	11430	64-
	02 00905	019	012	708	001 ++ 06 923 ++ 02 915 10 01- 892 11 08- 861 ++ 11- 828 ++ 04- 762 03 09- 741 03 09- 692 ++ 15- 654 03- 14- 620 ++ 20- 602 07- 12- 578 ++ 15- 571 10- 18- 530 ++ 21- 512 16- 25- 492 ++ 23- 325 40- 45- 195 66- 170 55-	(195	12100	66-)
HEMSBY 03496	02 00901	021	019	728	014 16 09 968 14 04 875 08 03 841 07 06- 722 00 21- 532 17- 36- 432 26- 37- 341 40- 46- 219 65- 170 55- 070 55-	219	11270	65-
	02 30982	019	018	737	000 10 01 960 ++ 05 890 ++ 02 867 06 10- 842 ++ 05- 817 ++ 11- 777 ++ 15- 737 00 02- 722 01- 03- 682 03- 09- 638 08- 11- 477 22- 25- 350 40- 44- 235 62- 179 55- 145 54-	235	10780	62-
CRAWLEY 03774	02 00901	023	006	707	955 16 05- 930 14 01 915 15- 05- 870 ++ 17- 750 ++ 25- 680 ++ 11- 580 12- 18- 559 13- 21- 521 ++ 25- 492 21- 32- 438 ++ 31- 346 37- 43- 233 61- 210 64- 162 55- 092 57- 036 53-	210	11610	64-
	02 00901	019	003	719	988 17 01- 922 12 06- 903 12 11- 825 09 18- 793 ++ 19- 773 ++ 10- 729 ++ 10- 697 02- 12- 670 02- 16- 617 08- 23- 568 ++ 28- 561 12- 28- 506 19- 26- 475 21- 29- 339 ++ 46- 331 41- 204 65- 187 66- 162 58- 136 55- 129 57-	187	12290	66-
CAMBORNE 03808	02 00901	024	013	695	965 16 01 939 16 03- 859 11 13- 810 09 04- 778 ++ 04- 630 05- 16- 457 21- 34- 408 28- 37- 331 40- 49- 255 54- 204 64- 186 65- 125 56- 101 58- 051 58- 030 54-	204	11850	64-
	02 00902	018	008	688	993 16 07 965 14 05 942 ++ 02- 925 15 01- 871 13- 04- 672 ++ 12- 642 04- 16- 476 19- 33- 345 37- 49- 275 49- 198 63- 169 64- 129 57- 074 59- 030 55-	198	12020	63-
VALENTIA 03953	02 20941	019	017	665	003 13 10 939 10 07 885 13 00 836 13 07- 639 02- 22- 622 03- 15- 536 13- 22- 505 13- 25- 459 19- 25- 335 38- 44- 294 45- 250 53- 199 63- 188 65- 163 58-	188	12400	65-
	05 22501	013	011	690	955 13 09 939 10 04 888 14 01 791 07 07- 700 01 13- 657 03- 16- 443 21- 34- 428 21- 34- 363 32- 44- 314 40- 219 57- 197 59- 080 57- 058 58- 030 63-	200	12000	59-
Ocean Weather Station 'I' 59°00'N 19°00'W	10 862++	016	016	826 737	943 07 07 868 ++ 02 819 01- 01- 792 02 14- 779 03 14- 757 ++ 16- 743 ++ 05- 727 01- 03- 632 ++ 45- 573 ++ 26- 540 ++ 29- 521 19- 27- 498 ++ 34- 383 35- 48- 355 40- 307 46- 230 52- 123 51- 058 53-	230	10900	52-
	02 863++	010	010	709	849 01 01 814 03 02 735 02 01 709 00 01- 683 ++ 10- 645 ++ 14- 592 09- 16- 555 12- 23- 450 24- 35- 344 40- 46- 251 57- 192 51- 170 53- 148 49- 100 52-	251	10400	57-
Ocean Weather Station 'J' 52°30'N 20°00'W	45 9+0++	009	009	685	843 02 02 820 07 00 634 04- 17- 350 36- 45- 317 41- 49- 279 50- 212 58- 184 51- 125 51- 068 56- 050 55- 030 54-	212	11400	58-
	03 7537+	005	005	800	757 02- 06- 714 06- 11- 668 08- 14- 542 20- 27- 406 38- 46- 390 37- 355 40- 219 46- 181 48- 055 56- 55-	406	07000	38-

STATION		MAX. WIND
LERWICK 03005	23100m 050 12 24900m 050 11 08300/0 10900/1	300 80 09130m 330 66 08850m 330 67 09350m 340 70 09770m
STORNOWAY 03026	116mb 300 18 13800m 310 24 01440/5 01790/5 11120/1 186mb 300 36 22100m 050 11 01830/5 02220/5	290 69 10730m 290 62 10560m
SHANWELL 03170	036mb 070 14 13200m 310 42 01640/9 P27900m 100 14 19600m 030 06	300 68 10460m 300 70 11530m 300 72 10840m 310 61 10690m
ALDERGROVE 03917	P21500m 050 05 19600m 010 10 10680/0 11740/1 12320/1 17300/2 351mb 280 34 175mb 290 36 061mb 030 10 05950/3	290 82 11450m
AUGHTON 03322	P26100m 090 11 11400m 310 84 00360/2 11310/0 11750/1 12110/1 12740/1 178mb 300 49 19500m 020 06	310 93 11530m 300 81 11660m
HEMSBY 03496	075mb 350 17 12050/1 13200m 320 44 09890/0 12060/1 12900m 320 46 19800m 020 07 12120/1 12970/1	310 66 10600m 330 71 10790m 320 89 11080m 310 83 11220m
CRAWLEY 03774	040mb 080 04 12650m 320 53 13650m 320 37 11350/0 11970/1 12300/1 12650/1 28800m 140 10 33000m 220 13 36000m 210 11 10410/0 11600/1 12960/1 15190/1 12770/1	330 86 11640m 320 87 11410m 300 64 12120m
CAMBORNE 03808	031mb 090 03 17400m 340 11 12840/1 P25800m 130 07 13160m 260 27 12400/1	300 69 11870m
VALENTIA 03953	939mb 170 29 885mb 180 31 622mb 250 09 459mb 260 26 250mb 260 47 163mb 280 58 939mb 160 23 443mb 180 36 314mb 210 45 219mb 210 55 080mb 000 00 058mb 000 00	
Ocean Weather Station 'I' 59°00'N 19°00'W	065mb 000 00 18900m 000 00 06070/0 00750/1 224mb 200 36 108mb 190 10 13500m 200 14 16800m 150 08 12200/1 14040/3 16700/5 17100/5	220 66 09040m 230 60 09220m
Ocean Weather Station 'J' 52°30'N 20°00'W	843mb 180 18 820mb 180 19 634mb 180 34 350mb 190 50 00300m 190 12 00600m 190 17 05000/0 757mb 260 23 542mb 250 14 406mb 170 20 390mb 170 36 355mb 150 44 219mb 200 28 00300m 270 23 00600m 270 24	190 66 07400m 170 84 06350m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The major troughs in mid-Atlantic and over eastern Europe have shown some intensification as new troughs have fed into them and amplified, the original troughs now being less important relaxing features. The ridge over the British Isles has weakened a little so also has the ridge over eastern North America.

AVERAGE AND EXTREME VALUES 1951-55
MAY

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	22145	-50.1	-46	-55	...	...
60	19500	-50.3	-43	-60	102 2	11
100	16180	-51.4	-44	-62	283 3	13
150	13540	-51.0	-42	-62	288 7	19
200	11680	-53.8	-39	-69	288 10	27
300	9070	-48.8	-37	-56	281 11	36
400	7125	-35.0	-27	-49	282 10	32
500	5530	-23.2	-15	-38	283 8	26
700	2985	-7.0	1	-20	289 4	20
850	1450	0.9	11	-10	310 2	18
Tropopause		Press. (mb.)	Temp. (°C)	Height (gpm.)		
Average		254	-57.8	10230		
Max.		479	-39	12800		
Min.		171	-69	5545		

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	22100	-52.2	-50	-58	85 9	11
60	19480	-52.8	-46	-62	69 1	10
100	16195	-53.8	-44	-61	284 5	14
150	13590	-53.3	-46	-65	284 10	22
200	11750	-55.3	-42	-67	282 15	34
300	9140	-47.7	-38	-56	274 15	45
400	7180	-33.4	-23	-48	270 13	38
500	5580	-21.4	-11	-34	267 11	31
700	3015	-5.3	6	-16	258 7	23
850	1470	3.0	15	-6	254 5	20
Tropopause		Press. (mb.)	Temp. (°C)	Height (gpm.)		
Average		244	-58.0	10560		
Max.		405	-39	13685		
Min.		158	-72	6825		

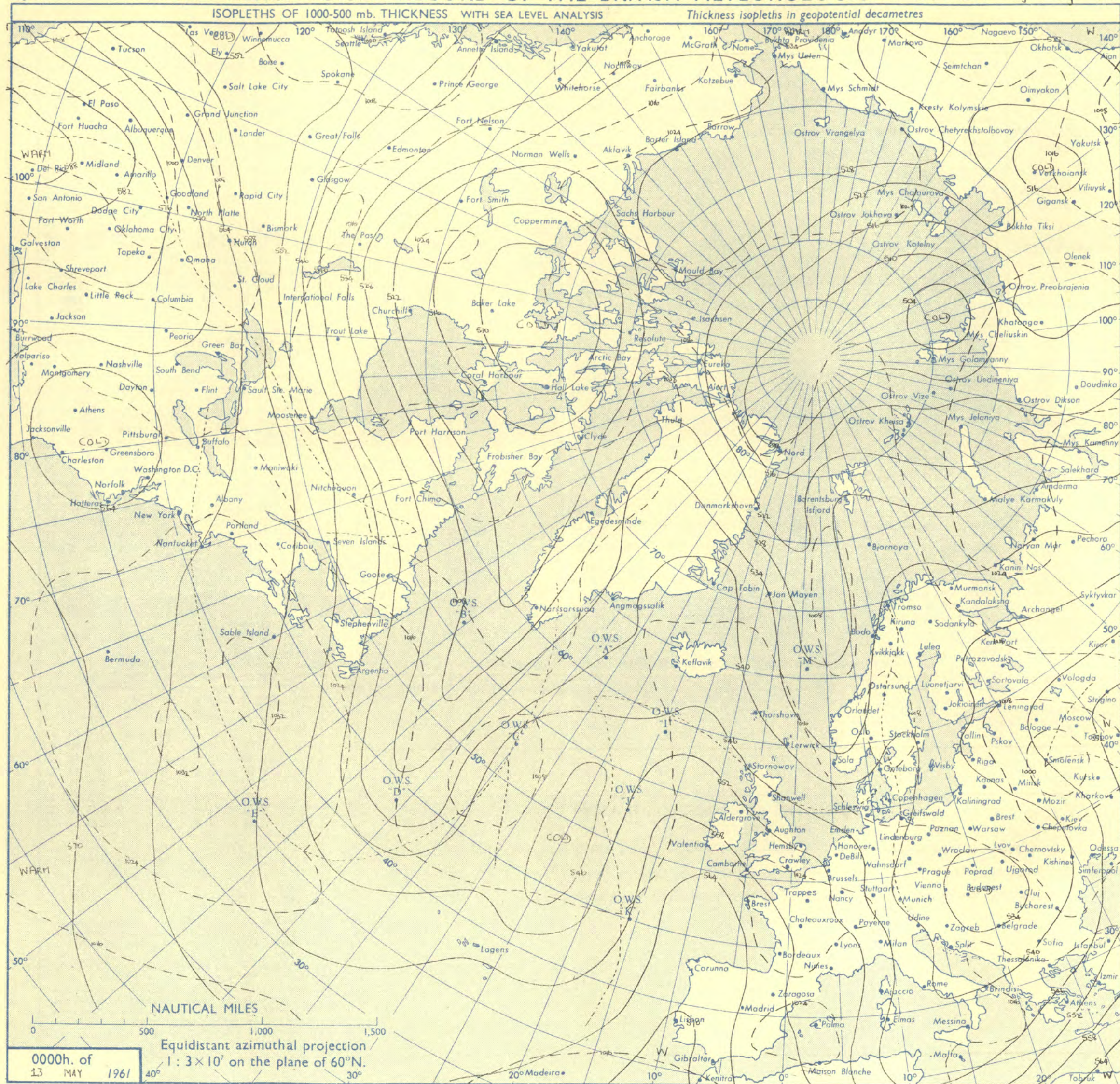
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.

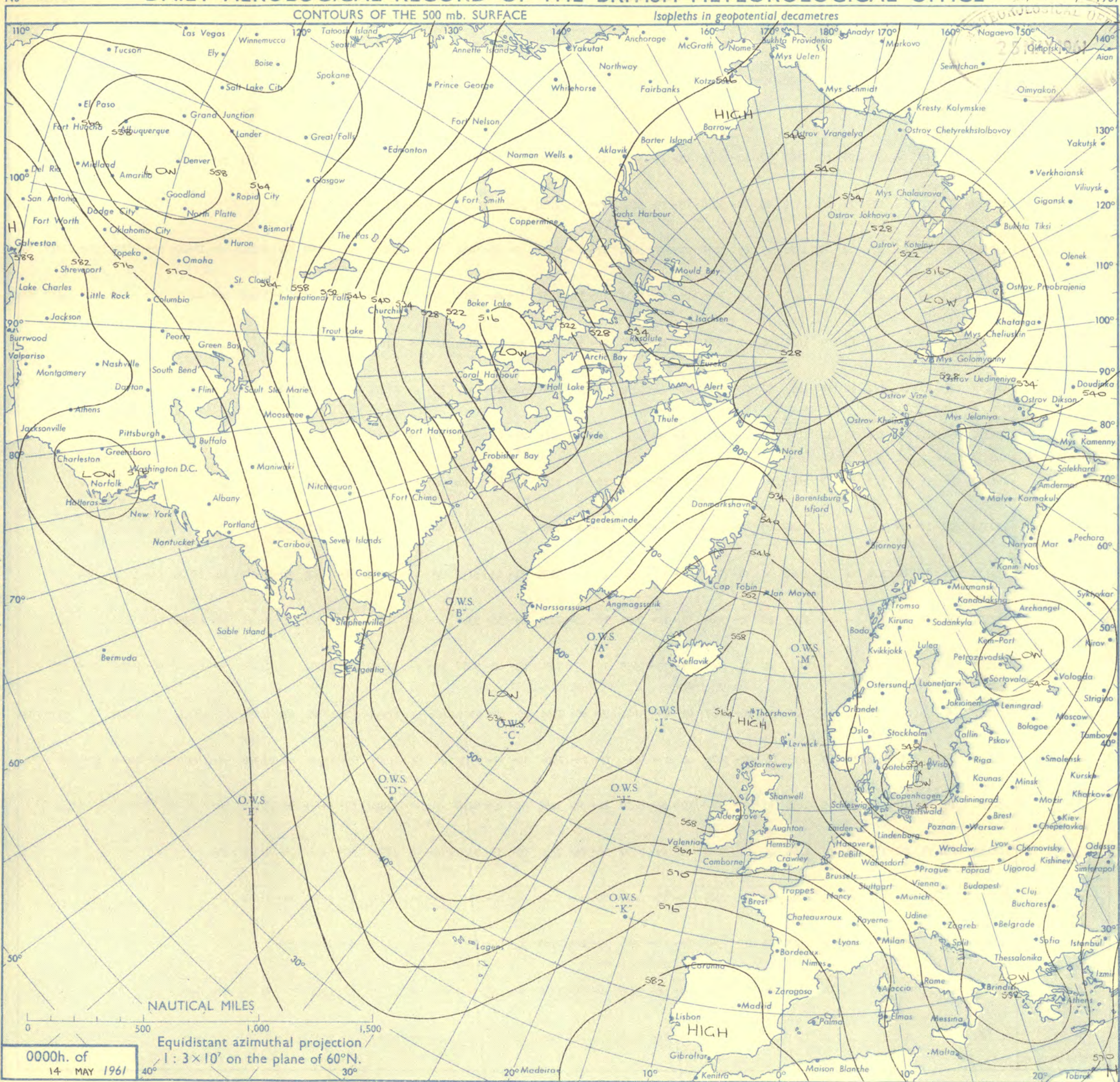
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	Kt.	Kt.
40	...	...	...	...	180 2	8
60	19500	-59.3	-57	-66	270 6	10
100	16315	-60.2	-51	-67	270 24	26
150	13775	-59.1	-49	-71	275 40	43
200	11970	-58.9	-48	-67	275 48	53
300	9355	-43.8	-39	-49	275 42	50
400	7365	-28.2	-23	-38	275 34	40
500	5720	-16.0	-12	-28	275 27	32
700	3095	2.2	9	-9	275 16	23
850	1500	12.2	24	2	275 9	16
Tropo- pause		Average Press.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb. °C	mb.	mb.	°C	°C
Lower		117 -65.1	...	80	...	-71
		199 -60.9	365	...	-41	...

* 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	gpm	°C	gpm	°C	gpm	°C	gpm	°C		
LERWICK 03005	132330	082	06	01	162	05	00	1475	02	17-	3024	05-	25-	5608	18-	36-	7228	32-	47-	9187	50-	++	11787	53-	13656	51-	16297	50-	18614	53-				
	141130	082	08	02	165	06	00	1475	02	17-	3018	06-	17-	5591	20-	33-	7200	34-	44-	9146	51-	++	11703	57-	13547	54-	16151	53-	18436	56-	20587	55-		
STORNOWAY 03026	132330	013	08	06	122	09	06	1463	07	03-	3034	01-	17-	5634	17-	31-	7268	29-	41-	9253	46-	++	11857	59-	13692	53-	16311	52-	18616	54-				
	141130	013	12	08	137	11	05	1472	05	01-	3034	03-	19-	5628	19-	37-	7244	32-	48-	9204	48-	++	11789	56-	13635	53-								
SHANWELL 03170	132330	005	08	06	144	07	05	1470	05	03	3037	02-	07-	5634	17-	29-	7266	29-	40-	9254	46-	++	11855	60-	13680	54-	16282	55-	18569	55-	20721	55-	23979	54-
	141130	005	09	04	154	06	02	1473	03	01	3028	05-	09-	5611	19-	31-	7231	31-	44-	9201	47-	++	11834	52-	13703	50-	16348	50-	18672	52-	20849	51-	24189	48-
ALDERGROVE 03917	132330	077	13	09	093	13	09	1442	04	02	3003	03-	12-	5580	21-	31-	7214	30-	42-	9194	46-	++	11827	57-	13663	55-								
	141130	077	13	12	122	12	10	1454	02	01-	2993	07-	09-	5532	24-	30-	7136	32-	43-	9110	45-	++	11771	52-	13622	55-								
AUGHTON 03322	132330	056	11	09	117	16	12	1481	08	02-	3055	01-	10-	5673	16-	32-	7313	29-	43-	9297	45-	++	11907	60-	13725	54-	16322	55-	18600	55-				
	141130	056	11	10	133	09	07	1465	02	00	3015	04-	13-	5579	19-	29-	7202	30-	41-	9184	46-	++	11822	51-	13688	52-	16322	52-						
HEMSBY 03496	132330	012	10	09	134	09	07	1486	07	02-	3054	03-	10-	5644	19-	22-	7269	31-	35-	9248	46-	++	11842	59-	13674	54-								
	141130	012	11	08	124	08	05	1460	06	01-	3015	06-	13-	5568	20-	33-	7185	31-	43-	9152	48-	++	11763	54-	13622	52-	16240	54-	18526	54-	20693	53-		
CRAWLEY 03774	132330	144	11	08	131	++	++	1499	10	03-	3085	01-	10-	5695	16-	27-	7331	29-	38-	9316	46-	++	11912	61-	13727	55-	16322	54-	18596	54-				
	141130	144	18	09	117	++	++	1472	04	01	3041	01-	23-	5655	16-	37-	7292	29-	48-	9282	45-	++	11872	58-	13704	55-	16300	55-	18574	56-	20718	56-		
CAMBORNE 03808	132330	088	12	11	137	12	11	1482	08	06-	3067	03	28-	5702	16-	40-	7338	29-	49-	9330	45-	++	11934	60-	13722	57-	16291	57-	18554	58-	20678	57-	23932	55-
	141130	088	14	11	160	13	10	1496	06	07-	3076	01	17-	5692	17-	28-	7326	30-	39-	9319	44-	++	11909	65-	13760	57-	16274	56-	18535	58-	20660	56-	23921	56-
VALENTIA 03953	132330	014	12	10	124	11	09	1455	03	03-	3010	03-	26-	5600	16-	38-	7240	30-	49-	9220	46-	++	11820	57-	++++	++	16230	56-						
	141130	014	13	08	165	11	07	1495	04	08-	3066	00	09-	5690	16-	24-	7330	29-	35-	9330	44-	++	11920	60-	++++	++	16350	54-						
Ocean Weather Station 'I' 59°00'N 19°00'W	140001		10	09	061	10	09	1394	07	07-	2968	03-	15-	5550	21-	30-	7160	32-	42-	9130	48-	++	11730	57-	13580	54-	16200	53-						
	141200		10	09	095	09	08	1425	03	03-	2982	04-	10-	5560	19-	28-	7180	32-	40-	9150	48-	++	11730	52-	13620	50-								
Ocean Weather Station 'J' 52°30'N 20°00'W	132300		11	08	106	10	08	1438	02	00	2992	03-	08-	5590	18-	24-	7220	30-	35-	9200	47-	++	11800	55-	13670	50-	16310	52-	++++	++	20750	54-		
	141100		11	10	113	10	09	1452	04	00	3007	03-	10-	5590	19-	23-	7210	29-	33-	9200	44-	++	11820	52-	13720	48-	16390	48-	++++	++	20960	48-		

STATION	ww N _h C _L hC _M C _H	PRESSURE																													TROPOPAUSE																																															
		MSL	Surf.	0°C level																													mb	m	°C																																											
LERWICK 03005	02 755++	020	010	927 790	990	++	00	906	01-	02-	885	04	11-	882	++	16-	742	02-	23-	675	++	25-	647	09-	20-	527	14-	33-	382	35-	49-	239	10650	57-																																												
	02 756++	020	010	926 801	000	06	00	898	++	05-	890	03-	09-	878	03	11-	858	++	18-	750	++	15-	663	08-	19-	640	08-	23-	578	++	23-	537	240	10590	63-																																											
STORNOWAY 03026	02 00900	015	013	715	999	09	06	982	08	04	945	10	04	890	07	01	856	07	04-	841	++	03-	738	++	08-	692	++	19-	668	03-	16-	600	++	204	11720	61-																																										
	03 11530	017	015	741	000	++	05	891	04	02	858	05	00	855	05	01-	794	++	07-	765	01	16-	715	++	20-	675	++	18-	591	10-	27-	578	10-	237	10730	59-																																										
SHANWELL 03170	02 25700	018	017	720	913	02	01	895	05	03	879	++	04	861	05	03	793	01	07-	785	++	08-	760	01	05-	745	02	10-	724	++	06-	668	04-	07-	220	11250	59-																																									
	02 6552+	019	018	766	635	++	15-	588	++	15-	571	++	20-	550	13-	21-	532	14-	25-	495	++	30-	327	40-	50-	291	48-	220	59-	194	60-	172	55-	100	55-	038	56-	030	54-																																							
ALDERGROVE 03917	04 756++	011	002	742	987	13	08	939	11	08	850	++	02	842	04	01	815	04	04-	785	++	16-	767	02	16-	729	++	11-	666	06-	14-	650	++	13-	197	11920	57-																																									
	08 754++	015	005	824	984	10	08	844	01	01-	660	10-	12-	507	24-	30-	460	26-	35-	347	++	50-	332	41-	259	49-	236	49-	208	52-	143	54-	136	53-	208	11500	52-																																									
AUGHTON 03322	02 00905	014	007	719	002	15	12	983	++	05	973	17	05	930	13	01	897	11	04	837	07	04-	685	03-	11-	674	02-	10-	646	++	12-	621	06-	16-	588	07-	22-	422	25-	39-	336	40-	251	53-	200	60-	186	60-	157	54-	065	55-																										
	02 863++	016	009	809	998	09	07	911	06	04	772	02-	06-	768	++	03-	760	++	07-	753	01-	07-	695	05-	14-	541	18-	24-	518	18-	28-	465	22-	32-	337	40-	50-	281	50-	250	53-	092	52-																																			
HEMSBY 03496	02 15532	016	015	730	994	09	07	986	10	03	972	11	05	955	++	06	938	11	04	920	11	06	898	11	02	889	++	00	870	09	02	856	++	02-	856	++	02-	835	06	00	782	02	03-	761	++	07-	748	++	04-	686	++	12-	594	++	23-	583	10-	17-	576	++	15-	553	++	18-	509	++	21-	336	40-	43-	242	57-	204	60-	170	54-	108	54-
	02 854++	015	013	774	003	08	05	950	04	03	917	07	04	907	++	00	887	06	00	870	08	02	858	++	00	806	++	04-	750	02-	05-	715	++	09-	695	06-	14-	640	11-	15-	583	++	18-	557	++	26-	496	21-	33-	419	29-	41-	362	37-	48-	277	52-	243	56-	193	52-	083	55-	040	52-													
CRAWLEY 03774	02 00908	016	999	708	985	16	07	955	++	07	899	13	00	795	07	06-	610	08-	14-	572	++	22-	501	16-	27-	333	++	46-	302	46-	224	59-	200	61-	189	60-	183	56-	062	55-																																						
	02 625++	014	997	708	968	14	07	909	08	05	842	04	01	825	06	05-	780	++	15-	727	02	21-	633	06-	28-	577	08-	30-	387	31-	49-	261	53-	228	59-	210	61-	163	53-	050	56-																																					
CAMBORNE 03808	02 862++	017	006	659	948	++	07	909	06	04	895	++	05	863	09	01-	780	++	19-	713	04	27-	621	02-	37-	422	26-	47-	384	31-	50-	243	56-	167	63-	156	57-	068	58-	030	55-																																					
	02 58531	019	009	682	955	08	04	881	03	02	861	06	05-	829	07	09-	770	++	13-	746	04	19-	674	++	15-	572	09-	21-	377	33-	42-	325	40-	47-	226	60-	193	66-	189	63-	135	55-	097	56-	092	59-	087	56-	066	59-	035	54-	030	56-																								
VALENTIA 03953	80 724++	015	013	760	861	01	01-	855	04	01-	794	02	15-	711	03-	25-	684	03-	26-	624	09-	32-	567	13-	35-	534	12-	35-	331	41-	237	58-	195	57-	184	59-	165	54-	098	56-																																						
	01 58400	020	018	700	928	05	02	892	03	02-	874	05	03-	787	03	18-	772	03	11-	685	00	09-	548	10-	19-	450	23-	29-	433	24-	30-	216	62-	171	53-	110	55-	092	51-																																							
Ocean Weather Station 'I' 59°00'N 19°00'W	20 853++	007	007	730	880	03	00	866	08	05	825	++	12-	802	05	11-	735	++	10-	542	16-	27-	476	++	31-	430	++	40-	345	40-	50-	260	55-	55-	205	58-	175	52-	095	54-	072	51-																																				
	02 685+2	012	012	758	938	05	05	925	06	04	865	++	04-	848	03	03-	815	01	07-	794	02	09-	782	++	11-	765	++	06-	719	++	10-	684	++	10-	525	18-	26-	496	19-	28-	345	40-	46-	270	55-	257	54-	215	58-	200	52-	139	50-																									
Ocean Weather Station 'J' 52°30'N 20°00'W	02 69400	013	013	775	960	07	06	820	01	00	724	01-	06-	604	07-	14-	406	28-	34-	264	54-	233	57-	220	52-	196	56-	178	50-	118	50-	072	56-	035	52-																																											
	25 894++	013	013	792	954	08	07	880	03	02	863	05	01	754	02-	04-	696	03-	10-	484	20-	24-	315	41-	46-	234	58-	177	47-	065	48-	036	49-	954	08	07	880	03	02	863	05	01	754	02-	04-	696	03-	10-	484	20-	24-	315	41-	46-	234	58-	177	47-	065	48-	036	49-																

UPPER WINDS AT STANDARD LEVELS

14 May

1961

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	132330	T	040 12	+++ ++	060 10	030 13	360 14	360 15	360 21	010 31	360 37	360 47	360 52	360 37	350 21	320 12	010 14				
	140535	P	070 08	+++ ++	050 09	040 09	030 14	030 12	030 19	020 26	020 35	020 43	020 46	350 28	350 18	340 12	020 10	050 13	060 11		
	141130	T	030 12	+++ ++	040 11	030 10	030 13	030 13	020 17	010 25	010 32	020 43	030 46	360 28	350 15	350 09	020 06	070 10			
	141918	P	070 10	+++ ++	040 11	030 14	040 17	030 17	360 22	340 26	360 32	360 36	360 39	010 32	360 15						
STORNOWAY 03026	132330	T	160 05	+++ ++	130 10	110 11	070 10	060 07	080 10	050 09	020 10	340 11	330 15	310 17	310 12	340 09	340 05				
	140550	P	090 13	+++ ++	110 11	130 10	120 08	090 12	090 11	090 20	090 24	070 26	040 13	340 15	330 11	330 10	030 08				
	141130	T	160 09	+++ ++	200 05	140 04	070 06	070 07	060 10	080 17	070 18	060 30	070 20	360 14	320 10						
	141730	P	060 03	+++ ++	220 03	180 04	110 05	040 05	010 07	020 09	360 12	050 15	360 16	350 13	330 12	320 14	050 07	090 07			
SHANWELL 03170	132330	T	120 05	+++ ++	120 13	160 07	250 09	280 07	340 09	330 15	310 20	300 24	300 30	310 31	320 22	320 12	360 11	050 08	090 12	P120 14	
	140530	P	080 13	+++ ++	100 08	140 11	180 07	230 05	140 03	080 12	070 23	040 11	300 07	320 17	310 18						
	141130	T	110 09	+++ ++	110 07	210 03	360 05	010 04	050 06	070 26	060 36	050 39	020 23	340 15	320 18	310 10	040 03	060 09	100 13		
	141730	P	090 07	+++ ++	340 05	330 06	330 06	030 08	020 15	040 23	040 34	050 47	050 42	340 24	330 15	330 14					
ALDERGROVE 03917	132330	T	180 08	+++ ++	240 10	200 13	150 24	160 30	160 32	150 31	170 40	190 37	200 27	230 27	270 16						
	140530	P	230 11	+++ ++	260 16	210 08	200 08	250 13	270 14	260 20	260 21	280 30	270 25	280 19	300 16	310 07	040 09	080 04	090 14		
	141130	T	270 10	+++ ++	280 09	310 04	310 07	300 04	050 02	340 05	340 03	300 16	290 18	290 14	300 14	P330 04	310 08	060 09	140 10		
	141730	P	060 08	+++ ++	050 08	030 06	040 06	040 14	050 24	060 37	070 47	040 34	350 31	320 21	300 13	320 09					
AUGHTON 03322	132330	T	000 00	+++ ++	210 12	210 18	230 14	220 19	230 19	240 18	260 33	260 31	270 36	270 33	300 27	320 12	350 07				
	140530	P	000 00	+++ ++	260 07	210 10	190 15	260 16	270 27	270 38	270 82	270 71	270 60	260 31	320 26	320 17	050 08				
	141130	T	240 11	+++ ++	270 16	300 12	310 14	300 16	290 23	290 52	280 78	280 78	280 65	290 46	320 20	330 11					
	141730	P	280 05	+++ ++	310 05	300 04	280 03	310 04	200 05	230 05	320 14	270 26	290 24	310 26	310 19	310 17	360 07	040 04			
HEMSBY 03496	132330	T	120 09	+++ ++	220 09	290 17	300 21	300 24	300 35	300 37	310 47	300 56	300 61	310 56	310 30						
	140535	P	090 14	+++ ++	160 03	280 06	270 10	280 21	290 25	290 29	290 49	290 62	300 67	300 51	320 27	330 18	010 11	100 06			
	141130	T	090 13	+++ ++	080 07	340 02	300 04	270 11	260 19	300 49	290 82	290 86	290 64	300 37	320 25	310 06	040 03	110 11			
	141730	P	050 12	+++ ++	030 10	360 04	340 08	330 13	330 13	330 18	310 55	290 89	300 71	310 34	310 25	310 18	340 08	080 05			
CRAWLEY 03774	132330	T	000 00	+++ ++	250 18	250 16	260 14	260 18	270 30	290 36	290 40	290 45	290 51	300 51	310 28	330 12	020 10				
	140530	P	270 03	+++ ++	270 07	240 18	250 21	260 25	270 31	290 52	290 52	290 55	290 56	290 46	300 22						
	141110	P	300 10	+++ ++	290 11	290 09	300 12	310 22	300 41	290 52	290 53	290 57	290 68	290 49	310 33	310 12	320 06	080 04	130 06	120 09	280 04
	141730	P	010 04	+++ ++	350 16	340 18	310 21	300 21	300 36	290 48	290 56	290 64	290 71	300 38							
CAMBORNE 03808	132330	T	280 10	+++ ++	300 21	300 21	250 26	260 30	270 40	260 41	270 42	270 48	270 49	280 45	280 27	300 10	320 06	040 12	140 06	P090 10	
	140530	P	300 08	+++ ++	310 17	310 24	290 33	290 32	280 37	280 32	280 38	280 51	280 62	270 42	270 18	310 16					
	141130	T	290 15	+++ ++	310 14	310 15	290 23	290 27	300 32	280 35	280 42	280 48	270 54	280 52	280 26	270 11	300 07	010 04	100 18		
	141730	P	310 12	+++ ++	330 09	310 12	300 17	280 23	280 32	280 38	270 42	270 47	280 55	280 49	280 18	300 13					
VALENTIA 03953	132330	T	220 09	230 12	+++ ++	260 21	+++ ++	280 29	+++ ++	270 80	270 78	260 72									
	141130	T	300 08	300 09	+++ ++	310 16	+++ ++	280 30	+++ ++	280 36	280 41	270 44	+++ ++	270 38	+++ ++	250 06					
Ocean Weather Station 'I' 59°00'N 19°00'W	140001	T	130 17	+++ ++	140 18	140 15	110 24	100 26	160 35	160 27	130 39	150 47	150 46	190 27	210 27	170 09					
	140600	P	135 20	+++ ++	160 17	180 15	180 15	170 37	140 44	140 50	150 43	150 42	150 51	150 55	150 39	190 20	210 19	220 13			
	141200	T	210 12	+++ ++	200 18	190 20	190 21	190 22	170 29	170 37	160 50	170 56	170 60	170 43	170 20						
	141800	P	180 20	+++ ++	200 23	210 27	190 29	190 31	180 35	190 40	190 55	180 66	180 73	190 58	190 33	180 12	150 06				
Ocean Weather Station 'J' 52°30'N 20°00'W	132300	T	230 13	230 13	+++ ++	250 30	+++ ++	260 24	+++ ++	240 40	230 50	230 76									
	140600	P	180 20	+++ ++	220 29	220 27	220 23	210 31	210 34	210 56	210 58	210 60									
	141100	T	200 08	200 10	+++ ++	200 31	+++ ++	170 28	+++ ++	190 64	200 60										
	141800	P	180 20	+++ ++	180 25	180 22	180 34	180 36	180 40	180 56											
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				

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	25500m 070 11 10800/1 18300/2 034mb 100 09	
STORNOWAY 03026	060mb 050 09 19400m 090 08 10735/5 17710/2 118mb 340 08 08070/2 17360/2	
SHANWELL 03170	28000m 060 03 15200m 320 17 P26000m 100 14 17700m 010 09 10330/1 10740/5 11170/1	
ALDERGROVE 03917	04000/3 08800/7 09250/7	
AUGHTON 03322	06000m 280 63 11400m 260 46 20400m 060 06 05330/0 05720/0 06050/0 11310/1 22500m 200 05 17200/1	270 87 07070m 280 81 09270m
HEMSBY 03496	120mb 330 23 23100m 040 07 444mb 290 75 044mb 090 11 06300m 320 34 23100m 180 05 06290/0 07080/0 10070/1 10370/1 10800/1	310 63 11120m 300 69 10200m 290 89 08970m 290 93 09370m
CRAWLEY 03774	14700m 300 25 28800m 130 09 33000m 150 09 04020/0 10810/1 11550/1	290 61 09380m 290 71 10440m 300 72 10570m
CAMBORNE 03808	P28200m 120 08 16800m 310 10 11840/1 12860m 280 33 18000m 330 05	280 63 10130m
VALENTIA 03953	794mb 280 24 624mb 270 40 567mb 270 58 534mb 270 69 331mb 260 72 237mb 250 75 892mb 310 16 772mb 310 05 685mb 270 30 216mb 270 44 171mb 260 18 092mb 240 04	280 81 05870m
Ocean Weather Station 'I' 59°00'N 19°00'W	080mb 150 06 15000m 170 27 21300m 220 11 01400/3 03980/6 11900/4 177mb 170 30 12900m 190 43 15000m 180 20 18600m 150 06 06000/0 11690/1 12600/1	170 61 10620m 190 78 10600m
Ocean Weather Station 'J' 52°30'N 20°00'W	960mb 220 15 820mb 260 26 724mb 260 22 604mb 240 46 406mb 230 50 264mb 230 76 00300m 200 22 00600m 210 26 03900/0 954mb 200 20 880mb 200 30 863mb 200 31 754mb 180 26 696mb 170 28 484mb 190 62 00300m 180 22 00600m 180 24 06000m 180 63 11900/0	220 80 08770m 190 64 05590m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The further amplification of new troughs in mid-Atlantic and over eastern Europe has not materially altered the longitude of the axes of the major troughs in the long wave pattern. The axis of the intervening ridge also remains at about 10°W. though the ridge itself has weakened a little while the old trough, which yesterday appeared to be relaxing and moving round the ridge as a minor feature, has split with part cutting eastwards across the British Isles through the middle of the ridge.

AVERAGE AND EXTREME VALUES 1951-55
MAY

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	22145	-50.1	-46	-55	...	(10)
60	19500	-50.3	-43	-60	102	2
100	16180	-51.4	-44	-62	283	3
150	13540	-51.0	-42	-62	288	7
200	11680	-53.8	-39	-69	288	10
300	9070	-48.8	-37	-56	281	11
400	7125	-35.0	-27	-49	282	10
500	5530	-23.2	-15	-38	283	8
700	2985	-7.0	1	-20	289	4
850	1450	0.9	11	-10	310	2

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9
60	19480	-52.8	-46	-62	69	1
100	16195	-53.8	-44	-61	284	5
150	13590	-53.3	-46	-65	284	10
200	11750	-55.3	-42	-67	282	15
300	9140	-47.7	-38	-56	274	15
400	7180	-33.4	-23	-48	270	13
500	5580	-21.4	-11	-34	267	11
700	3015	-5.3	6	-16	258	7
850	1470	3.0	15	-6	254	5

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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

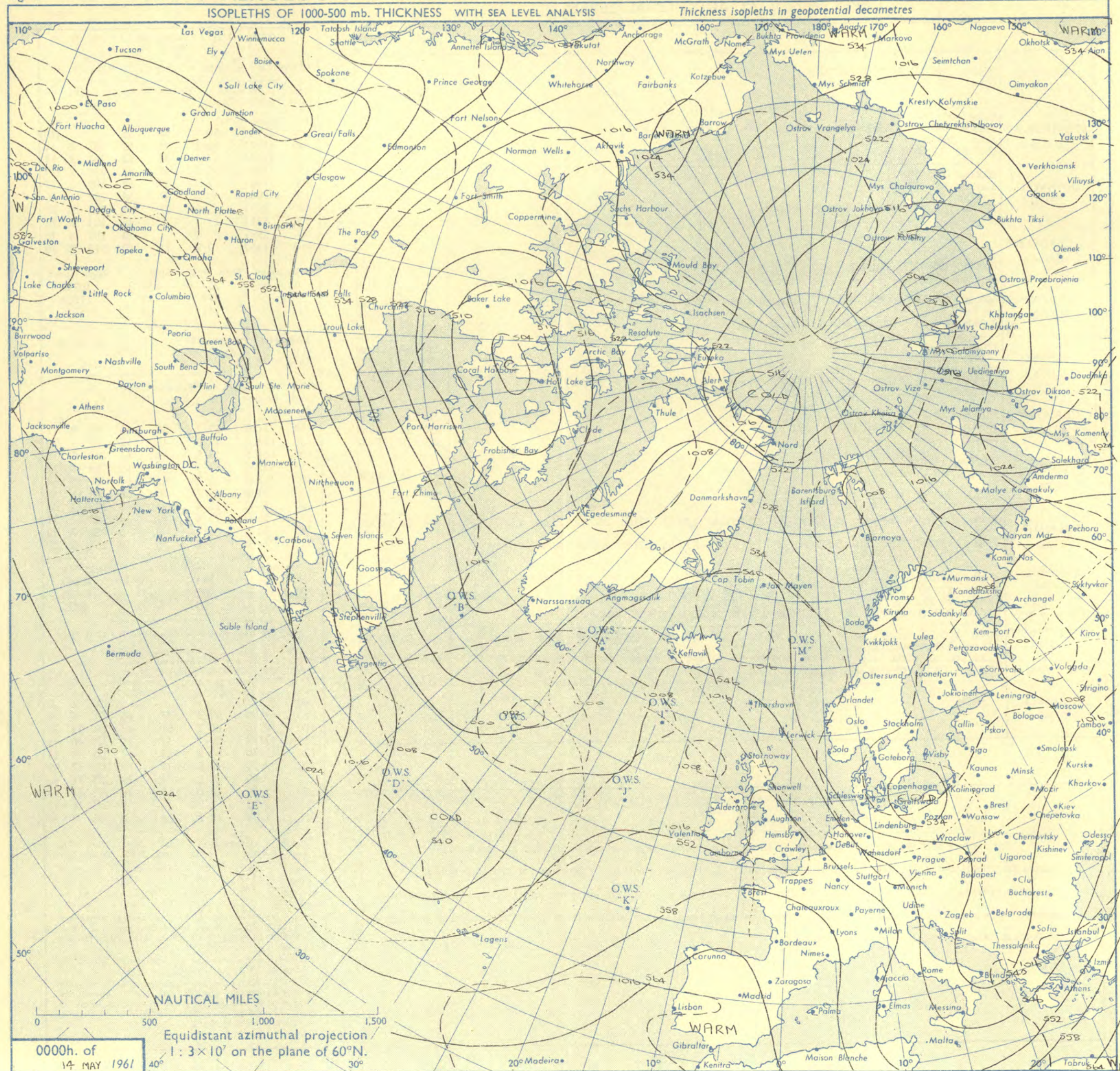
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	...	...	...	...	180	2
60	19500	-59.3	-57	-66	270	6
100	16315	-60.2	-51	-67	270	24
150	13775	-59.1	-49	-71	275	40
200	11970	-58.9	-48	-67	275	48
300	9355	-43.8	-39	-49	275	42
400	7365	-28.2	-23	-38	275	34
500	5720	-16.0	-12	-28	275	27
700	3095	2.2	9	-9	275	16
850	1500	12.2	24	2	275	9

Tropo- pause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb. 117	°C -65.1	mb. ...	mb. 80	°C ...	°C -71
Lower	199	-60.9	365	...	-41	...

* 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.

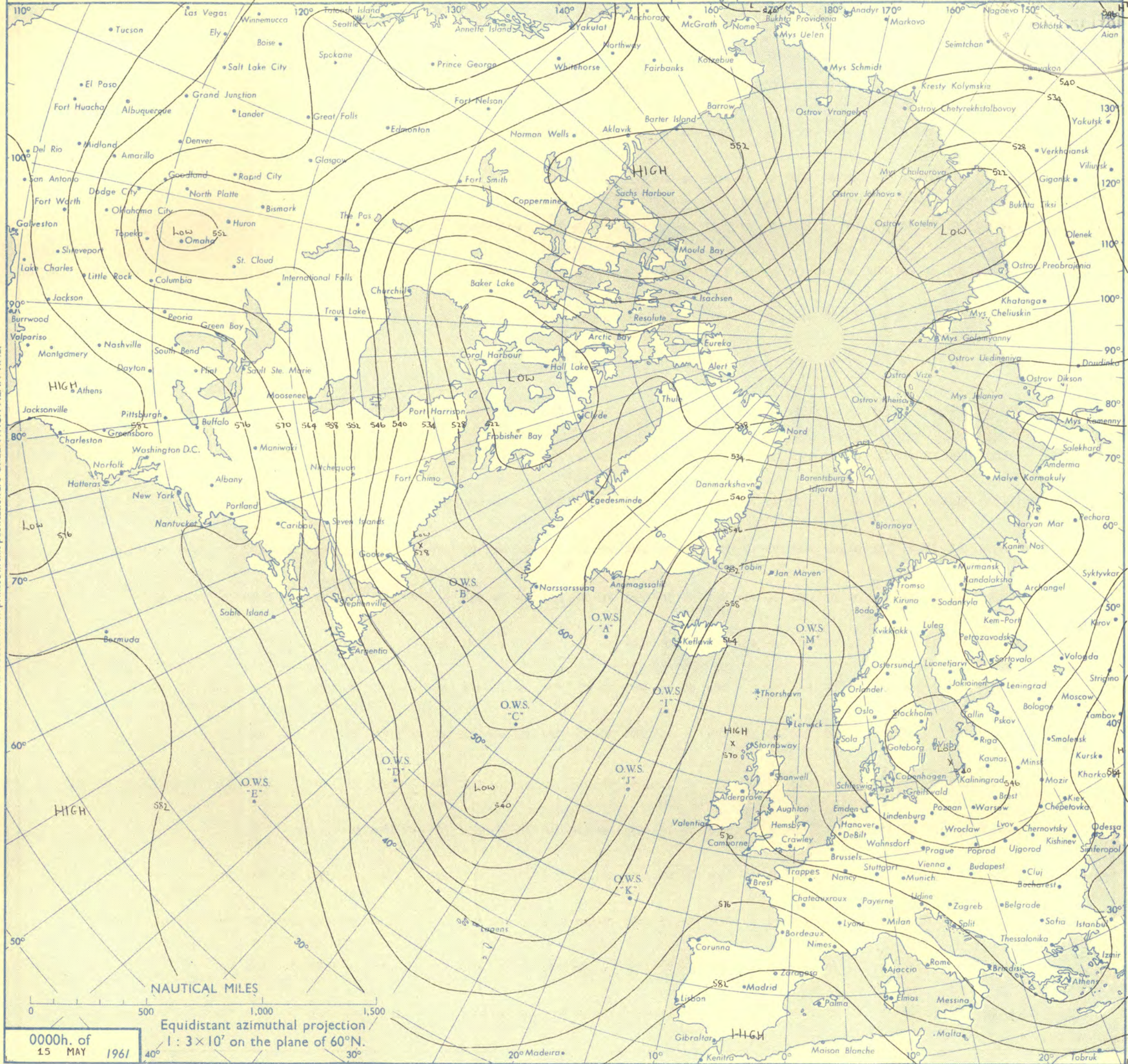
Notes: No vector average winds and no extreme values
for any element are given for less than 10 observations.
Otherwise no averages are given for less than 3 observa-
tions and average values based on less than 10 observa-
tions are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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

0000h. of
15 MAY 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	142330	082	07	03	185	06	01	1502	04	19	3054	05	23	5625	19	38	7241	33	47	9196	50	++	11766	59	13598	54	16212	53												
	151130	082	09	05	219	07	02	1534	04	08	3092	03	19	5676	19	33	7299	32	45	9254	48	++	11837	60	13659	55	16260	54	18547	55	20700	55								
STORNOWAY 03026	150040	013	09	07	175	09	05	1509	04	00	3072	02	17	5687	17	36	7313	31	48	9239	47	++	11870	59	13692	55	16299	53	18594	53										
	151225	013	13	08	208	11	06	1543	03	05	3102	01	21	5712	18	40	7332	32	++	9295	48	++	11864	62	13679	56														
SHANWELL 03170	142330	005	08	05	179	08	02	1500	04	07	3057	03	21	5658	18	35	7283	31	46	9258	47	++	11848	55	13696	53														
	151130	005	11	02	210	07	00	1530	05	09	3086	03	16	5681	18	31	7303	31	42	9272	48	++	11858	57	13695	53	16312	52	18612	53	20786	52	24105	49						
ALDERGROVE 03917	142330	077	10	09	166	10	08	1499	02	01	3055	01	15	5662	18	35	7285	32	47	9250	47	++	11831	59	13650	55	16245	55												
	151130	077	14	08	194	11	07	1526	01	01	3085	00	24	5703	18	44	7331	31	++	9309	47	++	11891	59	13722	54	16329	52												
AUGHTON 03322	142330	056	10	08	163	09	05	1494	02	01	3044	04	18	5631	19	37	7251	31	47	9224	47	++	11848	53	13695	54	16303	54	18587	55	20739	54								
	151130	056	11	05	194	09	05	1516	04	04	3074	03	23	5671	18	42	7292	32	++	9257	48	++	11848	55	13687	52														
HEMSBY 03496	142349	012	08	04	158	08	04	1480	04	01	3031	05	18	5598	21	32	7206	33	43	9157	49	++	11777	52	13641	52	16262	52	18553	54										
	151130	012	10	04	184	08	03	1493	03	07	3036	05	19	5614	20	33	7230	32	44	9195	47	++	11811	51	13683	51	16315	52	18618	53	20786	52								
CRAWLEY 03774	142348	144	10	07	154	09	07	1488	04	01	3041	04	16	5607	21	24	7221	31	39	9205	45	++	11836	54	13688	53	16294	54	18580	55										
	151130	144	13	06	179	12	04	1511	03	01	3062	05	18	5648	18	33	7273	31	44	9214	47	++																		
CAMBORNE 03808	142330	088	11	10	161	11	09	1501	04	01	3064	01	10	5673	17	23	7310	28	34	9295	46	++	11881	61	13703	55	16286	55	18556	57										
	151130	088	15	13	169	13	09	1509	05	01	3079	03	11	5698	18	35	7322	31	46	9293	47	++	11878	58	13715	53	16322	55												
VALENTIA 03953	150001	014	08	06	171	08	06	1503	07	00	3075	00	07	5700	17	24	7340	29	33	9330	44	++	11930	63	++++	++	16360	53												
	151130	014	14	09	172	12	08	1507	04	00	3078	01	10	5690	19	27	7310	31	36	9290	45	++	11890	58																
Ocean Weather Station 'I' 59°00'N 19°00'W	150001		10	09	128	09	07	1456	01	10	3000	06	15	5550	23	24	7160	32	34	9120	48	++	11700	55	13550	52	16180	51	18380	54										
	151200		11	09	129	10	09	1459	01	00	2998	07	19	5560	21	32	7170	33	44	9130	46	++	11750	53	13620	50	16280	49	18610	51	20800	52								
Ocean Weather Station 'J' 52°30'N 20°00'W	142300		11	11	105	11	10	1442	02	02	2986	05	09	5560	18	24	7190	29	35	9190	44	++	11780	59	13640	51	16280	++												
	151100		12	10	112	11	09	1448	02	00	2997	04	10	5580	19	30	7190	32	40	9140	51	++	11740	50	13620	50	16260	51	++++	++	20740	50								

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	03 855++	023	013	919 779	908 01- 04- 887 05 08- 848 04 22- 651 08- 25- 621 10- 25- 592 13- 30- 539 16- 35- 502 19- 38- 386 35- 49- 216 11280 60- 266 56- 257 57- 216 60- 169 54- 100 53- 080 54-	216	11280	60-
	02 855++	027	017	920 743	993 05 00 897 02- 04- 879 05 01- 858 ++ 08- 751 00 17- 474 21- 35- 366 37- 49- 234 60- 209 61- 162 55- 100 234 10860 60- 54- 045 56-	234	10860	60-
STORNOWAY 03026	03 4573+	021	020	739	988 ++ 04 979 09 05 856 03 00 845 05 00 820 05 09- 709 02- 17- 604 05- 23- 431 27- 44- 390 ++ 49- 254 56- 217 11350 62- 217 62- 181 59- 171 55- 119 52- 054 54-	217	11350	62-
	02 00900	025	024	748	940 08 04 894 ++ 01- 858 ++ 02- 855 02 03- 842 ++ 12- 835 04 13- 736 ++ 16- 694 ++ 23- 594 07- 29- 435 205 11700 62- 27- 48- 295 49- 238 59- 205 62- 165 56- 121 54-	205	11700	62-
SHANWELL 03170	02 5563+	002	021	757	017 ++ 01 959 ++ 02 888 01 00 859 05 04- 823 ++ 12- 728 02- 21- 666 05- 21- 632 05- 23- 513 16- 33- 379 219 11280 62- 35- 49- 279 51- 219 62- 215 56- 133 53-	219	11280	62-
	02 45500	026	025	769	986 05 01- 899 00 03- 887 05 03- 864 06 08- 721 03- 17- 629 07- 20- 577 10- 25- 350 39- 50- 249 57- 183 249 10480 57- 58- 165 53- 100 52- 074 54- 036 52- 030 49- Pressures doubtful above 040mbs.	249	10480	57-
ALDERGROVE 03917	10 35600	020	011	782	999 ++ 08 940 06 05 926 07 05 844 02 01 808 02 02- 778 ++ 03- 763 01- 05- 725 ++ 09- 709 01- 12- 658 02- 228 11000 61- 21- 379 ++ 49- 352 40- ++ 228 61- 215 58- 183 60- 176 56- 076 55-	228	11000	61-
	04 355++	023	014	697 769	004 11 07 953 ++ 06 842 00 02- 828 04 00 810 ++ 06- 792 ++ 08- 761 01- 09- 749 ++ 09- 741 ++ 16- 712 01 214 11440 62- 19- 696 ++ 25- 661 01- 23- 445 28- ++ 249 56- 214 62- 196 58- 099 52- 074 54-	214	11440	62-
AUGHTON 03322	02 855++	020	013	806	001 09 05 972 09 06 831 01 02- 789 ++ 05- 735 ++ 11- 720 03- 15- 652 ++ 25- 640 ++ 22- 541 14- 33- 343 -256 10270 55- 40- ++ 256 55- 196 52- 182 55- 128 52- 061 55- 044 53-	-256	10270	55-
	02 855++	024	017	879 759	998 08 04 955 05 03 895 01 00 889 02 01 865 05 01- 853 04 04- 829 04 04- 795 ++ 19- 765 01 27- 742 ++ 19- 698 03- 23- 669 03- 26- 539 14- 46- 345 40- ++ 228 60- 198 55- 185 57- 150 52-	228	11030	60-
HEMSBY 03496	02 4093+	019	018	774	909 01 00 885 06 02- 870 ++ 08- 853 04 01- 840 03 04- 829 ++ 02- 780 00 13- 710 04- 18- 682 ++ 17- 641 266 09940 54- 09- 20- 610 ++ 19- 570 14- 24- 530 17- 27- 356 40- 49- 278 53- 266 54- 192 51- 103 53- 056 54-	266	09940	54-
	02 885++	022	021	910 790	929 01 01- 856 04- 06- 831 01 11- 827 01 17- 802 01 21- 728 ++ 25- 712 04- 20- 649 08- 18- 627 ++ 20- 617 09- 26- 590 ++ 30- 545 15- 28- 353 39- 50- 282 50- 231 57- 206 51- 103 52- 038 52-	231	10900	57-
CRAWLEY 03774	02 864++	019	001	785	952 06 04 910 05 03 883 06 01 810 ++ 05- 779 ++ 05- 740 ++ 08- 720 04- 12- 702 03- 15- 637 ++ 23- 632 11- 21- 620 ++ 15- 576 13- 16- 517 20- 23- 464 25- 30- 422 ++ 33- 400 ++ 39- 358 ++ 48- 229 55- 138 52- 065 55-	229	10970	55-
	02 656++	021	004	774	901 03 00 886 05 01 869 ++ 01 820 01 02- 803 02 03- 720 ++ 11- 709 ++ 17- 662 ++ 22- 580 ++ 24- 549 13- 282 +++++ 50- 29- 357 37- 50- 282 50-	282	+++++	50-
CAMBORNE 03808	02 00901	020	009	714	967 10 06 858 04 01- 824 01 04- 803 04 12- 796 ++ 20- 742 ++ 08- 658 03- 12- 604 08- 15- 575 09- 19- 554 209 11600 62- ++ 21- 502 17- 23- 467 21- 28- 394 29- 35- 334 40- 46- 253 56- 209 62- 188 56- 093 54- 058 57-	209	11600	62-
	03 41402	020	010	667	986 11 08 930 07 05 913 08 04 845 05 02- 725 01 11- 705 04 09- 686 02 14- 595 08- 21- 567 09- 28- 514 16- 33- 375 236 10830 60- 35- 49- 236 60- 145 52- 094 55-	236	10830	60-
VALENTIA 03953	02 11500	021	019	700	937 07 05 885 03 01 852 07 00 806 04 12- 786 03 06- 765 03- 04- 653 02- 10- 544 11- 19- 462 21- 27- 368 198 12000 64- 33- 37- 244 56- 198 64- 171 54- 157 55- 146 53- 087 53-	198	12000	64-
	02 725++	021	019	720	981 10 06 860 02 01- 835 06 02- 821 05 07- 529 14- 22- 498 19- 27- 402 31- 36- 252 53- 219 61- 184 56- 219 11300 61-	219	11300	61-
Ocean Weather Station 'I' 59°00'N 19°00'W	01 2567+	015	015	790	963 ++ 04 935 ++ 01- 913 ++ 01- 858 01 10- 821 01 15- 798 ++ 20- 748 02- 09- 725 ++ 10- 712 06- 12- 698 229 10700 61- 06- 15- 653 10- 14- 618 ++ 14- 400 32- 34- 345 40- 43- 229 61- 209 61- 197 54- 095 51- 066 54-	229	10700	61-
	03 75600	016	016	833	953 ++ 06 898 04 02 829 ++ 01- 808 02- 08- 794 ++ 12- 761 03- 11- 747 ++ 10- 693 ++ 21- 643 ++ 13- 595 228 10900 58- 14- 16- 536 16- 20- 480 ++ 36- 346 40- 50- 228 58- 202 53- 169 50- 103 49- 043 53-	228	10900	58-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 22572	012	012	815	780 02- 09- 726 03- 07- 490 19- 24- 341 36- 43- 248 54- 210 62- 174 51- 109 50- 210 11500 62-	210	11500	62-
	01 15540	013	013	830	825 00 01- 780 00 03- 627 09- 16- 576 11- 28- 516 17- 28- 414 30- 38- 331 44- 285 55- 243 57- 211 50- 107 243 09900 57- 51- 072 53- 040 48-	243	09900	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	142330	T	040 10	+++ ++	010 08	030 15	010 19	010 18	010 21	010 29	360 32	340 38	350 37	360 26	340 13	360 08					
	150530	P	020 12	+++ ++	020 13	010 16	010 18	020 18	020 19	020 22	010 29	020 32	020 31	010 23							
	151130	T	030 13	+++ ++	030 14	030 14	040 19	050 20	040 16	030 21	040 27	040 31	030 29	030 25	360 11	030 07	020 12	120 03			
	151730	P	050 11	+++ ++	030 11	040 12	050 17	040 13	030 13	030 17	020 18	030 20	040 25	020 19	010 13	030 04	020 07	040 04	120 09		
STORNOWAY 03026	150040	T	000 00	+++ ++	180 04	120 03	020 03	010 07	320 12	340 12	320 17	320 16	320 13	340 13	320 09	330 06	070 05				
	150530	P	000 00	+++ ++	290 03	210 05	090 09	070 05	340 11	320 13	320 19	320 16	330 12	350 09	360 04	330 04	020 03				
	151130	P	000 00	+++ ++	140 01	250 04	150 07	110 05	360 10	340 07	350 08	360 08	010 08	010 10	310 04	360 03					
	151730	P	050 08	+++ ++	030 03	170 04	140 07	110 09	020 08	360 09	360 05	060 06	060 08	040 07							
SHANWELL 03170	142330	T	000 00	+++ ++	020 06	020 08	360 09	010 10	010 18	010 23	010 34	020 38	020 40	360 23	330 18						
	150530	P	000 00	+++ ++	020 08	020 11	030 15	020 15	360 20	350 34	360 35	360 39	360 36	350 21	360 15	350 09					
	151130	T	090 06	+++ ++	030 10	030 17	030 18	030 15	010 22	010 32	360 32	350 33	360 37	360 23	330 11	340 08	120 08	260 03	P110 06	090 07	
	151730	P	120 06	+++ ++	020 14	020 22	030 21	020 18	030 17	010 23	010 27	010 31	010 33	360 16	350 16	340 09	360 09				
ALDERGROVE 03917	142330	T	070 07	+++ ++	080 09	060 07	100 10	100 12	050 14	050 15	050 21	030 19	010 31	350 16	320 09	320 07	P300 03	100 03			
	150530	P	070 07	+++ ++	130 05	080 04	060 06	070 06	020 09	030 13	010 14	010 09	060 08	350 09	310 08	310 06	360 05	080 10	100 14		
	151130	T	090 07	+++ ++	070 07	060 06	080 04	040 08	020 11	010 11	010 16	360 08	280 09	310 08	320 07	010 07					
	151730	P	100 08	+++ ++	060 07	080 10	080 10	070 10	020 14	020 12	010 16	340 13	350 12	350 11	350 04	310 03	310 05	070 07	170 07		
AUGHTON 03322	142359	P	060 07	+++ ++	080 04	080 06	080 11	060 14	070 22	050 32	050 47	050 44	010 39	340 20	320 20	340 07	340 03				
	150530	P	080 10	+++ ++	050 02	030 07	030 14	020 15	020 17	020 24	020 29	020 30	020 32	350 18	330 22	330 14	360 04				
	151130	T	070 07	+++ ++	050 06	010 09	020 13	010 16	350 25	360 32	360 31	350 36	330 31	340 18							
	151730	P	070 08	+++ ++	070 11	030 12	010 16	010 18	020 18	010 23	010 31	360 36	340 37	340 17	330 14	340 10	340 07				
HEMSBY 03496	142349	T	040 05	+++ ++	360 13	350 16	340 11	350 12	340 13	010 14	040 37	030 28	300 34	310 35	320 27	320 10	360 05	P010 02			
	150530	P	020 09	+++ ++	010 12	010 12	350 16	340 17	360 24	010 29	360 37	010 46	360 38	320 33	330 20	310 18					
	151130	T	010 15	+++ ++	020 10	360 10	340 18	350 21	350 31	340 40	350 45	350 50	350 48	330 32	320 19	340 14	340 03	200 04			
	151730	P	030 22	+++++	030 14	030 15	020 16	010 20	010 31	010 43	360 51	360 54	350 48	340 31	330 20	320 15	050 11				
CRAWLEY 03774	142348	T	060 08	+++ ++	010 11	330 13	340 13	320 10	250 22	270 52	270 70	280 73	280 63	300 39	310 23	310 11	P330 07	360 07			
	150535	P	060 10	+++ ++	050 13	050 08	350 07	030 09	050 17	060 42	060 58	040 43	320 15	310 25	320 20	310 13	350 10	120 05	080 06	100 09	
	151110	P	050 08	+++ ++	020 10	020 08	020 10	030 13	020 23	010 30	010 30	360 30	350 27	320 33	310 23	310 14	310 05	100 03	160 09	110 13	130 11
	151730	P	080 04	+++ ++	030 10	020 15	350 20	380 21	360 21	350 25	340 34	340 41	330 44	330 31							
CAMBORNE 03808	142330	T	340 04	+++ ++	360 13	020 07	300 18	300 27	290 35	280 40	280 40	290 41	270 45	270 41	300 19	280 08	310 04				
	150530	P	000 00	+++ ++	050 08	040 09	020 10	330 13	030 15	040 23	040 15	320 26	310 24	300 26	280 13	290 13					
	151130	T	100 14	+++ ++	080 12	070 10	070 09	070 07	060 08	070 05	050 02	360 05	320 15	280 18	270 10	300 10					
	151730	P	110 09	+++ ++	070 13	080 15	110 11	100 08	070 04	030 04	050 02	250 05	290 10	280 17	270 13	300 12	320 03				
VALENTIA 03953	150001	P	000 00	+++ ++	030 05	310 05	290 05	320 05	020 03	250 04	230 07	240 05	250 08	230 14	220 08	230 09					
	151130	T	320 03	240 03	+++ ++	120 10	+++ ++	120 04	+++ ++	170 14	170 21	190 18	+++ ++	220 11							
Ocean Weather Station 'I' 59°00'N 19°00'W	150001	T	180 17	+++ ++	180 15	200 21	190 29	190 29	160 38	180 45	180 65	180 74	190 81	180 47	180 18	180 09	000 00				
	150600	P	135 20	+++ ++	160 27	170 35	180 36	170 33	170 42	180 54	170 54	170 66	170 69	170 44	170 14						
	151200	T	170 18	+++ ++	180 28	180 30	170 33	170 33	170 39	180 44	180 62	180 80	170 80	170 51	180 34	160 21	150 09	160 08			
	151800	P	180 20	+++ ++	180 33	200 27	200 28	180 27	170 37	190 43	180 45	200 54	180 45	200 30	180 18						
Ocean Weather Station 'J' 52°30'N 20°00'W	142300	T	150 17	150 20	+++ ++	180 34	+++ ++	190 22	+++ ++	200 48	200 62	200 71									
	150600	P	180 20	+++ ++	180 27	180 21	180 23	180 18	200 22	200 42	200 58	200 52									
	151100	T	150 17	160 26	+++ ++	170 20	+++ ++	170 24	+++ ++	190 47	180 36										
	151800	P	135 20	+++ ++	160 26	150 24	150 20	150 20	160 24	180 37	190 42										
LARKHILL 03743	150630	P	060 07	+++ ++	040 10	020 09	010 09	040 12	040 33	030 34	030 43	040 45	010 35	320 21	300 14	310 09					
	151015	P	030 07	+++ ++	060 08	080 08	060 12	040 16	020 26	020 29	360 31	360 34	360 24	320 17	300 18	320 12	330 06				

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE	SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL Surf. °C level	m °C °C	m °C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C
151227	56.2°N 01.3°W	026 018 920	061 07 02	207	05 02	1058 02- 03-	1515 03 16-	2003 01 19-						
Cloud :— 8/8 Sc. 3900 to 4700 ft.														
Inversion Levels :— 875 to 850 -22°C to +22°C Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE	SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL Surf. °C level	m °C °C	m °C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C
151422	56.6°N 04.7°E	023 015 840	061 08 01	186	06 07-	1049 03 07-	1512 01 08-	1993 03- 11-	05- 17-	3042 07- 25-				
Cloud :— 1/8 Ac. at 10000 ft. 1/8 Ci. at 25000 ft.														
Inversion Levels :— 968 to 950 mb +42°C to +6°C 833 to 40% 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

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STATION		MAX. WIND
LERWICK 03005	090mb 030 09 12900m 010 08	
STORNOWAY 03026	060mb 030 04 19000m 050 04 18000m 040 04 13100m 350 06	
SHANWELL 03170	222mb 030 38 17800m 320 09 20400m 030 10	
ALDERGROVE 03917	080mb 020 03 23000m 080 08 25500m 110 09 084mb 250 03 25800m 070 05	
AUGHTON 03322	10980/1 20100m 040 07 160mb 350 12 19200m 330 07	
HEMSBY 03496	272mb 340 22 P22500m 100 10 10660/5 043mb 120 07	
CRAWLEY 03774	P22500m 130 05 27600m 110 05 04470/0 09800/7 28800m 140 09 33000m 070 02 34200m 140 11 12900m 310 23	280 74 09140m
CAMBORNE 03808	060mb 290 04 18000m 300 09 02300/5 03880/2 07600/5 18600m 330 02 08950/9	
VALENTIA 03953	00300m 080 05 00600m 060 05 16500m 230 08 981mb 160 03 821mb 110 06 529mb 170 15 252mb 190 12 184mb 220 16	
Ocean Weather Station 'I' 59°00'N 19°00'W	210mb 180 61 168mb 180 33 12900m 170 44 15000m 170 14 11730/1 219mb 170 66 047mb 160 08 12900m 170 26 15600m 240 15 07510/0 10300/1	190 84 10500m 170 74 10310m 180 87 09080m 170 72 09800m
Ocean Weather Station 'J' 52°30'N 20°00'W	780mb 180 27 726mb 190 23 490mb 200 50 341mb 200 65 248mb 200 80 00300m 170 22 00600m 180 26 04000/0 825mb 170 16 780mb 170 24 627mb 190 36 576mb 200 38 516mb 200 50 441mb 180 36 00300m 150 23 00600m 160 26 07500m 190 42	
LARKHILL 03743	17400m 320 09 11100/5 11600/7	

NOTES ON THE AEROLOGICAL SITUATION

Very cold air, in association with a low in the 500mb pattern, lies over the north of Hudson Bay and remains the most noteworthy feature of that sector. Strong westerlies flank it across North America and are still giving rise to progressive troughs passing out into the Atlantic. Downstream, meanwhile, from Spain to the Norwegian Sea, a ridge goes on holding, maintaining an anticyclonic pattern across the British Isles, with cold air just to the east.

