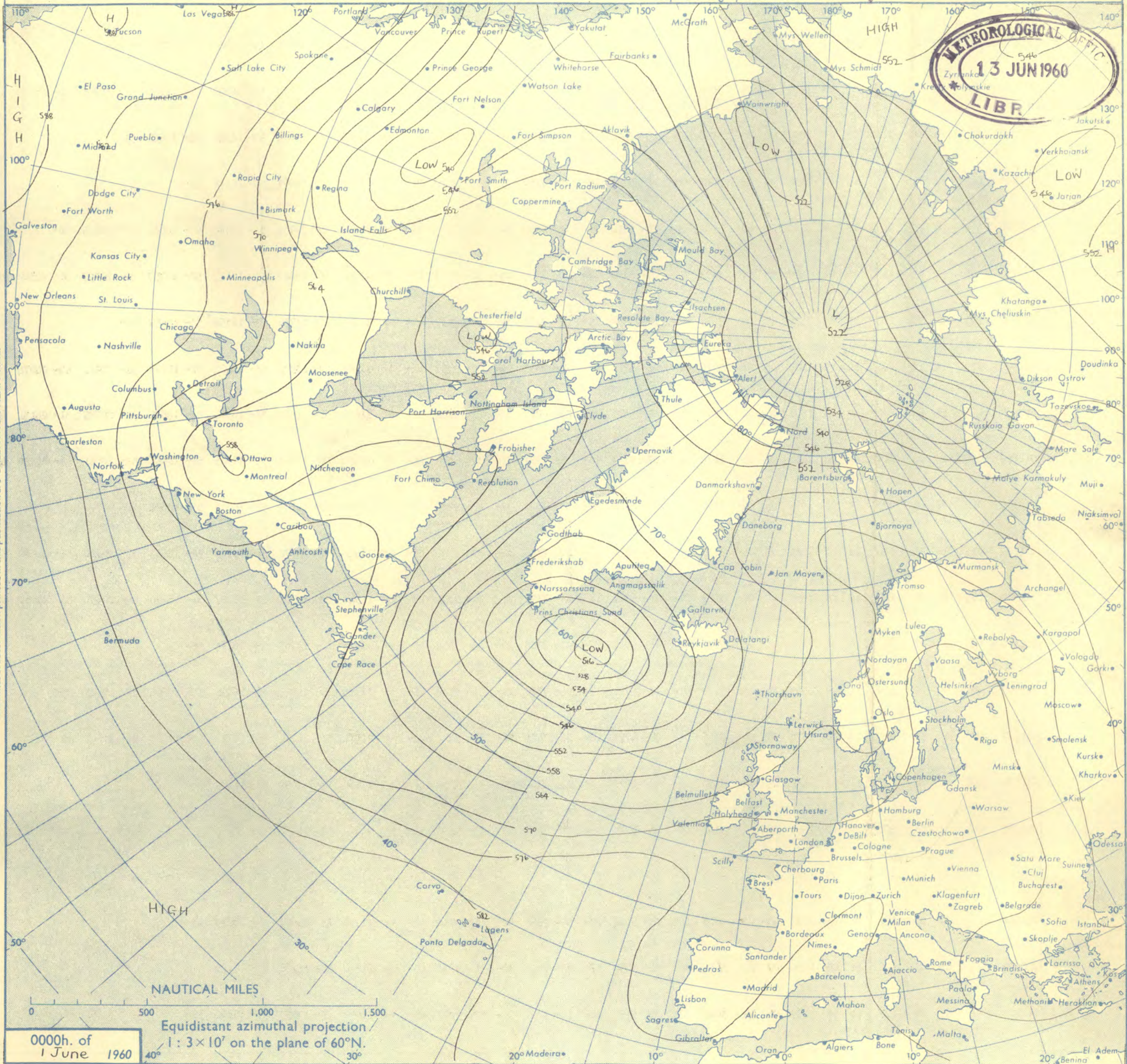


CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



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

0000h. of  
1 June 1960Equidistant azimuthal projection  
1:3 x 10<sup>7</sup> 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		
LERWICK 03005	312245	082	09	09	185	09	07	1521	02	02-	3066	07-	09-	5625	22-	29-	7230	34-	38-	9180	50-	++	11814	49-	13705	49-	16365	50-	18693	50-				
	011100	082	12	10	169	10	08	1508	04	01	3056	06-	09-	5615	22-	28-	7231	30-	43-	9211	45-	++	11852	50-	13733	51-	16372	51-	18690	49-	20898	49-	24269	46-
STORNOWAY 03026	312300	013	10	08	176	09	07	1507	02	05-	3050	07-	15-	5604	23-	27-	7204	34-	40-	9160	47-	++	11811	48-	13694	50-	16346	51-	18661	51-				
	011100	013	12	11	161	11	10	1496	04	03	3047	04-	21-	5627	19-	26-	7252	31-	37-	9217	47-	++	11814	53-	13667	53-	16278	53-						
SHANWELL 03170	312300	005	08	07	187	13	08	1529	04	05-	3081	05-	08-	5652	20-	26-	7260	34-	40-	9200	51-	++	11824	49-	13705	51-	16338	52-	18651	51-	20845	50-		
	011133	005	17	11	193	14	09	1539	03	01	3099	03-	07-	5700	17-	20-	7335	29-	37-	9333	43-	++	11950	56-	13812	53-	16437	52-	18757	50-	20957	50-	24322	47-
ALDERGROVE 03917	312300	077	13	10	188	12	09	1530	03	02	3075	04-	11-	5658	19-	23-	7278	32-	36-	9237	49-	++	11870	51-	13736	52-	16358	53-	18659	53-				
	011100	077	14	10	198	12	09	1538	06	04	3110	02-	06-	5716	16-	26-	7352	29-	36-	9352	43-	++	11965	57-	13809	53-	16422	52-	18728	51-	20921	50-	24274	49-
AUGHTON 03322	312300	056	11	08	203	12	04	1551	04	02	3102	03-	09-	5678	20-	29-	7294	32-	43-	9244	51-	++	11839	51-	13699	53-	16306	54-	18606	52-	20789	51-	24131	49-
	011112	056	18	08	217	14	04	1564	06	03-	3132	02-	07-	5731	18-	25-	7357	31-	37-	9336	46-	++	11930	58-	13767	54-	16365	54-	18666	52-	20861	49-	24250	45-
HEMSBY 03496	312300	012	07	05	207	09	05	1545	05	06-	3110	02-	28-	5700	20-	29-	7320	32-	43-	9283	49-	++	11884	53-	13740	53-	16343	55-	18634	54-				
	011100	012	14	10	224	12	06	1566	05	04-	3133	02-	19-	5724	19-	27-	7346	32-	39-	9321	46-	++	11928	57-	13772	54-	16366	56-	18637	55-	20790	55-	24080	53-
CRAWLEY 03774	312300	144	08	07	212	10	08	1558	05	02-	3122	01-	33-	5721	18-	35-	7351	29-	39-	9335	47-	++	11947	53-	13801	53-	16407	54-	18695	54-	20855	53-	24162	50-
	011100	144	18	10	219	16	07	1569	04	01	3140	01-	18-	5738	19-	27-	7368	29-	45-	9354	46-	++	11948	58-	13785	55-	16375	55-						
CAMBORNE 03808	312300	088	09	09	210	11	09	1555	06	13-	3129	01-	11-	5740	17-	24-	7382	28-	34-	9378	45-	++	11975	60-	13795	56-	16391	55-	18665	55-	20823	53-		
	011100	088	16	12	226	13	08	1574	08	06-	3156	01	06-	5777	16-	21-	7421	28-	33-	9422	44-	++	12014	64-	13814	56-	16398	55-	18672	54-	20841	50-		
VALENTIA 03953	010130	014	13	11	197	11	09	1532	05	02-	3100	02-	03-	5720	17-	18-	7360	28-	34-	9360	44-	++	11950	63-	++++	++	16380	54-						
	011200	014	14	13	200	12	11	1556	08	06	3141	00	03-	5770	15-	22-	7420	27-	35-	9430	43-	++	11204	59-	16470	53-								
Ocean Weather Station 'I'  59°00'N 19°00'W	312300		09	05	068	08	03	1384	03-	04-	2899	09-	16-	5440	22-	36-	7050	33-	44-	9020	45-	++	11700	47-	13610	47-	16290	48-	18640	49-	20840	50-		
	011100		10	05	077	08	03-	1391	03-	06-	2909	10-	23-	5450	22-	35-	7060	32-	40-	9030	47-	++	11710	45-	13610	49-	16270	47-						
Ocean Weather Station 'J'  52°30'N 20°00'W	312300		12	09	128	10	05	1460	07	14-	3034	00	24-	5650	17-	28-	7280	30-	38-	9270	45-	++	11870	59-	13700	55-								
	011100		11	06	147	10	06	1479	06	04	3047	02-	06-	5650	18-	26-	7280	29-	33-	9270	45-	++	11890	59-	13720	55-	16300	55-						



## PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE			TROPOPAUSE	
		MSL Surf. 0°C level				mb m °C
LERWICK 03005	46 860++	023 013 797	981 10 05 910 ++ 00 875 ++ 01 793 ++ 06- 755 03- 05- 725 04- 07- 678 09- 11- 663 ++ 12- 621 10- 22- 607 ++ 17- 585 ++ 20- 550 ++ 20- 525 ++ 22- 514 ++ 26- 494 ++ 29- 450 ++ 30- 357 40- 43- 263 56- 223 47- 100 50- 053 47-			263 10000 56-
	01 36032	021 011 790	011 12 10 992 09 07 959 10 05 926 08 00 797 ++ 02- 765 ++ 07- 675 08- 11- 628 11- 15- 575 ++ 24- 540 17- 25- 483 24- 30- 462 23- 33- 336 40- 50- 300 45- 235 55- 224 51- 100 51- 030 46-			235 10810 55-
STORNOWAY 03026	03 35730	021 020 814	971 ++ 04 947 07 01- 876 ++ 03- 815 ++ 08- 762 ++ 06- 738 04- 10- 700 ++ 15- 671 09- 14- 652 ++ 16- 609 12- 16- 541 ++ 23- 501 ++ 27- 415 32- 38- 355 40- 46- 279 50- 254 52- 197 48- 162 51- 122 49- 082 52- 055 49-			254 10240 52-
	01 474++	019 018 785	967 08 07 891 06 05 813 ++ 01 779 ++ 17- 755 ++ 17- 735 ++ 26- 715 ++ 19- 684 05- 23- 638 ++ 17- 553 ++ 20- 466 22- 32- 346 40- 45- 236 58- 222 58- 196 52- 162 55- 138 52- 093 52-			236 10780 58-
SHANWELL 03170	10 25600	023 022 785	010 14 09 925 ++ 05 888 ++ 00 875 ++ 00 865 04 02- 845 04 06- 822 ++ 14- 807 ++ 12- 785 00 05- 756 ++ 04- 735 04- 07- 719 03- 08- 630 10- 12- 548 16- 19- 466 24- 31- 365 40- 46- 296 52- 264 56- 251 52- 202 49- 117 53- 036 50-			264 10010 56-
	02 685++	023 022 742	017 15 09 901 06 04 885 ++ 03 853 ++ 03 828 ++ 01- 799 01 00 780 03 01 734 ++ 05- 656 07- 09- 630 ++ 24- 620 06- 21- 585 ++ 15- 500 17- 20- 467 ++ 25- 448 ++ 32- 393 30- 38- 317 40- 49- 249 54- 219 58- 202 58- 187 51- 095 52- 030 47-			219 11380 58-
ALDERGROVE 03917	02 355++	023 013 798	954 ++ 05 856 ++ 03 818 01 01- 725 04- 06- 703 04- 10- 687 05- 14- 610 ++ 12- 579 11- 15- 447 25- 30- 352 40- 45- 332 44- 290 51- 250 53- 226 51- 070 53-			250 10423 53-
	21 3567+	023 014 731	951 08 06 797 04 02 640 06- 10- 554 11- 21- 436 24- 31- 330 38- 48- 231 58- 211 59- 180 54 102 52- 030 49-			211 11620 59-
AUGHTON 03322	02 00902	025 018 794	013 12 08 008 12 04 980 ++ 05 966 ++ 01 954 11 04 940 10 05 856 ++ 03 780 01- 07- 771 01- 07- 764 01- 20- 735 01- 19- 720 02- 09- 700 ++ 09- 654 06- 14- 618 ++ 16- 593 12- 16- 560 ++ 17- 545 16- 22- 535 17- 21- 518 ++ 28- 505 ++ 27- 480 22- 31- 441 27- 36- 423 29- 40- 356 40- 49- 281 55- 254 59- 236 57- 230 53- 200 51- 096 54- 030 49-			254 10310 59-
	02 00902	026 019 729	000 14 04 930 09 04 911 08 08- 879 06 07- 870 07 03- 823 04 07- 805 ++ 07- 785 03 15- 760 02 16- 746 01 04- 720 ++ 04- 708 ++ 06- 638 07- 11- 621 08- 15- 603 08- 26- 586 ++ 32- 577 09- 28- 511 ++ 24- 406 ++ 35- 394 32- 39- 335 40- 50- 266 52- 215 61- 191 54- 109 53- 105 56- 099 54- 030 45-			215 11490 61-
HEMSBY 03496	02 00900	025 024 729	015 ++ 03 010 09 05 970 07 03 961 ++ 04 940 09 02- 918 08 02- 889 07 00 860 06 08- 850 ++ 06- 838 05 18- 711 01- 27- 651 05- 33- 617 08- 20- 522 ++ 29- 490 21- 29- 450 24- 38- 347 40- 48- 258 58- 235 56- 226 53- 210 55- 200 53- 058 55-			258 10220 58
	02 00901	027 025 772	975 11 04 934 09 01- 910 ++ 02 889 ++ 01- 860 ++ 00 838 05 06- 759 03 20- 697 02- 19- 663 ++ 13- 646 ++ 15- 590 10- 16- 540 ++ 21- 469 22- 31- 409 ++ 38- 388 33- 39- 338 40- 46- 265 52- 217 58- 185 54- 095 56- 030 53-			217 11400 58-
CRAWLEY 03774	02 00908	026 008 728	999 11 08 971 11 08 957 ++ 09 909 09 01 850 05 02- 842 ++ 01- 782 ++ 19- 683 ++ 37- 674 02- 29- 630 ++ 23- 459 ++ 40- 402 29- 40- 350 ++ 44- 263 54- 221 56- 202 53- 100 54- 043 54- 030 50- Pressure suspect above 80mb.			263 10200 54-
	03 51501	026 009 710	004 16 08 990 ++ 05 900 ++ 04 851 04 01 826 06 14- 800 ++ 30- 758 03 33- 695 ++ 16- 672 ++ 22- 581 11- 27- 555 ++ 22- 500 ++ 27- 456 ++ 36- 389 31- 47- 333 ++ 50- 290 48- 215 61- 186 55- 100 55- 074 56-			215 11500 61-
CAMBORNE 03808	02 00901	026 015 710	004 11 09 975 ++ 02 959 ++ 04 908 09 04- 853 06 12- 813 06 17- 770 ++ 17- 721 ++ 09- 682 ++ 14- 598 07- 20- 518 15- 21- 445 22- 29- 325 40- 46- 218 61- 205 62- 198 59- 141 55- 074 56- 032 52-			205 11810 62-
	02 11501	027 016 692	005 14 09 903 ++ 03 896 07 01 864 ++ 06- 835 08 05- 757 03 09- 739 03 06- 644 ++ 10- 577 10- 13- 561 10- 14- 458 ++ 27- 318 40- 45- 240 57- 198 64- 160 56- 076 56- 051 51- 039 50-			198 12090 64-
VALENTIA 03953	02 7552+	024 022 780	864 03 02 844 05 05- 835 05 10- 825 05 11- 773 02 01 615 06- 09- 491 18- 19- 474 19- 22- 363 32- 39- 383 39- 44- 202 65- 187 55- 131 56- 123 54- 070 54-			202 11900 65-
	50 862++	024 022 700	002 12 11 929 10 08 756 04 02 641 04- 07- 595 06- 11- 297 43- 218 60- 125 53- 096 53- 045 54-			218 11500 60-
Ocean Weather Station 'I' 59°00'N 19°00'W	25 68500	007 007 891	993 07 02 883 01- 03- 759 08- 10- 726 08- 13- 684 09- 20- 640 ++ 28- 474 24- 40- 345 40- 50- 258 50- 249 46- 229 49- 217 46- 099 48- 095 47- 042 50-			258 10000 50-
	01 42501	009 009 892	997 08 02 935 02 01- 907 01 03- 786 ++ 15- 765 ++ 14- 738 07- 17- 722 ++ 21- 689 11- 24- 522 20- 37- 392 33- 41- 348 40- 47- 308 47- 273 51- 260 51- 247 46- 184 46- 154 49- 114 49- 114 49- 096 47- 071 49-			273 09600 51-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 45500	016 016 702	969 ++ 02 913 ++ 02 891 02 01- 865 07 09- 852 ++ 14- 753 ++ 13- 728 02 22- 684 02- 23- 630 04- 19- 556 ++ 18- 518 ++ 22- 497 ++ 30- 449 23- 38- 394 ++ 38- 330 40- 49- 244 55- 205 60- 166 54- 146 56- 130 53- 105 53-			205 11700 60-
	02 756++	018 018 729	964 06 03 928 04 02 911 06 04 859 06 04 819 ++ 01 719 01- 05- 654 06- 08- 632 05- 15- 567 ++ 21- 549 13- 21- 512 17- 26- 447 23- 27- 326 40- 44- 298 46- 229 55- 220 57- 196 58- 180 59- 145 54- 131 56- 093 54-			200 11890 59-



STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 900m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	312245	P	190 08	+++ ++	200 14	200 11	210 10	220 09	200 15	200 18	220 18	240 19	250 15	240 14	210 12	200 07	090 06				
	010500	P	140 09	+++ ++	180 15	190 14	200 18	210 18	210 21	220 20	240 22	240 22	260 25	260 16	220 14	230 06	110 07	070 11	080 22	080 30	
	011100	T	180 11	+++ ++	200 13	200 16	200 20	220 18	240 18	230 27	280 37	300 51	290 52	250 22	250 15	220 06	220 07	110 12	100 22		
	011700	P	200 15	+++ ++	230 16	240 24	240 25	260 22	270 29	270 31	280 33	270 39	280 46	270 27	260 18	240 06	250 02	100 09			
STORNOWAY 03026	312300	T	190 09	+++ ++	200 15	190 19	210 16	210 19	210 22	220 25	230 22	240 27	260 33	250 22	240 15	220 09	130 02				
	010500	P	180 10	+++ ++	200 28	210 25	210 27	230 25	230 26	240 31	270 45	280 57	280 59	260 26	240 16	210 07	130 05	110 10	090 24	080 27	090 34
	011100	T	200 20	+++ ++	230 34	230 32	240 34	250 35	250 40	260 43	260 34	260 46	250 44	250 31	230 19						
	011700	F	170 10	+++ ++	210 12	220 31	220 27	230 22	250 28	250 25	250 30	250 36	260 38	250 35	250 18	240 14	090 02	120 07	080 16	100 18	080 33
SHANWELL 03170	312300	T	000 00	+++ ++	240 16	230 15	220 19	220 18	210 20	250 26	260 30	280 40	260 24	270 19	250 11	190 07	090 05	090 22			
	010500	P	000 00	+++ ++	240 15	240 20	230 23	240 22	260 30	250 30	270 31	310 56	310 58	290 25	280 06	240 11	080 06	090 09			
	011133	T	290 05	+++ ++	230 20	230 24	250 24	260 27	270 22	280 34	280 32	290 33	290 34	280 30	260 13	180 06	120 02	090 12	100 18	P090 21	
	011700	P	270 08	+++ ++	230 17	240 19	250 20	260 18	270 17	270 20	260 26	260 26	270 29	270 25	270 14	220 09	140 02	100 11	090 22		
ALDERGROVE 03917	312300	T	180 07	+++ ++	220 16	210 17	210 18	220 21	240 30	240 33	250 34	270 36	300 52	280 30	280 11	250 11					
	010500	P	180 06	+++ ++	220 19	220 21	240 20	260 25	270 24	280 29	290 42	280 44	290 41	300 28	260 16	250 07	090 05	110 09	090 22		
	011100	T	180 13	+++ ++	240 20	250 18	250 21	260 25	250 29	260 25	250 24	250 28	260 31	260 24	250 09	200 03	120 04	080 11	100 18		
	011700	P	190 07	+++ ++	220 16	230 19	230 19	240 19	240 21	250 20	280 34	270 33	260 34	250 21	230 08	240 11	030 04	100 12	090 19	090 20	
AUGHTON 03322	312300	T	000 00	+++ ++	240 09	200 14	240 13	250 14	260 17	280 19	270 18	310 40	290 30	280 21	260 11	260 05	P340 01	080 17	090 22	080 24	
	010500	P	120 08	+++ ++	220 10	230 17	230 19	250 15	260 19	270 20	320 38	320 49	320 47	310 24	280 11	280 08	100 06	110 13			
	011112	T	310 08	+++ ++	240 06	250 06	270 11	280 13	290 11	310 17	310 28	310 24	310 27	290 17	260 10	170 03	P120 04	080 13	100 18		
	011700	P	300 10	+++ ++	240 08	230 10	250 07	300 06	300 14	240 13	270 17	280 19	270 24	280 18	280 09	290 03	130 06				
HEMSBY 03496	312300	T	170 02	160 04	030 06	260 01	280 05	270 05	260 09	270 11	270 15	290 19	270 24	270 19	260 11	260 06	190 01				
	010500	P	000 00	+++ ++	340 04	010 05	240 05	280 06	270 12	270 11	340 17	280 17	320 28	290 16	290 11	300 07	090 07	090 09	090 21	080 30	
	011100	T	100 10	+++ ++	350 05	330 03	300 05	300 05	310 10	280 10	260 15	350 44	350 47	340 21	310 09	290 05	090 03	080 09	100 15		
	011700	P	140 10	+++ ++	360 05	330 08	350 09	330 05	310 09	320 10	340 21	350 24	340 30	340 23	300 11	320 05	130 03	080 12			
CRAWLEY 03774	312300	T	000 00	+++ ++	050 04	350 03	330 03	310 04	280 07	290 13	280 15	280 18	300 24	290 22	270 15	260 05	P280 01	070 10	080 20		
	010500	P	000 00	+++ ++	010 05	340 06	330 07	320 06	310 09	310 15	320 17	320 25	330 40	310 17	310 13	300 07					
	011040	P	000 00	+++ ++	340 03	360 04	350 05	320 07	310 08	300 10	340 26	350 37	350 47	340 23	310 06	310 06	150 03	070 10	090 21	090 24	
	011700	P	210 05	+++ ++	020 04	010 09	350 08	010 05	340 10	350 18	350 27	340 25	330 24	340 27	300 10	290 04	030 06				
CAMBORNE 03808	312300	T	000 00	+++ ++	160 04	190 04	240 06	310 11	300 16	310 25	310 24	320 40	310 47	300 44	300 19	260 07	240 06	060 09			
	010500	P	000 00	+++ ++	280 03	230 05	260 05	290 11	300 12	310 23	310 29	320 28	330 30	320 28	290 13	260 04	080 09	080 06	080 24		
	011100	T	340 09	+++ ++	170 01	340 01	300 12	290 12	300 15	310 18	310 19	300 22	300 18	290 15	290 08	320 03	150 05	080 12			
	011700	P	330 08	+++ ++	200 03	140 03	010 03	320 07	300 11	310 17	300 15	300 19	280 23	280 18	270 06	250 06	060 06	110 10			
VALENTIA 03953	010130	T	220 07	210 18	+++ ++	230 29	+++ ++	260 28	+++ ++	280 34	280 40	290 45	+++ ++	290 32							
	011200	T	220 10	220 15	+++ ++	230 18	+++ ++	250 26	+++ ++	250 31	270 30	270 27	+++ ++	260 28	+++ ++	220 07					
Ocean Weather Station 'I' 59°00'N 19°00'W	312300	T	230 15	+++ ++	220 22	210 22	200 20	190 21	200 24	200 26	210 28	250 63	230 51	230 34	210 28	190 16	180 06	100 11			
	010600	P	180 20	+++ ++	220 25	220 24	230 27	210 31	210 39	180 57	210 90	230 55	240 36	220 23	210 15	170 10					
	011100	T	230 21	+++ ++	240 27	240 28	230 29	240 33	240 52	240 73	250 94	250 102	240 75	230 41	210 21	180 10					
	011700	P	180 20	+++ ++	190 23	200 26	200 26	210 33	220 59	230 63	220 63	220 75	230 65	230 30	230 15	240 06					
Ocean Weather Station 'J' 52°30'N 20°00'W	312300	T	250 10	+++ ++	250 19	260 30	250 33	250 37	250 45	250 42	250 48	240 54	240 54	240 51	240 45	260 25					
	010500	P	270 10	+++ ++	230 19	220 26	220 30	220 34	220 32	220 34	220 50	220 52	220 47	220 39	220 23	210 13	140 05				
	011100	T	230 31	+++ ++	220 19	230 28	230 30	230 31	230 36	240 35	240 46	240 42	240 33	230 31	220 29	250 12					
	011700	P	180 20	+++ ++	210 36	230 37	220 39	220 40	220 43	230 44	230 61	220 63	220 61	220 38	220 15	220 11	220 02	040 06			
LARKHILL 03743	010630	P	280 02	+++ ++	350 05	350 04	330 05	310 07	310 12	310 16	330 35	340 45	340 52	340 23	320 12	350 07	080 08	130 17	090 20		
	011030	P	000 00	+++ ++	360 04	020 03	350 04	300 09	310 12	320 23	340 27	330 30	330 30	330 21	310 06	280 06	130 07	060 12			

## 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	056mb 100 09 27600m 100 30 215mb 270 33 25500m 090 20 23100m 090 09 18800/5	
STORNOWAY 03026	060mb 100 07 28800m 090 28 32100m 090 31 10800/1 16190/5 104mb 170 07 28800m 100 24 32600m 090 33 01260/0 03050/2 17780/9	280 68 09650m
SHANWELL 03170	040mb 090 16 11500m 290 33 23600m 090 20 08170/3 10900/1 P27300m 090 25 25800m 090 15	310 61 10170m
ALDERGROVE 03917	224mb 290 37 080mb 220 03 02180/2 05260/3 11800/7 17200/8 22700/0 28800m 080 28	
AUGHTON 03322	338mb 290 29 07310/0 11630/1 12170/1 26100m 070 24 19500m 080 09	
HEMSBY 03496	061mb 070 06 22500m 080 19 28500m 070 29 06110/2 08270/5 09600/2 358mb 320 21 215mb 340 30 P24900m 080 24 21100m 080 18	
CRAWLEY 03774	P25500m 090 25 10650/0 11180/1 11700/1 27900m 090 31 16750/2 17420/2 19610/5 19500m 080 10 13360/5 17290/2 18600/2	
CAMBORNE 03808	188mb 290 35 040mb 090 21 P23700m 090 21 24900m 090 22 21600m 100 19	
VALENTIA 03953	773mb 250 24 615mb 280 29 123mb 250 12 929mb 220 19 756mb 250 28 595mb 260 20 218mb 260 33 045mb 130 04	
Ocean Weather Station 'I' 59°00'N 19°00'W	333mb 210 44 06000m 200 75 08400m 210 75 08110/1 08780/1 09380/1 123mb 200 22 075mb 170 11 16500m 250 05 03390/0 04320/0 10650/1 11290/1	250 69 09710m 210 97 07650m 250 103 09420m 230 78 09790m
Ocean Weather Station 'J' 52°30'N 20°00'W	110mb 230 16 19800m 050 03 05300/0 12730/1 092mb 210 13 P18300m 150 05 19800m 000 00 06500m 220 49 11400m 220 47	230 78 07870m
LARKHILL 03743	15560/4 22860m 100 18	

## NOTES ON THE AEROLOGICAL SITUATION

The low south of Greenland remains slow-moving and the associated trough over the Davis Strait has moved south-east around it. Upwind there has been a slow advance of the ridge over Labrador as a more westerly regime is being established over the western part of North America. There has been a slow decline of the block over Europe.

AVERAGE AND EXTREME VALUES 1951-55  
JUNE

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22345	-48.1	-42	-55	...	...
60	19675	-48.1	-41	-55	120	3
100	16320	-48.8	-41	-56	244	5
150	13660	-48.3	-41	-59	263	10
200	11770	-49.8	-39	-67	271	16
300	9125	-46.7	-37	-56	271	22
400	7160	-32.6	-23	-44	271	18
500	5555	-20.8	-11	-31	269	14
700	2985	-5.2	3	-14	266	9
850	1435	2.8	14	-7	269	6

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	257	-54.7	10190
Max.	405	-40	12955
Min.	172	-68	6890

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22310	-49.6	-47	-57	106	9
60	19675	-51.4	-45	-59	136	3
100	16370	-52.6	-46	-61	251	8
150	13745	-51.8	-42	-65	265	15
200	11890	-54.0	-40	-65	268	20
300	9265	-44.7	-36	-54	265	20
400	7275	-29.6	-19	-41	265	17
500	5640	-17.8	-9	-28	263	15
700	3050	-2.1	7	-10	263	11
850	1480	5.7	16	-3	264	7

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	234	-56.8	10950
Max.	388	-41	13440
Min.	160	-66	7225

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5
60	19670	-60.7	-53	-69	135	4
100	16510	-62.9	-57	-71	255	21
150	13995	-59.0	-51	-67	265	38
200	12185	-56.6	-47	-67	275	42
300	9530	-40.1	-33	-46	285	32
400	7500	-23.9	-19	-29	285	27
500	5835	-11.8	-8	-17	285	24
700	3165	7.2	13	-1	290	18
850	1535	17.9	27	8	290	9

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb.	°C	mb.	mb.	°C	°C
Lower	123	-65.7	...	73	...	-73
	193	-59.8	266	...	-46	...

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.

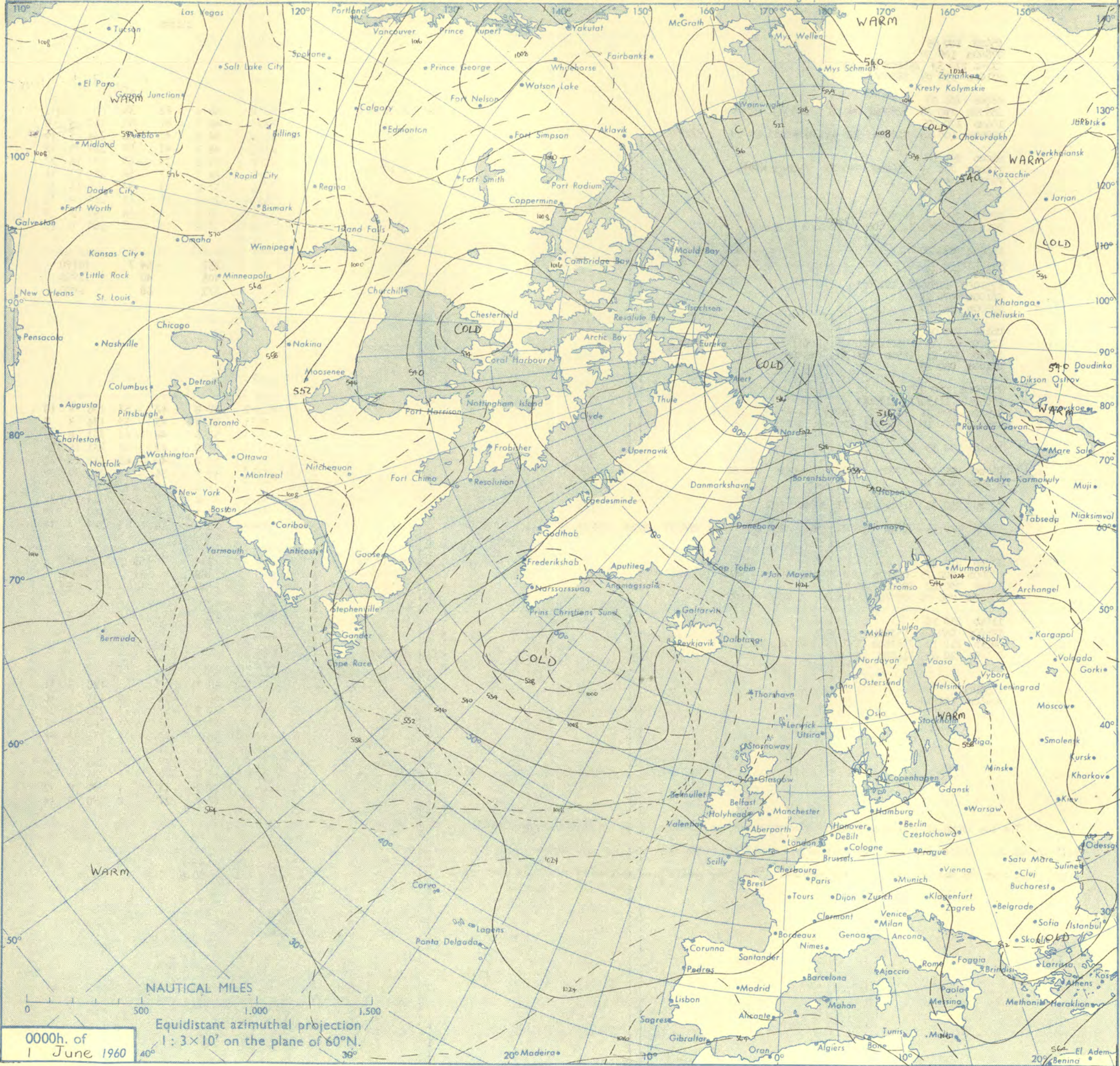
† Observations were made at Larkhill (Lat. 51° 12' N.,  
Long. 01° 48' W.) up to 28th April, 1953.

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.



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

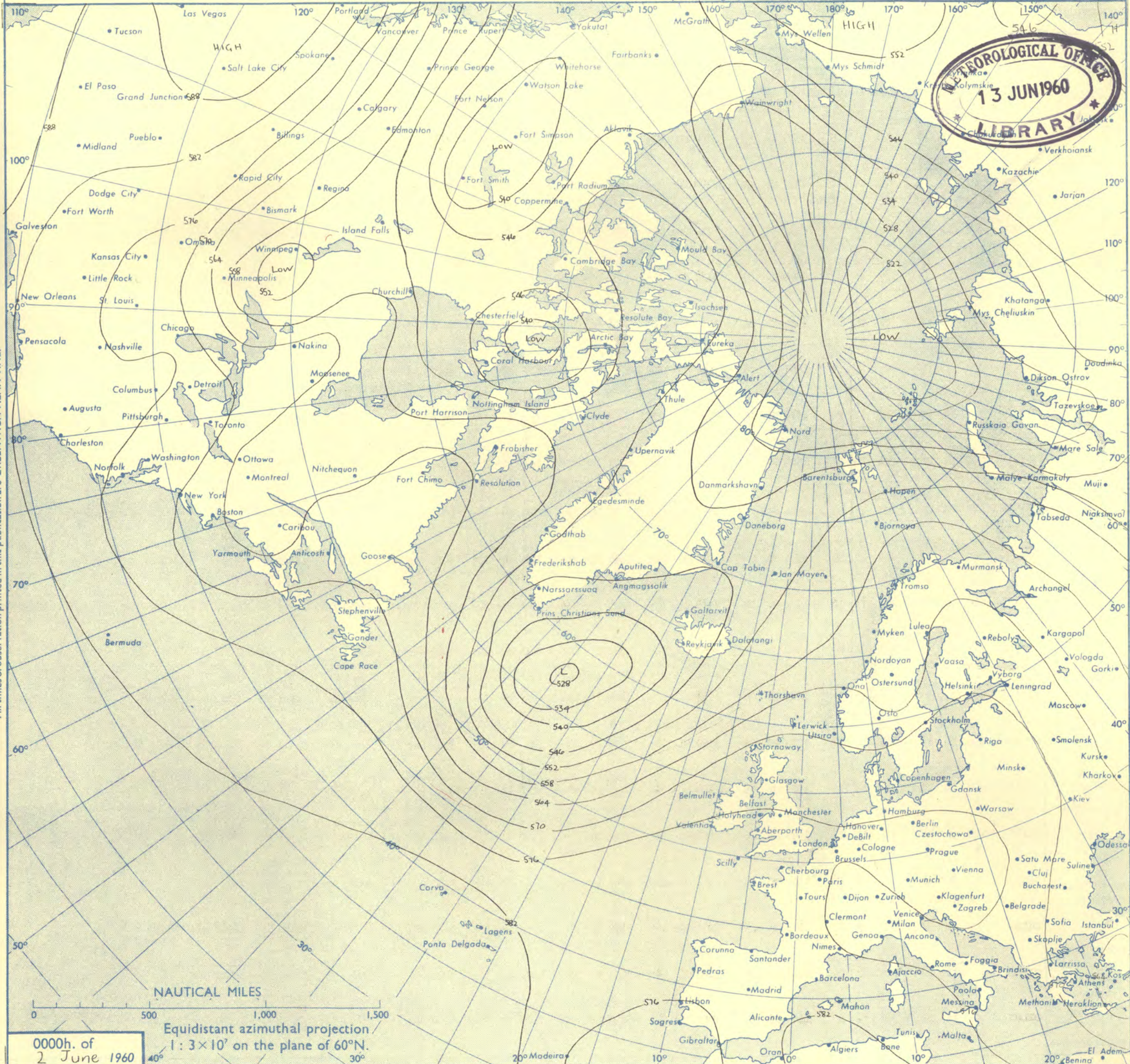
Thickness isopleths in geopotential decametres





CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



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

0000h. of  
2 June 1960



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	012245	082	09	09	183	09	08	1522	05	05-	3086	03-	12-	5676	19-	25-	7295	32-	37-	9270	46-	++	11873	55-	13726	52-	16341	54-	18644	51-	20845	49-	24120	48-
	021100	082	13	11	188	12	10	1547	08	06	3126	01-	06-	5734	18-	23-	7370	29-	33-	9361	45-	++	11988	56-	13833	54-	16447	53-	18758	52-	20963	49-	24335	48-
STORNOWAY 03026	012306	013	11	10	185	11	09	1527	04	03-	3100	00	20-	5705	18-	25-	7340	29-	37-	9335	44-	++	11963	55-	13817	53-	16434	52-	18752	50-				
	021100	013	13	12	177	12	10	1527	06	04	3100	02-	05-	5698	18-	24-	7332	29-	34-	9322	44-	++	11936	58-	13776	56-								
SHANWELL 03170	012300	005	13	09	202	11	08	1547	07	03	3119	02-	06-	5715	18-	27-	7345	30-	34-	9325	47-	++	11915	57-	13748	56-	16341	54-	18636	52-	20828	51-		
	021100	005	17	13	208	13	11	1559	07	04	3131	02-	04-	5736	17-	21-	7371	29-	38-	9353	46-	++	11940	56-	13772	56-	16365	55-	18657	51-	20862	49-	24219	47-
ALDERGROVE 03917	012300	077	14	13	198	14	13	1554	07	06	3130	01-	02-	5743	16-	18-	7383	29-	33-	9378	45-	++	11987	55-										
	021205	077	18	14	209	15	13	1568	08	05	3143	02-	04-	5749	17-	20-	7386	29-	31-	9382	43-	++	12001	60-	13806	57-	16381	56-	18668	54-	20834	52-	24144	52-
AUGHTON 03322	012300	056	12	09	225	12	08	1577	07	05-	3156	00	05-	5768	16-	22-	7413	27-	32-	9415	44-	++	12019	60-	13828	56-	16395	56-	18667	56-	20806	55-	24080	53-
	021100	056	19	08	224	16	08	1584	08	06	3164	00	02-	5771	18-	21-	7411	29-	33-	9399	46-	++	11989	60-	13802	57-	16386	56-	18678	53-				
HEMSBY 03496	012300	012	09	09	225	12	08	1581	07	01-	3157	00	10-	5775	16-	23-	7414	29-	36-	9411	44-	++	12008	60-	13836	55-	16425	55-	18708	54-	20876	52-		
	021100	012	13	10	229	13	08	1588	09	04-	3170	00	07-	5788	17-	24-	7425	28-	35-	9417	45-	++	12003	61-	13829	56-	16402	57-	18668	56-	21817	54-	24111	53-
CRAWLEY 03774	012310	144	10	08	223	13	10	1582	08	02	3171	01	10-	5800	15-	23-	7446	27-	32-	9451	43-	++	12062	61-	13879	56-	16459	57-	18729	56-	20896	53-	24204	52-
	021112	144	19	08	225	18	06	1584	09	08-	3167	00	08-	5780	18-	27-	7414	30-	39-	9393	47-	++	11972	60-	13791	57-	16367	56-	18640	56-	20795	53-	24102	51-
CAMBORNE 03808	012300	088	10	10	229	12	07	1585	09	05-	3168	01	03-	5795	16-	20-	7433	29-	34-	9427	45-	++	12010	62-	13812	57-	16382	57-	18637	56-	20786	54-	24096	52-
	021100	088	16	13	227	14	09	1585	10	05-	3169	01	05-	5790	17-	27-	7430	28-	39-	9425	45-	++	12022	63-	13803	59-	16368	58-	18615	58-	20759	55-	24032	53-
VALENTIA 03953	012332	014	14	13	210	13	12	1569	07	05	3149	00	04-	5760	16-	20-	7410	28-	34-	9410	44-	++	12010	61-	++++	++	16370	57-						
	021200	014	16	15	221	14	12	1590	08	06	3166	00	05-	5780	16-	19-	7440	26-	33-	9450	43-	++	12060	63-	++++	++	16440	55-						
Ocean Weather Station 'I' 59°00'N 19°00'W	020000		10	08	077	09	07	1402	00	02-	2953	03-	05-	5540	19-	22-	7160	30-	34-	9150	45-	++	11790	49-	13690	49-	16330	50-						
	021100		10	07	078	09	07	1398	00	05-	9260	09-	16-	5470	23-	34-	7070	34-	43-	9040	46-	++	11720	47-	13610	51-	16260	49-	18610	49-				
Ocean Weather Station 'J' 52°30'N 20°00'W	012300		13	12	106	12	11	1462	08	08	3040	02-	03-	5650	17-	18-	7290	28-	31-	9290	43-	++	11910	59-	13740	55-	16330	54-						
	021100		13	12	108	12	10	1449	06	04	3018	02-	06-	5620	18-	22-	7240	30-	34-	9240	33-	++	11860	58-	13690	54-	16300	53-	18620	51-				