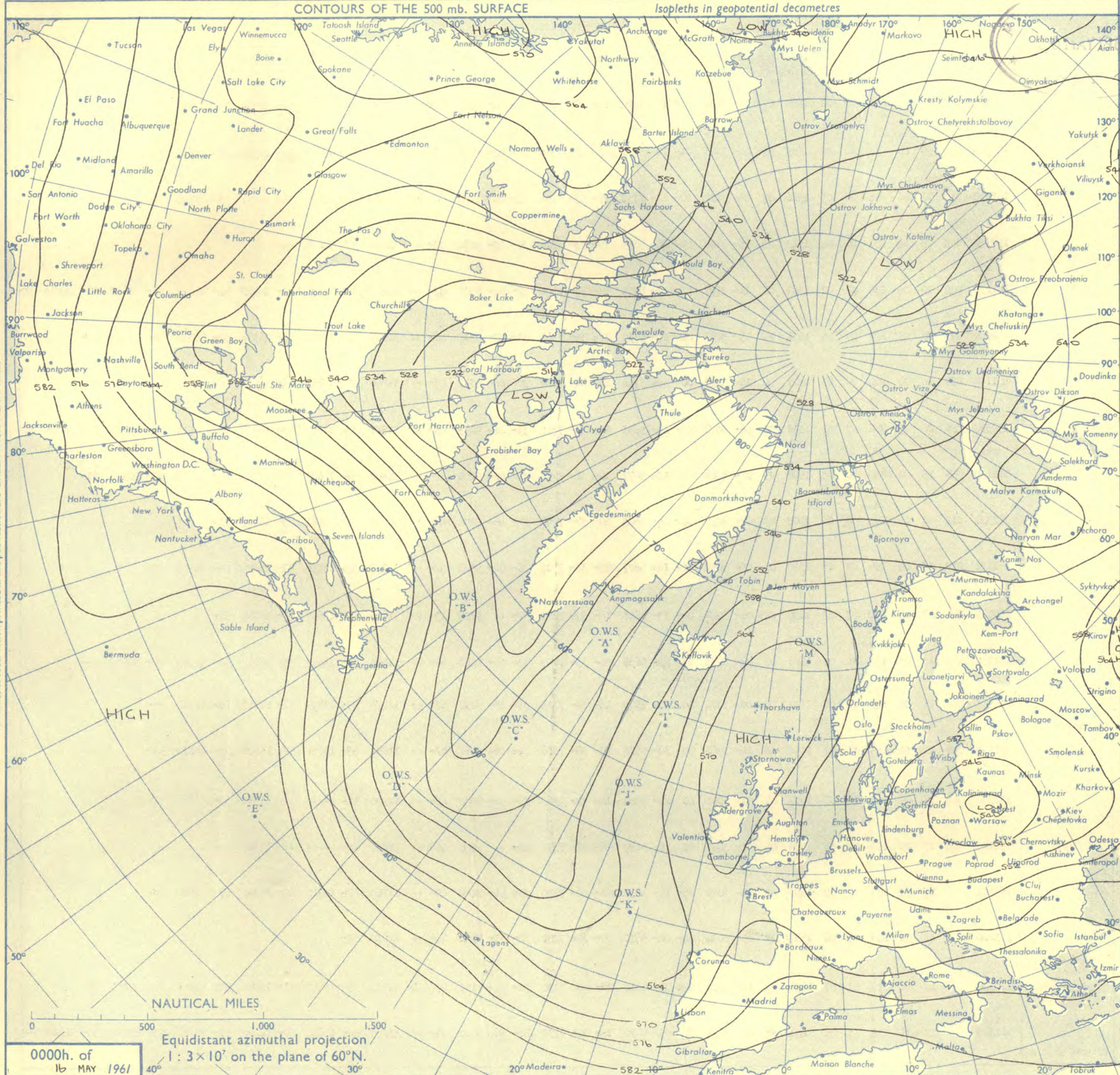
AVERAGE AND EXTREME VALUES 1951-55
MAY

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	22145	-50.1	-46	-55	...	...	(10)
60	19500	-50.3	-43	-60	102	2	11
100	16180	-51.4	-44	-62	283	3	13
150	13540	-51.0	-42	-62	288	7	19
200	11680	-53.8	-39	-69	288	10	27
300	9070	-48.8	-37	-56	281	11	36
400	7125	-35.0	-27	-49	282	10	32
500	5530	-23.2	-15	-38	283	8	26
700	2985	-7.0	1	-20	289	4	20
850	1450	0.9	11	-10	310	2	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		254	-57.8		10230		
Max.		479	-39		12800		
Min.		171	-69		5545		
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	22100	-52.2	-50	-58	85	9	11
60	19480	-52.8	-46	-62	69	1	10
100	16195	-53.8	-44	-61	284	5	14
150	13590	-53.3	-46	-65	284	10	22
200	11750	-55.3	-42	-67	282	15	34
300	9140	-47.7	-38	-56	274	15	45
400	7180	-33.4	-23	-48	270	13	38
500	5580	-21.4	-11	-34	267	11	31
700	3015	-5.3	6	-16	258	7	23
850	1470	3.0	15	-6	254	5	20
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		244	-58.0		10560		
Max.		405	-39		13685		
Min.		158	-72		6825		
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	...	...	...	...	180	2	8
60	19500	-59.3	-57	-66	270	6	10
100	16315	-60.2	-51	-67	270	24	26
150	13775	-59.1	-49	-71	275	40	43
200	11970	-58.9	-48	-67	275	48	53
300	9355	-43.8	-39	-49	275	42	50
400	7365	-28.2	-23	-38	275	34	40
500	5720	-16.0	-12	-28	275	27	32
700	3095	2.2	9	-9	275	16	23
850	1500	12.2	24	2	275	9	16
Tropo- pause		Average	Max.	Min.	Max.	Min.	
		Press.	Press.	Press.	Temp.	Temp.	
Upper		mb. 117	°C -65.1	mb. ...	°C 80	°C ...	°C -71
Lower		199	-60.9	365	...	-41	...

* 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.



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

0000h. of
16 MAY 1961

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

STATION	YYGG _{gg}	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	152330	082	07	03	228	06	01	1550	06	10	3114	02	15	5709	18	31	7329	32	44	9290	48	++	11853	62	13677	54	16286	53	18590	52												
	161130	082	08	05	237	06	02	1558	07	06	3132	02	13	5726	19	28	7347	31	40	9321	47	++	11895	61	13722	54	16338	53	18646	52	20825	52										
STORNOWAY 03026	152330	013	09	08	211	10	06	1555	07	04	3121	01	16	5732	17	35	7360	31	47	9332	47	++	11918	60	13747	54	16358	52	18666	52												
	161130	013	11	06	226	08	03	1566	07	18	3132	02	22	5732	18	33	7354	31	44	9319	48	++	11880	64	13676	56	16257	55	18537	54	20669	57										
SHANWELL 03170	152330	005	09	04	231	06	02	1543	03	12	3100	02	21	5695	19	33	7316	31	45	9288	47	++	11864	57	13698	54																
	161130	005	10	04	230	06	02	1549	04	11	3108	02	18	5718	18	32	7340	32	44	9308	47	++	11884	59	13719	53	16342	51	18651	51	20839	51	24170	50								
ALDERGROVE 03917	152330	077	06	05	203	09	04	1534	05	09	3097	01	16	5710	17	35	7343	31	47	9313	48	++	11885	57	13721	53	16338	52	18633	54	20802	52										
	161130	077	10	04	209	08	03	1527	04	14	3097	00	32	5714	18	38	7336	30	48	9311	47	++	11898	62	13717	54																
AUGHTON 03322	152330	056	06	03	206	07	01	1518	01	06	3078	01	23	5681	19	33	7302	31	46	9269	48	++	11867	58	13705	53	16316	53	18611	54	20776	53	24085	52								
	161130	056	13	04	209	10	03	1528	03	06	3082	02	18	5677	19	31	7292	32	42	9258	48	++	11848	58	13689	53	16309	52	18609	53	20785	51										
HEMSBY 03496	152330	012	08	05	193	08	04	1509	01	07	3055	04	24	5625	20	37	7240	32	46	9201	48	++	11807	53	13664	53	16285	51														
	161130	012	13	09	198	08	05	1520	01	05	3052	06	18	5607	23	33	7202	36	44	9131	52	++	11737	53	13598	51	16225	54	18525	52												
CRAWLEY 03774	160125	144	08	04	181	07	03	1496	02	04	3048	02	33	5648	18	39	7269	32	++	9229	49	++	11816	58	13647	55	16254	54														
	161130	144	13	05	180	12	05	1506	00	07	3053	03	23	5639	20	35	7253	33	46	9208	49	++	11801	55	14645	53	16245	54	18510	56	20655	55										
CAMBORNE 03808	152330	088	11	08	163	10	08	1501	05	02	3074	00	20	5690	18	37	7315	31	48	9290	47	++	11873	59	13704	54	16310	54	18590	56												
	161130	088	12	06	165	11	07	1496	06	14	3068	00	30	5678	18	38	7308	30	48	9286	47	++	11881	57	13731	52	16345	53	18622	55												
VALENTIA 03953	152330	014	13	09	164	12	09	1507	04	01	3081	01	13	5700	16	31	7340	29	42	9330	45	++	11920	58	++++	++	16380	52														
	161200	014	17	09	166	12	06	1499	04	01	3067	00	19	5680	16	38	7310	29	++	9300	46	++	11890	60	++++	++	16340	53														
Ocean Weather Station 'I' 59°00'N 19°00'W	160001		11	09	169	10	09	1499	02	05	3039	06	15	5610	21	30	7220	33	41	9180	49	++	11760	57	13610	49	16310	47	18570	48												
	161200		11	09	208	09	08	1537	02	05	3094	04	06	5670	20	25	7280	32	35	9250	48	++	11810	57																		
Ocean Weather Station 'J' 52°30'N 20°00'W	142300		12	08	118	11	07	1450	06	16	3022	02	07	5610	18	20	7230	31	34	9190	47	51	11770	55	13640	51	16280	51	++++	++	20760	55										
	161100		12	08	105	11	09	1441	07	00	3021	00	09	5610	19	24	7230	30	36	9190	58	++	11780	52	13650	50	16290	51	18600	52	20790	50	24140	++								

STATION	ww N _h C _L hC _M C _H	PRESSURE																											TROPOPAUSE							
		MSL	Surf.		0°C level																									mb	m	°C				
LERWICK 03005	02 855++	028	018	918 737	012	++	02	915	00	02-	897	08	05-	837	06-	12-	727	++	20-	708	02-	15-	674	++	16-	519	16-	29-	358	39-	50-	223	223	11170	63-	
	02 855++	029	019	725	010	++	03	965	03	00	916	00	02-	876	07	16-	833	++	08-	808	06	05-	745	++	02-	694	++	13-	650	++	13-	600	10-	222	11230	62-
STORNOWAY 03026	02 00900	026	025	728	982	12	03	973	++	01-	883	06	02	875	++	04-	853	07	03-	836	06	12-	775	++	17-	744	++	12-	728	00	17-	616	++	211	11580	60-
	01 00900	028	026	740	016	++	03	964	05	01	941	09	10-	901	09	15-	828	06	16-	755	01	18-	694	++	22-	606	07-	23-	491	19-	34-	364	202	11810	64-	
SHANWELL 03170	02 755++	027	027	910 747	901	01-	03-	891	05	03	875	++	08-	840	++	13-	713	01-	19-	649	05-	26-	387	33-	46-	254	56-	219	62-	198	57-	219	11280	62-		
	02 854++	028	027	745	009	07	02	920	00	01-	891	04	02-	839	04	14-	820	++	13-	796	++	18-	772	01	16-	757	++	11-	738	++	17-	720	++	225	11160	62-
ALDERGROVE 03917	04 00900	025	016	730	002	09	04	905	04	02	880	++	07-	875	06	07-	814	04	13-	778	02	16-	722	++	14-	636	04-	21-	474	19-	36-	388	224	11150	61-	
	04 785++	026	016	893 694	993	07	02	909	00	02-	872	01-	02-	861	05-	14-	882	03	17-	794	05	23-	707	++	34-	610	05-	30-	490	20-	40-	393	196	12000	62-	
AUGHTON 03322	02 30930	025	018	896 718	011	08	04	008	++	01	912	01	01-	863	02-	04-	846	02	07-	791	02	16-	675	02-	25-	587	++	31-	528	++	31-	345	260	10200	55-	
	02 585++	025	018	882 767	976	07	02	878	++	01-	870	01-	04-	856	03	04-	848	++	06-	811	03	10-	742	02-	17-	675	03-	19-	635	07-	21-	227	11050	58-		
HEMSBY 03496	01 25500	024	022	895 808	016	09	05	891	00	02-	877	01	03-	811	00	15-	772	++	14-	749	01-	20-	509	19-	36-	367	37-	50-	293	50-	228	57-	228	10950	57-	
	01 21500	024	023	858	000	08	05	975	++	01	942	06	01-	904	++	01-	837	02-	08-	818	02-	09-	730	++	17-	709	06-	18-	612	12-	24-	599	265	09930	55-	
CRAWLEY 03774	02 765++	022	005	880 772	923	++	01	843	03-	05-	825	02	09-	815	++	18-	763	01-	24-	723	01-	29-	651	05-	38-	605	07-	40-	450	25-	47-	248	10440	57-		
	02 655++	022	005	838 803	975	08	02	875	00	03-	845	++	08-	794	++	16-	715	02-	20-	630	++	30-	565	13-	30-	376	++	49-	291	51-	238	57-	238	10700	57-	
CAMBORNE 03808	02 11502	020	009	694	942	06	04	924	08	04	916	++	03	797	03	06-	764	05	09-	730	++	18-	585	08-	27-	479	21-	39-	378	34-	50-	266	224	11160	61-	
	02 686++	020	009	697	940	++	03	883	01	00	860	06	12-	799	05	19-	772	++	15-	738	02	24-	659	02-	34-	570	++	32-	386	32-	50-	248	209	11580	59-	
VALENTIA 03953	02 15600	019	018	665	952	10	07	900	06	04	839	04	00	811	06	01-	726	01	10-	664	00	16-	527	13-	29-	388	31-	44-	344	37-	47-	285	212	16500	61-	
	05 52500	019	018	700	872	02	01-	791	03	11-	740	03	15-	522	13-	35-	428	26-	49-	402	29-	271	52-	244	56-	191	55-	136	52-		200	11890	60-			
Ocean Weather Station 'I' 59°00'N 19°00'W	02 85400	020	020	811	927	05	04	898	04	03	853	++	06-	827	01	04-	796	01-	05-	760	04-	08-	717	05-	18-	658	++	16-	652	10-	15-	634	245	10500	59-	
	01 15631	025	025	750	979	++	07	970	07	05	940	07	05	908	04	02	884	04	03-	855	++	04-	847	02	06-	824	04	08-	808	03	14-	798	++	229	11000	62-
Ocean Weather Station 'J' 52°30'N 20°00'W	03 57470	014	014	735	895	02	02	880	06	07-	827	06	23-	775	02	03-	587	12-	13-	610	17-	18-	422	28-	31-	322	43-	47-	226	62-	184	226	11000	62-		
	01 75500	012	012	700	876	02	01	858	08	00	760	03	07-	586	12-	15-	564	12-	17-	308	46-	235	62-	210	53-	170	50-	066	52-	036	48-	235	10800	62-		

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	20400m 050 02 26100m 100 12 22800m 080 18	
STORNOWAY 03026	062mb 070 03 22200m 080 09 046mb 070 05 19200m 040 09	
SHANWELL 03170	P27700m 130 07 19700m 040 10	
ALDERGROVE 03917	633mb 040 13 22200m 100 10	
AUGHTON 03322	P25200m 100 15 11040/1 039mb 120 05	
HEMSBY 03496	17560m 350 06	
CRAWLEY 03774	16630/2 17110/5 28800m 110 12 33000m 130 03 33900m 140 03	
CAMBORNE 03808	21600m 090 06 01400/5 01740/2 060mb 050 03 20100m 290 03	
VALENTIA 03953	900mb 110 20 726mb 110 17 664mb 130 19 255mb 120 20 176mb 180 04 066mb 220 02 872mb 110 21 740mb 120 19 522mb 080 20 244mb 100 13 136mb 170 03	
Ocean Weather Station 'I' 59°00'N 19°00'W	913mb 170 24 11100m 190 37 170mb 200 20 07500m 190 24 09600m 190 23 21000m 010 06 07560/0	170 66 07620m
Ocean Weather Station 'J' 52°30'N 20°00'W	895mb 130 26 775mb 160 27 587mb 170 30 226mb 190 52 00300m 110 23 00600m 120 26 876mb 140 41 858mb 140 38 760mb 120 30 586mb 130 24 564mb 140 29 00300m 100 27 00600m 110 29	
LARKHILL 03743	01180/5 20400m 080 05 03400/5	

NOTES ON THE AEROLOGICAL SITUATION

The cold upper low near the north of Hudson Bay, which was noted yesterday and has been traceable as a coherent feature in that sector for at least a fortnight, is associated to-day with a surface depression developing near the Great Lakes and moving northeast. This north eastward movement, which goes with a marked change in the broad-scale pattern downstream over the North Atlantic, is in contrast to the eastward and southeastward developments of earlier lows, the last of which is going to get cut off on the way to the Azores.

AVERAGE AND EXTREME VALUES 1951-55 MAY

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	22145	-50.1	-46	-55	...	(10)
60	19500	-50.3	-43	-60	102	2
100	16180	-51.4	-44	-62	283	3
150	13540	-51.0	-42	-62	288	7
200	11680	-53.8	-39	-69	288	10
300	9070	-48.8	-37	-56	281	11
400	7125	-35.0	-27	-49	282	10
500	5530	-23.2	-15	-38	283	8
700	2985	-7.0	1	-20	289	4
850	1450	0.9	11	-10	310	2

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9
60	19480	-52.8	-46	-62	69	1
100	16195	-53.8	-44	-61	284	5
150	13590	-53.3	-46	-65	284	10
200	11750	-55.3	-42	-67	282	15
300	9140	-47.7	-38	-56	274	15
400	7180	-33.4	-23	-48	270	13
500	5580	-21.4	-11	-34	267	11
700	3015	-5.3	6	-16	258	7
850	1470	3.0	15	-6	254	5

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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

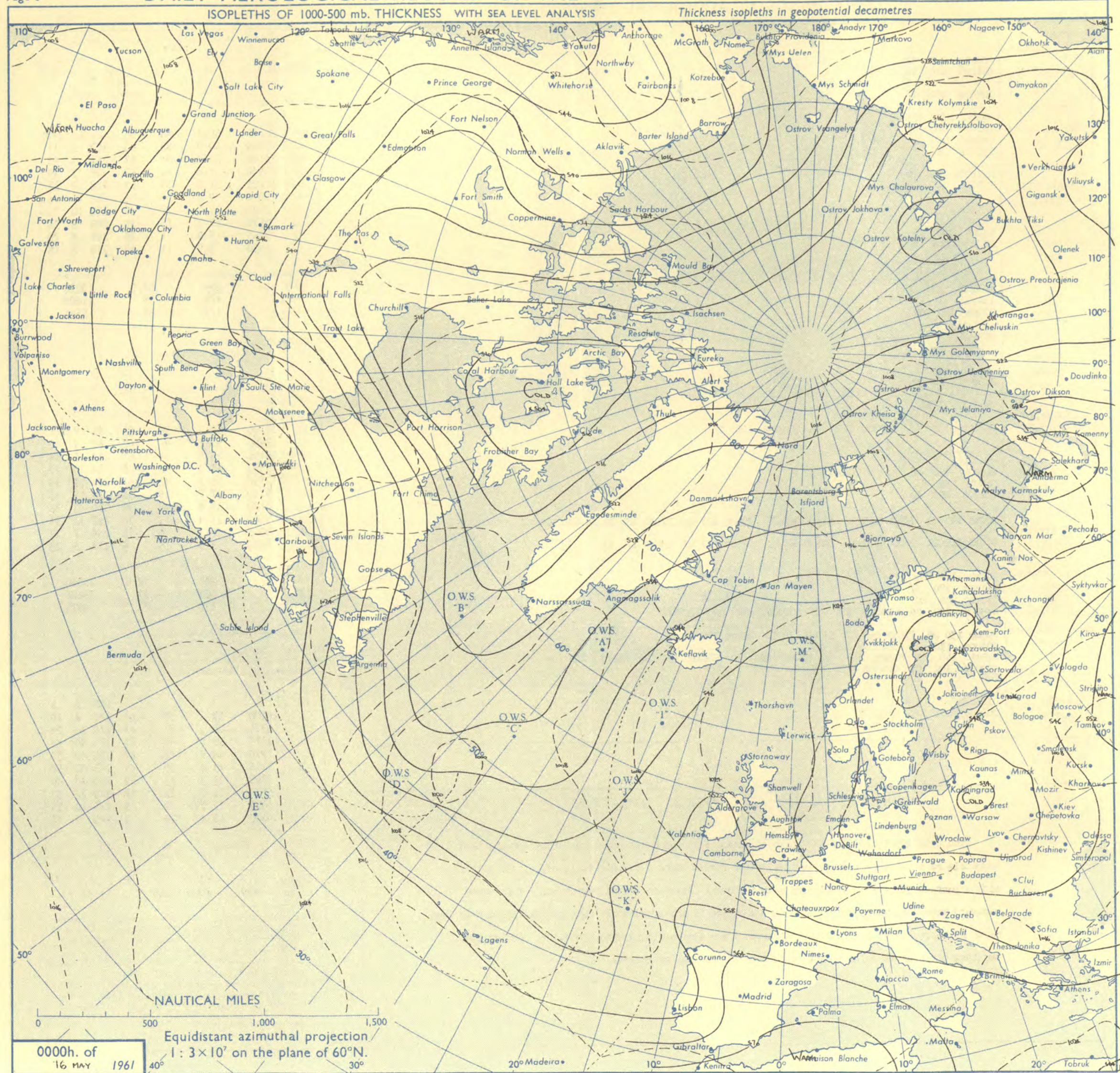
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	...	...	...	...	180	2
60	19500	-59.3	-57	-66	270	6
100	16315	-60.2	-51	-67	270	24
150	13775	-59.1	-49	-71	275	40
200	11970	-58.9	-48	-67	275	48
300	9355	-43.8	-39	-49	275	42
400	7365	-28.2	-23	-38	275	34
500	5720	-16.0	-12	-28	275	27
700	3095	2.2	9	-9	275	16
850	1500	12.2	24	2	275	9

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	117	-65.1	...	80	...	-71
Lower	199	-60.9	365	...	-41	...

* 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.

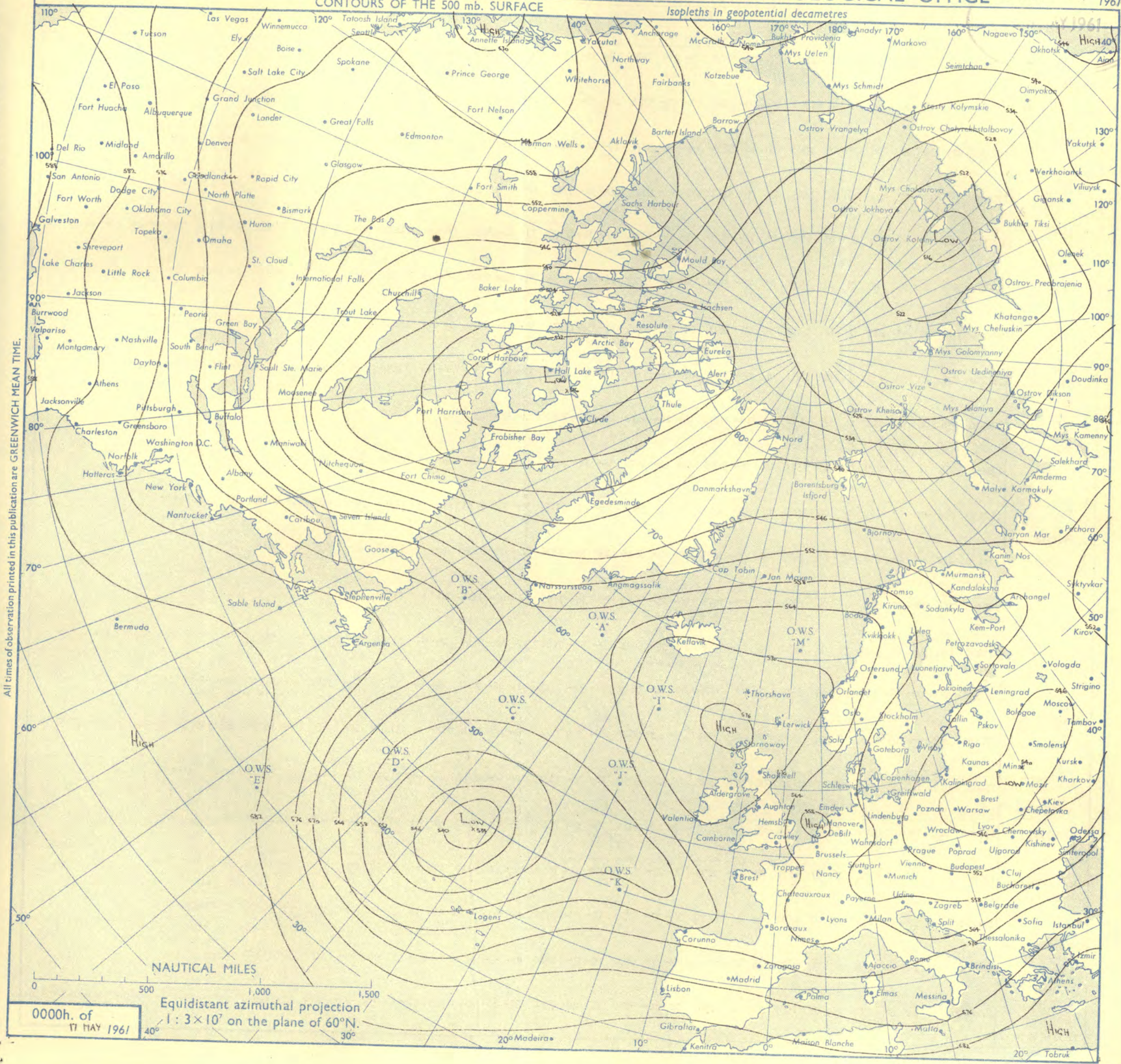
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

17 May

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HEIGHTS AND TEMPERATURES OF STANDARD ISOBARS CONTINUED																																		
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	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	gpm °C °C						
LERWICK 03005	162330	082	07	04	241	06	02	1569	07	14	3141	03	10	5730	18	33	7354	31	46	9324	48	++	11900	61	13728	54	16341	53	18647	51	20837	51		
	171130	082	08	04	253	05	02	1576	06	23	3140	03	11	5724	20	29	7339	33	41	9301	49	++	11869	60	13699	54	16305	53	18609	52	20800	51	24118	51
STORNOWAY 03026	162330	013	09	06	238	08	05	1583	09	10	3159	01	11	5771	17	31	7404	30	44	9393	45	++	12006	54	13874	49	16533	48	18878	49				
	171130	013	10	05	253	06	02	1585	07	06	3151	02	15	5745	19	31	7365	31	40	9330	48	++	11902	60	13726	55	16331	53	18631	53				
SHANWELL 03170	162330	005	09	05	235	07	03	1553	05	12	3120	03	12	5708	19	31	7328	31	41	9298	48	++	11879	58	13723	54	16341	52	18654	51	20839	52	24153	51
	171130	005	10	05	246	06	02	1557	03	03	3119	02	18	5712	19	32	7333	31	42	9309	46	++	11892	61	13719	54	16340	51	18651	53	20833	51	24170	50
ALDERGROVE 03917	162330	077	07	03	217	09	04	1550	03	09	3111	00	18	5715	19	33	7335	31	42	9310	47	++	11895	61	13725	54	16334	52	18634	55	20786	54	24081	52
	171130	077	12	05	239	07	02	1559	04	03	3122	02	16	5706	19	29	7325	32	41	9285	48	++	11854	62	13669	56	16249	56	18525	56				
AUGHTON 03322	162330	056	08	05	212	08	05	1539	02	10	3088	03	16	5670	20	32	7282	32	41	9242	49	++	11822	57										
	171255	056	14	04	228	09	03	1551	02	06	3098	04	14	5678	19	31	7295	32	42	9257	49	++	11841	56	13684	53	16293	53	18587	54	20751	54		
HEMSBY 03496	162330	012	09	07	199	09	06	1529	01	05	3057	08	18	5580	25	27	7165	35	39	9124	46	++	11787	50	13663	51	16298	51	18611	53				
	171130	012	13	08	213	08	04	1539	00	08	3065	09	21	5610	22	36	7206	35	48	9152	49	++	11804	49	13693	49	16333	51						
CRAWLEY 03774	162330	144	08	07	190	08	06	1524	03	03	3071	05	21	5650	20	30	7265	33	42	9215	50	++	11821	53										
	171130	144	14	06	200	13	04	1530	00	03	3058	10	17	5591	23	32	7180	37	46	9120	48	++	11784	49	13661	51	16291	53	18585	54	20753	52		
CAMBORNE 03808	162330	088	09	07	167	11	07	1509	04	01	3076	00	20	5679	18	34	7305	31	46	9280	46	++	11889	54	13749	51	16382	51	18682	54	20819	53		
	171130	088	15	08	191	12	07	1530	02	04	3072	05	12	5647	20	35	7250	34	46	9196	49	++	11793	55	13640	52	16239	55	18514	57	20641	57	23895	55
VALENTIA 03953	170001	014	11	05	179	11	05	1512	04	09	3088	01	22	5700	18	32	7330	30	43	9310	46	++	11920	56	++++	++	16400	52						
	171200	014	18	07	207	16	06	1554	05	07	3118	02	17	5710	20	33	7330	32	44	9290	49	++	11840	64	++++	++	16200	58						
Ocean Weather Station 'I' 59°00'N 19°00'W	170001		11	09	234	09	07	1571	03	01	3131	01	23	5730	19	41	7350	31	41	9330	47	++	11910	59	13740	55	16350	52	17650	52				
	171200		10	08	259	07	07	1591	05	16	3150	02	21	5750	19	39	7370	32	50	9330	48	++	11910	57	13750	53	16370	52	18670	53				
Ocean Weather Station 'J' 52°30'N 20°00'W	170001		12	10	134	11	04	1470	04	01	3034	02	08	5620	19	23	7240	31	37	9210	48	++	11790	55	13630	54	16220	55						
	171100		12	08	171	10	07	1509	06	03	3087	00	12	5710	16	24	7350	27	36	9350	43	52	11970	55	13830	51	16470	50	++++	++	20960	52	24270	51

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE			
		MSL	Surf.	0°C level		mb	m	°C	
LERWICK 03005	02 855++	029 019 731	004 ++ 02 930 ++ 01- 925 00 04- 918 07 00 894 08 09- 844 ++ 14- 799 ++ 07- 778 04 08- 702 03- 11- 513 17- 32- 366 36- 49- 307 47- 213 62- 196 61- 181 56- 142 53- 100 53- 050 51-			213	11510	62-	
	02 855++	031 021 743	012 06 02 935 01 00 913 07 10- 886 08 17- 835 ++ 27- 810 ++ 08- 793 ++ 12- 760 ++ 06- 694 ++ 11- 683 ++ 17- 652 ++ 13- 583 11- 27- 468 ++ 31- 346 40- 50- 284 51- 232 61- 218 62- 177 55- 100 53- 055 50- 030 51-			218	11310	62-	
STORNOWAY 03026	02 00900	029 028 716	025 10 07 942 07 01 923 11 02- 878 ++ 12- 823 08 11- 773 ++ 15- 714 00 09- 607 06- 19- 558 10- 23- 347 37- 50- 260 52- 215 58- 199 54- 158 49- 064 49-			215	11540	58-	
	02 25600	031 029 735	020 08 04 953 ++ 01 941 02 03- 926 08 03- 895 09 04- 677 04- 17- 655 04- 17- 520 17- 30- 345 40- 49- 256 56- 215 62- 178 56- 059 51- 055 53-			215	11450	62-	
SHANWELL 03170	02 757++	029 028 904 730	897 00 01- 878 ++ 01- 872 05 11- 853 ++ 14- 807 ++ 04- 798 04 09- 767 ++ 07- 730 00 10- 678 05- 13- 618 08 19- 572 ++ 27- 548 ++ 27- 343 40- 49- 272 53- 232 60- 213 60- 183 54- 100 52- 030 51-			232	10950	60-	
	02 855++	030 030 910 729	005 06 01 934 01 02- 876 02- 04- 865 03 01- 772 02 13- 593 10- 26- 452 25- 38- 430 27- 39- 345 39- 50- 259 55- 216 61- 198 61- 183 57- 100 51- 074 54- 058 51- 030 50- Pressure doubtful above 100mb.			216	11390	61-	
ALDERGROVE 03917	04 00900	027 017 702	988 10 05 959 ++ 03 883 03 01- 878 ++ 00 846 ++ 12- 836 03 13- 791 02 17- 760 ++ 16- 750 ++ 13- 702 00 18- 631 06- 20- 570 10- 27- 456 25- 37- 357 37- 48- 233 59- 208 61- 201 61- 184 55- 172 56- 109 52- 079 53- 069 55- 030 52-			208	11610	61-	
	02 756++	029 019 735	998 07 02 896 00 01- 875 05 01 866 ++ 05- 845 ++ 03- 812 04 05- 782 ++ 11- 582 12- 26- 465 23- 33- 357 39- 48- 265 55- 211 63- 168 56- 086 55- 060 57-			211	11500	63-	
AUGHTON 03322	02 00900	026 019 808	007 08 04 980 07 04 954 08 03 889 02 01- 874 ++ 06- 861 03 08- 800 00 12- 763 01- 17- 722 ++ 12- 705 03- 15- 690 ++ 17- 668 ++ 14- 640 ++ 14- 600 ++ 21- 535 16- 25- 500 20- 32- 349 40- 48- 279 53- 233 59- 194 57-			233	10860	59-	
	03 25500	027 021 794	015 11 03 884 01 01- 864 02 04- 803 ++ 12- 794 00 11- 754 ++ 11- 728 ++ 13- 598 10- 23- 349 40- 50- 255 57- 227 60- 213 56- 096 53- 053 54- 038 51-			233	10890	60-	
HEMSBY 03496	02 855++	024 023 836	975 08 02 946 ++ 00 892 05 00 858 ++ 04- 825 01- 05- 79 07- 12- 698 08- 18- 610 17- 22- 565 19- 22- 452 31- 33- 351 40- 46- 288 47- 256 50- 083 51- 073 53- 053 52-			256	10170	50-	
	02 555++	026 024 847	018 11 06 987 08 04 971 07 02- 932 ++ 02- 907 04 01- 890 03 04- 817 ++ 10- 757 ++ 12- 743 07- 16- 726 07- 17- 711 08- 19- 648 12- 22- 622 13- 21- 567 16- 27- 500 22- 36- 384 ++ 49- 338 44- 288 50- 164 48- 074 52-			288	09390	50-	
CRAWLEY 03774	01 15500	023 006 811 788	990 ++ 06 979 ++ 07 962 09 03 958 ++ 01 930 ++ 00 900 ++ 02- 848 ++ 03- 803 01- 09- 791 00 12- 785 ++ 14- 688 06- 22- 670 05- 22- 601 ++ 25- 440 26- 36- 357 ++ 48- 295 51- 236 56- 182 51-			236	10770	56-	
	02 58500	024 007 857	986 11 04 846 01- 04- 815 ++ 06- 785 ++ 11- 765 ++ 09- 699 10- 17- 660 14- 19- 620 13- 19- 512 22- 31- 467 27- 36- 394 38- 47- 307 48- 101 53- 040 53-			307	08960	48-	
CAMBORNE 03808	02 00900	020 010 698	000 11 07 898 07 02 855 04 01 843 05 01 818 05 09- 805 05 10- 732 01 17- 698 00 20- 614 08- 25- 589 09- 26- 373 35- 49- 252 55- 223 57- 183 52- 105 51- 078 54- 043 53-			223	11210	57-	
	02 11600	023 012 822	005 12 07 989 ++ 07 963 11 04 836 ++ 05- 800 02- 09- 768 ++ 16- 739 03- 16- 702 ++ 12- 676 ++ 12- 648 ++ 20- 555 14- 30- 368 39- 50- 261 55- 233 57- 153 52- 109 55- 054 58- 030 55-			233	10800	57-	
VALENTIA 03953	02 00900	022 020 684	004 11 05 890 03 02 882 03 01 826 05 10- 773 05 17- 684 00 22- 649 03- 22- 471 22- 36- 437 25- 38- 296 47- 243 56- 196 56- 170 52- 100 52- 070 54- 050 52-			243	10700	56-	
	02 11500	024 023 730	023 18 07 875 04 02- 850 05 07- 760 02 16- 661 05 19- 607 07- 22- 478 23- 36- 438 26- 37- 360 39- 49- 270 55- 230 62- 208 64- 200 64- 175 59- 146 57- 054 60- 048 62- 030 61-			208	11600	64-	
Ocean Weather Station 'I' 59°00'N 19°00'W	03 863++	029 029 816 715	973 10 08 928 08 02 900 ++ 02 818 ++ 04- 810 01- 07- 788 02 11- 776 02 17- 741 02 19- 685 03- 25- 664 03- 26- 460 23- 47- 419 ++ 46- 386 ++ 41- 380 34- 41- 337 40- 47- 239 59- 216 62- 175 55- 103 52- 086 54- 064 52-			216	11400	62-	
	02 855++	032 032 757	032 10 08 998 ++ 07 982 06 04 970 08 01 936 ++ 00 880 04 02- 845 05 17- 797 ++ 24- 753 00 19- 612 07- 28- 348 40- 232 61- 220 62- 202 57- 105 51- 067 53-			220	11300	62-	
Ocean Weather Station 'J' 52°30'N 20°00'W	50 864++	016 016 750	904 05 00 787 02 02- 535 15- 19- 452 24- 30- 344 39- 47- 238 60- 187 53- 086 56-			240	10700	60-	
	02 854++	020 020 700	020 12 08 917 04 01 905 07 02 789 05 11- 600 06- 13- 423 24- 32- 272 49- 234 56- 214 57- 184 52- 094 50- 066 53-			234	11000	56-	

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	162330	T	020 14	+++ ++	030 15	040 17	030 11	030 15	030 15	020 21	020 17	010 15	020 16	020 18	020 13	020 10	030 09				
	171130	P	020 16	+++ ++	030 15	030 14	020 09	020 09	020 13	010 18	360 12	010 16	360 14	010 15	010 14	040 09	040 10	030 11	100 08	090 10	
	171130	T	020 16	030 11	020 13	010 12	350 07	350 05	360 12	010 16	360 20	360 29	340 22	330 21	010 14	010 12	050 11	070 05	070 07		
	171730	P	360 12	+++ ++	360 12	340 13	320 12	320 12	340 12	340 17	340 19	350 27	360 36	360 26	350 15	010 15	030 13	050 10			
STORNOWAY 03026	162330	T	060 09	+++ ++	060 10	060 11	060 10	060 09	040 13	040 13	030 13	010 10	020 12	030 14	020 13	040 09	020 12				
	170535	P	070 08	+++ ++	050 08	040 07	030 09	030 09	020 13	010 16	030 18	030 18	030 18	030 16	010 12	040 12	040 12				
	171130	T	050 13	050 18	050 10	030 12	020 12	010 11	010 13	010 15	010 17	020 18	020 14	010 11	020 12	020 15	050 13				
	171730	P	040 20	+++ ++	020 10	350 10	340 10	340 12	360 19	350 17	020 19	020 16	030 18	360 13	360 15						
SHANWELL 03170	162330	T	050 13	+++ ++	020 18	040 21	030 28	040 31	040 31	030 33	030 37	030 38	030 40	030 31	020 18	040 11	010 07	160 09	090 08		
	170530	P	050 14	+++ ++	020 12	030 15	040 23	030 29	040 27	040 29	040 32	040 37	030 37	040 30	020 17	030 13	020 11	060 06			
	171130	T	050 12	030 11	040 14	050 15	050 23	050 25	050 25	040 24	040 26	050 28	040 28	040 28	030 18	010 09	060 09	040 11	090 09		
	171730	P	090 10	+++ ++	030 11	020 13	040 19	040 22	040 21	030 22	020 22	010 21	010 23	020 23	360 14	020 12					
ALDERGROVE 03917	162330	T	070 07	+++ ++	110 11	100 12	080 19	070 25	050 20	050 23	050 20	030 19	020 21	030 21	030 14	360 10	360 08	060 06	060 03		
	170530	P	060 08	+++ ++	040 10	040 15	040 19	060 24	050 28	040 28	040 24	040 31	040 32	030 22	010 15	020 16	030 11	040 09			
	171130	T	070 08	+++ ++	060 15	050 22	050 33	050 32	050 25	050 23	040 27	040 28	040 30	030 26	030 16	030 16	010 08	080 05			
	171730	P	060 07	+++ ++	060 10	050 14	040 21	040 24	040 22	040 25	040 21	030 22	040 22	030 22	010 13	020 14	030 12	040 15	040 10		
AUGHTON 03322	162330	T	060 07	+++ ++	040 11	060 13	040 17	040 25	020 27	020 34	020 39	020 42	020 46	020 34	010 14	360 09	340 12				
	160530	P	000 00	+++ ++	050 06	010 10	030 13	040 20	040 31	040 38	030 47	030 57	040 56	030 26	010 15	010 12	010 09	030 06			
	171130	P	030 06	+++ ++	070 09	110 07	060 09	060 17	050 32	050 35	050 47	050 51	050 48	040 29	030 17	030 10	040 09				
	171730	P	300 07	+++ ++	060 09	160 06	080 03	050 21	050 28	040 29	040 37	050 42	050 42	040 29	020 12	010 18	010 11				
HEMSBY 03496	162330	T	010 10	+++ ++	060 13	070 17	050 15	020 15	330 17	310 26	320 44	330 38	350 39	360 27	350 16	360 12	330 05				
	170618	P	030 13	+++ ++	050 13	050 15	050 16	050 18	050 22	050 38	040 39	040 56	040 34	020 23	360 15	360 13					
	171130	T	040 14	+++ ++	040 15	050 16	050 19	070 20	070 22	070 36	060 44	060 61	060 46	040 21	020 15	350 10					
	171730	P	020 16	+++ ++	040 15	030 16	030 17	030 13	030 17	040 38	050 51	050 66	040 59	030 29	010 13	030 10	030 07				
CRAWLEY 03774	162330	T	080 07	+++ ++	090 21	090 12	020 08	010 10	330 20	350 26	350 33	360 35	340 31	340 25							
	170530	P	060 06	+++ ++	070 16	070 12	050 10	030 13	020 30	010 39	010 47	360 49	350 39	350 40							
	171110	P	060 10	+++ ++	080 14	070 22	060 21	080 14	030 22	040 30	040 31	040 38	020 31	020 15	010 16	360 08	010 06	090 07	080 10	090 08	110 13
	171730	P	070 15	+++ ++	050 17	040 24	040 22	050 19	060 23	050 37	050 49	050 77	050 43	030 30	350 17	360 09	360 07	060 10	110 09		
CAMBORNE 03808	162330	T	070 08	+++ ++	110 29	130 20	090 15	090 15	070 16	070 14	060 20	070 19	020 11	010 08	330 09	320 10	020 07	070 06			
	170530	P	090 20	+++ ++	110 16	090 10	070 12	070 13	040 17	050 19	030 25	030 27	020 18	340 11	340 12	330 17					
	171130	T	120 18	+++ ++	090 14	060 12	060 14	040 15	040 20	030 28	020 31	020 46	020 44	010 26	350 19	340 11	330 09	030 07	100 08		
	171740	P	070 06	+++ ++	080 10	060 13	050 19	040 26	040 29	040 36	050 53	050 59	040 48	010 24	350 18	340 14	010 12				
VALENTIA 03953	170001	T	080 07	100 16	+++ ++	130 19	+++ ++	100 24	+++ ++	100 27	100 29	100 28	+++ ++	080 12	+++ ++	360 06	020 07	090 07			
	171200	T	120 12	110 12	+++ ++	100 20	+++ ++	080 21	+++ ++	060 24	060 14	050 21	+++ ++	040 18	+++ ++	010 09	+++ ++	+++ ++	060 14		
Ocean Weather Station 'I' 59°00'N 19°00'W	170001	T	110 13	120 18	140 15	140 18	160 18	140 13	160 19	200 30	180 21	190 15	170 09	170 09	170 06	000 00	000 00				
	170600	P	090 10	+++ ++	140 09	120 12	130 11	170 15	170 14	180 20	210 24	200 18	160 19	220 06	290 04	300 04					
	171200	T	130 17	110 20	120 17	130 13	140 09	150 10	190 16	180 19	180 21	200 15	190 13	250 13	310 06	350 07					
	171800	P	130 10	+++ ++	110 16	110 15	140 12	170 10	210 19	200 19	210 12	230 18	210 08	290 14	360 11	030 06	020 09				
Ocean Weather Station 'J' 52°30'N 20°00'W	170001	T	100 25	100 26	+++ ++	130 42	+++ ++	130 30	+++ ++	130 34	130 34										
	170600	P	090 20	+++ ++	120 28	130 29	130 24	140 28	140 30	140 32	140 25	140 25	140 24	160 24							
	171100	T	110 22	110 25	+++ ++	130 34	+++ ++	120 26	140 30	130 29	130 18	170 18									
	171800	P	090 20	+++ ++	130 29	140 31	140 31	140 34	140 34	140 28	150 19	160 12									
LARKHILL 03743	170620	P	040 11	+++ ++	080 12	070 12	030 10	040 20	020 28	020 36	010 38	010 34	360 27	350 20	360 16	360 14	290 04				
	171015	P	030 15	+++ ++	100 17	080 22	070 13	040 17	030 29	020 36	030 44	030 44	010 29	010 19	350 15	360 14					

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	057mb 060 11 21300m 060 13	
STORNOWAY 03026	060mb 070 11 15300m 010 17	
SHANWELL 03170	P25200m 090 10 17700m 020 12	
ALDERGROVE 03917	22000m 040 12 24600m 080 15	
AUGHTON 03322	P19800m 040 09 23400m 030 05 10810/1 19500m 040 06 02060/5	
HEMSBY 03496	057mb 020 13 18000m 060 09 080mb 030 10 19800m 010 09 10600/1 11060/1	050 62 09090m 070 63 09390m 050 70 09890m
CRAWLEY 03774	28800m 080 12 32400m 120 06 10580/1 24600m 040 09 09460/1	060 80 09250m
CAMBORNE 03808	264mb 050 11 047mb 070 07 18000m 020 12 19500m 030 08	050 62 09240m
VALENTIA 03953	890mb 130 22 826mb 110 18 773mb 100 17 649mb 110 25 243mb 090 24 170mb 080 06 876mb 100 19 760mb 090 19 360mb 050 20 270mb 050 24 175mb 360 17 048mb 040 08	
Ocean Weather Station 'I' 59°00'N 19°00'W	11400m 180 12 12600m 260 05 16800m 300 03 11320/4 072mb 050 04 18600m 030 10 01900/4	
Ocean Weather Station 'J' 52°30'N 20°00'W	904mb 130 31 787mb 130 37 535mb 130 39 452mb 130 32 344mb 130 40 00300m 110 24 00600m 120 25 917mb 120 40 905mb 120 38 789mb 120 26 428mb 130 17 272mb 180 16 00300m 110 24 00600m 110 26	
LARKHILL 03743	04490/2 17700m 360 13	

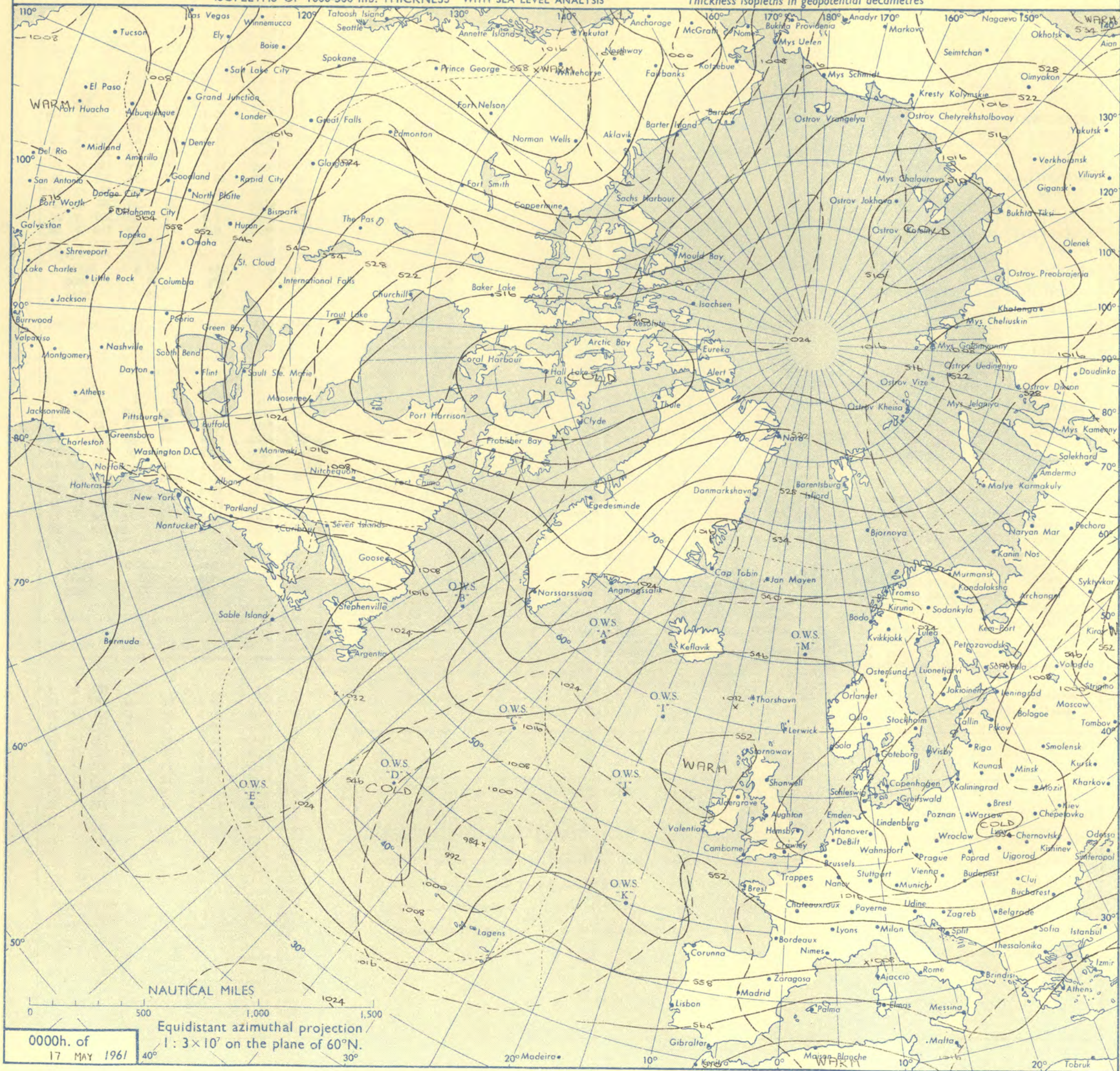
NOTES ON THE AEROLOGICAL SITUATION

The old low over Baffin Island remains almost stationary while the trough southwards towards the Great Lakes is moving steadily east. The downstream ridge lying northeast across Newfoundland continues to develop and has cut off the low to north of the Azores. The trough extending southeast into Biscay is moving eastnortheast and relaxing. The high between the British Isles and Iceland and the low over eastern Europe persists. The trough extending westwards over Germany and France is moving slowly southeast while the small low over the southern North Sea is moving southsouthwest towards north France.