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE			TROPOPAUSE	
		MSL Surf. 0°C level			mb	m °C
LERWICK 03005	02 560++	022 012 731	990 08 06 972 09 00 931 08 05 911 ++ 02 876 ++ 03 858 05 05- 808 ++ 05- 799 ++ 09- 793 03 09- 767 03 08- 697 03- 12- 681 04- 13- 668 05- 20- 651 06- 15- 642 07- 18- 621 07- 24- 597 ++ 25- 575 ++ 23- 491 20- 26- 448 ++ 31- 340 40- 45- 238 57- 224 58- 175 52- 100 54- 093 54- 043 48- 030 48-	224 11180 58-		
	03 55531	023 013 730	994 12 10 982 14 12 950 ++ 09 819 07 02 793 ++ 03- 750 ++ 01- 715 01- 05- 690 01- 06- 628 ++ 12- 602 08- 17- 548 ++ 17- 526 ++ 23- 478 ++ 26- 448 ++ 27- 327 40- 44- 299 45- 242 54- 190 56- 174 52- 100 53- 064 51- 061 48- 030 48-	242 10770 54-		
STORNOWAY 03026	02 6563+	022 021 701	012 12 10 913 ++ 05 872 ++ 03 853 04 02- 837 06 05- 824 ++ 10- 807 06 10- 665 02- 24- 586 ++ 14- 540 14- 17- 501 ++ 25- 417 26- 34- 322 40- 47- 250 52- 217 57- 177 52- 098 52- 060 49-	217 11430 57-		
	50 673++	021 020 730	978 10 09 948 10 09 788 ++ 02 672 03- 07- 598 10- 14- 586 ++ 14- 560 12- 19- 527 ++ 22- 488 ++ 24- 401 29- 34- 378 33- 38- 324 40- 46- 208 60- 185 53- 153 57- 113 51-	208 11650 60-		
SHANWELL 03170	02 765++	024 024 730	008 ++ 09 928 08 06 869 07 05 844 07 03 815 06 03 803 ++ 00 750 01 05- 674 ++ 07- 645 06- 15- 568 ++ 17- 551 13- 24- 518 16- 20- 495 18- 28- 470 ++ 26- 416 ++ 31- 335 40- 45- 281 52- 253 57- 230 59- 097 55- 033 50-	230 11070 59-		
	80 784++	025 024 729	019 14 11 950 10 08 898 ++ 06 851 07 04 682 03- 05- 660 ++ 11- 616 ++ 12- 582 10- 24- 545 13- 17- 513 16- 19- 478 ++ 25- 438 ++ 31- 407 28- 37- 337 40- 48- 236 59- 226 60- 184 55- 082 54- 062 49- 038 50- 030 47-	226 11190 60-		
ALDERGROVE 03917	61 464++	024 015 716	994 14 13 686 02- 03- 628 05- 06- 578 10- 11- 462 20- 23- 420 26- 30- 334 38- 41- 263 52- 224 59- 204 55- 186 55-	224 11270 59-		
	21 3547 +	025 016 730	997 15 13 924 10 09 899 10 07 795 ++ 00 758 01 01- 687 02- 04- 357 34- 36- 322 ++ 42- 253 52- 200 60- 182 61- 117 55- 105 57- 051 52- 030 52-	200 12001 60-		
AUGHTON 03322	02 00901	027 020 702	005 13 09 989 12 08 976 12 08 937 11 04 883 ++ 06 852 ++ 05- 820 06 07- 800 ++ 00 731 02 05- 711 ++ 05- 684 ++ 04- 622 ++ 11- 591 10- 12- 577 10- 15- 528 13- 25- 525 ++ 22- 492 ++ 22- 487 18- 25- 475 17- 26- 386 29- 34- 319 40- 46- 250 54- 205 61- 191 59- 180 61- 164 56- 124 58- 091 55- 062 57- 030 53-	205 11870 61-		
	02 45731	027 020 707	005 16 08 940 11 06 870 ++ 07 824 ++ 03 774 05 02 649 05- 06- 624 05- 08- 584 09- 13- 502 18- 21- 488 17- 23- 403 ++ 32- 331 40- 44- 271 51- 215 61- 164 57- 122 55- 096 56- 058 51-	215 11520 61-		
HEMSBY 03496	02 00901	027 026 705	998 12 08 980 ++ 07 912 12 03- 872 09 03 850 07 01- 795 ++ 07- 757 ++ 05- 716 ++ 10- 611 ++ 14- 583 07- 18- 468 ++ 26- 324 40- 47- 241 57- 216 60- 198 60- 188 56- 082 55- 033 51-	216 11550 60-		
	10 00900	028 026 700	010 12 08 996 13 07 963 ++ 02 930 12 02- 900 ++ 05- 794 ++ 06- 766 04 08- 725 ++ 09- 698 ++ 07- 670 03- 11- 648 03- 15- 627 04- 19- 582 08- 18- 467 ++ 27- 448 ++ 33- 422 ++ 31- 407 ++ 34- 329 40- 46- 244 58- 223 61- 202 61- 175 55- 104 57- 030 53-	223 11320 61-		
CRAWLEY 03774	02 00900	027 010 688	996 15 11 833 07 00 804 ++ 08- 798 08 06- 762 ++ 03- 699 ++ 10- 681 ++ 06- 660 ++ 08- 634 04- 13- 585 07- 26- 540 ++ 21- 519 13- 22- 421 ++ 28- 386 ++ 37- 317 ++ 46- 257 52- 194 61- 176 56- 100 57- 037 51- 030 52-	194 12220 61-		
	02 00902	027 009 698	994 17 07 940 ++ 04 887 09 08- 867 10 05- 857 09 06- 833 09 08- 801 06 06- 761 05 07- 748 ++ 09- 709 ++ 06- 684 01- 10- 658 ++ 18- 621 05- 23- 508 ++ 26- 465 ++ 32- 336 ++ 47- 228 61- 172 56- 077 56- 030 51-	228 11130 61-		
CAMBORNE 03808	02 00900	028 017 691	012 12 10 978 12 03 962 12 05 946 12 04 924 ++ 02 881 10 13- 857 09 05- 828 ++ 10- 777 ++ 01 680 ++ 04- 666 02- 06- 624 ++ 11- 600 06- 12- 464 ++ 24- 458 ++ 27- 327 40- 45- 230 61- 215 63- 169 58- 080 57- 036 51- 030 52-	215 11580 63-		
	02 11601	027 016 679	999 14 08 982 15 07 927 11 06 887 ++ 03 874 08 03- 851 10 05- 834 ++ 00 795 06 01 747 04 02- 718 01 05- 691 01 06- 655 ++ 11- 612 ++ 15- 580 ++ 16- 522 ++ 27- 476 20- 29- 453 ++ 30- 425 24- 35- 328 40- 47- 204 64- 188 62- 174 63- 129 57- 071 59- 056 54- 041 55- 030 53-	204 11900 64-		
VALENTIA 03953	20 863++	026 024 700	872 09 07 845 07 05 828 07 05 763 03 02 737 02 01- 550 12- 16- 515 16- 19- 492 16- 20- 381 30- 36- 228 59- 190 62- 175 60- 156 60- 144 57- 068 57-	190 12300 62-		
	01 763+2	026 025 687	009 14 12 967 14 12 871 09 06 797 06 01 716 00 04- 687 00 06- 625 07- 10- 442 21- 29- 259 51- 207 63- 145 56- 101 55- 065 56-	207 11600 63-		
Ocean Weather Station 'I' 59°00'N 19°00'W	60 2557+	009 009 850 752	990 ++ 05 813 03- 05- 806 00 02- 770 01 01- 593 11- 13- 564 12- 15- 330 40- 43- 280 48- 237 55- 226 55- 220 51- 202 49- 095 50-	237 10700 55-		
	01 38530	009 009 848	941 04 04 870 ++ 01- 846 00 06- 782 ++ 10- 717 09- 13- 681 09- 19- 615 12- 24- 353 40- 49- 286 47- 218 49- 190 45- 154 54- 064 49-	286 09940 47- 154 13400 54-		
Ocean Weather Station 'J' 52°30'N 20°00'W	02 8042+	013 013 723	947 11 11 924 12 12 704 ++ 02- 666 04- 07- 654 04- 09- 642 ++ 11- 553 ++ 13- 410 27- 30- 333 39- 43- 319 40- 44- 245 53- 189 60- 180 56- 086 53-	189 12300 60-		
	02 863++	013 013 732	974 09 08 934 08 06 901 08 04 895 ++ 03 846 06 05 755 01 00 722 ++ 06- 575 11- 15- 530 15- 18- 506 17- 21- 470 21- 26- 403 30- 34- 365 ++ 42- 321 40- 46- 248 53- 324 55- 178 57- 164 54- 103 53- 080 51- 060 52-	200 11860 58-		



STATION	YYGG	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 900m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	012245	T	250 09	+++ ++	250 25	240 29	230 24	240 29	260 25	260 30	250 25	260 33	280 33	270 27	260 15	250 09	040 04	080 12	080 21	P080 25	
	020500	P	000 00	+++ ++	210 15	220 18	220 19	240 23	240 27	230 25	250 27	250 27	250 31	260 27	260 14	250 05	110 06				
	021100	T	140 10	+++ ++	210 22	210 21	240 27	240 23	240 18	240 23	240 23	250 25	260 27	240 25	250 15	240 09	100 04	100 12	090 14	P100 27	
	021700	P	270 10	+++ ++	240 14	240 14	240 16	240 15	230 18	240 14	260 26	260 30	280 24	280 15	240 14	290 04	080 01	100 07	090 19	080 22	
STORNOWAY 03026	012306	T	000 00	220 13	220 17	220 19	220 24	210 24	220 22	230 22	230 24	250 31	240 28	250 24	240 24	230 12	190 05				
	020500	P	180 13	+++ ++	210 27	220 25	230 24	230 25	240 22	230 25	240 34	230 30	220 33	230 22	240 15	220 12	160 04	120 13	080 20	080 28	
	021100	T	190 18	210 25	210 32	210 29	220 27	220 24	210 20	220 28	220 29	240 37	250 22	260 22	220 16						
	021700	P	190 16	+++ ++	220 30	230 30	230 27	240 24	240 22	240 24	230 26	250 27	240 25	230 21	200 20	190 13	170 06	090 08			
SHANWELL 03170	012300	T	260 04	+++ ++	260 10	250 14	230 17	240 18	230 13	260 22	280 25	260 30	270 19	250 19	280 11	250 05	100 07	100 12			
	020500	P	230 04	+++ ++	240 15	230 18	230 20	250 24	240 26	250 26	270 23	270 22	280 18	260 18	250 08	200 06	120 06	080 12	100 22		
	021100	T	230 10	240 18	240 21	230 22	230 16	230 15	240 18	250 16	250 15	270 21	270 21	260 16	240 11	250 07	110 12	120 09	090 24		
	021700	P	230 10	+++ ++	260 13	270 14	260 14	230 14	230 25	230 26	220 24	230 23	260 22	300 22	230 11	220 06	130 07	100 09	110 20	080 19	
ALDERGROVE 03917	012300		1 0 09	+++ ++	230 22	230 22	220 23	220 23	240 28	240 29	250 30	260 36	270 38	270 14							
	020500	P	180 09	+++ ++	240 18	240 16	230 16	240 26	240 27	240 22	240 18	260 21	270 29	260 22	230 14	240 10	150 05	100 14			
	021100	P	210 09	+++ ++	230 14	260 16	260 20	250 21	230 26	220 27	220 28	230 33	260 32	280 18	200 13	190 11	140 06	100 10	090 18	090 25	
	021700	P	230 06	+++ ++	240 13	260 18	270 16	270 18	250 16	250 20	280 22	280 29	270 34	250 18	220 13	210 12	120 05	110 09	090 20		
AUGHTON 03322	012300	T	040 05	+++ ++	220 13	210 10	220 06	210 08	250 10	290 17	300 16	290 21	290 29	270 14	290 08	250 03	P090 05	080 12	090 19	080 27	
	020500	P	120 03	+++ ++	210 10	230 11	240 12	250 13	270 12	270 16	260 18	290 20	300 21	300 21	280 07	250 05	070 05				
	021100	T	000 00	+++ ++	240 04	250 10	260 11	280 09	230 12	250 16	260 15	290 23	290 21	290 15	230 06	200 05	110 07				
	021700	P	330 06	+++ ++	260 08	270 09	270 08	220 08	260 13	250 15	250 15	260 16	290 21	300 18	310 08	270 03	130 05	110 10			
HEMSBY 03496	012300	T	000 00	+++ ++	020 09	360 15	360 05	310 01	350 07	350 15	350 15	350 17	350 15	330 12	350 09	310 04	090 08	090 12			
	020500	P	000 00	+++ ++	360 07	030 07	010 05	350 03	350 03	330 10	330 10	330 17	300 15	330 10	320 08	010 04	070 09				
	021100	T	080 08	+++ ++	080 05	040 06	050 05	020 03	280 03	290 09	350 12	330 12	330 17	320 13	030 05	340 03	090 09	080 15	100 17		
	021700	P	100 10	+++ ++	030 08	030 06	030 05	030 04	330 05	310 06	320 12	340 17	350 26	340 13	330 06	030 02	050 09	090 10	070 21		
CRAWLEY 03774	012300	T	000 00	+++ ++	P070 05	P050 11	P050 07	P340 07	P350 11	350 11	330 20	330 13	330 14	320 13	320 05	330 07	070 05	100 13	070 19		
	020500	P	000 00	060 12	050 13	020 09	350 07	340 02	320 01	360 17	360 17	360 19	330 13	330 09	330 07	020 04	050 09				
	021040	P	090 03	+++ ++	060 06	050 09	050 11	050 07	050 05	140 06	360 13	350 16	340 24	350 11	290 02	030 01	130 07	090 17	100 18	070 24	
	021700	P	080 03	+++ ++	030 10	030 16	040 10	080 05	070 05	060 03	320 09	330 14	360 22	350 15	280 05	060 01	050 05				
CAMBORNE 03808	012300	T	040 04	+++ ++	000 00	000 00	030 01	220 01	300 08	300 11	280 13	290 15	320 18	310 17	260 07	260 07	140 06	110 11			
	020500	P	040 02	+++ ++	130 03	110 03	020 03	310 07	300 09	260 09	280 09	310 11	320 17	330 19	260 05	220 03	080 09	100 10			
	021100	T	350 09	+++ ++	140 04	090 07	080 06	020 04	260 09	270 13	260 12	320 17	330 19	320 18	220 04	170 03	150 04	090 12	010 05		
	021700	P	020 11	+++ ++	080 08	080 07	100 07	100 08	240 05	280 09	280 13	320 13	330 18	330 15	240 05	250 07	130 05	070 08	090 22		
VALENTIA 03953	012332	T	220 05	230 12	+++ ++	240 22	+++ ++	240 23	+++ ++	230 22	240 27	250 25	+++ ++	260 30	+++ ++	210 09					
	021200	T	200 13	190 14	+++ ++	210 13	+++ ++	240 07	+++ ++	240 22	250 26	260 31	+++ ++	250 30	+++ ++	190 15					
Ocean Weather Station 'I' 59°00'N 19°00'W	012300	P	180 20	+++ ++	170 25	170 33	180 40	210 49	190 48	200 50	200 62	220 76	210 47	220 23	220 23						
	020500	P	315 10	+++ ++	240 10	210 19	210 33	200 40	210 56	200 64	200 70	210 85	210 81	210 82	200 44	200 22	210 09				
	021100	T	270 16	+++ ++	250 17	250 16	230 14	230 20	220 48	200 66	200 84	070 10	020 90	200 50	190 24	170 16	160 12				
	021700	P	225 20	+++ ++	220 18	220 18	210 20	210 23	210 35	210 42	210 85	210 97	210 124	200 59	200 17	190 09	190 07				
Ocean Weather Station 'J' 52°30'N 20°00'W	012300	T	210 28	+++ ++	230 47	230 45	230 44	230 47	230 36	220 44	200 52	230 48	240 51	250 51	220 28	230 15					
	020500	P	180 30	+++ ++	220 47	230 58	230 49	220 52	220 54	220 63	220 58	230 65	230 71	220 57	220 35	220 24	190 09	110 11			
	021100	T	310 20	+++ ++	230 20	210 25	220 39	220 38	210 50	210 54	210 65	210 76	210 68	210 59	210 32	180 27	000 00				
	021700	P	270 10	+++ ++	260 10	220 18	220 32	220 37	220 48	220 55	200 64	200 75	210 72	210 61	200 36	210 70	210 12	360 02	090 06		
LARKHILL 03743	020630	P	030 01	+++ ++	090 06	080 06	360 06	340 05	340 09	350 11	330 10	320 12	330 20	330 18	340 05	000 00	030 10	080 13			
	021020	P	000 00	050 05	060 06	020 06	010 06	330 09	320 10	280 10	290 13	310 20	310 17								

## 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
021200	52.0N 24.5W	013 006 855	061 08 03	107	05 00	969 03- 05-	1426 01- 05-	1911 01- 19-	03- 29-	2963 07- 39-	08- 40-	4154 12- 35-	15- 38-	5535 19- 45-
Cloud :— 1/8 Cu 1200 to 3000 ft. 5/8 Sc 2000 to 3000 ft. 2/8 Cs 25000 ft. to TNR														
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
021315	49.3N 19.8W	016 009 717	061 13 12	131	11 04-	1001 09 09	1478 07 20-	1975 07 14-	03 11-	3054 02- 07-	03- 07-	4067 10- 11-	14- 15-	5654 16- 16-
Cloud :— 2/8 St 700 to 800 ft. 5/8 Sc 2000 to 3000 ft. 6/8 Sc 3500 to 5000 ft. 7/8 As 11000 to 14000 ft. 8/8 As 17000 to 19000 ft. 8/8 Cs 20000 ft. to TNR														
Inversion Levels :— Isothermal Levels :— 1009 to 1000mb 134°C. 850 to 800mb 62°C.														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.										Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2				



STATION		MAX. WIND
LERWICK 03005	20400m 050 05 02310/2 P28800m 080 33 30000m 090 31	
STORNOWAY 03026	27100m 080 31 18550/6 128mb 210 16 22400m 090 18	
SHANWELL 03170	036mb 080 21 15890/9 11880/1 13000/5 16630/5	
ALDERGROVE 03917	217mb 270 27 21700m 100 14 12630/7 28600m 090 37 25800m 080 24 16850 15 21950 10	
AUGHTON 03322	P28800m 090 27 19500m 090 08 060mb 100 10	
HEMSBY 03496	035mb 090 17 20400m 060 09 P25700m 070 25 11220/1	
CRAWLEY 03774	06830/0 16300/2 28800m 100 28 04920/2 06730/9 12120/1 15780/9 16620/2 05860/5 13720/5 18110/9	
CAMBORNE 03808	031mb 090 16 22500m 070 15 04740/5 344mb 290 10 07950m 300 10 24900m 090 19	
VALENTIA 03953	763mb 240 21 228mb 280 36 156mb 230 13 068mb 190 11 797mb 200 11 065mb 170 08	
Ocean Weather Station 'I' 59°00'N 19°00'W	07800m 230 88 11100m 210 35 15000m 220 20 08060/0 11150/1 13200m 200 66 14700m 200 31 19200m 210 07 00500/6 03500/0 13450/1 660mb 220 31 222mb 020 69 075mb 160 14 06300m 210 62 06240/0 09620/0 11080/1 11400/1 12410/1	230 98 08180m 210 99 08800m 200 117 09360m 210 128 09960m
Ocean Weather Station 'J' 52°30'N 20°00'W	184mb 240 40 22800m 120 12 13750/1 18500/5 083mb 210 06 13200m 200 45 01890/6 13160/1	230 74 10540m 210 78 09150m 210 81 09540m
LARKHILL 03743	23470m 090 21 13110m 290 05	

## NOTES ON THE AEROLOGICAL SITUATION

The westerly flow over the western and central parts of North America continued to extend east while the weak trough and ridge over the eastern seaboard of North America moved slowly east. The low south of Greenland filled slightly but showed little change of central position and the trough on its southwest flank continued to move southeast. The block over Europe continued to decline slowly.

## AVERAGE AND EXTREME VALUES 1951-55

## JUNE

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22345	-48.1	-42	-55	...	(11)
60	19675	-48.1	-41	-55	120	3
100	16320	-48.8	-41	-56	244	5
150	13660	-48.3	-41	-59	263	10
200	11770	-49.8	-39	-67	271	16
300	9125	-46.7	-37	-56	271	22
400	7160	-32.6	-23	-44	271	18
500	5555	-20.8	-11	-31	269	14
700	2985	-5.2	3	-14	266	9
850	1435	2.8	14	-7	269	6

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	257	-54.7	10190
Max.	405	-40	12955
Min.	172	-68	6890

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22310	-49.6	-47	-57	106	9
60	19675	-51.4	-45	-59	136	3
100	16370	-52.6	-46	-61	251	8
150	13745	-51.8	-42	-65	265	15
200	11890	-54.0	-40	-65	268	20
300	9265	-44.7	-36	-54	265	20
400	7275	-29.6	-19	-41	265	17
500	5640	-17.8	-9	-28	263	15
700	3050	-2.1	7	-10	263	11
850	1480	5.7	16	-3	264	7

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	234	-56.8	10950
Max.	388	-41	13440
Min.	160	-66	7225

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5
60	19670	-60.7	-53	-69	135	4
100	16510	-62.9	-57	-71	255	21
150	13995	-59.0	-51	-67	265	38
200	12185	-56.6	-47	-67	275	42
300	9530	-40.1	-33	-46	285	32
400	7500	-23.9	-19	-29	285	27
500	5835	-11.8	-8	-17	285	24
700	3165	7.2	13	-1	290	18
850	1535	17.9	27	8	290	9

Tropo- pause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb.	°C	mb.	mb.	°C	°C
Lower	123	-65.7	...	73	...	-73
	193	-59.8	266	...	-46	...

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.

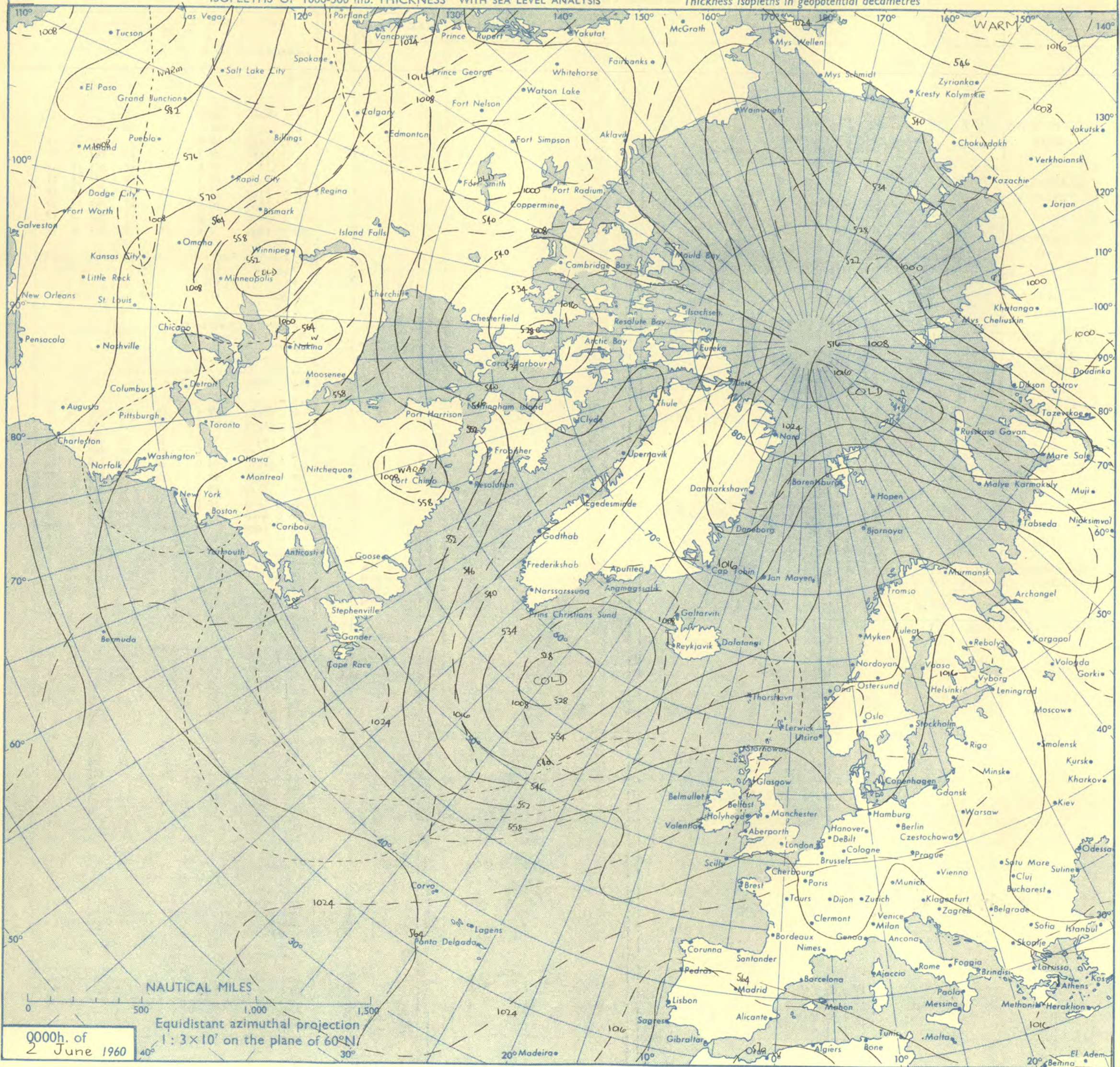
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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

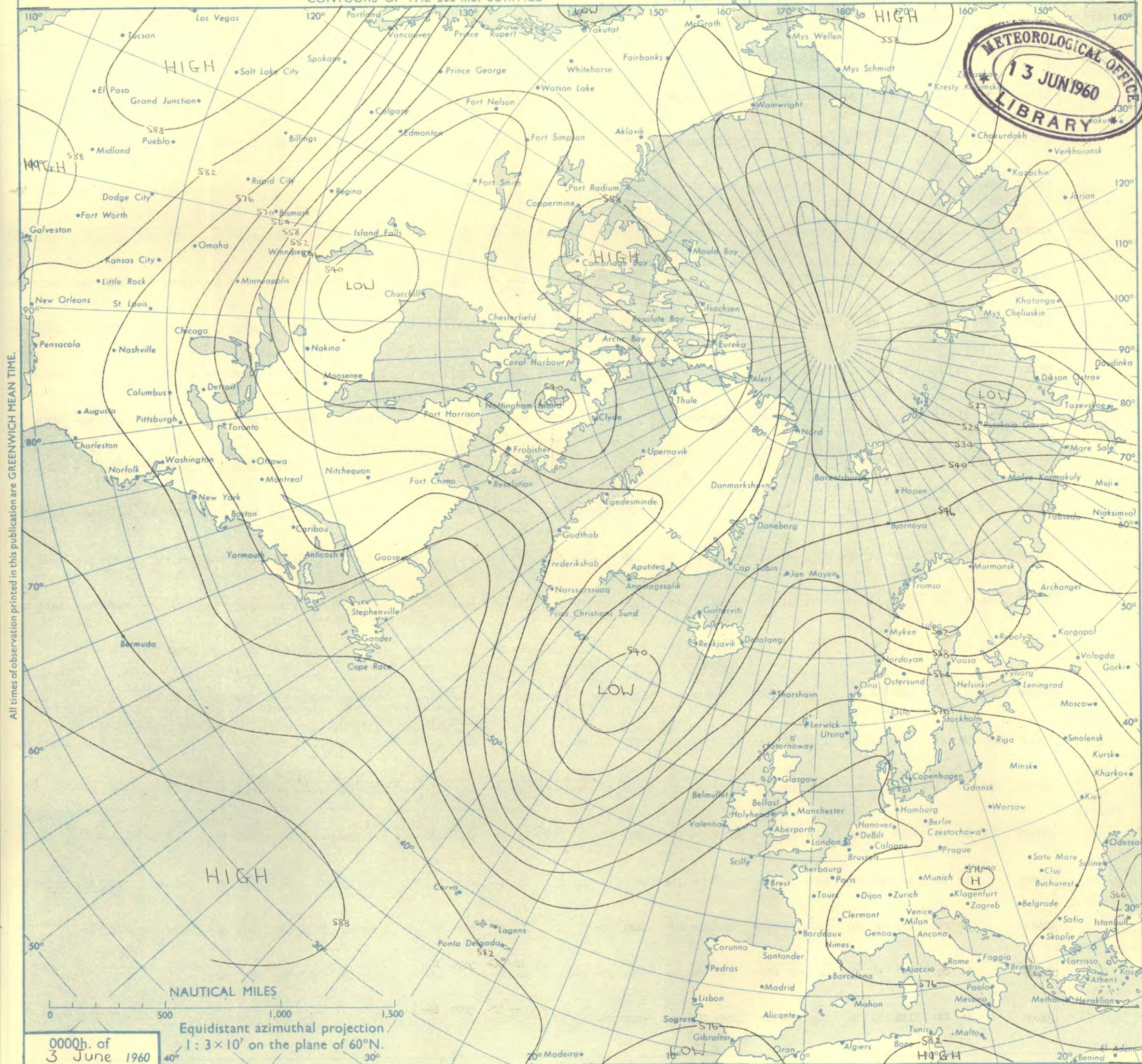
Thickness isopleths in geopotential decametres





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 10<sup>7</sup> on the plane of 60°N.0000h. of  
3 June 1960



## HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

3 June

1960

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						
LERWICK 03005	022245	082	12	11	193	12	10	1545	07	06	3119	01	02	5723	17	20	7367	27	31	9373	42	++	12012	59	13827	55	16246	53	18724	52	20917	49		
	031100	082	15	12	199	13	11	1555	09	00	3128	03	05	5716	19	22	7344	29	33	9339	44	++	11952	60	13751	57	16344	53	18649	51	20843	50	24187	50
STORNOWAY 03026	022300	013	12	10	191	11	09	1542	08	06	3115	02	06	5713	18	21	7347	29	32	9342	44	++	11947	60	13756	56	16356	53	18663	52				
	031103	013	15	12	180	15	10	1539	07	04	3104	04	07	5690	18	22	7324	28	33	9320	45	++	11907	64	13683	58	16271	54	18570	53	20747	51	24091	49
SHANWELL 03170	022300	005	12	11	213	16	13	1571	08	09	3144	03	05	5741	18	24	7376	29	38	9369	45	++	11965	62	13767	58	16353	54	18644	52	20824	51	24159	50
	031100	005	21	13	205	17	11	1567	09	11	3147	01	06	5753	17	20	7395	28	32	9390	45	++	11974	65	13768	56	16357	53	18668	51	20867	51	24237	48
ALDERGROVE 03917	022300	077	14	13	209	17	13	1575	08	05	3151	02	04	5754	16	24	7401	27	32	9411	42	++	12032	62	13815	57	16391	56	18671	54	20836	52	24160	50
	031100	077	21	15	184	18	14	1548	09	01	3128	02	06	5739	17	24	7385	26	30	9396	42	++	12020	62	13802	56	16414	53	18715	52	20895	52	24212	51
AUGHTON 03322	022300	056	14	13	215	15	12	1579	09	05	3154	02	04	5756	18	22	7386	29	41	9367	47	++	11929	65	13690	62	16220	59	18459	57	20592	55	23864	54
	031100	056	23	12	194	19	10	1564	09	03	3150	00	07	5769	17	23	7407	28	33	9403	45	++	11995	65	13777	59	16351	56	18626	54	20804	51	24174	46
HEMSBY 03496	022300	012	09	09	219	12	08	1581	10	08	3160	00	10	5777	17	27	7414	29	38	9404	45	++	12005	59	13830	56	16408	56	18691	55	20852	53	24174	51
	031100	012	13	12	210	12	09	1571	09	01	3155	00	05	5774	17	20	7416	28	33	9419	43	++	12047	60	13862	56	16440	55	18717	55	20863	54	24149	54
CRAWLEY 03774	022300	144	11	09	212	13	11	1579	11	05	3168	02	09	5799	15	26	7446	27	35	9451	43	++	12060	59	13879	56	16473	55	18755	53	20936	51	24277	49
	031100	144	21	13	194	20	12	1561	09	07	3148	00	21	5762	17	29	7398	28	38	9390	45	++	11982	62	13777	60	16339	57	18592	57				
CAMBORNE 03808	022300	088	12	10	200	16	08	1569	10	08	3162	02	06	5793	15	31	7438	27	34	9448	43	++	12058	63	13833	59	16399	57	18664	56				
	031100	088	19	11	175	17	10	1549	12	11	3147	03	09	5775	17	28	7417	29	38	9416	44	++	12021	64	13798	58	16369	57	18625	56	20778	54	24058	54
VALENTIA 03953	030001	014	14	13	200	14	13	1560	09	05	3141	01	09	5750	16	24	7400	26	28	9410	43	++	12020	63	++++	++	16350	57						
	031200	014	20	13	163	17	09	1525	09	09	3107	00	17	5720	18	31	7360	27	39	9370	43	++	11980	63	++++	++	16310	55						
Ocean Weather Station 'I' 59°00'N 19°00'W	022300		10	06	103	09	07	1425	01	02	2950	09	14	5480	23	31	7090	33	40	9050	46	++	11710	47	13620	47	16280	49	18630	48	20850	48	24220	48
	031100		10	07	083	09	06	1404	01	07	2922	11	19	5420	27	37	7010	36	47	8940	50	++	11640	44	15350	46	16240	48	18590	48	20810	48		
Ocean Weather Station 'J' 52°30'N 20°00'W	022300		11	09	127	10	07	1454	01	05	3005	04	21	5580	20	35	7200	32	36	9170	47	++	11800	52	13670	51	16320	51						
	031100		11	07	136	09	04	1455	02	07	2993	06	22	5540	24	41	7130	36	40	9070	48	++	11720	50	13600	50	16230	52						



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE		TROPOPAUSE
		MSL Surf. 0°C level		
LERWICK 03005	51 553++	023 013 727	991 ++ 10 940 11 09 732 00 01- 694 01- 02- 603 09- 10- 524 14- 16- 415 25- 29- 319 40- 44- 225 56- 183 60- 170 59- 162 54- 136 56- 100 53- 034 48-	183 12560 60-
	02 11541	024 014 745	992 13 10 948 ++ 05 927 10 00 914 12 01- 903 10 05- 880 11 00 745 00 02- 724 02- 04- 713 03- 04- 580 ++ 16- 327 40- 45- 226 57- 190 62- 100 53- 030 50-	190 12260 62-
STORNOWAY 03026	01 2557+	023 021 733	971 10 08 954 11 09 916 09 06 892 10 06- 780 ++ 07- 709 02- 06- 655 05- 08- 605 ++ 13- 492 ++ 22- 325 40- 44- 216 60- 187 61- 164 56- 118 53- 067 52-	216 11460 60-
	21 18678	022 020 749	999 15 10 883 ++ 07 802 04 00 662 07- 09- 520 ++ 19- 458 22- 28- 368 32- 36- 323 40- 46- 224 61- 195 64- 162 62- 143 55- 056 52- 030 49-	195 12050 64-
SHANWELL 03170	01 26600	025 025 732	015 16 13 973 15 11 880 09 04 855 08 08- 810 06 17- 782 04 18- 752 ++ 09- 739 ++ 10- 725 ++ 10- 713 ++ 05- 695 03- 05- 610 08- 11- 578 11- 16- 557 ++ 16- 543 ++ 20- 508 17- 23- 469 20- 31- 413 27- 39- 374 33- 39- 327 40- 48- 258 53- 195 63- 162 58- 100 54- 030 50-	195 12100 63-
	03 11506	024 023 715	006 17 11 975 ++ 12 937 ++ 05 897 10 04 870 10 07- 853 ++ 12- 833 ++ 08- 814 07 14- 770 ++ 04- 683 ++ 06- 633 07- 12- 500 17- 20- 488 17- 20- 388 29- 34- 328 40- 45- 316 42- 203 65- 150 56- 100 53- 049 51- 037 46- 030 48-	203 11880 65-
ALDERGROVE 03917	02 12542	025 016 722	010 18 15 955 16 12 858 08 05 778 05 03 698 02- 04- 538 14- 21- 494 ++ 24- 473 18- 25- 391 ++ 32- 312 ++ 44- 200 62- 183 65- 148 56- 100 56- 030 50-	183 12590 65-
	01 11432	021 012 719	997 17 13 945 ++ 11 934 12 08 904 12 01- 818 08 03 696 02- 06- 686 ++ 05- 669 02- 08- 538 14- 21- 500 ++ 24- 455 ++ 24- 416 24- 28- 323 39- 43- 180 66- 146 54- 086 54- 078 52- 030 51-	180 12690 66-
AUGHTON 03322	02 20935	026 019 726	990 16 11 927 13 08 870 ++ 05 820 ++ 04 804 ++ 01 670 04- 06- 653 04- 08- 580 10- 17- 562 12- 16- 473 22- 26- 460 22- 30- 399 29- 40- 337 40- 47- 245 58- 217 64- 188 67- 159 62- 123 59- 093 60- 043 54- 030 54-	188 12310 67-
	05 00902	023 016 694	005 20 11 971 18 10 955 17 08 909 14 08 860 10 05 840 ++ 01 804 06 00 796 ++ 03- 741 ++ 07- 675 ++ 06- 669 01- 08- 640 ++ 09- 610 06- 16- 578 14- 20- 510 16- 23- 441 23- 27- 375 32- 36- 325 40- 46- 201 65- 193 65- 163 59- 121 55- 105 57- 030 46-	201 11960 65-
HEMSBY 03496	45 9+0++	027 025 700	015 09 07 994 13 08 980 13 06 956 14 01 899 12 06- 878 12 08- 814 07 07- 684 01- 10- 670 01- 15- 647 ++ 20- 602 ++ 19- 470 ++ 29- 330 40- 48- 234 58- 217 60- 180 56- 097 55- 030 51-	217 11510 60-
	01 773++	025 024 700	008 10 08 991 15 08 984 ++ 06 962 ++ 08 877 10 05 861 ++ 07- 853 09 01- 818 ++ 01- 814 ++ 03- 758 05 02- 721 01 04- 675 ++ 06- 659 ++ 11- 635 ++ 10- 588 07- 13- 547 ++ 18- 493 18- 20- 489 ++ 20- 478 ++ 25- 473 19- 25- 318 40- 44- 223 57- 197 60- 189 57- 176 59- 108 55- 071 55- 030 54-	197 12130 60-
CRAWLEY 03774	02 00902	026 008 659	987 15 11 971 ++ 05 890 13 11- 860 ++ 06- 717 03 08- 651 00 16- 640 ++ 17- 583 06- 17- 422 24- 34- 319 ++ 46- 261 52- 215 60- 130 54- 097 55- 030 49-	215 11600 60-
	02 00906	023 006 695	988 17 07 932 ++ 08 916 ++ 04 880 ++ 03 862 08 02- 841 10 10- 795 08 29- 686 ++ 20- 658 ++ 24- 464 21- 34- 328 ++ 48- 254 54- 202 62- 129 56- 083 58- 054 55-	202 11920 62-
CAMBORNE 03808	02 00901	024 014 661	996 18 09 990 ++ 04 900 12 06 897 ++ 06 877 ++ 04- 848 ++ 08- 800 08 00 678 01 07- 649 02- 14- 611 05- 14- 497 ++ 32- 482 17- 28- 472 ++ 31- 370 31- 37- 315 40- 46- 233 57- 192 65- 139 57- 065 56-	192 12290 65-
	05 00901	021 010 665	990 15 09 972 16 11 960 16 09 944 16 10 894 ++ 09 886 11 06 873 12 02 851 ++ 11- 840 11 13- 788 ++ 07- 641 02- 14- 506 16- 28- 447 22- 33- 398 29- 38- 322 40- 46- 202 64- 191 65- 171 63- 163 59- 111 56- 084 58- 057 54- 030 54-	191 12280 65-
VALENTIA 03953	02 36441	024 022 718	014 15 14 928 11 09 881 11 08 733 01 03- 678 03- 15- 653 04- 17- 527 14- 34- 471 18- 21- 389 28- 30- 262 51- 189 65- 143 58- 108 58- 076 54-	189 12400 65-
	05 12502	019 018 700	923 11 02 809 08 16- 671 02- 17- 541 13- 30- 492 17- 31- 424 24- 40- 303 43- 204 62- 184 65- 106 55- 184 12700 65-	184 12700 65-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 38400	013 013 861	955 ++ 05 911 ++ 01 840 02- 03- 771 05- 06- 746 ++ 12- 711 08- 13- 576 19- 26- 555 18- 25- 455 26- 31- 346 40- 46- 266 51- 255 50- 240 51- 214 47- 146 47- 111 50- 096 48-	266 09900 51-
	01 22500	010 010 868	950 ++ 04 862 00 01- 820 ++ 12- 747 ++ 14- 697 ++ 19- 657 ++ 17- 645 ++ 24- 553 23- 32- 411 34- 46- 371 39- 50- 304 50- 243 45- 195 44- 137 48- 042 48-	304 08700 50-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 547++	015 015 772	005 ++ 07 980 ++ 07 920 ++ 01 877 ++ 00 858 01 02- 838 ++ 13- 822 03 15- 756 01- 19- 576 12- 29- 529 ++ 35- 492 ++ 35- 441 ++ 32- 347 40- 43- 313 46- 235 53- 208 51- 190 52- 093 50-	235 10800 53-
	01 18500	016 016 875 828	954 05 01 922 ++ 02- 856 00 04- 851 02- 06- 833 00 12- 805 01- 16- 785 02- 14- 750 ++ 19- 656 09- 25- 501 24- 41- 453 28- 44- 374 40- 50 349 44- 288 49- 275 52- 262 50- 255 51- 247 50- 208 51- 188 49- 108 53- 084 51- 078 52-	275 09700 52-