AVERAGE AND EXTREME VALUES 1951-55							
MAY							
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	22145	-50.1	-46	-55	...	...	(10)
60	19500	-50.3	-43	-60	102	2	11
100	16180	-51.4	-44	-62	283	3	13
150	13540	-51.0	-42	-62	288	7	19
200	11680	-53.8	-39	-69	288	10	27
300	9070	-48.8	-37	-56	281	11	36
400	7125	-35.0	-27	-49	282	10	32
500	5530	-23.2	-15	-38	283	8	26
700	2985	-7.0	1	-20	289	4	20
850	1450	0.9	11	-10	310	2	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		254	-57.8		10230		
Max.		479	-39		12800		
Min.		171	-69		5545		
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	22100	-52.2	-50	-58	85	9	11
60	19480	-52.8	-46	-62	69	1	10
100	16195	-53.8	-44	-61	284	5	14
150	13590	-53.3	-46	-65	284	10	22
200	11750	-55.3	-42	-67	282	15	34
300	9140	-47.7	-38	-56	274	15	45
400	7180	-33.4	-23	-48	270	13	38
500	5580	-21.4	-11	-34	267	11	31
700	3015	-5.3	6	-16	258	7	23
850	1470	3.0	15	-6	254	5	20
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		244	-58.0		10560		
Max.		405	-39		13685		
Min.		158	-72		6825		
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	...	...	...	...	180	2	8
60	19500	-59.3	-57	-66	270	6	10
100	16315	-60.2	-51	-67	270	24	25
150	13775	-59.1	-49	-71	275	40	43
200	11970	-58.9	-48	-67	275	48	53
300	9355	-43.8	-39	-49	275	42	50
400	7365	-28.2	-23	-38	275	34	40
500	5720	-16.0	-12	-28	275	27	32
700	3095	2.2	9	-9	275	16	23
850	1500	12.2	24	2	275	9	16
Tropo- pause		Average Press.	Max. Temp.	Min. Press.	Max. Temp.	Min. Press.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		117	-65.1	...	80	...	-71
		199	-60.9	365	...	-41	...
* 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

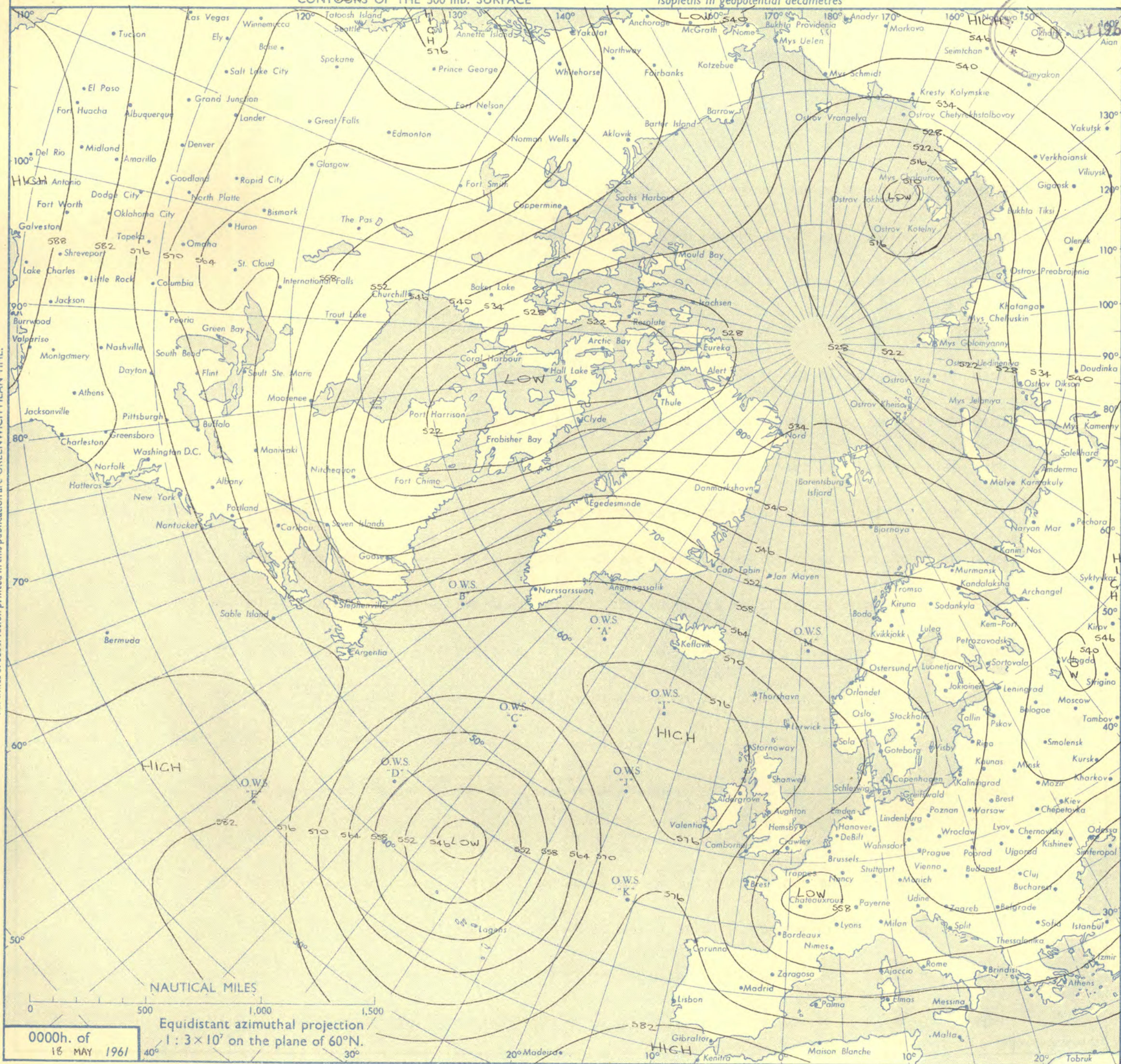
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



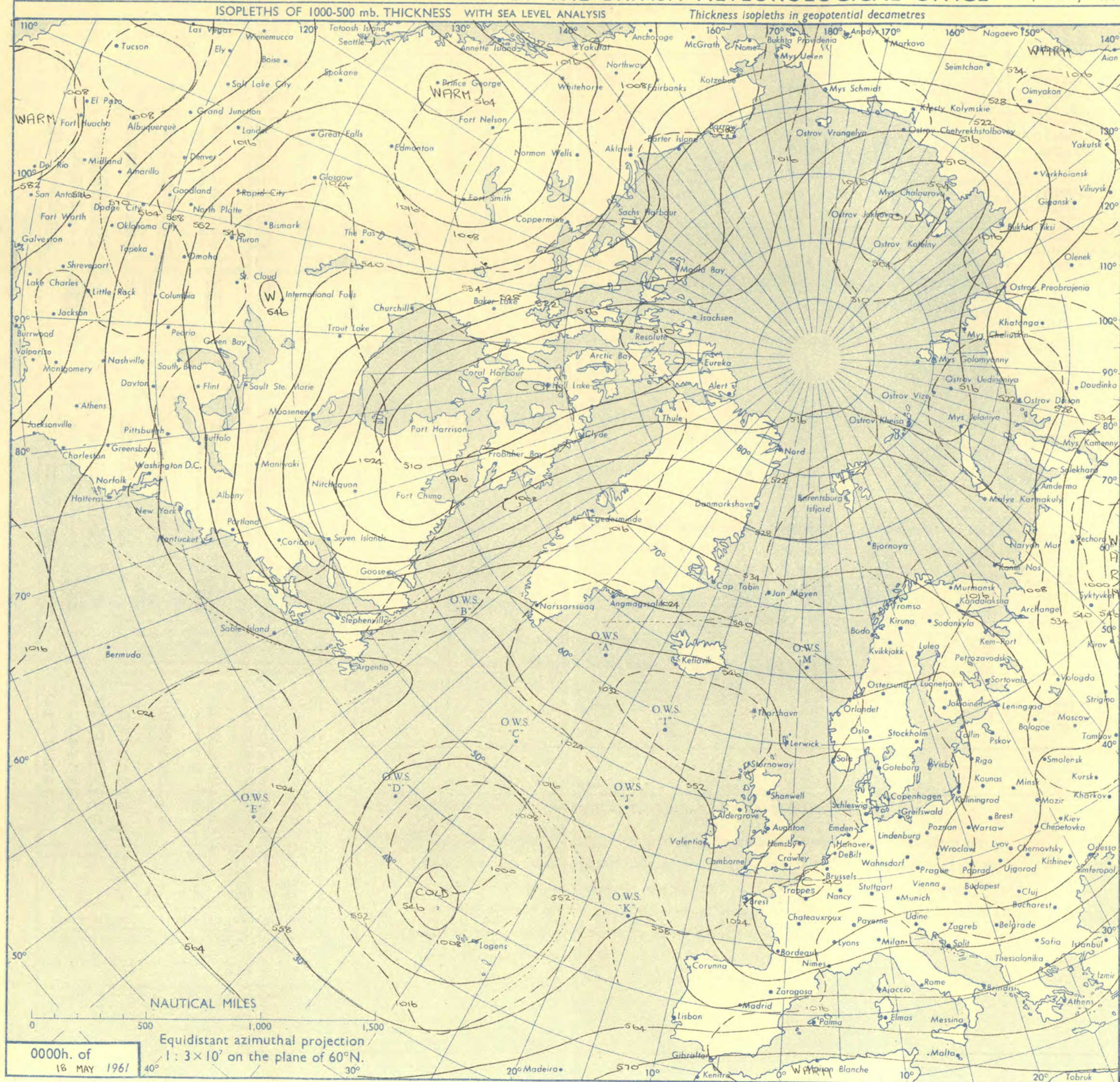
STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb						
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C								
LERWICK 03005	172330	082	09	08	249	07	06	1565	02	04	3124	03	13	5700	21	31	7306	34	41	9259	50	++	11800	59	13629	54	16226	54																
	181130	082	12	07	229	10	06	1554	05	07	3111	05	10	5674	20	30	7287	33	41	9242	48	++	11850	54	13708	51	16333	52	18639	53														
STORNOWAY 03026	172330	013	08	05	261	06	03	1592	06	16	3159	02	12	5756	19	36	7379	32	42	9346	48	++	11911	61	13731	55	16334	55																
	181130	013	11	07	266	07	04	1582	04	09	3146	02	21	5731	20	37	7343	33	48	9307	48	++	11888	56	13728	54	16332	54	18625	53	20799	50												
SHANWELL 03170	172330	005	09	05	254	07	04	1577	06	08	3142	02	14	5735	19	29	7356	31	41	9324	48	++	11892	59	13727	55	16339	53	18644	51	20822	52	24136	51										
	181130	005	14	03	257	09	00	1579	04	08	3146	03	11	5735	20	34	7351	32	45	9311	49	++	11873	59	13713	53	16323	52	18632	51	20822	51	24145	51										
ALDERGROVE 03917	172330	077	08	05	251	08	04	1579	06	08	3146	02	14	5734	19	36	7353	32	46	9313	49	++	11883	59	13713	55	16314	54	18606	53	20778	53	24078	50										
	181130	077	12	08	258	09	06	1585	07	07	3155	01	21	5755	18	33	7378	31	41	9346	48	++	11907	59	13742	54	16348	54	18648	53	20836	51												
AUGHTON 03322	172330	056	08	04	239	08	04	1564	01	03	3118	03	19	5700	20	29	7317	32	40	9283	48	++	11869	58	13711	53	16325	53	18625	52	20800	52												
	181130	056	10	03	250	07	01	1566	04	08	3130	02	16	5725	19	30	7345	32	41	9310	48	++	11880	58	13723	53	16334	54	18637	51	20826	50												
HEMSBY 03496	172330	012	09	08	220	08	06	1549	00	07	3075	07	19	5628	21	39	7228	35	50	9173	50	++	11779	51	13645	51	16271	52																
	181130	012	12	07	228	07	03	1550	00	08	3090	04	21	5665	21	28	7266	35	41	9207	51	++	11774	54	13626	53	16234	53	18524	53														
CRAWLEY 03774	172330	144	08	05	215	07	04	1542	01	05	3075	07	17	5618	23	35	7218	34	46	9171	49	++	11790	51	13660	51	16278	53	18580	54	20743	53												
	181135	144	14	06	226	11	04	1552	00	07	3086	06	21	5651	22	39	7251	35	45	9197	50	++	11784	54	13636	53	16247	54	18537	55	20695	55												
CAMBORNE 03808	172330	088	09	08	219	13	08	1560	02	03	3104	04	18	5697	18	36	7322	31	45	9293	47	++	11883	56	13725	54	16335	53																
	181130	088	15	09	234	13	05	1573	02	02	3124	03	18	5714	20	32	7329	33	43	9288	48	++	11883	56	13726	54	16331	53	18621	54	20784	53	24081	52										
VALENTIA 03953	180000	014	11	09	242	12	09	1589	04	03	1155	00	19	5780	15	27	7420	28	39	9420	43	++	12050	59	++++	52	16480	54																
	181200	014	15	06	247	13	05	1591	08	01	3169	00	19	5750	21	33	7370	30	40	9340	47	++	11930	62	++++	++	16310	56																
Ocean Weather Station 'I' 59°00'N 19°00'W	180000		10	06	271	08	07	1603	06	18	3173	01	24	5780	19	40	7400	32	++	9360	48	++	11950	57	13790	53	16400	52	18690	55														
	181200		11	06	276	08	04	1601	07	12	3181	01	18	5790	18	31	7410	31	47	9390	46	++	11990	56	13840	53	16460	52																
Ocean Weather Station 'J' 52°30'N 20°00'W	172300		12	10	195	11	09	1538	07	02	3120	01	21	5740	15	37	7390	28	++	9380	45	++	11970	59	13810	53	16430	52	++++	++	20900	52	24220	50										
	181100		11	10	217	09	08	1557	05	04	3131	00	22	5740	17	38	7370	28	48	9370	44	++	11970	64	13770	54	16380	53	++++	++	20830	56	24100	52										

STATION	ww N _h C _L hC _M C _H	PRESSURE																															TROPOPAUSE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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LERWICK 03005	02 755++	030	020	898 740	000	07	06	966	07	04	950	++	00	893	00	02	852	03	03	838	03	07	818	03	18	809	03	13	795	++	06	775	++	214	11390	66																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	02 58402	028	018	765	05	745	++	11	719	01	11	650	++	16	625	++	22	600	++	21	591	13	23	564	14	29	466	++	33	356	40	46	232	64	214	66	203	59	164	55	100	54	090	55	238	10720	56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
STORNOWAY 03026	02 00900	032	031	722	010	11	06	950	04	03	906	02	01	892	++	01	869	06	05	860	++	11	845	05	06	795	++	02	680	++	11	600	14	215	64	183	57	129	53	090	54	227	11090	59																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	03 885++	033	031	891 737	017	08	05	935	02	01	875	01	02	855	04	08	833	05	10	798	02	04	752	++	16	737	00	17	684	03	22	520	17	35	506	19	36	380	35	50	251	57	227	59	180	54	062	54	050	50	227	11090	59																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
SHANWELL 03170	02 854++	031	031	740	008	08	04	900	02	01	885	07	01	868	++	07	828	++	12	752	02	18	708	++	14	590	++	28	476	21	37	370	++	223	11210	62																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	02 35601	031	031	729	040	50	236	60	223	62	177	54	100	53	030	51	Pressure doubtful above 040mb												000	09	00	882	00	02	860	04	07	848	04	08	821	04	09	778	++	04	764	02	06	745	++	09	676	05	13	607	221	11260	63																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
ALDERGROVE 03917	03 856++	031	021	728	008	08	04	900	02	01	885	07	01	868	++	07	828	++	12	752	02	18	708	++	14	590	++	28	476	21	37	370	++	220	11290	62																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	02 756++	031	022	714	50	320	45	220	62	168	55	065	53	042	54	030	50	000	09	06	882	++	00	879	01	02	865	07	03	860	++	06	704	00	20	628	++	22	510	17	33	375	35	45	347	++	218	11360	63																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
AUGHTON 03322	02 00900	022	029	774	914	06	03	859	01	00	836	02	07	830	02	09	820	++	09	774	00	11	747	00	16	591	11	25	498	20	28	404	++	224	11140	59																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	02 855++	031	024	905 730	39	346	40	48	261	54	224	59	147	52	103	53	045	52	978	05	00	893	++	02	883	01	04	870	04	04	810	++	16	792	03	16	721	++	15	656	++	23	640	05	21	627	220	11290	63																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
HEMSBY 03496	02 00900	027	025	850	013	++	06	986	08	05	966	09	01	910	05	04	857	++	06	804	++	07	766	++	10	758	07	11	731	05	13	709	++	244	10500	56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	02 655++	028	026	846	18	669	08	22	614	13	29	554	16	34	397	35	50	306	4	244	56	226	56	216	51	090	53	021	09	04	960	04	03	945	06	01	910	++	05	803	03	10	783	01	11	776	++	14	664	05	22	519	++	27	413	242	10580	61																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
CRAWLEY 03774	02 00900	026	009	842	978	07	02	952	08	00	870	++	03	818	02	08	795	02	10	652	11	21	581	15	27	390	35	47	290	50	239		239	10630	55																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	03 31500	027	010	848	55	199	51	090	53	046	52	003	12	04	897	03	01	861	++	06	800	++	06	779	05	10	757	03	15	675	++	24	584	13	31	498	22	39	361	++	50	261	56	236	58	221	58	192	53	050	55	236	10710	58																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CAMBORNE 03808	02 00900	027	016	821	999	13	08	992	++	05	903	++	02	803	++	03	763	04	07	747	02	13	675	05	24	625	07	28	617	07	27	490		228	11040	59																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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VALENTIA 03953	02 25600	029	028	700	972	12	09	858	04	03	826	01	01	786	05	14	648	03	22	522	13	25	279	47	221	57	191	60	150	52	094	54		191	12300	60																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	05 15600	030	028	680	982	11	04	905	06	00	888	07	00	843	08	02	792	06	09	763	05	13	714	00	20	188	00	18	611	21	27	585	11	28	529	17	30	470	25	36	434	25	35	374	35	45	333	40	50	300	47	217	61	199	62	144	55	089	56	199	11900	62																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Ocean Weather Station 'I' 59°00'N 19°00'W	02 755++	033	033	689	079	55	Ascent suspect between 750mb and 450mb																				935	03	02	925	++	04	905	++	19	900	08	18	829	++	17	796	04	12	772	++	21	713	01	20	695	01	25	615	08	235	10900	59																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	02 856++	034	034	693	902	00	00	888	07	05	883	07	09	785	06	17	682	01	20	373	35	50	242	57	161	52	072	53																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

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	172330	T	310 13	+++ ++	350 19	350 18	330 15	330 17	330 17	320 18	320 28	320 27	320 28	330 24	350 19	020 17					
	180530	P	310 12	+++ ++	340 22	350 22	350 17	350 23	320 21	310 26	320 23	310 41	310 38	340 23							
	181130	T	320 14	+++ ++	340 14	340 17	340 22	330 21	330 28	330 26	340 27	020 42	010 37	350 25	350 21	030 17	040 15	080 12			
	181730	P	320 15	+++ ++	330 18	330 18	330 20	310 28	330 34	310 31	310 34	320 34	330 36	340 32	360 21	020 21	020 16	030 14			
STORNOWAY 03026	172330	T	030 17	030 15	040 09	360 08	360 14	010 16	360 21	350 21	340 17	340 16	340 12	340 17	360 18	010 14					
	180530	P	050 10	+++ ++	050 11	020 06	010 10	340 12	340 20	340 25	330 28	320 25	320 25	340 20							
	181130	T	070 06	010 09	010 09	340 11	300 12	310 15	320 22	310 25	320 34	320 39	310 39	350 26	010 16	030 17	040 18				
	181730	P	340 12	+++ ++	330 14	330 15	330 18	330 21	330 23	330 27	350 20	360 29	020 38	360 27	020 21	020 19					
SHANWELL 03170	172330	T	050 10	020 11	360 14	020 16	030 22	030 18	040 21	030 24	040 24	020 33	030 35	010 28	030 21	010 14	020 09	070 09	050 11	050 15	
	180530	P	020 15	+++ ++	360 11	010 13	350 12	350 13	350 14	350 15	010 27	010 27	010 24	010 25	010 20						
	181130	T	000 00	+++ ++	350 08	340 14	350 17	360 19	360 26	350 24	350 30	340 26	330 27	340 22	010 19	040 14	050 13	050 09	070 13	090 07	
	181730	P	120 08	+++ ++	280 02	320 17	350 17	350 17	330 24	340 30	340 32	010 33	020 39	360 25	020 21	010 19	030 16	060 15	070 10		
ALDERGROVE 03917	172330	T	040 04	+++ ++	050 12	030 16	040 26	040 27	030 21	020 24	030 22	030 24	010 20	360 20	020 18	020 13	020 15	060 05			
	180530	P	090 04	+++ ++	040 10	040 16	040 18	030 16	030 16	030 21	040 26	030 27	020 20	020 22	020 21						
	181130	T	320 02	+++ ++	020 08	020 14	020 13	020 16	020 17	020 23	020 20	360 17	360 19	360 21	010 18	040 18	060 12	070 11			
	181730	P	340 09	+++ ++	330 07	340 11	360 11	020 12	010 21	350 20	340 22	330 36	340 28	360 24	010 19	020 18	040 15	050 12	070 12		
AUGHTON 03322	172330	T	060 07	+++ ++	130 06	310 11	030 17	040 22	040 25	040 32	030 30	020 39	020 35	030 29	020 21	340 12	030 11	060 08			
	180530	P	040 02	+++ ++	010 07	010 12	030 15	040 23	040 27	040 29	040 37	040 47	040 41	020 30	020 20	010 16	030 14	040 15			
	181130	T	020 06	+++ ++	060 07	040 11	040 20	040 18	030 24	030 27	020 27	040 35	040 37	020 23	020 20	020 14	070 07	130 06			
	181730	P	060 05	+++ ++	030 07	020 08	020 12	010 14	360 17	010 23	010 29	360 27	350 26	010 26	010 18	010 13	030 11	060 13			
HEMSBY 03496	172330	T	030 14	+++ ++	070 16	070 15	060 16	050 22	040 34	040 47	040 56	040 60	040 55	020 26	020 21	360 11					
	180530	P	010 10	+++ ++	040 10	050 10	070 09	050 19	050 28	050 28	050 37	050 52	040 47	030 29	020 18	010 15	030 13	080 10			
	181130	T	360 10	360 15	320 08	310 06	030 13	040 19	050 23	040 25	040 30	040 36	040 33	040 30	030 14	060 05	100 07				
	181730	P	350 11	+++ ++	330 16	340 16	030 16	030 18	030 19	020 23	020 27	030 30	020 31	020 26	020 18	010 10	040 09	060 13	090 11		
CRAWLEY 03774	172330	T	050 08	+++ ++	060 20	050 23	040 18	030 17	030 27	040 49	040 59	030 67	040 55	030 29	020 19	360 13	020 08	050 08			
	180535	P	020 09	+++ ++	050 18	090 13	090 13	060 17	060 30	060 40	050 50	040 58	030 54	020 27	020 13	360 20	020 19				
	181110	P	040 10	+++ ++	050 13	060 13	020 09	050 14	040 21	050 26	050 37	050 51	040 51	020 20	360 17	020 12	010 07	090 09	090 12		
	181730	P	000 00	+++ ++	350 03	360 11	010 12	040 19	040 22	040 26	040 31	040 36	040 50	020 28	020 17	360 12	350 12	060 08	070 15	070 14	
CAMBORNE 03808	172330	T	000 00	+++ ++	070 10	070 18	050 20	050 22	040 26	030 32	040 39	040 46	030 41	020 30	360 22	340 13					
	180530	P	000 00	+++ ++	050 07	040 08	040 18	040 19	030 28	030 30	010 37	360 44	360 40	010 31	340 20	360 12	010 10				
	181130	T	330 10	+++ ++	020 06	050 10	030 19	030 22	030 26	030 28	030 29	030 31	020 36	360 31	360 22	010 12	020 06	050 07	080 14		
	181730	P	360 08	+++ ++	360 07	010 10	010 09	030 18	040 17	040 27	040 31	040 31	030 38	010 26	350 14	360 12	010 08				
VALENTIA 03953	180000	T	000 00	040 04	+++ ++	050 12	+++ ++	050 17	+++ ++	040 16	020 17	010 14	+++ ++	020 17	360 17	010 03					
	181200	T	030 06	070 07	+++ ++	060 13	+++ ++	060 20	+++ ++	050 14	050 12	020 12	+++ ++	010 18	+++ ++	020 16					
Ocean Weather Station 'I' 59°00'N 19°00'W	180000	T	160 10	140 12	140 08	130 12	140 07	200 06	230 20	230 18	240 13	260 14	270 09	310 11	010 12	020 08					
	180600	P	135 05	+++ ++	170 07	170 10	170 09	200 06	250 11	240 19	240 06	280 09	300 11	350 09	020 16						
	181200	T	000 00	220 07	230 06	230 08	200 09	200 08	250 15	240 12	340 06	050 05	030 12								
	181800	P	180 10	+++ ++	230 09	270 09	280 09	290 05	300 11	280 11	360 26	+++ ++	+++ ++	+++ ++	030 20	030 20					
Ocean Weather Station 'J' 52°30'N 20°00'W	172300	T	110 17	200 20	+++ ++	140 32	+++ ++	140 34	+++ ++	140 17	140 10	000 00									
	180600	P	135 20	+++ ++	130 21	140 24	140 26	140 30	140 30	140 20	140 13	190 18	250 06	290 04							
	181100	T	110 17	120 25	+++ ++	140 27	+++ ++	140 28	+++ ++	140 20	140 07	000 00									
	181800	P	135 20	+++ ++	130 25	130 27	140 22	140 24	140 22	140 26	140 26	140 16	070 08	030 20	130 08	130 12					
LARKHILL 03743	180630	P	020 10	+++ ++	050 18	030 20	040 24	040 24	050 32	040 37	040 42	030 46	030 45	020 30	360 19	360 22					
	181015	T	030 11	+++ ++	050 13	050 11	030 20	040 25	050 30	040 34	050 34	040 42	040 43	030 29	020 18	040 16	020 10				

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

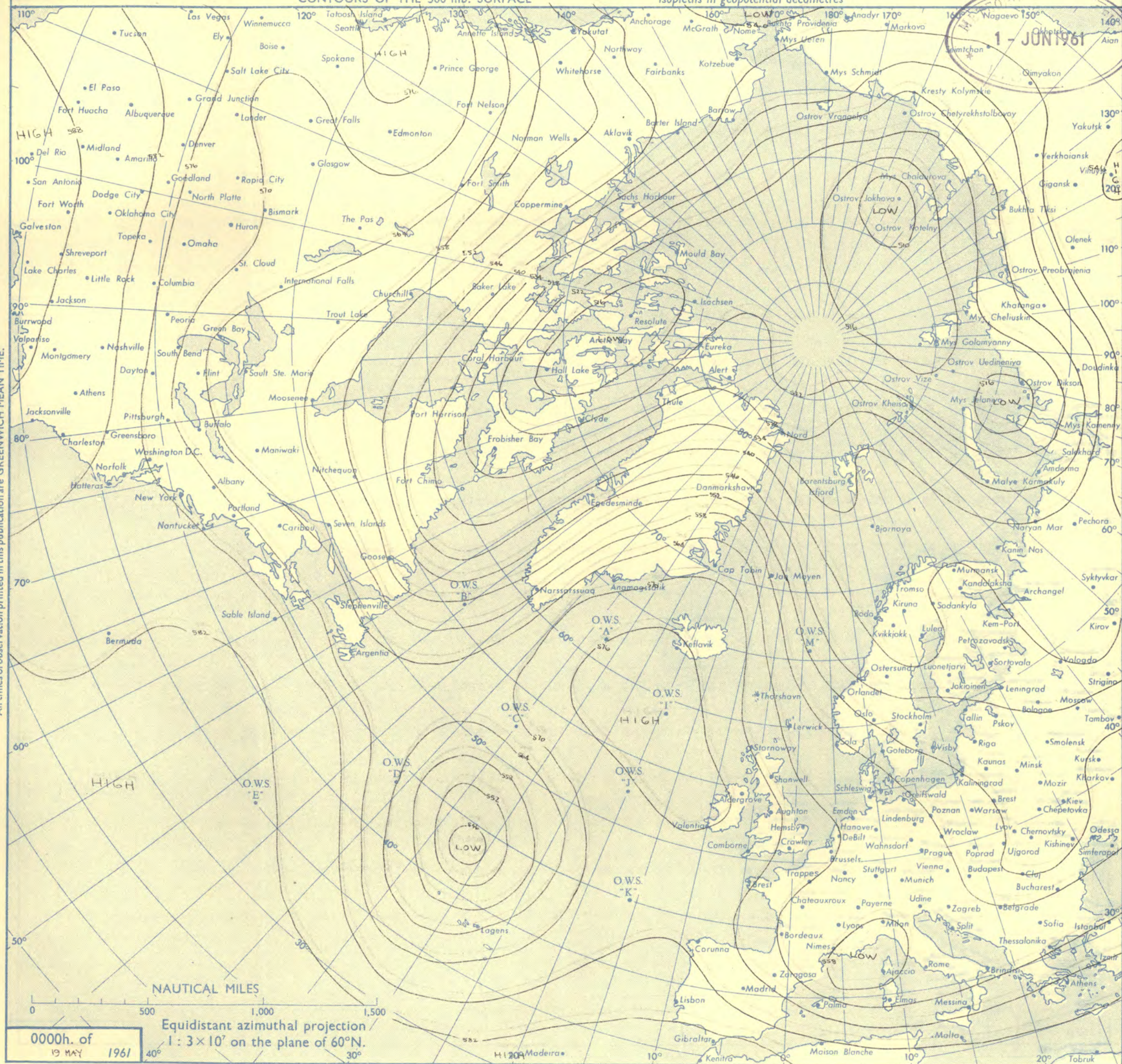
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
181232	67.0°N 09.5°W	023 015 888	061 02 02	180 01 00	1027 00 08	1481 02 24	1963 04 15	06 22	3005 09 18	12 19	4182 15 20	18 22	5544 22 27	
Cloud :— 7/8 St. 400 to 1500 ft. 6/8 Sc. 1600 to 2500 ft. 7/8 Ac. 14000 to 16000 ft. 1/8 Ci. at 25000 ft.														
Inversion Levels :— 1015mb to 1000mb 24°C to 24°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
Cloud :—														
Inversion Levels :— Isothermal Levels :—														
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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
19 MAY 1961Equidistant azimuthal projection
1:3 x 10⁷ on the plane of 60°N.

HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

19 May

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	182332	082	08	08	187	07	07	1511	01	01	3049	07	07	5607	21	23	7216	33	39	9172	48	++	11816	49	13699	51	16337	51	18652	52										
	191128	082	08	04	169	06	01	1480	03	12	3032	02	23	5625	20	33	7246	31	39	9224	47	++	11833	52	13710	50	16342	51	18650	53	20825	53								
STORNOWAY 03026	182330	013	10	08	238	08	06	1557	02	05	3111	03	16	5689	21	25	7301	32	36	9267	48	++	11858	54	13708	54	16311	53	18600	54										
	191133	013	12	07	219	10	05	1540	00	03	3095	00	13	5706	18	30	7332	30	37	9312	46	++	11910	55	13764	53	16387	53	18688	53										
SHANWELL 03170	182330	005	10	08	223	10	04	1549	01	01	3097	02	24	5679	19	32	7304	31	42	9278	47	++	11855	59	13692	53	16300	54	18587	53	20753	53	24054	53						
	191130	005	15	05	193	11	02	1518	02	03	3056	06	13	5641	20	36	7252	32	43	9213	48	++	11835	51	13709	52	16330	54	18628	53	20797	53	24094	53						
ALDERGROVE 03917	182330	077	06	05	233	07	04	1565	06	12	3133	02	19	5720	20	37	7335	33	48	9295	49	++	11853	59	13684	55	16277	55	18564	54	20730	53	24020	53						
	191130	077	13	06	209	11	06	1536	00	01	3093	04	13	5685	21	37	7290	34	46	9237	50	++	11848	52	13715	53	16330	54	18625	54										
AUGHTON 03322	182330	056	08	06	232	09	04	1556	05	02	3124	03	12	5715	19	36	7330	33	42	9297	46	++	11905	56	13750	53	16364	53	18668	52	20853	51	24171	51						
	191130	056	13	07	206	09	04	1527	02	09	3077	04	20	5646	23	36	7241	36	46	9184	48	++	11812	52	13678	52	16303	52	18606	51	20797	52	24144	48						
HEMSBY 03496	182330	012	09	07	208	08	05	1524	02	04	3081	03	25	5653	21	34	7258	34	47	9205	50	++	11774	55																
	191130	012	12	07	182	10	05	1504	01	03	3049	05	10	5612	21	27	7221	33	39	9176	49	++	11770	51	13644	51	16275	51												
CRAWLEY 03774	182330	144	08	07	217	08	06	1543	01	04	3097	02	34	5680	20	32	7290	33	43	9246	49	++	11817	55	13669	53	16284	51	18591	52	20768	50								
	191131	144	11	04	196	10	01	1514	01	03	3072	04	12	5648	20	31	7268	32	41	9234	48	++	11822	55	13677	52	16291	52	18598	52	20780	52	24074	53						
CAMBORNE 03808	182330	088	09	08	226	10	07	1565	04	08	3125	02	14	5710	20	29	7320	34	42	9272	50	++	11813	61	13624	57	16187	57	18448	57	20589	55								
	191130	088	13	09	204	11	06	1542	07	08	3107	01	20	5703	19	40	7319	32	49	9284	48	++	11857	58	13687	55	16277	57	18551	56	20701	55	23955	55						
VALENTIA 03953	182330	014	10	08	240	12	10	1584	08	03	3158	00	17	5770	18	29	7390	31	40	9370	47	++	11950	60	++++	++	16370	55												
	191130	014	16	13	222	12	08	1560	04	10	3117	03	18	5680	22	36	7280	36	49	9210	52	++	11740	61	++++	++	16080	58												
Ocean Weather Station 'I' 59°00'N 19°00'W	190001		10	09	271	09	06	1599	05	00	3176	00	16	5780	18	33	7410	29	43	9400	45	++	12000	62	13820	56	16410	56	18690	56										
	191200		09	08	255	07	06	1587	06	13	3167	00	25	5780	17	38	7420	28	47	9420	44	++	12010	61	13800	59	16390	52	18680	54										
Ocean Weather Station 'J' 52°30'N 20°00'W	182300		12	10	218	09	07	1561	04	02	3130	00	22	5740	17	37	7370	30	47	9350	46	++	11940	60	13780	53	16390	54	++++	++	20840	54	24130	52						
	191100		12	10	206	09	07	1547	04	06	3111	02	19	5700	20	37	7310	32	46	9270	48	++	11850	56	13700	53	16310	54	++++	++	20750	52	24070	++						

STATION	ww N _H C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	61 573++	023 013 829	947 05 05 917 05 05 871 02 02 788 02- 02- 610 13- 14- 592 13- 14- 545 18- 19- 529 18- 19- 420 ++ 36- 355	40- 46- 298 48- 268 52- 200 49- 147 52- 100 51- 063 52-		268	09900	52-
	02 884++	021 011 919 798	002 06 01 895 02- 04- 869 ++ 11- 857 03 11- 820 ++ 17- 772 02- 17- 721 01- 21- 607 09- 30- 499 20- 33-	468 ++ 30- 441 25- 35- 336 40- 47- 245 57- 163 49- 130 52- 100 51- 030 53-		245	10550	57-
STORNOWAY 03026	03 554++	029 028 780	990 ++ 05 960 ++ 02 879 00 01- 854 02 04- 843 ++ 07- 810 01 06- 722 02- 15- 683 ++ 18- 602 10- 17- 510	20- 24- 343 40- 43- 262 55- 230 59- 191 53- 081 55- 066 53-		230	10990	59-
	01 62532	026 025 852 789 694	007 10 05 900 02 01- 833 01- 05- 818 ++ 09- 809 01 08- 782 ++ 11- 762 01- 08- 713 01 11- 656 ++ 18- 617	05- 20- 447 25- 35- 335 40- 46- 253 55- 228 59- 178 52- 068 53-		228	11060	59-
SHANWELL 03170	02 854++	027 027 836 777	024 ++ 05 011 11 05 905 03 01 811 01- 03- 805 ++ 03- 789 00 11- 783 ++ 14- 747 01- 20- 719 01- 23- 644 ++	29- 558 ++ 25- 551 16- 28- 538 ++ 32- 533 15- 31- 505 ++ 31- 446 24- 39- 339 40- 48- 281 51- 231 60- 208		231	10970	60-
	02 785++	023 023 870	016 12 03 858 01- 02- 789 05- 06- 772 03- 05- 740 05- 15- 731 04- 12- 710 ++ 11- 699 06- 13- 661 06- 19-	610 08- 26- 578 ++ 23- 528 ++ 33- 489 21- 36- 423 31- 42- 403 32- 43- 352 40- 50- 270 53- 250 55- 179 50-		250	10395	55-
ALDERGROVE 03917	02 15600	029 019 731	005 07 05 954 05 03 910 07 05- 897 ++ 13- 871 05 11- 843 07 12- 834 ++ 13- 822 ++ 06- 770 ++ 15- 580 12- 29-	385 35- 50- 275 54- 242 60- 220 63- 183 56- 056 53- 030 53-		220	11250	63-
	02 784++	025 016 860 746	987 09 04 858 00 01- 832 03 08- 806 03 13- 749 ++ 16- 725 01- 13- 694 04- 12- 676 ++ 13- 646 04- 19- 522 18-	35- 369 38- 49- 291 52- 250 55- 176 50- 158 53- 074 54- 055 52-		250	10413	55-
AUGHTON 03322	02 855++	028 021 737	003 09 05 877 00 02- 863 05 00 854 ++ 02- 828 ++ 05- 820 ++ 02- 807 05 04- 722 ++ 07- 713 02- 09- 678 ++	18- 667 04- 18- 542 14- 32- 482 ++ 37- 388 35- 44- 230 57- 160 53- 030 51-		230	11020	57-
	02 52500	025 018 882 770	999 09 04 871 01- 04- 854 02 06- 845 ++ 12- 812 ++ 12- 723 02- 16- 653 ++ 23- 605 11- 21- 589 ++ 20- 578	15- 23- 548 16- 27- 503 22- 35- 370 40- 50- 271 52- 241 54- 124 51- 089 54- 030 48-		241	10610	54-
HEMSBY 03496	02 855++	025 024 890 752	978 ++ 01 877 01- 03- 849 02- 04- 837 04 14- 808 04 16- 798 ++ 12- 790 03 15- 759 ++ 09- 733 ++ 22- 610	10- 31- 601 11- 24- 590 12- 27- 567 ++ 24- 551 ++ 30- 379 37- 49- 249 59- 231 61- 194 54- 152 54-		231	10880	61-
	02 885++	022 020 868 779	840 02- 03- 828 ++ 02- 802 01 05- 768 ++ 07- 760 01- 05- 660 ++ 12- 635 ++ 18- 576 ++ 26- 521 ++ 25- 493	22- 28- 355 40- 45- 253 58- 244 59- 204 51- 090 50-		244	10500	59-
CRAWLEY 03774	02 455++	027 009 832 740	995 ++ 04 970 ++ 05 906 04 01 833 ++ 05- 819 01- 09- 798 01 17- 769 01 26- 697 02- 33- 598 ++ 23- 521 ++	34- 453 ++ 36- 371 37- 48- 272 55- 227 62- 198 54- 083 52- 050 50-		227	11000	62-
	02 856++	024 006 888 753	000 ++ 01 984 07 00 855 02- 04- 829 03 04- 800 ++ 10- 786 ++ 06- 772 ++ 10- 767 01 10- 730 ++ 11- 694	05- 12- 678 ++ 17- 635 ++ 23- 538 ++ 32- 494 20- 32- 476 21- 33- 368 37- 46- 220 61- 187 52- 030 53-		220	11220	61-
CAMBORNE 03808	02 00900	028 017 731	009 10 07 986 ++ 07 966 10 03 938 ++ 01 837 ++ 10- 817 02 09- 774 03 11- 745 ++ 11- 667 ++ 18- 546 15-	25- 416 31- 39- 355 40- 47- 251 60- 217 65- 187 58- 091 56- 078 57- 050 55-		217	11310	65-
	03 51500	025 014 735 708	983 09 05 942 06 04 937 ++ 04 920 08 04- 891 ++ 13- 854 07 10- 795 03 05- 766 ++ 18- 737 ++ 12- 721 01-	17- 712 00 19- 460 24- 44- 404 32- 49- 231 60- 131 54- 103 57- 052 54- 030 55-		231	10970	60-
VALENTIA 03953	02 00900	029 027 700	994 12 10 882 05 04 866 09 06- 767 02 06- 730 02 14- 665 03- 19- 572 09- 22- 400 31- 40- 263 54- 230 60-	203 61- 181 56- 138 54- 081 56- 066 53-		230	11100	60-
	02 11600	026 025 734	954 08 05 922 06 04 902 07 06- 809 02 11- 734 00 16- 628 10- 24- 496 22- 37- 369 40- 293 54- 238 63- 151	59- 105 58- 055 62-		238	10600	63-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 00902	033 033 696	980 08 04 885 03 00 870 05 02- 797 06 09- 738 04 13- 464 22- 37- 422 26- 40- 332 40- 213 62- 195 62- 183	56- 120 54- 066 56-		213	11600	62-
	02 863++	031 031 700	008 07 07 978 08 04 894 04 01 849 ++ 15- 814 08 18- 770 04 21- 750 04 22- 502 17- 38- 456 21- 41- 376 32-	50- 239 57- 208 62- 187 62- 106 52- 089 54- 063 54-		208	11800	62-
Ocean Weather Station 'J' 59°00'W	03 854++	026 026 700	994 09 07 961 12 04 867 04 00 755 03 19- 582 08- 29- 432 26- 44- 290 47- 220 60- 203 61- 176 52- 065 54-			203	11900	61-
	02 25542	024 024 730	984 08 06 965 10 01 917 07 02- 903 08 05- 836 03 06- 822 05 10- 597 09- 28- 441 27- 44- 228 61- 180 52-	070 55- 035 50-		228	11000	61-

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	19800m 060 16 06200/0 10350/1 21300m 050 13 11550/1	020 83 08640m 020 89 10040m 030 73 11300m
STORNOWAY 03026	073mb 040 23 076mb 030 21 18000m 050 18	030 71 10760m
SHANWELL 03170	P25800m 080 09 16600m 040 19 12020/0 354mb 030 69 2200m 020 43 P28100m 080 07 06070m 020 39 22000m 070 14 11400/1 11850/1	030 93 09910m 040 79 11170m
ALDERGROVE 03917	11200/2 13150/1 055mb 070 15 25500m 090 14 07800/0 09200/0 10750/1 11500/1	
AUGHTON 03322	P22600m 080 14 17100m 030 13 25200m 090 12 22200m 080 13 07910/0 10420/1	040 92 09650m
HEMSBY 03496	164mb 010 18 11010/1	
CRAWLEY 03774	P26100m 080 15 20400m 100 11 09110/0 19200m 060 10 10070/1 28800m 060 13 29700m 090 05 02310/5 09860/4 10250/1	280 65 09610m
CAMBORNE 03808	P24300m 080 16 16500m 360 12	
VALENTIA 03953	882mb 060 07 767mb 050 10 572mb 040 06 138mb 010 14 081mb 030 15 066mb 040 14 902mb 010 06 734mb 030 11 628mb 010 16 238mb 360 12 151mb 020 13 055mb 090 10	
Ocean Weather Station 'I' 59°00'N 19°00'W	458mb 100 09 06300m 120 13 25200m 070 19 02700/8 11850/0 067mb 090 21 12600m 120 27 20100m 070 24 04850/2 06600/0	
Ocean Weather Station 'J' 52°30'N 20°00'W	994mb 130 24 961mb 140 28 867mb 140 36 755mb 140 30 582mb 140 30 432mb 140 28 00300m 120 27 00600m 130 30 917mb 130 28 822mb 130 26 597mb 130 28 441mb 130 22 228mb 130 18 180mb 130 16 00300m 120 17 00600m 130 18	
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The trough in the Davis Strait area has moved steadily east and the downwind ridge over eastern Greenland has continued to develop. A new trough is developing in the Great Lakes area and is moving east. The cut-off low near the Azores persists with only slight eastward movement. The high to the northwest of the British Isles persists with little change. The trough over the Norwegian west coast has moved southeast and deepened. The trough across Russia to the western Mediterranean has moved southeast. The small low off north Corsica is now moving on a more easterly track.

AVERAGE AND EXTREME VALUES 1951-55
MAY

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	22145	-50.1	-46	-55	...	...
60	19500	-50.3	-43	-60	102	2
100	16180	-51.4	-44	-62	283	3
150	13540	-51.0	-42	-62	288	7
200	11680	-53.8	-39	-69	288	10
300	9070	-48.8	-37	-56	281	11
400	7125	-35.0	-27	-49	282	10
500	5530	-23.2	-15	-38	283	8
700	2985	-7.0	1	-20	289	4
850	1450	0.9	11	-10	310	2

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9
60	19480	-52.8	-46	-62	69	1
100	16195	-53.8	-44	-61	284	5
150	13590	-53.3	-46	-65	284	10
200	11750	-55.3	-42	-67	282	15
300	9140	-47.7	-38	-56	274	15
400	7180	-33.4	-23	-48	270	13
500	5580	-21.4	-11	-34	267	11
700	3015	-5.3	6	-16	258	7
850	1470	3.0	15	-6	254	5

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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	...	...	...	...	180	2
60	19500	-59.3	-57	-66	270	6
100	16315	-60.2	-51	-67	270	24
150	13775	-59.1	-49	-71	275	40
200	11970	-58.9	-48	-67	275	48
300	9355	-43.8	-39	-49	275	42
400	7365	-28.2	-23	-38	275	34
500	5720	-16.0	-12	-28	275	27
700	3095	2.2	9	-9	275	16
850	1500	12.2	24	2	275	9

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	117	-65.1	...	80	...	-71
Lower	199	-60.9	365	...	-41	...

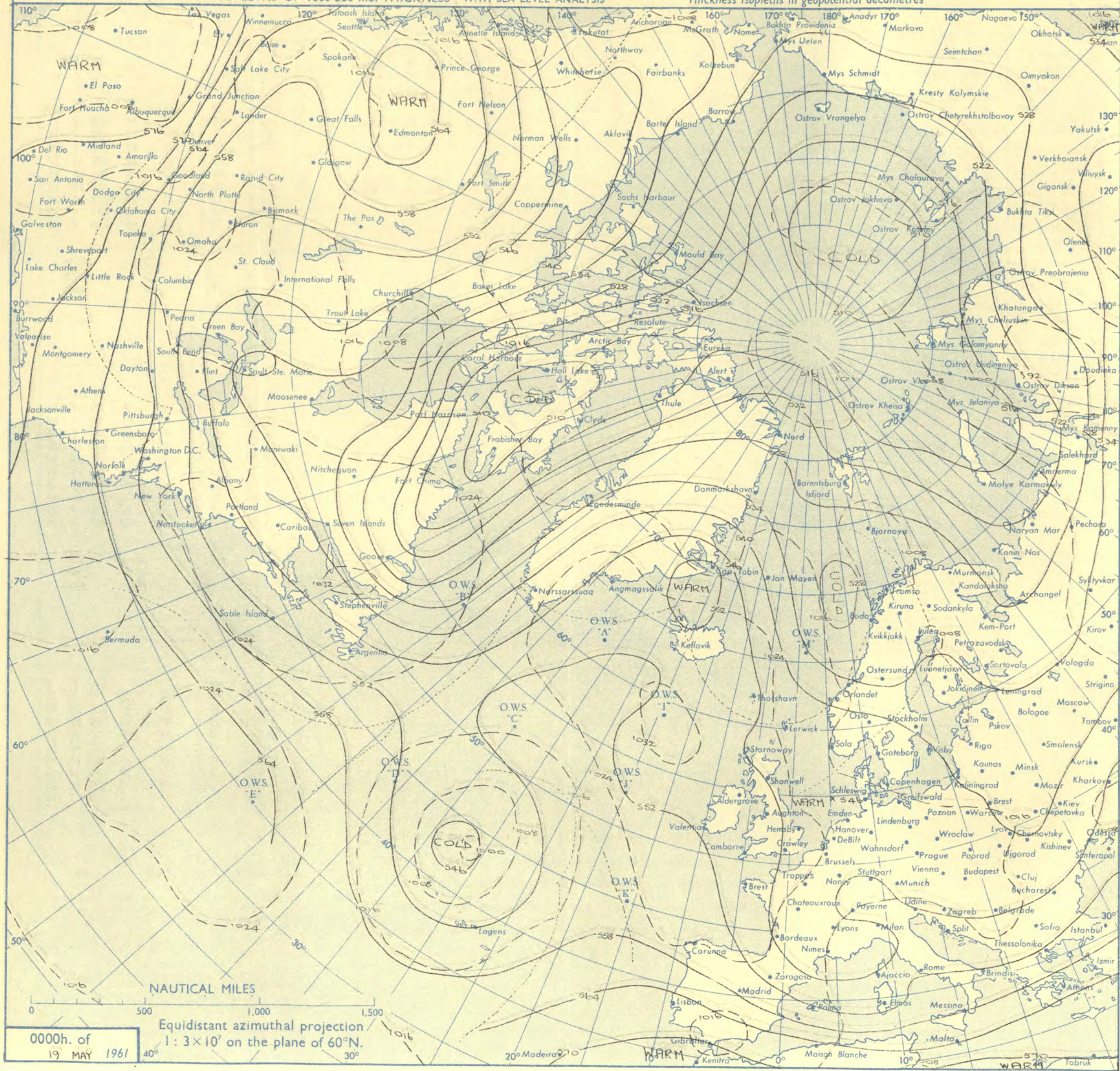
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† 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

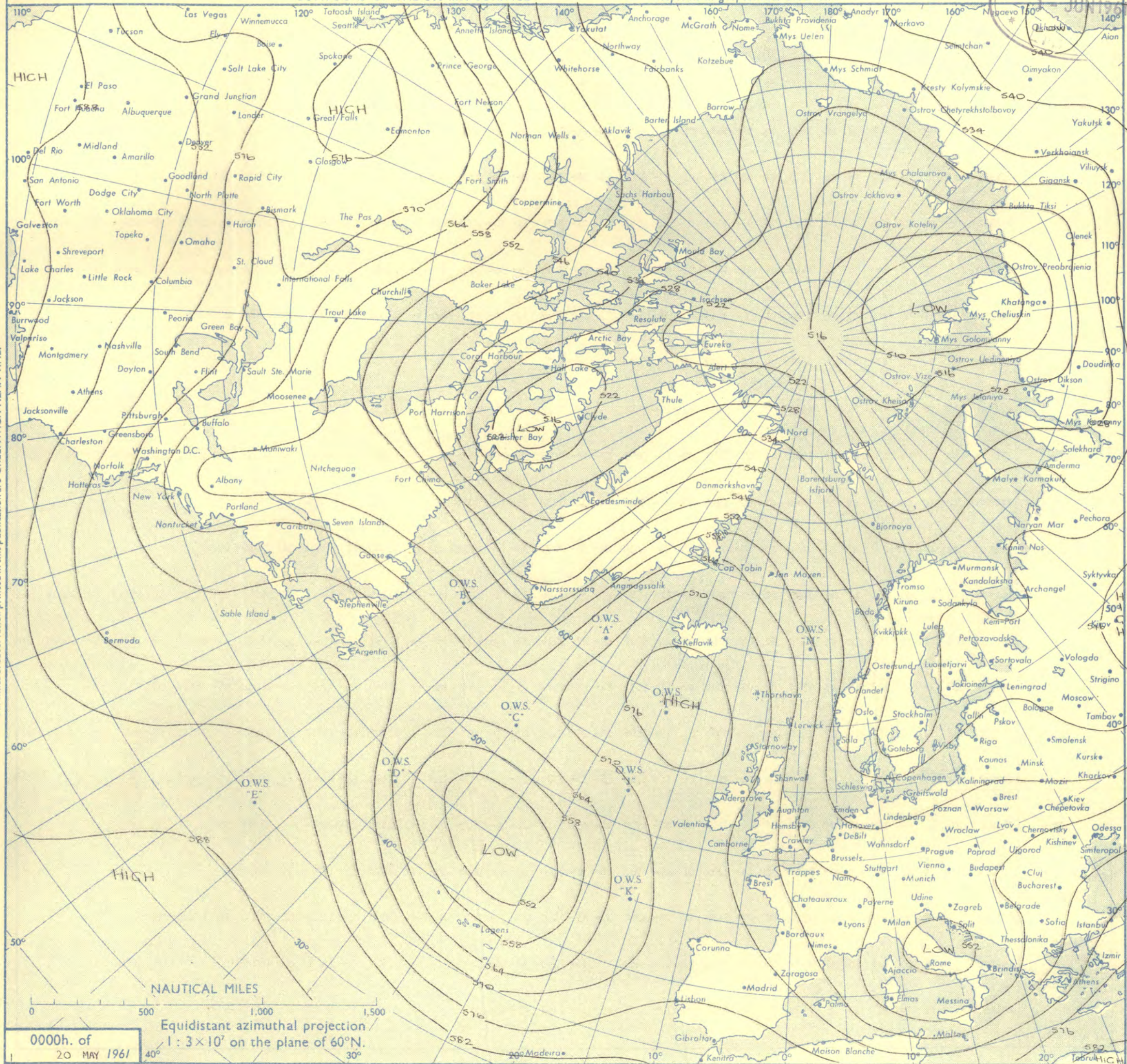
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

20 May 1961

1701

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	192335	082	06	02	171	05	01	1477	01	16-	3026	03-	14-	5627	18-	26-	7258	30-	39-	9242	47-	++	11837	55-	13690	53-	16320	52-	18623	52-				
	201130	082	09	02	173	07	00	1484	00	10-	3035	02-	07-	5631	18-	29-	7266	29-	41-	9258	45-	++	11906	51-										
STORNOWAY 03026	192330	013	09	07	208	08	04	1527	00	03-	3085	01	11-	5715	16-	25-	7350	29-	36-	9336	45-	++	11920	62-	13740	54-	16336	54-						
	201130	013	11	07	202	08	04	1518	01-	05-	3084	01-	09-	5701	15-	38-	7347	28-	44-	9347	44-	++	11963	59-	13779	55-	16372	54-	18672	54-	20817	54-		
SHANWELL 03170	192330	005	08	02	181	08	02	1499	00	07-	3040	02-	14-	5647	17-	21-	7276	31-	34-	9260	45-	++	11844	62-	13673	53-	16278	54-	18569	54-	20741	52-	24035	52-
	201130	005	11	03	180	08	01	1497	01-	04-	3043	03-	09-	5652	18-	25-	7290	29-	38-	9285	44-	++	11893	59-	13714	55-	16316	53-	18612	54-	20781	53-	24073	53-
ALDERGROVE 03917	192330	077	09	07	187	08	06	1511	01	02-	3069	01	18-	5685	17-	24-	7317	30-	34-	9294	47-	++	11868	60-	13695	55-	16287	55-	18572	52-	20738	52-		
	201130	077	13	04	178	11	04	1505	00	02-	3072	02-	12-	5704	15-	24-	7354	27-	35-	9354	44-	++	11952	61-	13757	56-	16353	54-	18654	51-	20849	50-	24180	51-
AUGHTON 03322	192330	056	10	09	174	10	08	1506	02	03-	3050	02-	19-	5648	18-	25-	7272	31-	35-	9251	46-	++	11836	57-	13677	54-	16273	55-	18562	54-	20728	53-	24009	54-
	201130	056	13	04	168	11	03	1492	00	01-	3043	02-	18-	5653	17-	25-	7295	28-	35-	9293	45-	++	11895	60-	13710	56-	16306	53-	18617	49-	20806	52-	24128	52-
HEMSBY 03496	192330	012	10	07	148	08	05	1466	01-	02-	2996	07-	13-	5545	24-	34-	7139	35-	43-	9084	49-	++	11721	50-	13596	52-	16223	52-						
	201130	012	10	04	137	08	02	1450	03-	05-	2984	05-	39-	5558	20-	34-	7173	33-	40-	9152	45-	++	11785	51-	13653	51-	16297	52-						
CRAWLEY 03774	192330	144	10	06	166	10	06	1495	00	02-	3026	07-	12-	5587	22-	35-	7186	35-	42-	9131	49-	++	11764	51-	13627	52-	16241	53-	18539	52-	20713	52-	24002	54-
	201130	144	12	05	150	12	05	1474	00	04-	3012	05-	24-	5599	19-	29-	7214	32-	37-	9188	46-	++	11792	56-	13632	54-	16242	53-	18457	52-	20724	52-	24024	50-
CAMBORNE 03808	192330	088	11	08	177	10	07	1513	05	07-	3084	02-	11-	5677	21-	28-	7287	33-	40-	9242	49-	++	11840	54-	13685	54-	16282	54-	18577	53-	20741	53-		
	201130	088	13	09	161	12	09	1495	04	01-	3063	01	19-	5686	16-	25-	7325	28-	39-	9316	45-	++	11906	61-	13711	56-	16297	56-	18581	52-	20754	53-	24071	50-
VALENTIA 03953	200001	014	13	09	196	13	09	1541	06	04-	3117	01	10-	5740	16-	33-	7380	29-	38-	9370	44-	++	11970	63-	++++	++	16380	53-						
	201200	014	14	05	187	13	05	1528	07	01-	3117	02	06-	5770	14-	23-	7410	28-	34-	9420	43-	++	12020	63-	++++	++	16390	55-						
Ocean Weather Station 'I' 59°00'N 19°00'W	200001		10	07	245	08	06	1581	07	13-	3162	01	24-	5780	16-	36-	7420	30-	50-	9400	47-	++	11970	60-	13790	56-	16390	54-						
	201200		10	09	238	08	07	1572	08	07-	3157	02	20-	5780	17-	33-	7420	29-	39-	9400	46-	++	11980	57-	13820	52-	16430	56-	18720	52-				
Ocean Weather Station 'J' 52°30'N 20°00'W	192300		11	10	197	10	07	1532	04	11-	3091	02-	22-	5680	19-	36-	7290	32-	46-	9260	48-	++	11820	56-	13670	54-	16270	54-	++++	++	20710	54-		
	201100		13	06	193	10	05	1524	06	01-	3098	00	17-	5720	15-	34-	7350	29-	45-	9340	46-	++	11940	53-	13810	50-	16460	50-						

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE			
		MSL	Surf.	0°C level		mb	m	°C	
LERWICK 03005	02 855++	021 011 935 810	900 03- 05- 877 01 09- 870 ++ 13- 845 01 17- 768 02- 20- 748 01- 19- 708 02- 15- 673 ++ 10- 650 06- 11- 612 07- 13- 361 35- 44- 335 40- 47- 268 53- 212 60- 198 54- 114 51- 100 52- 058 51- Pressure suspect above 200mb.				212	11490	60-
	01 38432	021 011 922 851 737	912 01- 02- 898 02 04- 870 ++ 09- 836 ++ 10- 816 ++ 06- 809 02- 07- 785 02- 06- 757 01 09- 712 ++ 07- 712 ++ 07- 641 05- 09- 581 ++ 15- 574 12- 17- 549 13- 22- 528 16- 27- 400 29- 41- 330 40- 50- 248 54- 227 50- 175 52-				248	10500	54-
STORNOWAY 03026	01 3563+	025 024 878 680	022 10 05 003 ++ 05 873 00 03- 850 00 03- 811 03- 05- 785 01 04- 716 02 09- 599 05- 16- 332 40- 47- 223 61- 196 62- 152 54- 109 55- 094 52- 078 55-				223	11240	61-
	02 355++	025 023 880 710	019 09 05 986 ++ 02 944 ++ 02 855 02- 03- 841 01 13- 838 ++ 18- 815 03 15- 807 ++ 15- 793 ++ 06- 782 03 05- 735 ++ 05- 696 ++ 09- 688 ++ 19- 668 ++ 14- 618 ++ 24- 593 07- 26- 549 ++ 36- 514 14- 37- 494 15- 39- 446 22- 41- 338 ++ 49- 288 46- 224 57- 202 59- 184 60- 158 55- 103 55- 092 52- 059 58- 056 53- 042 56-				202 059	11910 19770	59- 58-
SHANWELL 03170	02 10941	022 021 857	010 ++ 02 996 08 02 941 03 00 922 03 00 880 01 06- 810 03- 11- 753 04- 12- 731 01- 11- 720 01- 14- 616 07- 17- 568 12- 16- 370 35- 38- 329 40- 43- 246 57- 205 63- 181 55- 150 53- 100 54- 030 52- Pressure doubtful above 050 mb.				205	11690	63-
	02 784++	022 021 898 792	997 08 01 867 02- 03- 837 01 08- 806 01 13- 770 02- 17- 732 ++ 16- 707 04- 11- 693 ++ 08- 663 02- 10- 520 16- 20- 500 ++ 25- 485 19- 25- 448 22- 31- 323 40- 48- 241 55- 216 59- 122 54- 100 53- 030 53-				216	11380	59-
ALDERGROVE 03917	01 5643+	023 013 832 792	992 07 05 964 06 04 932 05 03 830 00 03- 812 ++ 07- 782 01- 07- 716 01- 17- 589 08- 28- 549 11- 22- 487 19- 25- 470 ++ 26- 429 26- 31- 339 ++ 44- 329 42- 236 60- 210 64- 192 57- 092 55- 069 52- 059 55- 050 52-				210	11570	64-
	01 4530+	021 012 664	999 11 04 959 00 01- 842 00 03- 830 00 02- 800 ++ 07- 780 ++ 06- 746 04 10- 710 ++ 11- 666 00 10- 545 ++ 18- 516 ++ 23- 383 30- 38- 322 ++ 47- 251 54- 211 62- 127 54- 112 55- 047 50- 042 52- 038 49- 030 51-				211	11620	62-
AUGHTON 03322	02 856++	021 014 826	012 11 09 008 ++ 07 998 10 08 973 10 06 962 09 04 759 05- 08- 748 ++ 07- 722 01- 14- 713 ++ 19- 628 06- 23- 578 ++ 27- 500 ++ 25- 412 29- 34- 336 40- 45- 230 60- 214 61- 198 56- 100 55- 030 54-				230	10980	60-
	02 785++	020 013 850 740	883 00 01- 818 ++ 02- 807 01- 05- 793 ++ 11- 781 01 12- 724 00 19- 688 ++ 17- 673 ++ 11- 657 04- 11- 604 06- 16- 433 23- 31- 324 40- 48- 214 60- 112 53- 095 53- 070 49- 054 52- 030 52-				214	11440	60-
HEMSBY 03496	02 856++	018 017 867	010 09 06 970 ++ 04 809 04- 05- 784 03- 07- 770 ++ 11- 743 ++ 13- 691 ++ 14- 672 ++ 17- 650 11- 18- 627 11- 22- 513 22- 33- 432 31- 38- 367 40- 46- 270 54- 235 50- 077 51-				270	09780	54-
	02 784++	017 015 895	983 06 01 941 ++ 00 880 01- 05- 814 05- 07- 798 01- 15- 794 ++ 20- 755 ++ 34- 705 05- 45- 650 ++ 23- 588 11- 33- 437 27- 37- 398 33- 40- 386 32- 41- 334 40- 48- 287 48- 225 54- 198 51- 100 52-				225	11010	54-
CRAWLEY 03774	02 855++	020 003 840	986 10 05 868 01 01- 810 02- 05- 723 08- 10- 714 07- 09- 700 07- 12- 669 ++ 13- 634 11- 18- 615 10- 22- 580 ++ 27- 500 ++ 35- 365 ++ 46- 349 43- 260 53- 235 50- 100 53- 030 54-				260	10070	53-
	02 3853+	018 001 850	971 08 01 893 02 02- 830 ++ 05- 808 03- 09- 776 01- 16- 709 04- 23- 669 05- 20- 606 10- 15- 582 10- 19- 578 ++ 22- 498 ++ 30- 450 ++ 31- 435 ++ 35- 396 33- 38- 378 34- 43- 339 ++ 50- 289 48- 244 56- 221 58- 194 54- 098 52- 039 54- 030 50-				221	11170	58-
CAMBORNE 03808	02 454++	022 011 728	920 05 03 883 04 00 865 06 03- 860 ++ 05- 820 ++ 11- 757 02- 13- 723 ++ 07- 690 02- 12- 670 02- 18- 593 ++ 24- 501 20- 27- 465 ++ 29- 417 ++ 37- 355 40- 46- 261 56- 171 54- 099 55- 040 52-				261	10160	56-
	02 655++	019 009 690	988 10 07 945 06 04 926 07 05 893 ++ 01 870 03 00 832 04 08- 798 02 06- 781 04 09- 721 02 18- 640 03- 22- 609 ++ 15- 557 09- 19- 467 20- 28- 380 31- 42- 330 40- 47- 232 59- 196 62- 157 56- 097 56- 070 52- 053 53- 030 50-				196	12020	62-
VALENTIA 03953	01 00901	023 022 690	022 13 09 920 08 06 879 06 00 761 05 13- 648 03- 14- 615 04- 23- 329 40- 48- 215 61- 200 63- 179 57- 087 52-				200	12000	63-
	03 58501	022 021 650	870 03 00 854 07 01 830 08 08- 803 07 01- 785 07 04- 702 02 06- 672 02 16- 587 05- 22- 570 05- 23- 398 28- 34- 214 61- 179 64- 166 54- 116 59- 094 54- 060 55-				179	12700	64-
Ocean Weather Station 'I' 59°00'N 19°00'W	10 864++	030 030 692	966 05 04 951 07 07 929 ++ 02 923 09 03 907 ++ 03 896 07 00 863 07 13- 783 07 19- 468 19- 38- 337 40- 234 60- 209 62- 189 57- 100 54-				209	11700	62-
	10 854++	029 029 681	964 05 05 925 04 04 912 06 06 884 09 04 867 ++ 03- 828 ++ 14- 767 06 15- 709 03 19- 653 03- 25- 420 26- 38- 338 40- 46- 217 62- 209 58- 164 52- 116 53- 106 56- 058 52-				217	11500	62-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 15542	023 023 750	988 09 06 963 09 00 871 04 09- 828 04 13- 604 08- 30- 482 21- 37- 318 44- 239 61- 190 53- 096 54- 037 54-				239	10700	61-
	03 855++	023 023 700	895 01 01- 869 07 01 833 05 04- 716 01 16- 572 09- 28- 505 15- 34- 357 35- 50- 238 58- 192 52- 158 50- 075 50-				238	10800	58-

UPPER WINDS AT STANDARD LEVELS

20 May 1961

1961

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	192335	T	360 13	+++ ++	360 19	360 21	010 27	010 35	010 47	010 48	010 52	020 63	020 62	020 47	030 37	020 25	040 21	050 21			
	200530	P	010 16	+++ ++	010 21	010 20	010 22	010 30	010 39	360 38	360 53	360 66	360 64	010 49	030 37	030 32					
	201130	T	040 18	+++ ++	010 18	020 22	360 26	010 28	010 32	010 39	010 45	360 66	350 66	020 42							
	201730	P	320 14	+++ ++	330 12	360 14	350 29	360 38	360 33	360 32	360 34	010 50	360 54	010 37	040 26	050 26	050 14				
STORNOWAY 03026	192330	T	000 00	+++ ++	010 14	010 15	360 25	360 29	010 26	010 29	010 36	030 32	040 32	030 37	040 27	050 25					
	200530	P	030 03	+++ ++	010 13	010 16	020 16	020 20	360 19	010 24	020 28	010 26	010 26	030 30	040 27	050 26					
	201130	T	040 08	+++ ++	020 08	360 12	020 25	020 27	020 31	360 37	350 34	350 31	350 30	010 25	050 27	070 18	060 16	080 15			
	201730	P	050 06	+++ ++	010 09	020 14	030 20	030 26	010 28	010 37	010 44	350 32	350 25	360 23	070 19	050 18	080 16				
SHANWELL 03170	192330	T	320 05	+++ ++	350 09	360 15	010 27	360 30	010 38	010 48	020 45	020 61	030 63	030 55	030 33	040 21	050 18	060 15	P070 12	080 13	
	200625	P	360 07	+++ ++	010 16	010 20	360 23	010 28	020 44	010 42	010 48	020 54	020 49	020 48	040 31	050 22	050 21	060 11			
	201130	T	020 12	+++ ++	360 14	360 16	020 23	020 27	360 33	360 39	360 55	360 60	360 60	360 46	040 38	050 18	060 18	080 15	090 12		
	201730	P	120 08	+++ ++	020 09	340 19	020 27	010 29	020 30	010 34	010 44	360 63	360 65	010 41	050 30	040 24	050 16	080 17			
ALDERGROVE 03917	192330	T	360 05	+++ ++	020 10	060 08	360 19	360 25	010 30	020 35	020 41	030 40	040 46	050 44	030 23	060 21	060 12				
	200530	P	330 09	+++ ++	010 14	330 10	360 16	010 22	010 27	010 31	020 33	030 35	030 36	040 38	030 21	050 19	050 20				
	201130	T	360 12	+++ ++	010 13	010 14	010 16	020 18	010 19	010 25	010 30	020 24	020 23	030 32	040 21	040 23	080 16	060 08	090 12		
	201730	P	360 12	+++ ++	030 11	040 07	030 10	020 22	360 22	360 26	360 36	360 37	360 31	020 23	040 22	060 20	060 16	070 08			
AUGHTON 03322	192330	T	000 00	+++ ++	360 07	010 08	360 20	360 26	360 32	010 33	020 45	030 61	040 68	030 49	020 29	020 23	050 14	040 09			
	200530	P	000 00	+++ ++	350 11	340 14	350 16	010 28	010 31	010 46	020 44	030 56	030 61	030 61	020 33	020 15	060 19	060 11			
	201130	T	330 07	+++ ++	010 07	360 17	010 21	010 25	010 38	010 44	010 46	020 58	020 54	020 45	030 32	040 19	090 13	040 09	P080 11		
	201730	P	300 10	+++ ++	010 12	030 12	360 18	010 26	360 32	360 33	360 56	360 59	360 63	010 38	030 26	050 23	050 12				
HEMSBY 03496	192330	T	320 09	+++ ++	340 22	340 20	330 19	330 21	360 27	010 38	010 49	030 98	030 51	010 33	360 25	030 14					
	200530	P	340 12	+++ ++	340 25	340 29	350 27	360 29	360 42	010 51	020 76	020 76	020 67	020 40	010 25	030 18	030 14	090 19			
	201130	T	360 21	+++ ++	350 27	350 25	350 25	360 36	360 41	010 53	010 68	010 84	010 78	020 47	010 28						
	201730	P	340 16	+++ ++	350 20	350 17	010 21	360 27	360 41	360 45	010 55	010 67	010 62	010 52	020 31	020 22	040 11	050 10			
CRAWLEY 03774	192330	T	000 00	+++ ++	320 11	340 15	360 15	360 13	350 23	360 28	010 41	030 78	030 49	360 34	360 20	010 10	070 12	090 15	040 14		
	200530	P	000 00	+++ ++	360 13	350 14	340 18	350 22	360 34	010 46	010 61	030 68	030 76	010 38	010 23	020 18					
	201130	P	030 07	+++ ++	350 13	340 27	350 27	360 26	360 34	360 43	010 51	020 72	020 73	020 47	010 26	030 17	070 09	070 11			
	201730	P	020 06	+++ ++	010 14	330 21	340 25	360 22	350 34	010 42	360 59	360 68	360 66	360 42	010 32	010 14	060 10	070 13	100 13	090 15	
CAMBORNE 03808	192330	T	350 15	+++ ++	010 22	360 17	340 18	340 25	350 32	010 34	030 39	050 61	040 49	360 25	360 19	020 11	060 09	050 12			
	200530	P	360 12	+++ ++	360 20	360 20	360 21	360 19	360 25	360 27	010 27	030 41	040 46	010 30	360 19	010 14					
	201130	T	360 12	+++ ++	040 13	050 08	360 12	350 17	010 27	010 26	020 26	030 28	050 36	050 30	010 17	360 10	090 13	070 11	P080 15		
	201730	P	350 09	+++ ++	020 05	050 06	020 12	010 18	360 20	010 21	360 30	010 24	020 32	010 23							
VALENTIA 03953	200001	T	080 10	050 06	+++ ++	030 07	+++ ++	020 16	+++ ++	050 21	080 17	080 40	+++ ++	060 19	+++ ++	050 14					
	201200	T	030 09	040 09	+++ ++	020 10	+++ ++	020 15	+++ ++	020 14	050 16	080 15	+++ ++	090 26	+++ ++	060 12					
Ocean Weather Station 'I' 59°00'N 19°00'W	200001	T	300 08	290 10	310 15	330 16	320 04	330 05	090 03	150 06	170 21	160 22	150 27	130 27	120 15						
	200600	P	315 10	+++ ++	310 14	320 17	310 13	010 06	020 03	170 03	+++ ++	+++ ++	+++ ++	160 31	120 24	120 12					
	201200	T	340 09	330 11	340 15	350 15	010 05	040 05	130 03	160 04	+++ ++	+++ ++	170 25	190 35	180 17	120 26	110 15				
	201800	P	360 10	+++ ++	340 08	360 12	360 10	300 05	090 05	+++ ++	+++ ++	+++ ++	200 24	190 27	150 16	130 22	140 12				
Ocean Weather Station 'J' 52°30'N 20°00'W	192300	T	100 19	110 20	+++ ++	110 26	+++ ++	120 30	+++ ++	120 33	130 28	120 22	+++ ++	120 24							
	200600	P	090 20	+++ ++	110 19	110 22	120 26	120 20	120 24	120 24	130 36	130 28	140 23	140 20							
	201100	T	100 15	100 19	+++ ++	110 22	+++ ++	120 26	+++ ++	140 30	140 28	140 28	+++ ++	140 40							
	201800	P	090 10	+++ ++	110 20	100 16	110 16	120 14	120 23	120 28	130 21	230 23	130 22	140 34							
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
201151	65.7°N 10.5°W	021 013 721	061 05 02	168 05 01	1027 05 09	1494 07 09	1987 05 07	02 07	3063 02- 13-	05- 16-	4273 09- 21-	13- 29-	5657 18- 33-	
Cloud :— 2/8 Sc. 2000 to 2500 ft: 1/8 Ci at 25000 ft. Haze layer 600 to 2500 ft.														
Inversion Levels :— 969mb to 950mb 4½°C to 5°C 900mb to 850mb 4½°C to 6½°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 °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
201316	65.0°N 01.0°W	014 006 700	061 03 03	110 01 01	097 06 03	1429 08 05	1929 06 05	02 05	3005 00 16-	04- 17-	4218 10- 26-	15- 29-	5596 20- 35-	
Cloud :— 8/8 Sc. 1500 to 3500 ft.														
Inversion Levels :— 959mb to 850mb 01°C to 08°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	P22500m 050 16 17400m 040 23 20400m 060 14 12600/2	020 71 09780m 360 70 09920m 360 70 10000m
STORNOWAY 03026	083mb 060 24 17600m 060 20 20300m 060 14 12500/2	
SHANWELL 03170	P28800m 080 09 174mb 040 42 P24600m 080 11 12900m 030 40	030 64 10710m 360 64 09260m 350 69 10130m
ALDERGROVE 03917	179mb 040 32 23200m 070 14	
AUGHTON 03322	22800m 080 10 11980/1 P25500m 100 12 06830/0 11590/1	030 72 10300m 040 66 11150m 360 65 10070m
HEMSBY 03496	260mb 030 78 085mb 060 12 06400m 010 67 22350m 070 17 10670/1 19950/2 23060m 070 11	030 102 09290m 020 82 10020m 010 86 09340m 010 70 09520m
CRAWLEY 03774	344mb 020 54 P24600m 070 31 18000m 040 13 08000/0 10000/0 10500/1 10900/1 16900/2 11880/1 28800m 030 07 30000m 120 08 06390/0 11100/1 27080/1	030 81 09400m 030 80 10240m 030 79 09740m 360 72 09880m
CAMBORNE 03808	044mb 060 10 17400m 030 13 P24900m 100 14 13500m 020 17	050 75 09630m
VALENTIA 03953	920mb 030 05 761mb 030 06 615mb 020 12 215mb 080 23 179mb 060 14 087mb 060 11 672mb 360 14 587mb 020 12 214mb 090 24 166mb 100 17 116mb 070 09 060mb 060 13	
Ocean Weather Station 'I' 59°00'N 19°00'W	110mb 100 15 06300m 150 08 10800m 170 27 15000m 110 17 16800m 100 10 280mb 170 25 130mb 150 12 060 mb 100 13 05100m 180 06 09300m 160 22 04250/2 04600/2 13400/7	
Ocean Weather Station 'J' 52°30'N 20°00'W	963mb 120 22 871mb 110 24 828mb 110 27 604mb 120 30 239mb 120 24 00300m 100 16 00600m 110 17 895mb 110 25 833mb 110 17 572mb 130 33 357mb 140 30 238mb 140 33 192mb 140 40 00300m 100 20 00600m 110 24 12900m 140 25	
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The trough over eastern Canada has deepened and moved east and ridge development is taking place to the east over Newfoundland and the Davis Strait. The trough over Greenland has moved east. The cut-off low near the Azores is moving slowly east and filling. The high to the northwest of the British Isles is declining slowly with little movement. The trough over Sweden has continued to move southeast and to deepen. The trough which yesterday extended from Russia to the western Mediterranean has moved east in the north and is filling. In the south the trough has moved more slowly east with the small cut-off low now lying near Rome.