## UPPER WINDS AT STANDARD LEVELS

3 June

1960

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 900m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	022245	T	260 20	+++ ++	210 17	210 19	220 23	250 21	240 17	230 23	230 22	240 24	270 16	230 15	230 15	230 05	110 03	070 07			
	030500	P	210 14	+++ ++	240 23	240 23	250 23	260 28	250 20	240 23	250 21	250 25	250 26	230 24	220 18	190 07	160 05	100 08			
	031100	T	170 18	+++ ++	240 12	250 13	240 10	240 09	240 14	230 23	240 22	240 29	250 37	240 30	220 24	190 08	160 05	100 13	080 18	P100 29	
	031658	P	180 13	+++ ++	180 16	190 16	200 14	210 17	210 21	200 24	230 29	240 31	240 32	240 32	220 18	210 11	130 06	130 11	100 18	080 25	
STORNOWAY 03026	022300	T	180 12	+++ ++	230 28	240 33	240 29	250 29	230 31	210 34	230 33	230 34	240 34	220 29	210 20	180 09					
	030500	P	200 17	+++ ++	220 25	220 26	210 24	220 26	210 26	210 27	220 32	230 29	230 50	220 36	200 20	190 12					
	031103	T	180 08	+++ ++	190 26	190 32	190 37	190 36	190 32	200 27	210 39	210 48	220 51	210 38	200 30	180 16	150 08	110 11	090 21		
	031700	P	230 18	+++ ++	190 28	190 32	190 31	200 34	200 33	210 40	210 44	210 51	210 58	210 46	210 26	200 13					
SHANWELL 03170	022300	T	000 00	260 09	270 10	270 06	300 07	290 12	280 15	250 13	300 23	290 24	290 24	260 13	210 12	200 09	110 12	100 15	080 21	P090 27	
	030500	P	000 00	+++ ++	190 06	270 02	280 01	220 03	200 06	230 07	240 21	290 16	280 20	270 17	200 13	190 06	140 03	090 14	090 17		
	031100	T	130 13	+++ ++	160 10	170 11	160 11	170 11	220 08	220 17	230 15	230 13	250 20	230 11	200 09	170 11	030 11	090 17	090 25		
	031700	P	100 10	+++ ++	180 11	210 13	220 15	240 12	220 14	230 18	220 18	220 15	230 11	230 12	200 17	200 13					
ALDERGROVE 03917	022300	T	110 02	+++ ++	190 04	200 05	210 06	220 10	220 13	230 19	230 22	250 28	250 27	260 20	220 16	190 11	P140 05	080 10	090 19		
	030500	P	100 04	+++ ++	140 21	160 18	170 18	190 15	200 19	220 25	230 22	220 20	230 25	240 20	190 14	220 10	120 10	120 17	080 20		
	031100	T	160 10	+++ ++	190 20	190 21	190 24	200 25	200 28	210 26	210 25	220 28	210 28	220 27	200 19	160 15	140 12	090 07	110 22		
	031700	P	130 07	+++ ++	170 10	190 18	190 18	200 20	210 28	220 28	220 31	200 35	200 28	200 27	190 19	200 16	150 07	110 18	090 15	100 24	
AUGHTON 03322	022300	T	000 00	+++ ++	050 05	150 05	280 06	260 10	260 13	250 14	300 11	320 20	320 26	310 14	230 06	190 07	120 12	070 16	100 14	P080 28	
	030500	P	000 00	+++ ++	170 08	190 06	150 06	190 08	250 10	270 12	270 08	310 14	340 16	320 10	190 09	180 08	130 05	110 14	090 26		
	031100	T	140 08	+++ ++	160 07	160 09	170 13	160 11	200 12	230 07	260 05	+++ ++	+++ ++	+++ ++	+++ ++	150 11	140 13	090 11	100 17		
	031700	P	150 05	+++ ++	130 13	130 11	150 08	170 09	200 09	230 07	240 08	270 05	070 04	080 03	210 09	200 08	120 08	140 15	090 14		
HEMSBY 03496	022300	T	090 08	090 12	090 10	060 11	050 09	050 09	340 05	270 07	310 10	350 17	350 22	360 19	020 05	090 02	080 06	070 13	110 19		
	030500	P	030 06	+++ ++	100 08	100 12	090 16	100 14	050 07	350 09	360 09	360 17	360 26	360 18	200 01	330 02	070 08	100 13			
	031100	T	050 10	+++ ++	110 13	100 14	090 13	090 10	040 06	020 06	010 03	010 13	010 24	030 20	100 03	120 05	120 06	100 08	100 14		
	031700	P	070 12	+++ ++	080 09	080 13	070 13	070 09	050 06	030 10	050 03	020 14	020 29	030 12	170 06	300 03					
CRAWLEY 03774	022300	T	080 03	+++ ++	P070 12	P070 15	P090 10	080 02	020 01	040 04	320 09	350 16	350 22	360 18	010 05	050 02	070 05	090 15	080 18	P080 24	
	030500	P	060 05	+++ ++	100 11	080 10	100 09	110 03	100 02	050 03	010 07	010 14	020 23	010 18	000 00	000 00					
	031100	T	060 10	+++ ++	100 12	110 11	120 07	120 06	100 03	030 03	360 04	030 23	020 30	030 19	110 04	130 06	110 05				
	031700	P	090 10	+++ ++	080 14	090 08	100 05	100 03	090 03	060 03	360 06	020 20	030 25	040 19	180 05	140 05	110 06	090 11			
CAMBORNE 03808	022300	T	000 00	+++ ++	100 11	100 09	110 11	120 11	230 08	280 06	290 07	320 06	350 08	350 19	060 03	230 06	150 07				
	030500	P	090 06	+++ ++	120 14	120 12	120 11	130 07	250 03	260 04	280 03	010 07	010 10	060 06	170 01	200 04					
	031100	T	100 16	+++ ++	150 12	130 11	140 10	150 06	220 02	230 02	310 02	090 09	090 10	050 08	170 09	170 10	150 10	090 11	120 17		
	031700	P	100 19	+++ ++	120 05	140 06	150 08	140 05	080 03	050 03	150 03	140 05	120 06	110 09	200 09	190 09	130 08	110 12			
VALENTIA 03953	030001	T	200 06	170 10	+++ ++	160 19	+++ ++	170 19	+++ ++	200 33	220 33	220 31	+++ ++	220 35	+++ ++	180 18					
	031200	T	180 14	170 17	+++ ++	180 23	+++ ++	200 27	+++ ++	200 40	200 40	200 44	+++ ++	210 47	+++ ++	190 17					
Ocean Weather Station 'I' 59°00'N 19°00'W	022300	T	190 09	+++ ++	190 12	200 19	190 20	190 20	190 31	190 59	200 82	190 107	200 86	190 46	180 28	170 70	140 10	110 07	090 09		
	030500	P	090 20	+++ ++	190 16	200 12	200 13	180 17	180 24	190 41	190 58	190 82	180 94	190 79	200 26	190 11					
	031100	T	200 12	+++ ++	180 18	170 20	170 20	170 20	170 24	170 42	170 83	170 71	170 55	170 37	170 22	170 11	170 05	170 05			
	031700	P	180 10	+++ ++	190 15	190 12	180 16	180 24	180 27	180 41	190 60	190 56	200 35	180 28	170 14	150 06					
Ocean Weather Station 'J' 52°30'N 20°00'W	022300	T	280 12	+++ ++	260 09	250 11	210 30	210 36	210 50	220 65	190 71	200 84	190 93	200 59	211 34	200 17					
	030500	P	270 10	+++ ++	280 12	280 15	240 18	220 32	220 41	200 51	210 60	200 72	200 71	200 62	210 21	210 15					
	031100	T	270 14	+++ ++	260 16	260 15	250 23	240 22	230 21	220 36	210 54	210 82	210 81	200 52	210 29	210 16					
	031700	P	270 10	+++ ++	260 13	260 12	250 14	230 18	210 22	210 29	210 58	190 102	200 93	200 42	200 20						
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
031148	52.0°N 24.5°W	017	010	880	061 08 03	143	05 01	003 01 05-	1460 01- 16-	1942 04- 08-	07- 09-	9790 10- 16-	13- 17-	4157 17- 26-	22- 33-	5499 27- 35-
Cloud :— 2/8 Cu 2400 to 4000 ft. 2/8 Sc 4000 to 4500 ft.																
Inversion Levels :— Isothermal Levels :—																
YYGGgg	POSITION	PRESSURE			SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf.	0°C level	m °C °C	m	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
031308	49.3°N 19.8°W	018	011	880	061 11 07	149	05 02	012 02 02-	1469 02- 06-	1951 02- 19-	04- 23-	3002 07- 28-	09- 36-	4191 13- 45-	17- 53-	5557 22- 57-
Cloud :— 1/8 Cu 3200 to 6000 ft. 5/8 Sc 4900 to 6000 ft. 1/8 Cs at 30000 ft.																
Inversion Levels :— 850 to 800mb - 24°C to -14°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	040mb 090 12 21900m 090 12 P27900m 090 30 28200m 080 28	
STORNOWAY 03026	076mb 130 06 17200m 160 07 11100/1 17700m 210 07 04740/0 12640/1	
SHANWELL 03170	543mb 240 19 450mb 270 16 P27900m 090 33 25800m 100 18 08240/2 12380/5 19550/5 17100m 210 07	
ALDERGROVE 03917	P25500m 090 25 13700/5 16700/5 16950/5	
AUGHTON 03322	P27300m 090 32 331mb 270 07 134mb 210 07 24900m 080 18	
HEMSBY 03496	P26200m 080 30 11800/1 P25600m 070 19 09850m 020 23 11650m 030 20 18000m 110 06	
CRAWLEY 03774	16800m 060 05 060mb 110 10 23100m 120 13 12470/1 15730/9	
CAMBORNE 03808	17100m 210 06 P25200m 100 14	
VALENTIA 03953	928mb 150 17 733mb 170 18 262mb 220 34 143mb 220 20 076mb 190 09 923mb 160 23 184mb 210 41	
Ocean Weather Station 'I' 59°00'N 19°00'W	543mb 190 45 220mb 200 65 075mb 140 12 035mb 070 07 12900m 190 53 04800/3 12700/1 454mb 170 66 075mb 170 08 09900m 200 45 17700m 140 06	200 117 08800m 180 102 10250m 170 84 07310m 190 66 07200m
Ocean Weather Station 'J' 52°30'N 20°00'W	216mb 200 72 177mb 200 45 01800/5 02600/0 11950/1 12500/1 318mb 210 71 227mb 200 69 169mb 200 40 085mb 210 12 06600m 210 44 07800m 200 78 11100m 200 68 14400m 200 15 06460/0 07720/0 10770/1	190 94 10090m 200 78 09500m 210 93 09440m 190 117 09600m
LARKHILL 03743		

## NOTES ON THE AEROLOGICAL SITUATION

There has been little change in the European block but the steady progression of most other features was continued. The Atlantic trough is filling slowly as it swings southeastwards. The downstream ridge has intensified a little and the strong westerly flow over central North America continues to extend eastwards.

AVERAGE AND EXTREME VALUES 1951-55  
JUNE

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22345	-48.1	-42	-55	120	11
60	19675	-48.1	-41	-55	130	3
100	16320	-48.8	-41	-56	244	5
150	13660	-48.3	-41	-59	263	10
200	11770	-49.8	-39	-67	271	16
300	9125	-46.7	-37	-56	271	22
400	7160	-32.6	-23	-44	271	18
500	5555	-20.8	-11	-31	269	14
700	2985	-5.2	3	-14	266	9
850	1435	2.8	14	-7	269	6

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	257	-54.7	10190
Max.	405	-40	12955
Min.	172	-68	6890

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22310	-49.6	-47	-57	106	9
60	19675	-51.4	-45	-59	136	3
100	16370	-52.6	-46	-61	251	8
150	13745	-51.8	-42	-65	265	15
200	11890	-54.0	-40	-65	268	20
300	9265	-44.7	-36	-54	265	20
400	7275	-29.6	-19	-41	265	17
500	5640	-17.8	-9	-28	263	15
700	3050	-2.1	7	-10	263	11
850	1480	5.7	16	-3	264	7

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	234	-56.8	10950
Max.	388	-41	13440
Min.	160	-66	7225

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5
60	19670	-60.7	-53	-69	135	4
100	16510	-62.9	-57	-71	255	21
150	13995	-59.0	-51	-67	265	38
200	12185	-56.6	-47	-67	275	42
300	9530	-40.1	-33	-46	285	32
400	7500	-23.9	-19	-29	285	27
500	5835	-11.8	-8	-17	285	24
700	3165	7.2	13	-1	290	18
850	1535	17.9	27	8	290	9

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb.	°C	mb.	mb.	°C	°C
Lower	123	-65.7	...	73	...	-73
	193	-59.8	266	...	-46	...

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.

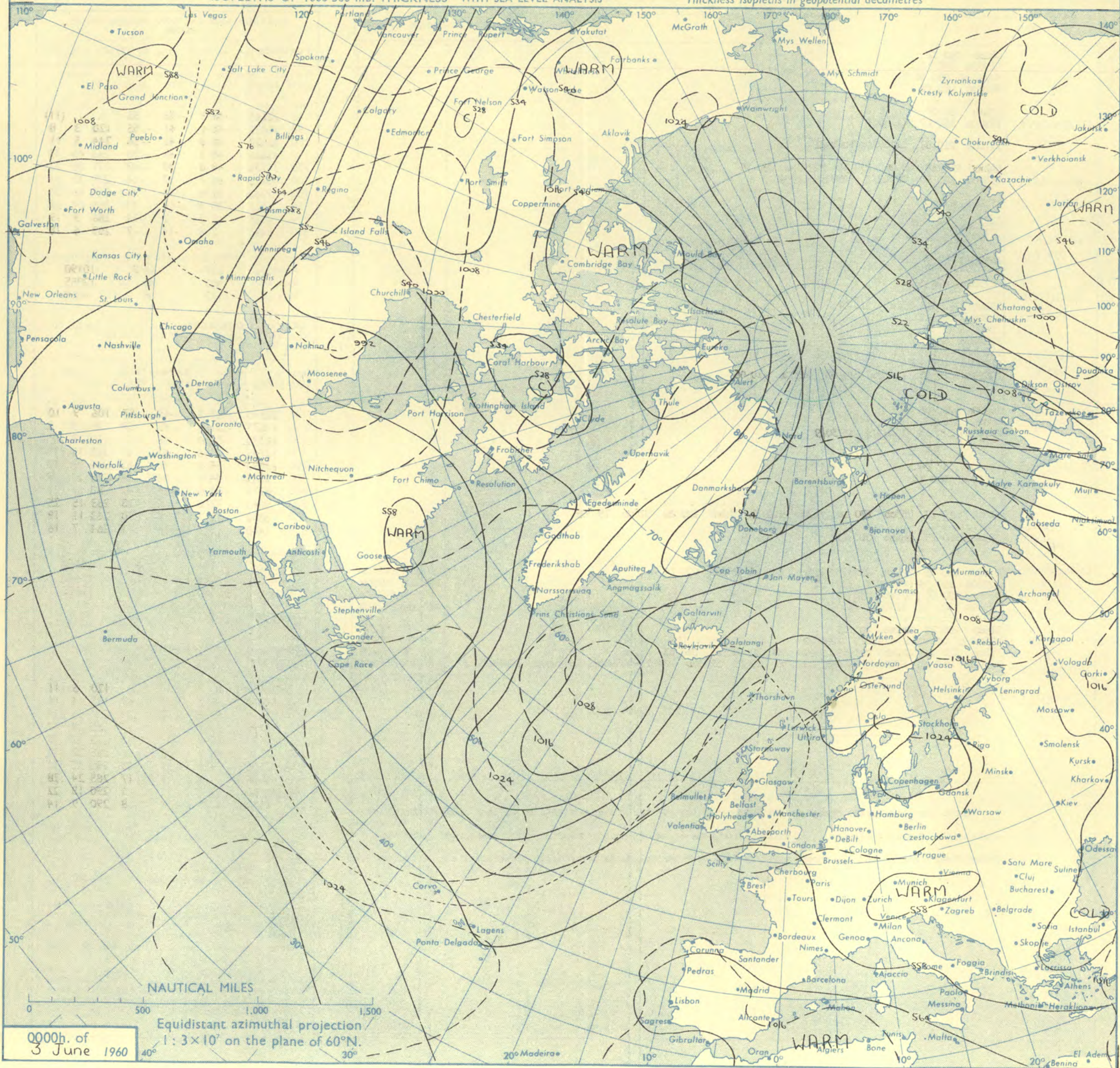
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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.

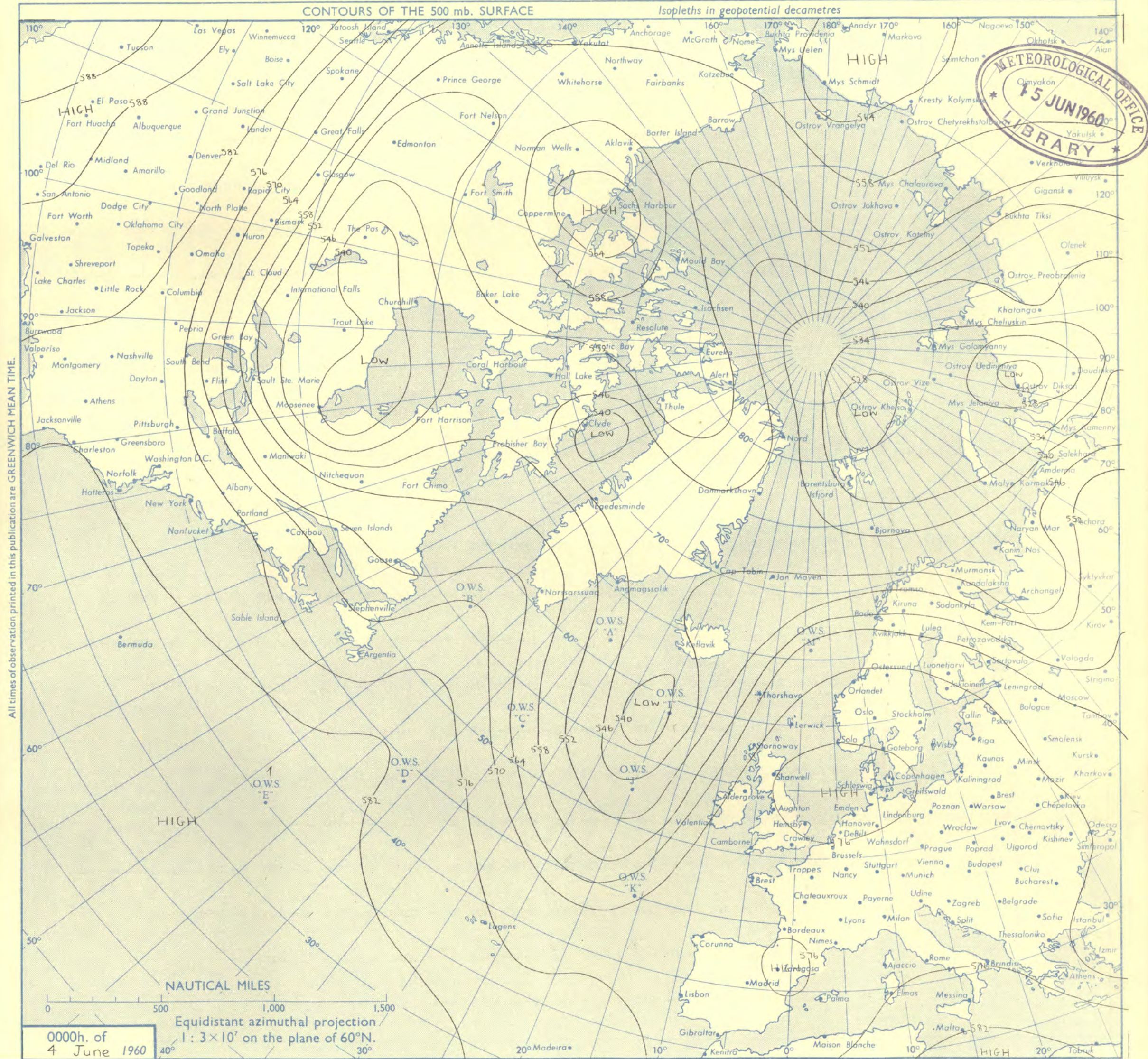


ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

Thickness isopleths in geopotential decametres









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	032245	082	11	11	184	13	13	1545	10	04-	3124	01-	05-	5724	18-	22-	7366	27-	32-	9371	43-	++	11992	62-	13788	55-	16395	53-	18714	50-	20923	48-								
	041104	082	14	12	170	12	10	1547	11	07	3135	01-	06-	5745	17-	26-	7380	29-	40-	9366	46-	++	11956	64-	13725	57-	16305	55-	18599	51-	20805	49-	24170	48-						
STORNOWAY 03026	032300	013	12	12	167	14	13	1531	08	05	3107	01-	10-	5704	18-	26-	7337	28-	35-	9332	44-	++	11929	64-	13727	57-	16313	55-												
	041108	013	19	12	147	19	10	1515	09	02	3094	00	03-	5700	19-	26-	7328	29-	37-	9318	45-	++	11911	61-	13729	53-	16342	53-	18642	52-	20840	49-								
SHANWELL 03170	032300	005	13	11	181	12	09	1553	10	06	3143	01	03-	5763	16-	30-	7409	27-	40-	9420	42-	++	12030	64-	13808	57-	16395	55-	18689	53-	20875	51-	24198	50-						
	041100	005	18	14	168	16	11	1539	10	00	3120	01-	07-	5725	18-	30-	7355	30-	41-	9336	46-	++	11913	63-	13724	55-	16327	55-	18641	50-	20846	48-	24239	41-						
ALDERGROVE 03917	032300	077	15	11	157	18	10	1536	10	05	3128	02	04-	5746	16-	25-	7384	29-	40-	9374	45-	++	11964	64-																
	041100	077	22	14	143	20	13	1515	09	06	3098	01	07-	5717	17-	21-	7350	30-	38-	9344	45-	++	11929	64-	13734	55-	16336	54-	18622	54-	20798	52-	24123	50-						
AUGHTON 03322	032300	056	17	13	170	18	11	1545	10	01-	3135	01	10-	5756	17-	27-	7397	28-	34-	9397	45-	++	11989	64-	13781	58-	16358	56-	18639	54-										
	041100	056	24	11	150	21	07	1527	10	03	3116	01	12-	5728	18-	23-	7359	29-	34-	9350	45-	++	11947	61-	13770	55-	16371	54-												
HEMSBY 03496	032300	012	12	10	186	19	12	1560	08	05	3148	02	10-	5769	18-	26-	7399	30-	38-	9376	47-	++	11974	58-	13801	57-	16386	55-	18663	53-	20838	52-								
	041107	012	17	11	167	17	07	1542	08	02	3125	02	18-	5733	18-	29-	7351	33-	42-	9306	49-	++	11902	57-	13735	56-														
CRAWLEY 03774	032300	144	13	11	170	14	12	1542	11	06-	3131	01	14-	5746	17-	23-	7377	30-	36-	9360	46-	++	11952	60-	13759	57-	16335	56-	18603	56-	20759	53-								
	041100	144	23	11	145	23	10	1523	10	04-	3111	01	23-	5721	18-	24-	7347	31-	39-	9324	46-	++	11931	57-	13760	56-	16338	56-	18604	54-	20773	53-	24075	53-						
CAMBORNE 03808	032300	088	15	11	147	16	11	1529	12	19-	3122	02	18-	5745	17-	30-	7381	29-	35-	9376	45-	++	11967	64-	13757	57-	16330	56-	18597	57-										
	041100	088	02	16	125	22	15	1519	12	06	3110	00	07-	5726	17-	29-	7360	29-	36-	9358	44-	++	11963	60-	13777	55-														
VALENTIA 03953	032330	014	12	11	146	12	10	1501	10	15-	3086	00	22-	5700	17-	27-	7340	29-	39-	9330	44-	++	11940	62-	+++++	++	16320	55-												
	041130	014	18	11	129	16	12	1484	08	10-	3065	00	14-	5680	17-	24-	7310	29-	35-	9310	42-	++	11940	60-	+++++	++	16340	53-												
Ocean Weather Station 'I'  59°00'N 19°00'W	032300		09	05	092	08	05	1405	03-	05-	2912	13-	18-	5400	29-	35-	6960	38-	44-	8910	44-	++	11640	44-	13560	47-	16240	48-	18590	48-	20810	48-	24180	48-						
	041100		10	05	112	08	04	1428	02-	04-	2940	12-	17-	5420	29-	36-	6990	39-	45-	8930	45-	++	11650	44-	13560	48-	16240	48-	18580	48-										
Ocean Weather Station 'J'  52°30'N 20°00'W	032300		11	07	144	10	06	1464	01-	05-	2989	09-	14-	5510	26-	34-	7090	38-	47-	9020	51-	++	11660	49-	13540	51-	16170	51-												
	041100		11	06	138	09	03	1457	02-	04-	2975	11-	15-	5480	27-	33-	7050	39-	46-	8990	47-	++	11680	47-																



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK  03005	03 26132	022 012 714	994 14 13 948 ++ 10 915 ++ 05 903 13 05- 812 ++ 03- 742 ++ 02- 722 ++ 04- 640 ++ 07- 608 09- 13- 592 ++ 14- 579 10- 20- 540 ++ 24- 497 18- 22- 470 ++ 23- 441 22- 29- 419 ++ 29- 372 ++ 37- 318 40- 46- 215 49- 182 64- 153 55- 119 52- 100 53- 050 48-	182 12570 64-				
	02 11400	020 011 709	994 12 10 984 18 15 967 ++ 11 909 14 08 872 12 07 858 12 08 834 09 04 757 ++ 01- 739 03 03- 702 ++ 05- 695 01- 06- 675 01- 08- 500 17- 26- 329 40- 50- 290 48- 254 54- 177 68- 175 64- 151 57- 100 55- 055 48- 030 48-	177 12690 68-				
STORNOWAY  03026		021 019 722	983 14 12 945 14 11 892 ++ 09 741 01 05- 682 ++ 12- 658 04- 15- 603 09- 20- 371 32- 39- 326 40- 46- 200 64- 168 58- 100 55-	200 11929 64-				
	02 00900	018 016 699	008 ++ 10 988 19 10 845 08 01 770 ++ 05 656 03- 11- 504 19- 26- 405 29- 37- 330 40- 48- 245 56- 216 61- 181 62- 163 53- 087 53- 040 47-	216 11450 61-				
SHANWELL  03170	01 00900	022 021 683	013 13 11 997 12 10 976 19 13 953 18 10 855 ++ 07 833 ++ 03 797 06 02 780 ++ 02- 768 05 01 735 ++ 02- 701 ++ 03 676 01- 09- 638 ++ 15- 609 ++ 14- 533 13- 22- 485 17- 31- 435 ++ 39- 313 40- 49- 187 67- 180 63- 160 58- 129 55- 030 50-	187 12440 67-				
	02 11501	020 019 717	010 15 11 979 17 09 912 13 08 888 13 01 870 ++ 00 717 00 05- 599 08- 19- 536 15- 24- 486 19- 31- 336 40- 48- 277 51- 213 63- 197 63- 183 58- 141 53- 099 55- 089 51- 066 51- 061 49- 057 51- 055 48- 032 45- 030 41-	213 11530 63-				
ALDERGROVE  03917	05 00902	020 010 681	003 ++ 10 985 20 12 810 ++ 06 786 06 00 782 ++ 03- 740 ++ 01- 714 03 03- 674 ++ 07- 640 03- 09- 616 ++ 14- 560 ++ 18- 494 17- 27- 427 ++ 50- 235 57- 216 61- 179 67-	(179 12618 67-)				
	05 10932	017 008 690	971 16 10 948 16 10 820 06 04 798 08 07- 699 ++ 07- 650 ++ 11- 616 ++ 15- 490 18- 23- 453 ++ 31- 400 30- 38- 378 31- 36- 360 35- 40- 325 ++ 45- 238 57- 203 65- 190 61- 170 61- 164 55- 075 55- 063 52- 030 50-	203 11810 65-				
AUGHTON  03322	02 00901	021 014 678	002 18 11 991 18 10 970 18 09 945 ++ 07 866 10 06 850 10 01- 840 10 02- 812 ++ 07- 738 03 08- 720 03 14- 670 ++ 09- 592 07- 19- 531 13- 20- 518 15- 25- 464 20- 33- 376 31- 35- 322 40- 44- 263 52- 212 62- 195 64- 168 59- 136 56- 100 56- 070 54-	195 12120 64-				
	02 70911	018 011 680	001 21 07 870 10 06 837 10 04- 831 ++ 07- 789 ++ 14- 780 ++ 07- 758 ++ 07- 658 ++ 13- 594 07- 17- 541 14- 20- 518 16- 23- 498 ++ 22- 429 ++ 32- 361 34- 41- 329 40- 46- 273 51- 234 57- 200 61- 168 55- 073 54-	200 11950 61-				
HEMSBY  03496	02 00900	022 021 670	019 ++ 11 005 19 12 990 ++ 09 920 14 06 843 08 05 818 ++ 08- 807 08 06- 786 06 05- 772 06 12- 751 ++ 06- 693 02 11- 558 11- 18- 340 40- 48- 224 59- 174 56- 098 55- 081 56- 064 52- 038 50-	224 11230 59-				
	02 00900	020 018 685	003 16 07 989 20 08 899 ++ 02 824 ++ 02 817 05 03- 802 07 13- 730 ++ 12- 724 ++ 19- 695 01 19- 673 ++ 10- 613 07- 16- 548 ++ 27- 510 17- 29- 455 ++ 33- 389 35- 44- 354 40- 48- 306 48- 224 58- 186 55- 150 56-	224 11180 58-				
CRAWLEY  03774	02 00900	020 003 680	979 19 11 900 13 05 892 ++ 03 873 ++ 04 858 11 05- 817 ++ 13- 809 09 12- 595 ++ 19- 510 ++ 21- 460 ++ 30- 428 ++ 31- 334 ++ 46- 312 44- 226 60- 122 55- 102 56- 048 53-	226 11190 60-				
	02 00906	017 000 691	973 18 05 858 ++ 02 855 10 01 842 ++ 12- 837 11 12- 799 ++ 24- 578 ++ 23- 539 ++ 20- 395 32- 40- 337 ++ 48- 259 53- 216 58- 191 56- 100 56- 079 57- 067 53- 030 53- Pressure suspect above 100 mb	216 11450 58-				
CAMBORNE  03808	03 00908	018 007 673	989 18 10 975 17 11 970 ++ 12 948 18 06 926 ++ 06- 898 16 13- 840 11 23- 829 11 23- 760 06 22- 670 00 17- 542 ++ 23- 492 18- 32- 425 26- 34- 394 ++ 34- 363 34- 38- 263 52- 209 63- 196 64- 156 57- 071 57- 056 53-	196 12080 64-				
	05 10931	014 004 706	985 ++ 13 956 21 12 848 ++ 06 819 09 06 805 08 01 742 ++ 03- 718 ++ 07- 698 ++ 06- 690 01- 10- 676 01- 19- 666 01- 19- 633 ++ 21 540 ++ 24- 514 16- 28- 506 16- 30- 494 ++ 29- 464 21- 34- 426 ++ 32- 407 29- 35- 385 30- 38- 351 ++ 41- 324 40- 46- 291 47- 229 58- 200 60- 187 60- 145 55- 108 55-	200 11963 60-				
VALENTIA  03953	01 16402	017 016 700	978 13 09 939 11 02 908 09 05 843 10 22- 627 05- 12- 607 07- 18- 391 30- 41- 257 52- 186 65- 171 59- 135 55- 097 55-	186 12400 65-				
	02 11601	015 014 700	977 13 10 886 08 05 865 09 01- 795 06 18- 780 06 18- 733 03 23- 635 05- 09- 470 21- 28- 270 48- 203 59- 185 61- 173 61- 173 61- 142 55- 048 57- 030 54-	185 12400 61-				
Ocean Weather Station 'I'  59°00'N 19°00'W	15 29500	011 011 897	951 04 02 885 01- 03- 790 ++ 09- 725 ++ 16- 536 26- 32- 378 40- 46- 362 42- 332 44- 228 43- 147 47- 101 48- 030 48-	332 08200 44-				
	01 12600	014 014 885	973 06 04 810 ++ 06 604 ++ 30- 576 23- 31- 428 36- 42- 393 40- 46- 356 44- 195 44- 134 49- 099 48- 095 50- 065 48-	356 07700 44-				
Ocean Weather Station 'J'  52°30'N 20°00'W	02 32500	017 017 879	934 04 01 873 ++ 01- 862 01- 03- 845 01- 05- 716 08- 13- 578 19- 27- 381 40- 48- 289 53- 194 48- 157 51- 098 51-	289 09300 53-				
	02 18500	017 017 879	003 ++ 04 841 ++ 05- 829 04- 08- 810 03- 09- 783 ++ 14- 728 ++ 13- 666 ++ 19- 604 17- 22- 582 19- 23- 386 40- 47- 314 47- 284 47- 250 45- 197 47-	314 08700 47-				



## 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
041103	48.2°N 18.0°W	018 011 850	061 11 09	149	07 02	015 03 01	1475 00 00	1960 04- 08- 05- 20-	3008 08- 27- 11- 35-	4191 16- 38- 21- 43-	5538 26- 42-			
Cloud :— 1/8 Cu. 2500 to 4000 ft. 2/8 Cu. 2500 to 8000 ft. 3/8 Sc. 4500 to 4800 ft. 6/8 Sc. 5000 to 6400 ft. 1/8 Cl. at 20000 ft. 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
041236	45.9°N 13.2°W	013 005 727	061 14 14	104	11 02	981 08 01	1451 07 08-	1948 05 31- 02 03-	3024 02- 09- 06- 16-	4231 09- 28- 15- 37-	5611 20- ++			
Cloud :— 4/8 Ac. 7000 to 14000 ft. 6/8 Cs. 25000 ft. to TNR. 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	055mb 110 08 17250/5 19200/5 P.26100m 080 34 27600m 090 34	
STORNOWAY 03026	177mb 210 38 110 mb 210 14 03600/0 11650/1 044mb 100 18 19400m 130 09	
SHANWELL 03170	P.22800m 090 20  26150m 100 20	
ALDERGROVE 03917	P.28800m 090 38 27600m 100 28 P.26400m 100 27 16850/7	
AUGHTON 03322	22200m 110 18 077mb 140 10 23400m 120 15	
HEMSBY 03496	22700m 100 16 P.25400m 080 20	
CRAWLEY 03774	056mb 110 12 15300m 160 04 P.24900m 120 14 17700m 120 05 01800/5 02720/2 05820/2 10800/2 13040/5 15590/2 17230/5	
CAMBORNE 03808	062mb 120 12 19500m 150 07 P.20400m 140 10	
VALENTIA 03953	908mb 190 14 607mb 180 38 257mb 190 43 171mb 200 37 097mb 180 19 733mb 180 23 635mb 180 30 270 mb 170 48 142mb 190 29 048mb 160 11	
Ocean Weather Station 'I' 59°00'N 19°00'W	440mb 190 67 287mb 180 51 075mb 190 11 035mb 110 03 05700m 200 56 08700m 180 56 19500m 190 01 04770/0 09390/1 481mb 180 50 075mb 120 07 06600m 190 34 11100m 170 41 22800m 010 05 05260/0 10550/1	170 99 08320m 180 78 07210m 180 69 07430m 190 78 09040m
Ocean Weather Station 'J' 52°30'N 20°00'W	448mb 200 49 227mb 190 51 104mb 200 15 19500m 090 06 21600m 020 07 07860/0 11050/1 19550/5 417mb 190 45 P.16800m 140 15 19200m 120 14 12100/1 03300m 230 12 06300m 200 41 09900m 170 45 15000m 190 13 07910/0 10550/1	200 87 08900m 190 72 09040m 180 72 08800m 170 69 08200m
LARKHILL 03743		

## NOTES ON THE AEROLOGICAL SITUATION

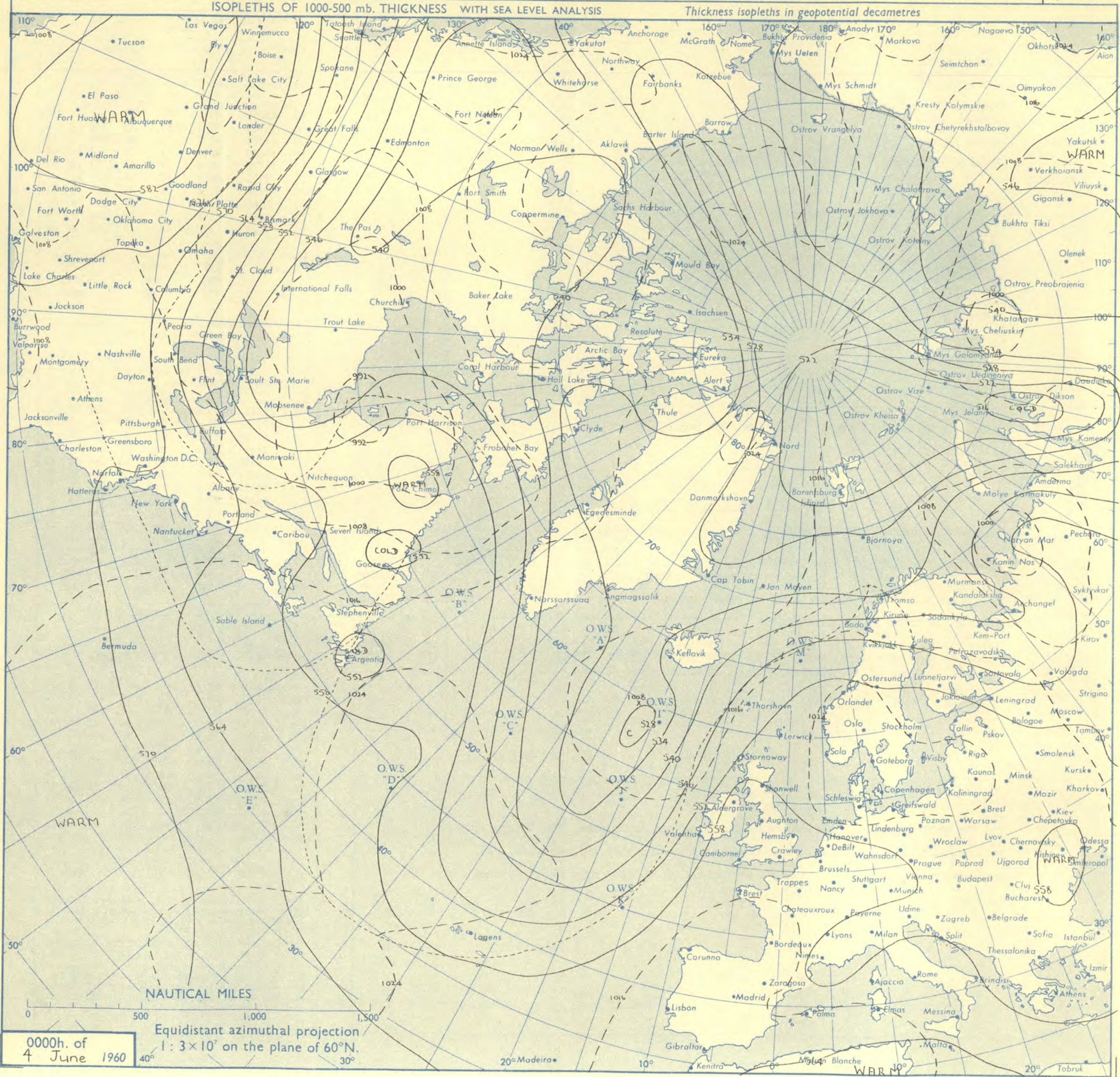
The westerly jet over North America has now reached the St. Lawrence. The upstream ridge and trough continue to move slowly eastwards while the European block has persisted. The secondary trough which has moved round the northern side of the block is now over northwest Russia.

AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
<b>LERWICK</b> (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
<b>LARKHILL/CRAWLEY</b> † 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 <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
<b>MALTA</b> (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		123	-65.7	...	73	...	-73
		193	-59.8	266	...	-46	...
* V <sub>R</sub> = Vector average wind. V <sub>S</sub> = 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

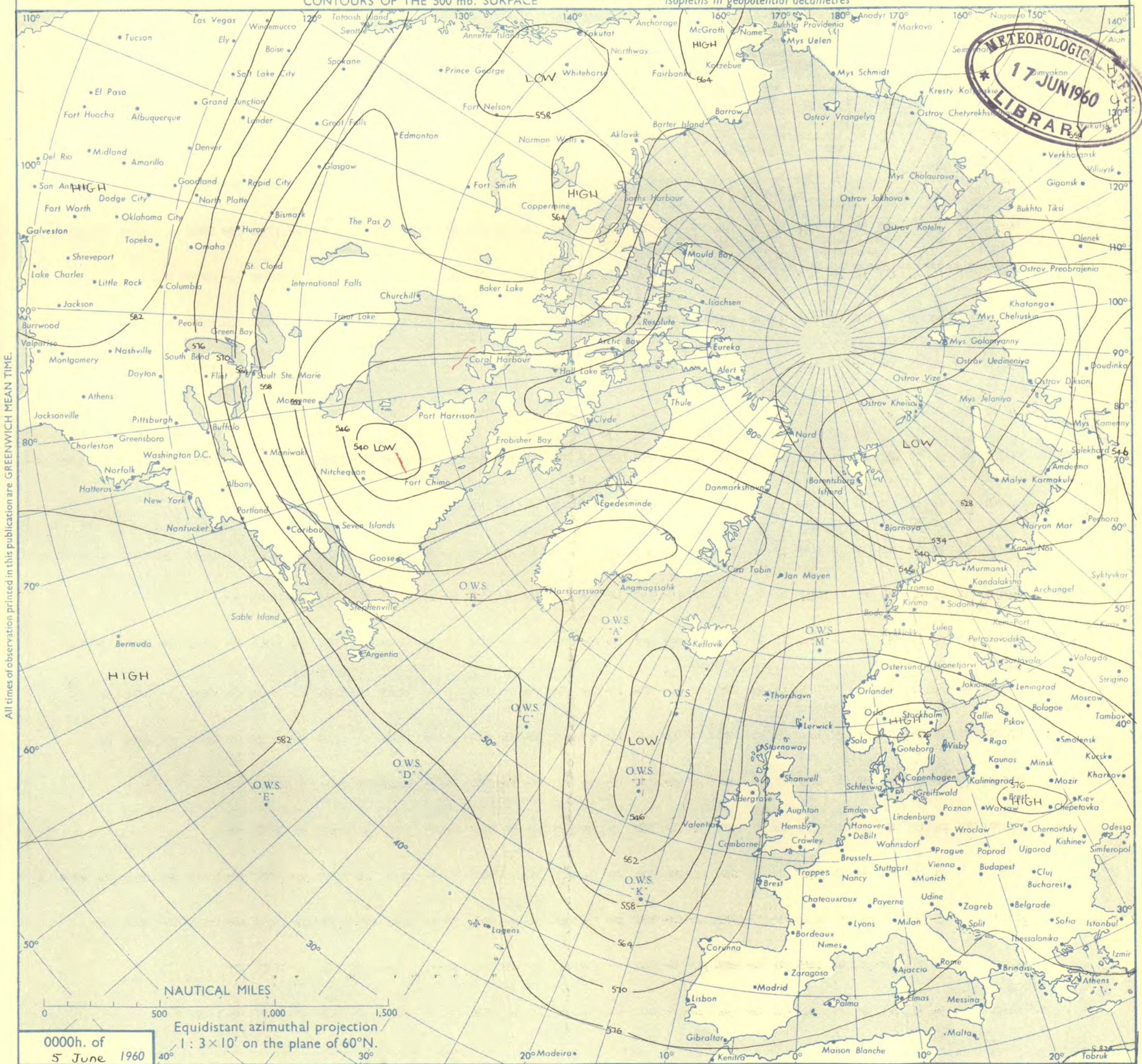
Thickness isopleths in geopotential decametres





CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres





STATION	YYGGgg	SURFACE	1000mb	850mb	700mb	500mb	400mb	300mb	200mb	150mb	100mb	70mb	50mb	30mb
		gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C
LERWICK 03005	042245	082 11 10	162 12 10	1530 11 02	3117 00 03	5728 17- 25-	7365 29- 33-	9365 43- ++	11984 61- 13793	55- 16397	53- 18702	50-		
	051114	082 15 12	151 14 09	1509 09 05	3088 02- 03-	5684 18- 24-	7306 32- 36-	9277 46- ++	11889 58- 13721	56- 16331	53- 18631	52- 20821	50-	
STORNOWAY 03026	042305	013 13 11	135 16 12	1506 09 06	3086 01- 05-	5694 18- 23-	7326 29- 34-	9318 45- ++	11921 59- 13761	53- 16389	53-			
	051105	013 17 10	096 19 09	1471 09 02	3049 01- 08-	5638 20- 28-	7258 30- 36-	9236 47- ++	11838 58- 13676	52- 16308	52- 18631	51- 20817	52- 24126	52-
SHANWELL 03170	042310	005 13 11	149 14 11	1516 10 01	3101 01 05-	5722 18- 24-	7361 28- 32-	9355 45- ++	11960 58- 13785	56- 16381	55- 18672	53- 20850	51- 24186	50-
	051100	005 16 12	117 12 10	1479 09 01	3063 00 09-	5669 18- 27-	7299 30- 41-	9284 45- ++	11892 58- 13724	53- 16339	54- 18639	51-		
ALDERGROVE 03917	042300	077 15 11	102 16 11	1480 12 04-	3068 01- 07-	5673 18- 24-	7307 29- 34-	9298 45- ++	11907 60- 13749	52- 16368	53- 18677	51- 20878	49- 24232	48-
	051100	077 20 15	061 ++ ++	1438 11 02	3022 00 05-	5627 17- 21-	7264 29- 34-	9254 45- ++	11859 59- 13701	51- 16321	52- 18629	52- 20817	49- 24161	50-
AUGHTON 03322	042335	056 16 09	121 18 10	1503 11 05	3096 01 12-	5714 17- 24-	7349 29- 38-	9340 44- ++	11960 55- 13808	53- 16422	52-			
	051100	056 25 09	082 24 10	1471 12 06	3064 00 15-	5676 16- 26-	7314 29- 39-	9302 45- ++	11912 60- 13743	54- 16347	53- 18653	51- 20850	48- 24222	50-
HEMSBY 03496	042300	012 13 12	131 20 12	1517 11 07	3109 02 13-	5729 16- 33-	7370 28- 38-	9370 43- ++	12021 54- 13861	55- 16461	54-			
	051100	012 19 14	107 17 12	1495 12 06	3087 00 06-	5694 18- 31-	7318 31- 39-	9291 46- ++	11905 57- 13731	56- 16308	56- 18472	55- 20619	54- 23888	54-
CRAWLEY 03774	042345	144 15 11	114 ++ ++	1500 12 05	3091 01 15-	5697 18- 35-	7326 30- 36-	9305 46- ++	11925 56- 13755	56- 16340	56-			
	051100	144 24 17	095 ++ ++	1490 13 05	3085 00 04-	5701 16- 26-	7340 29- 36-	9335 44- ++	11949 58- 13776	54- 16387	55- 18683	53- 20874	49- 24235	45-
CAMBORNE 03808	042300	088 17 13	087 ++ ++	1480 13 07	3080 02 16-	5702 15- 29-	7344 28- 39-	9338 44- ++	11949 60- 13770	55- 16372	55- 18651	56- 20804	53-	
	051100	088 16 15	074 ++ ++	1444 09 03	3021 02- 04-	5634 16- 21-	7272 28- 33-	9267 45- ++	11883 59- 13727	54- 16319	54- 18622	51- 20814	49-	
VALENTIA 03953	050001	014 12 11	094 12 11	1453 07 06	3027 02- 03-	5620 18- 21-	7250 30- 34-	9240 45- ++	11850 58- +++++	++ 16310	55-			
	051200	014 14 12	069 13 11	1415 04 02	2977 03- 17-	5560 20- 39-	7180 31- 47-	9140 48- ++	11780 48- +++++	++ 16350	49-			
Ocean Weather Station 'I' 59°00'N 19°00'W	042300	10 06 128	09 06 1446	02- 04- 2966	11- 18- 5470	27- 33- 7040	37- 45- 9000	46- ++ 11710	43- 13630	46- 16320	47- 18680	47- 20900	46- 24300	44-
	051100	05 01 118	09 05 1436	01- 05- 2753	11- 18- 5460	28- 35- 7030	38- 46- 8960	50- ++ 11640	46- 13550	47- 16230	48- 18570	50- 20680	49-	
Ocean Weather Station 'J' 52°30'N 20°00'W	042300	11 08 128	09 04 1445	03- 04- 2958	12- 18- 5440	30- 35- 6990	40- 45- 8930	44- ++ 11640	45- 13560	48- 16230	49-			
	051100	09 04 099	08 03 1414	02- 04- 2922	13- 17- 5380	33- 37- 6910	42- ++ 8870	43- ++ 11600	44- 13510	47- 16170	50- 18490	52-		



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE										
		MSL	Surf.	0°C level		mb	m	°C								
LERWICK  03005	03 35778	020 010 699	990 ++ 09 981 15 10 950 17 08 923 ++ 04 853 ++ 00 822 ++ 05 802 ++ 02 773 ++ 03 752 ++ 01 744 ++ 01 722 ++ 01- 699 ++ 03- 664 ++ 12- 631 ++ 13- 531 14- 23- 488 ++ 27- 321 40- 46- 201 61- 154 55- 100 53- 067 50-										201	11900	61-	
	03 00902	018 008 731	000 14 09 921 11 07 900 ++ 07 880 ++ 01 874 11 02 854 ++ 05 811 07 03 748 01 02- 693 ++ 04- 608 ++ 15- 558 ++ 17- 510 17- 23- 374 36- 40- 340 40- 46- 226 57- 185 58- 178 54- 150 56- 138 53- 100 53- 087 54- 077 51- 035 51-										226	11110	57-	
STORNOWAY  03026	29 4568+	016 015 722	995 17 12 973 17 09 895 ++ 09 779 ++ 00 758 ++ 01 703 01- 05- 689 00 04- 621 07- 14- 592 08- 15- 474 21- 26- 363 34- 38- 330 40- 45- 229 58- 211 61- 190 55- 113 51- 100 53- 092 50- 080 52-										211	11590	61-	
	05 7093+	011 010 725	001 19 09 992 ++ 06 856 10 03 796 07 00 762 02 06- 565 12- 19- 508 19- 27- 337 40- 46- 290 49- 216 59- 163 53- 081 50- 030 52-										216	11370	59-	
SHANWELL  03170	02 15500	018 017 687	952 15 08 907 13 04 894 13 03 888 ++ 02 857 ++ 03 845 ++ 01 787 05 02- 766 ++ 06- 753 04 02- 730 02 03- 711 02 04- 643 ++ 08- 598 ++ 13- 486 19- 24- 443 23- 27- 386 ++ 35- 326 40- 46- 261 53- 219 59- 175 56- 147 56- 132 54- 105 55- 030 50-										219	11360	59-	
	02 685++	014 013 701	000 12 10 963 10 08 937 15 08 907 14 07 870 11 02 799 ++ 01 788 ++ 04- 725 01 06- 711 ++ 06- 682 01- 19- 654 ++ 15- 633 ++ 19- 616 06- 16- 533 ++ 22- 415 28- 39- 333 40- 47- 265 52- 213 59- 143 52- 096 54- 052 49-										213	11480	59-	
ALDERGROVE  03917	05 10930	012 003 712	979 19 08 935 ++ 10 822 ++ 12- 803 09 08- 712 00 04- 665 ++ 18- 645 04- 19- 595 ++ 22- 526 16- 22- 512 ++ 22- 470 ++ 28- 448 ++ 29- 432 ++ 32- 416 27- 33- 375 ++ 36- 327 ++ 45- 277 49- 221 58- 217 57- 198 60- 168 53- 107 53- 054 48- 048 50- 030 48-										198	11980	60-	
	05 50935	007 998 704	976 16 10 949 14 09 926 16 06 755 04 03- 694 ++ 06- 640 ++ 17- 544 ++ 25- 513 16- 20- 450 22- 26- 343 38- 44- 243 55- 207 60- 197 58- 148 51- 122 54- 098 52- 067 52- 051 49- 030 50-										207	11640	60-	
AUGHTON  03322	02 00902	014 008 693	989 19 11 962 19 09 930 17 09 890 ++ 05 831 09 04 808 ++ 03- 748 05 08- 661 ++ 15- 591 08- 14- 550 ++ 17- 522 15- 21- 396 ++ 35- 328 40- 47- 265 51- 215 58- 205 55- 100 52- 073 52-										215	11500	58-	
	02 00902	009 003 692	995 24 11 951 19 08 905 16 07 895 15 05 827 10 06 755 04 01 735 03 06- 719 ++ 06- 698 ++ 17- 615 07- 17- 575 10- 18- 561 ++ 24- 545 12- 23- 531 13- 22- 396 ++ 40- 331 40- 46- 283 48- 259 51- 254 51- 236 55- 208 61- 197 60- 161 53- 115 55- 104 53- 045 49- 042 46- 030 50-										208	11660	61-	
HEMSBY  03496	02 00900	016 014 672	993 22 14 975 ++ 09 926 17 08 818 ++ 05 806 07 00 796 ++ 06- 740 ++ 08- 720 ++ 14- 675 00 16- 654 ++ 18- 626 04- 16- 572 ++ 20- 555 ++ 25- 513 ++ 31- 393 ++ 40- 318 40- 49- 261 49- 216 54- 100 54-										216	11520	54-	
	05 00900	013 011 707	000 17 12 969 21 11 957 ++ 08 907 ++ 05 833 ++ 06 732 ++ 07- 667 04- 08- 630 06- 10- 584 ++ 23- 486 19- 32- 346 40- 47- 259 53- 220 57- 054 56- 030 54-										220	11300	57-	
CRAWLEY  03774	02 00902	014 997 689	985 21 10 975 22 08 962 ++ 10 811 ++ 02 797 07 01- 781 07 11- 755 06 18- 595 10- 19- 566 ++ 25- 539 13- 29- 497 19- 35- 416 ++ 35- 368 ++ 39- 338 ++ 46- 272 51- 217 56- 143 54- 078 57-										217	11420	56-	
	02 00901	011 995 701	987 22 15 934 17 14 911 17 10 893 ++ 06 769 ++ 01 701 ++ 04- 690 ++ 08- 678 ++ 08- 673 03- 10- 656 ++ 13- 639 ++ 13- 610 ++ 17- 544 11- 23- 510 ++ 26- 471 ++ 27- 442 ++ 33- 325 ++ 46- 261 52- 215 58- 192 59- 145 52- 100 55- 058 52- 053 49- 039 47- 036 50- 030 45-										215	11490	58-	
CAMBORNE  03808	13 19403	010 000 678	991 19 13 988 ++ 12 963 20 13 920 18 11 885 16 11 852 ++ 07 771 06 02 751 ++ 01- 731 04 08- 709 ++ 12- 698 ++ 19- 656 ++ 12- 630 ++ 18- 601 07- 20- 581 08- 25- 460 20- 33- 371 ++ 42- 330 40- 46- 235 57- 194 61- 168 55- 070 56- 047 53-										194	12130	61-	
	58 8032+	009 999 732	978 14 12 961 15 10 927 15 05 908 ++ 06 826 07 03 764 04 01 732 00 02- 604 07- 09- 568 ++ 16- 532 13- 17- 404 ++ 33- 326 40- 46- 287 47- 206 60- 204 59- 193 60- 165 54- 158 55- 131 52- 115 51- 097 54- 054 51- 045 46- 040 48-										206	11680	60-	
VALENTIA  03953	29 896++	011 010 730	982 13 12 887 09 08 470 21- 24- 250 54- 213 58- 192 58- 175 54- 114 53- 085 56- 053 56-										213	11500	58-	
	01 724++	009 007 750	978 11 09 890 06 05 811 03 01- 775 02 04- 729 02- 08- 694 04- 21- 615 10- 32- 424 28- 45- 288 50- 241 54- 234 52- 224 53- 196 47- 065 51- 044 48-										241	10600	54-	
Ocean Weather Station 'I'  59°00'N 19°00'W	02 12500	015 015 879	950 05 04 904 ++ 01 865 01- 03- 836 ++ 03- 800 09- 10- 720 09- 16- 673 ++ 19- 656 15- 22- 594 ++ 30- 515 26- 32- 450 33- 40- 358 40- 48- 293 46- 283 44- 202 43- 184 46- 161 44- 139 47- 061 48-										293	09100	46-	
	01 21500	014 014 875	942 04 02 910 02 02- 845 ++ 06- 763 07- 14- 663 14- 21- 620 ++ 22- 561 21- 28- 411 37- 45- 376 40- 47- 308 50- 265 49- 244 46- 144 46- 080 50- 039 49-										308	08800	50-	
Ocean Weather Station 'J'  52°30'N 20°00'W	15 5353+	015 015 888	996 09 04 906 01 00 825 04- 05- 786 06- 10- 750 ++ 12- 718 ++ 17- 602 ++ 29- 560 25- 28- 523 28- 33- 398 40- 45- 335 46- 274 44- 166 46- 157 48- 085 50-										335	08200	46-	
	25 695++	012 012 887	942 03 01- 817 ++ 07- 699 ++ 17- 619 21- 24- 555 ++ 33- 502 33- 37- 448 40- 44- 411 43- 322 40- 132 49- 058 52-										411	06700	43-	



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	072mb 130 03 27600m 090 26 13950/5 18200/5 20800/0 040mb 090 16	
STORNOWAY 03026	086mb 150 09 22400m 100 17 033mb 100 22 19400m 110 11 14460/5	
SHANWELL 03170	P27900m 100 35 25900m 090 21 055mb 110 12	
ALDERGROVE 03917	104mb 150 08 P28800m 090 33 20400m 120 15 12900m 180 32 23300m 080 18	170 61 09300m
AUGHTON 03322	077mb 140 05 19200m 130 15 P25800m 080 23 12880/1	
HEMSBY 03496	23100m 070 10 P25500m 080 15 12900m 220 15	
CRAWLEY 03774	08570/2 12900/5 14260/2 15560/5 17600/5 19500m 150 10 06190/8 06650/5 16910/5 438mb 250 12 17700m 130 12 06030/2 17190/6	
CAMBORNE 03808	23400m 100 15 043mb 120 18 12870m 180 39 24900m 090 08 01790/5 12370/1 17690/5	170 70 08760m
VALENTIA 03953	00300m 160 10 00600m 160 10 775mb 200 15 615mb 170 34 241mb 170 69 196mb 170 53	180 68 09510m 170 80 10140m
Ocean Weather Station 'I' 59°00'N 19°00'W	283mb 180 52 075mb 000 00 042mb 100 29 035mb 080 51 032mb 080 36 04800m 160 22 06300m 180 44 11100m 160 30 17400m 130 07 06350/0 12300/1 445mb 160 45 270mb 160 55 075mb 120 13 042mb 090 13 06300m 250 36 12900/1 13750/0 14500/5	180 93 08230m 170 81 09200m 160 78 08140m 150 61 07780m
Ocean Weather Station 'J' 52°30'N 20°00'W	090mb 100 05 05300/6 08480/4 16100/5 15600m 100 08 02050/6 02850/5 13350/5	
LARKHILL 03743		

## NOTES ON THE AEROLOGICAL SITUATION

The strong westerlies over America continue to move east and most of the troughs and ridges in the Atlantic sector have progressed slowly. The trough to west of the British Isles has become more nearly cut off but otherwise the changes in the flow pattern are slight.

AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
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 <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropo- pause		Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		123	-65.7	...	73	...	-73
		193	-59.8	266	...	-46	...

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.

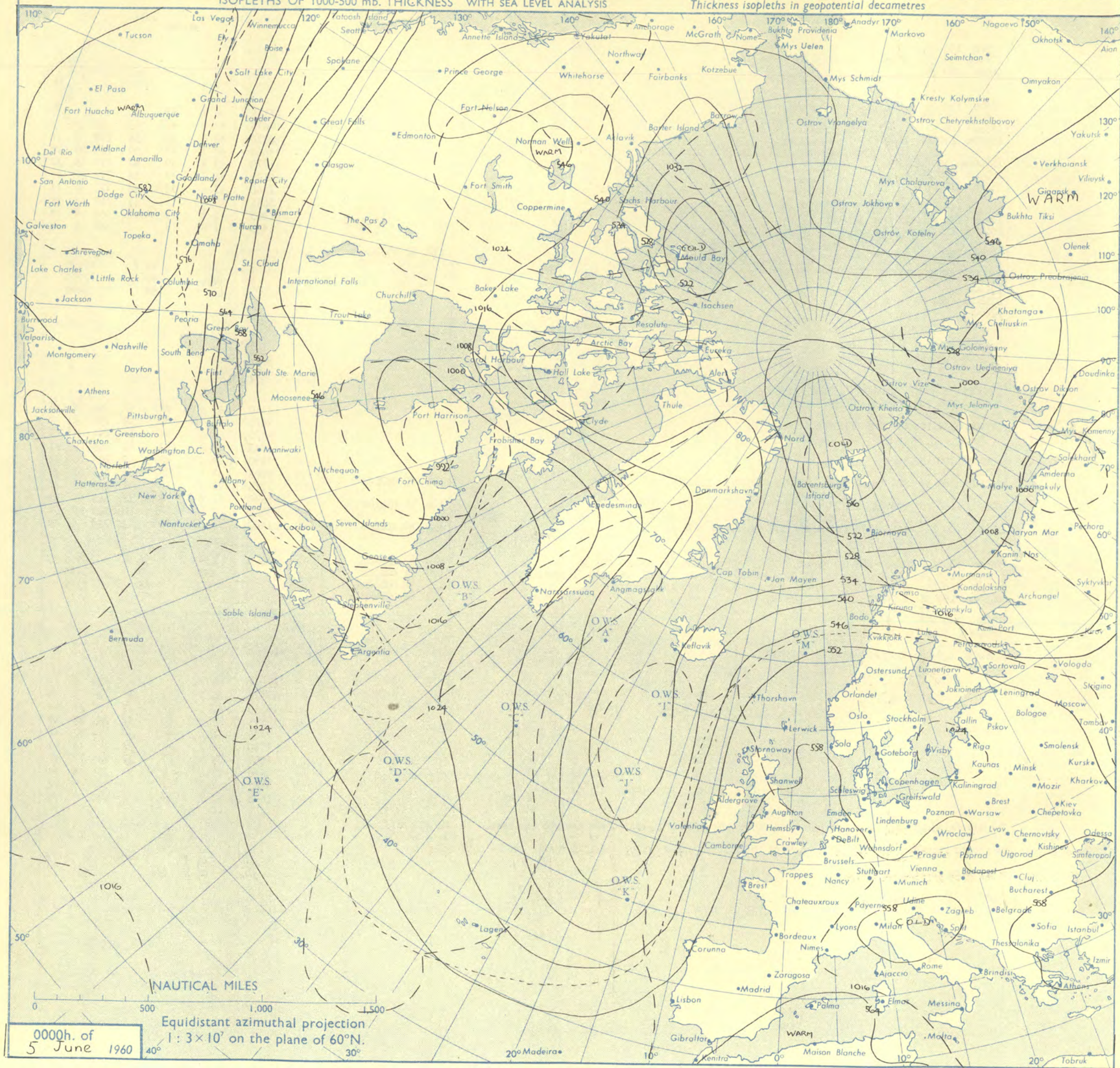
† Observations were made at Larkhill (Lat. 51° 12' N.,  
Long. 01° 48' W.) up to 28th April, 1953.

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.



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

Thickness isopleths in geopotential decametres

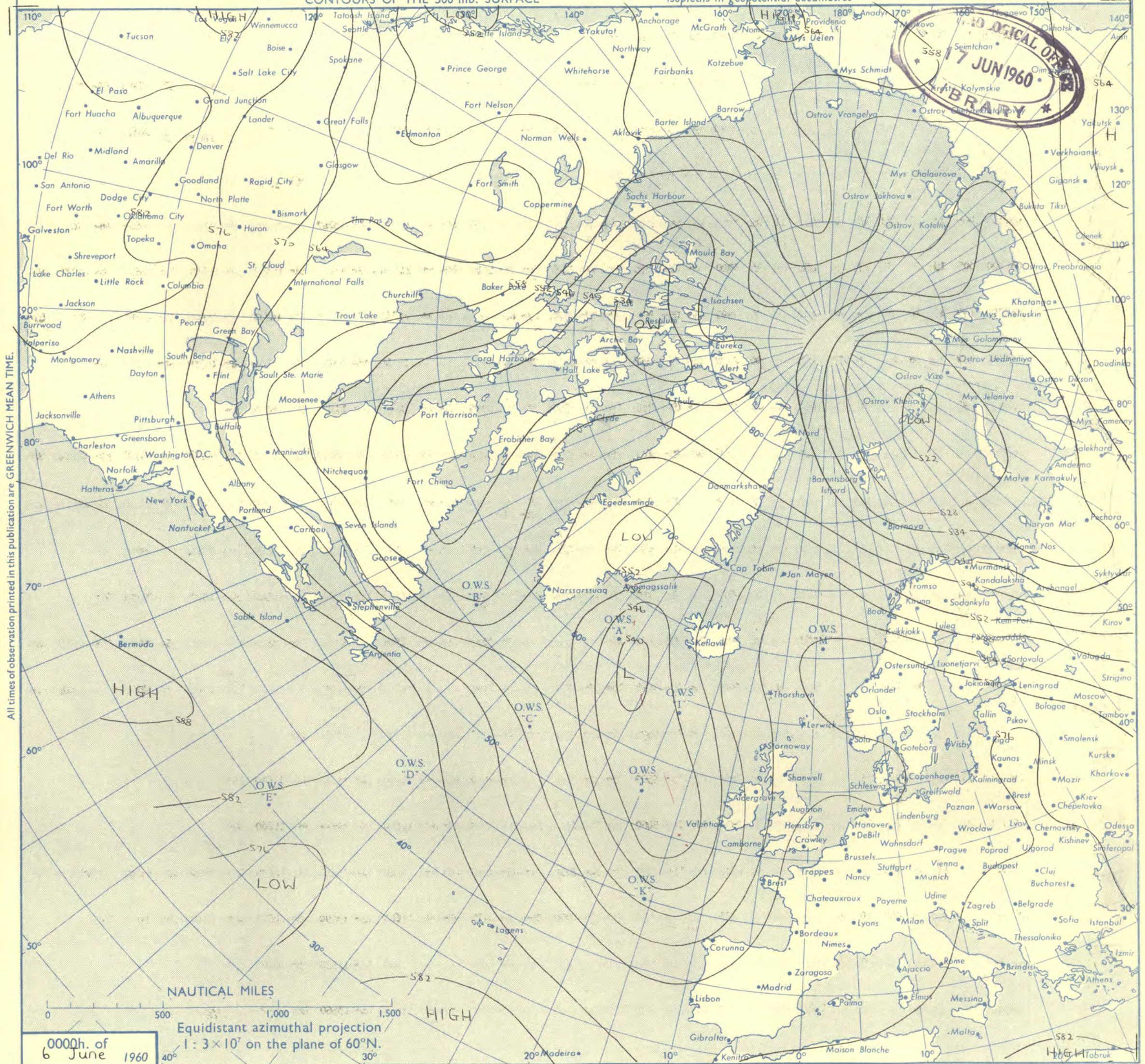




CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



NAUTICAL MILES

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

0000h. of  
 6 June 1960



STATION	YYGG <sub>gg</sub>	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	052245	082	12	10	127	12	10	1485	08	07	3063	00	23	5671	18	31	7295	31	44	9273	45	++	11894	55										
	061100	082	15	12	106	14	11	1473	10	06	3062	01	05	5677	16	28	7313	29	39	9309	44	++	11918	60	13733	56	16328	55	18618	53	20783	53	24071	53
STORNOWAY 03026	052300	013	14	12	065	15	13	1437	10	07	3017	01	09	5624	17	20	7262	29	31	9249	46	++	11849	58	13700	52	16314	53	18630	51	20819	51		
	061100	013	16	10	083	15	11	1426	05	00	2989	02	16	5594	16	33	7232	29	47	9217	45	++	11834	50	13719	49	16361	51	18685	50	20883	49	24255	48
SHANWELL 03170	052335	005	13	12	083	13	11	1453	11	02	3043	00	05	5662	16	19	7309	27	34	9309	45	++	11914	60	13747	53	16365	53	18668	52	20863	48	24215	48
	061100	005	19	15	091	17	13	1452	07	03	3020	02	07	5635	16	40	7270	30	48	9260	45	++	11854	59	13708	51	16332	52	18649	50	20854	48	24238	46
ALDERGROVE 03917	052300	077	15	14	055	++	++	1418	08	06	2991	02	05	5589	17	27	7224	29	47	9220	44	++	11862	53	13736	50	16377	52	18696	51	20886	50	24240	47
	061110	077	16	08	100	15	07	1443	03	00	2992	06	16	5556	20	30	7181	29	38	9174	44	++	11844	45	13762	46	16434	51	18758	51	20943	52		
AUGHTON 03322	052300	056	16	15	082	16	15	1450	08	05	3030	01	03	5654	15	19	7301	27	32	9306	44	++	11916	60	13763	52	16386	52						
	061100	056	16	12	113	13	10	1456	05	01	3016	02	29	5611	19	39	7238	30	39	9224	47	++	11812	56	13670	51	16290	54	18588	51	20778	50	24138	48
HEMSBY 03496	052300	012	15	12	098	20	11	1487	12	07	3082	00	06	5706	15	36	7354	28	34	9360	43	++	11968	63	13772	56	16362	56	18637	53	20810	53	24112	52
	061100	012	20	15	110	18	14	1479	09	07	3065	00	03	5697	15	20	7352	26	31	9365	43	++	11972	63	13794	52	16411	55	18714	52	20902	52		
CRAWLEY 03774	052300	144	16	14	099	++	++	1474	12	10	3072	02	01	5708	14	17	7361	26	32	9372	43	++	11990	61	13812	52	16422	54	18723	52	20905	51		
	061100	144	17	13	127	++	++	1487	09	06	3069	00	08	5687	16	19	7332	27	32	9337	43	++	11944	62	13768	53	16388	53	18688	53	20874	50	24218	49
CAMBORNE 03808	052300	088	10	09	114	12	10	1453	04	05	3009	04	19	5595	18	33	7220	31	43	9197	46	++	11807	60	13636	55	16234	55	18503	57	20646	55	23924	54
	061100	088	16	10	132	15	09	1469	02	03	3004	09	16	5529	26	39	7122	32	48	9093	46	++	11750	47	13641	51								
VALENTIA 03953	060001	014	12	09	094	12	08	1430	02	01	2968	07	13	5500	25	32	7080	37	44	9040	45	++	11750	46	++++	++	16330	50						
	061131	014	13	08	103	12	07	1431	01	06	2954	10	16	5460	29	36	7020	42	++	8944	43	++	11680	43	++++	++	16280	49						
Ocean Weather Station 'I'  59°00'N 19°00'W	052300		11	06	090	09	05	1409	01	02	2932	10	15	5450	26	34	7030	37	45	8960	48	++	11660	44	13580	46	16270	48	18620	48	20840	47	24230	46
	061100		10	05	057	10	05	1379	01	03	2903	10	21	5420	27	32	6990	39	45	8920	45	++	11660	43	13590	45	16270	49	18610	50	20820	49		
Ocean Weather Station 'J'  52°30'N 20°00'W	052300		10	07	107	09	04	1427	02	04	2941	12	18	5420	31	40	6960	44	++	8890	44	++	11620	45	13530	48	16200	49						
	061100		11	06	123	09	04	1442	01	06	2960	11	19	5470	27	39	7040	39	50	8960	47	++	11660	46	13560	48	16220	50	18540	50				



## PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	03 00900	015	005	704	980 ++ 06 973 14 06 920 ++ 06 880 09 02- 819 08 11- 797 ++ 16- 655 03- 26- 627 ++ 17- 513 16- 29- 406 30- 43- 335 40- 50- 235 57- 178 55-	225	11140	57-
	01 30930	013	003	707	987 12 09 965 15 09 908 13 01 891 ++ 06 850 ++ 06 818 09 02 777 ++ 01- 664 ++ 09- 622 ++ 16- 602 08- 13- 572 08- 18- 473 20- 31- 325 40- 325 40- 46- 253 53- 209 60- 121 54- 100 55- 030 53- Pressure doubtful above 080mb	209	11640	60-
STORNOWAY 03026	10 6577+	008	006	726	984 17 12 964 17 11 778 ++ 03 725 ++ 02- 711 01- 06- 693 01- 11- 685 ++ 16- 668 ++ 18- 587 ++ 13- 537 ++ 20- 508 16- 19- 457 ++ 23- 366 34- 36- 333 40- 43- 290 49- 217 61- 162 51- 111 54- 092 52- 044 51-	217	11350	61-
	01 32500	010	008	730	935 08 06 917 ++ 05 895 ++ 01 824 03 04- 805 ++ 06- 784 ++ 06- 765 ++ 26- 757 02 22- 714 ++ 11- 691 03- 20- 685 02- 23- 619 06- 33- 498 17- 34- 334 40- 50- 229 58- 201 50- 180 51- 173 48- 122 52- 030 48-	229	10960	58-
SHANWELL 03170	10 66406	010	009	704	959 ++ 09 954 10 06 939 16 07 934 ++ 04 882 14 04 832 10 01 792 ++ 05 740 02 02- 718 01 02- 676 02- 10- 667 ++ 10- 623 06- 15- 602 ++ 11- 574 ++ 11- 565 10- 14- 559 09+ 13- 549 ++ 16- 510 15- 18- 466 18- 24- 430 23- 31- 324 40- 47- 291 47- 211 61- 157 52- 106 52- 093 54- 052 48- 030 48-	211	11590	61-
	04 62402	011	010	722	934 11 09 900 ++ 07 865 07 03 800 04 02 744 ++ 01- 668 04- 11- 646 03- 21- 625 ++ 29- 533 12- 36- 398 30- 48- 327 40- 50- 226 60- 214 62- 206 62- 184 53- 091 52- 030 46-	214	11430	62-
ALDERGROVE 03917	10 667++	006	997	728	915 12 10 720 ++ 02- 603 09- 14- 578 ++ 19- 546 ++ 18- 536 14- 20- 508 ++ 28- 467 ++ 27- 440 ++ 38- 410 ++ 45- 324 40- 50- 255 51- 215 55- 188 51- 130 49- 105 53- 030 47-	215	11400	55-
	03 42501	012	003	811	962 11 04 905 ++ 00 795 02- 03- 776 01- 08- 770 ++ 10- 667 09- 19- 605 12- 23- 548 ++ 32- 496 ++ 29- 446 24- 34- 329 39- 45- 249 52- 198 45- 139 47- 098 51- 040 53-	249	10400	52-
AUGHTON 03322	60 855++	010	003	709	985 16 13 979 ++ 12 930 ++ 10 913 11 09 873 10 08 816 06 04 607 06- 09- 444 21- 26- 319 40- 46- 254 53- 214 60- 206 61- 180 52- 100 52-	206	11710	61-
	02 62501	014	007	739	000 13 10 933 08 06 919 08 05 912 08 04 870 ++ 03 819 ++ 03- 805 ++ 02- 773 00 09- 763 00 18- 745 00 25- 670 05- 31- 626 06- 31- 580 ++ 27- 514 18- 37- 454 ++ 43- 415 ++ 40- 380 32- 38- 356 35- 41- 331 40- 46- 288 49- 219 61- 205 57- 159 50- 096 54- 068 50- 053 52- 044 48- 030 48-	219	11240	61-
HEMSBY 03496	02 20960	011	010	698	001 20 11 977 21 09 859 13 08 770 06 00 735 03 02- 711 31 06- 689 01- 06- 632 ++ 20- 612 06- 16- 595 ++ 25- 584 ++ 21- 578 ++ 26- 571 08- 23- 567 ++ 28- 551 09- 33- 540 ++ 37- 453 20- 33- 420 25- 31- 317 40- 47- 222 59- 201 63- 195 60- 142 55- 084 57- 066 52- 030 52-	201	11950	63-
	02 857++	013	011	692	003 18 14 896 10 08 793 06 04 762 ++ 00 645 04- 08- 635 04- 11- 616 ++ 18- 600 05- 13- 576 ++ 13- 376 29- 34- 313 40- 46- 244 55- 213 61- 210 59- 199 63- 148 51- 097 55- 083 52- 048 52-	199	11990	63-
CRAWLEY 03774	02 50966	012	995	671	913 14 11 860 ++ 10 832 11 06 694 ++ 01 658 ++ 04- 594 06- 07- 458 ++ 23- 395 27- 33- 314 ++ 46- 255 51- 197 62- 153 52- 104 55- 033 49- Pressure suspect above 060mb	197	12070	62-
	02 564++	015	998	700	988 14 11 962 ++ 11 895 10 08 873 10 07 747 02 01 728 02 04- 694 ++ 09- 643 05- 12- 612 ++ 17- 564 ++ 13- 478 17- 20- 317 40- 43- 218 60- 202 62- 163 54- 157 55- 148 52- 105 54- 030 49- Pressure suspect above 060mb	202	11850	62-
CAMBORNE 03808	02 10960	014	003	773	000 12 10 990 12 08 912 06 04 893 05 02 865 04 02 859 ++ 02 850 ++ 05- 844 05 03- 823 04 02- 754 ++ 04- 02- 754 ++ 04- 740 03- 06- 721 04- 15- 717 04- 17- 698 04- 19- 599 10- 29- 559 13- 31- 463 23- 36- 339 40- 50- 306 45- 210 59- 207 59- 198 60- 165 54- 070 57- 030 54-	210	11490	59-
	15 42560	015	005	821	981 12 07 913 ++ 03 900 ++ 02 881 03 02 863 ++ 02- 709 02- 08- 770 03- 13- 603 16- 20- 543 ++ 32- 523 24- 32- 488 28- 39- 429 30- 45- 398 32- 48- 343 40- 50- 270 51- 264 50- 246 52- 234 50- 201 47- 140 50-	246	10400	52-
VALENTIA 03953	01 38500	011	010	830	989 11 07 897 04 02 813 01- 05- 801 01- 05- 706 06- 13- 531 23- 27- 467 28- 36- 401 37- 44- 312 44- 281 46- 228 45- 163 45- 085 52- 032 51-	281	09500	46-
	03 49503	012	011	860	986 11 05 874 01 03- 772 06- 11- 711 09- 14- 575 20- 27- 367 47- 352 48- 307 42- 248 41- 181 46- 121 47- 098 49-	352	07800	48-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 32500	011	011	868	941 04 03 921 03 02 891 ++ 01- 847 01- 02- 831 01- 06- 781 ++ 09- 730 08- 13- 612 16- 24- 462 30- 38- 378 40- 47- 322 48- 248 45- 232 46- 218 44- 138 46- 120 48- 060 48-	322	08500	48-
	02 22500	007	007	866	966 07 05 935 ++ 04 900 ++ 00 845 ++ 03- 835 02- 06- 817 ++ 10- 755 06- 14- 727 ++ 19- 675 12- 23- 622 ++ 22- 596 ++ 31- 542 22- 30- 486 29- 34- 392 40- 46- 346 46- 219 41- 127 48- 065 50- 058 48- 044 49-	346	08000	46-
Ocean Weather Station 'J' 52°30'N 20°00'W	25 39500	013	013	873	002 ++ 04 825 02- 04- 699 12- 28- 414 43- 397 44- 385 42- 312 44- 251 43- 123 49- 074 50-	397	07000	44-
	02 42500	015	015	875	989 ++ 02 943 04 01 840 ++ 07- 808 04- 12- 791 ++ 11- 690 ++ 19- 650 ++ 21- 611 17- 29- 449 33- 45- 395 40- 50- 373 43- 308 48- 215 46- 108 50- 077 51- 062 49-	308	08800	48-