AVERAGE AND EXTREME VALUES 1951-55
MAY

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	22145	-50.1	-46	-55	...	...	(10)
60	19500	-50.3	-43	-60	102	2	11
100	16180	-51.4	-44	-62	283	3	13
150	13540	-51.0	-42	-62	288	7	19
200	11680	-53.8	-39	-69	288	10	27
300	9070	-48.8	-37	-56	281	11	36
400	7125	-35.0	-27	-49	282	10	32
500	5530	-23.2	-15	-38	283	8	26
700	2985	-7.0	1	-20	289	4	20
850	1450	0.9	11	-10	310	2	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		254	-57.8		10230		
Max.		479	-39		12800		
Min.		171	-69		5545		
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	22100	-52.2	-50	-58	85	9	11
60	19480	-52.8	-46	-62	69	1	10
100	16195	-53.8	-44	-61	284	5	14
150	13590	-53.3	-46	-65	284	10	22
200	11750	-55.3	-42	-67	282	15	34
300	9140	-47.7	-38	-56	274	15	45
400	7180	-33.4	-23	-48	270	13	38
500	5580	-21.4	-11	-34	267	11	31
700	3015	-5.3	6	-16	258	7	23
850	1470	3.0	15	-6	254	5	20
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		244	-58.0		10560		
Max.		405	-39		13685		
Min.		158	-72		6825		
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	...	...	...	...	180	2	8
60	19500	-59.3	-57	-66	270	6	10
100	16315	-60.2	-51	-67	270	24	25
150	13775	-59.1	-49	-71	275	40	43
200	11970	-58.9	-48	-67	275	48	53
300	9355	-43.8	-39	-49	275	42	50
400	7365	-28.2	-23	-38	275	34	40
500	5720	-16.0	-12	-28	275	27	32
700	3095	2.2	9	-9	275	16	23
850	1500	12.2	24	2	275	9	16
Tropo- pause		Average	Max.	Min.	Max.	Min.	
		Press.	Temp.	Press.	Press.	Temp.	Temp.
Upper		mb. 117	°C -65.1	mb. ...	mb. 80	°C ...	°C -71
Lower		199	-60.9	365	...	-41	...

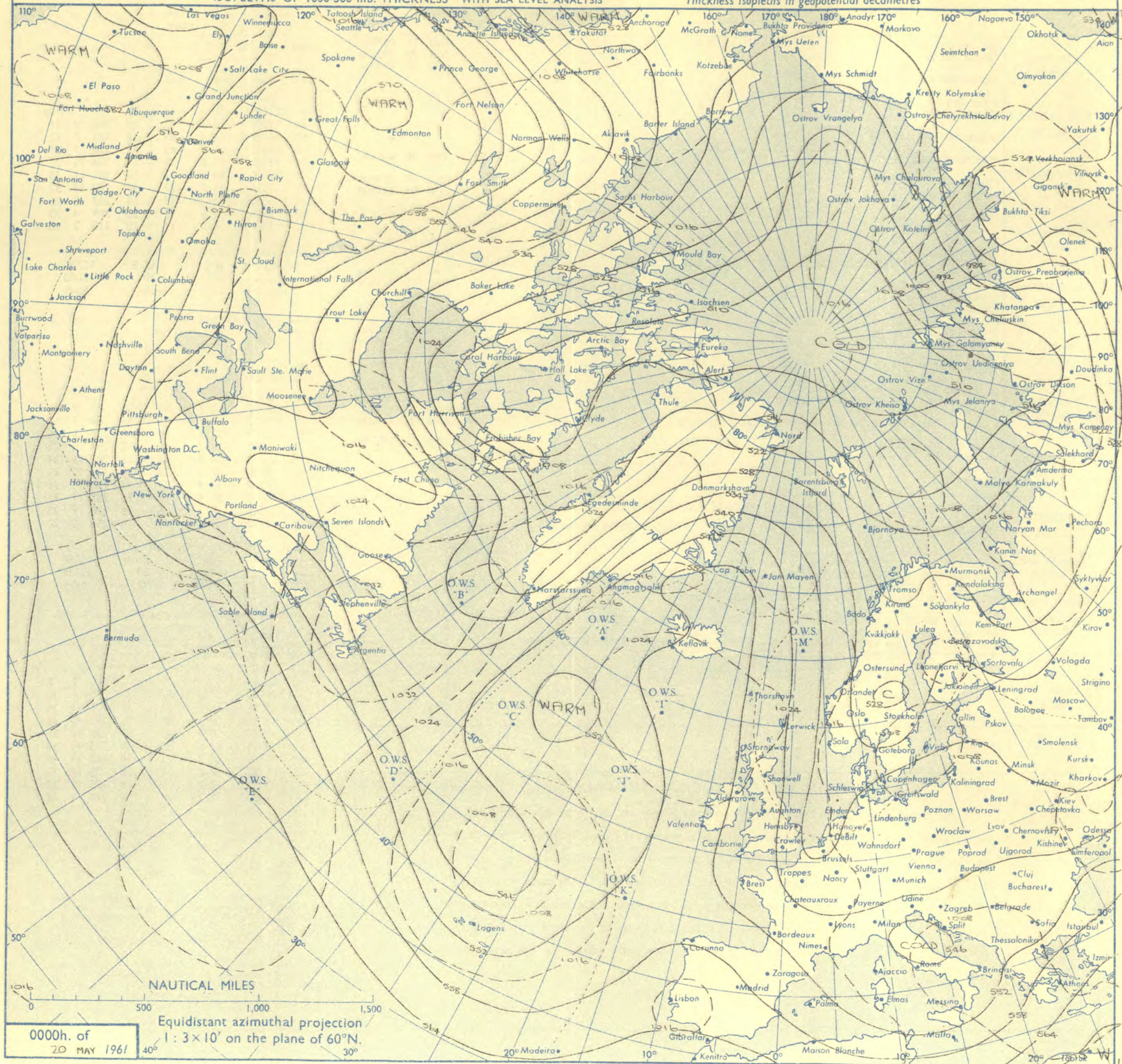
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† 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.

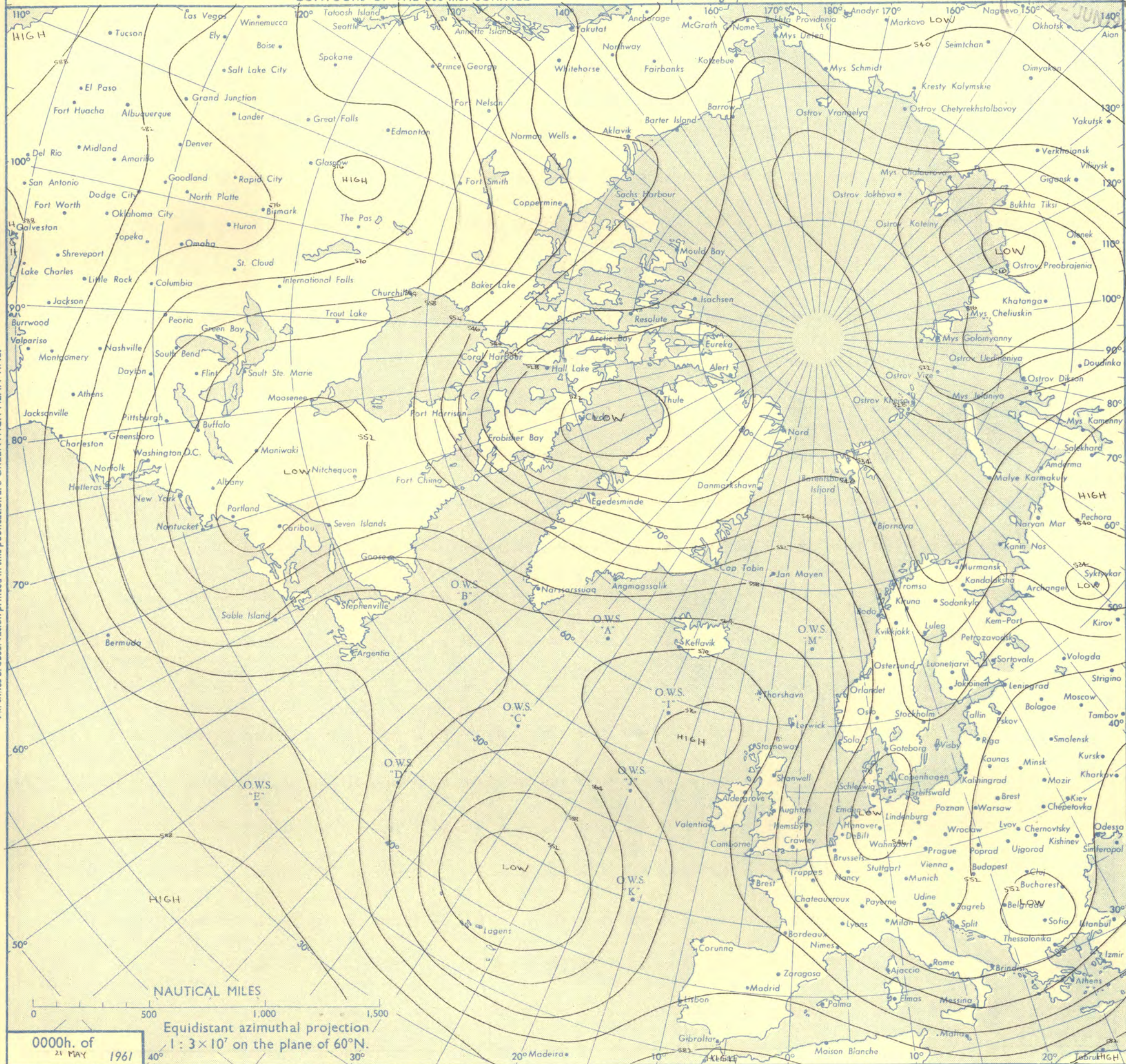
ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

0000h. of
21 MAY 1961Equidistant azimuthal projection
1:3 x 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	202332	082	08	06	166	08	06	1492	04	05	3063	00	10	5672	17	28	7306	29	38	9301	44	++	11953	49	13837	52	16441	55	18126	54	20890	53								
	211130	082	08	05	170	06	03	1493	08	10	3075	01	21	5688	17	38	7319	30	48	9294	47	++	11902	53	13778	52	16377	56	18641	54	20797	54	24060	57						
STORNOWAY 03026	202330	013	07	06	204	08	04	1535	07	02	3113	01	09	5728	15	34	7373	28	46	9367	44	++	11998	54	13865	53	16474	51	18781	52										
	211130	013	11	05	211	08	03	1544	10	08	3131	01	25	5756	15	39	7397	28	47	9388	45	++	12010	53	13873	52	16486	55	18791	52	20971	51								
SHANWELL 03170	202330	005	07	05	192	07	03	1507	02	04	3067	01	07	5675	17	27	7305	30	41	9287	46	++	11903	53	13756	56	16331	55	18614	55										
	211130	005	16	06	195	11	04	1530	07	00	3102	02	09	5705	17	29	7336	30	39	9311	47	++	11918	54	13783	53	16370	55	18652	54	20813	54	24092	53						
ALDERGROVE 03917	202330	077	06	06	188	08	06	1518	02	02	3088	00	10	5701	17	30	7344	28	40	9343	44	++	11959	58	13779	58	16357	54	18643	54										
	211130	077	14	07	203	12	06	1538	06	01	3100	02	10	5690	18	29	7319	30	41	9301	46	++	11914	57	13748	57	16298	56	18565	56	20704	56	23966	56						
AUGHTON 03322	202330	056	07	02	183	07	01	1500	00	02	3050	02	08	5646	17	29	7284	28	40	9264	46	++	11878	55	13708	55	16298	54	18588	53	20751	53								
	211130	056	12	03	197	10	03	1520	00	02	3076	01	07	5677	18	27	7304	31	40	9276	47	++	11884	54	13730	56	16300	56	18574	55	20718	56	23994	52						
HEMSBY 03496	202335	012	08	07	150	08	06	1470	01	06	2992	08	39	5559	20	37	7172	32	49	9136	47	++	11783	50	13654	52	16289	52	18594	52										
	211130	012	12	06	166	08	02	1483	00	09	3015	07	24	5578	20	33	7185	33	44	9135	49	++	11746	49	13617	53	16239	52	18542	53										
CRAWLEY 03774	202330	144	05	03	162	07	03	1476	02	05	3021	04	12	5604	20	26	7219	32	39	9191	46	++	11816	54	13654	54	16262	54	18557	54	20720	53	24016	53						
	211130	144	09	04	175	08	03	1488	03	04	3028	03	20	5620	18	33	7246	31	45	9214	48	++	11824	51	13688	52	16306	53	18612	53	20779	52								
CAMBORNE 03808	202330	088	09	09	162	10	08	1504	03	02	3069	01	08	5682	17	25	7318	28	36	9311	45	++	11909	61	13706	58	16275	57	18550	54	20708	54	23980	53						
	211130	088	14	08	178	13	07	1511	02	00	3076	00	06	5684	17	30	7317	30	42	9299	46	++	11905	58	13736	57	16303	55	18582	54	20741	53								
VALENTIA 03953	210000	014	12	09	185	11	08	1518	01	00	3090	02	09	5720	15	27	7370	27	38	9380	43	++	11990	61	++++	++	16360	55												
	211200	014	16	08	192	13	05	1529	01	01	3101	01	15	5730	15	++	7380	27	++	9380	44	++	11990	59	++++	++	16390	56												
Ocean Weather Station 'I'	210000		10	06	239	08	05	1572	07	06	3146	00	18	5750	17	32	7380	31	40	9350	47	++	11920	59	13860	53	16360	55	18650	53										
	211200		09	06	247	07	05	1577	07	07	3149	01	21	5760	17	29	7390	30	36	9370	46	++	11960	57	13820	51	16450	51	18770	51	20980	48								
59°00'N 19°00'W																																								
Ocean Weather Station 'J'	202300		11	08	189	10	06	1513	04	03	3082	01	18	5680	18	36	7310	30	48	9290	47	++	11860	59	13690	54	16280	55												
	211100		11	08	195	10	06	1519	02	05	3087	01	15	5690	18	34	7310	31	38	9270	47	++	11870	54	13730	52	16360	52												
52°30'N 20°00'W																																								

STATION	ww N _h C _L hC _M C _H	PRESSURE			TROPOPAUSE mb m °C
		MSL	Surf.	0°C level	
LERWICK 03005	02 855++	020 010 697	905 03 02 893 04 01 858 ++ 06- 832 04 04- 799 05 06- 724 02 10- 650 ++ 10- 601 ++ 18- 475 20- 30- 456 ++	31- 321 40- 50- 245 52- 225 53- 204 50- 172 49- 146 53- 100 55- 033 53-	245 10640 52- 146 14020 53-
	02 454++	021 011 688	993 05 02 931 01 01- 911 01 00 899 06 01 878 08 07- 798 07 13- 698 01 21- 635 05- 27- 505 16- 37- 390 32-	50- 287 49- 243 58- 181 49- 137 54- 100 56- 089 59- 072 54- 039 54- 030 57-	243 10660 58- 137 14370 54- 089 17120 59-
STORNOWAY 03026	03 756++	025 024 714	017 09 07 005 ++ 05 925 03 02 904 ++ 07- 894 ++ 02- 880 07 01- 810 07 01- 760 ++ 04- 695 ++ 10- 663 ++	15- 581 09- 24- 491 16- 35- 377 32- 49- 279 48- 227 55- 195 54- 187 50- 141 54- 103 51- 078 54- 067 51- 058 53-	227 11200 55-
	02 855++	026 024 687	004 09 04 907 02 01 901 ++ 03 879 10 05- 856 10 08- 807 08 13- 736 04 22- 640 04- 27- 552 09- 35- 377	32- 50- 263 51- 227 57- 162 50- 136 51- 117 55- 100 55- 078 51- 061 53- 048 50-	227 11200 57- 117 15500 55-
SHANWELL 03170	02 15500	024 023 900 738	011 ++ 02 002 08 04 889 01- 03- 882 01 03- 865 ++ 05- 828 ++ 04- 811 01 05- 792 03 04- 718 01- 04- 698	01- 07- 641 04- 15- 560 12- 20- 509 16- 26- 333 40- 49- 292 48- 239 55- 219 56- 187 52- 164 53- 144 57- 100 55- 058 55-	239 10750 55- 144 14020 57-
	03 11500	023 023 732	007 11 04 957 07 03 891 04 01 861 07 00 730 00 07- 710 ++ 07- 683 ++ 14- 616 07- 19- 531 14- 27- 512 15-	28- 340 40- 48- 266 53- 243 56- 170 51- 114 57- 100 55- 030 53- Pressure doubtful above 100mb	243 10690 56-
ALDERGROVE 03917	01 00900	023 014 699	998 08 06 971 09 05 855 01 03- 832 ++ 04- 821 04 03- 778 03 06- 760 03- 08- 740 ++ 06- 732 ++ 07- 676	01- 550 11- 23- 522 15- 28- 470 19- 32- 347 ++ 48- 268 51- 198 58- 170 56- 150 58- 099 54- 060 54-	198 12010 58-
	02 42500	024 015 748	999 11 05 913 05 03 898 ++ 02 877 04 01- 850 06 01- 769 ++ 07- 738 ++ 06- 722 02- 08- 681 03- 12- 547	15- 26- 485 19- 31- 340 ++ 50- 263 52- 240 56- 191 56- 174 54- 128 59- 107 60- 098 55- 076 57- 035 54- 030	240 10760 56- 128 14750 59-
AUGHTON 03322	01 00900	023 015 854 729	005 08 01 845 00 02- 812 ++ 13- 785 01- 15- 736 01 06- 600 10- 16- 564 ++ 22- 492 18- 31- 394 29- 41- 357	37- 48- 264 53- 216 57- 198 54- 170 58- 157 55- 131 57- 111 53- 045 53-	216 11390 57- 170 12910 58-
	02 585++	024 017 871 820 711	990 09 02 862 01- 04- 843 01 03- 818 00 06- 767 02- 07- 750 03 06- 742 ++ 08- 724 ++ 06- 671 04- 08- 657	04- 12- 611 08- 14- 595 08- 16- 407 ++ 38- 341 40- 47- 255 55- 227 57- 175 53- 128 58- 090 56- 048 57- 030	227 11070 57- 117 13860 57-
HEMSBY 03496	80 885++	018 017 860	940 05 03 782 06- 14- 770 06- 15- 745 ++ 27- 700 08- 39- 687 07- 29- 625 10- 30- 540 17- 30- 510 19- 36-	400 32- 49- 283 50- 246 53- 230 49- 149 52- 070 52-	246 10450 53-
	01 654++	020 019 898 849	007 09 03 886 01- 03- 864 01 07- 816 ++ 15- 708 07- 24- 678 07- 24- 626 11- 17- 606 11- 23- 585 ++ 30-	530 18- 30- 476 23- 36- 358 40- 50- 260 57- 245 58- 206 48- 144 53- 060 54- Pressure suspect above 150mb	245 10430 58-
CRAWLEY 03774	01 00900	020 002 901 812	000 07 03 997 ++ 01 972 06 01 892 01- 04- 852 02- 05- 848 ++ 03- 823 00 14- 820 ++ 17- 796 01- 21- 769	01- 26- 744 ++ 25- 731 02- 18- 689 ++ 11- 661 07- 11- 624 ++ 12- 615 09- 13- 575 ++ 18- 465 ++ 30- 445 ++	240 10620 56- 33- 341 ++ 46- 316 46- 240 56- 220 52- 172 55- 129 52- 106 54- 030 53-
	02 855++	021 004 897	959 05 01 908 ++ 04- 858 03- 04- 822 05- 06- 804 01- 19- 766 01- 32- 736 ++ 19- 630 07- 19- 596 ++ 27- 516	16- 31- 394 32- 46- 257 56- 235 59- 222 52- 077 52- 041 51-	235 10790 59-
CAMBORNE 03808	02 00900	020 009 689	983 12 08 944 ++ 07 929 09 04 876 05 02 810 ++ 01- 807 01- 02- 782 04 08- 758 04 12- 738 ++ 06- 720 ++	07- 675 00 09- 597 ++ 16- 525 15- 20- 503 ++ 25- 472 20- 27- 458 ++ 30- 400 28- 36- 329 40- 47- 234 58-	198 11980 61-
	02 21502	021 011 702	994 12 07 945 08 05 833 ++ 01- 826 00 03- 798 03 05- 781 02 09- 760 02 05- 731 02 05- 610 09- 13- 574	10- 21- 525 14- 27- 341 39- 50- 234 57- 205 59- 191 55- 139 58- 108 55- 090 56- 042 53- 034 55-	205 11740 59-
VALENTIA 03953	02 885++	022 021 670	021 12 09 837 00 01- 808 06 07- 743 02 09- 694 02 09- 506 14- 26- 450 22- 33- 411 22- 33- 332 37- 47- 239	55- ++ 186 63- 169 57- 121 57- 062 53-	186 12400 63-
	02 785++	023 021 837	001 13 05 871 02 00 837 00 01- 817 02- 10- 806 04- 07- 787 05 06- 762 04- 08- 729 04 10- 706 02 14- 681	01 17- 639 03- 536 11- 480 17- 431 22- 383 30- 352 34- 312 42- 214 60- 155 55- 132 58- 117 55- 079 56- 063	214 11500 60- 132 14700 58-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 864++	029 029 698	929 02 01 906 09 03 891 ++ 02- 789 ++ 14- 700 00 18- 640 06- 23- 475 20- 42- 381 ++ 52- 343 40- 46- 227	62- 213 62- 180 55- 139 52- 104 56- 070 53-	227 11200 62-
	02 855++	030 030 713	958 03 02 937 02 02 932 03 03 920 06 09- 909 09 08- 888 08 11- 847 ++ 07- 820 06 10- 774 ++ 18- 606 07-	27- 567 11- 27- 508 16- 30- 478 ++ 35- 453 22- 31- 391 ++ 37- 337 40- 46- 229 59- 207 59- 190 54- 140 51-	229 11100 59- 092 51- 040 48-
Ocean Weather Station 'J' 52°30'N 20°00'W		022 022 720	862 00 04- 853 04 02- 818 05 09- 644 04- 22- 495 18- 37- 311 44- 224 63- 170 54-		224 11100 63-
		023 023 720	866 00 02- 835 06 09- 692 02- 16- 625 04- 26- 562 10- 31- 403 31- 38- 332 41- 250 56- 220 58- 186 52- 065	51-	220 11300 58-

UPPER WINDS AT STANDARD LEVELS

21 May, 1961

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	202332	T	310 15	+++ ++	330 27	340 29	010 33	020 29	020 26	360 22	020 13	350 41	350 47	360 35	030 26	060 23	060 16	070 15			
	210536	P	320 15	+++ ++	340 22	350 26	350 27	350 22	350 32	360 23	360 13	350 15	360 36	010 29	030 17	070 14	060 17	070 15	080 14		
	211130	T	310 13	+++ ++	340 17	350 17	340 20	340 22	340 22	360 29	340 28	340 34	340 32	350 22	050 12	050 11	080 11	070 09			
	211730	P	340 12	+++ ++	330 18	330 16	330 22	340 24	350 24	320 33	320 36	320 39	320 35	320 16	300 09	060 02	090 11	040 07	110 12		
STORNOWAY 03026	202330	T	000 00	+++ ++	010 07	020 09	010 20	010 23	360 29	010 37	010 47	360 42	350 33	360 20	070 13	080 15	070 20				
	210530	P	300 08	+++ ++	320 12	320 14	330 16	360 19	020 24	020 37	010 44	010 44	360 35	350 17	090 09	080 12					
	211130	T	310 06	+++ ++	320 12	340 15	360 19	360 18	010 18	010 24	360 27	350 29	360 30	340 24	080 02	080 16	110 03	090 13			
	211735	P	330 07	+++ ++	330 15	350 13	350 15	350 20	350 18	340 18	330 24	330 30	320 28	300 16	290 04	090 02	070 12				
SHANWELL 03170	202330	T	020 07	+++ ++	010 15	020 20	030 32	020 33	010 34	010 31	010 38	010 46	360 56	010 42	030 25	060 21	070 17				
	210530	P	230 03	+++ ++	320 08	360 14	010 26	030 31	030 26	020 25	010 36	010 32	010 46	020 37	040 24	060 26	060 12	060 14			
	211130	T	000 00	+++ ++	310 09	020 22	020 24	020 24	020 22	030 22	040 23	040 19	030 32	020 35	040 28	070 18	070 15	080 13	080 11		
	211730	P	080 10	+++ ++	350 03	310 14	350 16	020 21	020 27	010 26	020 34	020 33	010 38	020 25	040 20	070 15	040 11	070 12			
ALDERGROVE 03917	202330	T	010 03	+++ ++	040 05	070 09	030 24	030 24	030 25	030 28	010 29	360 35	360 35	010 28	060 20	060 15	070 13				
	210530	P	020 04	+++ ++	020 08	030 14	040 22	030 25	020 28	020 31	020 39	020 42	020 30	010 20	070 23	070 19	070 12	070 11	080 12	100 12	
	211130	T	330 05	+++ ++	010 09	060 15	050 27	050 28	050 26	030 40	020 52	020 44	010 37	010 26	050 21	080 15	090 14	070 08			
	211730	P	350 14	+++ ++	320 09	010 07	030 13	040 19	040 17	060 20	050 25	040 30	040 32	030 22	050 15	060 13	060 10				
AUGHTON 03322	202330	T	060 05	+++ ++	010 17	010 23	030 21	030 27	020 27	020 34	020 30	010 57	010 55	010 45	030 33	050 14	080 11	070 10			
	210530	P	010 06	+++ ++	020 16	360 25	010 23	010 19	010 23	020 25	360 22	010 34	010 48	020 36	040 32	040 20	050 14	070 11	070 17		
	211130	T	070 06	+++ ++	090 10	060 22	050 25	040 22	040 19	040 16	040 16	010 27	010 34	010 38	030 31	040 17	060 14	090 09	100 16		
	211730	P	290 10	+++ ++	360 05	030 12	040 22	040 29	040 22	040 29	040 25	030 27	030 31	030 32	040 22	050 16	050 12				
HEMSBY 03496	202335	T	360 11	+++ ++	360 21	010 17	020 20	010 34	360 40	010 60	020 73	020 76	360 68	010 46	020 30	040 30					
	210533	P	010 14	+++ ++	010 21	010 19	010 19	020 30	010 44	020 62	020 75	020 86	010 72	010 47	030 29	030 23	040 21				
	211130	T	020 11	+++ ++	020 13	030 14	030 23	030 27	020 44	020 60	030 67	030 66	020 60	020 44	030 30	030 22	090 21	060 15			
	211730	P	020 13	+++ ++	010 15	020 15	030 17	020 27	030 42	020 59	030 66	030 68	030 58	030 40	040 35	040 21	040 10	090 11			
CRAWLEY 03774	202330	T	360 03	+++ ++	360 12	360 24	360 30	360 32	360 35	360 42	360 51	010 57	350 49	010 44	020 37	020 22	060 12	060 10	080 14		
	210530	P	020 06	+++ ++	030 14	030 16	010 21	010 29	010 39	360 46	010 56	010 60	010 58	360 42	030 32	040 19	030 15	070 17	080 17		
	211130	P	350 07	+++ ++	020 13	030 13	030 18	010 26	010 36	010 48	010 49	360 52	010 52	010 44	020 35	040 17	070 10	070 13			
	211730	P	010 04	+++ ++	020 12	030 16	040 19	020 25	020 38	020 48	020 52	020 49	010 49	010 38	030 35	010 16	050 16	080 14	080 15		
CAMBORNE 03808	202330	T	050 04	+++ ++	050 09	020 03	360 11	360 13	350 20	350 26	360 36	360 34	360 34	360 25	020 27	020 11	090 15	090 07	080 11		
	210530	P	100 13	+++ ++	070 06	030 07	020 06	010 08	350 18	360 21	360 26	360 36	360 34	010 25	040 17	050 14	070 16				
	211130	T	090 12	+++ ++	060 09	010 08	040 10	040 08	010 10	360 18	350 17	340 29	350 28	010 31	040 16	050 09	080 12	080 14			
	211730	P	130 06	+++ ++	350 05	020 05	030 11	020 10	040 11	030 11	030 10	350 15	360 27	010 24	040 16	030 10	080 18	070 13			
VALENTIA 03953	210000	T	070 04	070 07	+++ ++	060 09	+++ ++	030 15	+++ ++	020 15	050 10	070 10	+++ ++	080 10	+++ ++	070 10					
	211200	T	050 08	070 09	+++ ++	080 08	+++ ++	080 24	+++ ++	060 21	070 28	050 16	+++ ++	070 12							
Ocean Weather Station 'I' 59°00'N 19°00'W	210000	T	340 06	330 08	330 07	350 10	360 05	060 09	190 03	210 10	210 20	200 22	200 37	200 22	210 06	130 08					
	210600	P	315 10	+++ ++	320 09	330 09	350 10	350 03	180 03	320 04	210 19	240 22	210 27	220 20	210 28	230 21					
	211200	T	340 08	340 08	340 06	010 13	350 06	310 04	300 03	210 07	220 17	250 30	290 32	240 20	210 06	110 06	120 15	130 09			
	211800	P	360 10	+++ ++	320 09	350 05	350 05	330 06	270 04	240 06	250 26	260 26	250 33	250 20	220 08	210 08					
Ocean Weather Station 'J' 52°30'N 20°00'W	202300	T	090 17	090 17	+++ ++	100 16	+++ ++	110 27	+++ ++	120 38	120 32	120 33									
	210600	P	090 10	+++ ++	110 14	110 16	120 16	120 16	120 17	120 20	120 33	120 38	120 40								
	211100	T	070 17	080 20	+++ ++	110 25	+++ ++	110 25	+++ ++	120 30	120 34	140 37	150 23	160 07							
	211800	P	090 10	+++ ++	090 16	090 16	090 16	090 19	100 25	100 26	110 32	120 44	150 56								
LARKHILL 03743																					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	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
Cloud :— Inversion Levels :— <div style="text-align: right;">Isothermal Levels :—</div>														
YYGGgg	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
Cloud :— Inversion Levels :— <div style="text-align: right;">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		

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	09600m 360 24 24900m 070 15 09600/0 14800/2 P21600m 090 08	
STORNOWAY 03026	180mb 070 12 16400m 060 11 13760/2 18900m 090 15 11570/1 14540/9	
SHANWELL 03170	061mb 080 17 174mb 020 30 P25700m 080 14 00720/8 01840/2	
ALDERGROVE 03917	185mb 030 24 13260/2 032mb 070 11 19800m 060 12	
AUGHTON 03322	09440/0 24900m 080 11	010 62 09630m
HEMSBY 03496	073mb 060 11 20300m 060 13 21900m 070 11 11140/1 12020/0	020 78 08050m 020 96 08940m 030 74 08520m 030 74 08440m
CRAWLEY 03774	P25200m 070 14 11420/1 23100m 090 15 11300/1 14700/1 14470/1	010 61 08790m
CAMBORNE 03808	18900m 060 12 037mb 110 11	
VALENTIA 03953	808mb 040 10 743mb 040 14 239mb 100 08 169mb 100 12 121mb 080 16 062mb 060 12 762mb 080 20 639mb 080 19 536mb 070 20 214mb 040 14 155mb 100 12 117mb 100 12	
Ocean Weather Station 'I' 59°00'N 19°00'W	172mb 200 14 118mb 160 11 080mb 120 14 02400/9 269mb 230 23 172mb 240 13 044mb 130 11 06000m 240 16 12600m 250 15 17100m 070 03 03200/7 05830/0	
Ocean Weather Station 'J' 52°30'N 20°00'W	818mb 100 16 644mb 120 30 224mb 120 36 866mb 110 27 625mb 120 26 562mb 120 28 332mb 140 36 220mb 150 13 00300m 080 15 00600m 090 16	
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

Changes in the blocking pattern over the north Atlantic are very slow. Mobility in the upper pattern is mainly around the Arctic Basin and across Greenland. A cold trough persists over Europe and part of it is becoming cut-off as it moves south over Germany and as the ridge over the Norwegian Sea swings northeastwards.

AVERAGE AND EXTREME VALUES 1951-55
MAY

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	22145	-50.1	-46	-55	...	...
60	19500	-50.3	-43	-60	102	2 11
100	16180	-51.4	-44	-62	283	3 13
150	13540	-51.0	-42	-62	288	7 19
200	11680	-53.8	-39	-69	288	10 27
300	9070	-48.8	-37	-56	281	11 36
400	7125	-35.0	-27	-49	282	10 32
500	5530	-23.2	-15	-38	283	8 26
700	2985	-7.0	1	-20	289	4 20
850	1450	0.9	11	-10	310	2 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9 11
60	19480	-52.8	-46	-62	69	1 10
100	16195	-53.8	-44	-61	284	5 14
150	13590	-53.3	-46	-65	284	10 22
200	11750	-55.3	-42	-67	282	15 34
300	9140	-47.7	-38	-56	274	15 45
400	7180	-33.4	-23	-48	270	13 38
500	5580	-21.4	-11	-34	267	11 31
700	3015	-5.3	6	-16	258	7 23
850	1470	3.0	15	-6	254	5 20

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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

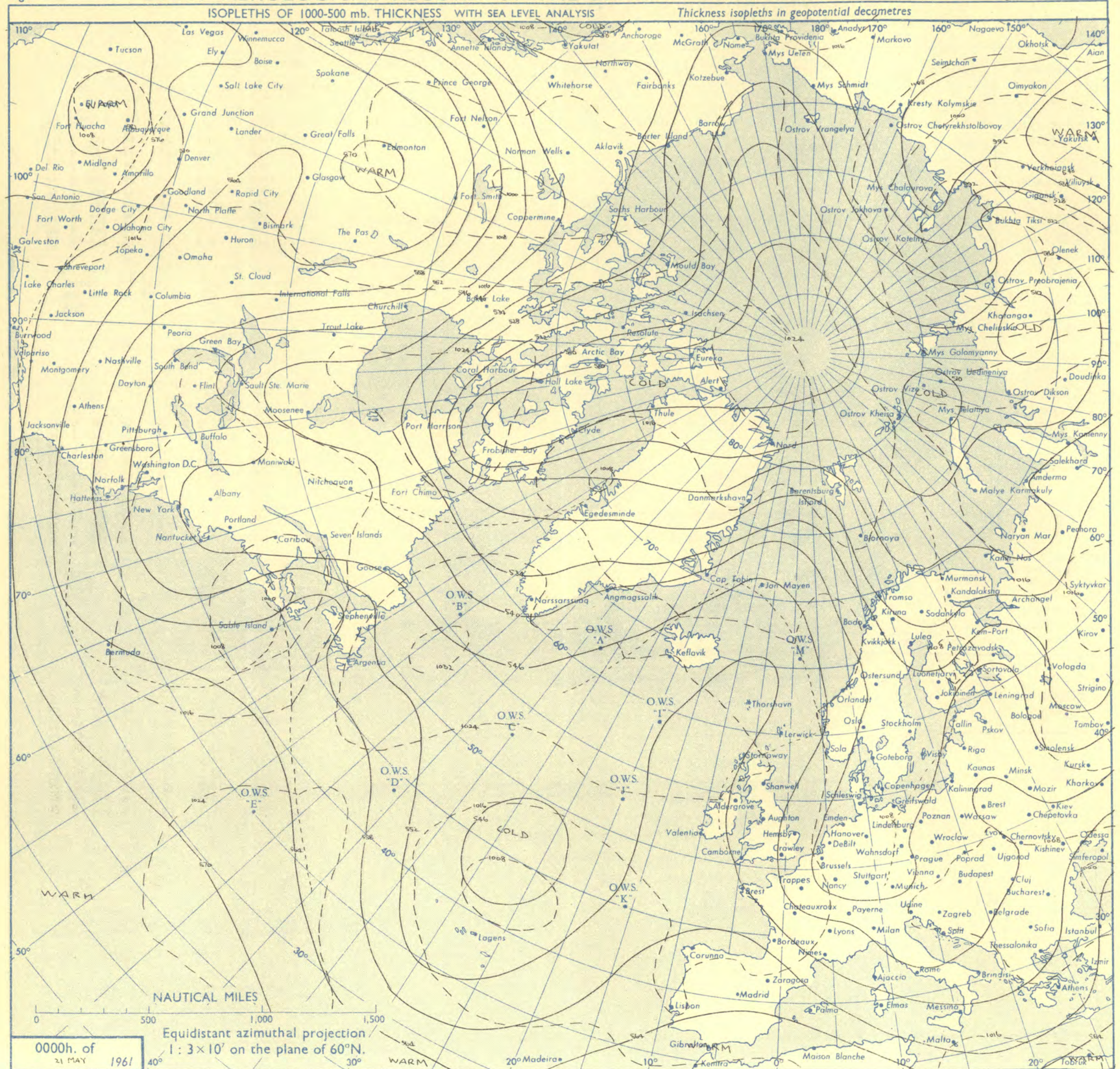
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	...	...	...	...	180	2 8
60	19500	-59.3	-57	-66	270	6 10
100	16315	-60.2	-51	-67	270	24 25
150	13775	-59.1	-49	-71	275	40 43
200	11970	-58.9	-48	-67	275	48 53
300	9355	-43.8	-39	-49	275	42 50
400	7365	-28.2	-23	-38	275	34 40
500	5720	-16.0	-12	-28	275	27 32
700	3095	2.2	9	-9	275	16 23
850	1500	12.2	24	2	275	9 16

Tropo- pause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb.	°C	mb.	mb.	°C	°C
Lower	117	-65.1	...	80	...	-71
	199	-60.9	365	...	-41	...

* 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.

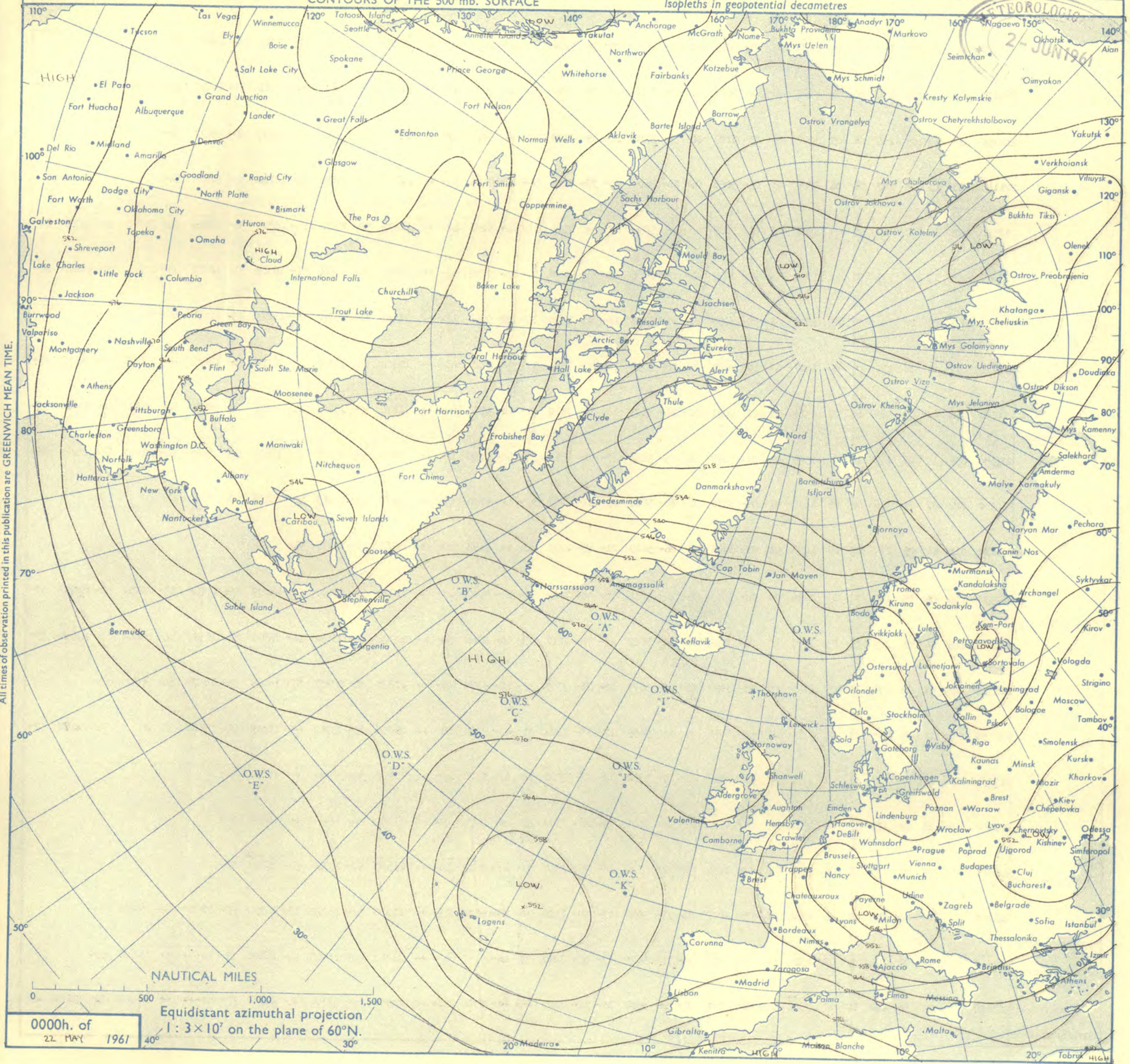
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



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
22 MAY 1961

HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

22 May

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	220017	082 07 05	168 07 04	1484 04 05	3059 00 20	5652 20 36	7276 32 47	9227 48 ++	11835 50	13722 51	16321 56	18601 55		
	221130	082 10 06	154 08 05	1467 02 04	3025 03 15	5616 20 36	7230 31 46	9200 47 ++	11801 55	13678 50	16319 53	18617 54	20780 53	24064 55
STORNOWAY 03026	212355	013 10 05	204 08 05	1528 08 15	3109 00 35	5712 18 49	7339 30 ++	9311 47 ++	11903 57	13750 53	16337 58	18611 54		
	221140	013 13 08	187 08 04	1508 03 03	3056 05 20	5608 23 37	7200 36 47	9125 53 ++	11700 53	13555 54	16142 55	18428 54		
SHANWELL 03170	212330	005 10 07	190 08 05	1516 02 01	3087 00 ++	5696 17 ++	7324 31 42	9296 48 ++	11895 52	13761 53	16345 55	18618 54	20746 55	24033 51
	221130	005 11 07	175 08 04	1493 03 02	3069 01 19	5666 19 35	7286 32 45	9252 47 ++	11854 50	13746 51	16368 54	18679 49	20873 50	24260 46
ALDERGROVE 03917	212330	077 09 06	190 08 05	1526 07 05	3096 01 19	5703 16 36	7330 31 45	9296 48 ++	11881 56	13730 56	16295 55	18566 56	20722 54	
	221130	077 11 06	179 09 04	1507 08 10	3088 00 28	5693 18 42	7325 30 ++	9303 47 ++	11900 56	13766 52	16361 56	18635 54	20835 50	24135 51
AUGHTON 03322	212330	056 10 07	183 10 07	1519 03 02	3081 02 14	5683 18 31	7310 31 44	9278 48 ++	11874 53	13727 54	16303 54	18582 54	20740 54	24026 53
	221130	056 12 08	177 10 06	1508 03 01	3072 00 25	5685 17 42	7311 31 48	9286 46 ++	11898 54	13768 51	16367 56	18645 54	20803 54	24099 55
HEMSBY 03496	212330	012 07 05	174 08 05	1495 01 09	3038 04 30	5616 19 47	7237 32 ++	9206 47 ++	11830 49	13713 51	16339 52	18652 51		
	221130	012 14 09	170 09 02	1489 01 07	3046 03 26	5619 21 45	7223 34 ++	9168 50 ++	11762 51	13637 51				
CRAWLEY 03774	212330	144 06 05	175 07 03	1494 00 08	3033 05 20	5614 18 35	7240 31 45	9209 48 ++	11823 51	13690 53	16299 55	18596 53	20759 54	24047 53
	221130	144 14 03	169 13 03	1501 02 06	3052 03 19	5622 23 38	7217 35 48	9162 50 ++	11778 50	13652 54	16249 54	18537 54	20684 55	23956 55
CAMBORNE 03808	212330	088 07 05	174 10 05	1499 03 03	3069 01 09	5679 18 28	7303 31 40	9272 48 ++	11870 54	13717 55	16289 55	18570 54	20720 55	
	221130	088 13 05	170 11 04	1500 01 03	3053 00 26	5659 17 35	7284 31 43	9249 48 ++	11858 53	13719 53	16315 54	18605 52	20763 54	24072 52
VALENTIA 03953	212330	014 10 08	187 11 09	1531 03 00	3099 01 07	5700 18 28	7320 30 41	9310 44 ++	11950 56	++++ +	16350 54			
	221130	014 16 09	176 13 08	1512 03 01	3076 02 04	5680 18 22	7300 31 40	9270 49 ++	11850 58	++++ +	16250 56			
Ocean Weather Station 'I' 59°00'N 19°00'W	220001	09 07 239	07 06 1566	08 13 3134	02 21 5720	18 36 7350	31 47 9320	48 ++	11900 57	13740 54	16340 52			
	221200	10 06 206	07 06 1534	06 05 3097	02 17 5690	17 30 7320	30 39 9320	43 ++	11930 56	13770 53	16390 52	18700 52	20890 50	
Ocean Weather Station 'J' 52°30'N 20°00'W	212300	11 09 194	09 07 1515	00 03 3078	02 16 5670	18 36 7290	33 46 9230	52 ++	11780 57	13620 54	16200 57	++++ +	20620 53	
	221100	12 08 180	10 07 1506	01 03 3068	01 10 5680	15 31 7320	28 44 9320	44 ++	11940 58	13760 55	16370 53	++++ +	20850 51	24180 49

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 855++	021 011 891 701	000 ++ 03 932 03 02 869 02- 03- 846 05 06- 828 07- 12- 800 06 17- 732 02 13- 713 01 18- 621 ++ 27- 586 ++ 30-	516 18- 34- 382 35- 49- 248 57- 181 47- 120 56- 100 56- 087 54- 060 54-		248	10460	57-
	01 5247+	019 009 880 740	991 07 04 846 02- 04- 833 03 01- 808 ++ 01- 778 ++ 04- 767 ++ 10- 743 ++ 15- 727 00 14- 682 04- 15- 650	04- 19- 513 19- 35- 375 35- 49- 340 41- 230 58- 212 57- 160 48- 103 53- 043 52- 030 55-		230	10930	58-
STORNOWAY 03026	02 855++	025 023 692	952 04 03 893 01 01- 869 08 07- 856 ++ 14- 821 08 25- 678 01- 36- 481 ++ 50- 430 26- ++ 379 34- ++ 255	55- 219 60- 179 53- 132 54- 104 58- 080 54- 060 55-		219	11310	60-
	01 65500	022 021 796	985 05 01 936 01 02- 915 ++ 03- 909 04 01- 890 ++ 01 871 04 02- 802 ++ 04- 771 02- 09- 753 01- 15- 600 ++	29- 496 23- 37- 382 39- 50- 353 44- 247 61- 223 54- 181 52- 112 56- 064 53- 055 50-		247	10360	61-
SHANWELL 03170	02 856++	023 023 698	009 09 06 969 06 04 841 02 01 833 04 03 805 ++ 25- 792 05 ++ 705 01 ++ 493 18- ++ 473 ++ 44- 367 36- 45-	340 40- 49- 275 52- 229 59- 197 51- 160 51- 117 58- 100 55- 083 57- 058 52- 047 55- 030 51-		229	11010	59-
	02 854++	021 021 860 714	012 09 04 942 04 01 860 00 02- 832 07 06- 822 08 09- 740 ++ 21- 658 05- 19- 566 11- 28- 372 36- 48- 268	54- 239 58- 225 57- 183 46- 159 51- 100 54- 087 54- 074 50- 073 48- 064 51- 049 50- 046 47- 040 48- 038 45-		239	10700	58-
ALDERGROVE 03917	02 354++	023 014 712	932 03 02 910 10 03 902 ++ 00 766 03- 13- 664 03- 23- 622 07- 20- 580 ++ 27- 511 15- 35- 362 37- 49- 268	54- 237 59- 206 57- 189 53- 167 53- 144 57- 115 58- 099 55- 042 56-		237	10810	59-
	02 559++	023 012 698	001 09 04 885 02 00 870 07 03- 859 ++ 08- 841 08 12- 754 05 24- 675 02- 30- 461 21- 44- 386 32- 338 40-	242 56- 217 59- 184 51- 164 50- 112 56- 078 56- 075 58- 065 49- 049 50- 039 52- 030 51-		217	11350	59-
AUGHTON 03322	03 7093+	023 016 808 728	998 10 07 976 ++ 05 881 05 03 807 00 01- 800 ++ 00 786 04 02- 768 ++ 11- 757 ++ 08- 622 ++ 21- 561 11-	26- 397 31- 45- 352 39- 50- 249 57- 235 58- 206 53- 147 54- 122 58- 030 53-		235	10840	58-
	02 855++	021 015 803 694	998 10 06 952 07 05 884 04 03 868 04 02 846 03 01- 800 00 02- 789 03 04- 780 ++ 10- 763 03 15- 705 01	24- 540 12- 40- 438 26- 46- 342 40- ++ 257 53- 223 58- 173 50- 102 57- 041 51- 030 55-		223	11200	58-
Pressures doubtful above 150mb.								
HEMSBY 03496	01 14600	021 020 836	018 ++ 04 011 09 06 979 ++ 06 939 ++ 01 901 02 00 860 01 05- 842 ++ 10- 830 ++ 08- 820 01- 10- 802 01-	17- 771 01- 20- 724 ++ 22- 708 04- 30- 508 18- 48- 397 32- 50- 277 51- 232 56- 207 50- 101 52- 060 54-		232	10860	56-
	02 41502	021 019 877 748	000 09 02 990 08 00 870 ++ 02- 866 01- 03- 833 04 13- 783 02 16- 665 06- 33- 517 19- 45- 317 47- 261 56-	229 58- 202 51- 161 50- 120 55-		229	10900	58-
CRAWLEY 03774	02 00900	021 004 868	000 ++ 03 990 07 03 968 ++ 03 940 ++ 01- 888 ++ 02- 868 00 05- 844 ++ 10- 814 01- 10- 741 03- 20- 694	++ 21- 673 08- 19- 660 07- 20- 633 ++ 24- 543 14- 30- 387 32- 46- 268 54- 237 56- 190 50- 136 55- 111 52-		237	10720	56-
	02 32501	020 003 798	980 11 02 878 02 03- 827 ++ 10- 817 01 08- 792 ++ 07- 780 01- 10- 755 00 14- 619 09- 25- 493 24- 39- 384	++ 50- 304 50- 263 55- 179 49- 152 54- 069 54- 030 55-		263	10000	55-
CAMBORNE 03808	02 00900	021 011 717	000 10 05 950 ++ 03 878 01 02- 861 01 02- 848 03 04- 828 ++ 08- 788 04 04- 726 ++ 06- 615 06- 17- 491	19- 29- 343 40- 48- 275 53- 250 56- 229 57- 190 53- 163 53- 133 58- 110 55- 045 54-		250	10450	56-
	03 5161+	020 010 836 710	998 10 03 793 03- 05- 787 02 04- 777 ++ 11- 752 01 13- 740 01 21- 676 01- 25- 534 15- 32- 502 17- 36- 353	39- 50- 293 50- 244 56- 190 51- 126 56- 102 54- 087 55- 072 52- 054 56- 044 51- 030 52-		244	10600	56-
VALENTIA 03953	02 00900	022 021 725	992 11 08 935 10 07 805 04 03- 763 01 05- 723 00 06- 669 04- 08- 639 06- 17- 287 46- 220 56- 183 53- 133	58- 109 58- 060 55-		220	11300	56-
	05 32500	021 020 760	998 13 08 860 02 01- 837 04 02- 790 03 05- 751 01- 10- 715 01- 11- 640 06- 20- 580 09- 25- 518 16- 32- 300	49- 257 56- 222 60- 170 55- 126 56- 118 59- 091 53-		222	11200	60-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 855++	029 029 730	984 06 05 925 03 03 911 05 05 897 ++ 05 872 ++ 08- 833 07 15- 787 04 14- 556 14- 32- 497 18- 36- 343 40-	235 60- 212 60- 181 54- 113 55- 097 52- 074 55-		235	10900	60-
	02 855++	025 025 737	921 02 01 905 05 04 885 ++ 04 865 07 01- 860 ++ 04- 773 ++ 09- 730 00 16- 508 16- 30- 466 22- 35- 417 ++	37- 325 40- 48- 224 59- 203 56- 096 52- 048 50-		224	11200	59-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 59470	023 023 865 735	855 01- 03- 813 04 02- 647 05- 22- 514 16- 35- 370 38- 250 63- 172 53- 104 58-			250	10400	63-
	02 685++	022 022 865	840 01- 03- 805 04 01- 543 10- 26- 415 26- 42- 248 53- 210 58- 112 52- 093 54-			210	11600	58-

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

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 090 06 00450/2 01550/5 12900/5 16750/8 P21600m 100 08 23400m 080 10	
STORNOWAY 03026	15000m 230 11 17200m 330 08 09730/3 10640/1	350 61 10400m
SHANWELL 03170	171mb 010 21 P25200m 070 12 18000m 040 10 P28800m 080 18 22300m 100 15	
ALDERGROVE 03917	157mb 030 12 044mb 080 08 12750/1	
AUGHTON 03322	P22160m 050 18 25800m 040 12 18870/2 21210/9 21640/0 23110/2 24120/1 25760/9 18000m 100 05	
HEMSBY 03496	215mb 030 40 05480/0 128mb 050 25 13200m 080 09	040 65 10410m
CRAWLEY 03774	28800m 110 12 30300m 090 12 28800m 070 21 33000m 110 22 06630/0 23400m 100 16	020 61 09900m
CAMBORNE 03808	P24600m 080 13 22200m 080 12 13630/1	
VALENTIA 03953	763mb 090 20 669mb 090 33 639mb 090 31 220mb 070 20 133mb 090 19 060mb 080 16 00300m 040 05 00600m 090 04 15600m 110 16	
Ocean Weather Station 'I' 59°00'N 19°00'W	080mb 000 00 02400m 300 10 16200m 270 06 05550/1 209mb 350 52 185mb 310 24 052mb 110 03 12900m 330 20 16200m 310 05 07800/3 10710/0 11560/1	360 74 11060m
Ocean Weather Station 'J' 52°30'N 20°00'W	813mb 110 20 647mb 100 22 370mb 120 31 172mb 120 12 00300m 090 14 00600m 110 16 840mb 100 14 805mb 100 16 543mb 080 37 415mb 080 32 248mb 070 25 210mb 080 15 00300m 070 17 00600m 070 20	
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The low near the Azores continues to drift slowly southeastwards. The blocking high to the northeast is weakening and a new high has formed south of Greenland. A cut-off low is moving south over north Italy while the axis of the upstream ridge is now aligned eastwest over the North Sea. There are minor oscillations in the flow over the Norwegian Sea and the next main upstream trough in these high latitudes is moving east over the Davis Strait.

AVERAGE AND EXTREME VALUES 1951-55
MAY

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	22145	-50.1	-46	-55	...	...
60	19500	-50.3	-43	-60	102	2 (10)
100	16180	-51.4	-44	-62	283	3 13
150	13540	-51.0	-42	-62	288	7 19
200	11680	-53.8	-39	-69	288	10 27
300	9070	-48.8	-37	-56	281	11 36
400	7125	-35.0	-27	-49	282	10 32
500	5530	-23.2	-15	-38	283	8 26
700	2985	-7.0	1	-20	289	4 20
850	1450	0.9	11	-10	310	2 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9 11
60	19480	-52.8	-46	-62	69	1 10
100	16195	-53.8	-44	-61	284	5 14
150	13590	-53.3	-46	-65	284	10 22
200	11750	-55.3	-42	-67	282	15 34
300	9140	-47.7	-38	-56	274	15 45
400	7180	-33.4	-23	-48	270	13 38
500	5580	-21.4	-11	-34	267	11 31
700	3015	-5.3	6	-16	258	7 23
850	1470	3.0	15	-6	254	5 20

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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	...	...	...	...	180	2 8
60	19500	-59.3	-57	-66	270	6 10
100	16315	-60.2	-51	-67	270	24 25
150	13775	-59.1	-49	-71	275	40 43
200	11970	-58.9	-48	-67	275	48 53
300	9355	-43.8	-39	-49	275	42 50
400	7365	-28.2	-23	-38	275	34 40
500	5720	-16.0	-12	-28	275	27 32
700	3095	2.2	9	-9	275	16 23
850	1500	12.2	24	2	275	9 16

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb.	°C	mb.	mb.	°C	°C
Lower	117	-65.1	...	80	...	-71
	199	-60.9	365	...	-41	...

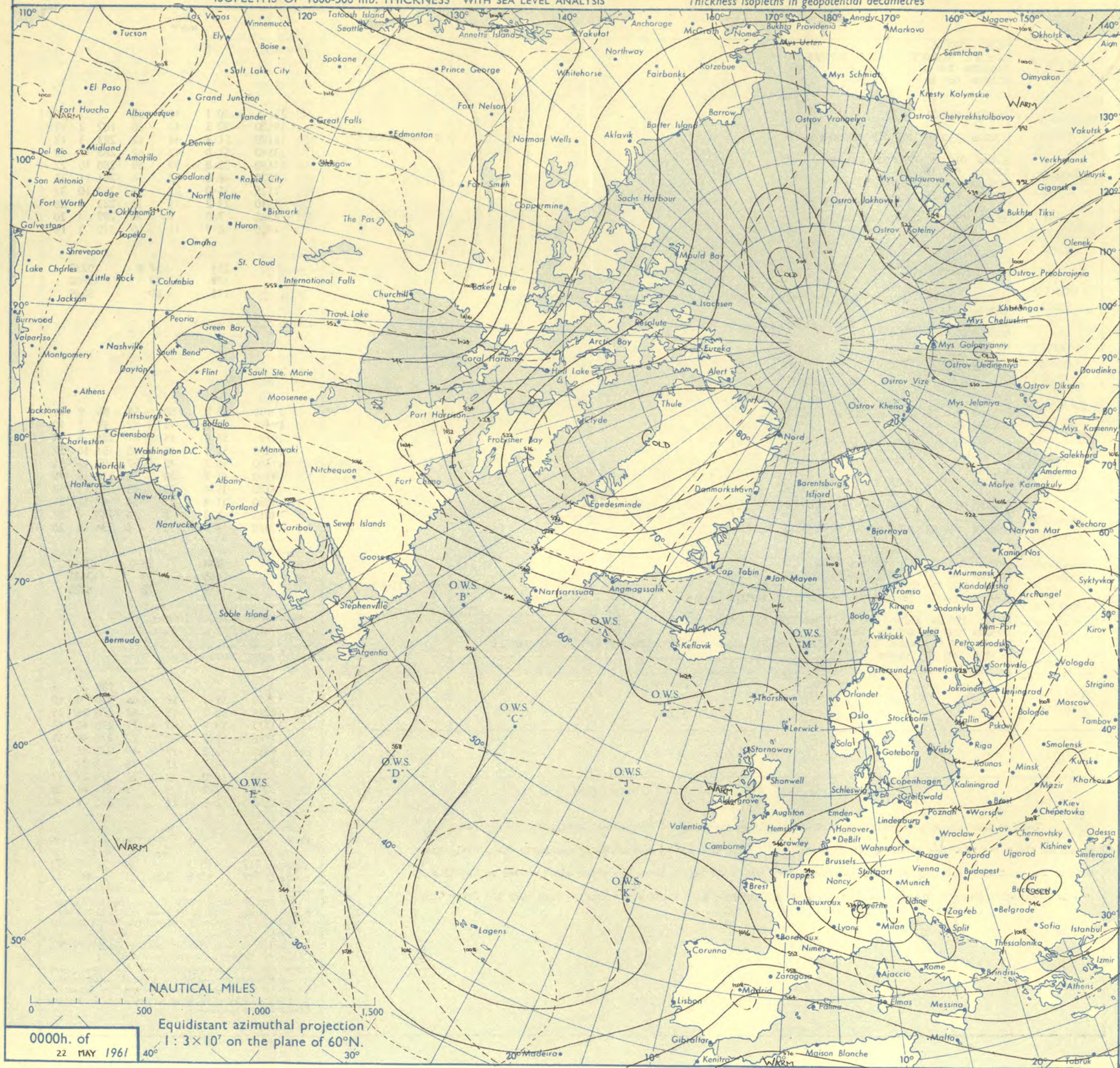
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† 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

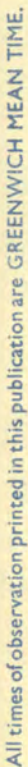
Thickness isopleths in geopotential decametres



Isopleths in geopotential decametres

5 JUN 1967

BAR



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						
LERWICK 03005	230100	082	08	07	097	08	07	1423	03	00	2974	05	20	5546	18	22	7179	28	33	9176	44	++	11796	53	13668	49	16309	52	18622	52										
	231235	082	10	09	063	++	++	1393	05	14	2947	04	07	5530	18	21	7167	28	33	9177	42	++	11807	57	13653	52	16293	50	18618	51	20811	51								
STORNOWAY 03026	222335	013	10	08	159	07	05	1481	03	09	3029	04	20	5603	18	22	7226	30	34	9203	46	++	11786	62	13606	55	16192	55												
	231130	013	13	08	125	10	05	1452	05	10	3011	03	12	5609	16	20	7249	29	32	9249	43	++	11859	60	13671	55	16275	53												
SHANWELL 03170	222330	005	09	07	149	09	03	1482	03	02	3035	04	30	5610	21	37	7221	33	42	9180	48	++	11772	54	13630	53	16216	55	18497	54	20664	53								
	231145	005	16	08	126	14	06	1465	03	02	3032	02	21	5640	16	22	7279	28	33	9279	43	++	11884	60	13712	53	16328	52	18638	51	20831	50	24201	47						
ALDERGROVE 03917	230038	077	09	07	156	09	06	1485	08	11	3060	01	26	5662	18	40	7287	31	48	9267	46	++	11872	55	13733	52														
	231130	077	11	08	154	10	07	1483	06	00	3047	01	20	5658	16	22	7305	27	32	9323	41	++	11956	61	13771	54	16365	56	18649	54	20816	53	24115	52						
AUGHTON 03322	222330	056	07	06	158	09	07	1487	04	00	3054	00	17	5648	19	32	7271	32	41	9238	48	++	11845	51	13727	52	16324	53	18613	53	20789	53	24084	51						
	231130	056	13	06	151	10	04	1475	00	02	3038	02	17	5628	19	29	7253	30	37	9242	45	++	11829	60	13668	53	16254	56	17677	55	20686	54	23979	53						
HEMSBY 03496	222330	012	07	05	154	08	04	1478	00	01	3037	02	16	5617	21	37	7225	33	44	9185	48	++	11796	50	13678	51	16281	54	18573	54										
	231130	012	14	07	147	11	05	1479	02	00	3037	02	12	5617	21	34	7225	33	42	9188	47	++	11810	52	13687	51														
CRAWLEY 03774	222330	144	08	07	156	09	07	1491	02	00	3051	02	19	5634	21	38	7248	32	48	9218	46	++	11825	53	13703	50	16325	54	18623	53	20799	53								
	231130	144	15	06	155	15	06	1496	02	02	3049	02	17	5639	20	36	7251	32	46	9213	48	++	11835	50	13716	52	16321	53	18622	55	20765	54	24040	55						
CAMBORNE 03808	222330	088	08	06	158	10	08	1493	01	01	3054	01	22	5636	20	36	7246	33	46	9206	48	++	11808	52	13679	52	16270	56	18550	54	20704	54	23992	54						
	231130	088	16	08	157	14	05	1493	01	01	3053	02	33	5640	20	40	7247	34	49	9202	49	++	11805	51	13675	54	16255	55	18544	53	20685	54	23950	58						
VALENTIA 03953	222330	014	10	08	168	12	10	1518	05	01	3101	01	17	5720	16	34	7360	29	45	9350	45	++	11960	55	+++++	++	16430	54												
	231130	014	14	10	164	12	08	1500	03	01	3068	01	19	5670	17	33	7310	29	40	9310	43	++	11930	59	+++++	++	16350	58												
Ocean Weather Station 'I' 59°00'N 19°00'W	230000		11	07	151	09	06	1486	05	10	3046	03	16	5650	17	22	7290	28	33	9300	45	++	11880	64	13680	59	16230	56	18510	54										
	231200		10	06	106	09	06	1434	04	09	2996	02	18	5610	15	21	7250	27	31	9250	43	++	11870	63	13670	55	16290	52												
Ocean Weather Station 'J' 52°30'N 20°00'W	222300		12	09	181	10	07	1512	02	02	3077	02	08	5680	16	30	7320	29	42	9300	47	++	11880	59	13710	56	16290	55	+++++	++	20800	54	24090	52						
	231100		12	09	183	10	08	1528	05	00	3095	01	12	5700	18	35	7310	43	50	9260	50	++	11830	56	13670	55	16250	56	+++++	57										

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 655++	012	002	784	995 ++ 06 905 ++ 02 898 03 00 880 ++ 03- 868 05 00 815 01 00 806 ++ 07- 780 00 15- 735 ++ 16- 691 05- 20- 683 06- 16- 678 ++ 20- 608 ++ 28- 586 14- 26- 558 14- 21- 520 ++ 20- 450 23- 26- 400 28- 33- 323 40- 44- 253 54- 221 57- 201 53- 146 49- 100 52- 070 52-	221	11170	57-
	02 1647+	008	998	781	984 08 06 905 03 01 884 06 07- 880 ++ 10- 850 ++ 14- 836 04 14- 778 ++ 07- 756 ++ 06- 725 04- 11- 712 03- 07- 651 ++ 08- 534 ++ 17- 446 ++ 27- 413 ++ 30- 399 28- 33- 312 40- 46- 210 60- 188 54- 100 50- 033 51-	210	11500	60-
STORNOWAY 03026	50 864++	019	018	795	010 08 06 915 02 01 901 04 03 894 ++ 02 885 02 03- 874 03 05- 847 03 10- 795 00 13- 718 ++ 23- 701 04- 20- 634 ++ 26- 584 14- 23- 554 ++ 20- 528 15- 19- 338 40- 45- 227 60- 195 62- 175 55- 119 56- 088 54-	195	11930	62-
	02 755++	015	014	751	003 10 05 889 02 01 855 05 09- 831 ++ 12- 820 ++ 09- 793 ++ 17- 756 ++ 08- 683 05- 14- 669 05- 13- 625 ++ 09- 492 17- 21- 398 29- 32- 314 40- 44- 264 51- 208 61- 188 61- 179 57- 090 52-	208	11590	61-
SHANWELL 03170	02 454++	018	018	788 750	002 ++ 03 945 08 04 866 ++ 03 850 ++ 03 813 ++ 05- 786 ++ 03- 774 01- 06- 750 00 23- 726 ++ 29- 540 16- 37- 435 28- 39- 353 40- 48- 237 60- 216 55- 158 52- 133 56- 100 54- 046 54- Pressure doubtful above 100mb	237 133	10680 14400	60- 56-
	02 6842+	015	014	728	996 13 06 904 06 04 843 03 02 832 ++ 03 822 ++ 08- 815 06 09- 803 ++ 15- 740 ++ 21- 718 01- 16- 653 ++ 29- 620 07- 12- 582 ++ 14- 471 20- 26- 428 ++ 30- 355 34- 39- 321 40- 46- 224 60- 213 61- 154 53- 100 52- 062 52- 059 49- 052 51- 039 46- 037 49- 031 45- 030 47-	213	11460	61-
ALDERGROVE 03917	02 865++	019	010	712	970 ++ 04 895 02 01 875 ++ 09- 868 07 09- 850 08 11- 785 ++ 22- 643 05- 30- 311 44- 228 59- 179 52- 132 54-	228	11040	59-
	20 655++	019	009	719	970 07 05 881 02 00 860 06 02 845 ++ 02- 820 ++ 02- 787 02 05- 770 ++ 13- 745 02 16- 681 03- 23- 600 ++ 26- 570 09- 21- 307 ++ 46- 267 46- 221 58- 194 62- 181 58- 128 53- 110 56- 030 52-	194	12120	62-
AUGHTON 03322	02 00901	019	012	703	994 09 07 914 04 02 881 05 03 811 03 03- 773 04 09- 726 02 15- 526 17- 31- 456 23- 34- 346 40- 49- 262 54- 225 57- 191 49- 155 50- 118 56- 101 53- 045 54- 030 51-	239 118	10720 15270	57- 56-
	02 785++	018	011	852 724	002 11 05 928 04 01 850 00 02- 833 04 02- 816 ++ 08- 760 02 17- 527 ++ 30- 452 24- 31- 335 39- 46- 241 57- 211 63- 159 52- 108 58- 099 55- 030 53-	211	11500	63-
HEMSBY 03496	02 555++	019	017	850 732	010 08 05 980 ++ 03 939 05 00 908 05 01 830 02- 03- 820 04 05- 815 04 12- 785 04 16- 749 01 19- 717 ++ 15- 631 ++ 22- 588 ++ 31- 358 39- 50- 242 57- 218 55- 195 48- 117 55- 096 53- 068 54-	242	10570	57-
	02 785++	018	016	831 752	004 11 05 925 06 03 826 00 02- 816 03 01- 802 03 05- 788 03 05- 727 02 08- 708 02- 13- 698 02- 12- 630 07- 23- 521 19- 32- 438 28- 39- 408 32- 41- 350 40- 49- 290 48- 232 56- 185 49- 130 53-	232	10880	56-
CRAWLEY 03774	02 757++	019	001	827 729	998 11 06 825 00 01- 814 03 04- 793 03 13- 692 02- 19- 515 19- 36- 377 ++ 50- 339 41- 249 55- 232 57- 220 57- 184 49- 097 54- 059 52- 040 55- Pressure doubtful above 200mb	232	10900	57-
	02 685++	018	001	826 734	962 11 04 779 03- 05- 774 01 05- 766 ++ 10- 754 01 13- 730 ++ 18- 578 11- 28- 431 29- 43- 403 32- 46- 314 ++ 48- 276 52- 244 55- 177 48- 147 53- 107 55- 096 52- 055 57- 052 53- 030 55-	244 147	10550 13860	55- 53-
CAMBORNE 03808	02 15630	019	009	718	997 11 09 970 ++ 05 931 08 05 835 00 02- 817 03 09- 796 02 13- 762 03 17- 692 02- 23- 554 15- 36- 368 37- 50- 301 48- 249 57- 229 57- 185 50- 120 57- 067 54- 030 54-	249 210	10400 15110	57- 57-
	02 32500	019	008	822 724	992 12 03 921 07 04 857 02 00 816 00 01- 792 03 18- 774 03 22- 698 02- 33- 554 14- 38- 418 32- 48- 269 55- 247 56- 228 57- 195 50- 168 51- 134 57- 070 53- 060 58- 055 54- 042 53- 030 58-	247 134 060	10460 14390 19520	56- 57- 58-
VALENTIA 03953	03 35600	020	019	685	990 12 10 936 10 04 821 04 00 783 08 01- 736 04 14- 620 05- 13- 573 08- 16- 273 51- 239 57- 211 58- 184 50- 088 56-	211	16500	58-
	02 12501	019	018	710	990 10 07 895 06 01 824 01 02- 803 05 09- 773 04 17- 661 05- 22- 569 10- 27- 417 26- 38- 211 60- 171 54- 130 54- 095 59- 079 55- 030 57-	211	11600	60-
Ocean Weather Station 'I' 59°00'N 19°00'W	03 25674	018	018	745	941 05 03 920 ++ 07- 913 06 08- 835 04 12- 745 00 20- 625 06- 13- 581 09- 13- 474 19- 25- 382 30- 35- 323 40- 46- 203 66- 170 58- 140 60- 084 54- 053 54-	203	11800	64-
	02 31501	013	013	734	932 ++ 02 919 02 01- 903 05 00 842 04 11- 781 02 15- 657 04- 23- 621 06 19- 598 ++ 14- 563 ++ 15- 485 17- 25- 370 ++ 35- 318 40- 44- 199 63- 138 53- 080 52-	199	11900	63-
Ocean Weather Station 'J' 52°30'N 20°00'W	03 25500	022	022	740	908 02 02 893 04 02 828 04 03- 772 02 03- 738 00 04- 587 08- 21- 465 20- 34- 262 54- 212 60- 170 56- 055 54-	212	11500	60-
	02 8087+	021	021	730	882 00 01- 845 05 00 565 10- 25- 405 32- 49- 332 44- 261 60- 171 54- 070 57-	261	10200	60-

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	222330	P	280 15	+++ ++	300 25	300 28	300 28	290 21	280 34	290 34	320 43	330 69	340 74	310 33	290 18	290 09	270 05	030 06	100 16			
	230530	P	250 18	+++ ++	280 30	280 30	280 28	280 28	290 38	300 45	310 49	320 57	320 66	320 33	300 20	280 12	350 04					
	231139	P	230 31	+++ ++	260 34	260 31	280 39	280 39	280 39	280 38	290 39	290 44	300 53	300 28	290 14	280 10	330 02					
	231730	P	240 26	+++ ++	260 42	270 43	270 46	260 49	270 45	280 51	280 55	280 57	280 60	280 45	260 28	280 17						
STORNOWAY 03026	222335	T	270 08	+++ ++	290 17	300 16	300 18	300 22	310 29	330 34	340 37	360 48	350 52	340 36	310 15	310 10	050 06	070 06				
	230530	P	260 19	+++ ++	270 19	270 20	280 21	290 27	300 28	300 31	300 34	310 33	320 30	330 30	300 15	310 05						280 12
	231130	T	260 20	+++ ++	260 23	270 22	280 24	300 29	290 38	300 32	300 31	300 28	300 27	320 25	280 12	290 06						280 07
	231730	P	260 22	+++ ++	260 28	270 33	270 35	270 36	280 38	290 43	280 38	290 29	270 27	270 27	280 22	280 07						
SHANWELL 03170	222330	T	000 00	+++ ++	300 06	330 11	320 13	310 13	310 18	320 20	330 27	010 49	020 52	340 21	280 13	050 06	P360 04	060 05	100 10	P130 10		
	230530	P	000 00	+++ ++	280 07	280 10	300 13	310 15	320 20	340 22	360 32	010 39	020 49	360 30	280 09	240 03	070 09					
	231145	T	250 10	+++ ++	270 12	270 16	290 15	290 16	310 20	310 18	320 20	330 25	340 19	010 21	280 10	280 05	040 03	100 06				080 08
	231730	P	260 13	+++ ++	280 18	270 16	280 18	280 21	310 24	310 26	290 17	310 19	320 14	320 09	280 12	280 11	060 07					
ALDERGROVE 03917	222330	P	320 05	+++ ++	010 06	010 07	350 09	330 13	350 12	330 13	340 20	020 36	040 51	010 20	320 07	010 06	080 06	080 07	070 13			
	230530	P	330 02	+++ ++	340 03	020 07	010 07	350 10	330 13	350 15	030 27	040 35	040 49	030 27	320 08	030 03	040 06	090 09	030 12			
	231130	T	310 04	+++ ++	350 05	330 06	320 07	320 08	340 08	360 13	010 19	020 19	040 22	050 25	330 06	200 03	P120 04	080 05	130 16			
	231730	P	240 05	+++ ++	300 10	280 12	270 12	300 10	310 09	320 12	350 10	360 15	010 10	060 08	260 09	280 05	150 03	090 08	060 06			
AUGHTON 03322	222330	T	000 00	+++ ++	270 13	240 09	350 09	360 09	360 11	360 11	010 22	010 23	010 20	020 17	040 14	040 10	110 10	040 07	090 10	P050 09		
	230530	P	000 00	+++ ++	290 08	280 06	360 05	330 07	340 14	340 17	360 18	040 44	050 56	020 18	340 09	070 08	010 05	1100 10				
	231130	T	240 07	+++ ++	280 05	280 04	310 04	330 05	360 10	010 14	040 30	050 41	050 45	050 32	300 06	250 01	150 06	110 06	100 12			
	231730	P	280 10	+++ ++	260 07	230 07	290 07	310 07	350 10	020 14	040 15	050 24	050 30	050 16	280 06	350 04						
HEMSBY 03496	222330	T	090 02	+++ ++	350 17	330 22	310 08	290 07	010 11	010 14	010 16	030 24	030 24	040 21	060 16	070 11	040 04	080 12				
	230530	P	000 00	+++ ++	320 10	340 13	010 10	350 08	350 11	360 10	010 18	020 26	030 28	040 18	060 19	070 10						
	231130	T	080 08	+++ ++	250 10	330 17	030 11	020 09	350 05	020 10	020 18	050 44	050 50	040 24	060 14	040 17						
	231730	P	150 10	+++ ++	280 09	290 13	350 06	330 03	340 07	360 06	050 24	060 44	050 52	040 18	040 17							
CRAWLEY 03774	222330	T	000 00	+++ ++	160 03	070 03	340 06	280 05	020 05	040 10	040 15	040 28	050 28	050 26	P050 17	070 10	090 09	080 10	090 12			
	230530	P	000 00	+++ ++	030 07	340 08	330 08	310 09	340 12	010 11	010 14	040 28	040 31	050 24	060 20	050 10	000 00					
	231113	P	000 00	+++ ++	270 06	300 07	310 10	300 07	360 09	010 11	040 25	040 26	050 31	060 21	050 16	090 06	120 13					080 08
	231730	P	240 05	+++ ++	330 07	330 06	330 05	310 08	300 06	020 11	050 19	060 35	060 48	050 16	050 09	070 08						
CAMBORNE 03808	222330	T	000 00	+++ ++	060 08	060 08	090 07	100 06	050 06	060 17	060 19	050 35	040 39	040 27	060 17	060 11	060 07	110 16	070 12			
	230530	P	000 00	+++ ++	090 04	090 11	080 04	350 04	050 04	050 10	050 24	050 28	050 33	050 21	060 18	060 08	080 07	090 11				
	231130	T	330 07	+++ ++	070 02	110 06	260 05	300 03	040 04	050 12	060 22	060 22	060 26	070 21	080 15	110 06	100 08	100 12				
	231730	P	350 05	+++ ++	010 03	090 02	300 04	300 07	030 04	040 04	060 13	080 34	080 42	080 14	090 12	100 03	180 04					
VALENTIA 03953	222300	T	000 00	010 02	+++ ++	020 03	+++ ++	050 13	+++ ++	040 18	020 25	020 23	+++ ++	080 41	+++ ++	120 06	+++ ++	+++ ++	120 10			
	231130	T	280 07	280 06	+++ ++	300 04	+++ ++	030 04	+++ ++	060 12	060 23	070 43										
Ocean Weather Station 'I' 59°00'N 19°00'W	230000	T	250 28	+++ ++	270 28	280 24	270 26	280 32	280 39	280 39	290 38	300 37	310 33	310 33	320 18	350 09						
	230600	P	270 30	+++ ++	270 38	270 35	270 30	280 34	280 42	270 45	270 53	300 36	280 44	290 40	280 10	280 06						
	231200	T	270 30	+++ ++	280 35	280 39	280 41	280 40	280 48	270 50	270 40	280 42	280 40	280 30	280 21	280 07						
	231700	P	315 20	+++ ++	300 30	290 36	290 37	280 42	280 48	280 52	280 52	270 59	270 55	250 48	250 26							
Ocean Weather Station 'J' 52°30'N 20°00'W	222300	T	060 12	060 12	+++ ++	120 11	+++ ++	110 18	+++ ++	090 20	080 18	070 24	+++ ++	070 26	070 26							
	230600	P	045 10	+++ ++	090 09	120 09	140 10	120 10	100 07	080 13	080 12	080 29	080 40	080 40								
	231200	P	030 03	+++ ++	060 08	080 08	000 00	000 00	180 06	030 08	020 10	060 16	080 25	100 38	110 48							
	231800	P	045 05	+++ ++	360 13	330 13	260 10	160 07	110 11	070 24	050 06	070 26	090 23	100 38	100 28							
LARKHILL 03743	230630	P	160 02	+++ ++	050 03	040 05	330 07	310 07	350 10	030 16	030 25	040 31	040 35	050 22	060 21	060 16	050 01					
	231030	P	280 02	+++ ++	260 05	030 03	290 09	330 04	350 12	020 14	040 25	030 22	050 27	050 18	070 21	100 08	100 11					

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
231151	65.7°N 10.5°W	989 982 900	061 05 02	280 03 04	765 00 06	1219 03 09	1695 08 12	12 16	2716 16 27	20 24	3859 26 29	29 42	5166 30 43	
Cloud :— 2/8 cb. 2500 to 15000 ft. 5/8 Ci at 25000 ft. 1/8 Sc. 2500 to 3500 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	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C
231307	65.5°N 01.0°W	993 985 899	061 05 03	058 03 00	799 00 03	1253 02 02	1737 04 04	05 29	2780 09 16	13 16	3956 15 26	19 42	5313 23 59	
Cloud :— 2/8 St. 1000 to 1200ft. 1/8 Cu. 2000 to 8000 ft. 7/8 Sc. 3400 to 4500 ft. 7/8 Sc. 6000 to 7000 ft. 1/8 Ac. at 11000 ft. 1/8 Ci. 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/-. 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	08290/0 10560/1 11100/1 11850/1 15000/5 17400/2 21180/2 20100m 090 12 11800/1 17700m 310 08	340 88 10360m 320 67 10180m 280 63 08000m
STORNOWAY 03026	21200m 050 06 12280/1 17400/2 16700m 280 07	
SHANWELL 03170	338mb 350 34 219mb 360 31 P21900m 090 08 20000m 060 09 11010/1 11880/1 171mb 310 09 P28500m 060 18 11650/5	020 72 09700m
ALDERGROVE 03917	11350m 030 33 25400m 110 10 08450/3 09000/3 09500/0 11050/1 250000m 070 22 05380/3 12200/7 15500/4 18300/3 174mb 040 18 24600m 090 11 12610/8 17060/5 18180/5	
AUGHTON 03322	21600m 120 09 08200/0 09080/0 11330/1 11690/1 170mb 040 11 17700m 200 06 12090/7	
HEMSBY 03496	075mb 080 11 343mb 040 30 10800m 050 46 15000m 050 08 11340/1	
CRAWLEY 03774	P19700m 100 04 24900m 080 16 14600/2 18380/2 09810/0 11380/1	
CAMBORNE 03808	21300m 080 15 039mb 140 16 08285m 070 23 11590m 080 22 20400m 070 12 08770/0 11590/1	
VALENTIA 03953	936mb 010 02 821mb 03 05 783mb 050 11 736mb 060 13 620mb 050 17 239mb 020 21 895mb 270 03 821mb 330 04 773mb 010 03 211mb 070 50 171mb 070 20 130mb 100 05	
Ocean Weather Station 'I' 59°00'N 19°00'W	060mb 010 03 13200m 310 25 08700/2 09890/5 12060/2 13720/7 085mb 000 00 13200m 250 34 15300m 280 15 12810/1 14500/4	270 63 09000m
Ocean Weather Station 'J' 52°30'N 20°00'W	908mb 040 08 828mb 130 16 772mb 120 19 738mb 120 16 587mb 100 16 262mb 070 24 00300m 050 07 00600m 090 09 13200m 080 34 00300m 040 05 00600m 050 05 00300m 030 06 00600m 010 10 01900/5	
LARKHILL 03743	16750/4	

NOTES ON THE AEROLOGICAL SITUATION

Over the European and Atlantic sectors the changes remain slow. Further north, however, where the long-lived cold centre from near Hudson Bay has now moved to Greenland, a large trough is developing which threatens to break down the anticyclonic regime over the British Isles.

AVERAGE AND EXTREME VALUES 1951-55
MAY

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	22145	-50.1	-46	-55	...	(10)
60	19500	-50.3	-43	-60	102	2
100	16180	-51.4	-44	-62	283	3
150	13540	-51.0	-42	-62	288	7
200	11680	-53.8	-39	-69	288	10
300	9070	-48.8	-37	-56	281	11
400	7125	-35.0	-27	-49	282	10
500	5530	-23.2	-15	-38	283	8
700	2985	-7.0	1	-20	289	4
850	1450	0.9	11	-10	310	2

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9
60	19480	-52.8	-46	-62	69	1
100	16195	-53.8	-44	-61	284	5
150	13590	-53.3	-46	-65	284	10
200	11750	-55.3	-42	-67	282	15
300	9140	-47.7	-38	-56	274	15
400	7180	-33.4	-23	-48	270	13
500	5580	-21.4	-11	-34	267	11
700	3015	-5.3	6	-16	258	7
850	1470	3.0	15	-6	254	5

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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	...	...	...	...	180	2
60	19500	-59.3	-57	-66	270	6
100	16315	-60.2	-51	-67	270	24
150	13775	-59.1	-49	-71	275	40
200	11970	-58.9	-48	-67	275	48
300	9355	-43.8	-39	-49	275	42
400	7365	-28.2	-23	-38	275	34
500	5720	-16.0	-12	-28	275	27
700	3095	2.2	9	-9	275	16
850	1500	12.2	24	2	275	9

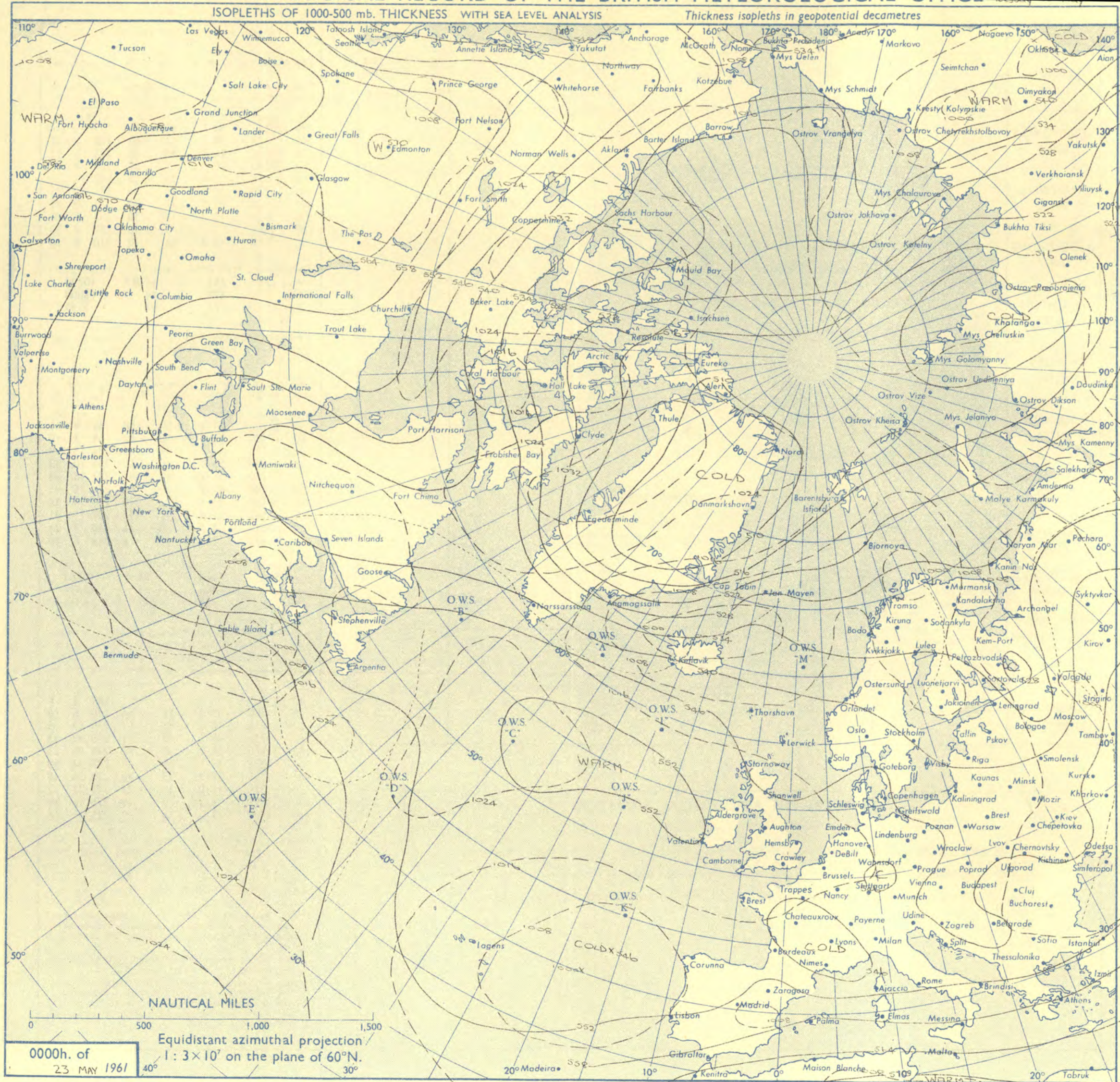
Tropo- pause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	117	-65.1	mb.	80	...	-71
Lower	199	-60.9	365	...	-41	...

* 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.

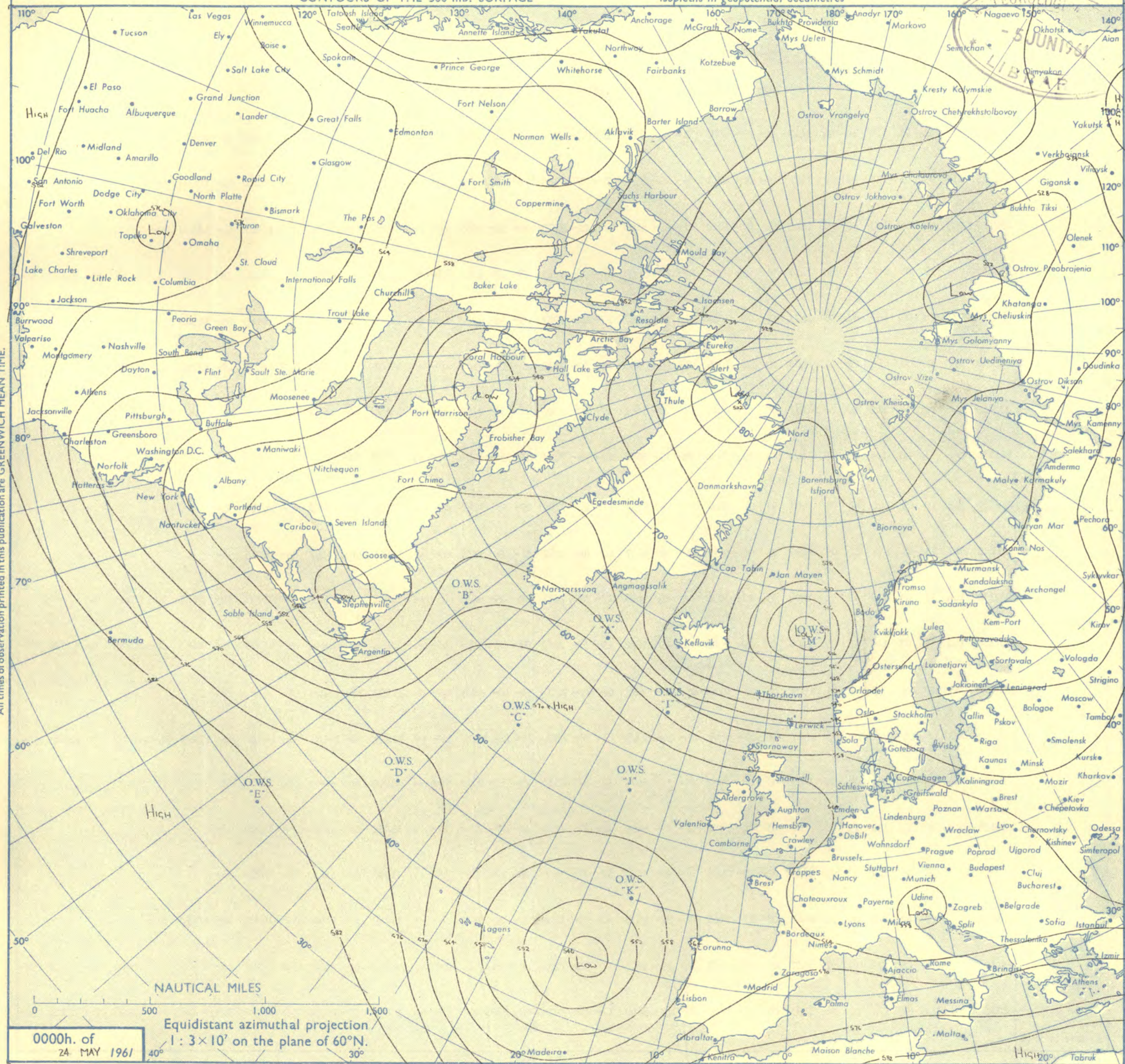
DAILY METEOROLOGICAL RECORD OF THE BRITISH METEOROLOGICAL STATION



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
24 MAY 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	232330	082	08	07	020	++	++	1342	00	06-	2882	01-	21-	5500	14-	33-	7161	26-	36-	9191	39-	50-	11819	58-	13681	53-	16306	52-												
	241130	082	10	04	042	++	++	1355	03-	07-	2867	12-	22-	5426	18-	38-	7061	28-	44-	9061	43-	++	11722	50-	13610	49-	16276	50-	18614	49-	20811	52-								
STORNOWAY 03026	232330	013	11	05	100	10	04	1423	02-	05-	2980	01-	32-	5593	16-	27-	7238	27-	41-	9246	43-	++	11852	61-	13670	54-	16292	51-	18615	51-	20805	50-								
	241125	013	09	03	115	07	02	1422	05-	08-	2941	04-	29-	5535	18-	27-	7165	29-	43-	9159	44-	++	11775	58-	13615	53-	16241	52-	18550	51-										
SHANWELL 03170	232330	005	10	06	108	10	06	1445	09	08-	3018	01-	23-	5628	16-	22-	7270	28-	31-	9265	44-	++	11865	64-	13667	55-	16263	54-	18558	54-										
	241130	005	17	03	105	13	00	1437	01-	05-	2992	02-	22-	5600	16-	28-	7243	28-	37-	9243	45-	++	11833	61-	13661	53-	16276	52-	18594	51-	20782	51-	24127	50-						
ALDERGROVE 03917	232330	077	10	07	147	09	06	1471	01	00	3037	01-	16-	5647	17-	22-	7287	29-	34-	9282	44-	++	11882	53-	13681	56-	16265	55-	18548	54-										
	241130	077	11	07	140	10	07	1460	00	01-	3015	01-	15-	5630	16-	22-	7272	28-	33-	9262	46-	++	11855	54-	13720	52-	16361	49-	18706	48-	20946	44-								
AUGHTON 03322	232330	056	07	06	143	09	06	1473	06	02-	3046	00	20-	5661	17-	20-	7303	28-	33-	9299	44-	++	11892	60-	13722	54-														
	241130	056	14	06	138	13	05	1471	01	01-	3040	01-	19-	5652	17-	22-	7291	29-	36-	9284	44-	++	11879	58-																
HEMSBY 03496	232330	012	10	09	141	11	08	1485	03	01	3048	00	19-	5653	17-	29-	7291	29-	38-	9281	45-	++	11877	56-	13729	53-	16317	54-												
	241130	012	13	08	134	11	05	1474	03	00	3035	01-	36-	5637	18-	45-	7262	31-	49-	9232	47-	++	11804	58-	13647	56-	16216	56-												
CRAWLEY 03774	232330	144	11	09	148	12	10	1494	03	02-	3051	00	25-	5649	19-	35-	7271	30-	45-	9255	45-	++	11872	54-	13735	52-	16327	54-	18615	54-	20765	55-								
	241130	144	16	07	146	16	07	1488	02	02-	3046	01-	19-	5642	19-	37-	7263	31-	48-	9239	46-	++	11843	53-	13689	55-	16273	55-	18563	54-	20709	55-	23994	53-						
CAMBORNE 03808	232330	088	09	08	157	12	09	1503	03	01-	3066	01-	28-	5661	19-	37-	7276	33-	40-	9244	46-	++	11859	55-	13720	53-														
	241130	088	16	06	146	15	05	1487	03	02-	3056	01-	22-	5648	19-	38-	7264	32-	48-	9225	48-	++	11829	53-	13688	54-	16279	54-	18565	54-	20713	55-	24002	52-						
VALENTIA 03953	232330	014	09	07	156	09	07	1495	03	00	3062	01-	13-	5670	17-	27-	7310	28-	33-	9310	44-	++	11900	60-	++++	++	16330	54-												
	241130	014	16	11	150	13	08	1488	03	04-	3054	02-	15-	5650	18-	31-	7280	30-	37-	9260	47-	++	11850	53-	++++	++	16320	53-												
Ocean Weather Station 'I' 59°00'N 19°00'W	240001		08	03	127	07	02	1433	05-	09-	2969	04-	28-	5570	17-	27-	7200	28-	37-	920`	45-	++	11790	62-	13610	56-	16210	53-												
	241200		07	02-	171	05	03-	1465	08-	13-	2965	08-	22-	5530	20-	29-	7150	31-	35-	9120	47-	++	11740	51-	13600	52-	16250	49-	18570	52-										
Ocean Weather Station 'J' 52°30'N 20°00'W	232300		111	08	176	10	07	1501	02	04-	3061	03-	19-	5660	17-	35-	7290	28-	38-	9280	45-	++	11880	60-	13700	54-	16300	54-	++++	++	20740	55-	24000	55-						
	241100		11	07	171	09	06	1493	00	01-	3047	02-	19-	5640	17-	41-	7270	28-	36-	9260	45-	++	11850	57-	13710	53-	16310	53-	++++	++	20790	51-	24120	50-						

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	80 52400	002 993 857	918 03 02- 810 ++ 05- 782 ++ 07- 771 05- 10- 731 00 16- 724 ++ 20- 634 04- 25- 511 14- 34- 480 14- 32- 356 32- 41- 335 33- 42- 300 39- 50- 254 49- 203 58- 122 51- 117 53- 100 52- 082 52-	203 11760 58-				
	02 784++	005 995 898	987 07 02 917 01 03- 821 05- 09- 804 05- 11- 644 16- 28- 590 10- 29- 428 25- 44- 340 37- 50- 235 52- 223 53- 163 48- 133 51- 119 46- 103 50- 100 50- 072 49- 045 52-	223 11010 53- 103 16080 50-				
STORNOWAY 03026	02 756++	012 011 871 716	840 ++ 05- 836 03- 08- 826 01 10- 820 ++ 18- 801 02 22- 750 01 29- 678 02- 30- 594 ++ 33- 562 ++ 20- 544 ++ 23- 521 ++ 22- 498 16- 27- 477 19- 27- 455 20- 32- 345 35- 50- 276 48- 206 62- 141 52- 092 50- 043 50-	206 11660 62-				
	25 5256+	014 013 915	995 07 01 872 04- 06- 794 ++ 11- 789 09- 12- 750 05- 25- 731 03- 25- 670 05- 30- 634 ++ 25- 600 ++ 30- 564 ++ 20- 543 13- 21- 469 22- 32- 459 22- 33- 404 ++ 43- 342 37- 49- 246 54- 199 58- 190 55- 109 51- 070 51- Temperatures doubtful between 246mb and 199mb.	199 11810 58-				
SHANWELL 03170	02 45600	013 013 718	007 11 07 897 03 01 882 09 02 879 ++ 05- 855 09 07- 777 04 16- 680 02- 25- 619 ++ 16- 553 ++ 16- 528 13- 20- 418 25- 28- 327 40- 43- 198 64- 150 55- 100 54- 086 52- 064 54-	198 11920 64-				
	02 65500	012 012 856 736	000 13 00 815 03- 05- 804 03 04- 788 03 13- 650 ++ 26- 609 07- 26- 578 ++ 23- 512 ++ 28- 477 ++ 28- 454 21- 32- 419 ++ 35- 323 40- 47- 251 55- 212 63- 204 63- 195 59- 153 53- 100 52- 040 50- 033 47- 030 50-	212 11500 63-				
ALDERGROVE 03917	20 855++	018 008 718	916 03 02 847 01 00 825 06 06- 820 ++ 12- 810 ++ 07- 792 ++ 05- 776 02 08- 739 01 14- 704 ++ 15- 672 05- 20- 641 04- 24- 518 15- 21- 473 19- 24- 326 40- 45- 258 52- 204 63- 190 63- 154 56- 063 54-	204 11720 63-				
	02 354++	017 007 854 735	928 03 02 840 01- 02- 825 ++ 01- 815 ++ 17- 786 02 13- 738 ++ 17- 708 ++ 13- 686 02- 25- 631 06- 28- 625 ++ 39- 607 06- 30- 508 16- 22- 489 17- 22- 374 32- 37- 331 ++ 45- 255 56- 223 61- 212 56- 187 52- 067 48- 045 43-	223 11180 61-				
AUGHTON 03322	02 30932	018 011 699	007 ++ 04 998 09 06 883 02 01 880 03 02 865 07 00 860 ++ 03- 821 ++ 02- 788 ++ 13- 720 01 19- 638 04- 27- 622 ++ 15- 530 ++ 17- 442 22- 26- 401 ++ 32- 350 36- 40- 326 40- 43- 213 63- 158 53- 107 56-	213 11480 63-				
	02 785++	017 010 716	918 05 03 898 ++ 02 842 01 00 829 07 08- 798 ++ 15- 711 ++ 16- 657 04- 23- 615 05- 23- 592 07- 18- 528 14- 20- 481 ++ 23- 438 23- 32- 328 40- 45- 216 61- 172 51-	216 11400 61-				
HEMSBY 03496	02 6093+	017 015 700	983 13 09 814 01 01- 801 04 01- 737 00 09- 708 00 19- 678 02- 23- 552 12- 31- 508 ++ 29- 418 26- 35- 328 40- 47- 230 60- 218 60- 169 51- 119 56- 097 54-	230 11000 60-				
	03 754++	016 015 814 708	995 10 04 975 11 05 808 01- 03- 798 03- 15- 728 01 31- 520 16- 47- 375 35- 50- 234 61- 212 61- 188 54- 169 52- 141 57- 097 56- 087 53- 073 56-	234 10840 61- 141 14040 57-				
CRAWLEY 03774	02 556++	018 001 817 707	992 13 08 990 ++ 07 968 12 07 941 ++ 06 923 ++ 01 896 ++ 00 789 02- 04- 773 03 08- 769 ++ 13- 704 00 24- 564 ++ 37- 474 ++ 37- 408 29- 44- 364 ++ 49- 239 56- 218 57- 192 52- 155 51- 137 55- 040 53-	239 10730 56- 137 14310 55-				
	02 785++	017 000 829 722	995 14 05 921 07 02 841 ++ 03- 823 00 02- 800 01- 02- 786 03 03- 776 04 06- 700 ++ 19- 555 13- 32- 381 ++ 50- 245 57- 216 57- 188 52- 128 56- 069 53- 060 56- 030 53-	245 10550 57-				
CAMBORNE 03808	02 10930	019 008 714	000 12 09 976 12 02 966 12 02 935 ++ 00 865 ++ 01 818 00 07- 813 ++ 05- 806 ++ 15- 800 04 15- 782 ++ 23- 764 ++ 16- 734 01 21- 661 04- 34- 538 15- 35- 479 ++ 40- 438 ++ 35- 399 33- 40- 345 40- 45- 227 57- 185 51- 117 57- 103 56-	227 11060 51-				
	02 42600	017 007 720	990 13 03 855 03 00 822 07 09- 702 01- 22- 567 12- 32- 383 35- 50- 325 44- 251 56- 224 57- 193 51- 131 56- 101 54- 043 55- 038 51- 030 52-	251 10380 56-				
VALENTIA 03953	01 11501	019 017 715	984 10 08 890 06 01 838 02 00 816 03 09- 792 05 08- 675 03- 16- 586 08- 26- 452 22- 27- 353 35- 39- 220 61- 205 61- 186 54- 090 54- 067 52-	220 11300 61-				
	01 18502	016 018 728	955 09 05 856 02 04- 815 05 07- 713 01- 15- 676 02- 17- 549 13- 29- 477 21- 33- 370 33- 40- 276 51- 226 61- 190 51- 123 55- 112 53- 093 53-	226 11100 61-				
Ocean Weather Station 'I' 59°00'N 19°00'W	01 32500	015 015 915	922 ++ 03- 90 ++ 04- 852 05- 07- 823 ++ 20- 800 02- 20- 759 ++ 25- 738 03- 26- 640 ++ 20- 622 07- 18- 601 ++ 14- 540 ++ 18- 534 14- 21- 522 14- 22- 490 ++ 30- 467 21- 29- 445 ++ 30- 390 ++ 39- 378 31- 40- 327 40- 48- 312 43- 207 63- 185 57- 110 54- 080 53-	207 11300 63-				
	02 31501	021 021 950	957 01 05- 904 03- 07- 794 12- 18- 753 09- 19- 673 07- 22- 618 ++ 27- 545 ++ 26- 513 18- 27- 494 ++ 29- 435 ++ 32- 346 40- 44- 244 55- 199 51- 156 53- 106 49- 056 51-	244 10500 55-				
Ocean Weather Station 'J' 52°30'N 20°00'W	02 885++	021 021 760	870 00 01- 832 05 06- 725 02- 17- 592 08- 32- 222 60- 189 61- 167 53- 035 55-	222 11200 60-				
	25 5947+	020 020 850 735	925 03 02 834 01- 01- 813 04 07- 563 10- 35- 462 22- 46- 419 26- 33- 240 57- 218 62- 182 51- 142 54-	218 11300 62-				

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	232330	T	250 30	+++ ++	270 46	270 47	267 55	260 50	260 66	260 63	270 75	270 79	270 81	250 77	260 39						
	250530	P	290 19	+++ ++	280 34	270 44	270 45	270 53	270 83	270 83	270 90	260 87	260 88	270 58	270 34	280 14	180 02	080 06			
	241130	T	270 29	+++ ++	290 31	290 32	290 29	290 29	270 59	270 81	260 88	260 85	260 89	260 67	270 36	280 19	280 06	000 00			
	241750	P	300 22	+++ ++	310 30	300 30	300 22	300 24	290 24	270 80	270 85	260 83	270 68	270 52	270 28	250 21					
STORNOWAY 03026	232330	T	250 15	+++ ++	270 31	270 34	270 44	270 44	270 46	280 44	280 50	280 44	270 46	260 42	270 30	260 09	230 02	090 05			
	240530	P	280 19	+++ ++	290 27	280 31	280 37	280 45	280 54	270 56	270 59	260 62	260 55	260 46	270 25	280 10					
	241125	T	300 21	+++ ++	290 27	290 23	280 47	270 50	270 50	270 55	260 64	260 71	250 64	260 50	260 30	250 12					
	241730	P	320 20	+++ ++	320 18	310 14	320 11	290 28	280 48	270 57	260 55	260 61	260 61	270 40	270 26	270 14	250 08				
SHANWELL 03170	232330	T	260 10	+++ ++	280 21	280 19	280 19	270 24	270 31	290 24	280 21	300 24	300 21	250 16	260 18	260 11	280 02				
	240530	P	240 10	+++ ++	300 25	290 24	280 21	270 25	270 36	270 37	280 28	270 18	270 24	250 22	250 18	260 17					
	241130	T	270 20	+++ ++	280 14	280 18	270 30	270 30	260 31	260 39	260 36	250 33	250 33	250 32	260 25	260 11	280 04	190 07	140 10	090 13	
	241730	P	080 22	+++ ++	340 06	290 14	290 15	270 30	270 38	260 38	250 42	260 37	260 37	260 37	260 25	260 16					
ALDERGROVE 03917	232330	T	270 05	+++ ++	280 14	270 15	290 13	280 12	260 07	310 08	340 08	350 10	010 11	290 03	240 09	220 10	080 02				
	240530	P	270 08	+++ ++	280 13	290 16	280 16	280 18	260 15	280 08	280 07	300 01	180 03	230 08	260 17	260 10					
	241130	T	290 09	+++ ++	310 12	290 15	270 20	270 16	270 15	260 16	240 12	240 12	230 12	240 13	240 20	220 06	150 06	110 12			
	241730	P	260 09	+++ ++	320 11	270 14	280 18	280 18	260 18	260 19	260 18	250 18	260 19	250 16	250 22	240 14					
AUGHTON 03322	232330	T	000 00	+++ ++	290 10	350 06	290 06	280 05	020 05	020 04	340 07	040 07	050 12	070 09	260 11						
	240530	P	250 07	+++ ++	290 16	300 11	280 09	280 10	240 04	300 05	060 02	070 04	090 07	140 04	250 12	260 06					
	241130	T	270 09	+++ ++	280 15	280 13	280 10	260 11	250 08	250 08	220 13	170 06	170 08	170 09							
	241730	P	270 08	+++ ++	300 17	280 15	280 10	280 12	260 11	250 10	230 11	210 06	170 06	230 12	230 13	230 10	230 07				
HEMSBY 03496	232330	T	190 07	+++ ++	270 07	270 09	210 04	280 03	300 04	050 06	060 24	070 25	070 30	070 14	340 07						
	240530	P	270 02	+++ ++	260 14	260 15	240 11	250 08	250 05	070 04	050 10	080 13	080 18	090 09	220 07	270 04	240 09	090 06			
	241130	T	010 10	+++ ++	260 12	250 11	230 08	240 12	230 10	120 03	110 08	120 15	130 18	160 11	230 09	220 08					
	241730	P	110 10	+++ ++	260 08	250 17	270 13	250 11	230 13	200 06	130 09	130 16	140 27	180 08	210 10	230 08	230 14				
CRAWLEY 03774	232330	T	000 00	+++ ++	220 03	200 04	230 02	280 02	000 00	040 04	070 17	070 45	080 52	090 17	090 10	120 07	080 04	030 04	110 10	090 09	
	240530	P	000 00	+++ ++	250 10	260 11	280 09	260 07	230 03	100 06	090 18	070 37	100 37	090 06	130 08	150 04	180 09	110 09	130 14		
	241110	P	240 07	+++ ++	210 07	220 11	270 06	270 07	240 05	190 04	110 16	110 28	100 31	140 11	140 07	180 06	170 07	140 06	150 07		
	241730	P	000 00	+++ ++	280 05	300 05	250 12	250 09	240 11	230 06	120 07	110 22	120 14	190 08	170 10	230 09	160 07	150 08	110 15	120 10	
CAMBORNE 03808	232330	T	060 05	+++ ++	060 03	180 02	290 02	180 01	060 04	050 06	070 08	080 43	090 54	110 24	100 13						
	240530	P	070 07	+++ ++	040 07	340 05	270 07	240 06	170 06	150 06	110 10	090 38	100 37	110 19	140 09	150 05	140 03				
	241130	T	030 11	+++ ++	040 04	180 01	270 05	260 04	210 04	160 05	160 07	150 15	120 18	140 14	140 12	160 08	180 09	140 08	110 12		
	241740	P	020 11	+++ ++	040 06	250 04	230 07	210 09	210 06	160 08	190 07	240 13	190 10	170 09	170 09	220 07	150 06	120 03			
VALENTIA 03953	232330	T	000 00	000 00	+++ ++	220 03	+++ ++	230 04	+++ ++	090 11	080 23	090 35	+++ ++	100 24	+++ ++	140 06					
	241130	T	350 09	020 08	+++ ++	210 07	+++ ++	260 05	+++ ++	140 06	100 19	100 34	+++ ++	130 19	+++ ++	150 05					
Ocean Weather Station 'I' 59°00'N 19°00'W	240001	T	310 24	+++ ++	310 26	330 29	290 35	290 42	270 48	280 48	280 48	280 55	260 60	260 42	270 19	270 12					
	240600	P	315 30	+++ ++	330 24	320 26	310 37	290 50	280 54	280 59	270 47	270 57	250 56	250 36	270 18						
	241200	T	340 28	+++ ++	320 32	310 28	300 30	300 40	300 47	270 50	270 54	280 42	280 47	260 40	260 27	250 09	000 00				
	241800	P	360 20	+++ ++	330 28	310 25	320 24	320 31	300 47	290 49	280 42	290 49	290 35	290 30	250 19	230 15	000 00				
Ocean Weather Station 'J' 52°30'N 20°00'W	232300	P	040 02	+++ ++	020 06	010 04	340 06	270 06	000 00	000 00	000 00	080 18	100 26	120 37	090 30						
	240600	P	360 05	+++ ++	360 14	360 14	360 08	010 08	020 12	040 20	060 24										
	241100	T	040 08	040 11	+++ ++	040 12	+++ ++	010 12	+++ ++	030 18	080 24	060 20									
	241800	P	045 10	+++++	060 11	070 09	060 08	040 06	350 08	340 08	010 12	010 17	030 12	020 13							
LARKHILL 03743	240625	P	270 01	+++ ++	270 06	230 12	250 10	260 06	300 03	150 03	110 23	080 37	090 38	100 11	140 07	160 06	190 05	120 06			
	241010	P	000 00	+++ ++	220 05	220 07	270 07	270 07	270 05	210 03	120 18	100 36	100 36	130 15	150 08	170 06	220 05				

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	114mb 260 39 23400m 080 03 02750/0 03200/0 11900/1 17100m 260 11 04600/6	270 84 08480m 260 95 08170m 290 93 10040m 270 90 07420m
STORNOWAY 03026	047mb 090 08 12450/1 122mb 260 19 077mb 290 07 02900/0 03320/0 10930/1	260 63 09180m 260 73 08950m 260 64 10100m
SHANWELL 03170	16800m 250 08 P27300m 090 15 00350m 070 16 17650m 300 10	
ALDERGROVE 03917		
AUGHTON 03322	172mb 330 06 118mb 210 08 16800m 180 08	
HEMSBY 03496	105mb 210 02 081mb 190 06 06260m 130 06	
CRAWLEY 03774	369mbs 080 31 227mbs 070 39 25800m 120 12 04530/8 11200/1 11680/1 10450/1 05790/5 28800m 100 13	
CAMBORNE 03808	334mb 080 27 218mb 100 33 113mb 130 07 20400m 090 07 08790/0 11460/1 P24900m 110 18	
VALENTIA 03953	890mb 220 03 792mb 210 03 675mb 200 03 586mb 100 04 220mb 100 39 067mb 150 05 955mb 080 07 815mb 250 04 549mb 190 03 226mb 090 32 123mb 150 10 093mb 150 05	
Ocean Weather Station 'I' 59°00'N 19°00'W	169mb 270 28 088mb 270 09 12300m 250 27 15300m 270 15 116mb 250 16 061mb 000 00 18900m 000 00 03120/0 10250/1	250 72 11000m 260 66 09780m
Ocean Weather Station 'J' 52°30'N 20°00'W	00300m 040 03 00600m 030 05 00300m 010 13 00600m 360 14 08700m 050 22 925mb 040 20 813mb 030 10 563mb 030 16 462mb 040 19 418mb 070 22 240mb 050 18 00300m 050 09 00600m 050 10	
LARKHILL 03743	04230/9 11230/1 06400m 100 06	

NOTES ON THE AEROLOGICAL SITUATION

Over most of the European and Atlantic sectors the changes still remain slow. The old low between Portugal and the Azores, in particular, is remarkably slow to fill up, either in the contour picture or in the thermal picture.

Further north, in the region to east of Iceland and Greenland, there continues to be vigorous cyclonic development. A jet stream strengthens from the northwest and comes into the British Isles. The cold air is carried rather unusually far southward across Iceland into the northeast Atlantic.

AVERAGE AND EXTREME VALUES 1951-55

MAY

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	22145	-50.1	-46	-55	...	...
60	19500	-50.3	-43	-60	102	2
100	16180	-51.4	-44	-62	283	3
150	13540	-51.0	-42	-62	288	7
200	11680	-53.8	-39	-69	288	10
300	9070	-48.8	-37	-56	281	11
400	7125	-35.0	-27	-49	282	10
500	5530	-23.2	-15	-38	283	8
700	2985	-7.0	1	-20	289	4
850	1450	0.9	11	-10	310	2

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9
60	19480	-52.8	-46	-62	69	1
100	16195	-53.8	-44	-61	284	5
150	13590	-53.3	-46	-65	284	10
200	11750	-55.3	-42	-67	282	15
300	9140	-47.7	-38	-56	274	15
400	7180	-33.4	-23	-48	270	13
500	5580	-21.4	-11	-34	267	11
700	3015	-5.3	6	-16	258	7
850	1470	3.0	15	-6	254	5

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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

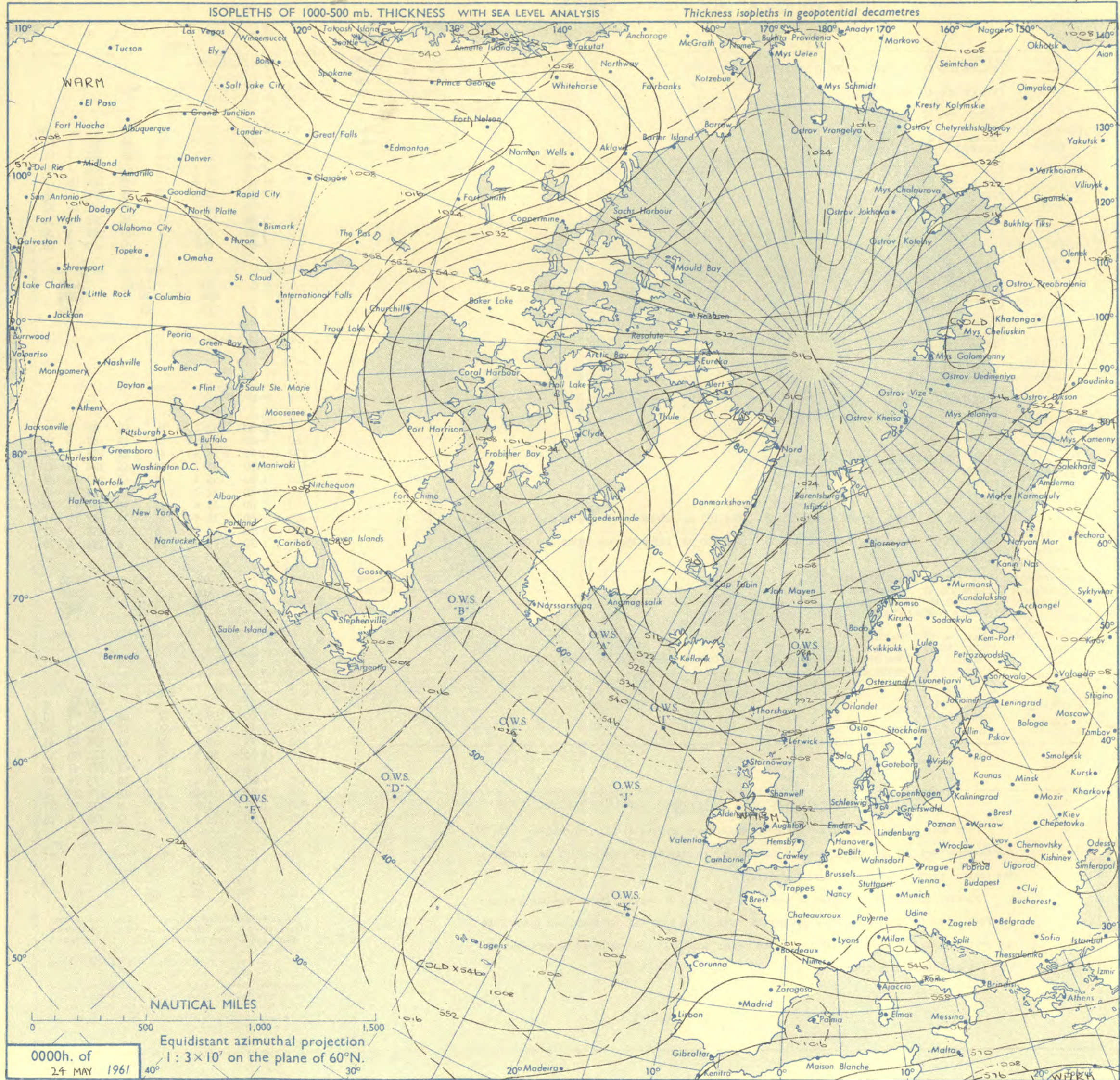
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	...	...	...	...	180	2
60	19500	-59.3	-57	-66	270	6
100	16315	-60.2	-51	-67	270	24
150	13775	-59.1	-49	-71	275	40
200	11970	-58.9	-48	-67	275	48
300	9355	-43.8	-39	-49	275	42
400	7365	-28.2	-23	-38	275	34
500	5720	-16.0	-12	-28	275	27
700	3095	2.2	9	-9	275	16
850	1500	12.2	24	2	275	9

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb. 117	°C -65.1	mb. ...	mb. 80	°C ...	°C -71
Lower	199	-60.9	365	...	-41	...

* 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.