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
061220	54.5N 28.9W	012 005 820	061 07 05	097 03 03	954 01 02	954 01 02	1411 01 07	1896 01 15	02- 05-	2957 05- 08-	08- 11-	4151 13- 15-	17- 21-	5520 21- 25-
Cloud :— 5/8 Sc. 1200 to 3100ft. 4/8 Ac. 10000 to 11000ft. 5/8 Ac. 14000 to 16000ft. Inversion Levels :— 900 to 850mb 1°C to 1°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 :—														
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	P23400m 080 18 20100m 100 14 08550/2 10800/5 14200/5 17800/5 P24600m 090 20 07650/2	
STORNOWAY 03026	113mb 160 12 11110/1 P26100m 090 22 18000m 160 04 11320/1 11820/1	150 65 09390m 160 90 09590m
SHANWELL 03170	24500m 100 17 02230/0 11670/1 13400/1 P27400m 090 26 12900m 170 36 03500/0 10700/1 11250/1 12900/1	180 88 10000m
ALDERGROVE 03917	17250m 140 12 22800m 100 12 04700m 170 44 12600m 170 38 17400m 150 18 03580/6 04920/0 09650/1 11750/1 14700/7 06600m 170 44 11330m 170 48 23100m 110 12 07050/0 07580/0 10000/0 16000/7	160 81 10210m 190 73 09500m 170 96 09420m 170 95 08850m
AUGHTON 03322	104mb 170 07 02710/0 11110/1 12530/1 P25800m 100 18 11200m 180 76 03450/0 04760/0 10840/1 11440/1	200 69 10860m 180 79 10050m 180 109 10060m
HEMSBY 03496	169mb 240 19 12410/5 170mb 190 26 P26000m 080 16 12870m 190 34 18160/5	190 63 10640m
CRAWLEY 03774	18900m 120 16 14130/1 16830/5 176mb 190 43 P28200m 100 33 27510/0 17100m 190 11 03330/0 11610/1 12130/1 13200/1	210 62 10700m 200 70 11380m 190 84 10380m
CAMBORNE 03808	181mb 190 57 P23700m 100 16 11400m 190 67 02300/5 11300/1 11850/1 16350/5 450mb 180 61 06270m 210 62 05310/0 05790/0 06690/0 08680/0 11100/1	200 85 11000m 190 102 10400m 180 107 08990m 190 100 08890m
VALENTIA 03953	801mb 230 20 228mb 180 47 163mb 180 33 032mb 120 16 772mb 180 16 575mb 180 23 248mb 180 26 121mb 160 25	180 78 09040m
Ocean Weather Station 'I' 59°00'N 19°00'W	800mb 050 04 473mb 160 33 239mb 150 29 075mb 130 09 041mb 100 19 035mb 090 27 09900m 140 46 16500m 110 15 02530/6 09830/1 452mb 170 31 075mb 160 14 06300m 150 40 08100m 150 38 03100/5 06200/0 07820/1	130 69 09100m
Ocean Weather Station 'J' 52°30'N 20°00'W	443mb 120 08 380mb 360 22 116mb 200 06 080mb 270 08 06300m 320 32 09600m 330 33 18000m 110 09 05720/0 15100/5 474mb 310 46 233mb 310 30 068mb 130 03 10200m 330 109 10800m 330 41 16500m 140 24	320 66 08070m 330 130 10230m
LARKHILL 03743		

## NOTES ON THE AEROLOGICAL SITUATION

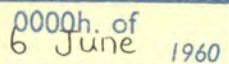
The flow in the Atlantic is becoming more westerly and the jet over Newfoundland continues to extend east.

The trough to west of the British Isles is moving east and a new centre has formed at the southern tip of the trough.

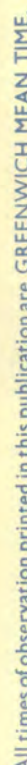
The high over Scandinavia is slowly declining.

AVERAGE AND EXTREME VALUES 1951-55										
JUNE										
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.										
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.			Wind* V <sub>R</sub> V <sub>S</sub>				
mb.	gpm.	°C	°C	°C	°C	Kt.	Kt.			
40	22345	-48.1	-42	-55		...	...	(11)		
60	19675	-48.1	-41	-55		120	3	8		
100	16320	-48.8	-41	-56		244	5	11		
150	13660	-48.3	-41	-59		263	10	18		
200	11770	-49.8	-39	-67		271	16	27		
300	9125	-46.7	-37	-56		271	22	41		
400	7160	-32.6	-23	-44		271	18	33		
500	5555	-20.8	-11	-31		269	14	26		
700	2985	-5.2	3	-14		266	9	19		
850	1435	2.8	14	-7		269	6	18		
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)					
Average		257	-54.7		10190					
Max.		405	-40		12955					
Min.		172	-68		6890					
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 Temp.		Extreme Temps. Max. Min.			Wind* V <sub>R</sub> V <sub>S</sub>				
mb.	gpm.	°C	°C	°C	°C	Kt.	Kt.			
40	22310	-49.6	-47	-57		106	9	10		
60	19675	-51.4	-45	-59		136	3	8		
100	16370	-52.6	-46	-61		251	8	13		
150	13745	-51.8	-42	-65		265	15	21		
200	11890	-54.0	-40	-65		268	20	32		
300	9265	-44.7	-36	-54		265	20	39		
400	7275	-29.6	-19	-41		265	17	31		
500	5640	-17.8	-9	-28		263	15	25		
700	3050	-2.1	7	-10		263	11	19		
850	1480	5.7	16	-3		264	7	16		
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)					
Average		234	-56.8		10950					
Max.		388	-41		13440					
Min.		160	-66		7225					
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.										
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.			Wind* V <sub>R</sub> V <sub>S</sub>				
mb.	gpm.	°C	°C	°C	°C	Kt.	Kt.			
40	(22185)	(-60.7)	...	...		120	5	11		
60	19670	-60.7	-53	-69		135	4	10		
100	16510	-62.9	-57	-71		255	21	24		
150	13995	-59.0	-51	-67		265	38	42		
200	12185	-56.6	-47	-67		275	42	47		
300	9530	-40.1	-33	-46		285	32	38		
400	7500	-23.9	-19	-29		285	27	31		
500	5835	-11.8	-8	-17		285	24	28		
700	3165	7.2	13	-1		290	18	22		
850	1535	17.9	27	8		290	9	14		
Tropo- pause		Average Press. Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.				
Upper		mb. °C	mb.	mb.	°C	°C				
Lower		123 -65.7	...	73	...	-73				
		193 -59.8	266	...	-46	...				
* V <sub>R</sub> = Vector average wind. V <sub>S</sub> = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.										
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.										
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.										











STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C			
LERWICK 03005	062245	082	12	12	093	12	12	1453	10	04	3056	01	02	5668	17	22	7309	28	32	9304	44	++	11898	64	13723	53	16337	54	18640	52										
	071100	082	13	13	070	++	++	1416	05	00	2972	03	12	5557	19	37	7191	29	48	9186	45	++	11826	50	13723	47	16390	50	18722	48	20937	48	24340	44						
STORNOWAY 03026	062300	013	10	08	097	11	09	1432	03	05	2977	05	20	5529	24	40	7140	31	48	9118	45	++	11790	47	13697	47														
	071100	013	12	09	091	11	08	1419	00	03	2949	09	12	5462	28	32	7019	41	++	8971	42	++	11711	44	13627	48	16291	49	18634	48	20845	49	24226	46						
SHANWELL 03170	062300	005	13	07	094	13	07	1440	04	01	2992	05	26	5566	18	42	7189	32	50	9168	45	++	11803	49	13689	49	16329	53	18644	50										
	071100	005	15	07	093	12	05	1427	01	03	2952	10	14	5458	29	36	7019	37	45	8993	39	49	11740	44	13653	46	16322	50	18663	49	20883	47	24267	47						
ALDERGROVE 03917	062300	077	10	07	100	10	08	1431	02	00	2967	08	13	5492	26	32	7063	38	45	9014	42	++	11757	44	13676	47	16351	50	18674	50										
	071100	077	15	07	106	14	06	1441	01	03	2967	09	19	5477	29	40	7054	31	43	9019	48	++	11718	46	13632	47	16298	50	18618	49	20833	49								
AUGHTON 03322	062300	056	10	09	120	10	08	1455	02	00	2988	09	13	5510	24	41	7114	32	50	9078	48	++	11757	49	13642	50	16275	53	18564	53	20749	52	24066	49						
	071100	056	13	07	137	11	05	1465	00	03	2992	09	15	5499	29	39	7054	37	47	9023	42	++	11744	45	13653	48	16312	51	18623	50	20834	48	24205	45						
HEMSBY 03496	062300	012	13	12	126	13	11	1481	06	04	3050	02	03	5651	17	26	7288	29	32	9288	43	++	11907	61	13730	53	16345	53	18630	54	20759	53								
	071100	012	17	06	165	14	04	1504	02	03	3045	07	25	5603	21	32	7212	32	41	9188	45	++	11833	51	13703	51	16326	54	18615	53	20785	53	24088	50						
CRAWLEY 03774	062300	144	10	08	153	10	08	1496	04	04	3046	05	18	5647	18	36	7275	30	46	9260	45	++	11887	55	13746	50	16369	55	18659	53	20842	50	24181	50						
	071100	144	17	09	181	15	07	1517	02	00	3051	07	16	5587	24	33	7182	34	45	9162	43	++	11855	48	13741	51	16377	53	18672	53	20859	50	24236	49						
CAMBORNE 03808	062300	088	10	07	150	10	05	1481	01	02	3011	09	14	5526	28	42	7096	38	49	9040	45	++	11742	47	13637	50	16274	52	18571	54	20740	52								
	071100	088	13	11	174	12	09	1509	02	00	3052	06	10	5621	20	23	7245	30	33	9234	46	++	11844	52	13708	52	16336	52	18633	54	20801	53								
VALENTIA 03953	062332	014	11	06	121	10	06	1449	00	03	2977	10	14	5480	29	34	7040	42	++	8980	44	++	11700	44	++++	++	16280	51												
	071130	014	12	11	083	11	09	1417	03	02	2969	05	06	5560	18	21	7190	28	31	9190	44	++	11820	52	++++	++	16340	50												
Ocean Weather Station 'I' 59°00'N 19°00'W	062300		10	05	046	10	06	1376	02	03	2882	10	20	5380	30	38	6950	39	46	8910	41	++	11660	43	13590	44	16290	48	18630	49	20850	49	24220	47						
	071100		10	06	017	10	06	1340	01	02	2860	11	13	5360	24	29	6960	32	36	8940	47	++	11660	42	13600	44	16300	49	18650	46										
Ocean Weather Station 'J' 52°30'N 20°00'W	062300		10	08	101	09	07	1426	00	02	2975	05	06	5550	18	21	7180	30	33	9160	46	++	11770	52	13640	51	16290	50												
	071100		12	10	018	++	++	1320	06	04	2887	02	15	5460	22	35	7060	34	46	9040	41	++	11770	45	13680	47	16350	49	18680	49										



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	21 871++	011	001	713	966 11 11 944 13 13 939 14 13 903 13 06 871 12 04 726 00 01- 639 04- 05- 562 ++ 12- 513 16- 19- 503 ++ 22- 457 20- 25- 377 32- 36- 323 40- 45- 245 56- 237 56- 194 64- 187 58- 143 52- 100 54- 058 49-	194	12070	64-
	50 861++	008	999	778	984 11 09 932 09 07 914 09 07 872 ++ 01 812 ++ 00 789 ++ 05- 779 ++ 03- 736 03- 05- 710 03- 11- 701 ++ 13- 682 ++ 11- 610 11- 16- 600 10- 20- 590 ++ 27- 534 15- 36- 514 18- 37- 463 21- 39- 380 31- 49- 324 40- 50- 291 47- 248 53- 204 51- 171 47- 100 50- 030 44-	248	10410	53-
STORNOWAY 03026	01 10930	012	010	800	992 11 08 960 09 03 931 ++ 05 828 ++ 09- 778 02- 10- 749 02- 14- 720 04- 21- 604 12- 30- 524 22- 37- 467 26- 42- 446 26- 42- 335 40- 50- 307 44- 262 50- 244 51- 236 47- 145 47- 116 51-	262	10020	50-
	25 42502	011	009	850	984 09 04 894 ++ 01 857 00 03- 802 03- 04- 780 ++ 05- 760 05- 09- 676 ++ 14- 630 15- 19- 582 19- 22- 523 ++ 30- 410 40- 44- 390 43- 373 40- 327 42- 257 41- 128 49- 053 49- 030 46-	390	07200	43-
SHANWELL 03170	02 24501	011	011	771	945 ++ 05 928 10 01 868 05 01 822 ++ 00 779 00 16- 763 ++ 20- 650 ++ 30- 625 10- 26- 559 15- 36- 555 14- 36- 534 14- 37- 417 29- 48- 382 38- 49- 343 38- 49- 256 54- 218 53- 203 49- 098 53- 054 50-	256	10200	54-
	25 52532	011	011	837	961 09 04 895 ++ 00 817 01- 04- 762 07- 10- 731 07- 10- 682 ++ 15- 674 ++ 16- 602 18- 23- 594 17- 22- 481 32- 39- 430 37- 45- 293 40- 50- 204 44- 093 51- 062 47- 030 47-	430	06530	37-
ALDERGROVE 03917	02 685++	012	003	820	998 10 07 952 07 05 930 ++ 04 870 03 01 835 ++ 00 680 ++ 14- 665 ++ 13- 621 14- 24- 595 ++ 22- 563 ++ 30- 528 ++ 30- 430 35- 41- 380 ++ 47- 365 42- 317 43- 280 41- 082 51- 057 49-	365	07690	42-
	15 69501	012	003	840	984 11 05 886 03 01- 720 ++ 13- 700 ++ 20- 679 11- 23- 590 17- 27- 483 31- 41- 440 33- 44- 407 30- 43- 347 ++ 48- 295 49- 260 45- 156 46- 080 52- 066 48- 035 48-	295	09120	49-
AUGHTON 03322	21 6097+	014	008	830	998 10 07 986 11 07 911 06 01 845 01 01- 808 ++ 05- 777 04- 05- 750 ++ 10- 718 ++ 10- 676 10- 16- 652 ++ 22- 623 16- 20- 616 ++ 19- 592 18- 22- 532 ++ 36- 489 25- 42- 418 29- 48- 349 40- 50- 291 49- 280 45- 254 50- 217 46- 200 49- 111 51- 088 54- 030 49-	291	09270	49-
	03 58560	017	010	845	007 12 06 902 03 01 880 02 01 860 01 02- 803 03- 04- 787 04- 06- 757 05- 10- 717 ++ 12- 687 ++ 17- 609 17- 22- 575 20- 28- 537 ++ 34- 429 39- 48- 418 40- 48- 397 37- 47- 346 40- 50- 315 42- 288 42- 242 45- 216 44- 134 50- 110 48- 094 53- 062 48- 043 49- 030 45-	418	06720	40- 315 08700 42- 094 16700 53-
HEMSBY 03496	25 885++	015	013	738	953 ++ 04 949 12 04 930 ++ 01 898 10 00 870 ++ 04 838 ++ 03 801 02 01 771 02 03- 762 ++ 05- 722 01- 02- 636 06- 07- 626 ++ 08- 581 11- 14- 564 11- 19- 515 ++ 28- 486 18- 26- 439 ++ 28- 320 40- 43- 215 59- 194 61- 185 61- 175 55- 145 53- 078 55- 048 53-	194	12080	61-
	02 61501	020	018	797	000 ++ 04 947 10 04 889 05 02 837 01 05- 813 01 09- 778 ++ 16- 707 07- 25- 628 10- 31- 592 ++ 33- 510 22- 32- 493 21- 32- 431 29- 41- 411 31- 40- 333 40- 49- 263 52- 247 53- 135 51- 104 54- 036 53- 030 50-	247	10480	53-
CRAWLEY 03774	02 00902	019	001	783	987 11 08 970 ++ 07 946 10 04 869 07 03- 844 ++ 04- 693 06- 19- 676 04- 18- 608 07- 25- 344 38- 49- 247 54- 230 56- 149 50- 104 55- 054 50- 030 50-	230	11000	56- 104 16100 55-
	02 52501	021	004	822	997 14 06 932 07 03 881 ++ 01 842 ++ 01- 826 ++ 07- 810 ++ 04- 800 ++ 09- 756 05- 12- 706 07- 16- 633 ++ 27- 605 ++ 29- 545 ++ 24- 511 ++ 29- 502 ++ 32- 424 32- 42- 329 ++ 50- 271 45- 209 50- 198 48- 164 49- 140 53- 134 50- 116 50- 100 53- 046 49- 043 46- 030 49-	209	11570	50- 140 14200 53- 100 16377 53-
CAMBORNE 03808	01 13460	018	008	832	000 10 05 988 10 05 908 ++ 02 783 04- 08- 748 05- 12- 722 07- 12- 608 16- 31- 548 23- 38- 394 39- 50- 310 45- 076 54- 040 52-	310	08800	45-
	80 53562	021	010	812	998 ++ 08 863 02 00 723 05- 08- 709 06- 08- 681 06- 12- 670 ++ 18- 657 ++ 21- 618 10- 17- 593 13- 17- 563 14- 17- 512 19- 22- 453 23- 26- 331 40- 43- 236 59- 226 58- 221 54- 192 51- 070 54- 035 52-	236	10790	59-
VALENTIA 03953	25 49500	013	013	850	888 02 01- 717 08- 13- 506 28- 33- 404 42- 370 44- 342 42- 205 43- 158 48- 118 48- 106 51- 070 51-	370	07500	44-
	63 864++	009	008	790	899 05 04 725 03- 04- 640 08- 10- 567 12- 15- 380 31- 34- 241 56- 228 58- 192 51- 081 50- 068 53-	228	11100	58-
Ocean Weather Station 'I' 59°00'N 19°00'W	80 856++	005	005	875	925 ++ 03 902 02 01- 864 01- 02- 814 04- 04- 756 07- 16- 694 11- 21- 496 30- 38- 463 31- 39- 406 39- 45- 320 42- 263 40- 181 44- 154 43- 074 50- 037 47- 030 47-	406	06800	46-
	02 39560	002	002	864	940 ++ 03 818 04- 05- 737 ++ 10- 665 14- 17- 560 23- 27- 551 22- 27- 488 ++ 30- 431 28- 32- 342 40- 45- 287 50- 229 42- 166 42- 155 45- 099 49- 070 46-	287	09200	50-
Ocean Weather Station 'J' 52°30'N 20°00'W	60 6847+	012	012	840	940 ++ 03 898 03 02 830 00 02- 791 01 00 683 06- 07- 459 22- 25- 336 40- 43- 273 51- 223 60- 205 53- 164 50- 151 51- 104 50- 087 51-	223	11000	60-
	02 855++	998	998	734	983 ++ 09 934 06 04 881 05 03 807 06 04 783 ++ 06- 713 01- 18- 699 02- 14- 588 13- 19- 537 18- 28- 441 29- 44- 382 37- 47- 354 40- 50- 340 38- 50- 269 43- 227 43- 180 47- 097 50- 072 50- 062 47-	354	07900	40- 269 09800 43-



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE			SURFACE		1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb						
		MSL	Surf.	0°C level	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C					
071147	53.5N 25.3W	001	994	767	061	08 06	030	05 05	872	03 03	1335	03 02	1826	02 01	01- 04-	2890	03- 16-	07- 17-	4090	12- 28-	16- 45-	5459	22- 44-
Cloud :— 8/8 St. 700 to 2500 ft. 7/8 Sc. 4700 to 5400 ft. 3/8 Ci. at 22000 ft.																							
Inversion Levels :— Isothermal Levels :— 900 to 850mb. 2.3°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					
071320	57.1N 21.5W	998	987	855	091	09 05	021-	06 05	844	03 00	1302	01- 04-	1786	02- 02-	04- 04-	2838	08- 14-	10- 15-	4026	13- 28-	17- 32-	5395	21- 32-
Cloud :— 2/8 Cu. 2000 to 3000 ft. 1/8 Cu. 2000 to 7000 ft. 7/8 Sc. 3000 to 4000 ft. 7/8 Sc. 4500 to 7000 ft. 8/8 Sc. 7000 to 9000 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	176mb 170 32 062mb 100 11 12450/1 P.24600m 070 21 04500/0 06200/0 09500/1 10820/4	160 68 10220m 150 66 06580m 140 85 08230m
STORNOWAY 03026	450mb 150 70 127mb 150 17 06050/0 09705/1 06260/2 06690/3 07150/0 09040/1 09490/7	150 98 09310m 140 84 08220m
SHANWELL 03170	431mb 150 65 225mb 170 76 060mb 190 05 04700/0 05600/0 06490/0 09430/1 10400/1 10980/1 06660m 280 42 13120m 220 15 20000m 080 06 06060/2 06600/0 09220/1 09780/1 10310/5	170 114 10440m 150 88 09180m 280 69 08410m
ALDERGROVE 03917	063mb 140 10 25300m 100 28 06950/6 17680/5 419mb 300 59 037mb 080 13	300 76 07860m
AUGHTON 03322	P.29400m 090 40 27300m 100 18 P.27300m 090 23 20100m 070 09 02860/0 10210/1	170 96 08900m 190 62 08390m 270 67 09960m
HEMSBY 03496	03450m 190 25 12800m 190 39 03450/0 08230/0 11150/1 12230/1 13100m 200 38 21900m 090 12 11150/1 13900/1 218mb 200 59 P.24700m 100 06 11000m 240 39 23100m 090 18 10120/7 14150/1 20600/9	180 85 10350m 190 89 09720m 190 106 09880m 280 62 09340m
CRAWLEY 03774	21900m 080 21 14030/1 13690/1 19320/5 06200m 200 63 24900m 110 21 08580/1 10150/1 12380/1 16320/2 17500/5 19500m 150 06	190 86 10900m 210 91 10190m 200 96 08320m
CAMBORNE 03808	044mb 090 11 19100m 080 06 14870/5 18300/5 648mb 270 33 118mb 310 71 038mb 100 09 11400m 270 44 21300m 060 06 11380/1 11960/1 16460/5 20070/5	220 69 08270m 310 71 09880m 240 61 09590m
VALENTIA 03953	888mb 280 19 342mb 300 38 158mb 260 11 00300m 170 32 00600m 170 40 16800m 310 07	260 73 09600m
Ocean Weather Station 'I' 59°00'N 19°00'W	328mb 190 05 126mb 140 05 075mb 110 09 035mb 080 23 07800m 260 50 09900m 290 48 16500m 070 11 06000/3 07500/0 05500/1 10050/8 461mb 260 40 264mb 260 33 075mb 070 03 05100m 230 27 10800m 260 32 17700m 230 09 05510/0 10700/1	140 60 06750m 280 90 09350m 290 62 08410m
Ocean Weather Station 'J' 52°30'N 20°00'W	266mb 310 87 235mb 310 93 211mb 300 48 094mb 000 00 11100m 260 45 13800m 290 22 20100m 300 11 06730/0 11750/1 215mb 270 42 17100m 250 12 18000m 220 12 09050/0 10580/1 14250/1	310 103 10560m 300 78 09450m
LARKHILL 03743	12020/1 18330/5	210 99 08840m

## NOTES ON THE AEROLOGICAL SITUATION

The complex low over Labrador is drifting slowly southward. The low over the central north Atlantic is slow moving and the associated trough to the west of the British Isles is swinging rather quickly northeast.

The ridge from eastern Europe to Greenland is moving slowly eastward, and a rather flat and complex low extends over the Mediterranean and the Black Sea.

AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
<b>LERWICK</b> (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
<b>LARKHILL/CRAWLEY</b> † (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.) at 03, 15h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
<b>MALTA</b> (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropo- pause		Average Press. Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
Upper		mb. °C	mb.	mb.	°C	°C	
Lower		123 -65.7	...	73	...	-73	
		193 -59.8	266	...	-46	...	
* V <sub>R</sub> = Vector average wind. V <sub>S</sub> = 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

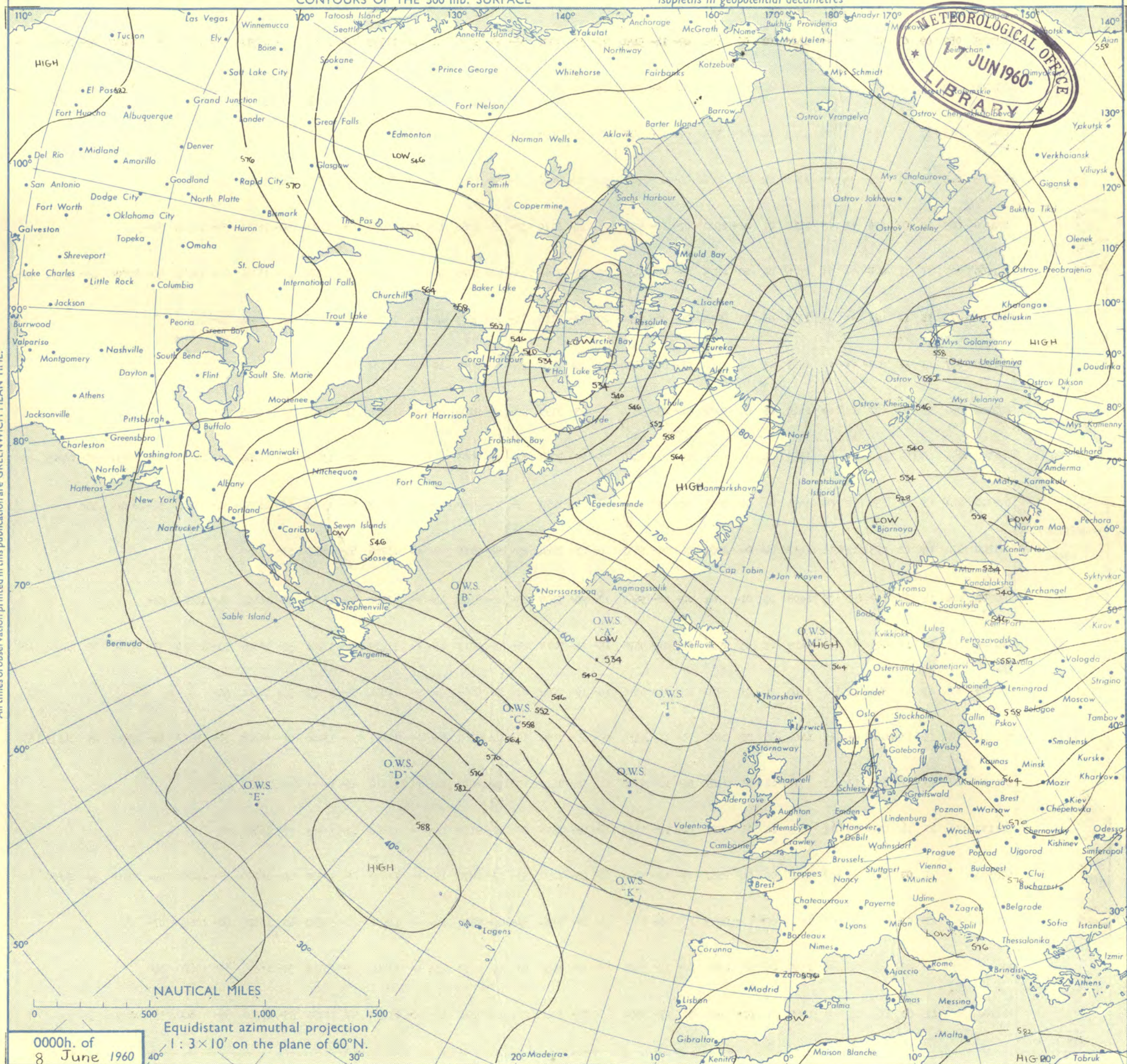




CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



NAUTICAL MILES

0000h. of  
8 June 1960Equidistant azimuthal projection  
1:3 x 10<sup>7</sup> 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	072245	082	09	07	071	++	++	1403	01	00	2934	09	14	5450	27	33	7021	35	43	9006	40	50	11739	46	13651	47	16312	50	18632	51	20832	49	24171	50						
	081100	082	12	10	025	++	++	1357	02	01	2905	05	06	5481	19	22	7109	30	35	9086	46	++	11761	44	13682	45	16368	48	18721	48	20955	44	24361	45						
STORNOWAY 03026	072300	013	11	09	053	12	09	1389	02	02	2925	07	12	5469	23	31	7073	33	39	9035	47	++	11701	46	13608	47														
	081105	013	12	11	031	++	++	1302	02	01	2854	04	05	5430	20	23	7042	33	37	8992	51	++	11682	45	13603	46	16272	50												
SHANWELL 03170	072300	005	10	07	076	11	05	1408	01	01	2942	07	10	5501	21	24	7110	33	38	9066	47	++	11708	48	13600	50	16254	52	18565	51										
	081100	005	17	11	024	++	++	1324	05	00	2875	04	10	5452	20	31	7064	33	42	9023	46	++	11744	43	13677	46	16356	49	18689	50	20886	49	24231	49						
ALDERGROVE 03917	072300	077	13	12	011	++	++	1358	05	03	2919	04	06	5500	20	23	7116	31	35	9083	48	++	11750	46	13652	48	16314	50												
	081100	077	13	11	029	++	++	1309	03	02	2858	05	06	5430	22	26	7025	35	39	8981	40	47	11737	42																
AUGHTON 03322	072300	056	13	09	077	12	09	1420	06	04	2982	04	05	5574	19	23	7199	30	35	9184	46	++	11804	51	13678	51	16315	52												
	081100	056	16	09	012	++	++	1363	04	02	2911	05	22	5469	23	29	7059	37	42	9003	44	++	11711	46	13616	49	16266	52	18589	50	20797	48	24209	40						
HEMSBY 03496	072300	012	13	07	150	12	06	1494	04	04	3051	04	09	5642	18	21	7272	29	34	9258	46	++	11867	55	13722	53	16351	52	18643	54	20810	53								
	081100	012	14	12	075	13	11	1417	04	00	2969	04	06	5553	18	23	7184	29	34	9166	47	++	11746	55	13593	53														
CRAWLEY 03774	072300	144	11	08	157	11	08	1498	04	01	3064	02	08	5667	17	20	7305	28	32	9305	44	++	11902	58	13744	53	16353	54	18643	54										
	081106	144	12	12	083	++	++	1429	05	03	2989	03	05	5578	16	21	7218	28	33	9217	45	++	11839	52	13706	52	16326	53	18624	53	20808	52	24148	48						
CAMBORNE 03808	072300	088	13	13	102	12	11	1446	05	03	3010	03	04	5616	16	19	7262	27	31	9261	46	++	11854	55	13699	54	16301	54												
	081100	088	15	13	060	++	++	1404	04	02	2963	03	10	5554	20	35	7180	30	34	9168	44	++	11837	51	13706	52	16328	53	18627	54	20819	49	24173	47						
VALENTIA 03953	072330	014	13	11	028	13	11	1374	04	03	2929	04	12	5500	21	36	7110	33	39	9070	45	++	11810	45	++++	++	16410	48												
	081130	014	13	11	014	13	11	1359	04	03	2918	02	12	5520	18	29	7150	28	40	9150	44	++	11860	47	++++	++	16380	53												
Ocean Weather Station 'I'  59°00'N 19°00'W	072300		11	07	013	11	07	1341	00	04	2867	09	13	5400	21	28	7010	33	37	8970	47	++	11650	45	13580	44	16270	49	18600	49	20810	50	24160	49						
	081100		11	07	033	10	07	1358	01	02	2883	10	16	5390	26	29	6970	37	43	8930	42	++	11680	42	13610	46	16310	48	18660	47										
Ocean Weather Station 'J'  52°30'N 20°00'W	072300		12	09	009	12	09	1345	05	02	2905	02	15	5500	18	38	7140	28	34	9150	43	++	11840	49	13710	51	16340	54	18630	54										
	081100		12	09	055	11	08	1384	02	01	2945	00	17	5560	16	35	7210	26	44	9230	40	50	11890	54	13730	55	16320	56	18600	55	20740	55								



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE			TROPOPAUSE mb m °C
		MSL	Surf.	0°C level	
LERWICK 03005	25 684++	009 999 834	989 09 04 939 07 02 867 02 01 771 ++ 05- 724 07- 12- 688 ++ 14- 666 ++ 17- 652 ++ 17- 599 ++ 27- 569 ++	31- 462 ++ 36- 427 36- 41- 396 35- 43- 309 40- 50- 100 50- 030 50- Pressure doubtful above 080mb	427 06550 36-
	60 2567+	003 993 814	976 09 07 960 ++ 04 873 03 02 838 02 01 803 01- 02- 743 02- 03- 572 ++ 16- 559 15- 20- 552 14- 19- 513 ++	20- 495 ++ 22- 476 ++ 24- 468 23- 26- 459 22- 26- 447 ++ 29- 339 40- 46- 314 44- 261 52- 250 18- 190 44- 100 48- 063	261 10000 52-
STORNOWAY 03026	02 12640	007 005 829	998 12 09 940 ++ 02 794 03- 07- 711 06- 11- 597 15- 21- 545 17- 24- 497 23- 31- 459 26- 32- 350 40- 46- 258 54-	233 47- 136 47-	258 10020 54-
	63 5742+	996 995 782	982 09 08 807 00 01- 782 00 01- 509 19- 22- 356 40- 44- 297 51- 269 47- 166 45- 127 47- 117 50- 087 51-	076 48-	297 09040 51-
SHANWELL 03170	02 54502	009 009 830	002 11 05 915 ++ 02 860 01 01- 825 ++ 02- 770 ++ 06- 760 04- 10- 715 ++ 09- 655 10- 12- 595 12- 16-	496 22- 25- 394 ++ 39- 354 40- 45- 329 44- 254 53- 235 53- 211 48- 106 50- 088 53- 075 50- 067 51-	254 10140 53-
	02 4356+	997 997 788	983 14 08 945 11 06 862 05 00 724 05- 09- 690 04- 11- 636 08- 18- 556 14- 26- 352 40- 49- 309 46- 274 44-	163 43- 146 47- 104 49- 059 51- 041 48- 030 49- Pressure doubtful above 100mb	309 08810 46- 146 13860 47-
ALDERGROVE 03917	21 363++	001 992 774	868 ++ 04 815 ++ 01- 797 ++ 00 721 03- 04- 658 06- 08- 607 11- 14- 556 14- 17- 414 29- 33- 345 ++ 45- 302	48- 277 51- 247 51- 228 46- 158 48- 083 50-	277 09600 51-
	61 464++	997 987 791	972 11 09 900 05 03 725 04- 05- 706 ++ 06- 576 12- 15- 474 ++ 30- 450 29- 34- 395 35- 39- 341 44- 311 40-	196 42-	341 08110 44-
AUGHTON 03322	02 855++	009 002 754	940 08 06 871 07 05 835 ++ 03 577 12- 14- 552 13- 16- 462 24- 30- 418 27- 32- 332 40- 46- 255 55- 232 57-	216 52- 136 50- 084 53-	232 10870 57-
	02 785++	002 995 798	985 14 07 890 ++ 04 869 05 03 853 ++ 02 836 03 02- 754 ++ 05- 744 05- 12- 738 ++ 15- 733 03- 15- 683 06-	25- 652 08- 27- 577 15- 19- 564 16- 23- 524 ++ 27- 440 31- 34- 429 ++ 38- 404 36- 40- 376 40- 46- 332 44-	332 08330 44- 110 15660 52-
HEMSBY 03496	03 3097+	018 016 760	005 12 07 982 12 05 940 ++ 01- 852 ++ 04- 823 02 03- 758 00 12- 671 06- 09- 558 13- 16- 332 40- 45- 286 49-	221 59- 178 53- 098 52- 083 55- 038 51-	221 11250 59-
	61 864++	009 007 788	998 13 10 939 08 06 884 ++ 04 867 05 01 818 ++ 03- 784 00 02- 677 06- 09- 652 06- 11- 418 26- 31- 332 40-	46- 236 62- 193 54- 143 54-	236 10700 62-
CRAWLEY 03774	02 70912	019 002 732	980 11 06 912 ++ 02- 873 ++ 02 850 ++ 01- 827 03 02- 816 ++ 02- 808 ++ 05- 785 03 07- 750 ++ 09- 658 ++	09- 581 ++ 14- 380 30- 34- 322 ++ 44- 224 60- 206 61- 192 55- 100 54- 054 53-	224 11210 60-
	61 7722+	010 993 761	984 11 09 873 07 05 631 08- 11- 580 ++ 14- 551 ++ 19- 514 17- 23- 499 16- 21- 483 19- 24- 433 24- 30- 325	40- 46- 237 58- 199 52- 100 53- 030 48-	237 10750 58-
CAMBORNE 03808	63 872++	012 002 770	990 ++ 10 820 03 02 764 01- 02- 725 02- 03- 567 11- 13- 425 23- 26- 326 40- 44- 292 47- 229 61- 195 54- 100	54- 087 55-	229 11010 61-
	02 684++	007 997 768	984 13 11 915 08 06 755 01- 02- 739 01- 05- 710 ++ 10- 694 ++ 10- 683 ++ 16- 656 05- 20- 643 05- 22- 622	++ 27- 498 20- 35- 478 21- 31- 447 ++ 29- 406 29- 32- 331 40- 47- 273 48- 089 54- 075 51- 069 55- 055 49-	273 09790 48-
VALENTIA 03953	02 764++	003 002 782	890 06 03 806 01 01- 753 01- 09- 557 15- 28- 491 22- 36- 439 28- 35- 320 46- 267 42- 224 42- 181 47- 112	47- 075 54- 065 53-	320 08600 46-
	25 784++	002 000 780	923 07 05 824 03 02 757 01- 05- 569 11- 23- 456 24- 35- 421 25- 36- 377 31- 41- 348 37- 45- 297 44- 216	44- 176 51- 131 49- 115 53- 073 51-	300 09150 44- 176 12700 51- 115 15500 53-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 58578	002 002 850	930 ++ 04 883 ++ 02- 781 05- 09- 751 05- 11- 740 ++ 13- 602 ++ 21- 596 19- 22- 576 16- 24- 559 ++ 30- 535	++ 33- 526 19- 31- 487 ++ 27- 345 40- 43- 279 51- 234 45- 181 44- 167 46- 147 44- 088 50- 030 49-	279 09400 51-
	02 32578	004 004 858	938 ++ 03 882 02 00 830 02- 03- 793 04- 07- 774 04- 08- 703 10- 16- 664 14- 18- 622 16- 19- 585 20- 23-	548 21- 24- 480 27- 30- 425 34- 39- 372 40- 47- 337 42- 282 41- 196 42- 146 46- 112 47- 090 49-	337 08200 42-
Ocean Weather Station 'J' 52°30'N 20°00'W	03 754++	009 009 746	905 05 04 862 06 04 768 01 06- 625 06- 28- 518 17- 38- 479 20- 43- 457 23- 41- 432 24- 35- 395 ++ 33- 320	40- 46- 298 43- 211 50- 197 49- 167 52- 145 51- 106 54- 070 54-	211 11500 50-
	02 725++	007 007 700	988 ++ 07 930 05 03 882 02 00 855 02 01- 816 01 04- 789 03 04- 761 01 08- 717 01 16- 492 16- 35- 384 29-	48- 303 40- 50- 256 49- 198 54- 096 56- 042 55-	198 11900 54-



STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	072245	T	280 12	+++ ++	240 06	160 08	200 09	210 10	180 10	240 11	190 16	170 21	240 21	180 16	190 12	190 12	220 07	090 03	070 08	070 16	080 20
	080500	P	180 02	+++ ++	180 10	180 09	220 17	220 15	220 20	250 30	250 47	250 44	240 18	190 12	180 09	210 05	040 06	080 10	090 18		
	081100	T	110 16	+++ ++	130 24	130 25	170 21	180 21	190 24	220 24	200 27	200 32	290 26	180 16	200 09	240 06	150 03	110 07	080 13		
	081700	P	120 18	+++ ++	140 24	140 25	130 19	150 16	130 22	130 17	130 24	130 27	160 18	190 11	210 07	200 03	280 06	070 07	080 18		
STORNOWAY 03026	072300	T	100 12	+++ ++	140 16	150 16	150 20	150 19	220 16	230 22	240 19	250 20	240 19	190 13	230 07						
	080505	P	070 17	+++ ++	110 18	110 17	110 17	170 14	180 16	170 23	150 20	180 30	170 14	200 11	200 06	200 06					
	081105	T	050 17	+++ ++	080 09	080 10	060 18	050 19	070 19	070 19	090 16	110 22	160 08	180 06	230 08	240 03					
	081700	P	000 00	+++ ++	040 09	040 10	040 09	050 11	050 09	050 18	040 18	030 15	320 03	260 07	240 10						
SHANWELL 03170	072300	T	150 06	+++ ++	170 18	180 22	190 21	200 32	220 35	230 35	230 37	240 37	230 36	230 22	210 16	250 04					
	080500	P	140 10	+++ ++	200 33	190 26	180 21	170 31	160 38	180 31	180 42	190 51	180 30	210 18	230 15	210 06	210 03				
	081100	T	210 15	+++ ++	220 22	220 24	220 25	210 23	200 27	190 30	190 35	190 40	190 28	200 23	230 13	210 07	P120 07	050 06	080 15	080 19	
	081700	P	190 12	+++ ++	210 16	220 19	220 17	220 16	200 15	210 15	250 13	220 16	230 20	230 16	240 10	230 07	340 03	040 04	090 15		
ALDERGROVE 03917	072300	T	190 12	+++ ++	220 21	220 19	210 22	190 24	190 36	210 45	200 54	200 59	200 45	220 22	230 18	180 05					
	080500	P	200 08	+++ ++	240 19	240 22	230 22	220 25	220 27	220 27	230 33	230 30	220 25	230 20	250 08	200 06					
	081100	T	210 12	+++ ++	210 21	220 16	230 11	230 11	220 11	220 14	220 13	240 20	250 22	250 16	P260 14	240 05					
	081700	P	260 04	+++ ++	290 13	280 16	280 20	280 19	290 21	270 21	280 23	270 32	280 25	270 21	260 16	280 13	290 04	350 05			
AUGHTON 03322	072300	T	150 19	+++ ++	200 46	220 46	220 37	220 35	210 27	220 36	240 48	230 55	230 54	230 29	230 20	260 08					
	080500	P	150 18	+++ ++	200 39	220 36	220 32	230 35	230 36	210 44	210 48	200 75	220 47	230 27	240 19	230 07	120 05	030 07			
	081100	T	230 16	+++ ++	220 27	220 32	220 35	220 35	220 36	220 50	220 55	220 63	220 40	230 28	240 20	230 08	140 05	070 06	P100 17		
	081700	P	220 17	+++ ++	230 35	240 34	230 30	230 31	250 30	250 40	250 46	240 40	250 32	250 27	250 19	260 10	270 09	040 08			
HEMSBY 03496	072300	T	190 10	+++ ++	220 22	220 24	230 25	230 27	240 35	240 50	240 53	240 57	240 50	240 39	230 23	220 11	260 03	060 06	P070 09	080 22	
	080500	P	170 10	+++ ++	190 36	210 37	210 37	210 49	220 49	220 46	220 54	230 57	230 59	230 30	230 19	240 11	110 04	060 07			
	081100	T	200 19	+++ ++	210 41	220 44	230 33	230 33	230 42	210 51	210 72	210 72	220 75	220 42	230 19	240 11	250 06	010 07			
	081700	P	190 18	+++ ++	220 38	230 36	230 37	220 40	230 47	210 49	210 59	220 73	210 71	230 42	240 26	240 17	250 06				
CRAWLEY 03774	072300	T	170 06	+++ ++	220 33	220 34	230 34	230 36	230 39	230 46	230 55	250 38	250 36	250 38	230 23	210 11	110 05				
	080500	P	210 10	+++ ++	210 36	220 40	230 46	230 48	220 54	220 53	230 55	230 53	230 59	240 44	240 23	240 12	210 06				
	081100	T	180 10	+++ ++	220 30	230 40	230 36	240 33	230 39	230 53	230 69	220 72	220 75	230 46	230 23	230 12	130 05	140 07	090 10	100 12	
	081700	P	210 15	+++ ++	230 33	230 33	240 38	230 40	230 45	240 48	230 62	230 72	240 60	250 43	260 29	250 15	270 07				
CAMBORNE 03808	072300	T	190 25	+++ ++	220 49	220 49	220 45	220 46	230 48	220 52	240 63	240 67	240 69	250 45	260 24	270 11					
	080500	P	210 10	+++ ++	260 25	250 30	250 34	250 36	250 37	240 51	240 60	230 61	240 57	260 44	260 21	280 11	060 01	050 10	090 12		
	081100	T	220 15	+++ ++	240 25	250 26	250 33	250 30	250 36	250 46	250 54	250 48	260 53	270 41	260 26	250 10	340 04	120 10	110 11	P100 15	
	081700	P	250 12	+++ ++	260 22	260 28	260 31	260 36	260 43	260 47	260 62	260 63	270 56	270 46	270 30	270 17	310 04	130 03			
VALENTIA 03953	072330	T	260 11	260 12	+++ ++	260 31	+++ ++	240 38	+++ ++	250 37	270 38	270 46	+++ ++	260 34	+++ ++	270 14					
	081132	P	270 20	+++ ++	270 33	270 31	270 33	270 32	270 34	280 34	290 47	300 61	290 56	290 46	280 21	280 07					
Ocean Weather Station 'I' 59°00'N 19°00'W	072300	T	060 13	+++ ++	080 11	080 12	080 07	080 06	270 06	270 35	240 31	250 31	250 27	280 19	290 09	290 02	030 06	090 05			
	080500	P	045 10	+++ ++	030 11	010 09	360 07	330 02	250 14	250 23	250 30	220 27	250 28	280 21	280 15	300 11	330 03				
	081100	T	350 10	+++ ++	360 06	010 04	000 00	+++ ++	+++ ++	+++ ++	210 27	240 28	270 25	290 19	290 15	290 05					
	081700	P	315 10	+++ ++	310 09	310 06	290 09	290 10	300 09	280 14	290 30	290 29	290 25	290 18	290 10	290 10					
Ocean Weather Station 'J' 52°30'N 20°00'W	072300	T	280 31	+++ ++	290 40	290 43	300 46	300 49	290 45	280 53	310 77	300 84	300100	300 83	310 48	300 16					
	080500	P	135 20	+++ ++	280 32	280 37	290 39	290 51	290 56	300 69	300 84	290 96	290110	300 76	290 40	290 25	290 12				
	081100	T	310 22	+++ ++	310 20	330 19	320 33	310 44	290 54	290 68	300 79	300102	300 96	290 92	300 54	300 21	300 10	300 02			
	081700	P	270 20	+++ ++	300 16	310 21	310 28	300 39	300 48	300 55	300 81	300 90	300 96	290104	290 65	300 35	300 18	120 02	080 07		
LARKHILL 03743	080630	P	200 16	+++ ++	210 45	220 44	230 39	230 40	230 43	220 57	220 67	220 74	210 75	240 40	230 29	230 13					
	081030	P	230 15	+++ ++	240 24	240 29	230 36	230 39	230 42	230 51	230 57	220 72	230 66	230 39	250 25	240 20	070 02	120 07	100 10	090 19	

## AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :—														
Inversion Levels :—														
Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :—														
Inversion Levels :—														
Isothermal Levels :—														
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			



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AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
<b>LERWICK</b> (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
<b>LARKHILL/CRAWLEY</b> † 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 <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
<b>MALTA</b> (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropo- pause		Average Press. Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
Upper		mb. °C	mb.	mb.	°C	°C	
Lower		123 -65.7	...	73	...	-73	
		193 -59.8	266	...	-46	...	
* V <sub>R</sub> = Vector average wind. V <sub>S</sub> = 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.							

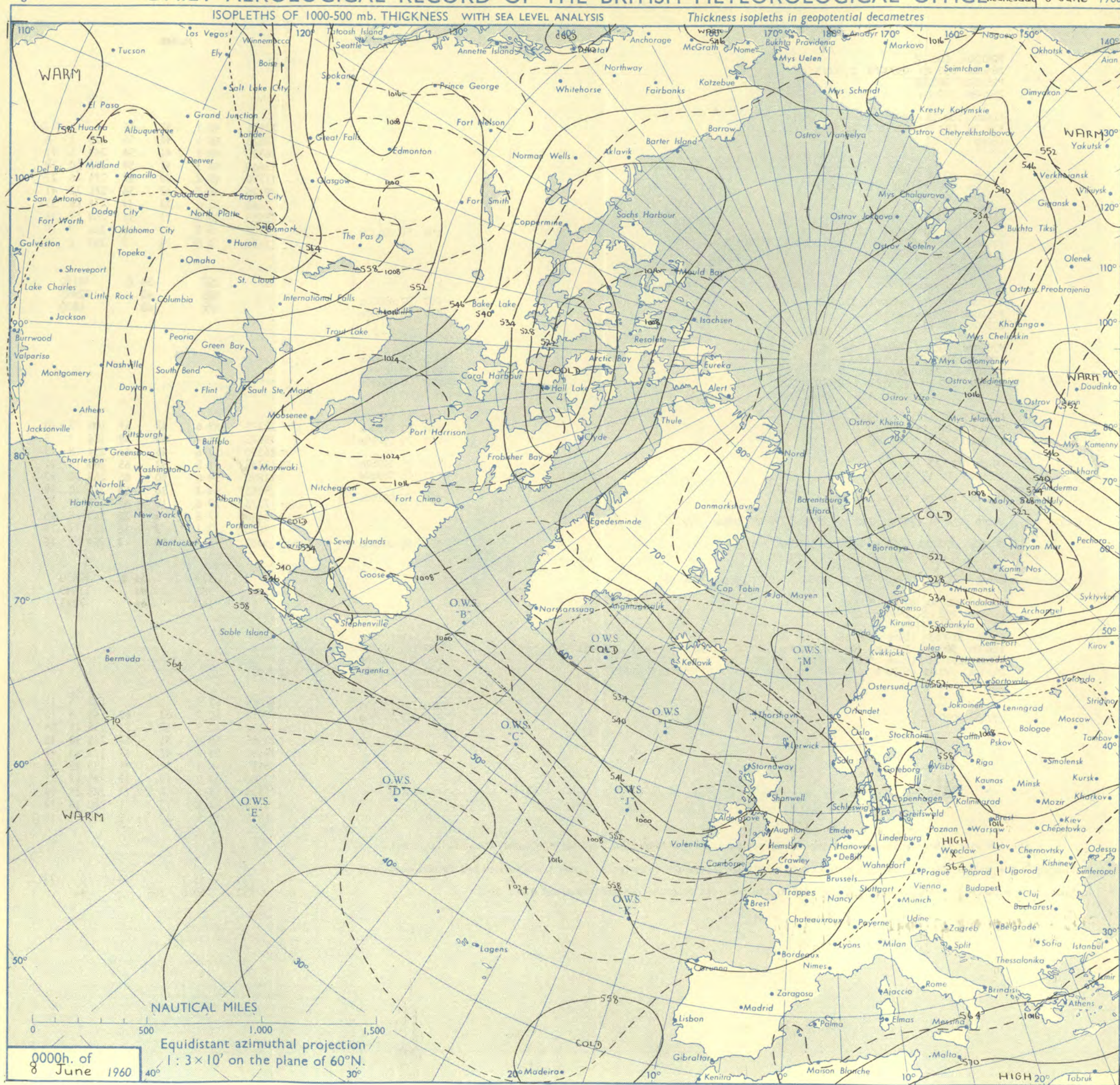
The low over Labrador is now drifting slowly southeast. The elongated low over the north Atlantic is almost stationary. The trough over the North Sea is moving slowly northeast and relaxing as a new trough which has formed west of Ireland moves eastward. The rather flat and complex low persists over the Mediterranean and Black Sea.

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

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

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

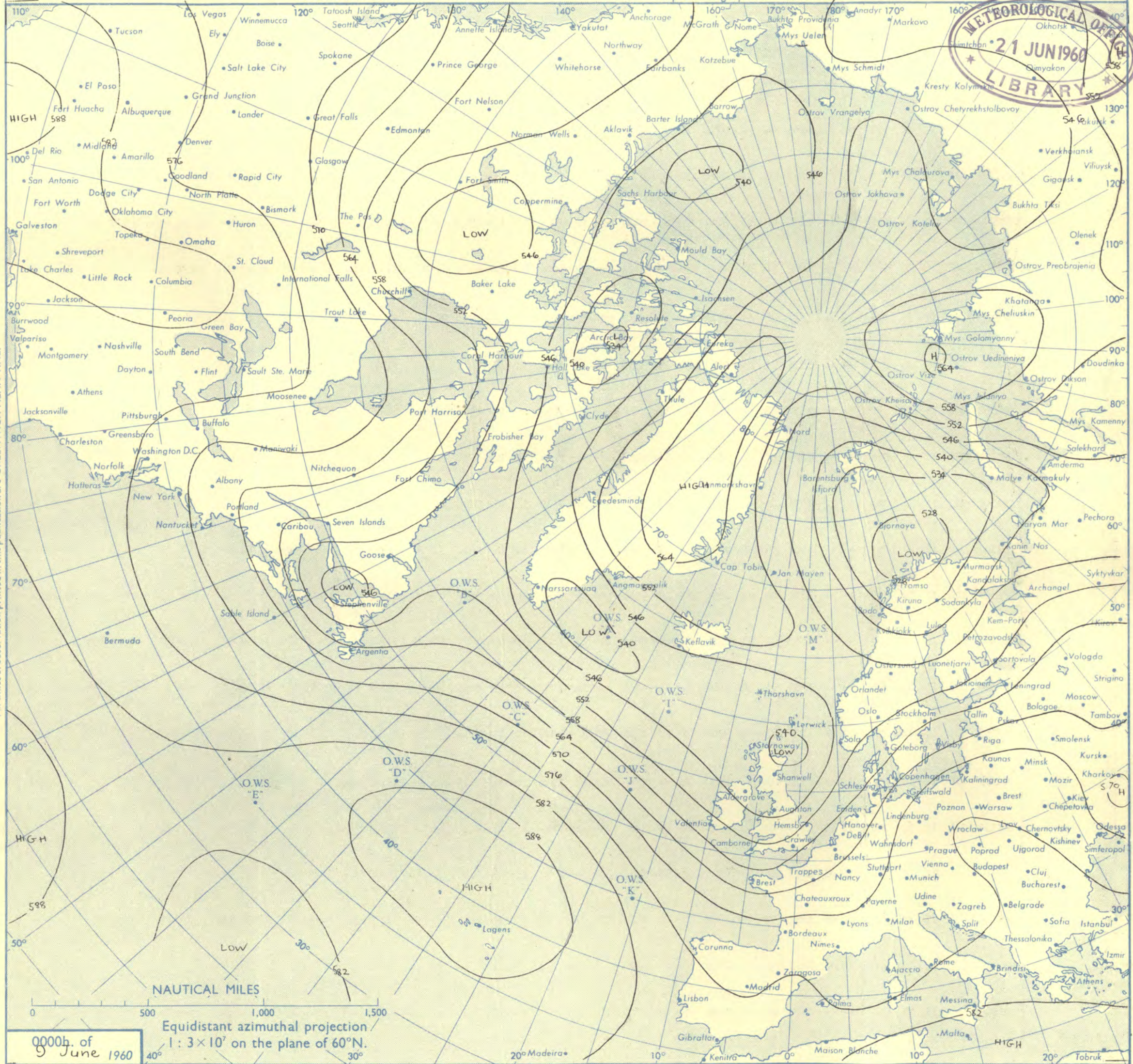






CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres





## HEIGHTS AND TEMPERATURES OF STANDARD ISOBARS SURFACE.

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	082245	082	11	11	041-	++	++	1303	04	01	2856	06-	08-	5423	21-	31-	7027	34-	41-	8982	48-	++	11689	44-	13617	46-	16294	49-						
	091100	082	12	11	066-	++	++	1275	05	03	2830	05-	08-	5391	22-	29-	6986	36-	46-	8926	44-	++	11664	43-	13599	44-	16296	47-	18654	46-	20879	47-	24261	47-
STORNOWAY 03026	082315	013	12	11	056-	++	++	1286	04	01	2842	04-	07-	5417	21-	28-	7024	34-	41-	8971	51-	++	11686	43-	13617	45-								
	091105	013	11	09	050-	++	++	1282	03	02	2828	06-	09-	5389	22-	25-	6986	35-	39-	8936	48-	++	11614	44-	13548	44-	16253	46-	18607	50-				
SHANWELL 03170	082300	005	10	09	053-	++	++	1291	04	02	2844	05-	08-	5410	22-	26-	7005	36-	40-	8944	43-	++	11681	43-	13607	45-	16288	50-	18621	49-	20827	50-		
	091100	005	15	10	064-	++	++	1280	04	00	2831	05-	09-	5397	21-	32-	7000	34-	41-	8945	50-	++	11658	42-	13590	46-	16287	48-	18630	50-	20837	50-	24202	48-
ALDERGROVE 03917	082300	077	11	10	026-	++	++	1317	04	02	2874	03-	14-	5453	21-	27-	7067	33-	38-	9022	49-	++	11737	43-	13670	44-	16376	47-	18725	49-	20947	46-	24347	45-
	091100	077	14	06	002-	++	++	1336	01	03-	2880	07-	25-	5436	22-	33-	7036	36-	42-	8988	47-	++	11689	45-	13604	46-	16278	50-	18596	52-	20781	52-	24112	50-
AUGHTON 03322	082300	056	13	10	012-	++	++	1334	04	02	2883	06-	10-	5438	22-	28-	7040	35-	42-	8984	48-	++	11680	46-	13579	49-	16216	53-	18523	52-	20711	51-	24039	49-
	091100	056	13	11	004-	++	++	1325	03	02	2889	05-	11-	5453	22-	31-	7059	33-	46-	9014	48-	++	11721	44-	13642	46-	16332	49-						
HEMSBY 03496	082300	012	13	12	021	13	12	1378	06	02	2940	04-	12-	5522	20-	31-	7135	32-	47-	9106	46-	++	11765	49-	13645	51-	16275	52-	18573	53-	20745	52-	24061	51-
	091100	012	16	11	005-	++	++	1341	04	03	2896	05-	09-	5467	20-	34-	7076	34-	46-	9030	50-	++	11709	46-	13604	49-	16254	52-	18548	54-	20719	53-	24007	55-
CRAWLEY 03774	082300	144	12	12	036	++	++	1388	06	03	2953	02-	18-	5540	20-	35-	7157	31-	48-	9137	45-	++	11817	50-	13698	50-	16329	52-	18635	53-	20822	51-	24141	50-
	091207	144	15	10	030	++	++	1380	05	03	2934	02-	08-	5511	21-	28-	7117	33-	40-	9097	44-	++	11811	44-	13729	47-	16398	49-	18723	51-	20925	49-		
CAMBORNE 03808	082300	088	13	11	044	++	++	1386	03	01	2941	03-	13-	5533	19-	36-	7151	32-	45-	9129	44-	++	11828	48-	13719	51-	16344	53-	18640	53-	20813	52-	24137	51-
	091115	088	15	11	059	++	++	1398	03	01	2947	03-	13-	5526	20-	33-	7142	32-	44-	9111	46-	++	11758	50-	13637	50-	16251	54-	18534	54-				
VALENTIA 03953	082335	014	12	10	041	12	++	1379	03	++	2930	04-	++	5520	19-	++	7140	31-	++	9110	45-	++	11790	50-										
	091130	014	15	12	054	13	10	1389	02	00	2943	04-	09-	5520	19-	39-	7140	33-	45-	9110	45-	++	11790	39-	+++++	++	16320	53-						
Ocean Weather Station 'I'  59°00'N 19°00'W	082300		11	07	046	10	08	1373	00	03-	2905	08-	23-	5430	26-	36-	7010	35-	46-	8980	44-	++	11710	44-	13630	46-								
	091100		11	07	034	11	08	1362	00	02-	2892	08-	20-	5430	23-	37-	7030	35-	47-	8980	46-	++	11700	44-	13620	47-	16290	49-	18630	50-	20050	49-		
Ocean Weather Station 'J'  52°30'N 20°00'W	082300		11	10	095	10	07	1429	04	00	2998	01-	02-	5610	17-	27-	7260	27-	39-	9280	44-	++	11920	57-	13760	55-	16350	56-						
	091100		12	11	090	++	++	1412	06	04	2978	02-	29-	5590	14-	46-	7240	25-	50-	9280	40-	50-	11930	57-	13760	54-	16360	53-	18660	51-	20050	51-		



## PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

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STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE																													TROPOPAUSE									
		MSL	Surf.	0°C level																													mb	m	°C					
LERWICK  03005	02 771++	955	985	769	773	00	04-	701	06-	08-	678	05-	12-	670	++	15-	645	++	17-	605	++	15-	550	17-	20-	540	17-	22-	534	++	26-	472	290	09200	49-					
	60 881++	992	983	774	983	12	11	965	10	08	712	04-	06-	625	++	15-	532	18-	25-	460	27-	37-	374	40-	50-	326	48-	316	45-	222	42-	100	326	08380	48-					
STORNOWAY  03026	50 663++	993	992	769	869	++	03	612	11-	15-	553	14-	20-	483	++	31-	359	40-	46-	300	51-	283	47-	228	42-	123	47-											300	08971	51-
	61 673++	994	993	801	947	07	06	888	05	03	763	03-	04-	657	08-	11-	560	16-	19-	389	37-	40-	359	40-	44-	313	47-	274	52-	192	43-			274	09520	52-				
SHANWELL  03170	02 35532	994	993	776	978	12	10	776	00	02-	729	04-	06-	722	03-	05-	671	07-	11-	650	++	12-	628	10-	16-	580	14-	17-	498	22-	26-	322	08450	48-						
	25 884++	992	992	788	980	13	09	870	05	03	852	04	00	800	++	01-	666	++	12-	639	++	18-	548	++	25-	514	19-	30-	445	29-	37-	365	40-	293	09100	52-				
ALDERGROVE  03917	02 68300	997	988	787	964	11	09	890	++	05	776	01-	04-	752	00	08-	742	++	09-	686	++	15-	595	++	15-	558	14-	20-	538	++	24-	492	287	09310	51-					
	02 68531	999	991	778	903	05	01-	843	01	02-	823	02	07-	802	++	19-	785	01	20-	732	05-	22-	690	++	26-	658	++	13-	602	++	17-	582	285	09320	49-					
AUGHTON  03322	02 4553+	999	992	797	785	01-	04-	764	01-	04-	671	09-	13-	637	++	14-	606	12-	18-	570	++	24-	547	18-	24-	497	22-	28-	366	40-	47-	317	08600	48-						
	02 853++	000	993	788	987	11	09	956	09	07	826	02	01	730	03-	06-	686	06-	13-	637	10-	15-	621	11-	17-	613	++	18-	607	10-	19-	549	292	09200	49-					
HEMSBY  03496	02 655++	003	001	765	963	13	10	928	11	09	901	++	04	860	07	01	833	++	03	800	03	02	770	++	04-	733	03-	05-	714	04-	08-	690	03-	271	09780	50-				
	02 785++	999	998	777	980	14	10	868	05	03	829	04	03	770	++	02-	658	08-	13-	618	12-	16-	607	10-	17-	603	++	18-	520	18-	31-	468	299	09060	50-					
CRAWLEY  03774	21 762++	004	987	761	952	10	08	930	11	08	900	++	05	755	++	02-	746	02-	04-	737	01-	04-	725	++	06-	719	03-	10-	710	02-	14-	705	212	11450	50-					
	25 6356+	003	987	787	937	10	08	927	++	07	910	++	05	807	01	00	715	04-	05-	700	02-	08-	692	03-	12-	630	09-	17-	601	10-	23-	548	267	09880	48-					
CAMBORNE  03808	80 5847+	005	995	792	990	++	10	852	03	02	834	03	01	772	02-	04-	748	02-	07-	740	01-	08-	732	++	10-	714	01-	11-	682	04-	13-	651	290	09370	45-					
	01 38530	007	997	801	984	12	08	908	06	04	884	++	02	815	++	00	784	01-	05-	765	01-	09-	752	++	11-	719	03-	15-	709	03-	16-	684	++	239	10580	53-				
VALENTIA  03953	02 735++	005	003	800	894	05	792	01-	738	00	684	05-	600	09-	445	26-	309	45-	277	48-	237	48-	206	51-	173	48-											277	09600	48-	
	01 38500	006	005	750	985	11	08	904	05	03	858	02	00	802	01	13-	785	00	12-	765	01	13-	675	07-	10-	661	06-	13-	592	12-	24-	487	289	09400	47-					
Ocean Weather Station 'I'  59°00'N 19°00'W	01 18500	006	006	851	960	++	05	877	01	01-	855	++	05-	837	01-	06-	818	00	05-	752	++	13-	728	++	19-	692	++	23-	599	16-	27-	556	305	08900	44-					
	02 22560	004	004	850	920	++	01	885	02	01-	834	++	04-	812	02-	07-	750	05-	18-	733	06-	19-	530	20-	35-	435	31-	44-	357	39-	49-	316	08600	47-						
Ocean Weather Station 'J'  52°30'N 20°00'W	60 3747+	011	011	722	007	11	08	923	05	03	903	++	04	888	++	01	863	04	00	856	04	01-	839	04	01	824	++	03	808	05	04	556	11-	13-	209	11600	57-			
	50 873++	009	009	748	992	09	07	845	06	04	760	++	01-	742	00	07-	722	++	33-	709	01-	30-	649	05-	26-	623	06-	25-	606	07-	37-	506	198	12000	57-					



## UPPER WINDS AT STANDARD LEVELS

9 June

1960

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	082245	T	120 10	+++ ++	150 12	150 12	150 12	150 10	130 15	130 14	110 18	090 27	160 09	170 06	230 07	310 06					
	090500	P	090 09	+++ ++	100 14	110 09	110 07	090 11	110 12	120 12	110 14	080 13	150 04	190 04	210 04	260 05	030 05	060 06	070 16	080 14	
	091100	T	060 09	+++ ++	100 15	100 14	100 17	110 14	110 12	100 11	080 11	090 07	130 05	180 07	220 07	210 03	240 01	080 02	100 14		
	091700	P	050 10	+++ ++	080 05	080 06	080 08	080 09	080 09	090 11	100 09	120 08	210 03	240 03	270 05	250 06	280 03	050 06	060 12	060 12	
STORNOWAY 03026	082315	T	360 12	+++ ++	010 15	010 14	360 09	360 10	010 10	360 14	010 20	360 23	320 07	280 09	270 10						
	090505	P	330 20	+++ ++	340 32	340 24	360 19	340 15	320 09	330 17	330 16	340 20	310 09	300 12	280 07	290 07	330 05				
	091105	T	320 30	+++ ++	340 25	350 20	010 08	320 07	320 10	330 10	320 15	320 12	320 08	290 10	280 10	290 06	260 07				
	091700	P	290 23	+++ ++	320 29	310 18	330 11	350 04	340 09	340 14	350 12	360 13	320 12	320 12	310 12	270 14	320 04	020 07			
SHANWELL 03170	082300	T	000 00	+++ ++	250 12	250 09	250 14	250 15	250 16	260 18	270 19	260 18	250 17	230 15	270 14	270 07	190 07				
	090500	P	260 06	+++ ++	290 19	280 18	270 16	270 18	260 18	280 24	290 25	280 21	270 21	260 16	260 11	280 07	320 03	050 09	080 16		
	091100	T	260 12	+++ ++	290 18	300 19	290 20	300 17	280 18	280 12	280 21	280 23	260 15	270 14	260 12	260 09	240 05	090 07			
	091700	P	270 12	+++ ++	290 33	310 34	300 19	280 17	270 14	260 12	220 11	250 13	270 19	280 15	270 13	280 10	290 05	060 02	060 17		
ALDERGROVE 03917	082300	P	280 10	+++ ++	300 16	290 17	280 19	280 16	300 18	300 25	310 22	310 22	290 27	280 20	280 16	280 10	330 06	100 05			
	090500	P	320 10	+++ ++	320 21	310 22	290 23	300 23	300 23	290 15	260 17	290 23	280 24	300 30	280 20	300 10	350 03				
	091100	T	330 16	+++ ++	310 21	310 22	300 22	300 22	280 20	280 22	270 28	290 38	290 31	300 21	290 20	310 04	300 04	000 00	090 08		
	091700	P	320 11	+++ ++	310 21	300 20	290 21	290 20	280 25	270 31	270 46	280 45	290 31	300 30	290 22	300 15	270 05	020 02			
AUGHTON 03322	082300	T	200 09	+++ ++	250 23	250 20	250 21	250 22	260 21	260 25	250 28	250 35	250 34	260 28	260 15	250 05	P230 06	100 06	070 09	090 21	
	090500	P	250 11	+++ ++	280 22	280 25	280 25	280 22	270 19	280 22	280 20	270 22	270 28	270 25	270 20	260 11	280 05	070 03			
	091100	T	300 15	+++ ++	290 18	280 20	280 24	290 24	280 24	260 21	270 23	270 19	280 22	270 22	280 18	300 09	P280 05	110 05	090 09		
	091700	P	290 07	+++ ++	300 19	280 23	270 24	280 33	260 34	270 29	270 30	280 31	270 31	280 27	280 20	280 15	280 04	050 01			
HEMSBY 03496	082300	T	210 10	+++ ++	250 19	250 19	220 30	220 34	220 27	220 47	220 54	220 63	220 63	220 60	230 39	240 25	230 14	200 03	030 03	070 15	
	090500	P	220 10	+++ ++	240 22	230 28	230 29	230 30	240 43	230 45	230 44	220 52	230 50	240 30	240 21	230 11	250 07	120 05			
	091100	T	250 14	+++ ++	250 21	250 20	250 25	250 25	250 24	250 27	250 28	220 34	230 35	230 32	240 25	250 15	200 08	270 01	090 04		
	091700	P	220 05	+++ ++	260 21	260 24	260 22	260 24	260 25	250 24	250 23	250 23	250 30	250 25	260 23	250 17	280 06	040 09			
CRAWLEY 03774	082300	T	220 10	+++ ++	250 22	250 25	240 33	240 40	230 42	240 48	230 62	230 62	240 55	240 46	250 27	240 14	260 05	130 10	110 09	P090 15	
	090500	P	210 02	+++ ++	260 25	260 25	260 28	260 24	250 27	240 40	240 44	240 42	240 45	250 34	260 22	240 12	270 09				
	091040	P	220 10	+++ ++	250 24	270 27	270 25	270 28	250 32	250 32	250 34	260 48	250 36	260 31	260 21	270 14	230 07	120 05	130 14		
	091700	P	220 10	+++ ++	270 25	280 27	280 25	260 29	270 33	270 30	270 39	270 40	260 44	270 31	270 27	260 14					
CAMBORNE 03808	082300	T	260 12	+++ ++	280 27	280 29	280 28	270 30	270 39	280 41	280 43	280 48	270 50	280 42	290 31	290 21	250 13	070 06	080 06		
	090500	P	270 17	+++ ++	290 27	290 30	290 31	290 31	290 42	290 45	290 55	300 61	300 51	290 46	290 29	280 15	290 05	020 03			
	091100	P	280 18	+++ ++	280 21	280 19	270 21	290 32	290 34	290 51	290 52	290 57	300 52	290 42	290 28	290 17	270 09	090 10			
	091700	P	260 16	+++ ++	280 23	280 26	280 29	280 29	290 42	280 46	280 42	290 45	300 59	300 49	300 35	290 19	290 09				
VALENTIA 03953	082335	T	320 18	320 19	+++ ++	300 33	+++ ++	300 37	300 40	310 46	300 53	300 07	+++ ++	300 55							
	091200	T	320 10	310 11	+++ ++	300 14	+++ ++	290 37	+++ ++	290 42	300 52	310 72	+++ ++	300 58	+++ ++	290 15					
Ocean Weather Station 'I' 59°00'N 19°00'W	082300	T	000 00	+++ ++	+++ ++	+++ ++	320 10	320 15	310 23	290 25	290 40	300 32	300 24	300 24	300 14						
	090500	P	310 10	+++ ++	340 08	320 10	290 08	290 11	310 20	300 22	310 25	320 23	290 32	300 22	300 17	300 12					
	091100	T	310 07	+++ ++	330 05	340 06	340 07	310 09	290 18	300 29	300 19	310 15	310 25	290 34	300 22	300 13	300 05	300 02			
	091700	P	315 10	+++ ++	310 15	290 10	270 12	290 13	290 13	280 29	290 30	270 40	290 45	280 33	300 15	290 12	290 05	290 02			
Ocean Weather Station 'J' 52°30'N 20°00'W	082300	T	250 15	+++ ++	270 13	270 22	290 29	290 29	280 42	280 60	290 74	290 116	300 122	300 84	310 60						
	090500	P	135 10	+++ ++	250 12	310 13	310 14	310 22	300 47	290 62	290 84	290 112	290 129	310 106	300 38						
	091100	T	000 00	+++ ++	280 12	290 19	300 24	300 37	300 49	300 63	310 94	300 133	300 123	300 90	300 51	300 21	300 15	000 00			
	091700	P	270 20	+++ ++	300 26	300 23	290 27	290 36	290 49	300 60	300 82	300 100	300 109	300 96	300 36	300 14	300 15	120 09			
LARKHILL 03743	090630	P	250 11	+++ ++	270 27	280 24	280 24	270 25	270 30	270 25	270 31	270 34	260 34	260 33	270 22	250 16	210 04	070 07	070 10		
	091030	P	260 14	+++ ++	250 24	260 26	270 27	270 28	270 33	250 33	250 46	260 30	270 32	270 21	290 15	240 03					

## 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				
091145	48.2°N 18.0°W	016	009	670	061	11 11	134	10 10	012	11 11	1487	10 01-	1990	08 05 05 01	3078	02 04-	01- 05-	4307	05- 09-	10- 12-	5718	13- 19-
Cloud :— 7/8 St. 500 to 2500 ft. 6/8 Ac. 11000 to 12000 ft. 6/8 Cs at 25000 ft.																						
Inversion Levels :— 950 to 900mb. 10°C to 11°C											Isothermal Levels :—											
YYGGgg	POSITION	PRESSURE			SURFACE		1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb					
		MSL	Surf.	0°C level	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C				
091305	45.9°N 13.2°W	015	007	670	051	14 11	122	11 11	003	09 03	1475	08 08	1975	08 08 04 04	3063	02 02	02- 06-	4292	05- 15-	09- 17-	5700	12- 25-
Cloud :— 7/8 St. 900 to 2300 ft. 7/8 Sc 3700 to 5000 ft. 7/8 Ac at 10000 ft. 4/8 Ac at 12000 ft. 5/8 Ac at 15000 ft. 3/8 Ac at 18000 ft. 7/8 Cs at 30000 ft.																						
Inversion Levels :—											Isothermal Levels :— 850 to 800mb 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				



STATION		MAX. WIND
LERWICK 03005	271mb 100 16 28800m 080 33 P24900m 060 16	
STORNOWAY 03026	131mb 300 08 060mb 290 06 21800m 090 11 09220/5	
SHANWELL 03170	170mb 240 18 053mb 090 06 25600m 070 18 031mb 100 12 24500m 080 15 01750/1 06350/5	
ALDERGROVE 03917	22800m 060 10 20000/9 20400m 060 03 06000/5 18100/2 P26300m 090 19 22800m 350 04	
AUGHTON 03322	P24900m 080 15 23100m 060 10	
HEMSBY 03496	P25500m 070 16 23100m 080 11 12560/1	220 71 08500m
CRAWLEY 03774	P27900m 080 20 26100m 110 15 07680/0 09920/1 12940/2 20530/9	230 69 08210m
CAMBORNE 03808	P24900m 060 12 05170/0 19300/8 20400m 000 00	300 64 08590m 310 66 09810m
VALENTIA 03953	894mb 300 32 738mb 310 36 237mb 310 65 904mb 290 16 765mb 290 30 592mb 290 44 289mb 310 75 165mb 300 43	310 77 10080m 310 80 09840m
Ocean Weather Station 'I' 59°00'N 19°00'W	462mb 290 31 130mb 300 10 075mb 300 09 047mb 300 02 04500m 280 18 13200m 290 25 04750/0 09600/1	
Ocean Weather Station 'J' 52°30'N 20°00'W	341mb 290 92 203mb 300 96 141mb 300 63 104mb 290 30 12300m 300 84 14200m 300 62 03950/0 09100/0 11930/1 12550/1 356mb 300 136 06120/0 12900m 300 65 22500m 120 08	290 142 09600m 290 132 10280m 300 141 08290m 300 124 11170m
LARKHILL 03743	19920/8 20120m 110 06	

## NOTES ON THE AEROLOGICAL SITUATION

A high has been built up over Greenland, together with a considerable ridge over the middle of North America. The lows, which flank these features, display no major changes since yesterday. Those which lie over the Atlantic are still flanked on the south side by a jet stream.