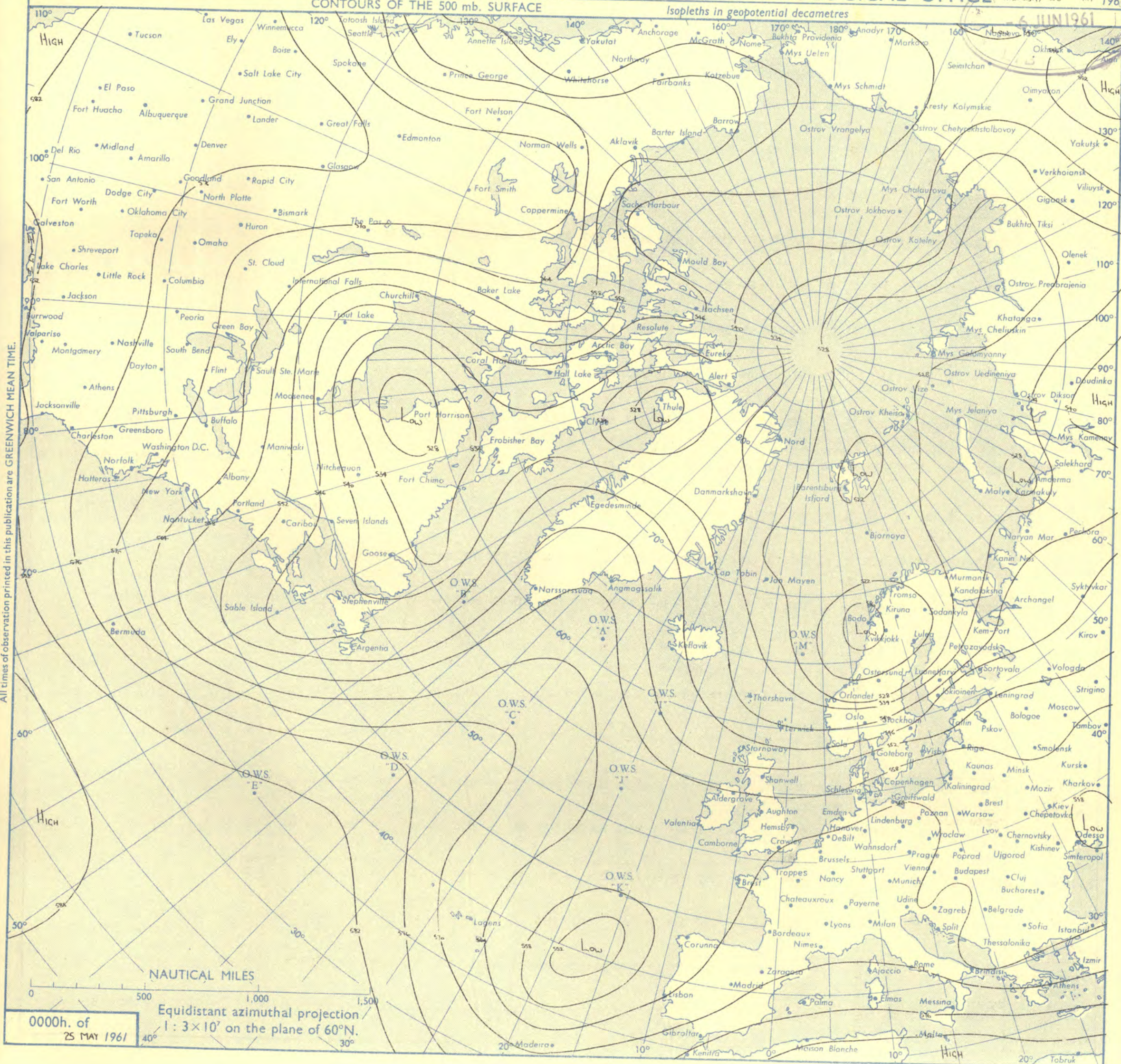


6 JUN 1961

CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

25 May, 1971

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	gpm °C
LERWICK 03005	242330	082 05 02 099 05 02 1407 03- 06- 2913 14- 17- 5396 23- 34- 7007 32- 43- 8980 46- ++ 11667 46- 13579 48- 16262 48- 18612 49- 20822 48-													
	251130	082 07 01- 142 06 02- 1438 07- 10- 2926 15- 27- 5395 32- 49- 6938 41- ++ 8873 45- ++ 11600 43- 13536 45- 16224 47- 18574 49- 20778 50-													
STORNOWAY 03026	242330	013 06 04 151 06 02 1456 05- 06- 2954 15- 16- 5485 22- 38- 7091 33- 41- 9053 47- ++ 11693 49- 13578 49-													
	251135	013 07 02 184 05 01- 1482 06- 08- 2971 16- 33- 5422 33- 43- 6958 41- ++ 8904 42- ++ 11634 45- 13550 46- 16228 49- 18559 51- 20757 49-													
SHANWELL 03170	242330	005 08 03 133 09 00 1447 03- 03- 2977 04- 31- 5552 21- 29- 7176 31- 45- 9151 47- ++ 11746 53- 13610 52- 16234 52- 18548 52-													
	251130	005 10 05 152 06 01 1460 04- 08- 2963 13- 16- 5488 22- 35- 7094 33- 42- 9058 48- ++ 11705 47- 13612 48- 16289 47- 18641 48- 20872 46- 24285 43-													
ALDERGROVE 03917	242330	077 06 03 154 07 03 1466 03- 05- 3007 04- 22- 5590 19- 36- 7212 30- 34- 9192 47- ++ 11775 56- 13628 54- 16232 52- 18532 53- 20703 53- 24009 51-													
	251130	077 11 00 155 09 01- 1464 04- 08- 2971 07- 31- 5527 21- 31- 7139 32- 42- 9105 47- ++ 11712 49- 13593 52- 16217 51- 18526 52- 20714 50-													
AUGHTON 03322	242330	056 11 07 140 10 06 1467 00 02- 3014 04- 17- 5602 19- 25- 7228 29- 36- 9215 45- ++ 11808 57- 13667 53- 16267 53- 18567 53- 20740 53- 24031 53-													
	251130	056 11 02 142 09 00 1457 03- 05- 2992 05- 23- 5561 21- 28- 7172 33- 39- 9137 47- ++ 11735 50- 13611 52- 16242 51- 18575 50- 20767 51- 24127 47-													
HEMSBY 03496	242330	012 11 09 130 14 08 1474 03 01- 3031 02- 21- 5626 19- 37- 7246 31- 47- 9211 49- ++ 11815 52- 13676 54- 16271 53- 18560 55- 20723 52-													
	251130	012 13 08 125 11 05 1458 01 01- 3009 02- 24- 5592 20- 38- 7202 33- 43- 9163 48- ++ 11777 51- 13654 51-													
CRAWLEY 03774	242344	144 09 06 136 ++ ++ 1485 03 00 3051 03- 16- 5634 20- 33- 7243 33- 45- 9203 49- ++ 11821 52- 13679 53- 16289 53- 18583 55- 20753 52-													
	251130	144 17 07 118 ++ ++ 1468 03 01- 3023 03- 20- 5600 21- 38- 7214 32- 46- 9169 49- ++ 11759 53- 13623 52- 16253 52- 18557 54- 20733 51-													
CAMBORNE 03808	242330	088 09 09 142 10 08 1485 06 13- 3052 02- 21- 5634 20- 37- 7244 33- 42- 9199 50- ++ 11796 53- 13658 53- 16270 54- 18563 54-													
	251130	088 15 10 128 14 07 1468 02 02- 3020 04- 17- 5584 21- 28- 7188 34- 40- 9134 51- ++ 11709 53- 13570 52- 16191 54- 18482 54- 20612 53-													
VALENTIA 03953	250001	014 10 08 152 10 07 1481 01 05- 3042 03- 10- 5630 18- 30- 7260 30- 34- 9240 46- ++ 11850 55- +++++ ++ 16330 54-													
	251200	014 12 07 158 08 03 1472 01- 04- 3004 06- 24- 5570 22- 34- 7180 32- 43- 9150 47- ++ 11730 58- +++++ ++ 16180 53-													
Ocean Weather Station 'I' 59°00'N 19°00'W	250001	08 01- 206 06 01- 1504 06- 10- 2997 15- 27- 5510 23- 39- 7110 35- 45- 9050 50- ++ 11670 50- 13550 50- 16180 52-													
	251200	08 01 230 05 00 1529 06- 11- 3030 13- 28- 5530 25- 41- 7120 36- 43- 9050 51- ++ 11680 48- 13570 50- 16230 49- 18550 51- 20740 51-													
Ocean Weather Station 'J' 52°30'N 20°00'W	242300	11 07 179 10 05 1505 01- 04- 3046 04- 16- 5620 20- 35- 7240 31- 47- 9210 46- ++ 11780 60- 13620 54- 16210 54-													
	251100	10 04 210 08 02 1521 04- 08- 3056 04- 13- 5640 21- 29- 7240 34- 41- 9200 48- ++ 11800 55- 13650 54- 16250 53- 18550 53- 20720 54-													

STATION	ww N _h C _L hC _M C _H	PRESSURE			TROPOPAUSE mb m °C
		MSL	Surf.	0°C level	
LERWICK 03005	01 25600	012 002 909	982 05 01 871 03- 06- 836 04- 08- 693 15- 18- 642 17- 24- 538 27- 37- 495 23- 34- 464 25- 37- 340 40- 50-	309 45- 254 49- 237 49- 215 45- 100 48- 038 50-	254 10080 49-
	02 684++	017 007 934	991 05 02- 920 ++ 05- 870 ++ 10- 849 07- 10- 751 ++ 16- 730 14- 21- 690 15- 29- 543 27- 44- 497 32- 50-	415 42- 392 41- 316 46- 228 42- 159 44- 119 48- 100 47- 036 51-	316 08510 46-
STORNOWAY 03026	01 12500	019 017 915	009 ++ 02 995 06 02 957 ++ 01- 900 ++ 02- 865 ++ 07- 848 ++ 06- 828 06- 08- 744 ++ 14- 735 ++ 14- 695 ++	16- 653 17- 27- 639 ++ 32- 616 13- 33- 596 13- 38- 516 ++ 39- 472 24- 35- 440 ++ 34- 420 ++ 37- 348 40-	244 10400 53-
	25 62500	023 021 941	010 ++ 01- 920 02- 04- 752 ++ 15- 736 ++ 25- 714 ++ 32- 613 ++ 43- 587 ++ 38- 514 31- 41- 466 37- 49- 432	40- 326 43- 221 43- 072 51- 050 49-	432 06440 40-
SHANWELL 03170	61 854++	016 016 900	006 09 00 904 00 01- 852 ++ 03- 769 08- 08- 741 04- 21- 728 04- 26- 652 ++ 27- 618 09- 18- 599 09- 25-	570 12- 28- 500 21- 29- 488 21- 32- 432 ++ 40- 340 40- 48- 228 61- 203 53- 100 52- 055 52-	228 10930 61-
	80 6356+	019 018 906	006 06 01 964 ++ 01- 820 06- 09- 666 16- 19- 646 17- 22- 628 ++ 27- 622 14- 28- 585 ++ 34- 501 22- 36-	454 ++ 34- 347 40- 48- 325 44- 258 54- 244 54- 224 48- 182 46- 134 49- 100 47- 060 48- 052 45- 037 45- 036	258 10040 54-
ALDERGROVE 03917	02 757++	019 009 893	000 07 03 895 ++ 05- 825 05- 06- 813 01- 10- 805 ++ 21- 780 01- 33- 770 ++ 36- 763 ++ 12- 755 ++ 12- 738	++ 21- 725 03- 13- 715 ++ 21- 685 ++ 23- 653 06- 36- 637 ++ 41- 602 ++ 34- 570 ++ 26- 540 16- 32- 528 16-	220 11190 62-
	03 785++	019 009 900	986 07 01- 895 00 04- 829 ++ 10- 765 11- 13- 736 ++ 24- 709 07- 27- 676 08- 41- 648 ++ 36- 614 ++ 19- 604	13- 19- 572 ++ 21- 545 ++ 31- 532 18- 30- 523 ++ 29- 420 30- 40- 347 ++ 50- 246 58- 231 58- 203 49- 143	246 10420 58-
AUGHTON 03322	02 855++	017 010 851 758	004 ++ 06 970 ++ 05 947 ++ 02 808 03- 04- 790 01 05- 737 ++ 08- 712 ++ 16- 672 05- 22- 632 ++ 21- 618 ++	26- 580 11- 32- 558 13- 31- 531 ++ 23- 474 22- 27- 405 29- 36- 332 40- 46- 223 61- 213 61- 189 53- 165 51-	223 11120 61-
	02 615++	017 010 894	985 07 00 833 04- 05- 786 01- 16- 778 ++ 20- 748 03- 14- 731 04- 19- 682 ++ 25- 647 08- 24- 486 ++ 28- 428	++ 33- 396 ++ 39- 346 40- 46- 236 59- 218 59- 201 50- 106 52- 085 49- 065 52- 030 47-	236 10690 59-
HEMSBY 03496	02 855++	016 014 812 727	005 14 09 001 ++ 08 890 06 02 873 ++ 00 796 01- 02- 771 03 09- 768 ++ 14- 669 11- 31- 395 32- 48- 265	56- 230 56- 176 51- 133 56- 090 53- 071 55- 050 52-	265 10000 56-
	03 7853+	015 013 834 738	000 11 05 980 11 04 940 07 00 844 ++ 01- 821 ++ 05- 783 04- 05- 770 02- 09- 743 ++ 19- 624 ++ 31- 540 15-	35- 475 23- 39- 432 ++ 38- 410 32- 42- 350 40- 49- 292 50- 254 56- 185 49- 114 52-	254 10230 56-
CRAWLEY 03774	02 00900	017 999 732	990 14 09 983 ++ 07 827 01 01- 808 ++ 07- 796 06 10- 710 02- 15- 630 07- 23- 425 30- 42- 366 37- 49- 296	50- 275 53- 237 55- 217 51- 092 54- 042 52- Pressure suspect above 100mb	237 10730 55-
	02 11500	014 997 812 744	983 15 05 870 ++ 01 828 ++ 02- 810 00 05- 797 02 07- 777 ++ 12- 726 01- 19- 658 ++ 25- 451 ++ 42- 398	33- 46- 372 ++ 50- 261 57- 244 59- 185 51- 040 51-	244 10500 59-
CAMBORNE 03808	02 00902	017 006 732	993 11 09 957 ++ 01 951 10 01 893 ++ 04 870 05 00 850 06 13- 835 07 15- 820 06 19- 662 ++ 22- 517	18- 36- 442 ++ 43- 393 34- 43- 354 40- 47- 270 55- 243 58- 216 54- 173 52- 109 54- 056 54-	243 10540 58-
	02 15601	015 005 762	996 ++ 05 985 12 03 946 ++ 01 892 ++ 01 835 01 03- 808 03 11- 554 ++ 27- 501 21- 28- 450 28- 33- 361 40-	46- 255 61- 221 55- 173 51- 121 51- 109 54- 059 54- 035 49-	255 10180 61-
VALENTIA 03953	03 15631	018 017 730	905 04 03 830 01 07- 810 03 06- 769 03 08- 700 03- 10- 553 13- 25- 269 52- 234 58- 181 53- 083 52-		234 10800 58-
	01 785++	019 018 900	002 09 04 888 01- 02- 856 01- 04- 806 05 06- 764 02- 17- 686 06- 24- 619 10- 32- 501 22- 34- 216 63- 179	52- 126 53- 111 57- 101 53- 086 53-	216 11200 63-
Ocean Weather Station 'I' 59°00'N 19°00'W	16 33560	025 025 937	923 01- 06- 903 02- 09- 827 08- 11- 779 10- 25- 657 18- 28- 648 18- 28- 630 18- 38- 620 18- 38-	603 14- 35- 498 ++ 42- 416 33- 43- 364 40- 50- 266 55- 235 55- 211 50- 052 52-	266 09800 55-
	02 525++	028 028 939	939 00 02- 892 03- 05- 855 ++ 08- 842 ++ 14- 768 09- 23- 616 19- 34- 600 18- 36- 514 ++ 42- 416 34- 41-	374 40- 46- 343 45- 273 54- 220 52- 205 48- 139 51- 104 48- 084 52-	273 09700 54-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 884++	021 021 860	797 05- 08- 777 00 11- 612 09- 23- 375 34- 213 63- 173 52- 136 56- 070 52- 065 52-		213 11400 63-
	02 58500	026 026 908	011 09 02 999 08 02 942 03 01- 889 ++ 06- 830 05- 09- 782 01- 13- 761 02- 11- 696 05- 14- 665 08- 15- 625	++ 16- 594 10- 18- 475 25- 32- 346 40- 47- 293 49- 217 61- 207 55- 180 53- 081 54- 073 53- 045 54-	217 11300 61-

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE	SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL Surf. °C level	m °C °C	m	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
251143	44.1°N 11.5°W	012 005 758	061 15 15	101	12 12	988 09 08	1457 07 05	1954 03 01	01- ++	3021 03- ++	07- ++	4221 12- ++	16- ++	5593 21- ++
Cloud :— 5/8 St. 700 to 1200 ft. 1/8 Cu. 700 to 3000 ft. 1/8 Cu. 1800 to 8000 ft. 1/8 Cb. HNG to 16000 St. 1/8 Cb HNG to 25000 ft. 5/8 Ci. 17000 to TNG Inversion 2/8 Ac. 8000 to 9000 ft. Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE	SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL Surf. °C level	m °C °C	m	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
251306	45.1°N 06.0°W	011 004 750	061 15 14	88	13 10	972 11 07	1445 07 03	1942 04 01	00 ++	3011 03- ++	07- ++	4212 11- ++	15- ++	5590 20- ++
Cloud :— 3/8 St. 600 to 800 ft. 1/8 Ac. at 11000 ft. 2/8 Cu HNG to 13000 ft. 2/8 Ci. at 25000 ft. Inversion 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	043mb 170 13 06300m 260 63 05800/9 06200/0 12350/1 040mb 170 05 25200m 070 04 12270/1	260 87 06830m 250 86 07700m 240 80 08100m
STORNOWAY 03026	21500m 080 04 04480/6 04950/0 10560/1 18200m 310 04	250 66 09450m 250 70 09400m
SHANWELL 03170	060mb 220 05 10930/1 05800/0	250 62 09200m 240 75 09260m 260 86 07150m
ALDERGROVE 03917	23100m 090 05 123mb 250 18 035mb 120 09 19500m 340 03 03800/5 04210/0 11360/1	
AUGHTON 03322	P22440m 090 12 22110/3 22830/2 14700m 230 12 01080/5 11610/2 P27900m 130 20	
HEMSBY 03496	056mb 110 01 17400m 250 07 124mb 240 13 23200m 080 05	
CRAWLEY 03774	P23400m 090 05 13500m 220 09 22500m 120 05 10660/1 23400m 120 05 01770/8	
CAMBORNE 03808	060mb 140 05 10550/7 038mb 120 09 22200m 080 09 02050/5 11340/2	
VALENTIA 03953	905mb 110 05 769mb 270 06 553mb 280 10 234mb 080 23 181mb 110 05 083mb 170 04 888mb 030 06 764mb 340 08 619mb 290 16 216mb 310 12 126mb 280 09 086mb 250 07	
Ocean Weather Station 'I' 59°00'N 19°00'W	173mb 300 32 058mb 000 00 04800m 340 30 21300m 000 00 04580/0 10920/1 14760/2 519mb 330 30 273mb 320 66 175mb 320 29 054mb 000 00 04800m 330 24 16800m 280 13 05250/0 11080/1	300 72 06600m 320 66 07690m 320 67 09820m
Ocean Weather Station 'J' 52°30'N 20°00'W	797mb 340 08 612mb 340 12 375mb 360 17 213mb 020 26 173mb 030 26 130mb 030 22 22800m 100 09 217mb 300 22 122mb 320 10 17100m 330 06	
LARKHILL 03743	11800/5 01770/8	

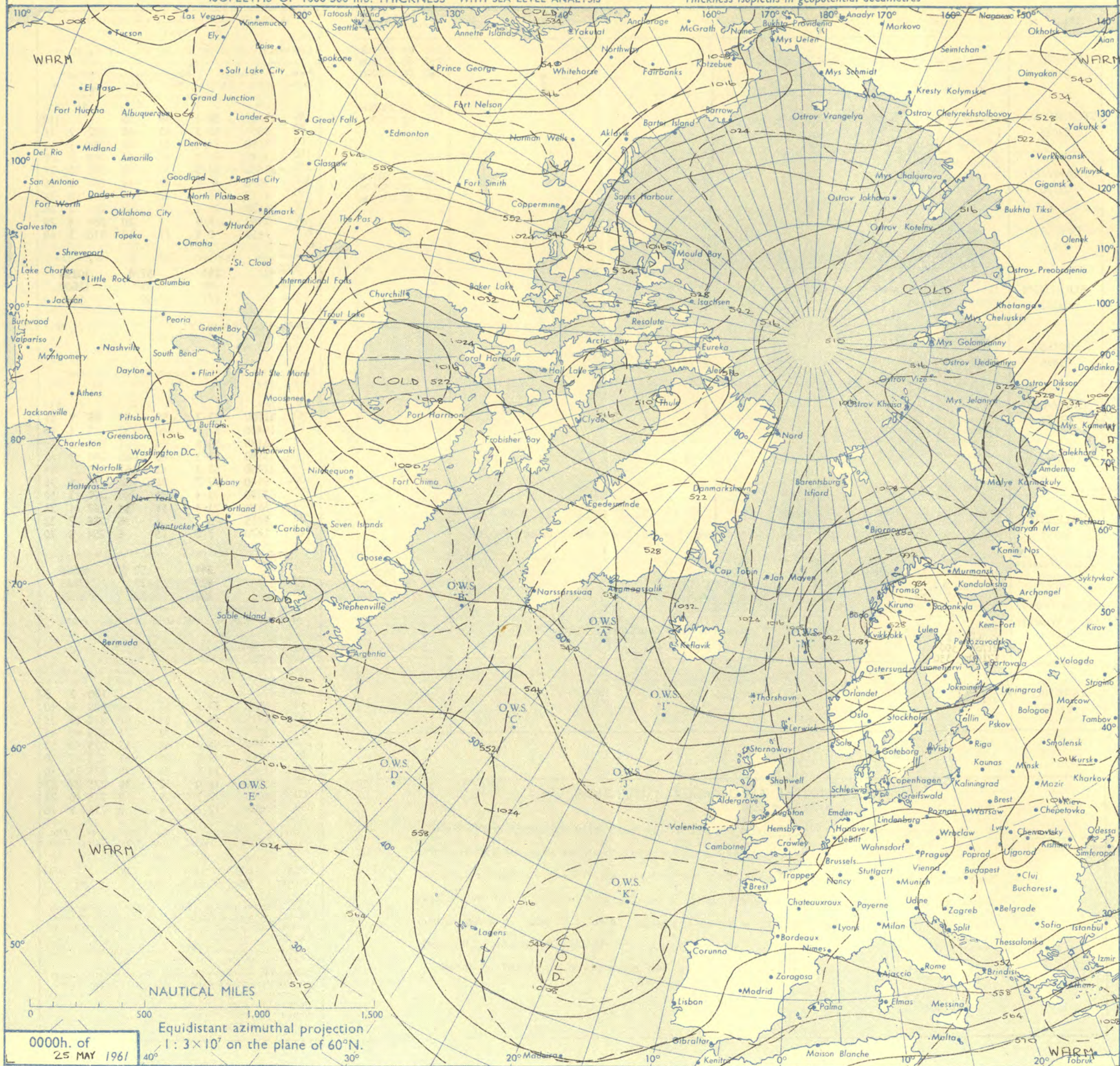
NOTES ON THE AEROLOGICAL SITUATION

The low over the east of Hudson Bay is drifting slowly south while the trough over Labrador moves north and relaxes. Another trough off the eastern American states is moving steadily east. The ridge over mid-Atlantic and south Greenland is increasing in amplitude and moving slowly east. The vortex over north Norway is moving steadily east and becoming less intense, though the westerly flow on its southern flank over the south of Norway and Sweden is still strong. A trough extending southwest between Iceland and Scotland is moving southeast. The old cut-off low west of Portugal persists, but is slowly becoming less deep. The ridge over southwestern Europe and the trough over southeastern Europe are slow moving.

AVERAGE AND EXTREME VALUES 1951-55							
MAY							
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	22145	-50.1	-46	-55	...	...	(10)
60	19500	-50.3	-43	-60	102	2	11
100	16180	-51.4	-44	-62	283	3	13
150	13540	-51.0	-42	-62	288	7	19
200	11680	-53.8	-39	-69	288	10	27
300	9070	-48.8	-37	-56	281	11	36
400	7125	-35.0	-27	-49	282	10	32
500	5530	-23.2	-15	-38	283	8	26
700	2985	-7.0	1	-20	289	4	20
850	1450	0.9	11	-10	310	2	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		254	-57.8		10230		
Max.		479	-39		12800		
Min.		171	-69		5545		
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	22100	-52.2	-50	-58	85	9	11
60	19480	-52.8	-46	-62	69	1	10
100	16195	-53.8	-44	-61	284	5	14
150	13590	-53.3	-46	-65	284	10	22
200	11750	-55.3	-42	-67	282	15	34
300	9140	-47.7	-38	-56	274	15	45
400	7180	-33.4	-23	-48	270	13	38
500	5580	-21.4	-11	-34	267	11	31
700	3015	-5.3	6	-16	258	7	23
850	1470	3.0	15	-6	254	5	20
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		244	-58.0		10560		
Max.		405	-39		13685		
Min.		158	-72		6825		
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	...	...	...	...	180	2	8
60	19500	-59.3	-57	-66	270	6	10
100	16315	-60.2	-51	-67	270	24	25
150	13775	-59.1	-49	-71	275	40	43
200	11970	-58.9	-48	-67	275	48	53
300	9355	-43.8	-39	-49	275	42	50
400	7365	-28.2	-23	-38	275	34	40
500	5720	-16.0	-12	-28	275	27	32
700	3095	2.2	9	-9	275	16	23
850	1500	12.2	24	2	275	9	16
Tropo- pause		Average Press. Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
		mb. °C	mb.	mb.	°C	°C	
Upper		117 -65.1	...	80	...	-71	
Lower		199 -60.9	365	...	-41	...	
* 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

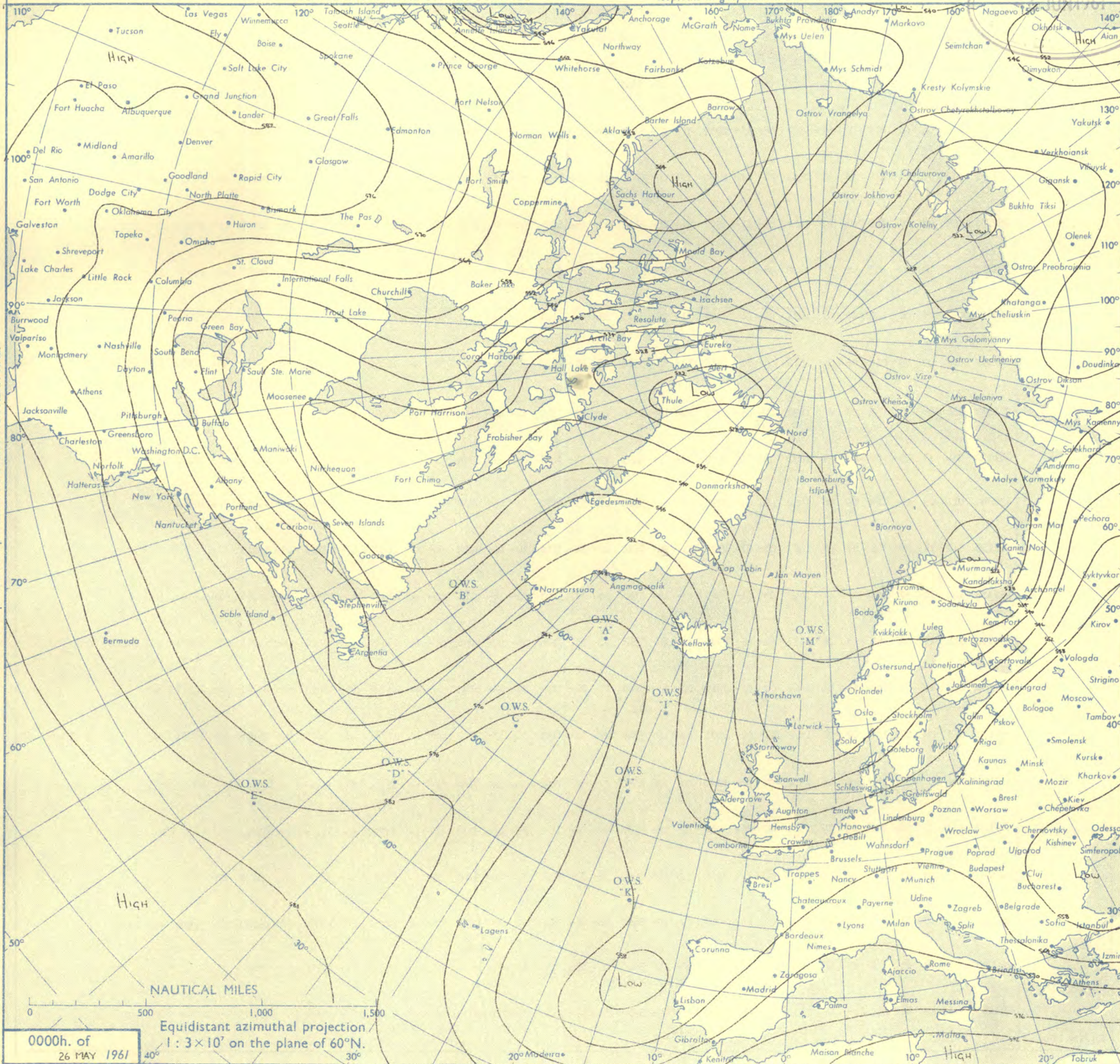
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



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	252330	082	02	01	165	02	01	1455	08	10	2935	18	22	5360	36	45	6876	45		8805	41	++	11577	41																
	261130	082	05	03	170	03	04	1455	09	12	2930	18	24	5361	34	42	6886	45	++	8812	42	++	11568	42	13507	44	16195	49	18537	49	20741	50	24070	51						
STORNOWAY 03026	252350	013	04	01	218	03	01	1507	08	11	2989	16	23	5450	31	40	6995	42	++	8901	47	++	11629	43	13559	46	16242	48	18585	49	20787	50								
	261130	013	07	01	219	03	03	1506	08	10	2990	17	20	5441	31	36	6996	38	45	8937	48	++	11626	44	15552	45	16230	49	18585	49	20803	46								
SHANWELL 03170	252330	005	05	01	186	03	02	1483	05	11	2977	14	25	5443	32	45	6986	42	++	8916	46	++	11636	43	13556	46	16237	49	18575	50										
	261130	005	10	02	203	05	06	1498	07	11	2985	16	27	5450	31	43	7000	41	++	8927	42	++	11680	41	13613	44	16310	47	18662	51										
ALDERGROVE 03917	260020	077	03	02	182	06	03	1491	03	06	3002	11	27	5513	25	++	7101	36	++	9041	50	+++	11699	46	13606	48	16272	48	18609	49	20805	51	24146	48						
	261130	077	09	05	214	06	04	1516	06	10	3015	13	30	5504	28	41	7074	39	49	9003	47	++	11693	47	13596	47	16263	49	18594	50	20786	50	24145	48						
AUGHTON 03322	252330	056	08	03	157	07	02	1472	02	05	2985	12	16	5510	22	40	7112	34	48	9058	50	++	11680	47	13577	50	16235	50												
	261130	056	11	03	189	08	05	1497	04	10	2999	13	27	5499	27	41	7066	40	++	8994	49	++	11693	44	13617	46	16292	48	18626	50										
HEMSBY 03496	252340	012	09	06	128	09	06	1452	01	02	2990	05	12	5564	21	35	7171	33	41	9130	49	++	11731	49	13614	49	16256	51	18574	51										
	261130	012	11	05	158	07	01	1467	04	07	2975	11	28	5510	22	30	7110	34	40	9059	50	++	11671	47	13566	49	16218	51												
CRAWLEY 03774	252330	144	11	07	123	++	++	1458	03	01	3007	03	16	5583	20	28	7201	32	38	9161	49	++	11752	51	13633	50	16275	52	18590	52										
	261130	144	13	00	150	13	00	1473	02	05	2990	11	15	5541	22	33	7146	34	42	9096	50	++	11713	47	13604	49	16261	51	18573	52	20764	49								
CAMBORNE 03808	252330	088	10	04	140	10	04	1469	02	03	3016	04	13	5588	21	28	7193	34	42	9140	50	++	11740	50	13619	51	16262	50	18571	52										
	261130	088	08	07	158	07	05	1472	01	02	3001	09	11	5548	22	32	7150	34	43	9107	48	++	11741	48	13639	49	16303	50	18631	51	20820	50	24161	50						
VALENTIA 03953	260000	014	10	05	179	09	05	1502	00	04	3020	07	22	5580	22	30	7190	34	39	9140	50	++	11750	51	++++	++	16260	51	++++	++										
	261130	014	12	04	208	10	04	1524	02	06	3046	10	22	5570	25	36	7170	35	45	9110	48	++	11750	49	++++	++	16270	51												
Ocean Weather Station 'I' 59°00'N 19°00'W	260000		08	03	253	05	02	1554	04	18	3064	12	26	5600	22	33	7200	33	44	9160	49	++	11760	52	13630	51	16250	52												
	261200		08	01	255	05	00	1552	04	08	3067	09	19	5640	18	26	7270	30	38	9250	44	++	11850	58	13680	55	16280	52	18580	52										
Ocean Weather Station 'J' 52°30'N 20°00'W	260000		10	05	231	08	04	1547	02	03	3072	05	24	5640	20	32	7250	32	39	9220	47	++	11840	51	13710	53	16310	55												
	261100		12	04	255	08	02	1572	01	11	3104	05	19	5700	17	32	7330	30	43	9310	45	++	11920	58	13750	55	16340	55	18630	52										

STATION	ww N _H C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	26 59400	020 010 959	004 02 01- 971 01 03- 920 ++ 05- 880 06- 09- 840 ++ 10- 800 ++ 15- 744 ++ 17- 720 ++ 21- 695 ++ 23- 675	004 02 01- 971 01 03- 920 ++ 05- 880 06- 09- 840 ++ 10- 800 ++ 15- 744 ++ 17- 720 ++ 21- 695 ++ 23- 675		409	06720	45-
	02 784++	021 011 968	998 03 04- 932 03- 08- 785 14- 16- 694 18- 25- 597 26- 34- 450 40- 48- 404 45- 378 46- 255 40- 100 49- 030	998 03 04- 932 03- 08- 785 14- 16- 694 18- 25- 597 26- 34- 450 40- 48- 404 45- 378 46- 255 40- 100 49- 030		378	07280	46-
STORNOWAY 03026	25 32560	027 025 954	010 ++ 00 845 08- 11- 754 ++ 16- 728 15- 19- 713 15- 21- 656 ++ 27- 416 40- 49- 353 49- 251 42- 161 44-	010 ++ 00 845 08- 11- 754 ++ 16- 728 15- 19- 713 15- 21- 656 ++ 27- 416 40- 49- 353 49- 251 42- 161 44-		353	07800	49-
	80 8152+	027 025 960	014 04 02- 917 ++ 06- 874 06- 08- 740 14- 16- 624 23- 27- 613 23- 30- 550 ++ 34- 473 ++ 39- 458 35- 40-	014 04 02- 917 ++ 06- 874 06- 08- 740 14- 16- 624 23- 27- 613 23- 30- 550 ++ 34- 473 ++ 39- 458 35- 40-		277	09470	50-
SHANWELL 03170	01 15500	023 023 943	012 04 02- 900 ++ 06- 835 ++ 12- 753 12- 15- 736 12- 17- 719 ++ 22- 450 37- 49- 405 42- 323 45- 305 47-	012 04 02- 900 ++ 06- 835 ++ 12- 753 12- 15- 736 12- 17- 719 ++ 22- 450 37- 49- 405 42- 323 45- 305 47-		305	08810	47-
	02 52500	025 024 931	016 06 06- 854 07- 11- 755 14- 17- 742 12- 18- 732 ++ 21- 717 ++ 25- 622 ++ 34- 528 29- 41- 489 31- 43-	016 06 06- 854 07- 11- 755 14- 17- 742 12- 18- 732 ++ 21- 717 ++ 25- 622 ++ 34- 528 29- 41- 489 31- 43-		351	07860	48-
ALDERGROVE 03917	01 15600	022 013 894	013 03 02 009 05 04 983 ++ 00 978 05 00 817 ++ 08- 791 ++ 12- 776 ++ 12- 770 08- 16- 764 ++ 21- 709 10-	013 03 02 009 05 04 983 ++ 00 978 05 00 817 ++ 08- 791 ++ 12- 776 ++ 12- 770 08- 16- 764 ++ 21- 709 10-		268	09770	55-
	02 685++	026 017 924	009 07 04 804 10- 14- 785 08- 21- 735 ++ 29- 570 ++ 41- 432 35- 45- 394 40- 49- 367 44- 351 44- 324 47-	009 07 04 804 10- 14- 785 08- 21- 735 ++ 29- 570 ++ 41- 432 35- 45- 394 40- 49- 367 44- 351 44- 324 47-		324	08500	47-
AUGHTON 03322	60 855++	019 012 883	965 05 02 941 ++ 03- 880 ++ 03- 664 15- 19- 652 ++ 19- 638 14- 22- 621 ++ 30- 595 ++ 34- 524 19- 37- 361	965 05 02 941 ++ 03- 880 ++ 03- 664 15- 19- 652 ++ 19- 638 14- 22- 621 ++ 30- 595 ++ 34- 524 19- 37- 361		249	10250	57-
	02 41500	023 016 901	007 08 05- 811 08- 13- 794 07- 16- 771 ++ 19- 714 12- 26- 679 13- 27- 537 23- 38- 401 39- 301 49- 223 44-	007 08 05- 811 08- 13- 794 07- 16- 771 ++ 19- 714 12- 26- 679 13- 27- 537 23- 38- 401 39- 301 49- 223 44-		301	08960	49-
HEMSBY 03496	02 45530+	016 014 837	006 ++ 05 964 ++ 05 910 03 01 890 ++ 02- 877 ++ 01 867 02 00 840 ++ 04- 759 ++ 08- 753 07- 10- 744 02-	006 ++ 05 964 ++ 05 910 03 01 890 ++ 02- 877 ++ 01 867 02 00 840 ++ 04- 759 ++ 08- 753 07- 10- 744 02-		239	10600	59-
	02 53563	019 017 911	007 08 02 928 01 02- 785 08 10- 778 08- 10- 761 08- 24- 658 13- 32- 595 14- 41- 541 ++ 32- 522 ++ 28- 508	007 08 02 928 01 02- 785 08 10- 778 08- 10- 761 08- 24- 658 13- 32- 595 14- 41- 541 ++ 32- 522 ++ 28- 508		250	10226	59-
CRAWLEY 03774	02 656++	015 997 809	982 ++ 05 938 ++ 05 914 ++ 01 841 02 01- 759 04- 06- 747 01- 07- 730 ++ 12- 717 02- 15- 550 16- 28- 456	982 ++ 05 938 ++ 05 914 ++ 01 841 02 01- 759 04- 06- 747 01- 07- 730 ++ 12- 717 02- 15- 550 16- 28- 456		237	10680	61-
	02 51500	018 001 877	955 07 03- 829 ++ 07- 826 04- 07- 794 04- 16- 774 ++ 19- 747 ++ 19- 696 11- 15- 673 09- 13- 673 09- 13-	955 07 03- 829 ++ 07- 826 04- 07- 794 04- 16- 774 ++ 19- 747 ++ 19- 696 11- 15- 673 09- 13- 673 09- 13-		261	10000	57-
CAMBORNE 03808	02 10930	017 006 815	937 05 01 932 ++ 01 928 ++ 02- 914 ++ 03- 890 ++ 01- 873 04 02- 780 03- 06- 765 01- 08- 698 04- 12- 647	937 05 01 932 ++ 01 928 ++ 02- 914 ++ 03- 890 ++ 01- 873 04 02- 780 03- 06- 765 01- 08- 698 04- 12- 647		247	10400	58-
	58 3732+	019 009 868	990 06 04 951 03 01 927 04 02 892 01 00 757 06- 08- 668 10- 12- 649 12- 15- 638 11- 15- 595 ++ 30- 578	990 06 04 951 03 01 927 04 02 892 01 00 757 06- 08- 668 10- 12- 649 12- 15- 638 11- 15- 595 ++ 30- 578		249	10300	56-
VALENTIA 03953	02 48500	022 020 850	020 10 05 825 02- 06- 770 08- 09- 729 11- 19- 714 07- 20- 650 08- 25- 374 37- 43- 254 58- 219 51- 104	020 10 05 825 02- 06- 770 08- 09- 729 11- 19- 714 07- 20- 650 08- 25- 374 37- 43- 254 58- 219 51- 104		254	10200	58-
	02 32500	025 023 895	984 08 02 895 00 02- 865 02- 04- 827 01- 09- 736 08- 20- 676 11- 23- 643 11- 23- 551 20- 32- 347 42- 256	984 08 02 895 00 02- 865 02- 04- 827 01- 09- 736 08- 20- 676 11- 23- 643 11- 23- 551 20- 32- 347 42- 256		256	10100	54-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 62501	031 031 935	031 08 03 930 01- 01- 876 ++ 16- 853 05- 19- 833 04- 20- 800 ++ 26- 708 12- 26- 673 12- 26- 620 15- 22-	031 08 03 930 01- 01- 876 ++ 16- 853 05- 19- 833 04- 20- 800 ++ 26- 708 12- 26- 673 12- 26- 620 15- 22-		248	10400	59-
	02 685+1	031 031 938	879 05- 06- 859 03- 13- 853 ++ 18- 812 07- 24- 781 07- 24- 749 07- 19- 735 07- 18- 683 10- 20- 634 10- 21-	879 05- 06- 859 03- 13- 853 ++ 18- 812 07- 24- 781 07- 24- 749 07- 19- 735 07- 18- 683 10- 20- 634 10- 21-		217	11300	63-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 32500	029 029 887	029 10 05 940 ++ 03 870 01- 03- 834 ++ 04- 791 07- 09- 770 ++ 16- 729 03- 18- 690 25- 648 09- 19- 602 ++	029 10 05 940 ++ 03 870 01- 03- 834 ++ 04- 791 07- 09- 770 ++ 16- 729 03- 18- 690 25- 648 09- 19- 602 ++		249	10500	55-
	02 18500	031 031 871	966 05 01 544 ++ 07- 884 ++ 10- 795 04- 14- 730 04- 23- 677 07- 18- 632 07- 22- 505 17- 32- 268 50- 212	966 05 01 544 ++ 07- 884 ++ 10- 795 04- 14- 730 04- 23- 677 07- 18- 632 07- 22- 505 17- 32- 268 50- 212		212	11600	60-

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb °C °C	850mb °C °C	800mb °C °C	750mb °C °C	700mb °C °C	650mb °C °C	600mb °C °C	550mb °C °C	500mb °C °C
261127	56.6 N 04.7 E	016 009 930	061 05 00	131	02 01-	978 02- 05-	1430 05- 08-	1902 09- 38-	12- 32-	2923 15- 42-				
Cloud :— 2/8 Cu 1500 to 3000 ft. 3/8 Cu 1500 to 5000 ft. 1/8 Cu 1500 to 9000 ft.														
Inversion Levels :— Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb °C °C	850mb °C °C	800mb °C °C	750mb °C °C	700mb °C °C	650mb °C °C	600mb °C °C	550mb °C °C	500mb °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	24300m 070 07	
STORNOWAY 03026	056mb 050 06 19100m 360 06 05770/0 11840/1 037mb 060 02 01383/5 05760/0 07010/0 09850/1 10410/1 12990/1	360 103 08070m 350 90 08630m
SHANWELL 03170	075mb 290 03 17400m 330 05 03710/1 07590/0 08470/1 08910/1	350 64 08240m
ALDERGROVE 03917	18000m 250 07 22000m 070 09 335mb 360 57 P25500m 110 12 09500/1	270 61 08870m 010 63 08470m 010 87 08900m
AUGHTON 03322	087mb 260 06 20400m 130 03	250 61 08290m
HEMSBY 03496	02550/5 02950/5 10400/1 651mb 310 10 P19250m 220 03 02550/5 05820/0	
CRAWLEY 03774	01940/5 02710/5 28800m 090 09 33000m 130 23 34800m 140 09 02480/5 03670/5	
CAMBORNE 03808	286mb 270 16 056mb 080 05 22500m 090 08 P26400m 100 07 26700m 090 09 21000m 110 03 02390/5 02760/5 03160/0	
VALENTIA 03953	770mb 050 07 729mb 350 07 650mb 310 17 254mb 290 35 104mb 300 10 060mb 030 03 895mb 050 23 736mb 050 20 643mb 010 25 256mb 020 59 125mb 340 12 053mb 080 05	030 77 09470m
Ocean Weather Station 'I' 59°00'N 19°00'W	080mb 35008 189mb 330 49 118mb 320 21 060mb 000 00 11400m 330 72 12300m 330 42 19200m 310 09 07600/0 10950/1 11400/1 12210/1	020 82 09920m 340 66 10770m 340 100 11130m 320 96 10770m
Ocean Weather Station 'J' 52°30'N 20°00'W	772mb 040 14 074mb 36012 16500m 020 14 175mb 360 45 24600m 120 11 12000/1	330 79 09780m 030 88 10000m 010 92 10860m 030 82 11300m
LARKHILL 03743	02200/8 02580/8	

NOTES ON THE AEROLOGICAL SITUATION

The trough from Labrador to the Great Lakes is slow moving while the trough east of Newfoundland continues to move eastwards. The ridge over mid-Atlantic and Greenland is moving east very slowly. The trough extending southwest from west of Norway, across the British Isles and embracing the old cut-off low west of Portugal is moving slowly southeast. The low over northwest Russia is moving steadily northeast. The ridge and trough features over southern Europe are making slow eastward progress.

AVERAGE AND EXTREME VALUES 1951-55
MAY

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	22145 -50.1	-46 -55	102 2 (10)
60	19500 -50.3	-43 -60	102 2 11
100	16180 -51.4	-44 -62	283 3 13
150	13540 -51.0	-42 -62	288 7 19
200	11680 -53.8	-39 -69	288 10 27
300	9070 -48.8	-37 -56	281 11 36
400	7125 -35.0	-27 -49	282 10 32
500	5530 -23.2	-15 -38	283 8 26
700	2985 -7.0	1 -20	289 4 20
850	1450 0.9	11 -10	310 2 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100 -52.2	-50 -58	85 9 11
60	19480 -52.8	-46 -62	69 1 10
100	16195 -53.8	-44 -61	284 5 14
150	13590 -53.3	-46 -65	284 10 22
200	11750 -55.3	-42 -67	282 15 34
300	9140 -47.7	-38 -56	274 15 45
400	7180 -33.4	-23 -48	270 13 38
500	5580 -21.4	-11 -34	267 11 31
700	3015 -5.3	6 -16	258 7 23
850	1470 3.0	15 -6	254 5 20

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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	...	...	180 2 8
60	19500 -59.3	-57 -66	270 6 10
100	16315 -60.2	-51 -67	270 24 26
150	13775 -59.1	-49 -71	275 40 43
200	11970 -58.9	-48 -67	275 48 53
300	9355 -43.8	-39 -49	275 42 50
400	7365 -28.2	-23 -38	275 34 40
500	5720 -16.0	-12 -28	275 27 32
700	3095 2.2	9 -9	275 16 23
850	1500 12.2	24 2	275 9 16

Tropopause	Average Press. Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb. 117 -65.1	mb. ...	mb. 80	°C ...	°C -71
Lower	199 -60.9	365	...	-41	...

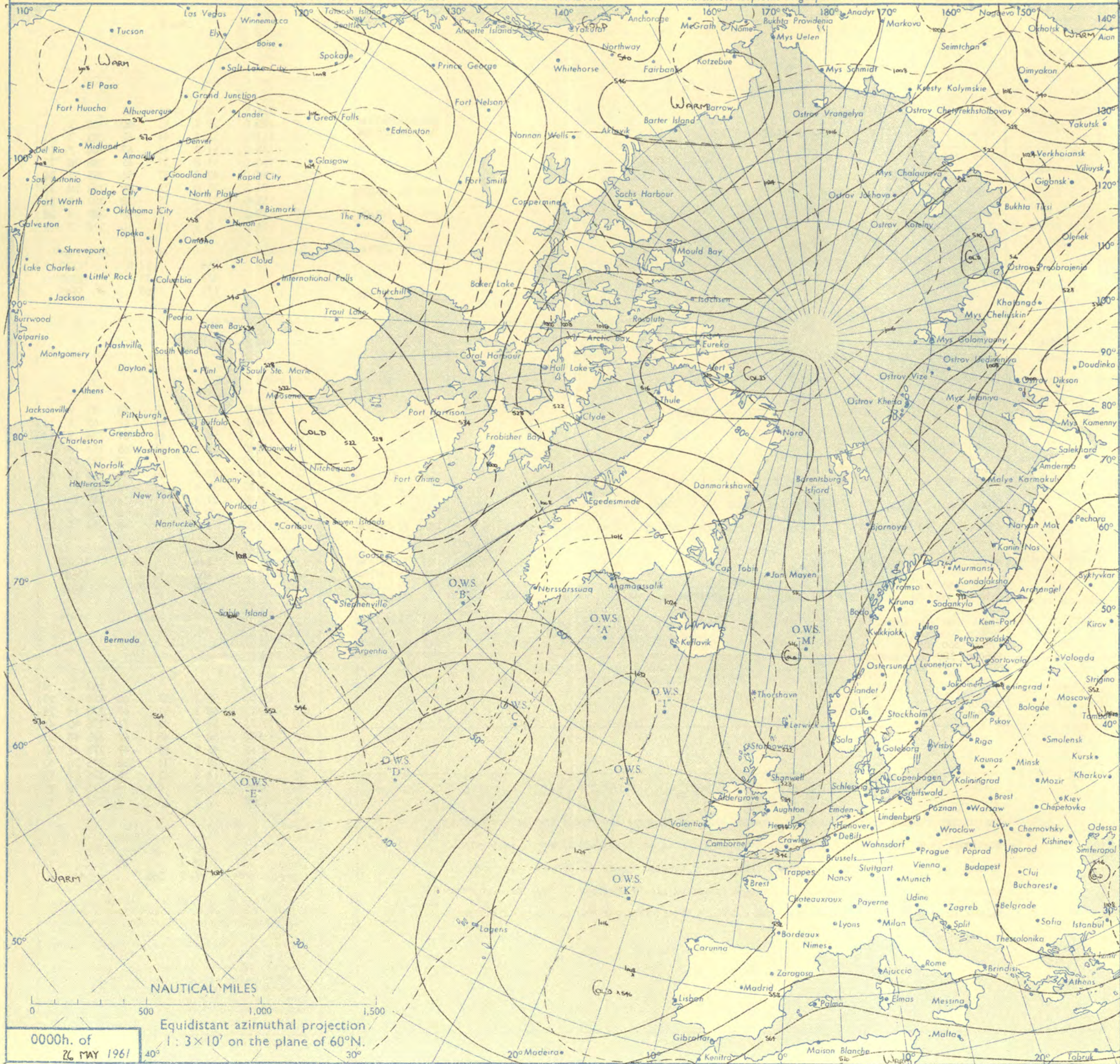
* V_R = Vector average wind. V_S = average wind speed.
Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† 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

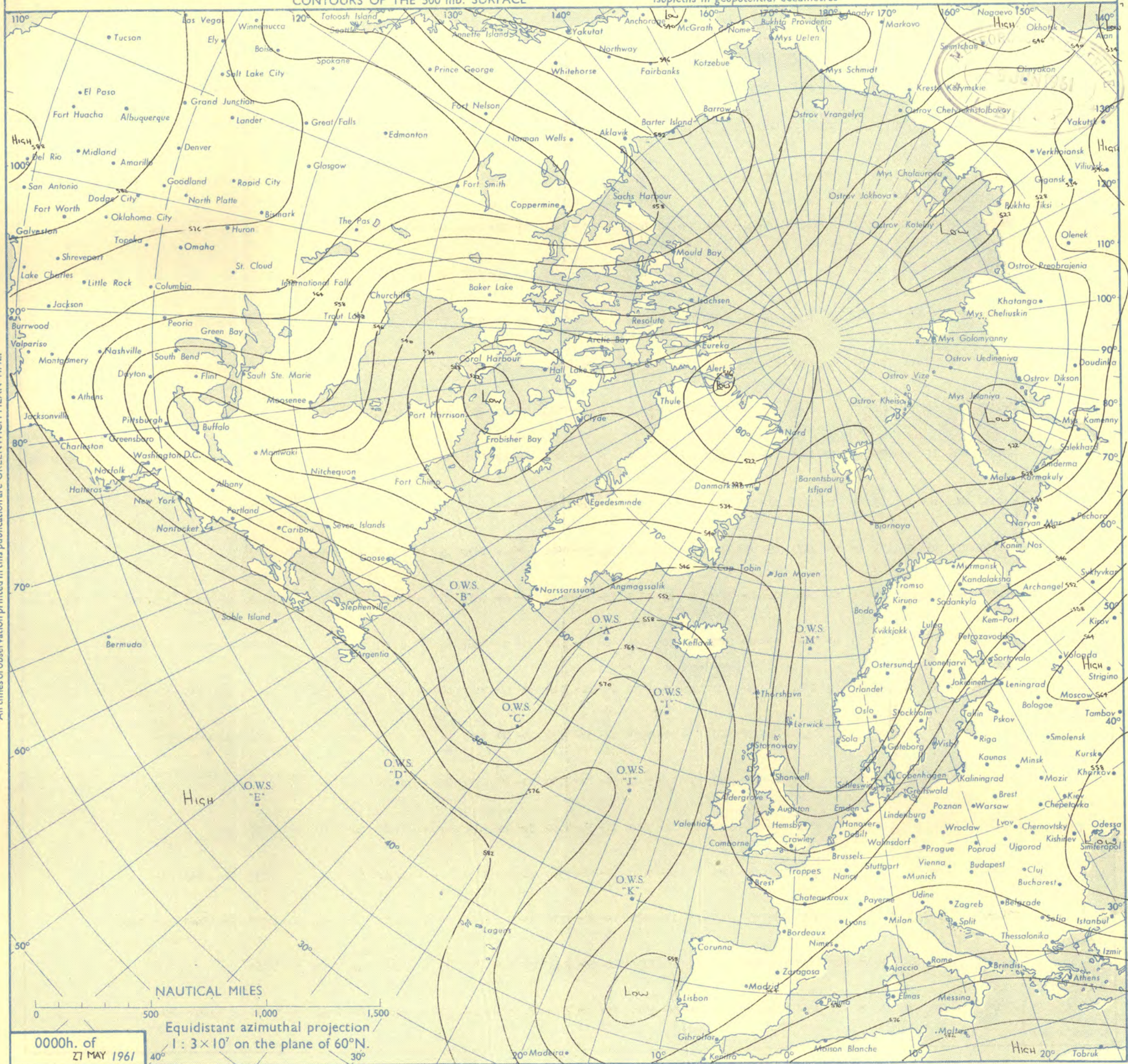
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



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	gpm °C °C
LERWICK 03005	262330	082 03 02 164 03 00 1459 07- 11- 2942 18- 22- 5372 34- 43- 6910 42- ++ 8834 45- ++ 11555 45- 13475 46- 16150 50- 18479 50- 20678 50-													
	271130	082 08 01- 161 07 01- 1460 06- 08- 2958 14- 29- 5453 26- 46- 7038 35- ++ 8988 47- ++ 11680 46- 13593 48- 16253 50- 18578 51-													
STORNOWAY 03026	262330	013 01 02- 213 03 03- 1507 06- 13- 2998 15- 23- 5494 26- 39- 7075 36- 45- 9024 48- ++ 11690 47-													
	271134	013 11 01- 211 07 01- 1516 05- 12- 3018 10- 19- 5541 23- 31- 7139 33- 40- 9099 48- ++ 11713 51- 13581 52- 16210 52- 18522 51- 20708 50-													
SHANWELL 03170	262330	005 04 01- 196 04 03- 1495 05- 11- 2991 15- 24- 5466 29- 37- 7030 39- 48- 8969 44- ++ 11698 44- 13626 46- 16304 49- 18641 50-													
	271130	005 12 03- 191 08 06- 1499 04- 10- 2990 17- 20- 5467 27- 38- 7047 36- 46- 8987 48- ++ 11674 46- 13582 48- 16242 51- 18573 50- 20779 49- 24149 47-													
ALDERGROVE 03917	262330	077 06 03 207 05 01 1151 04- 06- 3016 14- 17- 5511 24- 47- 7107 34- ++ 9072 47- ++ 11737 48- 13637 46- 16305 50- 18638 50- 20831 51- 24175 51-													
	271130	077 10 01 204 08 02- 1518 04- 08- 3032 10- 32- 5566 24- 31- 7164 34- 43- 9124 48- ++ 11767 49- 13646 50- 16299 51- 18624 51- 20812 51-													
AUGHTON 03322	262330	056 05 00 196 07 02- 1503 04- 07- 2997 15- 22- 5457 31- 36- 7015 39- 49- 8964 45- ++ 11677 45- 13594 47- 16261 49- 18594 50- 20784 51- 24124 50-													
	271205	056 11 01 193 09 02- 1504 04- 08- 3000 14- 22- 5488 27- 39- 7064 37- 47- 9002 48- ++ 11694 45- 13605 47- 16278 48- 18612 50- 20809 50- 24159 49-													
HEMSBY 03496	262330	012 06 01 167 06 02- 1472 05- 10- 2971 12- 32- 5470 28- 46- 7040 38- ++ 8980 46- ++ 11694 44-													
	271130	012 09 02 171 06 00 1473 05- 09- 2967 16- 22- 5413 35- 39- 6940 42- ++ 8890 41- ++ 11635 44- 13550 48-													
CRAWLEY 03774	262330	144 05 00 179 05 01- 1486 04- 10- 2993 11- 21- 5509 25- 37- 7090 36- 46- 9037 47- ++ 11720 46- 13633 48- 16301 49- 18633 51- 20819 51- 24134 51-													
	271138	144 10 03- 179 09 03- 1492 05- 08- 2987 15- 20- 5464 28- 43- 7030 39- 50- 8967 45- ++ 11691 44- 13608 47- 16289 48- 18621 50- 20807 52-													
CAMBORNE 03808	262330	088 07 04 184 09 04 1504 01- 06- 3018 09- 23- 5550 24- 36- 7144 34- 46- 9103 48- ++ 11739 48- 13628 49- 16283 50- 18609 51- 20799 51- 24113 51-													
	271130	088 12 03 208 09 01 1526 02- 13- 3033 13- 18- 5557 23- 38- 7154 35- 48- 9097 50- ++ 11747 48- 13637 50- 16281 51- 18596 52- 20767 52-													
VALENTIA 03953	262333	014 07 01 223 06 00 1533 04- 09- 3043 11- 23- 5580 20- 29- 7190 33- 38- 9150 50- ++ 11760 52-													
	271140	014 11 07 229 08 04 1541 03- 05- 3057 07- 17- 5610 21- 34- 7230 31- 42- 9220 44- ++ 11840 54- +++++ ++ 16290 53-													
Ocean Weather Station 'I' 59°00'N 19°00'W	270001	08 01 239 05 00 1547 01- 06- 3086 06- 16- 5670 17- 18- 7310 26- 27- 9320 42- ++ 11930 63- 13740 57- 16330 53- 18640 52-													
	271200	10 07 198 08 05 1515 02- 05- 3063 05- 17- 5670 15- 20- 7330 25- 32- 9360 39- 45- 12020 58- 13800 56- 16390 55- 18680 54- 20850 53-													
Ocean Weather Station 'J' 52°30'N 20°00'W	262300	11 03 258 08 02 1575 01- 08- 3113 04- 18- 5730 14- 28- 7380 27- 34- 9390 44- ++ 11990 64- 13780 57- 16360 55-													
	271100	12 07 248 09 03 1566 01- 10- 3111 03- 16- 5720 15- 23- 7370 26- 32- 9380 42- ++ 12000 62- 13760 59- 16310 57- 18580 57-													

STATION	ww N _h C _L hC _M C _H	PRESSURE			TROPOPAUSE			
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	25 43500	020	010	937	996 03 00 835 ++ 11- 784 ++ 16- 665 21- 25- 636 ++ 27- 608 ++ 33- 589 ++ 33- 522 33- 43- 431 39- 50- 376 45- 325 46- 245 43- 100 50- 050 50-	376	07310	45-
	02 525++	020	010	931	955 02 04- 900 ++ 05- 796 10- 12- 766 09- 21- 703 14- 29- 634 17- 37- 433 32- 50- 383 37- 332 45- 280 48- 258 46- 242 48- 176 45- 144 49- 100 50- 058 52-	280	09450	48-
STORNOWAY 03026	02 15600	027	025	954	013 04 02- 888 05- 10- 853 06- 13- 832 ++ 15- 814 ++ 14- 713 15- 22- 680 ++ 24- 650 ++ 24- 612 18- 31- 524 24- 38- 359 40- 48- 285 50- 214 47- 172 48-	285	09350	50-
	03 38504	026	024	920	020 09 01- 938 ++ 03- 903 01- 10- 831 07- 12- 818 ++ 12- 780 10- 14- 757 ++ 19- 734 09- 19- 689 10- 19- 554 20- 26- 502 23- 31- 470 ++ 31- 384 ++ 42- 350 40- 45- 274 53- 246 56- 207 51- 072 51- 037 50-	246	10370	56-
SHANWELL 03170	02 15500	025	024	930	002 ++ 03- 980 ++ 03- 929 00 07- 829 ++ 11- 807 ++ 13- 765 ++ 14- 732 13- 20- 715 ++ 23- 670 ++ 27- 610 20- 31- 517 29- 36- 493 29- 37- 419 38- 47- 352 43- 309 45- 242 42- 100 49- 057 50-	352	07900	43-
	02 625++	023	023	903	004 08 06- 794 09- 13- 647 21- 24- 608 ++ 28- 565 22- 33- 377 39- 50- 326 46- 301 48- 183 45- 163 48- 100 51- 030 47- Pressure doubtful above 200mb.	301 163	08970 13020	48- 48-
ALDERGROVE 03917	80 785++	026	016	914	008 06 02 900 01- 03- 845 04- 06- 670 16- 19- 620 ++ 26- 603 ++ 26- 586 22- 29- 548 ++ 40- 513 23- 46- 464 27- 50- 411 33- ++ 346 40- 271 51- 217 48- 169 49- 159 45- 113 50-	271	09710	51-
	03 51600	025	015	894	007 08 02- 884 ++ 03- 835 ++ 09- 815 ++ 07- 806 07- 10- 790 06- 14- 772 ++ 23- 682 ++ 33- 566 18- 27- 515 ++ 29- 490 ++ 34- 468 ++ 34- 445 ++ 40- 348 40- 49- 303 47- 266 52- 208 49- 138 51- 120 48- 110 50- 051 51- 035 48-	266	09900	52-
AUGHTON 03322	02 456++	024	017	903	010 08 01 006 ++ 02- 847 05- 08- 758 12- 15- 722 13- 19- 630 ++ 27- 622 22- 29- 602 22- 32- 588 ++ 35- 564 26- 33- 548 ++ 33- 512 30- 34- 460 33- 42- 411 38- 49- 353 41- 274 47- 261 45- 182 45- 088 50- 030 50-	274	09560	47-
	02 625++	023	017	903	993 08 03- 917 01 05- 753 12- 14- 738 ++ 15- 712 13- 20- 693 ++ 22- 659 16- 26- 625 17- 28- 591 21- 32- 507 27- 39- 377 40- ++ 306 48- 188 45- 110 49- 079 51- 030 49- Pressure doubtful above 100mb.	306	08880	48-
HEMSBY 03496	02 43500	021	019	921	012 ++ 03- 006 07 01- 950 ++ 02- 920 00 04- 904 ++ 07- 865 04- 07- 841 ++ 11- 812 ++ 10- 791 10- 12- 760 10- 22- 741 ++ 28- 677 13- 36- 430 35- 49- 315 47- 227 43- 195 44-	315	08630	47-
	25 43503	021	019	930	012 07 00 932 00 03- 903 ++ 07- 842 ++ 10- 762 11- 15- 743 ++ 21- 708 ++ 20- 647 20- 31- 530 31- 35- 450 40- 44- 411 42- 280 40- 133 48-	411	06750	42-
CRAWLEY 03774	02 00900	022	004	911	981 05 01- 797 08- 13- 738 ++ 08- 616 15- 27- 420 34- 44- 365 40- 50- 345 43- 293 48- 174 45- 146 48- 030 51- Pressure suspect above 100mb.	293	09170	48-
	03 627++	022	004	899	940 ++ 05- 869 03- 07- 770 11- 13- 750 ++ 15- 670 ++ 21- 653 ++ 27- 629 ++ 33- 595 22- 32- 551 24- 40- 420 ++ 50- 395 40- 348 44- 316 45- 245 43- 159 47- 101 48- 086 51- 037 50-	348	07960	44-
CAMBORNE 03808	02 11601	023	012	869	003 09 04 960 06 02 838 02- 07- 769 09- 13- 750 09- 18- 715 09- 22- 645 12- 28- 599 15- 29- 548 21- 31- 538 20- 32- 450 29- 46- 358 39- 50- 274 52- 254 54- 200 48- 120 50- 030 51-	254	10180	54-
	02 11601	025	014	882	997 09 01 947 ++ 01 921 03 03- 843 ++ 15- 804 ++ 14- 685 14- 20- 626 14- 25- 532 20- 36- 383 37- 50- 290 52- 203 48- 163 48- 142 51- 106 51- 057 53- 045 51-	290 142	09310 13980	52- 51-
VALENTIA 03953	01 22505	026	026	900	955 04 02- 830 05- 10- 779 08- 15- 755 08- 17- 711 10- 23- 660 13- 22- 631 13- 21- 585 16- 23- 560 16- 24- 511 19- 28- 341 41- 294 52- 255 55- 199 52- 143 52-	255	10100	55-
	02 725++	028	026	900	944 03 01 835 04- 06- 734 09- 13- 708 07- 16- 670 07- 24- 516 21- 34- 486 21- 34- 400 31- 43- 236 55- 212 56- 200 54- 097 53- 071 57- 041 59-	236	10800	55-
Ocean Weather Station 'I' 59°00'N 19°00'W	03 1561+	029	029	931 863	917 01- 03- 880 01 03- 831 01- 07- 800 01- 15- 757 ++ 20- 737 03- 16- 672 08- 18- 656 07- 17- 590 14- 18- 570 ++ 18- 561 11- 17- 410 25- 27- 313 40- 44- 200 63- 170 57- 060 51-	200	11930	63-
	02 3567-	024	024	878 774	962 05 02 930 03 02- 870 ++ 02- 850 02- 05- 834 02 03- 785 ++ 14- 757 01- 15- 682 06- 16- 663 ++ 07- 654 04- 07- 461 18- 24- 412 ++ 31- 295 40- 46- 177 64- 164 64- 147 55- 060 54- 040 49-	177	12800	64-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 15701	031	031	871	948 04 00 929 ++ 04- 854 01- 07- 821 ++ 11- 800 ++ 09- 791 04- 11- 777 02- 15- 608 06- 24- 565 10- 26- 520 12- 29- 485 16- 27- 428 23- 31- 318 40- 46- 283 47- 195 65- 167 57-	195	12100	65-
	01 15602	030	030	886	009 ++ 03 998 08 02 950 ++ 01 892 00 04- 880 ++ 04- 862 01- 08- 818 01- 21- 735 01- 11- 676 04- 21- 551 ++ 31- 538 11- 27- 498 ++ 23- 389 27- 33- 366 32- 39- 312 40- 46- 233 56- 180 67- 167 67- 154 59- 091 56- 061 56- 054 54-	180	12600	67-

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
271336	58.2°N	26.7°W	016	009	728	061	08 03	131	06 01	994 05 07	1457 05 08	1954 03 14	01 28	3027 02 40	06 42	4234 08 47	13 44	5617 20 43	
Cloud :— 6/8Sc. 1100 to 1800ft. 4/8Sc. 2800 to 3400ft.																			
Inversion Levels :— Isothermal Levels :— 900mb to 850mb 04½°C; 962mb to 950mb 05½°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
271459	6018°N	20.8°W	017	009	750	061	08 05	137	06 06	003 04 04	1463 01 08	1954 04 17	00 10	3024 02 06	05 11	4237 08 14	12 16	5630 16 17	
Cloud :— 4/8Sc. 1200 to 4000ft; 3/8Ac. 13000 to 15000ft; 7/8Ac. 16000 to HNG.																			
Inversion Levels :— 850mb to 800mb. 00½°C. to 03½°C. Isothermal Levels :— 963mb to 950mb. 06°C.																			
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UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	491mb 350 19 272mb 360 46 053mb 040 05 17100m 360 12 062mb 090 12 19200m 010 07 10450/1 10850/1	360 78 07850m 360 82 07970m 010 110 08710m 010 127 09320m
STORNOWAY 03026	17000m 350 10 03300/0 04090/0 06050/0 08390/0 09760/1 10710/1 236mb 010 92 040mb 090 08 17000m 020 10 07750/0 10650/1 11650/1	360 93 09790m 360 105 09500m 010 120 09940m 010 95 10470m
SHANWELL 03170	340mb 360 85 05700/0 10930/1 09830m 010 122 22180m 080 14 00720/8 06480/0 07280/0 08100/0 09830/1 10230/1 10650/1	360 87 08270m 010 79 08150m 010 97 08810m 020 129 09680m
ALDERGROVE 03917	036mb 110 10 10920/1 137mb 020 23 11230m 020 70 03900/6 10550/1 11000/1 11520/1	360 73 08020m 010 100 09370m 020 113 09530m 020 112 10300m
AUGHTON 03322	P25500m 070 08 04410/0 04740/0 09300/1 10160/1 10510/1	010 76 08550m 010 92 08700m
HEMSBY 03496	438mb 230 38 206mb 260 18 03910/5 14800m 350 06	220 70 08100m
CRAWLEY 03774	28800m 090 16 33000m 110 22 35700m 110 08 27600m 100 05	
CAMBORNE 03808	P21900m 120 05 15300m 350 05 17700m 180 06	
VALENTIA 03953	944mb 320 15	
Ocean Weather Station 'I' 59°00'N 19°00'W	191mb 340 54 065mb 330 03 12600m 350 38 03680/3 18280/2 042mb 000 00	340 78 12020m
Ocean Weather Station 'J' 52°30'N 20°00'W	02700m 350 04 13200m 030 47 15300m 020 25 09700/1 168mb 030 27 083mb 030 14 060mb 050 11 12600m 020 08 18000m 010 07 08150/2 12700/2	030 65 11880m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The trough over eastern America has moved slowly east and deepened further, whilst a strong southwesterly stream has developed on its forward side. The trough east of Newfoundland has advanced northeast and the ridge near Iceland has weakened slightly. The trough over the British Isles has moved slowly southeast and has deepened, the air over eastern England being quite exceptionally cold for late May. The cut-off low west of Portugal has been slow-moving. The ridge over the central Mediterranean has moved east, whilst the weak block over western Russia has been maintained.