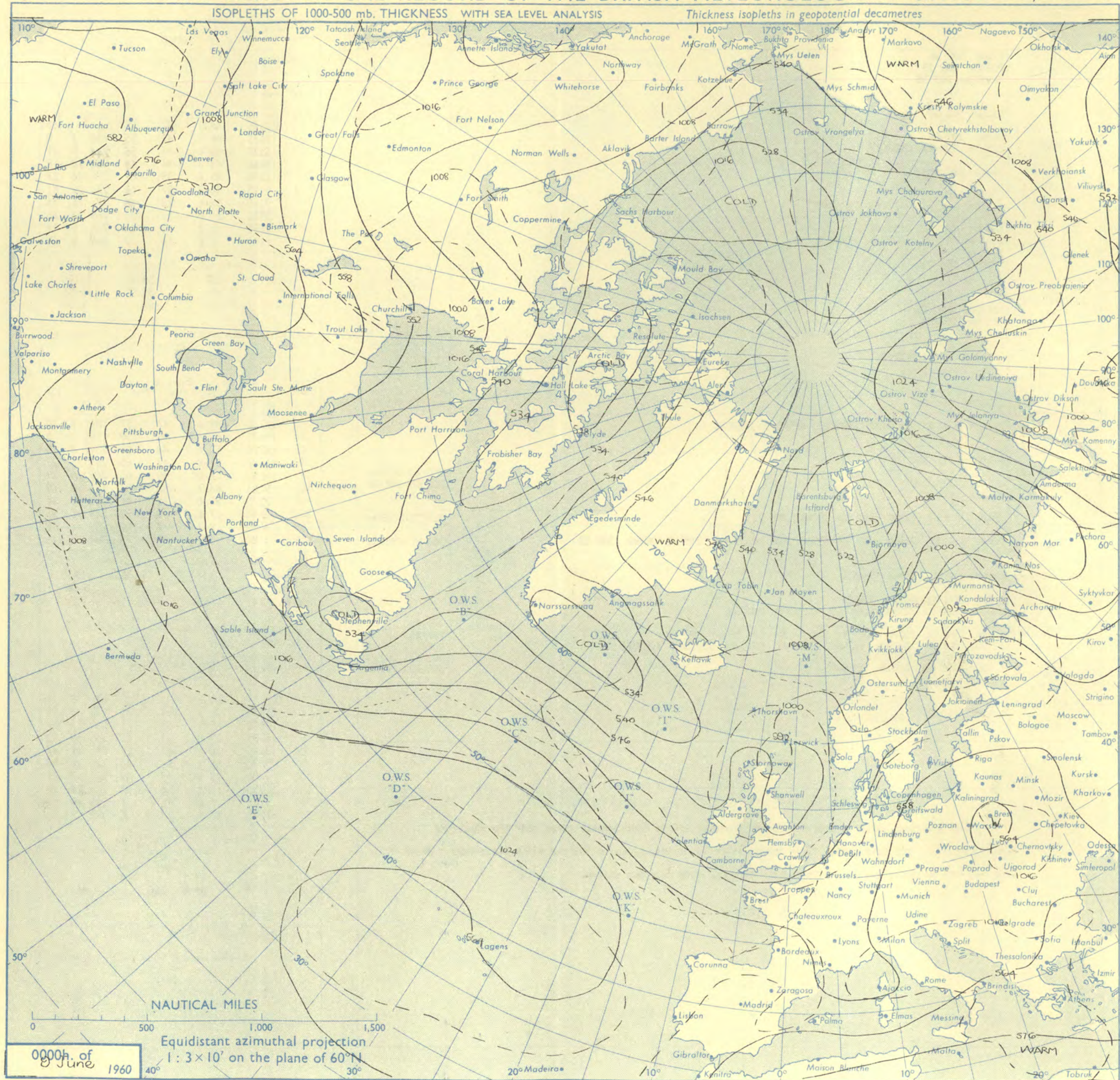
AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
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 <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropo- pause		Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		123	-65.7	...	73	...	-73
		193	-59.8	266	...	-46	...

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.



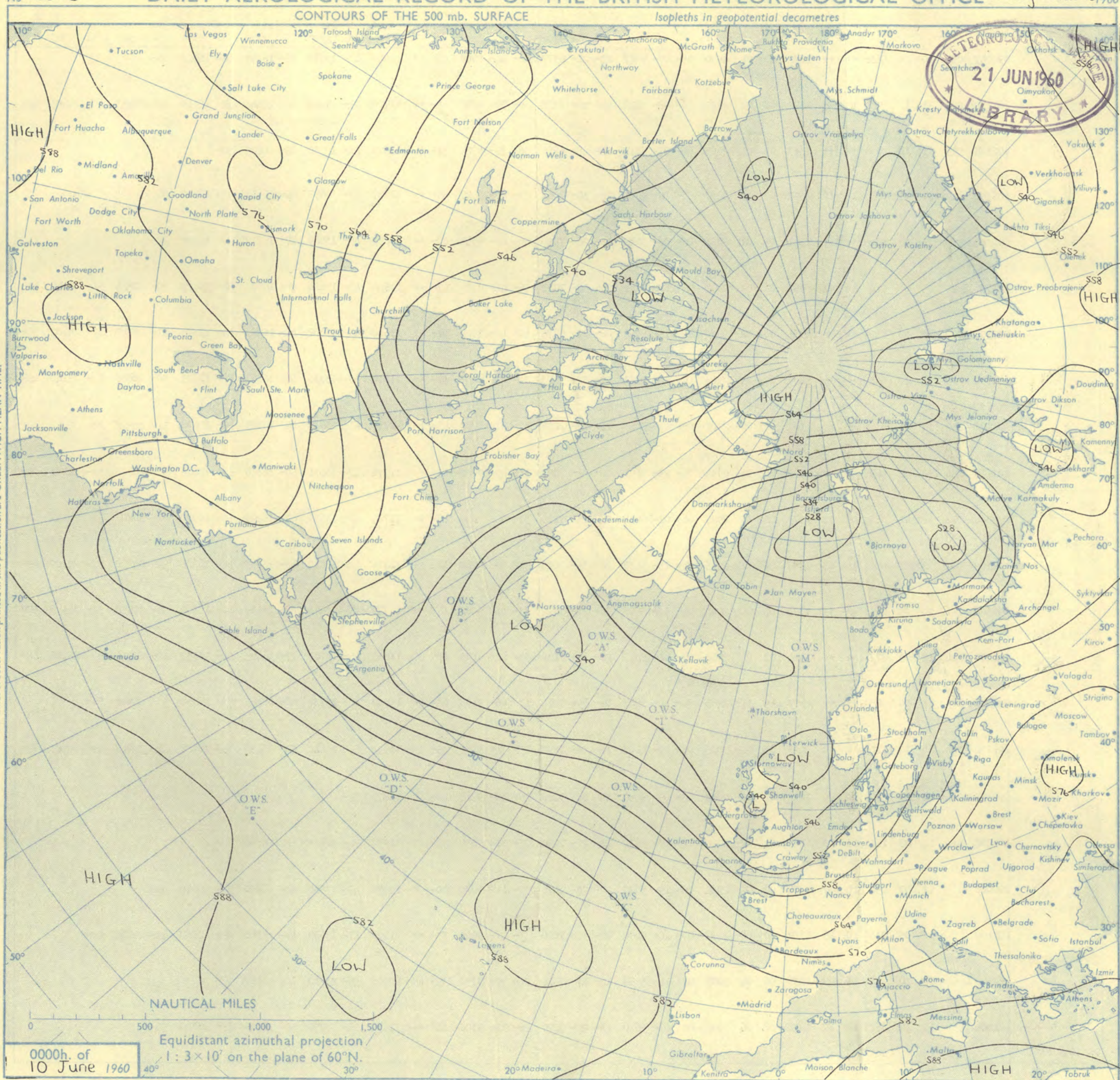




CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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









STATION	ww N <sub>H</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 5617+	993	984	788	980 ++ 08 890 ++ 05 827 02 00 785 ++ 01- 660 ++ 12- 616 11- 14- 377 40- 44- 319 49- 294 44- 184 42- 118 49- 100 48- 078 46- 055 48-	319	08500	49-
	01 49402	997	987	783	956 10 08 681 07- 09- 670 ++ 09- 619 11- 14- 426 32- 35- 372 40- 43- 321 49- 296 44- 244 42- 202 41- 182 44- 160 42- 129 47- 113 45- 100 47- 052 45- 030 40-	321	08500	49-
STORNOWAY 03026	20 373++	998	996	794	904 06 04 655 ++ 11- 589 15- 18- 544 ++ 22- 474 28- 33- 374 40- 43- 293 52- 281 47- 211 43- 096 49-	293	09060	52-
	60 473++	003	001	817	956 08 06 910 ++ 05 836 01 01- 762 ++ 04- 592 14- 18- 411 ++ 42- 344 40- 50- 310 45- 251 42- 108 44- 068 45-	310	08800	45-
SHANWELL 03170	60 8732+	998	997	811	995 ++ 06 811 00 01- 705 05- 06- 648 09- 12- 424 ++ 37- 375 40- 46- 352 44- 290 50- 241 45- 100 50- 062 52-	290	09160	50-
	02 6557+	001	001	825	954 10 05 872 03 01 822 00 02- 734 04- 07- 674 08- 14- 615 13- 18- 553 18- 24- 413 35- 43- 362 40- 49- 331 44- 299 47- 192 42- 154 47- 114 49- 105 47- 093 50- 049 51- 030 49-	299	09000	47- 154 13440 47- 093 16780 50-
ALDERGROVE 03917	02 38522	004	995	842	970 08 05 930 ++ 03 718 09- 11- 668 ++ 16- 610 ++ 20- 499 26- 31- 398 ++ 46- 391 41- 324 40- 260 40- 138 49- 062 51- 030 50-	391	07100	41-
	25 634++	008	998	830	990 ++ 07 914 06 03 840 ++ 00 769 03- 05- 759 03- 05- 729 ++ 13- 689 07- 18- 666 06- 20- 621 ++ 27- 529 18- 31- 483 24- 33- 450 ++ 36- 432 28- 39- 423 28- 40- 343 34- 49- 305 ++ 49- 264 46- 228 50- 215 46- 200 49- 146 48- 128 51- 030 49-	228	10980	50-
AUGHTON 03322	02 4453+	004	997	829	995 ++ 03 986 12 05 908 06 03 788 03- 06- 750 ++ 20- 733 ++ 20- 718 06- 16- 697 08- 13- 627 13- 19- 622 13- 19- 606 13- 32- 560 17- 30- 526 ++ 26- 490 ++ 30- 451 29- 34- 387 ++ 41- 364 40- 47- 321 46- 246 41- 154 48- 145 45- 097 51- 055 50- 050 48- 040 51-	321	08510	46- 154 13480 48-
	02 58530	008	001	843	994 11 05 938 06 03 922 05 00 850 00 04- 808 02- 07- 800 ++ 10- 777 03- 15- 757 03- 20- 692 ++ 23- 646 10- 20- 615 11- 21- 542 18- 26- 438 ++ 39- 405 32- 41- 371 38- 48- 351 40- 50- 285 44- 247 45- 151 50- 094 51- 069 53- 030 49-	285	09400	44-
HEMSBY 03496	02 784++	003	001	780	982 11 09 954 11 08 874 05 03 799 01 00 745 02- 05- 699 06- 07- 640 09- 12- 601 ++ 14- 499 23- 25- 469 25- 31- 447 ++ 34- 357 40- 48- 328 46- 274 50- 227 46- 081 52- 030 50-	274	09650	50-
	02 685++	006	005	827	000 14 05 818 02- 04- 801 ++ 05- 727 ++ 16- 644 ++ 18- 572 19- 26- 538 ++ 26- 502 ++ 34- 424 36- 45- 362 40- 50- 164 46- 094 52- 054 52- 030 49-	362	07710	40-
CRAWLEY 03774	02 6095+	006	989	810	981 11 09 952 10 07 837 ++ 01- 798 01- 02- 751 01- 09- 735 ++ 14- 716 ++ 11- 689 ++ 10- 665 ++ 15- 629 ++ 18- 600 ++ 18- 572 15- 20- 540 ++ 23- 529 ++ 28- 504 19- 31- 440 ++ 39- 378 37- 46- 293 48- 276 49- 255 46- 206 45- 100 50- 030 50-	293	09220	48-
	25 52400	009	992	801	891 06 03 858 ++ 01 688 08- 12- 683 ++ 16- 643 09- 18- 627 ++ 18- 615 09- 21- 600 ++ 28- 561 ++ 35- 475 25- 44- 343 40- 50- 329 39- 50- 106 51- 030 52-	343	08210	40-
CAMBORNE 03808	02 12600	008	997	758	984 11 07 977 11 08 950 ++ 07 904 06 01 873 06 07- 848 ++ 11- 821 03 10- 808 03 09- 740 01- 10- 632 09- 19- 547 13- 28- 335 40- 50- 310 44- 245 49- 233 49- 188 47- 123 53- 040 51-	245	10500	49-
	03 51502	014	003	751	992 13 09 935 08 06 888 ++ 00 813 ++ 02- 831 02- 05- 799 04 10- 777 02 06- 750 ++ 07- 733 02- 10- 717 ++ 12- 680 ++ 10- 670 04- 14- 658 03- 20- 503 14- 38- 460 19- 34- 444 17- 29- 427 20- 31- 389 24- 35- 296 40- 50- 243 51- 182 60- 176 57- 135 53- 082 54- 072 51- 062 53- 048 48- 041 51- 030 49-	182	12590	60-
VALENTIA 03953	03 58500	009	007	762	984 12 08 870 03 01 849 01 04- 827 02 06- 793 01 14- 762 00 10- 670 07- 13- 640 07- 17- 594 12- 26- 549 12- 30- 478 20- 42- 389 29- 48- 333 34- 48- 213 56- 202 51- 121 51- 102 54-	213	11400	56-
	01 38500	013	012	735	001 12 07 958 08 05 908 05 02 896 05 01 836 01 01- 786 03 04- 712 01- 16- 667 02- 35- 637 04- 18- 602 05- 17- 511 13- 20- 462 17- 24- 403 24- 30- 351 30- 36- 282 43- 205 57- 167 62- 155 62- 152 59- 107 56- 052 52-	167	13000	62-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 785++	006	006	850	919 04 00 834 01- 03- 812 00 04- 779 ++ 09- 732 ++ 23- 709 ++ 19- 654 ++ 24- 623 11- 22- 498 ++ 29- 435 29- 38- 305 40- 50- 242 47- 170 46- 098 50- 060 47-	242	10500	47-
	03 18505	004	004	820	948 06 04 909 ++ 01- 874 01 02- 850 ++ 06- 822 00 04- 807 ++ 04- 768 ++ 10- 747 05- 13- 679 08- 18- 648 08- 19- 508 21- 30- 472 23- 33- 366 39- 48- 327 40- 48- 251 49- 224 50- 199 47- 162 46- 097 50- 073 45- 050 48-	366	07700	39- 251 10200 49-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 854++	011	011	683	962 08 06 948 ++ 06 913 09 04 888 07 05 871 06 04 832 06 04 812 04 02 808 04 00 774 05 24- 770 ++ 47- 713 ++ 22- 698 01 08- 680 ++ 02- 607 ++ 08- 585 08- 13- 547 07- 19- 539 ++ 21- 488 ++ 16- 395 25- 31- 368 29- 34- 292 40- 46- 197 59- 175 61- 152 61- 146 59- 125 56- 112 57- 078 57-	175	12900	61-
	51 872++	007	007	713	971 10 09 922 10 09 787 05 03 713 00 01- 628 03- 08- 437 23- 28- 381 27- 32- 303 40- 46- 281 44- 181 62- 163 59- 102 53- 062 52- 053 47-	181	12600	62-



## UPPER WINDS AT STANDARD LEVELS

10 June 1960

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	092247	T	020 10	+++ ++	060 07	070 09	070 09	070 12	070 12	060 10	070 14	060 07	330 05	310 05	260 06	270 10	010 03				
	100512	P	020 07	+++ ++	050 09	050 10	040 10	040 10	030 15	030 14	030 16	030 11	320 08	330 11	250 05	250 09	000 00	080 08			
	101100	T	040 12	+++ ++	020 11	010 09	030 09	030 13	010 14	360 16	360 13	360 13	320 12	290 11	270 12	240 12	220 05	100 05	080 05		
	101700	P	020 15	+++ ++	010 12	260 14	350 06	350 09	340 12	340 14	360 21	340 25	300 21	290 18	270 21	250 16	250 05	110 06	110 06		
STORNOWAY 03026	092308	T	310 18	+++ ++	320 24	320 19	310 14	310 16	330 17	330 18	340 25	340 27	330 19	320 16	300 14	280 06					
	100515	P	310 17	+++ ++	340 19	340 17	350 16	330 15	310 14	320 15	320 26	320 40	310 30	310 26	310 16	290 15					
	101100	T	340 14	+++ ++	320 10	330 09	310 13	330 10	320 11	330 15	330 24	310 43	310 44	310 33	290 19	270 14					
	101706	P	290 10	+++ ++	290 12	270 07	260 07	220 09	260 16	270 20	290 40	300 75	280 69	280 39	270 21	280 17	250 09	240 05			
SHANWELL 03170	092300	T	270 12	+++ ++	300 34	330 19	330 06	300 06	340 10	010 05	240 02	280 03	270 13	290 16	280 16	280 08	320 06				
	100500	P	270 10	+++ ++	320 18	330 07	310 07	320 15	320 19	320 21	320 21	320 31	300 25	310 21	300 19	300 13	270 05	060 02			
	101100	T	260 10	+++ ++	290 22	300 23	300 17	300 16	300 19	310 19	300 31	300 52	310 43	310 35	280 20	270 13	210 04	040 09	110 13	P080 19	
	101700	P	270 12	+++ ++	300 17	300 13	310 13	310 13	300 18	300 21	310 40	310 97	310 91	300 53	280 21	270 17	230 16	360 07	100 09		
ALDERGROVE 03917	092300	T	310 10	+++ ++	310 19	320 22	320 25	320 25	320 28	330 28	340 28	320 35	310 34	310 40	300 24	300 16	350 02	290 07	090 07		
	100500	P	280 11	+++ ++	310 25	300 26	300 24	300 28	320 22	310 21	320 32	310 58	320 63	310 47	310 30	310 19	300 08	100 05			
	101100	T	300 15	+++ ++	310 20	320 21	300 20	300 22	300 22	310 22	310 55	320114	310112	310 58	310 25	270 16	320 03	000 00	100 06		
	101700	P	280 10	+++ ++	280 13	270 14	270 16	290 24	300 30	300 45	300 72	300 92	290100	300 62	290 33	290 21	250 10	190 04	090 07		
AUGHTON 03322	092300	T	280 05	+++ ++	310 16	300 20	290 24	290 22	270 31	260 36	240 33	260 27	290 28	290 28	290 23	250 14	110 05	030 05			
	100500	P	280 06	+++ ++	300 21	310 25	310 29	310 27	320 28	330 35	330 48	320 50	320 35	310 33	310 21	300 16	330 07				
	101125	T	300 12	+++ ++	300 23	300 24	300 23	300 23	300 21	300 29	310 31	320 78	320 83	320 54	310 35	300 11	240 07	280 05	140 05		
	101700	P	270 15	+++ ++	290 23	290 24	300 24	310 23	310 25	310 35	320 78	310100	310110	310 69	300 36	290 15	270 11	130 03			
HEMSBY 03496	092300	T	240 10	+++ ++	260 15	260 14	250 18	240 16	240 27	230 28	240 30	240 33	240 27	250 28	270 21	270 12	230 14	050 05	110 11		
	100500	P	270 07	+++ ++	300 19	280 19	280 18	280 22	250 18	240 19	210 31	230 31	260 23	270 22	270 22	270 07	320 06	230 02	060 14	090 14	
	101100	T	310 12	+++ ++	280 15	280 17	280 23	290 24	270 21	260 26	290 25	310 28	300 35	290 26	290 24	280 06	220 09	330 02	090 06	P260 09	
	101700	P	230 05	+++ ++	290 28	290 30	290 29	300 24	310 27	310 34	310 49	320 74	320 79	310 43	300 29	310 15	270 08	170 01			
CRAWLEY 03774	092300	T	230 10	+++ ++	270 21	270 22	250 28	260 31	250 31	260 31	260 33	260 37	270 33	270 30	270 27	270 15	250 12	090 05	070 09		
	100500	P	300 05	+++ ++	320 11	300 16	280 25	280 16	270 20	290 25	270 25	290 36	290 39	290 33	300 22	290 14	280 03				
	101040	P	330 05	+++ ++	290 12	290 19	300 24	310 26	300 35	320 39	320 54	320 76	320 69	310 42	290 30	300 17	260 14	310 10	060 02	060 13	
	101700	P	290 10	+++ ++	290 15	280 18	280 21	290 21	300 29	310 33	320 87	320103	320111	310 85	310 40	290 25	290 10	210 09			
CAMBORNE 03808	092300	T	290 06	+++ ++	300 14	290 15	290 27	300 33	290 40	290 54	300 64	310 91	310 93	310 66	300 44	310 15	290 10	290 03			
	100500	P	310 14	+++ ++	310 18	310 21	300 22	310 31	310 34	310 65	310100	320126	320123	310 84	310 35	310 21	300 10	140 10			
	101100	T	320 12	+++ ++	310 12	320 12	300 26	300 31	300 44	310 58	320 85	310 88	310 88	310 86	310 46	300 14	300 10	250 09	240 07	110 07	
	101700	P	270 14	+++ ++	270 16	290 20	290 26	300 32	300 43	310 48	310 51	310 66	310 67	300 64	290 40	290 28	270 11	310 03			
VALENTIA 03953	0923333	T	330 08	330 10	+++ ++	310 18	+++ ++	310 28	+++ ++	310 75	310 96	310121									
	101200	T	300 08	270 08	+++ ++	280 15	+++ ++	300 34	+++ ++	300 57	300 65	300 68	+++ ++	300 70	+++ ++	270 25					
Ocean Weather Station 'I' 59°00'N 19°00'W	092300	P	320 06	+++ ++	280 15	300 08	310 11	290 17	280 15	300 13	280 38	290 69	290 63	290 35	290 26	290 11					
	100500	P	270 20	+++ ++	270 13	250 12	260 12	260 13	260 11	270 21	280 47	280 68	270120	270 80	270 38	270 20					
	101100			No winds reported																	
	101700	P	135 10	+++ ++	170 09	180 12	190 10	180 12	220 16	240 20	230 29	200 49	230 34	240 33	230 19	260 10					
Ocean Weather Station 'J' 52°30'N 20°00'W	092300	T	240 12	+++ ++	270 18	280 27	290 37	290 41	290 51	290 57	290 69	290 85	290 93	290 90	300 54	290 20					
	100500	P	225 10	+++ ++	350 22	350 29	350 30	340 39	300 45	290 59	270 79	270 76	270 52	280 63	280 40	280 17	280 12				
	101100	T	230 18	+++ ++	250 27	260 24	250 35	250 45	260 60	260 60	270 72	260 70	260 75	250 81	260 59	250 24	250 12				
	101700	P	270 30	+++ ++	260 35	250 50	250 52	250 52	250 63	250 81	250101	250109	250107	250101	250 47	250 14					
LARKHILL 03743	100630	P	290 03	+++ ++	320 13	320 18	310 22	300 25	310 27	320 39	320 61	320 70	310 59	310 50	300 31	300 15	310 03	310 06			
	101030	P	290 07	+++ ++	300 12	310 15	310 18	300 22	300 30	310 37	310 60	320114	320102	310 54	300 31	310 16	000 00	310 06			

## 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					
101200	52.0N 24.5W	010	002	728	061	11 11	079	09 07	954	09 06	1420	07 05	1923	05 03	02 06	3002	02- 12	05- 14	4213	08- 12	12- 14	5608	15- 18
Cloud :— 6/8 St. 300 to 2500ft. 3/8 Ac. 17000 to 19000ft. 4/8 Cl. 25000ft. to TNR.																							
Inversion Levels :—											Isothermal Levels :— 957 to 900mbs. 9½°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					
101314	49.3N 19.8W	016	009	669	061	17 13	134	15 09	1024	11 08	1500	11 06	2006	09 03	05 00	3094	02 12	01- 14	4322	05- 14	09- 25	5730	14- 31
Cloud :— 7/8 Sc. 2900 to 4500ft. 3/8 Cs. 25000ft. to TNR.																							
Inversion Levels :— 863 to 850mbs. 9½ to 10½°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					



## UPPER WINDS AT ADDITIONAL LEVELS

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STATION		MAX. WIND
LERWICK 03005	060mb 010 04 22200m 090 07 09800/5 13850/5	
STORNOWAY 03026	076mb 260 11 21400m 100 04 06640/0 07630/0 08020/0 09180/0 11710/1	300 81 09300m
SHANWELL 03170	00860/1 02930/0 158mb 280 14 07950m 310 65 25900m 080 14 07950/0 08380/0 08850/0 11300/1 11800/1	300 107 09530m
ALDERGROVE 03917	22200m 100 03 09000/0 10900/1 385mb 310 75 209mb 310 74	320 70 09700m 320 120 09510m 290 103 10700m
AUGHTON 03322	042mb 060 05 330mb 320 57 23400m 170 08 05880/0 07680/0 10220/0 10710/1 11240/1 11750/1 12230/1 12810/1	320 90 09610m 310 126 10470m
HEMSBY 03496	P24900m 080 12 22200m 060 07 116mb 280 15 11000m 320 59 21800m 000 00 09500/0 10400/1 10800/1 11200/1	320 92 09730m
CRAWLEY 03774	19800m 030 05 28800m 120 23 30300m 110 23 07830/0 09600/1 11580/7 23230/9 25750/5 06000/0 06400/0 11030/1 12550/1 20090/5	320 81 09370m 320 121 09800m
CAMBORNE 03808	131mb 310 37 045mb 020 06 13300m 320 14 23100m 060 05 04900/0 05330/0 06350/0 08450/0 10900/1 11300/1 12200/1 P26100m 110 14 22800m 300 06	310 103 10200m 330 135 10650m 310 100 10810m 310 72 10530m
VALENTIA 03953	762mb 310 26 594mb 310 43 908mb 260 11 786mb 300 24 602mb 300 45 155mb 290 56	310 132 09800m 300 75 09560m
Ocean Weather Station 'I' 59°00'N 19°00'W	08100m 270 57 11100m 290 48 16800m 290 10 08000/0 08600/0 09650/0 10000/1 06000m 270 30 09300m 270 92 09300/0 12050/1 18000m 300 13 03320/3 07700/6 10000/4 14580/4	290 111 09840m 270 129 10580m
Ocean Weather Station 'J' 52°30'N 20°00'W	181mb 290 77 127mb 290 36 080mb 290 15 03300m 320 38 09900m 260 61 15000m 270 29 19800m 280 11 07650/0 09430/1 13050/1 133mb 260 40 057mb 250 04 12600m 250 75 15000m 250 37 19500m 250 08 05100/0 12500/1 12980/1	290 96 11070m 260 90 07550m 250 83 12260m 250 114 07920m
LARKHILL 03743		320 81 08890m 320 117 09390m

## NOTES ON THE AEROLOGICAL SITUATION

Noteworthy developments since yesterday are the cutting off of a vortex south of New York and also the displacement of the Greenland high by a trough from the east. The Atlantic jet stream persists and takes the form of a slowly progressive wave.

AVERAGE AND EXTREME VALUES 1951-55  
JUNE

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22345	-48.1	-42	-55	...	(11)
60	19675	-48.1	-41	-55	120 3	8
100	16320	-48.8	-41	-56	244 5	11
150	13660	-48.3	-41	-59	263 10	18
200	11770	-49.8	-39	-67	271 16	27
300	9125	-46.7	-37	-56	271 22	41
400	7160	-32.6	-23	-44	271 18	33
500	5555	-20.8	-11	-31	269 14	26
700	2985	-5.2	3	-14	266 9	19
850	1435	2.8	14	-7	269 6	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	257	-54.7	10190
Max.	405	-40	12955
Min.	172	-68	6890

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22310	-49.6	-47	-57	106 9	10
60	19675	-51.4	-45	-59	136 3	8
100	16370	-52.6	-46	-61	251 8	13
150	13745	-51.8	-42	-65	265 15	21
200	11890	-54.0	-40	-65	268 20	32
300	9265	-44.7	-36	-54	265 20	39
400	7275	-29.6	-19	-41	265 17	31
500	5640	-17.8	-9	-28	263 15	25
700	3050	-2.1	7	-10	263 11	19
850	1480	5.7	16	-3	264 7	16

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	234	-56.8	10950
Max.	388	-41	13440
Min.	160	-66	7225

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22185)	(-60.7)	...	...	120 5	11
60	19670	-60.7	-53	-69	135 4	10
100	16510	-62.9	-57	-71	255 21	24
150	13995	-59.0	-51	-67	265 38	42
200	12185	-56.6	-47	-67	275 42	47
300	9530	-40.1	-33	-46	285 32	38
400	7500	-23.9	-19	-29	285 27	31
500	5835	-11.8	-8	-17	285 24	28
700	3165	7.2	13	-1	290 18	22
850	1535	17.9	27	8	290 9	14

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	123	-65.7	...	73	...	-73
Lower	193	-59.8	266	...	-46	...

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.

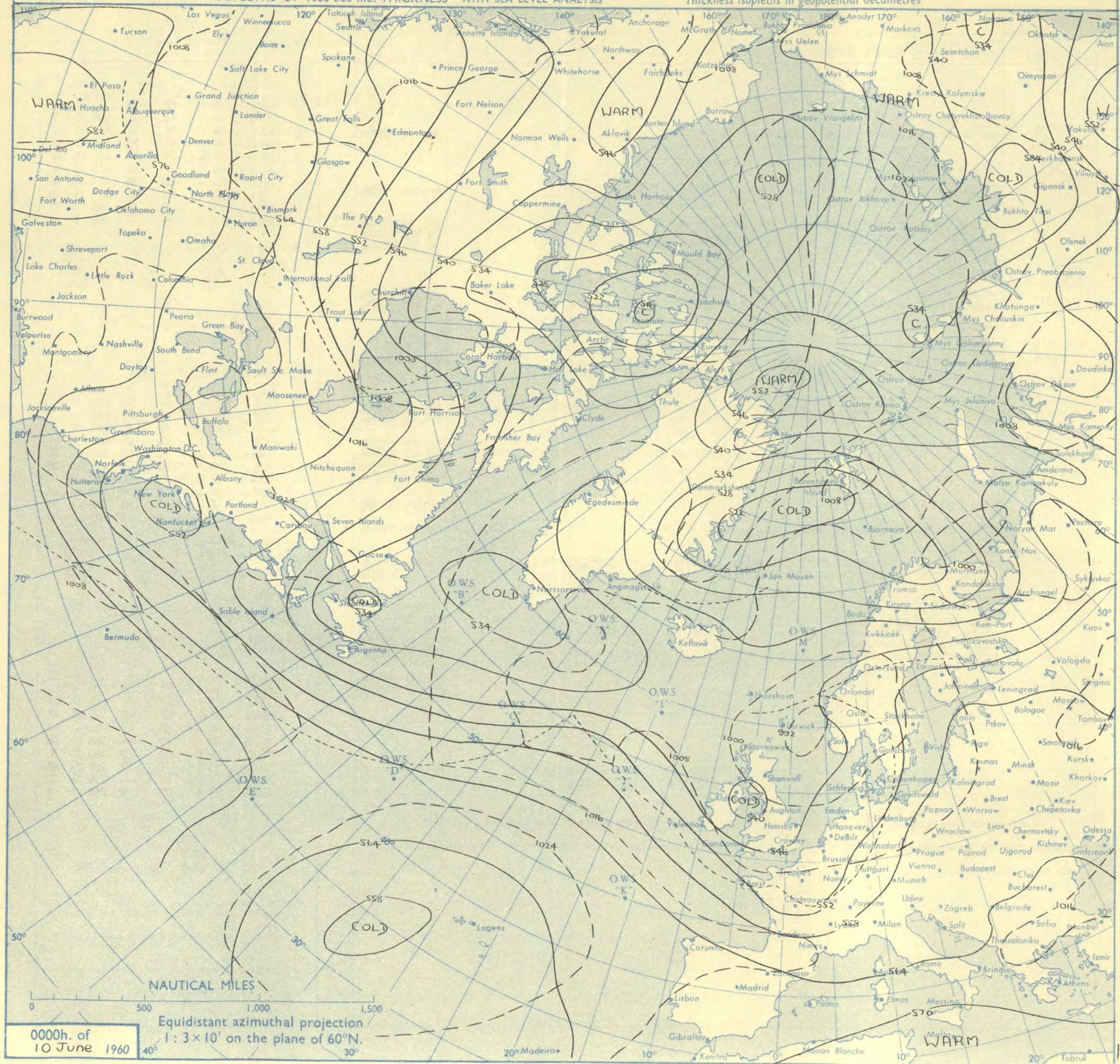
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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.



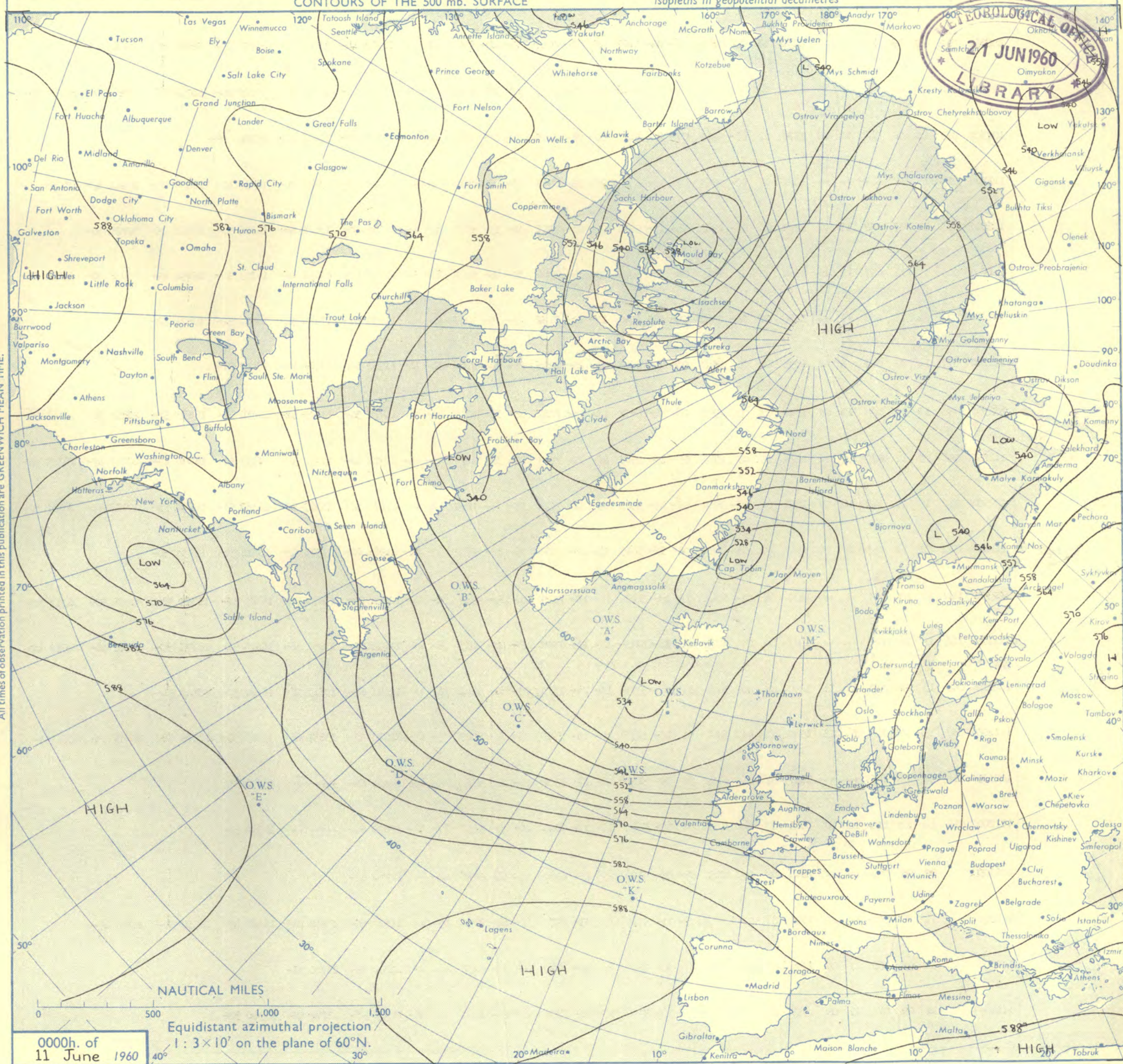
ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

Thickness isopleths in geopotential decametres





*Isopleths in geopotential decametres*



0000h. of  
11 June 1960

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

40° 30°



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	102352	082	10	09	030	++	++	1362	03	03	2908	06	09	5467	22	31	7069	35	42	9017	49	++	11703	44	13629	45	16318	47	18680	46	20915	47		
	111100	082	13	09	018	++	++	1354	02	01	2897	06	10	5446	22	27	7056	32	37	9019	49	++	11711	42	13646	45	16349	46	18714	46	20952	46	24373	43
STORNOWAY 03026	102300	013	10	08	046	10	08	1376	01	03	2911	07	20	5477	20	26	7095	30	33	9072	47	++	11718	45	13638	47	16308	49						
	111100	013	13	07	007	++	++	1328	01	02	2863	07	13	5392	26	35	6969	37	46	8937	39	++	11706	42	13641	45	16337	47	18688	48	20911	47	24291	46
SHANWELL 03170	102300	005	11	07	059	11	07	1399	03	01	2945	05	15	5521	21	28	7147	31	35	9123	46	++	11768	46	13671	48	16326	50	18663	49	20874	48		
	111100	005	15	12	017	15	13	1364	05	01	2915	06	14	5476	20	34	7084	33	46	9061	43	++	11753	47	13653	48	16323	50	18654	49	20859	50	24206	50
ALDERGROVE 03917	102300	077	12	10	060	++	++	1396	02	01	2945	04	08	5548	17	23	7192	27	35	9207	42	++	11832	57	13684	51	16317	52	18621	52				
	111140	077	14	07	022	++	++	1395	02	00	2943	03	22	5547	14	25	7205	25	34	9246	38	48	11902	54	13786	48	16447	51						
AUGHTON 03322	102300	056	13	09	094	13	09	1440	03	00	2994	01	14	5602	15	18	7247	28	33	9252	43	++	11872	56	13719	52	16334	53	18633	52	20818	51	24141	50
	111100	056	15	12	075	15	12	1424	05	03	2983	05	13	5581	16	19	7235	25	31	9270	39	46	11914	62	13752	54	16393	52	18704	49	20917	47	24329	45
HEMSBY 03496	102300	012	10	07	108	14	07	1451	02	02	3000	03	15	5585	19	31	7219	28	33	9229	42	++	11874	56	13727	52	16347	53	18641	53	20813	52	24132	50
	111100	012	15	13	093	14	11	1447	09	03	3016	02	32	5619	15	19	7278	25	31	9312	40	46	11944	62	13785	51	16416	51	18734	50				
CRAWLEY 03774	102300	144	10	07	130	++	++	1477	04	01	3042	02	13	5664	13	18	7329	24	29	9369	38	43	12040	55	13874	54	16485	52	18789	54	20974	50	24311	50
	111100	144	15	14	125	++	++	1487	09	07	3075	01	11	5719	12	16	7392	23	28	9435	38	43	12093	61	13885	56	16475	54	18774	53	20963	50	24319	49
CAMBORNE 03808	102312	088	13	12	137	13	11	1490	08	06	3070	01	02	5712	13	24	7373	25	31	9402	41	++	12023	61	13813	58	16372	57	18644	54				
	111100	088	15	14	140	14	13	1500	11	01	3087	01	05	5717	14	25	7385	23	32	9425	39	45	12078	62	13839	61	16385	59	18639	58	20785	54	24058	55
VALENTIA 03953	102335	014	14	13	096	++	++	1457	07	05	3039	00	09	5680	14	17	7330	26	29	9360	40	43	12000	61	++++	++	16370	55						
	111200	014	14	12	110	12	10	1446	03	02	3011	00	02	5640	14	19	7310	24	29	9350	37	43	12020	60	++++	++	16380	55						
Ocean Weather Station 'I' 59°00'N 19°00'W	102300		09	08	044	++	++	1284	00	00	2823	08	09	5360	25	28	6930	40	44	8850	44	++	11590	43										
	111300		11	08	004	++	++	1326	01	02	2859	09	11	5390	25	31	6970	38	44	8890	45	++	11600	44	13530	46	16210	49	18550	50	20750	49		
Ocean Weather Station 'J' 52°30'N 20°00'W	102300		12	09	068	11	07	1399	03	01	2959	03	20	5550	16	20	7210	26	33	9230	42	++	11850	55	13700	51								
	111100		11	09	071	11	09	1399	01	04	2946	07	12	5550	15	18	7200	26	29	9230	38	42	11900	58	13740	53	16360	52						