AVERAGE AND EXTREME VALUES 1951-55
MAY

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	22145	-50.1	-46	-55	...	(10)
60	19500	-50.3	-43	-60	102	2
100	16180	-51.4	-44	-62	283	3
150	13540	-51.0	-42	-62	288	7
200	11680	-53.8	-39	-69	288	10
300	9070	-48.8	-37	-56	281	11
400	7125	-35.0	-27	-49	282	10
500	5530	-23.2	-15	-38	283	8
700	2985	-7.0	1	-20	289	4
850	1450	0.9	11	-10	310	2

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9
60	19480	-52.8	-46	-62	69	1
100	16195	-53.8	-44	-61	284	5
150	13590	-53.3	-46	-65	284	10
200	11750	-55.3	-42	-67	282	15
300	9140	-47.7	-38	-56	274	15
400	7180	-33.4	-23	-48	270	13
500	5580	-21.4	-11	-34	267	11
700	3015	-5.3	6	-16	258	7
850	1470	3.0	15	-6	254	5

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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	...	...	...	...	180	2
60	19500	-59.3	-57	-66	270	6
100	16315	-60.2	-51	-67	270	24
150	13775	-59.1	-49	-71	275	40
200	11970	-58.9	-48	-67	275	48
300	9355	-43.8	-39	-49	275	42
400	7365	-28.2	-23	-38	275	34
500	5720	-16.0	-12	-28	275	27
700	3095	2.2	9	-9	275	16
850	1500	12.2	24	2	275	9

Tropopause	Average Press.	Average Temp.	Max. Press.	Max. Temp.	Min. Press.	Min. Temp.
Upper	117	-65.1	...	80	...	-71
Lower	199	-60.9	365	...	-41	...

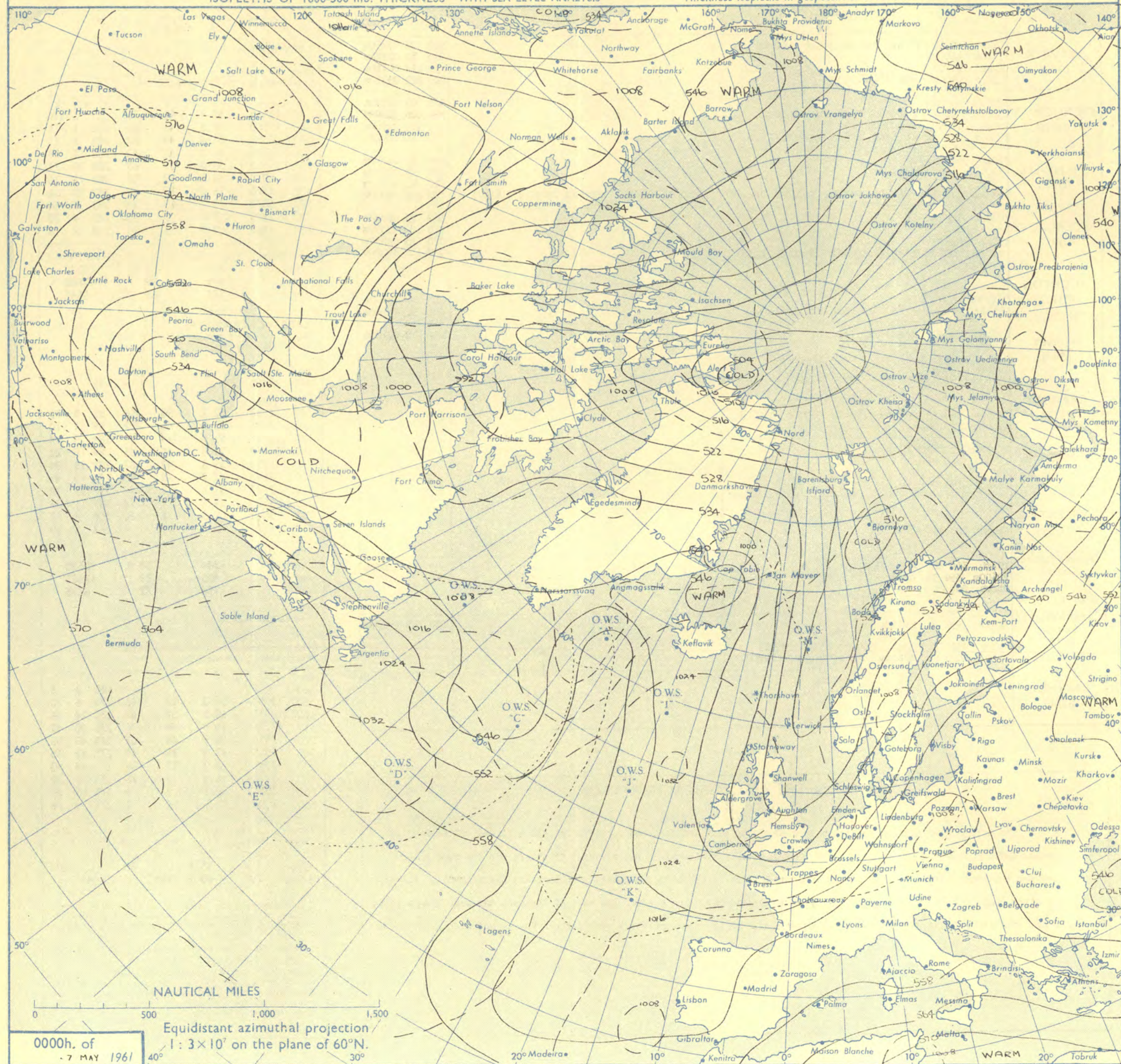
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† 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

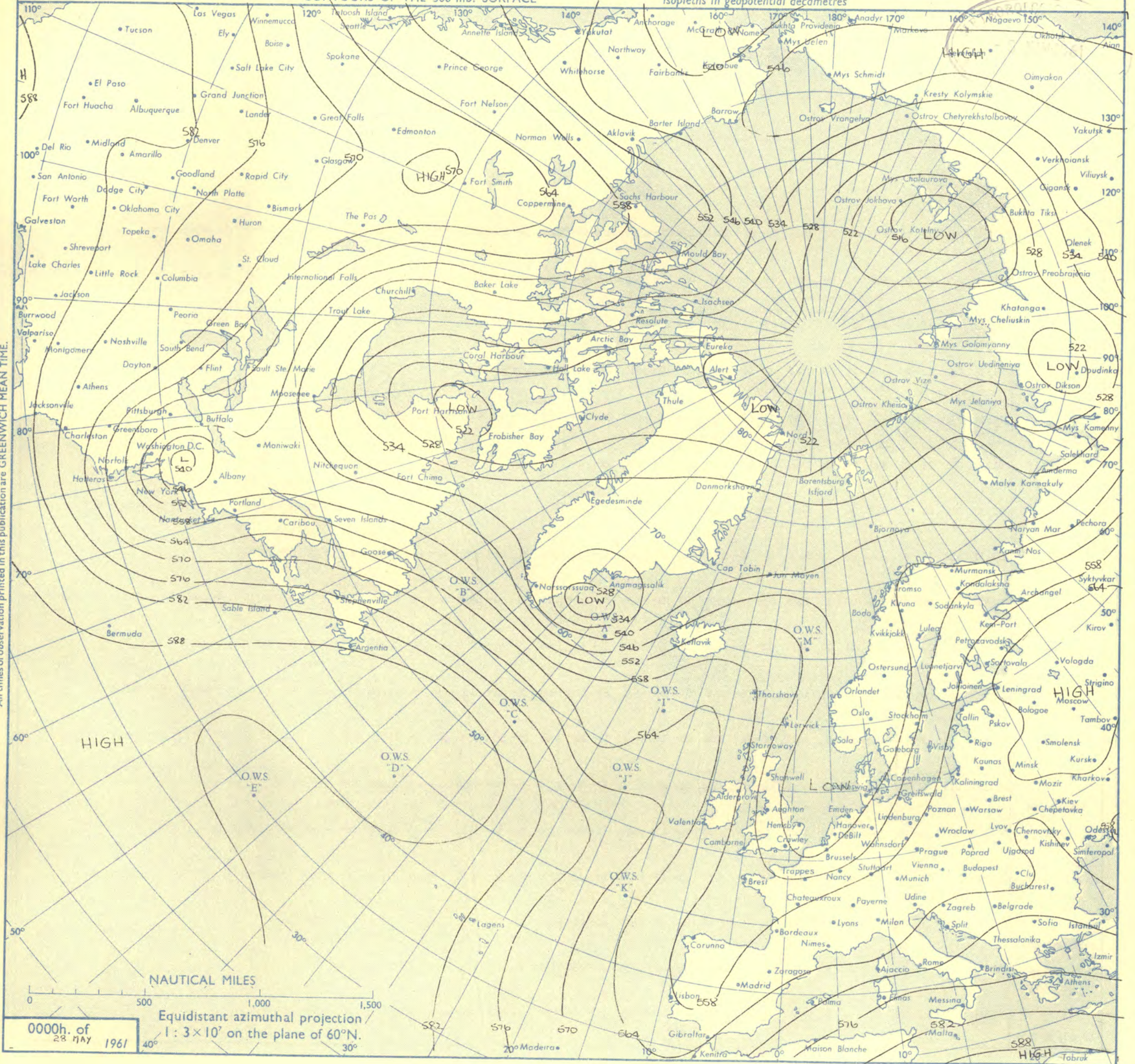
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



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	272333	082	02	00	166	04	01	1465	05-	11-	2978	09-	27-	5519	22-	34-	7134	30-	34-	9129	43-	++	11774	52-	13650	50-	16304	50-	18640	50-	20837	50-	24188	49-						
	281130	082	09	01	136	08	01	1435	03-	14-	2955	09-	27-	5500	20-	25-	7121	32-	41-	9089	47-	++	11718	51-	13602	50-	16246	51-	18565	51-	20751	51-	24062	54-						
STORNOWAY 03026	272330	013	07	05	190	07	04	1503	02-	07-	3026	08-	22-	5593	16-	20-	7238	27-	32-	9259	40-	48-	11914	58-	13733	54-	16358	51-	18673	51-	20860	51-								
	281143	013	09	04	135	07	03	1446	04-	06-	2965	10-	12-	5546	16-	22-	7183	29-	33-	9187	42-	++	11828	56-	13684	51-														
SHANWELL 03170	272330	005	07	04	175	06	02	1483	03-	05-	2987	12-	21-	5513	22-	38-	7123	31-	43-	9113	43-	++	11752	51-	13627	50-	16269	51-	18585	51-										
	281130	005	11	01	148	07	00	1456	04-	08-	2970	09-	27-	5525	19-	23-	7152	30-	35-	9148	43-	++	11785	56-	13648-	51-	16298	50-	18619	50-	20810	51-	24157	48-						
ALDERGROVE 03917	272330	077	03	01	194	05	00	1505	03-	13-	3031	07-	17-	5589	20-	24-	7216	28-	31-	9226	42-	++	11858	57-	13713	51-	16347	51-	18657	52-	20837	51-	24181	49-						
	281130	077	12	03	148	10	03	1468	02-	06-	2991	08-	19-	5576	17-	23-	7208	29-	37-	9203	44-	++	11813	57-	13683	49-	16348	48-	18716	44-										
AUGHTON 03322	272330	056	06	03	180	09	03	1497	03-	08-	2999	14-	21-	5495	25-	38-	7086	33-	45-	9063	44-	++	11741	47-	13637	48-	16295	51-	18618	52-	20800	51-								
	281130	056	11	02	148	09	00	1464	02-	06-	2975	10-	26-	5520	21-	31-	7144	29-	37-	9139	43-	++	11782	53-	13652	49-	16313	49-												
HEMSBY 03496	272330	012	04	03	159	05	00	1464	05-	09-	2959	16-	23-	5397	36-	41-	6926	40-	46-	8899	39-	++	11664	42-	13590	46-	16261	49-	18592	51-	20773	52-								
	281130	012	10	03	141	07	01-	1450	04-	10-	2951	14-	22-	5411	33-	45-	6986	31-	48-	8984	41-	++	11720	44-	13639	47-	16308	49-												
CRAWLEY 03774	272330	144	02	01	175	03	01	1488	03-	11-	2993	14-	22-	5456	30-	40-	7011	39-	50-	8976	40-	++	11729	43-	13652	47-	16319	49-	18650	51-	20828	52-	24162	49-						
	281130	144	11	00	145	11	00	1470	02-	05-	2974	14-	17-	5440	29-	35-	7048	29-	40-	9052	40-	50-	11784	44-	13703	47-	16380	48-	18727	50-										
CAMBORNE 03808	272330	088	07	05	189	09	05	1507	01-	06-	3028	07-	18-	5571	23-	32-	7168	34-	41-	9133	46-	++	11771	51-	13658	49-	16304	51-	18620	52-	20799	52-								
	281130	088	11	05	162	10	04	1484	02-	06-	3006	08-	18-	5568	18-	24-	7206	27-	33-	9220	41-	++	11864	57-	13711	51-	16362	49-	18693	52-	20895	48-	24241	53-						
VALENTIA 03953	272330	014	09	07	211	07	05	1528	02-	05-	3059	06-	21-	5630	17-	20-	7270	26-	30-	9290	42-	++	11910	62-																
	281130	014	11	06	166	09	05	1485	01-	03-	3023	03-	15-	5640	13-	20-	7300	24-	30-	9330	39-	48-	11990	58-	++++	++	16450	51-												
Ocean Weather Station 'I' 59°00'N 19°00'W	272300		10	08	132	09	07	1464	03	02	3019	01-	11-	5630	14-	30-	7290	26-	34-	9310	41-	++	11940	60-	13760	53-	16350	54-	18650	52-	20820	53-								
	281100		09	08	012	09	08	1334	01	01-	2876	06-	26-	5450	20-	41-	7060	32-	50-	9030	44-	++	11760	45-	16380	46-														
Ocean Weather Station 'J' 52°30'N 20°00'W	272300		12	10	198	10	08	1527	02	01	3070	04-	12-	5670	16-	33-	7320	26-	43-	9340	43-	++	11950	63-																
	281100		11	11	126	10	08	1461	04	03	3026	02-	03-	5640	15-	19-	7300	26-	31-	9320	42-	++	11930	60-	13760	54-	16360	56-												

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	01 15500	021 011 932	997 05 01 989 ++ 01- 925 ++ 04- 892 ++ 08- 851 05- 09- 839 ++ 15- 819 05- 18- 751 08- 25- 690 10- 28- 643 13- 30- 531 19- 34- 479 24- 34- 426 27- 33- 387 32- 36- 368 33- 37- 328 40- 44- 251 51- 233 52- 216 56- 191 50- 100 50- 030 49-	216 11300 56-				
	02 2153+	016 006 936	990 05 02- 880 ++ 07- 874 05- 10- 857 03- 12- 808 ++ 21- 714 08- 26- 667 ++ 27- 579 16- 20- 543 17- 20- 516 20- 23- 489 20- 28- 347 40- 49- 256 53- 224 55- 189 49- 100 51- 034 51- 030 54-	224 11000 55-				
STORNOWAY 03026	01 68540	023 022 889	004 07 04 880 ++ 02- 855 ++ 06- 835 ++ 11- 810 05- 11- 775 05- 11- 730 ++ 18- 653 10- 22- 621 ++ 16- 595 ++ 16- 546 15- 18- 535 14- 17- 477 18- 23- 431 ++ 29- 351 33- 38- 336 34- 41- 298 40- 48- 192 59- 177 59- 161 55- 096 51- 045 51-	192 12170 59-				
	02 3557+	016 015 900	997 07 03 942 ++ 00 930 ++ 03- 893 ++ 03- 838 05- 07- 822 ++ 08- 813 03- 08- 798 ++ 09- 769 ++ 14- 722 ++ 12- 702 10- 12- 661 09- 11- 579 12- 14- 572 11- 13- 552 13- 15- 538 12- 16- 519 ++ 21- 421 26- 30- 313 40- 45- 212 58- 163 51- 109 50-	212 11480 58-				
SHANWELL 03170	21 756++	021 021 907	009 ++ 02 886 ++ 03- 796 07- 10- 741 12- 15- 695 12- 21- 670 13- 25- 609 16- 32- 515 21- 37- 454 27- 41- 396 31- 43- 330 39- 50- 230 56- 209 51- 134 50- 100 51- 067 51-	230 10870 56-				
	03 31501	018 018 910	004 07 02- 942 02 02- 878 ++ 07- 835 06- 09- 817 05- 17- 756 ++ 26- 665 10- 27- 590 ++ 30- 552 16- 21- 523 17- 20- 457 23- 25- 375 33- 39- 320 40- 46- 271 49- 214 56- 195 56- 187 52- 175 51- 100 50- 081 52- 068 50- 054 53- 046 48- 035 51- 030 48-	214 11340 56-				
ALDERGROVE 03917	01 15600	024 014 894	003 ++ 00 994 06 01 962 ++ 01- 937 ++ 10- 883 ++ 16- 843 03- 12- 800 05- 14- 779 03- 16- 684 ++ 18- 616 ++ 27- 604 14- 26- 579 ++ 24- 548 16- 25- 493 21- 25- 402 28- 31- 320 38- 43- 208 59- 182 52- 104 50- 095 52- 030 49-	208 11600 59-				
	02 785++	018 009 878	991 08 02 945 ++ 01 901 ++ 03- 825 04- 08- 782 06- 10- 768 ++ 16- 757 04- 16- 711 ++ 21- 700 08- 19- 662 ++ 13- 611 10- 16- 594 10- 16- 537 13- 19- 425 26- 33- 397 29- 37- 364 ++ 41- 240 55- 216 60- 192 53- 155 48- 124 50- 094 47- 060 41-	216 11350 60-				
AUGHTON 03322	02 21530	022 015 890	999 09 02 869 02- 05- 842 ++ 10- 814 ++ 12- 756 11- 15- 731 11- 17- 683 15- 22- 659 18- 24- 645 17- 26- 596 ++ 32- 329 40- ++ 277 48- 093 50- 048 52- 040 50-	257 10090 49-				
	02 325++	018 011 889	000 09 00 913 02 02- 884 ++ 03- 826 04- 09- 786 ++ 11- 773 ++ 14- 755 10- 14- 742 09- 21- 722 09- 23- 678 ++ 29- 580 15- 34- 529 19- 35- 478 ++ 30- 462 23- 30- 322 40- 48- 227 55- 154 49- 100 49-	227 10970 55-				
HEMSBY 03496	25 435++	019 018 926	005 05 01 991 05 01 900 02- 04- 775 ++ 17- 608 ++ 33- 568 ++ 33- 519 34- 38- 435 40- 46- 420 41- 337 38- 189 43- 139 48- 050 52-	420 06600 41-				
	02 62562	017 016 907	010 07 00 970 ++ 00 935 ++ 05- 855 04- 10- 785 08- 13- 770 09- 18- 654 ++ 27- 627 ++ 34- 567 ++ 42- 486 34- 46- 414 30- 47- 380 32- 49- 288 42- 080 51-	486 05600 34- 288 09230 42-				
CRAWLEY 03774	02 00900	022 004 890	978 06 02- 842 ++ 11- 782 ++ 17- 644 20- 27- 582 ++ 30- 512 29- 38- 412 39- 50- 290 40- 130 49- 055 53- 030 49-	412 06800 39-				
	80 695+3	018 000 871	839 ++ 06- 810 06- 11- 772 ++ 14- 723 13- 16- 615 20- 23- 590 24- 27- 555 ++ 31- 513 30- 35- 471 26- 34- 433 26- 37- 314 40- 50- 296 41- 270 44- 190 44- 108 49- 052 48-	270 09770 44-				
CAMBORNE 03808	02 21530	023 012 871	000 09 05 911 ++ 02 889 ++ 04- 872 ++ 06- 812 04- 06- 746 08- 10- 724 06- 16- 681 08- 19- 630 ++ 21- 553 18- 28- 349 40- 46- 316 43- 269 52- 157 48- 077 52- 045 51-	269 09850 52-				
	03 31530	020 009 873	922 03 02- 785 06- 08- 765 05- 17- 702 ++ 17- 625 12- 24- 584 13- 22- 536 17- 22- 521 17- 22- 427 24- 31- 381 30- 36- 307 40- 47- 275 46- 205 58- 142 49- 102 49- 058 50- 037 48- 030 53-	205 11700 58- 3030 +++++ 53-				
VALENTIA 03953	80 725++	025 024 880	790 05- 19- 775 02- 16- 669 07- 22- 602 13- 27- 561 15- 23- 519 15- 19- 467 21- 24- 451 21- 24- 363 30- 34- 300 42- 260 48- 200 62- 182 62- 169 56- 124 56-	200 11900 62-				
	25 785++	020 018 860	010 10 06 937 04 01 838 02- 04- 778 04- 06- 749 03- 15- 691 03- 15- 640 06- 16- 583 09- 14- 538 11- 16- 512 12- 19- 442 21- 27- 379 27- 33- 234 52- 190 60- 172 55- 148 51- 104 50- 091 52- 074 50- 063 50-	190 12300 60-				
Ocean Weather Station 'I' 59°00'N 19°00'W	03 7567+	016 016 811	016 10 08 952 ++ 07 934 06 05 879 05 04 853 ++ 02- 772 02- 02- 763 00 00 749 00 05- 740 00 08- 728 ++ 15- 715 ++ 11- 690 ++ 11- 682 02- 10- 672 ++ 08- 586 ++ 14- 571 11- 28- 556 10- 24- 537 ++ 20- 522 13- 21- 514 14- 25- 503 14- 28- 492 ++ 31- 462 19- 27- 413 ++ 31- 383 28- 36- 307 40- 50- 208 60- 188 61- 152 53- 102 52- 088 54- 078 51- 062 54- 035 49-	208 11700 60-				
	61 863++	001 001 830	988 07 05 925 04 02 769 03- 05- 759 02- 06- 726 04- 19- 710 05- 25- 566 14- 39- 345 40- 315 44- 216 42- 204 45- 102 49-	315 08700 44-				
Ocean Weather Station 'J' 52°30'N 20°00'W	21 855++	024 024 822	024 12 10 014 11 09 900 04 03 757 03- 04- 698 04- 15- 660 05- 13- 644 05- 21- 600 09- 20- 511 16- 30- 486 15- 34- 312 40- 186 56-	186 +++++ 56-				
	61 673++	015 015 753	894 05 04 865 05 04 632 07- 09- 619 06- 08- 442 20- 25- 308 40- 45- 207 62- 193 58- 148 53- 106 55- 074 51-	207 11700 62-				

UPPER WINDS AT STANDARD LEVELS

28 May, 1961

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	272333	T	340 07	+++ ++	360 05	340 04	010 16	010 21	010 32	010 46	010 63	360 85	360 89	010 48							
	280530	P	330 01	+++ ++	220 07	280 03	360 04	360 14	360 19	360 34	360 45	350 76	340 76	350 32	360 05	350 04	070 02	060 04	060 05		
	281130	T	230 10	+++ ++	220 05	220 03	340 04	330 02	330 04	360 28	360 37	340 61	340 68	340 28	330 06	060 03	180 04	120 02			
	281804	P	170 12	+++ ++	190 10	250 01	230 02	210 03	030 01	030 12	010 26	350 40	340 54	360 14	070 05	280 05	000 00	110 09	080 05		
STORNOWAY 03026	272330	T	000 00	+++ ++	340 15	340 17	350 15	340 16	350 20	010 46	360 54	360 65	360 68	360 60	360 28	010 08	030 07				
	280530	P	260 06	+++ ++	280 08	290 09	300 09	320 11	350 21	350 30	350 37	330 51	330 59	330 36	360 12	330 05					
	281143	T	190 14	+++ ++	210 16	220 15	250 11	270 06	280 09	330 12	310 21	310 38	300 42	300 38	310 11						
	281730	P	220 08	+++ ++	200 21	190 21	200 17	210 15	200 16	180 17	210 12	240 20	250 32	250 06	320 10	310 03					
SHANWELL 03170	272330	T	040 15	+++ ++	360 14	340 16	340 22	360 27	010 49	010 61	010 85	010107	020101	030 54	360 23	020 08					
	280530	P	000 00	+++ ++	340 10	350 12	010 15	010 23	010 36	010 44	010 71	360 82	360 77	010 51	010 21	010 07					
	281130	T	120 09	+++ ++	230 04	330 06	010 11	020 14	010 19	360 36	360 50	340 68	350 71	350 34	340 15	040 07	200 06	090 04	120 11	P160 04	
	281730	P	120 10	+++ ++	200 05	260 06	290 05	340 04	010 12	360 18	350 34	340 46	320 50	340 32	320 07						
ALDERGROVE 03917	272330	T	330 03	+++ ++	340 15	350 13	360 18	360 27	360 30	360 41	010 66	020 82	020 91	020 73	020 23	030 09	060 06	090 06	080 09		
	280530	P	210 07	+++ ++	350 12	350 09	330 12	340 14	350 23	010 42	010 54	360 63	360 64	010 42	020 14	020 06	360 05	080 10			
	281130	T	290 03	+++ ++	310 02	350 03	350 05	340 07	360 17	360 28	360 33	340 46	340 47	350 21	P340 12	340 10	090 05	110 08	110 09		
	281730	P	140 09	+++ ++	210 15	230 15	240 12	220 04	280 10	290 04	310 14	290 26	280 31	300 17	290 06	290 13	100 04	070 05	080 05	090 07	
AUGHTON 03322	272330	T	000 00	+++ ++	320 14	320 13	350 10	360 12	010 34	010 65	010 84	020118	020 98	010 39	020 22	050 08	100 07	020 05			
	280530	P	290 03	+++ ++	310 13	300 13	330 10	360 16	010 45	010 61	020 93	020 97	020 98	010 41	040 13	030 10	100 09	080 11	070 07		
	281130	T	250 08	+++ ++	280 05	040 07	350 12	360 20	010 34	010 43	010 59	360 78	360 77	360 41	360 12						
	281730	P	250 08	+++ ++	220 04	200 07	190 10	340 13	360 21	360 34	360 44	340 56	340 54	350 33	340 09	020 04	040 01	120 02	080 08		
HEMSBY 03496	272330	T	290 07	+++ ++	350 21	340 25	340 21	330 22	340 35	340 27	360 28	360 26	360 24	360 16	350 10	100 03	150 02				
	280530	P	270 06	+++ ++	350 13	360 17	340 15	350 18	350 23	350 27	010 56	020 50	010 32	010 19	020 07	270 05	130 02	080 06			
	281130	T	040 07	+++ ++	360 07	350 08	350 09	350 12	360 18	010 25	020 88	010 83	010 47	010 25	020 09	110 07					
	281730	P	070 06	+++ ++	340 04	310 06	330 08	360 16	010 22	010 46	010 71	360 77	360 36	360 20	320 05	230 02					
CRAWLEY 03774	272330	T	000 00	+++ ++	020 13	010 17	010 15	010 18	340 27	350 34	360 56	360 35	360 29	350 14	010 09	190 04	140 07	090 09	090 02	P110 15	
	280530	P	330 02	+++ ++	320 13	330 19	350 20	350 18	350 13	360 30	010 78	010 74	010 34	360 23	010 11	010 03	100 03	120 04			
	281110	P	360 06	+++ ++	360 11	360 11	340 11	350 13	330 15	010 33	020 97	010 94	040 48	360 17	010 07	220 02	230 08	150 11	110 05	110 16	090 15
	281730	P	160 04	+++ ++	190 08	270 07	290 13	310 18	350 14	360 61	010 72	010 93	360 72	360 23	340 10	310 01	170 04	020 04	090 13	090 06	
CAMBORNE 03808	272330	T	000 00	+++ ++	350 07	360 12	350 18	360 28	360 32	360 46	010 57	030102	020 84	020 42	020 21	060 10	150 06	080 08			
	280530	P	090 06	+++ ++	350 12	340 22	350 19	350 22	350 31	360 44	010 67	020 85	030 90	020 42							
	281130	T	360 06	+++ ++	330 07	340 11	350 15	350 17	350 29	360 37	010 54	010 69	010 67	010 54	350 18	040 03	280 08				
	281730	P	310 06	+++ ++	240 07	270 09	280 08	310 15	320 16	350 26	350 36	340 48	340 45	340 31	330 10	330 06					
VALENTIA 03953	272330	No winds reported																			
	281130	T	280 01	280 03	+++ ++	260 10															
Ocean Weather Station 'I' 59°00'N 19°00'W	272300	T	210 22	+++ ++	230 26	230 25	220 27	230 24	230 20	210 24	220 45	220 48	230 48	230 48	250 16	290 06	300 04	000 00			
	280645	P	180 20	+++ ++	200 36	210 35	210 33	220 29	240 37	220 38	200 54	210 53	210 53	230 71	260 19	310 15	320 14				
	281100	T	280 22	+++ ++	280 23	260 23	240 25	280 25	240 25	250 25	240 25	210 45	220 42	230 21	260 22						
	281800	P	270 20	+++ ++	280 26	270 27	270 25	270 23	270 22	270 20	280 31	280 31	280 21	300 33	300 20	320 15	010 16	050 05			
Ocean Weather Station 'J' 52°30'N 20°00'W	272300	T	230 18	230 25	240 19	230 21	260 22	270 27	260 30	250 34	200 41	210 29	210 29	180 22	360 18	020 18					
	280600	P	270 20	+++ ++	260 23	290 32	300 43	310 43	300 43	320 59	320 67	330 71	340 72	320 33							
	281100	T	280 30	+++ ++	300 34	290 37	290 37	290 44	270 59	270 53	280 57	290 66	300 84	300 65	300 29	110 06					
	281700	P	315 130	+++ ++	310 31	300 31	300 34	290 38	300 47	310 45	310 43	310 56	320 70	320 83	310 43	300 30	320 16	360 06	050 03		
LARKHILL 03743																					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

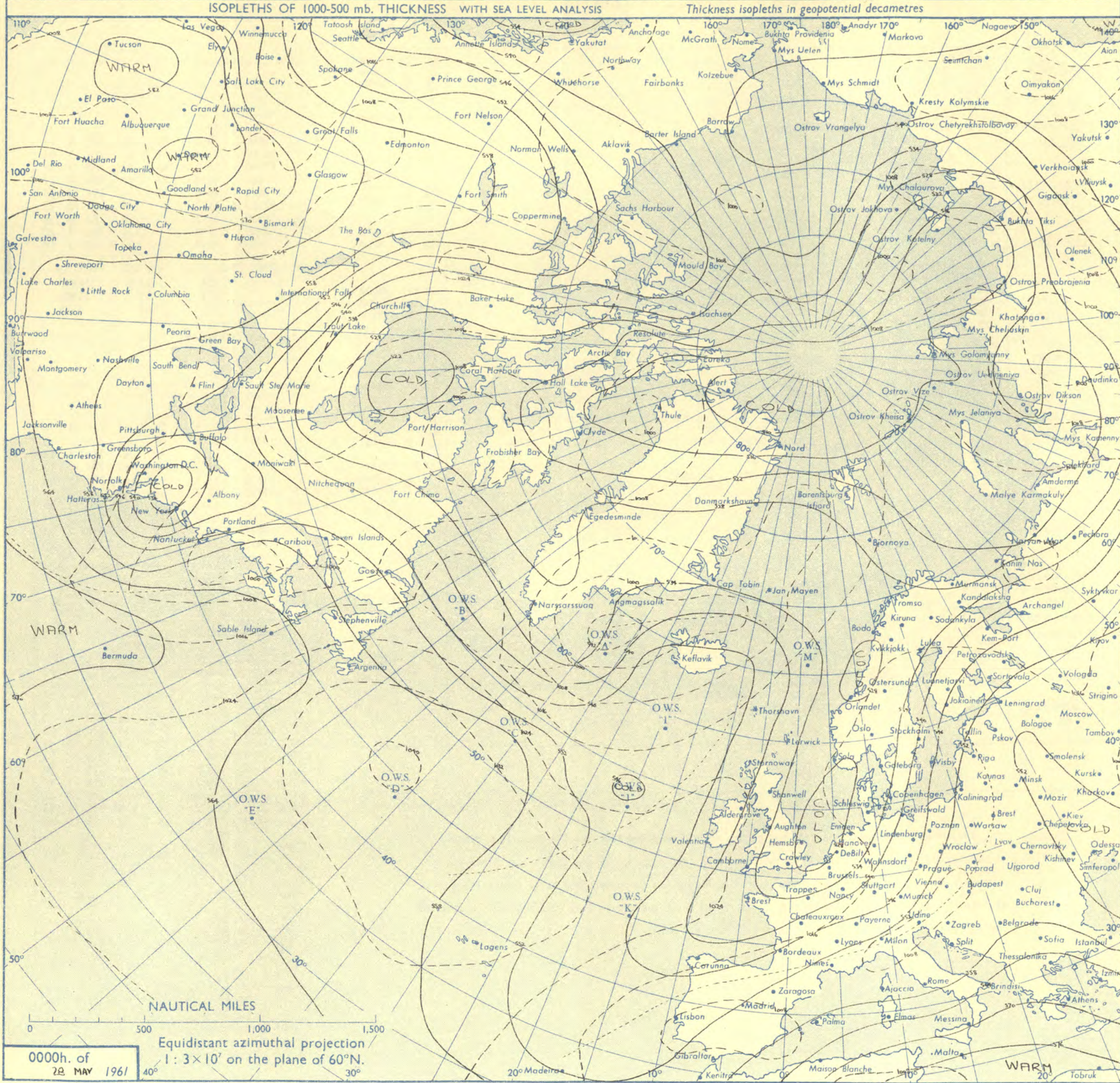
YYGGgg	POSITION	PRESSURE MSL Surf. °C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb m °C °C	700mb m °C °C	650mb m °C °C	600mb m °C °C	550mb m °C °C	500mb m °C °C
Cloud :—														
Inversion Levels :—														
Isothermal Levels :—														
YYGGgg	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
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		

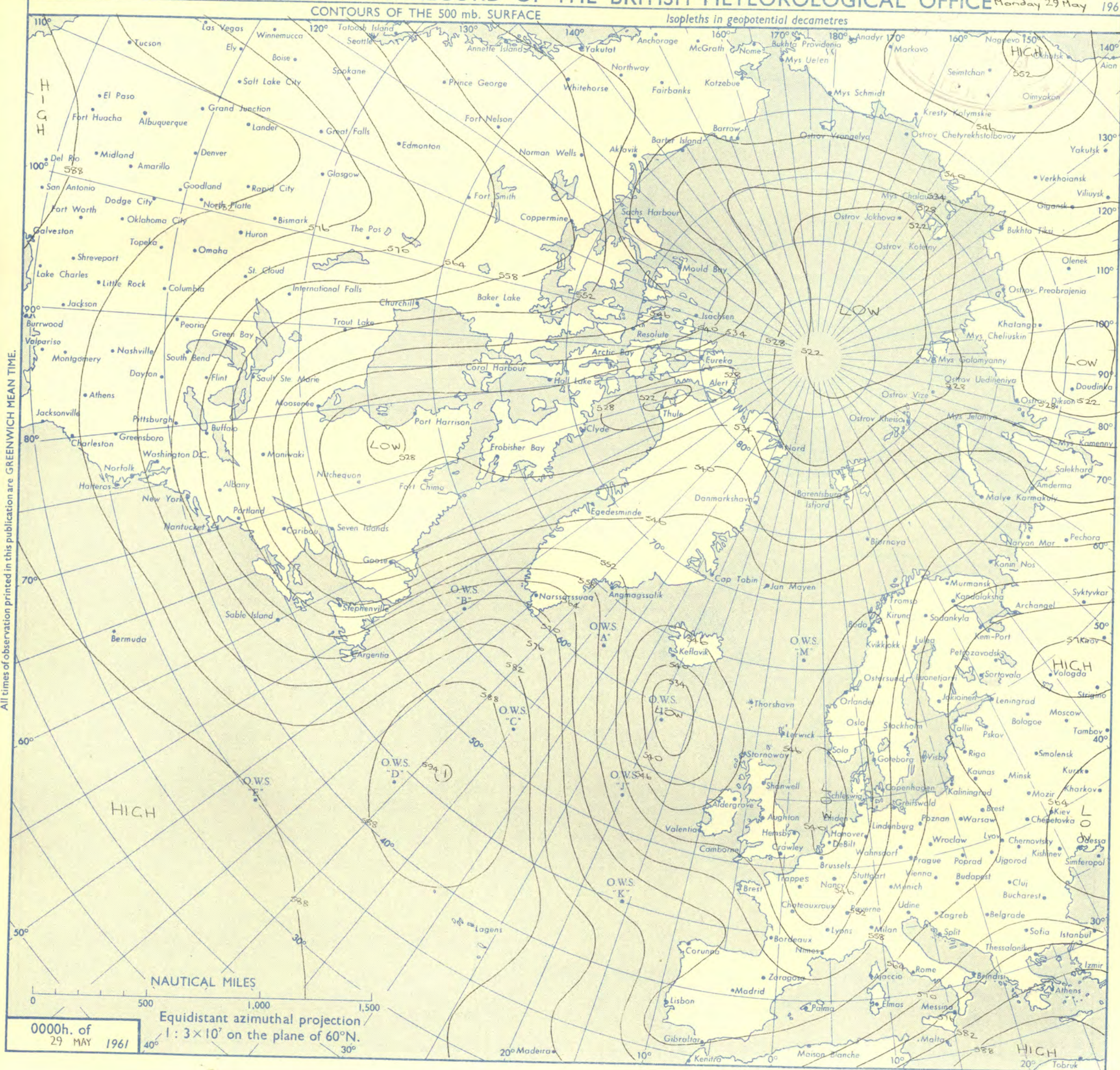
STATION		MAX. WIND
LERWICK 03005	155mb 360 21 24600m 110 15 033mb 100 10 25500m 060 04	360 93 10190m 350 84 09100m 330 80 09800m
STORNOWAY 03026	052mb 090 11 18000m 020 02 07720/0 11520/1 12590/4 115mb 320 10 17000m 300 02 10885/1 12685/2	360 69 10510m
SHANWELL 03170	648mb 010 35 170mb 010 33 072mb 040 06 12080/1 12570/1 221mb 350 47 178mb 360 17 P29600m 080 10 10900/1 12330/1	010 114 09640m 360 90 09990m 340 74 10220m
ALDERGROVE 03917	441mb 010 54 187mb 020 45 11160/1 P24900m 100 07 27900m 110 09 11620/1	020 96 10030m 010 67 10920m
AUGHTON 03322	227mb 020 71 03550m 010 32 13140m 030 26 03180/0 11180/1 11750/1 173mb 010 23 106mb 020 05 10730/1 12390/1	020 119 09640m 010 104 09370m 360 80 09970m
HEMSBY 03496	057mb 150 03 17000m 070 05 22560m 100 12 06850/0 446mb 020 48 087mb 200 08 04770m 010 22 17700m 180 05 05200/0 05660/0 09700/1 10140/1	020 103 07660m 010 80 09040m
CRAWLEY 03774	28200m 090 17 06300m 010 56 09720m 020 50 21600m 090 07 06250/0 06720/0 09240/1 06030m 010 78 10170m 010 61 28800m 100 14 33000m 100 22 36000m 120 10 36900m 090 11 05050m 010 52 11400m 360 52 04680/0 05050/0 07090/0 07990/0 10850/1 11270/1 11730/1	010 81 07370m 020 98 08010m 010 95 09080m
CAMBORNE 03808	338mb 020 81 215mb 020 56 11300m 070 22 13400m 040 23 11300/1 11700/1 12250/1 179mb 020 32 058mb 240 06 12600m 330 23 18000m 080 08 11400/1	030 103 09870m 020 95 09780m 010 71 08820m
VALENTIA 03953	010mb 280 02 937mb 280 09	
Ocean Weather Station 'I' 59°00'N 19°00'W	444mb 220 32 141mb 240 34 040mb 000 00 13500m 240 42 15300m 280 18 19800m 330 13 110mb 300 16 16800m 350 15 19800m 030 09 21900m 050 06 11180/0	220 79 11800m
Ocean Weather Station 'J' 52°30'N 20°00'W	442mb 220 40 P15000m 010 25 11100m 330 49 13200m 320 24 170mb 300 39 117mb 330 22 080mb 120 05 12900m 300 57 24300m 060 03 12980/1	340 80 09600m 300 87 09900m 310 85 11810m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The trough over eastern America has become cut-off near New York and the downstream ridge is amplifying as very warm air is carried northwards over the gulf of St. Lawrence. A low has formed in the trough moving east over the Denmark Strait and the downstream ridge is declining as it swings southeast towards the British Isles. The North Sea trough continues to extend southwards and is becoming cut-off.

AVERAGE AND EXTREME VALUES 1951-55							
MAY							
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	22145	-50.1	-46	-55	...	...	(10)
60	19500	-50.3	-43	-60	102	2	11
100	16180	-51.4	-44	-62	283	3	13
150	13540	-51.0	-42	-62	288	7	19
200	11680	-53.8	-39	-69	288	10	27
300	9070	-48.8	-37	-56	281	11	36
400	7125	-35.0	-27	-49	282	10	32
500	5530	-23.2	-15	-38	283	8	26
700	2985	-7.0	1	-20	289	4	20
850	1450	0.9	11	-10	310	2	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		254	-57.8		10230		
Max.		479	-39		12800		
Min.		171	-69		5545		
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	22100	-52.2	-50	-58	85	9	11
60	19480	-52.8	-46	-62	69	1	10
100	16195	-53.8	-44	-61	284	5	14
150	13590	-53.3	-46	-65	284	10	22
200	11750	-55.3	-42	-67	282	15	34
300	9140	-47.7	-38	-56	274	15	45
400	7180	-33.4	-23	-48	270	13	38
500	5580	-21.4	-11	-34	267	11	31
700	3015	-5.3	6	-16	258	7	23
850	1470	3.0	15	-6	254	5	20
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		244	-58.0		10560		
Max.		405	-39		13685		
Min.		158	-72		6825		
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	...	...	...	...	180	2	8
60	19500	-59.3	-57	-66	270	6	10
100	16315	-60.2	-51	-67	270	24	26
150	13775	-59.1	-49	-71	275	40	43
200	11970	-58.9	-48	-67	275	48	53
300	9355	-43.8	-39	-49	275	42	50
400	7365	-28.2	-23	-38	275	34	40
500	5720	-16.0	-12	-28	275	27	32
700	3095	2.2	9	-9	275	16	23
850	1500	12.2	24	2	275	9	16
Tropo- pause		Average Press.	Max. Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		117	-65.1	...	80	...	-71
		199	-60.9	365	...	-41	...
* 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.							





HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

29 May

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	282330	082 05 02	098 06 02	1403 02- 12-	2931 08- 31-	5489 19- 29-	7110 31- 40-	9080 47- ++	11722 47-	13627 48-	16306 47-	18656 49-		
	291130	082 08 00	107 07 01-	1406 02- 14-	2920 12- 26-	5421 25- 42-	7013 35- 50-	8967 46- ++	11682 44-	13607 46-	16292 48-	18639 50-		
STORNOWAY 03026	282330	013 08 04	062 08 04	1379 02- 04-	2907 08- 10-	5468 18- 21-	7103 29- 32-	9093 45- ++	11734 51-	13632 47-	16309 48-			
	291133	013 13 03	054 12 02	1381 01- 06-	2906 07- 27-	5461 19- 29-	7081 31- 39-	9050 47- ++	11693 47-	13601 46-	16283 48-			
SHANWELL 03170	282330	005 06 03	081 07 02	1405 00 04-	2927 08- 25-	5489 19- 28-	7116 30- 41-	9099 45- ++	11730 52-	13628 49-	16302 49-	18644 50-	20846 49-	
	291130	005 11 04	059 10 04	1376 02- 06-	2883 13- 16-	5416 22- 32-	7023 33- 44-	8987 48- ++	11667 44-	13596 44-	16300 47-	18662 48-	20880 48-	24263 46-
ALDERGROVE 03917	282330	077 09 04	055 ++ ++	1383 00 05-	2911 07- 10-	5476 17- 21-	7111 29- 34-	9101 44- ++	11737 51-	13629 49-	16295 49-	18633 49-	20832 50-	24182 49-
	291130	077 09 04	011 ++ ++	1329 01- 03-	2855 09- 11-	5391 23- 26-	6996 33- 37-	8967 47- ++	11618 45-	13534 47-	16211 49-	18546 51-	20744 48-	24082 50-
AUGHTON 03322	282330	056 08 03	086 08 03	1410 01- 05-	2930 09- 14-	5493 19- 22-	7123 29- 37-	9113 45- ++	11741 55-	13624 49-	16284 50-	18616 51-	20807 50-	24153 48-
	291130	056 12 02	033 ++ ++	1359 01- 03-	2880 10- 13-	5425 20- 23-	7047 31- 34-	9022 46- ++	11680 44-	13610 45-	16320 45-	18696 46-	20942 43-	
HEMSBY 03496	282330	012 04 01	103 07 01	1419 03- 06-	2932 12- 30-	5424 23- 40-	7032 32- 45-	9024 41- ++	11730 45-	13650 46-	16330 47-			
	291130	012 12 02	070 10 02-	1386 03- 05-	2896 12- 28-	5408 24- 40-	7016 32- 45-	8986 46- ++	11658 45-	13569 47-	16244 49-	18572 51-		
CRAWLEY 03774	282330	144 05 04	105 ++ ++	1424 01- 04-	2933 14- 16-	5454 22- 34-	7071 30- 44-	9075 42- ++	11742 49-	13643 47-	16315 49-	18651 51-	20837 50-	24190 50-
	291130	144 12 02	057 ++ ++	1383 02- 05-	2895 11- 14-	5435 19- 22-	7060 30- 34-	9046 45- ++	11683 49-	13587 47-	16264 48-	18600 50-	20789 51-	
CAMBORNE 03808	282330	088 08 05	093 08 04	1419 00 02-	2954 08- 14-	5531 17- 19-	7166 29- 32-	9156 44- ++	11787 53-	13664 50-	16314 51-			
	291130	088 10 09	011 ++ ++	1341 01 01-	2882 06- 08-	5451 20- 24-	7063 31- 36-	9038 46- ++	11706 46-	13614 47-	16301 47-			
VALENTIA 03953	282330	014 11 10	039 11 10	1374 02 01	2923 06- 08-	5490 20- 23-	7110 30- 34-	9100 44- ++	11760 48-					
	291130	014 13 07	025- ++ ++	1306 00 03-	2836 08- 16-	5370 24- 35-	6970 34- 41-	8920 46- ++	11650 42- +++++	++	16280 49-			
Ocean Weather Station 'I' 59°00'N 19°00'W	290000	08 06	065- ++ ++	1252 01- 02-	2774 11- 13-	5280 28- 30-	6850 35- 43-	8870 33- 45-	11700 37-	13670 41-	16390 46-	18740 50-	20940 52-	24260 50-
	291200	10 06	054 09 05	1373 02- 04-	2907 07- 24-	5450 23- 36-	7050 34- 47-	9020 42- ++	11740 45-	13650 49-	16290 52-	18600 53-	20790 51-	
Ocean Weather Station 'J' 52°30'N 20°00'W	282300	11 04	090 10 04	1414 01- 02-	2967 04- 38-	5540 21- 35-	7160 31- 47-	9150 42- ++	11840 49-	13710 52-				
	291200	11 07	021- ++ ++	1305 00 03-	2830 06- 19-	5330 28- 39-	6920 32- 44-	8940 35- 48-	11730 42-	13650 48-	16290 54-	18580 58-		

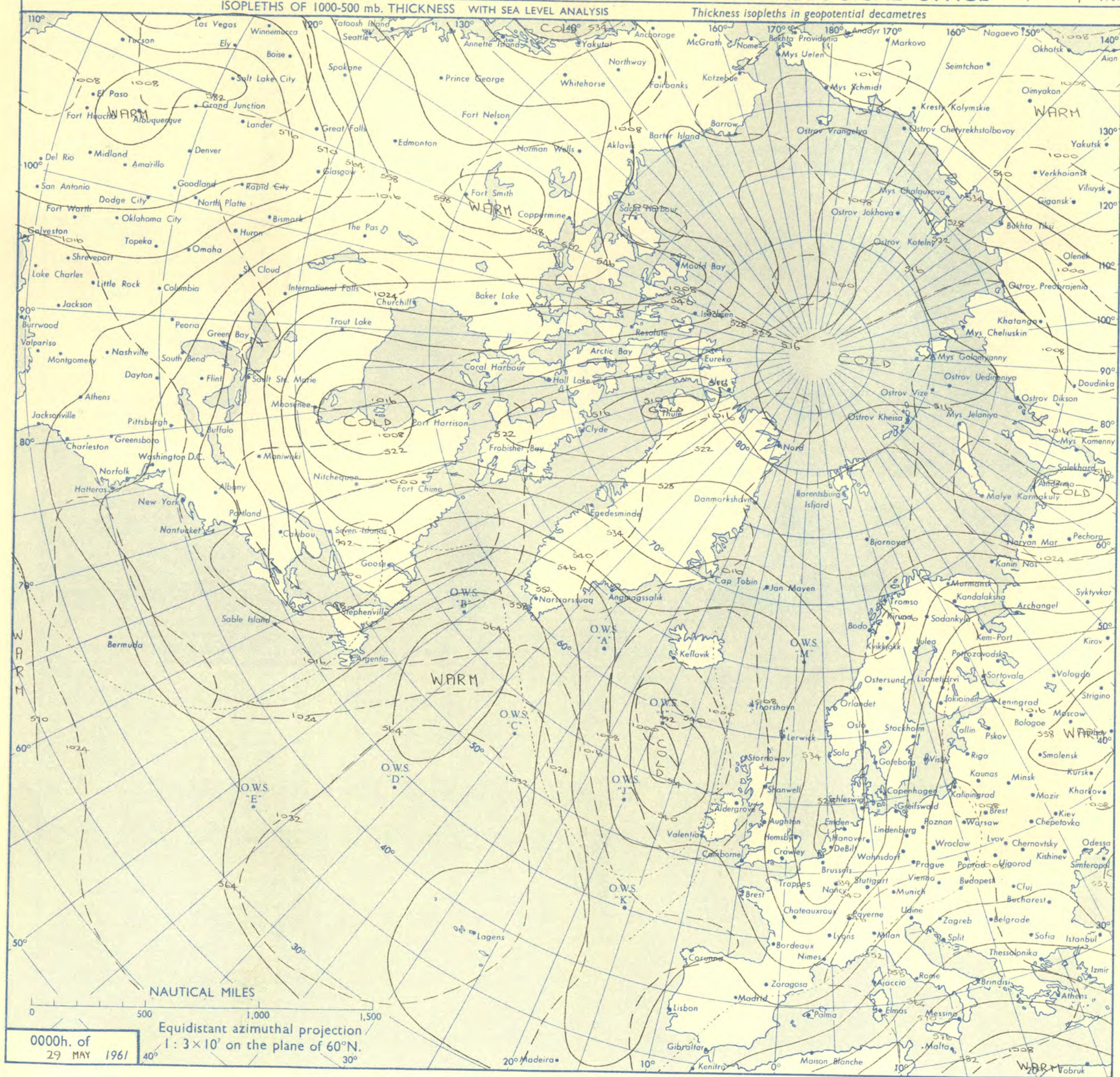
STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 38500	012 002 914	996 06 01 867 04- 07- 841 01- 16- 808 ++ 24- 700 08- 31- 661 ++ 23- 631 ++ 25- 607 15- 21- 587 ++ 18- 567 15- 20- 558 14- 22- 415 29- 38- 344 40- 48- 272 52- 240 55- 209 47- 100 47- 062 49-	240 10520 55-				
	02 756++	013 003 934	987 04 04- 876 05- 10- 847 02- 17- 612 19- 34- 523 23- 41- 410 34- 49- 326 45- 290 46- 181 44- 157 46- 100 48- 064 50-	326 08380 45-				
STORNOWAY 03026	21 856++	007 006 874	006 08- 04- 834 03- 05- 817 03- 05- 601 14- 16- 586 13- 15- 481 19- 22- 328 40- 44- 271 50- 237 55- 228 51- 206 52- 186 48- 079 49-	237 10620 55-				
	02 11640	007 005 859	995 11 02 951 07 01- 892 ++ 03- 773 06- 12- 763 ++ 18- 757 05- 19- 727 07- 26- 707 07- 27- 676 ++ 29- 624 ++ 28- 594 ++ 20- 573 16- 19- 566 ++ 19- 524 17- 29- 344 40- 48- 318 44- 255 54- 193 46- 090 49-	255 10120 54-				
SHANWELL 03170	01 38501	010 009 851	000 ++ 02 986 07 02 954 06 02 900 03 00 880 02 02- 750 08- 11- 735 ++ 18- 728 07- 20- 664 10- 28- 616 ++ 26- 601 14- 21- 595 ++ 19- 576 12- 16- 550 15- 18- 520 ++ 20- 500 ++ 28- 454 23- 33- 406 ++ 40- 333 40- 47- 276 49- 224 55- 199 52- 192 48- 100 49- 050 49-	224 10990 55-				
	02 22580	007 007 881	951 03 01- 935 ++ 00 894 01 03- 700 13- 16- 690 12- 16- 653 ++ 25- 609 14- 28- 562 ++ 31- 516 ++ 31- 428 29- 40- 348 40- 50- 273 52- 260 47- 173 44- 135 44- 100 47- 065 48- 030 46-	273 09600 52-				
ALDERGROVE 03917	02 4567+	007 997 850	982 08 04 947 ++ 00 932 07 00 821 ++ 06- 780 ++ 11- 766 06- 11- 733 05- 08- 536 16- 19- 511 16- 19- 485 19- 23- 345 37- 42- 234 56- 181 48- 091 50- 030 49-	234 10720 56-				
	21 5567+	001 992 872	980 07 03 937 03 01 905 ++ 03- 820 ++ 06- 765 06- 07- 528 20- 23- 361 37- 41- 299 41- 195 45- 078 51- 050 48- 046 51- 030 50-	259 09910 54-				
AUGHTON 03322	02 65651	011 004 862	986 09 03 975 ++ 00 803 ++ 06- 726 10- 11- 691 08- 15- 656 ++ 22- 629 ++ 24- 587 14- 22- 563 13- 18- 515 18- 21- 502 18- 21- 474 ++ 29- 442 ++ 34- 403 29- 37- 331 40- 46- 255 52- 208 55- 174 49- 104 50- 063 52- 030 48-	235 10720 54-				
	02 2651+	004 997 861	985 10 03 865 00 02- 803 04- 08- 735 09- 12- 708 09- 12- 642 13- 16- 620 13- 16- 570 17- 20- 528 18- 21- 460 23- 25- 341 40- 43- 255 55- 211 45- 189 43- 105 46- 072 45- 069 47- 047 42- 040 46-	255 10100 55- (044 21800 46-				
HEMSBY 03496	02 11430	013 011 893	007 07 01 867 02- 04- 829 04- 09- 812 ++ 18- 750 08- 24- 690 ++ 31- 600 ++ 32- 554 25- 36- 506 23- 40- 457 26- 43- 360 37- 49- 320 38- ++ 274 45- 154 45- 113 49- 080 49-	274 09640 45-				
	03 515++	008 007 892	001 ++ 02- 990 08 03- 927 02 04- 829 04- 06- 750 ++ 22- 716 11- 26- 630 18- 36- 539 20- 40- 492 25- 39- 470 24- 39- 361 37- 49- 268 50- 248 47- 230 51- 200 45- 102 49- 060 52-	268 09710 50-				
CRAWLEY 03774	02 4253+	013 995 867	989 08 04 965 ++ 01 790 ++ 07- 766 ++ 12- 681 16- 18- 657 15- 19- 638 ++ 26- 603 19- 32- 587 16- 32- 556 17- 36- 513 ++ 37- 492 23- 33- 478 ++ 31- 464 24- 34- 431 ++ 39- 374 33- 47- 359 33- 46- 331 ++ 50- 259 48- 218 53- 195 48- 105 49- 066 52- 044 48- 030 50-	218 11190 53-				
	03 52607	007 990 871	976 09 01- 828 04- 06- 800 ++ 13- 781 ++ 15- 733 10- 14- 711 10- 13- 670 13- 16- 659 ++ 21- 632 ++ 24- 590 ++ 18- 549 17- 20- 455 23- 27- 373 34- 37- 347 38- 42- 325 40- 44- 253 54- 223 55- 205 49- 178 47- 093 49- 032 52-	253 10140 54-				
CAMBORNE 03808	02 5567+	011 001 856	991 ++ 03 984 09 03 817 03- 05- 799 ++ 05- 775 03- 11- 726 ++ 15- 668 10- 14- 664 09- 13- 646 ++ 13- 588 13- 15- 576 13- 15- 536 14- 16- 326 40- 43- 242 54- 217 56- 176 50- 072 51-	217 11270 56-				
	60 6732+	001 991 824	966 ++ 05 872 02 01 620 ++ 13- 536 16- 19- 411 31- 35- 401 31- 35- 368 ++ 43- 340 40- 46- 260 51- 196 46- 078 49-	260 09970 51-				
VALENTIA 03953	61 853++	005 003 816	816 00 01- 533 15- 18- 265 50- 246 51- 202 48- 148 48-	246 10400 51-				
	01 28502	997 995 850	970 09 04 910 04 00 745 06- 11- 673 09- 18- 558 19- 30- 510 23- 35- 441 31- 37- 415 32- 38- 337 44- 306 47- 271 45- 261 42- 159 42- 124 48- 076 51- 034 55-	306 08800 47- 124 14900 48-				
Ocean Weather Station 'I' 59°00'N 19°00'W	25 6942+	992 992 883	980 ++ 05 896 01 00 817 03- 05- 494 ++ 30- 469 31- 35- 406 35- 43- 312 33- 45- 215 35- 50- 141 43- 045 53- 036 50- 030 50-	406 06700 35- 141 14100 43-				
	01 32400	006 006 876	994 08 04 962 ++ 03 878 00 04- 837 04- 06- 809 01- 12- 763 03- 18- 614 14- 30- 554 18- 34- 440 29- 42- 380 37- 50- 342 41- 309 43- 283 40- 240 46- 212 44- 110 53- 092 50- 070 53- 043 50-	309 08800 43- 240 10500 46- 110 15700 53-				
Ocean Weather Station 'J' 52°30'N 20°00'W	01 746++	011 011 869 754	919 04 02 870 00 00 848 01- 02- 823 04 13- 786 02 26- 650 08- ++ 591 ++ 28- 455 25- 42- 316 40-	250 10400 48-				
	02 58500	998 998 851	980 09 06 838 01- 04- 780 ++ 09- 699 10- 21- 629 16- 28- 498 28- 35- 459 29- 40- 431 32- 42- 351 34- 47- 317 33- 46- 256 39- ++ 245 37- 186 45- 051 54-	431 06400 32- 100 16300 54-				

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					
291150	48.0°N 18.0°W	002	994	830	061	12 04	015	08 02	884	05 03	1347	02 02	1835	02- 02-	06- 37-	2883	06- 37-	08- 42-	4078	12- 30-	17- 37-	5444	22- 47-
Cloud :— 1/8Cu. 1500 to 8000ft; 2/8Cu. 2400 to 7000ft; 5/8Sc. 4400 to 7000ft; 2/8Cs. 25000 to TNG.																							
Inversion											Isothermal												
Levels :— 750mb to 700mb -6°C.											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					
291246	45.9°N 13.2°W	001	994	791	061	12 03	015	08 01	884	04 03-	1344	01 05-	1832	01 23-	03- 27-	2890	07- 35-	10- 46-	4081	12- ++	15- ++	5459	21- 45-
Cloud :— 2/8Cu. 2000 to 4500ft; 4/8Ac. 13000 to 17000ft.																							
Inversion											Isothermal												
Levels :—											Levels :—												
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AVERAGE AND EXTREME VALUES 1951-55							
MAY							
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	22145	-50.1	-46	-55	...	...	(10)
60	19500	-50.3	-43	-60	102	2	11
100	16180	-51.4	-44	-62	283	3	13
150	13540	-51.0	-42	-62	288	7	19
200	11680	-53.8	-39	-69	288	10	27
300	9070	-48.8	-37	-56	281	11	36
400	7125	-35.0	-27	-49	282	10	32
500	5530	-23.2	-15	-38	283	8	26
700	2985	-7.0	1	-20	289	4	20
850	1450	0.9	11	-10	310	2	18
Tropopause		Press. (mb.)	Temp. (°C)	Height (gpm.)			
Average		254	-57.8	10230			
Max.		479	-39	12800			
Min.		171	-69	5545			
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	22100	-52.2	-50	-58	85	9	11
60	19480	-52.8	-46	-62	69	1	10
100	16195	-53.8	-44	-61	284	5	14
150	13590	-53.3	-46	-65	284	10	22
200	11750	-55.3	-42	-67	282	15	34
300	9140	-47.7	-38	-56	274	15	45
400	7180	-33.4	-23	-48	270	13	38
500	5580	-21.4	-11	-34	267	11	31
700	3015	-5.3	6	-16	258	7	23
850	1470	3.0	15	-6	254	5	20
Tropopause		Press. (mb.)	Temp. (°C)	Height (gpm.)			
Average		244	-58.0	10560			
Max.		405	-39	13685			
Min.		158	-72	6825			
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	...	...	...	...	180	2	8
60	19500	-59.3	-57	-66	270	6	10
100	16315	-60.2	-51	-67	270	24	26
150	13775	-59.1	-49	-71	275	40	43
200	11970	-58.9	-48	-67	275	48	53
300	9355	-43.8	-39	-49	275	42	50
400	7365	-28.2	-23	-38	275	34	40
500	5720	-16.0	-12	-28	275	27	32
700	3095	2.2	9	-9	275	16	23
850	1500	12.2	24	2	275	9	16
Tropo- pause		Average	Max.	Min.	Max.	Min.	
		Press.	Temp.	Press.	Press.	Temp.	
Upper		mb.	°C	mb.	mb.	°C	
Lower		117	-65.1	...	80	...	
		199	-60.9	365	...	-41	
* 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.							

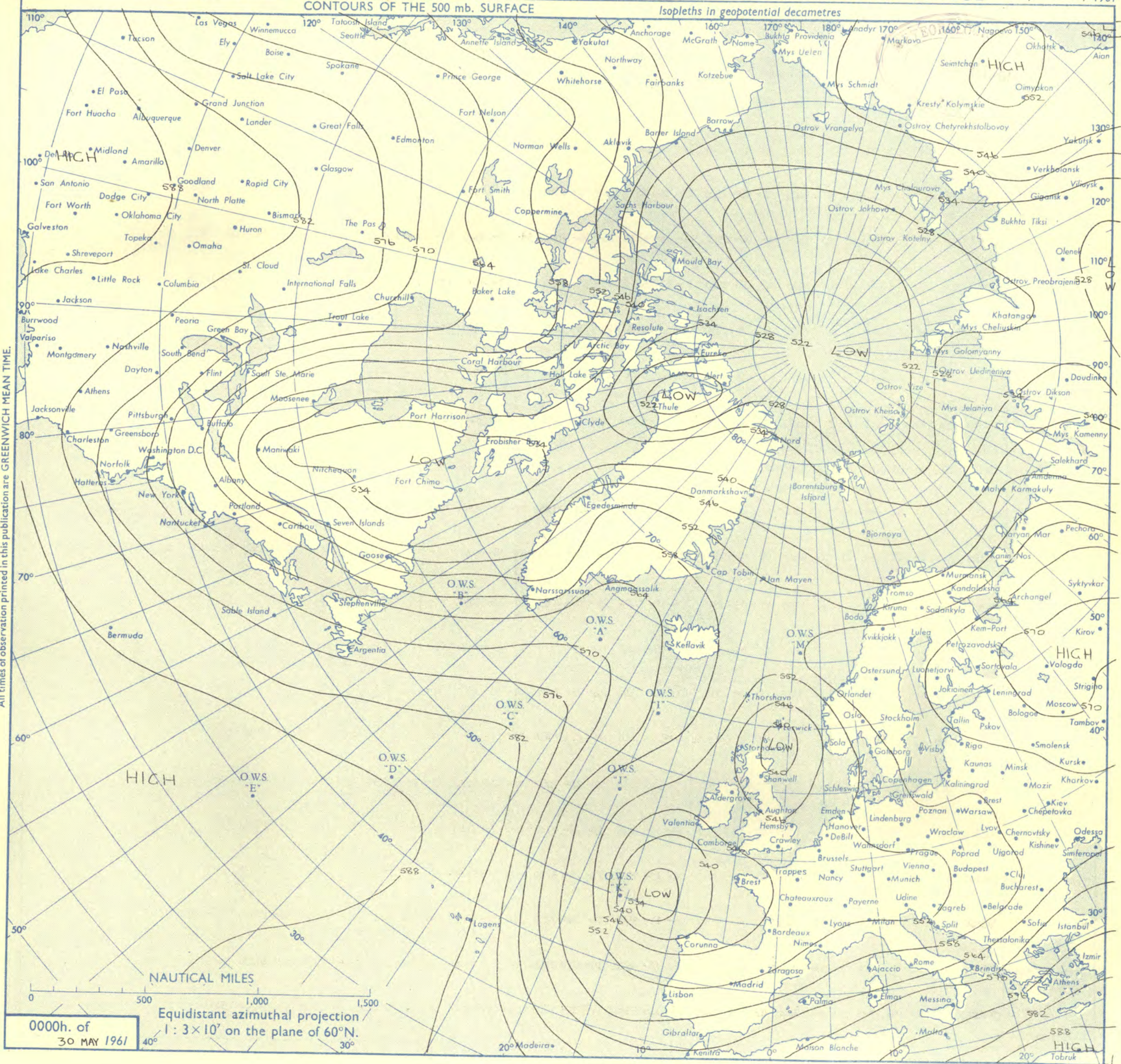
The trough which was over eastern America yesterday has relaxed northeast to Newfoundland while a further trough has moved southeast to the Great Lakes. A ridge has amplified south of Greenland and the low vortex on its forward side has plunged southeastward. The ridge which was over the British Isles yesterday has collapsed rapidly. The low vortex over the North Sea has been slow-moving, but the trough to south has swung east across France. The low southwest of Spain has filled slowly. The blocking pattern over western Russia has been maintained.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

30 May, 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	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	gpm °C °C	gpm °C °C	
LERWICK 03005	292330	082	05 05	101	05 03	1412	02- 06-	2923	12- 18-	5393	30- 41-	6955	37- 49-	8936	38- ++	11716	42- 13647	46- 16335	48-										
	301130	082	10 06	111	08 04	1419	02- 06-	2935	12- 20-	5434	25- 38-	7031	33- 44-	8996	46- ++	11729	42- 13659	46- 16339	49- 18678	51- 20859	52- 24186	51-							
STORNOWAY 03026	292330	013	07 03	103	07 03	1415	03- 05-	2926	11- 24-	5420	27- 39-	6995	36- 47-	8955	47- ++	11671	44- 13586	46- 16260	49- 18594	50-									
	301130	013	10 03	110	08 01	1423	02- 09-	2935	12- 19-	5427	30- 38-	6982	41- ++	8937	39- ++	11705	42- 13639	45- 16320	50- 18645	51- 20824	52- 24128	53-							
SHANWELL 03170	292330	005	08 03	096	08 03	1412	01- 08-	2927	11- 15-	5425	26- 38-	7001	38- 50-	8946	43- ++	11684	42- 13612	46- 16297	48- 20833	50-									
	301130	005	09 07	104	07 05	1417	02- 03-	2940	10- 13-	5450	26- 36-	7034	36- 43-	8992	43- ++	11742	42- 13682	44- 16387	46- 18738	48- 20940	51- 24271	50-							
ALDERGROVE 03917	292330	077	09 07	063	++ ++	1391	01 02-	2924	08- 10-	5467	22- 26-	7073	33- 38-	9038	48- ++	11690	47- 13601	47-											
	301200	077	09 08	077	09 07	1402	01 00	2942	07- 09-	5468	25- 31-	7056	36- 42-	9012	44- ++	11749	43- 13682	44- 16380	47- 18729	49- 20939	47-								
AUGHTON 03322	292330	056	09 06	065	09 07	1393	00 04-	2024	09- 11-	5460	23- 27-	7060	34- 39-	9012	49- ++	11683	45- 13602	46- 16285	49- 18628	50- 20831	49-								
	301130	056	14 03	082	13 04	1415	01 03-	2938	10- 14-	5470	23- 28-	7072	33- 40-	9032	47- ++	11692	47- 13559	47- 16269	48- 18600	52- 20789	51-								
HEMSBY 03496	292330	012	10 04	081	10 03	1406	01 21-	2933	10- 38-	5482	20- 23-	7105	30- 33-	9089	46- ++	11734	48- 13640	47-											
	301130	012	13 07	091	11 05	1416	00 04-	2937	11- 32-	5494	19- 22-	7124	30- 38-	9113	45- ++	11740	50- 13623	49- 16281	51- 18600	52- 20777	52- 24075	54-							
CRAWLEY 03774	292330	144	09 05	065	++ ++	1398	01 05-	2925	10- 12-	5469	21- 24-	7089	30- 33-	9081	45- ++	11720	49- 13622	47- 16291	49- 18632	50-									
	301130	144	14 03	066	++ ++	1403	00 05-	2925	10- 23-	5483	19- 25-	7110	30- 41-	9093	45- ++	11725	50- 13619	48- 16281	50- 18600	52-									
CAMBORNE 03808	292330	088	10 09	010	++ ++	1345	02 00	2887	07- 08-	5444	22- 25-	7046	34- 37-	9001	47- ++	11676	45- 13593	47- 16274	48-										
	301130	088	15 05	041	++ ++	1379	01 06-	2908	09- 15-	5446	23- 26-	7049	34- 38-	8999	48- ++	11658	48- 13556	49- 16214	50-										
VALENTIA 03953	292331	014	09 06	004	++ ++	1341	03 00	2885	05- 17-	5450	21- 32-	7060	32- 42-	9030	47- ++	11720	45- +++++	++	16340	49-									
	301130	014	15 10	055	14 08	1395	01 01	2931	09- 09-	5490	19- 26-	7110	30- 34-	9090	46- ++	11740	47- +++++	++	16340	48-									
Ocean Weather Station 'I' 59°00'N 19°00'W	300000		11 09	133	10 08	1459	04 01-	3015	04- 13-	5600	17- 26-	1230	30- 39-	9230	40- 50-	11900	56- 13750	53- 16370	53-										
	301100		11 07	145	09 06	1469	00 04-	3011	06- 11-	5590	16- 28-	7250	24- 36-	9300	37- 48-	12000	52- 13840	57- 16450	52- 18750	53-									
Ocean Weather Station 'J' 52°30'N 20°00'W	292300		11 08	081	11 08	1410	01 01-	2950	06- 16-	5520	15- 31-	7140	29- 40-	9140	44- ++	11820	50- 13710	52- 16330	52- 18630	51-									
	301100		11 09	118	09 08	1444	01 00	2989	05- 14-	5580	17- 32-	7220	25- 40-	9250	40- ++	11900	56- 13740	54- 16360	51-										

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	61 4847+	013	002	892	998 06 04 770 ++ 12- 706 ++ 17- 671 14- 23- 534 29- 38- 404 37- 49- 259 38- 151 46- 100 48- 072 49-	404	06860	37-
	02 624++	013	003	916	995 06 01 877 03- 06- 862 01- 05- 787 ++ 13- 651 15- 25- 578 23- 34- 554 23- 34- 506 24- 37- 413 32- 43- 354 39- 50- 300 46- 221 41- 129 48- 100 49- 094 48- 054 53- 037 50- 030 51-	300	08996	46-
STORNOWAY 03026	02 15500	013	011	890	000 07 03 908 ++ 01- 882 ++ 04- 802 06- 08- 763 07- 14- 732 09- 22- 618 19- 32- 494 27- 40- 408 36- 48- 386 35- 47- 355 39- 50- 307 46- 292 47- 238 43- 113 49- 060 51-	292	09140	47-
	03 12604	013	012	898	993 07 00 898 00 06- 801 05- 13- 726 ++ 19- 698 12- 19- 598 19- 28- 466 34- 42- 405 40- 47- 375 43- 302 39- 222 40- 099 50- 030 53-	375	07410	43-
SHANWELL 03170	02 5563+	012	011	883	999 08 03 907 ++ 01- 870 01- 05- 848 01- 08- 752 09- 13- 735 08- 13- 603 20- 25- 579 ++ 30- 486 27- 39- 400 38- 50- 360 43- 195 43- 100 48- 050 50-	360	07700	43-
	60 574++	013	012	884	987 06 04 844 02- 03- 709 09- 12- 563 22- 26- 544 22- 29- 517 24- 34- 425 34- 41- 371 40- 46- 326 43- 213 41- 100 46- 052 51- 030 50- Pressure doubtful above 070 mbs	326	08410	43-
ALDERGROVE 03917	61 355++	008	998	838	825 01- 03- 622 13- 16- 521 20- 24- 346 ++46- 254 55- 240 48- 228 50- 180 46- 117 47-	254	10100	55-
	63 363++	009	000	838 813	940 05 05 838 00 01- 813 00 01- 504 25- 30- 458 29- 34- 388 38- 44- 359 39- 45- 308 45- 292 42- 105 46- 065 50- 042 45-	308	08820	45-
AUGHTON 03322	02 8092+	008	001	849	937 07 01 849 00 04- 752 ++ 07- 636 14- 17- 596 15- 18- 534 19- 23- 359 40- 45- 286 50- 175 45- 090 49- 035 49-	286	09320	50-
	03 68500	010	003	840	990 11 02 802 03- 06- 776 06- 10- 720 09- 12- 697 ++ 14- 488 24- 29- 433 ++ 34- 393 34- 41- 308 47- 257 51- 197 47- 096 48- 091 51- 087 48- 072 52- 058 50- 041 53-	257	10040	51-
HEMSBY 03496	02 00908	010	008	842	003 10 03 939 ++ 03 925+ 04 02- 889 ++ 03- 881 ++ 17- 835 ++ 24- 670 12- 38- 641 12- 40- 587 16- 39- 573 15- 29- 558 ++ 22- 502 ++ 23- 478 22- 25- 334 40- 43- 270 51- 255 53- 191 46- 122 48-	255	10140	53-
	02 32500	011	009	856	966 07 04 948 ++ 04 886 02 03- 800 04- 07- 735 ++ 14- 722 08- 21- 720 ++ 24- 699 ++ 32- 680 13- 22- 651 11- 32- 619 11- 39- 581 ++ 37- 529 ++ 20- 465 21- 26- 423 ++ 31- 398 ++ 39- 330 40- 50- 239 55- 216 55- 198 50- 129 48- 100 51- 030 54-	239	10600	55-
CRAWLEY 03774	02 8097+	008	991	837	985 09 04- 965 ++ 04 952 ++ 02- 934 07 02- 865 ++ 05- 793 04- 06- 638 14- 15- 614 13- 15- 528 ++ 22- 471 24- 26- 458 24- 26- 366 33- 37- 327 40- 45- 271 51- 241 54- 230 54- 214 50- 178 47- 100 49- 092 47- 053 52-	241	10510	54-
	02 61600	008	991	844	914 06 03- 786 06- 08- 761 ++ 09- 734 ++ 18- 645 12- 34- 622 11- 20- 572 ++ 19- 462 22- 28- 419 27- 38- 33- 43- 337 ++ 49- 242 55- 227 55- 207 50- 149 48- 062 53-	242	10480	55-
CAMBORNE 03808	80 3847+	001	991	814	880 04 01 782 02- 03- 634 10- 12- 358 40- 43- 272 51- 214 45- 088 49-	272	09640	51-
	03 11503	005	995	840	978 11 01 938 08 01 910 06 04- 793 04- 10- 753 05- 12- 693 09- 16- 647 13- 17- 593 14- 17- 448 28- 32- 360 40- 44- 322 46- 262 52- 224 47- 087 49-	262	09900	52-
VALENTIA 03953	03 55600	001	999	800	975 11 06 747 04- 05- 715 04- 11- 560 14- 33- 318 45- 275 49- 237 45- 181 44- 126 47- 116 45- 098 50-	275	09600	49-
	03 885++	007	005	835	998 13 06 819 02- 02- 771 02- 02- 700 09- 09- 676 09- 10- 570 15- 22- 535 17- 22- 520 18- 24- 425 26- 32- 305 45- 250 55- 222 47- 116 46- 089 50-	250	10300	55-
Ocean Weather Station 'I' 59°00'N 19°00'W	03 564++	016	016	770	947 05 03 891 03 01 867 ++ 00 843 04 02- 693 ++ 13- 630 09- 16- 533 14- 23- 370 34- 43- 300 40- 50- 256 47- 201 56- 191 56- 186 54- 094 52-	201	11900	56-
	02 11600	018	018	841	920 03 01 898 03 01- 830 ++ 03- 654 08- 13- 615 08- 14- 520 17- 23- 501 ++ 27- 496 15- 27- 415 24- 35- 397 24- 36- 319 33- 45- 292 39- 50- 234 48- 156 58- 136 53- 057 53-	156	13600	58-
Ocean Weather Station 'J' 52°30'N 20°00'W	01 38500	010	010	841	950 07 06 851 ++ 02- 829 01- 02- 785 01- 06- 765 02- 10- 682 ++ 17- 396 29- 40- 321 40- 50- 292 45- 255 45- 219 51- 177 46- 158 51- 081 54- 070 51- 060 54- 052 53-	219	11200	51-
	80 784++	014	014	825	985 08 07 955 06 06 811 01- 02- 790 ++ 02- 766 02- 09- 727 ++ 13- 687 06- 15- 641 07- 17- 471 19- 36- 410 26- 41- 400 25- 40- 350 ++ 43- 253 50- 231 53- 193 57- 176 54-	193	12100	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	292330	T	320 08	+++ ++	040 05	080 12	090 12	080 12	060 19	080 30	100 40	100 32	090 23	090 23	090 12	120 07					
	300530	P	180 08	+++ ++	150 12	160 13	140 11	120 13	140 12	150 10	130 26	150 21	140 12	120 16	100 12	120 09	140 11	010 07	120 10		
	301130	T	240 12	+++ ++	210 13	200 13	170 16	170 18	180 26	180 56	170 77	170 68	150 36	140 15	150 13	150 12	120 12	150 13			
	301730	P	150 10	+++ ++	190 12	190 11	170 11	160 14	170 26	170 36	170 70	170 74	170 45	160 23	140 14	140 08	150 09	140 06	110 05		
STORNOWAY 03026	292330	T	080 13	+++ ++	090 12	090 07	070 09	060 12	030 14	010 28	360 59	010 70	010 35	040 19	050 16	080 14	080 12				
	300530	P	060 11	+++ ++	060 08	050 10	050 10	010 06	350 12	010 17	010 28	010 26	020 20	040 14	070 14	090 12	120 05				
	301130	T	030 11	+++ ++	050 11	060 08	060 04	060 04	080 09	360 10	030 36	030 14	050 11	070 09	080 08	090 08	120 10	110 16			
	301730	P	350 10	+++ ++	350 10	130 04	180 07	200 10	210 06	020 06	360 15	140 03	110 09	090 06	060 05	130 10	110 14	120 06			
SHANWELL 03170	292330	T	080 10	+++ ++	110 09	150 08	230 03	290 07	250 09	280 17	280 24	270 19	310 06	100 04	110 12	110 10	120 11				
	300530	P	060 10	+++ ++	110 13	140 13	190 10	230 10	240 17	230 22	210 36	200 28	200 08	120 07	100 11	120 07	120 07	120 11			
	301130	T	090 10	+++ ++	160 16	170 14	180 14	180 15	190 17	190 24	190 42	190 45	180 27	180 12	150 11	140 10	120 10	110 12	090 08	120 17	
	301730	P	110 08	+++ ++	150 06	180 07	190 11	180 08	190 08	210 21	200 50	190 65	190 38	180 17	140 11	130 10	140 09	070 10			
ALDERGROVE 03917	292330	T	080 10	+++ ++	110 18	110 14	150 05	170 04	340 04	340 09	330 15	010 51	360 23	040 09	070 12	090 12	120 15				
	300545	P	070 08	+++ ++	120 07	120 05	120 05	240 05	270 11	300 13	340 33	350 59	350 14	050 08	090 08	090 12	120 15				
	301200	T	060 03	+++ ++	160 05	180 06	220 07	240 07	250 09	250 18	270 33	280 19	290 07	090 05	110 14	140 10	130 16	120 17			
	301730	P	000 00	+++ ++	160 06	160 07	230 10	240 11	230 17	230 23	230 38	230 29	230 13	110 05	110 08	090 10	140 11	110 13	100 17	090 14	
AUGHTON 03322	292330	T	080 10	+++ ++	150 25	160 22	160 07	150 06	300 04	290 10	250 08	210 11	200 10	180 07	130 13	140 09	110 11	110 12	090 12		
	300530	P	070 10	+++ ++	140 17	130 14	150 11	190 10	290 02	270 07	230 12	220 29	210 17	170 10	130 10						
	301130	T	080 08	+++ ++	140 12	130 10	140 07	130 05	160 04	210 11	210 27	200 43	200 39	190 19	150 11	160 12	090 16	130 11			
	301730	P	070 08	+++ ++	120 12	140 10	150 08	090 08	060 04	200 09	190 28	190 44	170 39	180 16	130 13	120 12	140 14				
HEMSBY 03496	292330	T	120 13	+++ ++	120 13	140 10	150 06	120 07	150 07	170 19	190 25	210 33	220 33	200 24	160 13						
	300530	P	120 10	+++ ++	100 09	100 10	090 10	100 08	150 13	180 18	190 27	220 40	230 36	180 20	170 14	150 15					
	301130	T	100 14	+++ ++	100 11	100 09	140 09	150 11	150 10	160 20	190 27	200 34	210 34	170 23	150 15	120 18	110 13	110 12			
	301730	P	060 15	+++ ++	060 12	090 06	080 08	160 11	160 11	170 19	160 25	150 30	160 27	170 15	150 18	140 11	130 16				
CRAWLEY 03774	292330	T	110 06	+++ ++	130 20	150 14	150 08	190 08	160 05	170 09	200 21	220 40	220 49	200 22	160 14	190 14	120 12	110 11			
	300535	P	000 00	+++ ++	120 16	100 14	090 15	040 10	130 10	160 09	190 27	210 47	210 49	170 15	170 08	130 12	150 15	110 14	100 20	090 16	090 20
	301110	T	090 06	+++ ++	090 10	100 12	110 17	100 12	170 12	180 14	190 28	170 42	190 40	170 25	150 18	170 19	090 12	120 12	090 10	090 18	100 18
	301730	P	070 07	+++ ++	080 19	110 15	100 11	110 06	200 10	180 15	180 23	160 43	160 49	160 20	170 14	140 11	120 12	090 15	090 13	080 15	
CAMBORNE 03808	292330	T	140 16	+++ ++	140 23	140 24	140 22	130 21	130 18	140 19	150 22	160 18	160 22	150 11	120 11	150 11					
	300540	P	090 10	+++ ++	130 22	130 24	120 23	110 22	080 21	090 15	110 21	130 21	140 19	140 09	120 06	100 13	130 15	110 14	090 17		
	301130	T	100 17	+++ ++	100 26	100 29	100 26	090 21	100 13	100 13	080 15	130 16	130 23	130 12	130 08	140 17	1090 10	120 15	120 14		
	301730	P	080 17	+++ ++	080 24	080 32	080 23	080 14	080 03	170 07	150 09	110 08	140 14	140 09	140 12	130 05	120 16				
VALENTIA 03953	292331	T	050 03	+++ ++	+++ ++	120 21	+++ ++	120 19													
	301130	T	090 05	090 06	+++ ++	110 08															
Ocean Weather Station 'I' 59°00'N 19°00'W	300000	P	070 11	+++ ++	070 12	080 14	070 14	040 11	350 25	340 26	310 15	350 51	360103	010 78	010 32	010 21	050 15				
	300600	P	090 10	+++ ++	030 06	030 09	010 13	360 16	360 22	350 39	360 68	360 72	360 77	360 79	360 72						
	301100	T	060 12	+++ ++	050 17	050 20	030 21	020 18	010 31	020 49	360 51	360 60	350 58	360 56	360 42	360 14	360 08				
	301800	P	360 10	+++ ++	360 07	360 06	360 12	360 17	010 21	010 39	360 43	010 50	010 45	360 43	350 43	340 39					
Ocean Weather Station 'J' 52°30'N 20°00'W	292300	T	030 28	+++ ++	030 35	030 33	030 34	030 38	040 44	030 47	030 75	030 93	030 75	020 68	360 59	010 27	020 16				
	300500	P	360 30	+++ ++	010 29	030 24	030 27	030 25	030 34	020 37	010 42	360 47	010 61	010 85	010 71	010 40	040 27	040 16	090 13	090 18	
	301100	T	360 21	+++ ++	010 23	010 26	360 28	360 29	350 36	330 41	360 64	360 72	350 80	010 71	360 34	360 08					
	301700	P	360 20	+++ ++	350 22	350 19	360 20	360 23	360 27	360 36	360 34	360 57	350 74	340 66	350 59	350 24	350 10	050 16	110 22		
LARKHILL 03743	300600	P	080 08	+++ ++	140 17	130 20	140 13	070 04	060 05	090 13	170 19	200 45	200 43	170 12	170 13						
	301025	P	090 08	+++ ++	100 14	090 14	100 11	060 13	100 12	170 10	170 24	180 52	180 45	170 20	130 14	150 18					

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
301056	56.6°N 04.7°E	013 005 833	061 08 01	104 05 02	963 02 13	1420 01 27	1905 02 37	05 39	2954 08 51					
Cloud :— 2/8Cu 2500ft to 3000ft; 3/8 As 18000ft to TNG; 4/8 C: 20000ft to TNG Inversion Levels :— 900mb to 875mb 1.1°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
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	073mb 130 11 542mb 190 42 271mb 160 42 033mb 090 08 25800m 080 10 06000/0 09900/1	170 78 07200m 170 78 08340m
STORNOWAY 03026	358mb 360 91 06840/0 09300/1 445mb 040 36 032mb 130 12 22400m 120 10	360 99 08420m
SHANWELL 03170	058mb 120 11 342mb 190 62 P30600m 080 08	190 64 08120m 190 66 08750m
ALDERGROVE 03917	348mb 010 23 126mb 110 10 9750m 340 33 20100m 110 13 02750/3 05950/0 07280/3 07700/0 09050/1 09500/1 338mb 300 51 28050m 080 12	350 70 08360m
AUGHTON 03322	P24300m 080 21 26100m 090 11 23480/5 23860/0 15000m 100 07 07010/5 044mb 080 16 19200m 130 11 10800/1	
HEMSBY 03496	133mb 160 20 11750m 190 22 17150m 150 15 04580/2 09160/0 10500/1 11970/5 035mb 110 18 19800m 090 10 02610/2	
CRAWLEY 03774	P22800m 130 08 03610/2 10141/1 11280/1 11710/1 P28800m 110 18 33000m 110 22 35400m 130 15 10530/1 28800m 090 18 30000m 080 19 02900/2 08490/0 10720/1 11190/1	
CAMBORNE 03808	25500m 080 17 P24900m 090 22 19800m 170 03	
VALENTIA 03953	975mb 060 07 747mb 120 19 715mb 120 19 998mb 090 06 819mb 120 08	
Ocean Weather Station 'I' 59°00'N 19°00'W	08980/3 13950/1 06300m 360 50 15600m 360 78 128mb 360 26 17400m 330 15	360 104 10170m 360 81 12360m 350 67 08510m
Ocean Weather Station 'J' 52°30'N 20°00'W	124mb 360 39 060mb 020 14 21900m 070 10 10620/0 11820/0 13390/0 13880/1 14750/1 181mb 010 54 08400m 360 33 14400m 350 43	030 96 08840m 010 98 13140m 350 81 10600m 350 80 10430m
LARKHILL 03743	02700/7 06250/3 11430/7 04550/3 11830/1	200 62 09550m

NOTES ON THE AEROLOGICAL SITUATION

The trough over eastern America has advanced southeast and sharpened, whilst that which was over Newfoundland yesterday has moved northeastwards to south Greenland. The Atlantic ridge has been displaced towards Iceland and the low on its forward side has moved quickly southsoutheast to a position west of Biscay. The low over the North Sea has moved slowly northwestwards whilst the trough over central Europe has swung northeast. The blocking pattern over western Russia has been maintained.

AVERAGE AND EXTREME VALUES 1951-55							
MAY							
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	22145	-50.1	-46	-55	...	...	(10)
60	19500	-50.3	-43	-60	102	2	11
100	16180	-51.4	-44	-62	283	3	13
150	13540	-51.0	-42	-62	288	7	19
200	11680	-53.8	-39	-69	288	10	27
300	9070	-48.8	-37	-56	281	11	36
400	7125	-35.0	-27	-49	282	10	32
500	5530	-23.2	-15	-38	283	8	26
700	2985	-7.0	1	-20	289	4	20
850	1450	0.9	11	-10	310	2	18
Tropopause		Press. (mb.)	Temp. (°C)	Height (gpm.)			
Average		254	-57.8	10230			
Max.		479	-39	12800			
Min.		171	-69	5545			
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	22100	-52.2	-50	-58	85	9	11
60	19480	-52.8	-46	-62	69	1	10
100	16195	-53.8	-44	-61	284	5	14
150	13590	-53.3	-46	-65	284	10	22
200	11750	-55.3	-42	-67	282	15	34
300	9140	-47.7	-38	-56	274	15	45
400	7180	-33.4	-23	-48	270	13	38
500	5580	-21.4	-11	-34	267	11	31
700	3015	-5.3	6	-16	258	7	23
850	1470	3.0	15	-6	254	5	20
Tropopause		Press. (mb.)	Temp. (°C)	Height (gpm.)			
Average		244	-58.0	10560			
Max.		405	-39	13685			
Min.		158	-72	6825			
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	...	...	...	...	180	2	8
60	19500	-59.3	-57	-66	270	6	10
100	16315	-60.2	-51	-67	270	24	25
150	13775	-59.1	-49	-71	275	40	43
200	11970	-58.9	-48	-67	275	48	53
300	9355	-43.8	-39	-49	275	42	50
400	7365	-28.2	-23	-38	275	34	40
500	5720	-16.0	-12	-28	275	27	32
700	3095	2.2	9	-9	275	16	23
850	1500	12.2	24	2	275	9	16
Tropopause		Average	Max.	Min.	Max.	Min.	
		Press.	Press.	Press.	Temp.	Temp.	
Upper		mb.	°C	mb.	°C	°C	
Lower		117	-65.1	...	80	...	
		199	-60.9	365	...	-41	

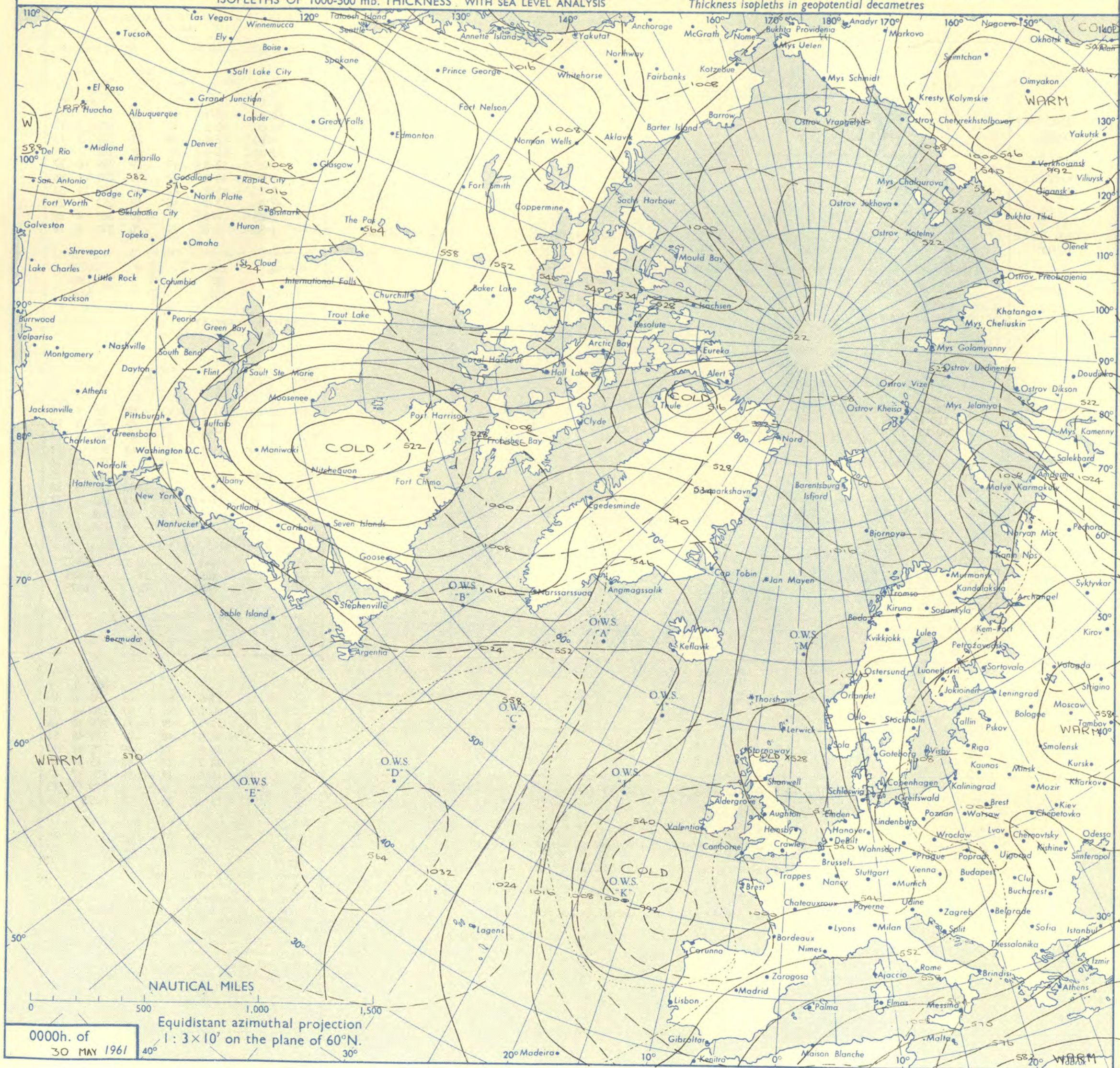
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† 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

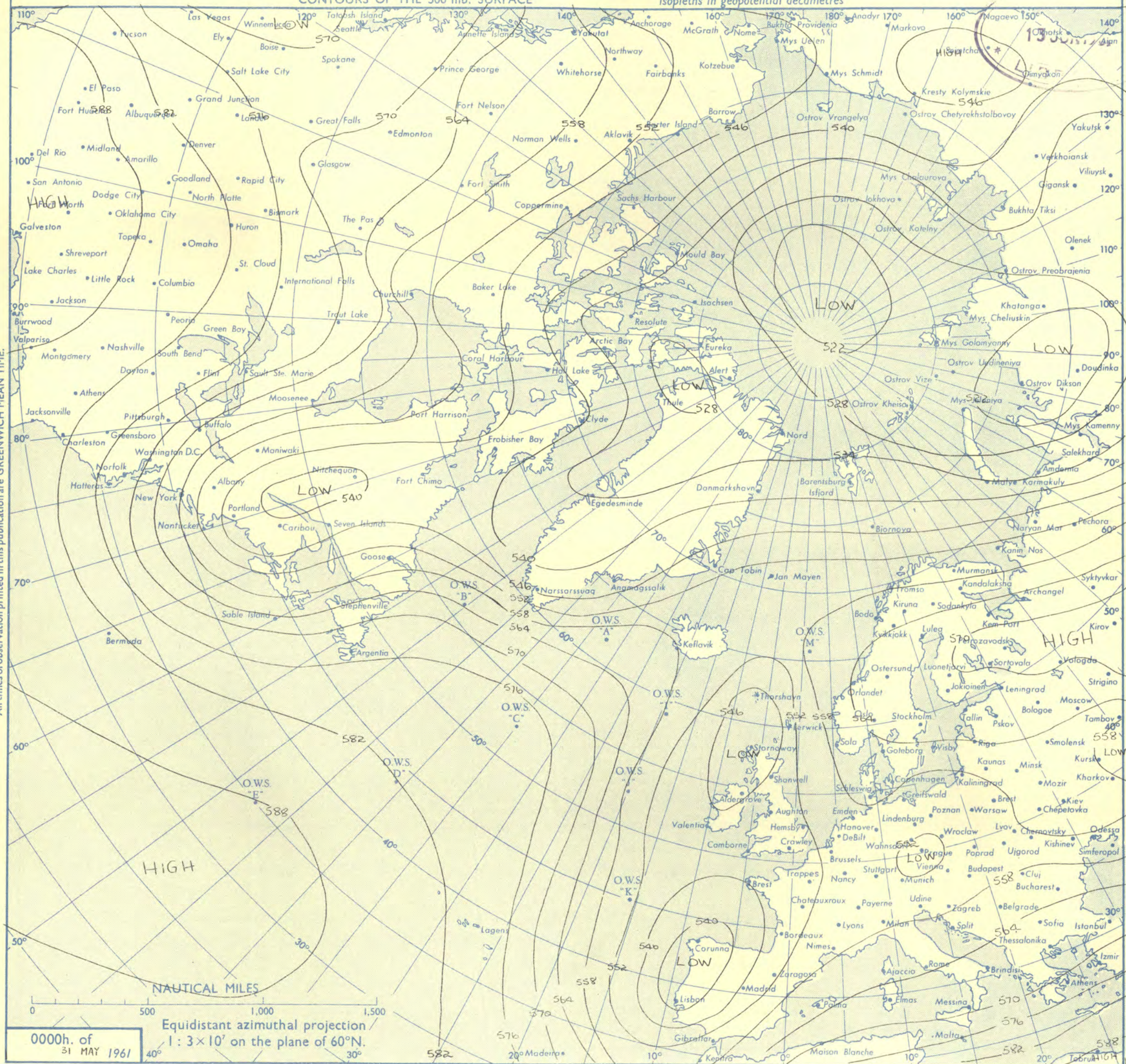
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



STATION	YYGG _{gg}	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	302330	082	06	04	116	07	04	1432	01-	15-	2965	08-	23-	5521	20-	29-	7144	30-	36-	9139	44-	++	11811	47-	13724	46-	16400	49-	18740	50-	20935	51-	24269	50-						
	311130	082	09	06	103	07	05	1424	01	11-	2970	04-	07-	5561	19-	23-	7183	31-	37-	9167	46-	++	11811	49-	13715	47-														
STORNOWAY 03026	302340	013	05	03	102	06	04	1418	01-	07-	2939	11-	27-	5431	29-	37-	6988	39-	++	8968	39-	++	11724	42-	13651	45-	16333	49-	18670	50-										
	311135	013	11	05	105	08	01	1422	02-	08-	2937	11-	18-	5460	22-	28-	7066	33-	40-	9027	46-	++	11712	47-	13605	49-	16261	50-	18570	53-	20731	54-								
SHANWELL 03170	302330	005	07	07	103	08	06	1422	00	04-	2947	09-	13-	5485	22-	29-	7097	32-	39-	9075	45-	++	11739	46-	13645	46-	16328	49-	18660	51-	20850	51-								
	311130	005	13	07	088	11	06	1413	00	03-	2942	08-	18-	5509	19-	25-	7129	31-	38-	9114	45-	++	11763	47-	13677	46-	16364	47-	18699	49-	20900	50-	24246	47-						
ALDERGROVE 03917	302330	077	08	07	080	08	06	1409	01	02-	2937	09-	12-	5462	25-	31-	7059	33-	39-	9024	46-	++	11721	45-	13637	46-	16318	48-	18658	50-										
	311130	077	13	07	082	13	07	1415	01	03-	2945	09-	13-	5485	23-	27-	7090	32-	40-	9046	47-	++	11750	44-	13675	46-	16364	47-	18708	49-	20916	50-								
AUGHTON 03322	302330	056	08	05	081	08	05	1409	00	05-	2935	09-	13-	5487	20-	25-	7107	31-	39-	9077	48-	++	11725	49-	13628	47-														
	311130	056	14	03	072	14	03	1402	00	11-	2931	08-	21-	5504	20-	32-	7120	32-	42-	9081	49-	++	11722	48-	13623	46-														
HEMSBY 03496	302330	012	09	07	074	09	06	1397	02	11-	2939	05-	17-	5533	17-	26-	7163	30-	39-	9147	46-	++	11778	53-	13670	48-	16340	49-												
	311130	012	12	05	051	10	04	1375	00	03-	2929	02-	07-	5529	18-	30-	7155	30-	38-	9139	45-	++	11787	48-	13696	47-	16373	49-	18697	51-	20883	51-								
CRAWLEY 03774	302330	144	07	05	061	++	++	1390	01	03-	2927	06-	15-	5507	19-	24-	7129	30-	34-	9109	46-	++	11754	48-																
	311130	144	13	05	040	++	++	1373	03	13-	2925	03-	25-	5511	20-	24-	7123	32-	36-	9082	48-	++	11723	48-	13620	48-	16284	49-	18569	53-	20736	53-								
CAMBORNE 03808	302330	088	08	04	043	++	++	1383	04	03-	2926	06-	14-	5490	20-	29-	7100	34-	43-	9050	49-	++	11712	47-	13620	47-	16295	48-	18632	50-	20823	52-								
	311130	088	15	03	033	++	++	1370	01	03-	2909	05-	16-	5479	21-	25-	7091	33-	37-	9039	51-	++	11678	47-	13585	48-	16246	50-	18567	52-	20752	52-	24096	47-						
VALENTIA 03953	310000	014	11	09	066	10	++	1401	03	++	2941	07-	++	5480	23-	++	7080	34-	++	9030	48-	++	11710	46-	++++	++	16290	48-												
	311131	014	13	07	073	12	07	1407	01	05-	2945	08-	25-	5490	23-	31-	7090	34-	42-	9040	47-	++	11710	46-	++++	++	16290	47-	++++	50-										
Ocean Weather Station 'I' 59°00'N 19°00'W	310100		10	07	136	09	05	1460	01-	02-	3002	06-	11-	5580	17-	25-	7220	27-	29-	9220	43-	++	11880	53-	13730	51-	16370	50-												
	311300		10	07	116	08	05	1436	02	04-	2977	06-	26-	5530	23-	36-	7130	34-	46-	9090	48-	++	11730	51-	13620	48-	16270	50-	18600	51-										
Ocean Weather Station 'J' 52°30'N 20°00'W	302300		11	09	127	11	09	1458	00	03-	3001	05-	12-	5580	19-	33-	7220	28-	42-	9220	43-	++	11870	55-	13710	55-	16310	54-	18610	52-	20780	52-								
	311100		12	09	146	10	07	1469	00	04-	3009	06-	12-	5590	29-	34-	7220	31-	37-	9200	45-	++	11840	55-	13690	53-	16320	52-	18630	53-	20800	52-								

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE			
		MSL	Surf.	0°C level		mb	m	°C	
LERWICK 03005	02 11406	014 004 859	998 07 04 936 ++ 01 920 01 02- 880 01 11- 823 ++ 15- 799 ++ 16- 778 04- 19- 756 04- 22- 740 ++ 26- 680 ++ 21- 642 12- 26- 622 12- 28- 591 14- 28- 544 16- 26- 483 ++ 32- 404 ++ 36- 369 ++ 42- 321 40- 48- 303 43- 255 51- 234 52- 225 48- 160 46- 100 49- 050 51- 030 50-			255	10200	51-	
	02 1557+	012 003 833	993 06 04 968 ++ 02 945 ++ 03- 925 03 05- 876 03 15- 871 03 12- 865 ++ 10- 835 ++ 12- 803 02- 08- 764 ++ 05- 736 02- 05- 559 13- 16- 330 40- 47- 256 53- 233 54- 216 49- 171 46- 116 48-			233	10810	54-	
STORNOWAY 03026	02 15602	013 011 878	996 07 04 962 ++ 01 902 02 00 878 00 04- 808 03- 15- 699 ++ 19- 657 14- 25- 585 21- 33- 407 40- 46- 383 36- 165 45- 068 50-			407	06860	40-	
	02 625++	013 011 881	000 08 01 919 02 02- 890 ++ 03- 873 ++ 06- 751 08- 14- 736 ++ 15- 712 ++ 18- 693 ++ 17- 545 20- 27- 519 21- 27- 468 25- 31- 348 40- 46- 290 48- 232 48- 216 46- 173 49- 097 50- 083 53- 032 53-			290	09250	48-	
SHANWELL 03170	02 54400	013 012 850	004 09 07 000 08 06 953 05 03 899 ++ 05- 842 ++ 04- 807 03- 06- 734 08- 12- 706 08- 13- 651 11- 17- 591 17- 24- 581 17- 25- 440 27- 34- 336 40- 46- 303 45- 247 52- 238 49- 198 46- 146 46- 100 49- 038 53- Pressure doubtful above 100mb.			247	10380	52-	
	02 11201	011 010 848	992 09 04 959 ++ 03 848 00 03- 816 ++ 08- 699 08- 18- 680 ++ 18- 639 10- 24- 624 09- 23- 603 ++ 26- 563 ++ 21- 480 ++ 28- 439 ++ 34- 359 36- 44- 257 53- 229 52- 195 46- 100 47- 084 51- 046 51- 032 50- 030 47- Pressure doubtful above 100mb.			257	10150	53-	
ALDERGROVE 03917	02 464++	010 000 839	999 ++ 05 985 ++ 06 945 08 03 931 ++ 01 852 01 02- 656 12- 15- 562 19- 26- 528 23- 29- 502 25- 31- 489 25- 31- 449 29- 34- 410 ++ 37- 397 33- 39- 347 40- 46- 292 47- 216 45- 060 51-			292	09180	47-	
	04 585++	010 001 829	987 11 05 911 05 02 878 ++ 01 833 ++ 05- 706 09- 12- 672 10- 14- 583 16- 22- 538 19- 24- 491 24- 28- 407 31- 39- 352 ++ 48- 315 47- 195 44- 093 47- 083 50- 063 48- 050 50-			315	08710	47-	
AUGHTON 03322	10 00906	010 003 847	995 ++ 04 946 ++ 03 913 05 02- 785 ++ 07- 748 08- 11- 729 07- 11- 690 10- 14- 672 ++ 20- 635 11- 15- 586 ++ 568 ++ 21- 520 ++ 22- 486 ++ 26- 465 23- 31- 342 40- 47- 294 49- 242 52- 190 47- 107 48-			255	10140	52-	
	01 21500	009 002 837	965 09 00 887 02 02- 836 00 16- 810 ++ 17- 738 ++ 14- 720 ++ 15- 706 09- 22- 692 07- 21- 659 07- 24- 622 09- 18- 568 13- 24- 502 20- 32- 470 23- 32- 385 ++ 44- 350 40- 48- 267 54- 206 48- 132 46- 120 49-			267	09840	54-	
HEMSBY 03496	02 485++	009 007 810	992 09 04 922 03 01 902 05 07- 892 ++ 11- 877 ++ 08- 800 ++ 14- 784 ++ 11- 757 ++ 14- 742 ++ 13- 739 05- 14- 723 05- 17- 707 05- 17- 680 06- 16- 673 06- 16- 652 06- 25- 626 06- 16- 555 13- 18- 535 12- 19- 518 ++ 24- 334 40- 46- 294 46- 233 55- 201 53- 184 48- 107 48- 089 52- 080 52-			233	10790	55-	
	02 21572	006 005 741 793	000 10 04 930 04 01 880 02 03- 844 00 03- 798 00 01- 781 01- 02- 756 01 05- 741 00 09- 690 ++ 07- 658 04- 14- 602 09- 14- 578 11- 20- 516 ++ 29- 334 40- 46- 275 50- 238 53- 174 46- 104 48- 090 51- 061 52- 042 49-			238	10650	53-	
CRAWLEY 03774	02 00900	008 990 835	952 ++ 03 941 07 00 880 ++ 01- 765 05- 07- 725 ++ 14- 699 ++ 15- 685 ++ 17- 665 ++ 17- 659 ++ 14- 638 07- 14- 445 25- 28- 337 40- 44- 281 50- 241 53- 209 48- 155 47-			241	10550	53-	
	02 11636	005 988 781	979 11 00 885 ++ 00 879 02 04- 867 04 08- 860 ++ 13- 743 02- 17- 720 02- 21- 700 ++ 25- 664 05- 25- 631 ++ 16- 585 10- 18- 516 ++ 24- 496 21- 25- 426 ++ 32- 397 ++ 37- 351 ++ 45- 270 54- 199 48- 096 50- 084 53- 032 51-			270	09770	54-	
CAMBORNE 03808	02 15700	005 995 809	981 11 05 960 10 05 938 ++ 02 880 05 02- 860 05 05- 809 00 07- 763 ++ 14- 737 04- 12- 702 ++ 13- 689 06- 14- 672 ++ 18- 646 10- 16- 635 09- 14- 548 ++ 21- 516 19- 27- 508 ++ 29- 467 24- 34- 361 40- 48- 278 53- 258 48- 096 48- 047 53- 036 52-			278	09560	53-	
	02 11578	004 994 832	972 11 02 854 ++ 02- 798 03- 09- 756 03- 13- 728 ++ 15- 703 ++ 17- 672 07- 12- 642 ++ 13- 555 15- 18- 446 26- 30- 356 40- 44- 268 57- 255 52- 222 48- 170 46- 072 52- 049 52- 045 50- 043 52- 037 48- 030 47-			268	09750	57-	
VALENTIA 03953	01 28501	008 006 800	987 10 892 05 727 05- 575 16- 482 26- 321 44- 293 49- 201 46- 132 49- 096 48- 076 52-			293	09200	49-	
	02 32400	009 007 830	948 07 02 924 07 02 862 01 03- 790 01- 20- 670 10- 23- 612 14- 26- 600 14- 25- 460 27- 34- 328 45- 262 50- 198 46- 120 49- 104 47- 070 50- 058 49-			262	09900	50-	
Ocean Weather Station 'I' 59°00'N 19°00'W	02 757++	017 017 864 827	978 ++ 05 949 07 03 886 01 01- 844 01- 03- 834 00 03- 798 01- 06- 700 06- 11- 652 ++ 16- 637 09- 15- 615 ++ 17- 603 11- 16- 577 ++ 25- 527 ++ 30- 512 16- 24- 418 26- 28- 318 40- 43- 248 50- 175 56- 146 51- 093 50-			175	12700	56-	
	25 685++	014 014 814	990 07 04 905 01 00 879 03 01- 860 ++ 04- 786 ++ 07- 746 ++ 12- 713 05- 29- 703 ++ 25- 680 ++ 38- 674 ++ 19- 654 ++ 23- 635 10- 21- 462 27- 39- 364 39- 50- 300 48- 274 51- 155 48- 066 52-			271	09800	51-	
Ocean Weather Station 'J' 52°30'N 20°00'W	02 2143+	015 015 845	895 04 01 871 02 02- 798 04- 06- 789 ++ 04- 779 01- 04- 760 ++ 08- 666 07- 13- 643 07- 10- 609 11- 18- 572 12- 22- 523 16- 29- 498 19- 33- 468 19- 35- 377 32- 45- 317 39- 50- 282 47- 198 55- 153 56- 138 53- 096 54- 038 50-			198	11900	55-	
	02 24531	017 017 848	993 09 06 961 07 03 904 03 01 810 02- 06- 771 02- 08- 680 06- 12- 670 ++ 12- 641 07- 16- 630 08- 14- 620 09- 19- 561 ++ 26- 540 ++ 22- 518 17- 26- 499 19- 25- 434 ++ 31- 381 ++ 40- 332 40- 47- 278 48- 210 57- 167 52- 051 53- 037 50-			210	11500	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	302330	T	170 05	+++ ++	160 04	160 06	200 10	210 12	170 25	170 47	170 63	180 80	190 65	160 32	160 15	170 09	130 13	110 09	100 07		
	310536	P	330 03	+++ ++	070 07	110 06	140 05	160 15	170 36	170 53	160 47	160 44	160 48	160 25	150 20	160 12	150 10	120 07			
	311130	T	030 12	+++ ++	040 09	040 06	160 28	160 32	160 33	150 42	160 40	160 46	170 42	160 25	160 14	160 15	140 08	110 09			
	311735	P	350 16	+++ ++	360 19	070 10	120 21	120 28	130 24	140 23	150 30	140 34	150 33	150 21	160 21	160 10					
STORNOWAY 03026	302340	T	000 00	+++ ++	240 07	210 07	200 12	200 15	200 15	200 14	180 28	180 29	170 21	150 11	110 11	140 07					
	310530	P	000 00	+++ ++	300 09	260 07	210 09	190 15	180 22	180 28	180 69	170 64	170 30	140 16	140 11	140 11	120 12	140 11			
	311135	T	080 09	+++ ++	350 07	230 02	170 10	180 15	170 31	160 48	160 66	160 74	160 38	150 23	140 12	150 16	150 11	100 12			
	311730	P	030 10	+++ ++	010 09	290 09	210 06	200 15	180 29	170 45	170 53	160 74	160 33	160 16	150 15	170 12					
SHANWELL 03170	302330	T	090 02	+++ ++	110 07	140 05	180 05	200 06	150 08	180 26	180 46	180 72	180 59	160 25	140 13	150 17	110 07	110 16			
	310530	P	010 05	+++ ++	030 03	020 05	020 04	120 05	160 12	160 26	160 40	160 57	160 48	160 21	140 17	140 12	130 16	110 15			
	311130	T	090 06	+++ ++	020 06	360 11	020 08	050 06	150 21	160 30	150 42	150 53	150 49	150 23	150 13	150 12	140 16	120 10	110 12	090 13	
	311730	P	090 08	+++ ++	010 13	350 15	340 17	110 06	160 19	160 26	150 33	150 33	160 32	170 19	150 19	140 12	110 10	140 13			
ALDERGROVE 03917	302330	T	020 05	+++ ++	120 09	170 13	170 14	180 08	190 11	210 22	190 33	180 34	180 18	150 12	110 10	110 10	100 12				
	310530	P	000 00	+++ ++	150 10	150 10	130 08	050 03	170 06	180 16	160 28	160 29	140 22	140 12	120 15	120 11	120 18	100 14			
	311130	T	360 02	+++ ++	080 05	090 05	040 06	040 07	060 05	180 16	180 24	170 30	170 27	140 16	130 11	130 18	110 15				
	311730	P	350 09	+++ ++	350 07	020 07	020 06	010 09	360 03	190 12	180 35	170 46	160 19	160 06	140 15	130 07	120 13	110 10			
AUGHTON 03322	302330	T	070 11	+++ ++	120 15	090 09	070 10	070 03	110 07	170 17	170 30	160 55	160 51	150 20	140 18						
	310530	P	100 06	+++ ++	060 09	070 10	060 15	080 14	130 09	180 18	170 34	150 49	150 41	150 19	130 15	150 16	120 13				
	311130	T	040 12	+++ ++	050 12	050 15	060 18	070 12	170 09	160 15	160 17	160 32	150 40	160 20	140 19						
	311730	P	330 11	+++ ++	040 13	030 15	030 11	040 03	200 03	140 13	150 17	140 26	150 24	150 18	130 15	140 15	100 11	100 11	110 12		
HEMSBY 03496	302330	T	060 10	+++ ++	030 10	020 09	080 06	130 07	150 14	130 17	140 24	140 24	130 29	150 21	150 13	130 15					
	310530	P	010 12	+++ ++	020 15	030 10	020 07	090 09	130 10	130 17	140 25	130 28	130 22	150 19	140 19	120 15	130 10	100 13	090 16		
	311130	T	020 15	+++ ++	010 16	010 15	070 06	110 10	150 12	140 15	140 21	130 26	140 28	150 20	150 17	140 16	120 14	130 11			
	311730	P	360 16	+++ ++	360 31	010 12	090 10	110 12	130 07	140 15	140 16	140 25	130 28	150 17	130 19	140 15	110 14				
CRAWLEY 03774	302330	T	060 04	+++ ++	090 21	090 17	090 11	140 04	200 08	170 14	160 22	160 28	150 51	160 21							
	310530	P	060 08	+++ ++	070 22	080 24	100 17	100 09	150 08	160 17	130 10	150 19	150 30	170 18	150 19	140 18	130 14	100 16	090 14	090 15	
	311110	P	060 10	+++ ++	050 21	090 16	100 13	140 08	140 10	150 11	150 19	140 33	150 25	150 19	160 20	140 15	130 15	100 10	090 13	110 19	090 24
	311730	P	070 08	+++ ++	050 15	040 14	060 08	340 04	070 04	160 03	210 09	210 31	160 29	160 15	150 12	130 15	140 14	090 15	090 14		
CAMBORNE 03808	302330	T	050 03	+++ ++	090 25	080 24	070 19	070 14	160 07	210 10	220 23	220 22	180 14	140 14	140 15	130 16	130 07	090 20	110 11	090 18	
	310540	P	070 12	+++ ++	080 19	070 21	060 19	090 11	090 05	130 14	150 14	180 23	150 17	140 11	120 13	110 06					
	311130	T	050 12	+++ ++	070 18	070 20	080 15	070 11	110 14	120 12	130 22	130 26	130 17	130 11	140 12	120 16	130 12	130 16	110 19		
	311730	P	360 18	+++ ++	050 17	050 15	050 18	050 14	080 06	110 08	180 15	180 29	140 18	120 09	110 08	140 10	140 06	130 07			
VALENTIA 03953	310001	T	040 02	040 03	+++ ++	040 10	+++ ++	040 10													
	311131	T	030 13	030 13	+++ ++	050 08	+++ ++	020 16	360 19	350 17	020 15	010 20	+++ ++	020 13	+++ ++	120 13	110 13				
Ocean Weather Station 'I' 59°00'N 19°00'W	310100	T	080 06	+++ ++	330 02	330 08	340 21	340 23	340 20	350 30	340 42	350 37	350 43	350 40	350 15	350 07					
	310600	P	270 10	+++ ++	310 13	310 11	320 12	340 18	340 24	340 37	340 37	340 36	330 41	330 45	360 09	070 12					
	311300	T	320 19	+++ ++	320 16	320 15	310 27	320 29	340 36	330 37	330 40	330 44	310 26	300 10	260 13	200 05					
	311800	P	270 10	+++ ++	280 15	310 18	330 28	310 26	310 28	310 27	310 35	310 51	310 51	330 26	290 05						
Ocean Weather Station 'J' 52°30'N 20°00'W	302300	T	010 15	+++ ++	010 17	020 18	010 24	010 25	360 31	360 41	010 61	340 55	340 47	340 45	360 37	360 14	060 15	060 11			
	310500	P	360 10	+++ ++	010 20	010 17	010 16	010 23	010 28	360 33	350 34	350 33	360 57	340 20	350 20	040 13	090 10	110 08	090 16		
	311100	T	010 10	+++ ++	360 17	360 15	350 25	350 28	360 44	360 37	360 39	340 35	320 33	300 37	310 23	340 04	080 18	110 08			
	311700	P	360 10	+++ ++	360 21	360 15	350 24	350 35	360 37	360 41	350 42	350 62	340 46	340 24	360 14	050 09					
LARKHILL 03743	310600	P	030 08	+++ ++	080 19	080 15	070 12	070 06	150 08	150 14	170 12	150 30	150 28	150 19	130 15	120 16	120 14				
	311035	P	040 15	+++ ++	060 17	080 17	100 16	100 10	120 10	160 11	140 15	140 30	150 25	150 17	150 21	150 13					

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		

UPPER WINDS AT ADDITIONAL LEVELS

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STATION		MAX. WIND
LERWICK 03005	23100m 080 12 03350/0 P22800m 140 17 140 12 17100m	180 81 08880m
STORNOWAY 03026	072mb 110 10 06300m 180 58 05890/0 06300/0 09810/1 10290/1 037mb 140 12 17900m 120 15 01210/5 01970/5 05640/0 07450/0 09380/1 09840/1	170 74 08200m 160 78 09200m 170 75 08690m
SHANWELL 03170	P22500m 100 18 22200m 110 10 10520/1 P29700m 120 14 21900m 110 10 02960/8	180 76 09040m
ALDERGROVE 03917	063mb 130 15 21800m 100 15 03700/9 527mb 160 14 054mb 100 09 04780/8	
AUGHTON 03322	232mb 170 32 113mb 140 21 11150m 150 27 19800m 130 21 03750/2 10750/1 128mb 140 19	160 63 09670m
HEMSBY 03496	085mb 110 12 046mb 110 11 20100m 110 09 01880/2	
CRAWLEY 03774	166mb 170 16 01950/4 28800m 100 23 33000m 090 17 34500m 120 13 25200m 090 16 08400/0 09800/1	
CAMBORNE 03808	17400m 110 15 P25200m 120 18 08370/5 09770/2 10290/1	
VALENTIA 03953	987mb 040 04 892mb 040 08 727mb 040 11 575mb 040 11 948mb 050 11 924mb 050 12 790mb 040 16 262mb 010 23 120mb 100 13 058mb 110 13	
Ocean Weather Station 'I' 59°00'N 19°00'W	171mb 350 26 12900m 330 23 03180/0 12570/1 15420/2 080mb 200 05 12900m 310 15 08720/0 10250/0 11560/1	
Ocean Weather Station 'J' 52°30'N 20°00'W	040mb 050 10 127mb 340 10 080mb 080 21 040mb 100 15 18000m 090 07	020 63 06960m 360 61 10300m 350 68 09120m
LARKHILL 03743	02910/4 06630/2 01760/2	

NOTES ON THE AEROLOGICAL SITUATION

The trough over eastern Canada has continued to move southeast. The ridge over mid-Atlantic has moved east and the low on its forward side which yesterday was west of Biscay has continued its southeast movement. This low is now lying over north Portugal and is filling slowly. The low off northwest Scotland has moved slowly westwards and is also filling. The trough over central Europe has continued to move northeast and a small closed centre has developed south of Berlin. The blocking pattern over northwest Russia has been maintained.

AVERAGE AND EXTREME VALUES 1951-55

MAY

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	22145	-50.1	-46	-55	...	(10)
60	19500	-50.3	-43	-60	102	2 11
100	16180	-51.4	-44	-62	283	3 13
150	13540	-51.0	-42	-62	288	7 19
200	11680	-53.8	-39	-69	288	10 27
300	9070	-48.8	-37	-56	281	11 36
400	7125	-35.0	-27	-49	282	10 32
500	5530	-23.2	-15	-38	283	8 26
700	2985	-7.0	1	-20	289	4 20
850	1450	0.9	11	-10	310	2 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	254	-57.8	10230
Max.	479	-39	12800
Min.	171	-69	5545

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	22100	-52.2	-50	-58	85	9 11
60	19480	-52.8	-46	-62	69	1 10
100	16195	-53.8	-44	-61	284	5 14
150	13590	-53.3	-46	-65	284	10 22
200	11750	-55.3	-42	-67	282	15 34
300	9140	-47.7	-38	-56	274	15 45
400	7180	-33.4	-23	-48	270	13 38
500	5580	-21.4	-11	-34	267	11 31
700	3015	-5.3	6	-16	258	7 23
850	1470	3.0	15	-6	254	5 20

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	244	-58.0	10560
Max.	405	-39	13685
Min.	158	-72	6825

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	...	...	...	...	180	2 8
60	19500	-59.3	-57	-66	270	6 10
100	16315	-60.2	-51	-67	270	24 26
150	13775	-59.1	-49	-71	275	40 43
200	11970	-58.9	-48	-67	275	48 53
300	9355	-43.8	-39	-49	275	42 50
400	7365	-28.2	-23	-38	275	34 40
500	5720	-16.0	-12	-28	275	27 32
700	3095	2.2	9	-9	275	16 23
850	1500	12.2	24	2	275	9 16

Tropo- pause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb.	°C	mb.	mb.	°C	°C
Lower	117	-65.1	...	80	...	-71
	199	-60.9	365	...	-41	...

* 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.