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	51 362++	004	994	802	829 ++ 01 801 ++ 01- 779 02- 03- 753 02- 03- 514 20- 29- 363 40- 46- 305 49- 282 50- 210 44- 100- 47- 031	282	09450	50-
	02 7847+	002	992	805	986 11 08 926 06 04 838 02 01- 793 ++ 04- 755 03- 06- 720 ++ 10- 663 10- 13- 618 12- 19- 570 17- 24- 494 22- 27- 392 33- 38- 347 40- 46- 285 52- 273 53- 271 51- 254 47- 215 41- 155 45- 100 46- 030 43-	273	09630	53-
STORNOWAY 03026	02 28536	006	004	834	993 10 08 896 ++ 01- 834 00 04- 818 00 09- 810 ++ 13- 754 04- 19- 706 ++ 23- 681 ++ 14- 622 ++ 31- 529 17- 36- 489 22- 25- 387 32- 35- 339 40- 43- 264 55- 202 45- 111 48- 086 50-	264	09900	55-
	80 785++	999	998	826	916 05 01 808 01- 03- 732 ++ 08- 708 ++ 12- 648 11- 20- 515 25- 34- 398 37- 46- 341 41- 277 38- 153 45- 143 44- 132 47- 089 49- 049 47- 045 49- 042 47- 030 46-	341	08060	41-
SHANWELL 03170	03 3554+	007	006	799	989 12 06 968 ++ 04 843 02 02- 832 ++ 01- 798 ++ 07- 775 ++ 07- 720 05- 15- 710 ++ 16- 695 ++ 14- 672 06- 22- 642 ++ 22- 548 15- 34- 500 21- 29- 486 20- 25- 451 24- 27- 339 40- 44- 300 46- 277 54- 228 54- 217 52- 213 48- 205 46- 104 50- 049 48-	237	10670	54-
	25 685++	002	001	781	980 12 09 952 ++ 09 803 02 02- 721 05- 09- 665 08- 20- 635 ++ 21- 602 13- 25- 533 17- 31- 380 36- 49- 335 40- 50- 303 42- 282 46- 182 46- 162 49- 142 47- 091 49- 082 51- 064 49- 030 50-	282	09470	46-
ALDERGROVE 03917	61 464++	007	998	817	974 10 06 940 ++ 05 803 01- 04- 750 01- 05- 656 05- 10- 628 05- 10- 346 34- 43- 310 ++ 50- 236 55- 212 62- 199 57- 166 51- 070 52-	212	11420	62-
	25 685+2	006	997	810	935 08 04 880 ++ 02 853 02 00 789 01- 04- 748 ++ 15- 728 01- 17- 647 05- 28- 571 12- 37- 550 11- 35- 474 16- 24- 389 27- 35- 350 29- 38- 292 ++ 50- 233 54- 210 57- 181 49- 135 47- 100 51-	210	11600	57-
AUGHTON 03322	02 855++	011	005	800 752 718	999 13 09 946 ++ 05 870 ++ 02 825 02 03- 793 01- 03- 778 01 07- 773 ++ 08- 750 00 09- 735 01- 15- 718 00 15- 639 ++ 17- 631 09- 15- 624 08- 13- 611 ++ 10- 599 07- 10- 560 09- 12- 317 40- 46- 209 61- 195 54- 109 52- 088 54- 030 50-	209	11590	61-
	03 4857+	009	002	754	985 13 11 797 01 01- 790 ++ 01- 770 01 17- 736 ++ 22- 718 03- 17- 690 05- 09- 659 07- 08- 583 10- 11- 568 10- 12- 539 12- 16- 506 15- 18- 445 20- 26- 398 25- 31- 294 40- 47- 195 63- 186 55- 172 53- 163 56- 124 48- 093 55- 082 50- 072 52- 071 50- 052 48- 044 44- 030 45-	195	12070	63-
HEMSBY 03496	02 10940	013	011	818 785	005 14 07 815 00 03- 810 00 03- 785 00 07- 761 01- 13- 679 04- 17- 554 14- 24- 494 20- 32- 478 20- 33- 444 24- 34- 433 24- 32- 393 ++ 34- 312 40- 46- 257 51- 245 52- 230 52- 215 55- 200 56- 163 52- 117 52- 104 54- 030 50-	200	11870	56-
	21 864++	011	010	734	934 09 07 909 11 05 883 11 01 838 ++ 04- 773 03 04- 700 02- 32- 628 09- 19- 606 08- 12- 580 ++ 12- 433 20- 26- 300 40- 46- 201 62- 190 57- 159 51- 051 49-	201	11900	62-
CRAWLEY 03774	02 24500	016	998	728	992 13 08 988 ++ 06 894 08 03 873 ++ 00 860 ++ 01 832 03 03- 815 03 06- 807 ++ 08- 767 ++ 07- 659 04- 18- 635 04- 22- 574 07- 30- 553 ++ 29- 519 13- 18- 505 12- 17- 421 22- 28- 319 35- 40- 290 ++ 45- 253 48- 213 55- 178 57- 133 52- 123 54- 100 52- 068 54- 054 50- 030 50- Pressure suspect above 060mb	178	12770	57-
	02 854++	015	998	686	983 13 12 883 09 07 873 10 08 857 ++ 05 816 07 02 791 06 02- 764 05 00 734 ++ 07- 722 ++ 13- 672 01- 09- 667 ++ 09- 651 01- 07- 613 ++ 08- 597 ++ 10- 584 06- 11- 510 11- 16- 449 17- 22- 350 ++ 34- 290 ++ 46- 178 66- 167 58- 101 54- 041 48- 030 49-	178	12800	66-
CAMBORNE 03808	02 4857+	016	006	677	906 08 06 839 08 06 791 04 01 736 03 02- 688 ++ 02- 673 ++ 10- 634 02- 14- 616 ++ 15- 583 ++ 19- 560 ++ 17- 541 09- 22- 357 ++ 36- 344 33- 39- 306 40- 47- 252 52- 203 62- 159 62- 152 58- 060 53-	203	11950	62-
	50 863++	017	006	682	990 13 11 928 11 09 851 11 01 769 04 02- 647 02- 09- 586 07- 12- 535 ++ 16- 505 13- 24- 472 16- 28- 458 17- 25- 452 ++ 28- 445 ++ 25- 410 22- 31- 369 28- 35- 291 40- 46- 251 48- 189 65- 174 66- 126 58- 100 59- 054 54- 030 55-	174	12930	66-
VALENTIA 03953	50 864++	011	010	700	744 02 01 634 04- 12- 616 04- 10- 445 20- 24- 306 39- 42- 222 57- 188 64- 169 59- 099 55- 070 57-	188	12400	64-
	80 784++	013	011	700	998 12 10 895 04 03 807 02 01 790 02 01 720 01 02- 499 14- 19- 369 28- 33- 361 28- 33- 289 39- 45- 195 61- 187 60- 170 64- 135 56- 097 55- 067 55- 062 52-	170	11300	64-
Ocean Weather Station 'I' 59°00'N 19°00'W	61 3252+	995	995	855	981 09 08 855 00 00 735 06- 06- 666 10- 11- 527 22- 25- 398 40- 44- 350 48- 319 48- 297 43- 185 43-	350	07800	48-
	02 3857+	999	999	845	926 05 00 774 04- 05- 756 04- 06- 700 09- 11- 644 14- 17- 626 14- 20- 612 ++ 23- 571 18- 24- 453 ++ 38- 389 40- 46- 324 49- 303 45- 285 47- 209 43- 134 48- 117 46- 093 51- 054 49- 040 51-	324	08400	49-
Ocean Weather Station 'J' 52°30'N 20°00'W	03 785++	008	008	750	997 11 07 862 01 00 837 04 02- 810 ++ 11- 617 ++ 26- 555 13- 18- 511 15- 18- 499 16- 20- 481 16- 21- 468 ++ 23- 310 40- 46- 219 60- 206 55- 190 55- 171 52- 165 53- 150 51-	219	11300	60-
	02 5562+	009	009	772	946 ++ 04 914 ++ 02 867 01 00 840 02 06- 777 00 12- 743 02- 11- 699 07- 12- 665 07- 09- 641 07- 09- 530 12- 15- 381 28- 32- 285 40- 44- 243 49- 201 58- 180 57- 159 52- 144 53- 080 50-	201	11900	58-



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					
111223	52.0N 24.5W	008	000	870	061	08 08	064	04 04	927	02 02	1384	01- 01-	1868	03- 03-	05- 05-	2920	06- 06-	09- 09-	4118	10- 10-	13- 13-	5405	17- 17-
Cloud :— 4/8 St. 1200 to 2000 ft. 8/8 As. 4400ft. 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					
111355	49.3N 19.8W	005	999	700	061	14 13	049	12 12	933	13 07	1408	08 08	1905	05 04	03 07-	2987	00 00	03- 03-	4209	07- ++	10- ++	5614	12- ++
Cloud :— 8/8 St. 1200 to 2700 ft. 3/8 As. 17000 to 18000 ft. 6/8 Cs. 22000 ft to TNG																							
Inversion Levels :— 950 to 900mb. 11½°C to 12¼°C											Isothermal Levels :—												
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For special arrangements for supply to schools and colleges see Form 2452.																		Meteorological Office, Air Ministry, Kingsway, London, W.C.2					



STATION		MAX. WIND
LERWICK 03005	P25500m 090 12 20100m 220 03 06810/3 20400m 110 05 09100/2	
STORNOWAY 03026	092mb 250 10 17200m 250 15 336mb 200 30 06020/0 14000/1	270 73 08300m
SHANWELL 03170	451mb 280 46 223mb 280 75 P23100m 100 09 03530m 260 32 12990m 270 35 19300m 240 06 08750/0 357mb 260 91 235mb 270 82 P27240m 090 20 04950/0 05450/0 05900/0 10070/1 10790/1 11800/1	280 101 10440m 270 78 09950m 270 123 09040m 280 144 09070m
ALDERGROVE 03917	06300m 270 63 15400m 280 30 04820m 270 76 02630/0 04250/0 04600/0 13800m 270 79 04450/0 05720/0 08370/0 08920/1 09520/1 11700/1 13640/1	270 126 10800m 280 141 10200m 270 102 07600m 270 135 08700m
AUGHTON 03322	176mb 280 51 P26100m 100 12 06640/0 11500/1 12200/1 12870/1 P27600m 090 10 20400m 290 05 03610/0 12310/1 13340/1 15060/1	290 111 11300m 290 117 11110m 280 110 10170m 280 99 12000m
HEMSBY 03496	P25600m 100 10 13130m 290 55 02980/3 12540/1 179mb 290 59 P25650m 120 07 0350m 280 43 13100m 290 63 03300/0 03650/0 12300/1 12820/1 13400/1	310 115 10410m 300 112 11970m 290 97 10250m 290 98 12000m
CRAWLEY 03774	190mb 300 57 13080/1 15300m 250 33 28100m 090 18 15080m 280 36 19200m 250 07	310 105 11620m 300 89 11850m 290 78 11140m 290 70 13340m
CAMBORNE 03808	121mb 280 31 066mb 260 06 23400m 020 07 13000/1 13800/1 P24600m 090 05 24300m 060 04	290 68 11780m 290 70 12190m 280 65 12890m
VALENTIA 03953	744mb 280 34 616mb 270 59 188mb 270 85 895mb 260 27 361mb 260 84 170mb 260 88	270 92 11850m 270 90 09940m
Ocean Weather Station 'I' 59°00'N 19°00'W	344mb 150 15 279mb 290 18 192mb 250 33 09900m 280 12 08750/8 09800/0 10900/0 13120/1 08920/0 15400/1 04500/6 13600/1	
Ocean Weather Station 'J' 52°30'N 20°00'W	536mb 250 81 210mb 260 105 172mb 260 60 157mb 260 40 06300m 260 97 11100m 260 77 17400m 260 06 04430/0 10700/1 176mb 250 77 123mb 250 42 085mb 250 12 12600m 230 103 12900m 230 77 21900m 230 02/ 03890/0 07350/0 12400/1 12730/1	260 131 10310m 260 135 09830m 250 126 11900m 220 138 12130m
LARKHILL 03743		

## NOTES ON THE AEROLOGICAL SITUATION

The low over the Hudson Strait and the low south of New York are both moving east. Minor waves in the strong westerlies over the Atlantic are continuing to progress east. The trough east of the British Isles is moving east but otherwise there has been little change of note over Europe.

AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
<b>LERWICK</b> (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
<b>LARKHILL/CRAWLEY†</b> 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 <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
<b>MALTA</b> (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropo- pause		Average Press.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
		mb.	mb.	mb.	°C	°C	
Upper		123	-65.7	...	73	...	-73
Lower		193	-59.8	266	...	-46	...

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.

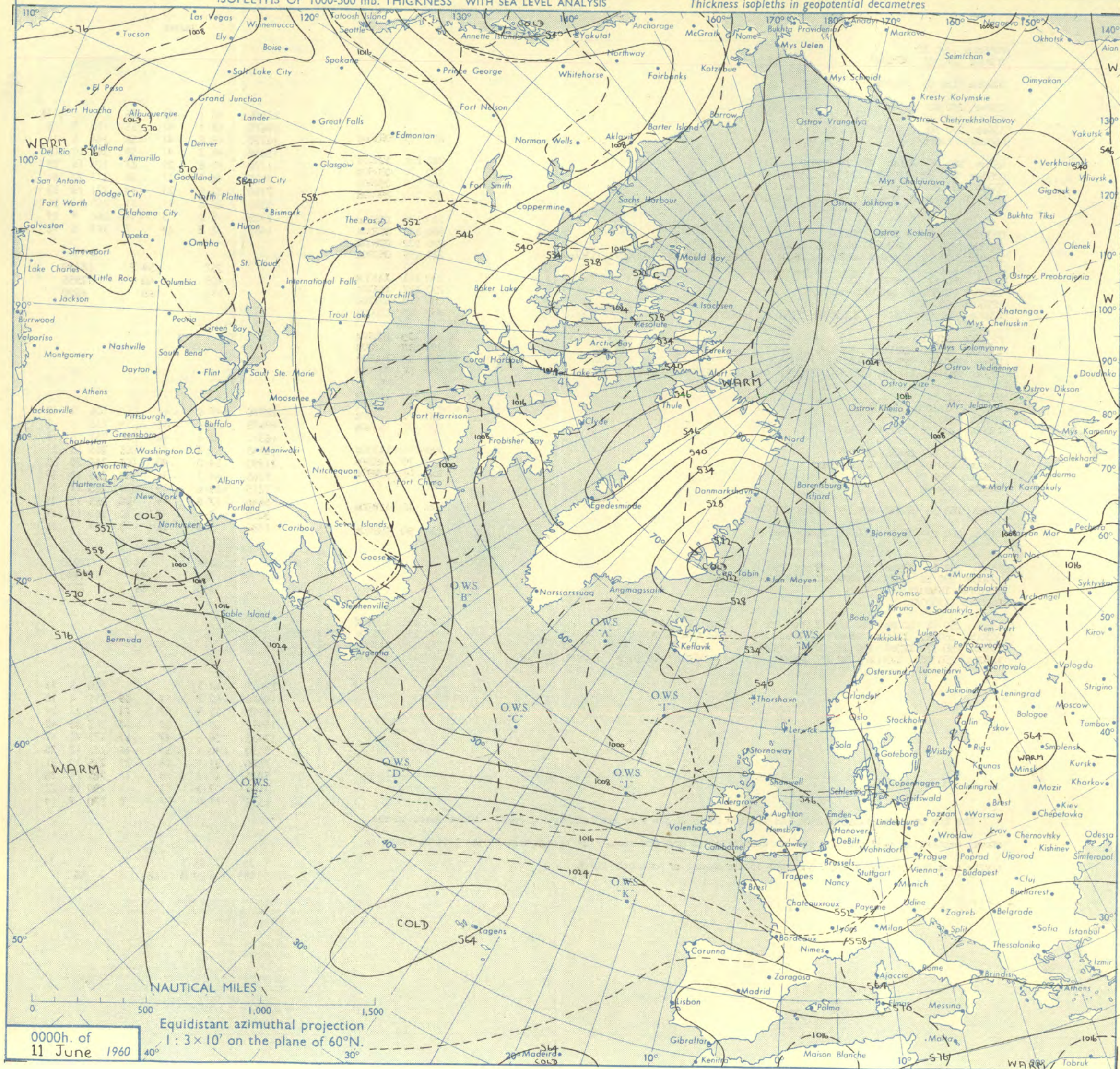
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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

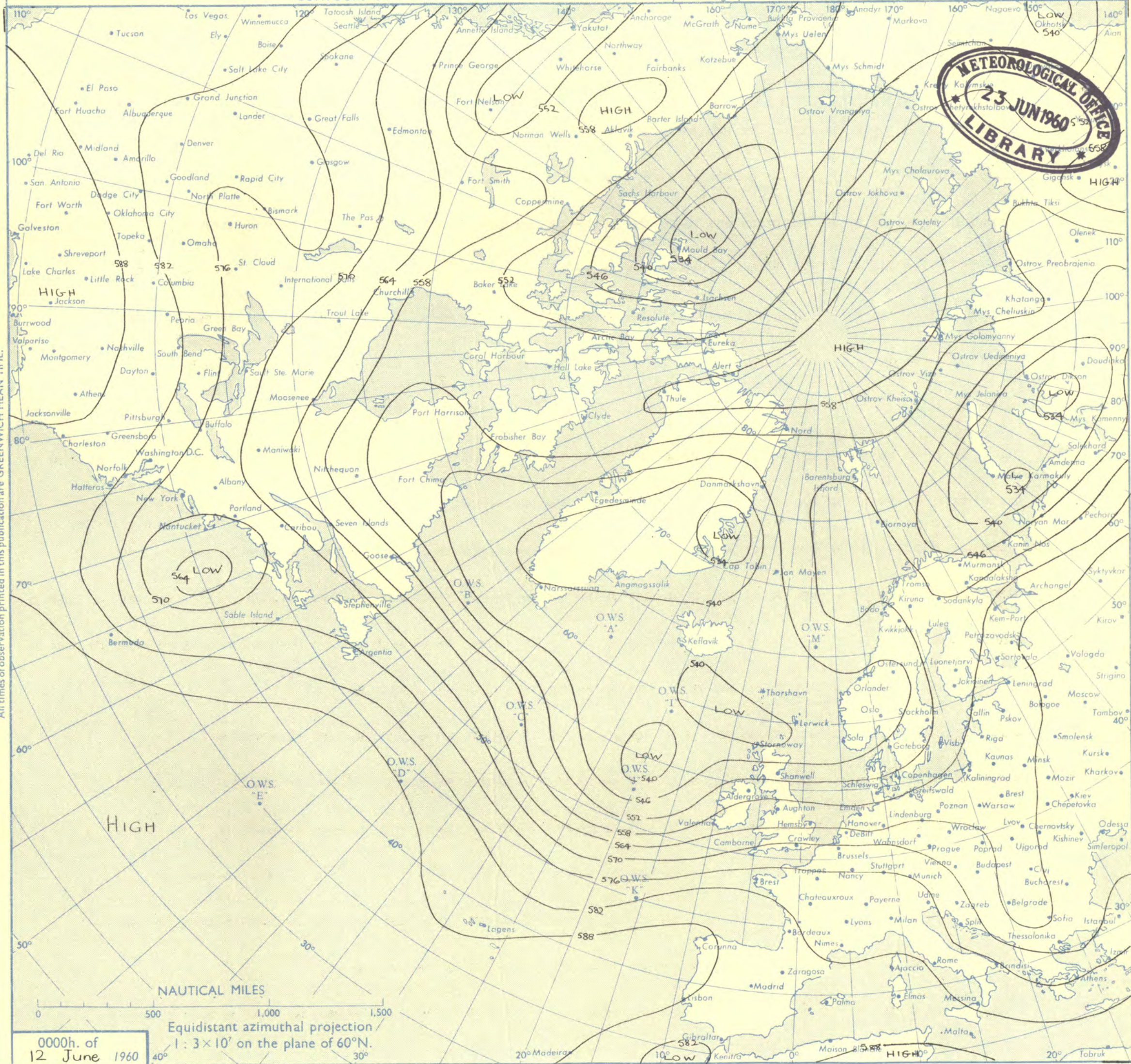




CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



NAUTICAL MILES

0000h. of  
12 June 1960Equidistant azimuthal projection  
1:3 x 10<sup>7</sup> 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	112248	082	09	09	003	++	++	1336	02	01	2879	07-	09-	5414	25-	28-	6993	37-	42-	8943	42-	++	11675	44-	13595	46-														
	121100	082	13	10	018-	++	++	1317	01	01-	2846	07-	17-	5393	21-	31-	7007	33-	42-	8968	47-	++	11643	46-	13549	46-	16238	49-	18584	48-	20789	50-	24118	50-						
STORNOWAY 03026	112300	013	11	09	015	11	09	1345	01	00	2881	08-	10-	5413	23-	40-	7033	29-	41-	9043	40-	49-	11748	48-	13640	48-														
	121103	013	12	09	048-	++	++	1288	02	01	2831	06-	15-	5393	20-	22-	7008	33-	36-	8970	48-	++	11677	42-	13621	43-	16338	45-	18714	47-	20960	44-	24415	40-						
SHANWELL 03170	112300	005	09	06	042	10	05	1379	02	02-	2930	04-	19-	5505	18-	27-	7155	26-	31-	9185	39-	43-	11876	54-	13737	50-	16385	51-	18717	49-	20921	48-	24273	48-						
	121157	005	14	09	074-	++	++	1270	03	01	2822	03-	15-	5410	19-	38-	7030	32-	50-	9000	45-	++	11700	45-	13617	46-	16309	50-	18650	49-	20862	49-	24211	51-						
ALDERGROVE 03917	112300	077	11	08	055	++	++	1391	02	01-	2942	04-	06-	5545	15-	19-	7197	27-	33-	9219	39-	43-	11895	56-	13736	53-	16351	51-	18660	52-	20850	50-								
	121113	077	10	08	092-	++	++	1240	01	00	2789	05-	07-	5356	21-	31-	6961	34-	42-	8935	40-	++	11683	42-	13620	44-	16281	50-	18616	48-										
AUGHTON 03322	112300	056	13	11	085	13	10	1431	04	02	2998	01-	07-	5624	15-	18-	7280	25-	30-	9319	39-	45-	11980	59-	13765	56-	16369	55-	18673	52-	20855	50-	24188	50-						
	121100	056	16	08	011	++	++	1358	03	00	2907	03-	19-	5499	18-	26-	7124	30-	37-	9114	45-	++	11798	48-	13697	49-	16337	49-	18667	50-	20873	48-	24230	48-						
HEMSBY 03496	112300	012	15	12	100	15	12	1449	05	02	3013	01-	05-	5628	16-	18-	7282	24-	28-	9326	38-	41-	11987	60-	13763	60-	16326	56-	18602	55-	20760	54-								
	121100	012	19	13	070	18	12	1434	08	03	3025	01	08-	5654	14-	31-	7304	26-	32-	9329	39-	45-	12005	56-	13842	56-	16440	54-	18735	53-	20915	52-								
CRAWLEY 03774	112300	144	13	12	133	++	++	1490	10	05	3081	02	05-	5719	14-	19-	7379	24-	35-	9427	37-	48-	12112	57-	13901	64-	16447	56-	18710	55-	20866	52-	24167	51-						
	121100	144	17	13	097	++	++	1453	09	03	3049	01	06-	5680	13-	42-	7335	26-	39-	9362	40-	50-	12027	57-	13850	54-	16459	51-	18785	50-	21001	48-	24380	46-						
CAMBORNE 03808	112300	088	14	14	142	14	13	1498	10	06	3091	01	11-	5723	15-	28-	7374	26-	42-	9395	41-	++	12043	58-																
	121110	088	14	11	100	14	11	1441	04	01-	3010	02-	05-	5623	16-	25-	7263	27-	34-	9268	42-	++	11908	54-	13763	52-	16362	55-												
VALENTIA 03953	120036	014	14	13	023	++	++	1379	06	06	2951	02-	02-	5560	16-	34-	7210	27-	34-	9240	38-	45-	11930	57-	++++	++	16340	56-												
	121130	014	14	09	066	13	08	1397	01	03-	2931	06-	24-	5480	22-	35-	7090	33-	46-	9060	45-	++	11770	44-	++++	++	16370	51-												
Ocean Weather Station 'I'  59°00'N 19°00'W	112300		11	08	013	11	08	1345	01	01-	2882	08-	11-	5410	25-	31-	7000	37-	44-	8940	47-	++	11660	41-	13600	43-	16310	46-	18680	46-										
	121100		11	09	021	11	09	1349	00	01-	2879	08-	13-	5400	27-	30-	6970	39-	44-	8890	50-	++	11590	43-	13520	45-	16220	48-	18590	46-	20810	48-								
Ocean Weather Station 'J'  52°30'N 20°00'W	112300		10	08	048	10	08	1369	00	01-	2898	09-	10-	5430	24-	26-	7010	36-	44-	8990	40-	50-	11730	44-																
	121300		10	07	114	08	03	1428	02-	03-	2947	09-	26-	5480	25-	37-	7060	36-	45-	9000	48-	++	11700	45-	13620	46-	16300	50-	18610	52-										



STATION	ww N <sub>H</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPopause		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	50 363++	000	990	812	988 ++ 07 922 06 04 738 ++ 06- 585 16- 18- 551 ++ 23- 466 30- 32- 448 31- 36- 380 40- 45- 349 43- 199 44- 132 48-	349	07910	43-
	02 624+2	998	988	830	953 08 06 862 02 01 819 01- 03- 773 02- 10- 762 ++ 11- 636 12- 24- 473 23- 33- 350 40- 50- 266 50- 211 45- 113 47- 100 49- 030 50-	266	09770	50-
STORNOWAY 03026	03 785++	002	000	839	990 ++ 07 870 02 01 785 ++ 04- 652 11- 14- 606 ++ 17- 594 17- 21- 573 ++ 31- 527 22- 37- 509 22- 39- 484 24- 41- 447 24- 43- 428 ++ 47- 384 ++ 39- 305 40- 49- 288 40- 49- 221 51- 199 48- 110 49-	221	11100	51-
	03 11576	994	993	829	977 10 07 941 ++ 04 863 ++ 02 767 04- 06- 735 03- 13- 728 ++ 16- 673 09- 14- 639 11- 15- 625 10- 13- 592 ++ 14- 459 24- 26- 347 40- 44- 286 51- 260 45- 175 42- 071 47- 030 40-	286	09280	51-
SHANWELL 03170	02 10930	005	004	822 764	991 11 06 872 ++ 01- 820 00 03- 788 02 05- 745 ++ 15- 611 11- 26- 524 ++ 31- 508 18- 28- 468 ++ 24- 446 20- 25- 304 38- 42- 214 52- 190 55- 159 50- 100 51- 030 48-	190	12200	55-
	25 785++	991	991	798	980 13 07 840 02 00 761 02- 05- 744 01- 07- 712 03- 14- 620 08- 25- 498 19- 38- 344 40- 50- 318 44- 289 46- 140 44- 099 50- 052 48- 030 51-	289	09220 099 16370	46- 50-
ALDERGROVE 03917	60 4557+	007	997	762	910 ++ 03 844 01 02- 753 00 03- 700 04- 06- 620 07- 09- 567 11- 13- 534 11- 15- 424 23- 30- 381 30- 37- 346 ++ 37- 293 40- 45- 253 47- 190 58- 163 53- 132 54- 100 51- 075 53- 040 50-	190	12210	58-
	60 363++	989	980	793	946 06 04 906 ++ 03 846 01 00 806 01 00 749 01- 03- 622 11- 14- 585 13- 28- 548 16- 27- 362 39- 46- 231 43- 191 42- 112 52- 104 52- 096 48- 079 51- 069 48- 060 52-	368	07520 112 15530	39- 52-
AUGHTON 03322	02 3557+	010	003	726	993 14 10 988 ++ 08 923 09 06 866 05 02 846 04 02 815 ++ 06- 790 ++ 00 766 02 00 742 01 00 708 ++ 03- 705 02- 05- 694 01- 10- 658 ++ 19- 647 03- 11- 640 ++ 10- 599 07- 11- 578 ++ 11- 500 15- 18- 403 25- 30- 389 25- 31- 294 40- 46- 225 54- 169 66- 161 60- 127 52- 105 54- 096 55- 087 52- 036 50-	169	13000	66-
	02 62501	001	995	808 773	981 13 05 932 10 04 800 01- 03- 773 00 07- 748 02- 12- 715 02- 16- 597 09- 35- 547 ++ 37- 506 ++ 25- 499 ++ 27- 429 27- 32- 385 32- 41- 369 34- 41- 326 40- 48- 279 48- 175 47- 127 52- 101 49- 089 52- 082 49- 030 48-	279	09600	48-
HEMSBY 03496	02 6557+	012	010	711	902 ++ 07 882 07 03 801 02 00 780 ++ 03- 764 03 00 680 02- 07- 610 05- 10- 562 10- 12- 477 18- 19- 440 20- 23- 350 30- 34- 291 40- 43- 195 61- 175 64- 164 64- 137 58- 040 53-	175	12800	64-
	02 58402	008	007	692	989 16 11 879 09 07 852 08 03 832 10 00 803 09 04- 727 ++ 03- 698 ++ 10- 658 03- 11- 637 05- 15- 622 04- 17- 597 06- 23- 530 11- 28- 480 ++ 31- 445 21- 28- 425 23- 29- 370 30- 38- 292 40- 46- 207 55- 181 56- 165 53- 146 57- 124 53- 033 53-	207	11800	55-
CRAWLEY 03774	01 16300	016	999	672	989 13 11 946 12 10 920 10 07 848 10 06 810 ++ 05 786 07 03 750 04 03- 692 01 06- 670 ++ 07- 643 ++ 06- 612 ++ 12- 551 ++ 13- 466 18- 26- 377 26- 38- 284 ++ 50- 235 50- 155 65- 108 55- 081 57- 051 52- 044 53- 030 51- Pressure doubtful above 100mb.	155	13710	65-
	02 684++	011	995	691	988 14 11 918 ++ 08 905 ++ 06 885 ++ 06 866 06 04 844 10 02 826 10 01- 787 ++ 03- 768 ++ 03- 701 ++ 06- 682 ++ 05- 654 03- 15- 635 03- 20- 625 ++ 27- 533 10- 42- 477 ++ 43- 424 23- 34- 395 ++ 39- 386 ++ 38- 297 ++ 50- 213 55- 182 60- 169 55- 096 51- 030 46-	182	12620	60-
CAMBORNE 03808	20 863++	017	006	679	993 13 12 950 13 10 940 ++ 08 888 ++ 06 868 06 04 848 10 06 815 ++ 03- 792 ++ 04 771 ++ 04- 762 05 03- 726 ++ 03- 704 ++ 11- 660 ++ 09- 593 ++ 17- 563 08- 24- 502 15- 28- 474 17- 32- 412 25- 41- 304 40- 50- 235 53- 173 62-	(173	12931	62-
	01 3537+	012	001	734	986 12 08 916 07 04 866 03 01- 829 06 00 784 ++ 04- 706 ++ 04- 691 02- 06- 681 01- 06- 656 03- 11- 473 ++ 29- 441 23- 32- 401 27- 34- 315 40- 46- 236 54- 216 57- 205 54- 141 52- 126 55- 100 55-	216	11400	57-
VALENTIA 03953	58 864++	003	001	735	881 07 07 639 06- 06- 614 07- 19- 567 11- 27- 444 22- 39- 381 29- 35- 260 43- 195 59- 185 60- 160 53- 098 56- 079 52-	185	12400	60-
	02 52500	008	006	820	976 10 06 864 01 03- 808 01- 05- 769 04- 09- 717 06- 13- 518 20- 33- 333 42- 292 46- 271 47- 252 44- 131 47- 106 51- 057 49-	290	09300	46-
Ocean Weather Station 'I' 59°00'N 19°00'W	15 39530	001	001	832	960 ++ 07 871 02 01 678 09- 12- 612 15- 17- 582 18- 20- 548 20- 26- 511 24- 29- 453 30- 37- 374 40- 46- 345 44- 298 48- 265 45- 235 45- 211 40- 124 45- 062 46-	298	09000	48-
	01 48532	003	003	850	937 06 04 874 ++ 02 840 ++ 03- 800 ++ 06- 784 04- 10- 765 03- 11- 640 ++ 16- 575 ++ 24- 391 40- 45- 351 46- 293 50- 217 43- 137 45- 095 48- 067 46-	293	09100	50-
Ocean Weather Station 'J' 52°30'N 20°00'W	61 3742+	006	006	856	950 ++ 03 904 02 00 769 05- 06- 495 24- 26- 456 ++ 32- 426 34- 41- 394 37- 46- 328 40- 50- 161 45-	328	08400	40-
	80 735+	014	014	894	991 07 02 906 01 00 878 ++ 02- 773 ++ 07- 762 07- 11- 722 ++ 25- 708 09- 26- 581 ++ 30- 544 20- 34- 449 31- 39- 400 36- 45- 376 40- 48- 362 42- 287 49- 219 44- 163 45- 099 50- 065 52-	287	08300	49-



## UPPER WINDS AT STANDARD LEVELS

12 June

1960

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	112248	T	000 00	+++ ++	150 04	200 06	230 06	180 06	160 07	120 11	150 14	250 24	260 32	260 29	250 19						
	120455	P	200 03	+++ ++	260 06	240 04	240 05	210 08	170 12	130 21	250 62	250 56	250 44	240 26	240 19	240 15	220 06	110 05	090 14	090 19	
	121100	T	170 12	+++ ++	200 06	170 05	150 09	180 08	210 16	240 39	240 42	240 54	230 41	230 29	230 21	210 13	P210 07	170 05	100 09		
	121658	P	090 12	+++ ++	100 18	100 19	080 22	150 19	160 26	170 23	170 22	180 18	200 25	220 16	220 17	220 12	180 01	120 05	100 13	100 21	
STORNOWAY 03026	112300	T	210 07	+++ ++	230 19	220 21	240 21	250 20	260 29	270 48	260 75	260119	260112	260 57	250 30						
	120505	P	180 09	+++ ++	200 13	210 15	210 12	230 10	250 17	240 34	240 49	240 69	240 55	240 34	230 21	240 16	200 06	110 05	070 06	090 12	
	121103	T	040 15	+++ ++	090 20	090 21	070 24	050 15	190 05	210 16	200 31	200 35	220 25	220 21	220 22	230 12	200 08	070 06	090 10		
	121700	P	030 12	+++ ++	010 19	010 21	010 22	360 22	330 14	330 10	300 08	220 03	240 16	230 17	230 17						
SHANWELL 03170	112300	T	250 05	+++ ++	270 26	270 30	260 29	260 29	260 33	260 57	270 91	260106	270111	270 85	260 36	250 24	230 09	230 04	100 07	P070 11	
	120500	P	220 04	+++ ++	200 11	210 11	220 22	240 41	240 46	250 52	240 66	240 90	240 93	250 60	250 35	250 22					
	121100	P	200 25	+++ ++	210 35	210 31	210 29	200 30	200 41	200 45	210 52	210 63	220 57	220 45	230 27	230 20					
	121700	P	290 14	+++ ++	280 23	280 25	280 24	280 25	280 24	270 25	270 27	240 30	240 38	230 34	230 30	230 14	220 05	220 04			
ALDERGROVE 03917	112300	T	220 09	+++ ++	240 21	240 21	260 39	260 50	260 57	260 76	250 66	250 90	250 92	260 89							
	120500	P	180 17	+++ ++	210 45	220 44	220 39	220 39	220 43	230 55	230 63	230 96	220102	240 65	250 38	240 21	330 10	360 06	070 12		
	121100	P	230 45	+++ ++	240 65	260 52	250 50	250 51	250 53	250 59	230 45	230 57	230 54	230 33	230 28	240 17	210 07	080 03	120 08		
	121700	P	280 22	+++ ++	280 36	290 38	290 40	280 39	270 27	250 34	260 22	250 39	240 44	250 32	240 28	230 13	070 02	290 02	200 05	100 14	
AUGHTON 03322	112300	T	190 06	+++ ++	250 26	260 30	270 44	270 50	270 72	270 54	250 66	250 69	290 69	260 60	270 45						
	120500	P	180 10	+++ ++	210 31	230 46	230 48	240 48	240 60	230 67	240 75	240 73	240 59	240 57	240 39	260 18	220 01	160 07	130 05	080 12	
	121100	T	220 22	+++ ++	240 39	240 37	240 57	230 62	230 71	230 74	230 92	230106	230 85	230 56	230 29	250 24	250 24	260 04	190 05	060 09	
	121700	P	240 22	+++ ++	250 41	250 43	260 43	260 47	250 49	250 61	230 86	230 99	240 71	230 46	230 31	240 31	260 04	190 05	060 09		
HEMSBY 03496	112300	T	250 10	+++ ++	280 27	270 30	280 43	280 53	280 55	270 59	270 57	270 71	270 73	280 70	290 48	250 25	260 13	300 01			
	120500	P	240 12	+++ ++	260 28	270 27	260 33	260 46	260 48	270 54	270 63	260 58	250 63	260 54	260 39	260 28	250 05	200 07			
	121100	T	230 20	+++ ++	230 35	240 43	250 52	240 48	240 54	240 60	240 65	250 80	240 78	240 70	230 48	240 20	200 20	050 03	P150 13		
	121700	P	240 24	+++ ++	240 42	240 47	240 50	240 53	240 62	240 67	230 76	230 87	240 96	230 83	250 40	240 29	250 09				
CRAWLEY 03774	112300	T	250 06	+++ ++	270 33	280 36	280 39	270 45	280 48	270 45	270 49	250 49	260 49	260 55	280 45	250 25	P280 19	350 06			
	120500	P	200 05	+++ ++	240 32	250 40	250 39	250 42	250 40	250 45	260 52	260 60	250 63	250 59	250 34						
	121100	T	180 20	+++ ++	240 42	250 47	240 54	240 54	240 53	230 61	240 66	240 82	240 69	230 69	240 37	240 20	230 09	180 09	140 07	P090 08	
	121700	P	210 16	+++ ++	240 39	240 46	250 51	240 59	230 62	230 65	240 76	240 85	240 91	230 79							
CAMBORNE 03808	112300	T	220 14	+++ ++	250 31	250 33	250 36	250 39	250 42	260 51	250 54	250 56	250 58	250 57	P250 35	250 25	260 16	330 02	100 03		
	120500	P	210 20	+++ ++	240 42	240 47	240 50	240 54	240 50	240 60	240 63	240 71	240 71	240 66	240 38	240 24	250 10	270 03			
	121110	T	260 18	+++ ++	270 30	260 35	240 55	240 58	240 60	240 69	240 80	240 84	240 99	240 88	240 46						
	121700	P	260 18	+++ ++	270 25	280 27	270 28	250 37	250 49	240 61	220 87	220 95	230118	240 61	230 32	240 22	250 14				
VALENTIA 03953	112346	P	225 30	+++ ++	220 53	220 58	230 62	230 73	230 72	230 79	240 78										
	121141	P	270 20	+++ ++	270 32	280 23	280 29	290 32	270 44	260 51	250 65	250 71	240 50	240 43	250 31						
Ocean Weather Station 'I' 59°00'N 19°00'W	112300	T	350 10	+++ ++	350 10	350 12	350 10	360 08	350 07	300 09	300 16	270 25	250 14	240 18	260 15	240 10	220 07				
	120500	P	045 10	+++ ++	030 13	020 14	010 14	360 12	020 11	040 10	320 11	280 21	290 12	290 12	270 11						
	121100	T	040 18	+++ ++	030 17	020 15	360 15	340 14	340 17	330 15	320 10	300 16	310 12	310 09	260 12	260 14	250 08				
	121700	P	360 20	+++ ++	350 16	350 17	350 18	350 19	330 24	310 16	330 14	310 15	300 15	310 13	270 14	290 06	280 06				
Ocean Weather Station 'J' 52°30'N 20°00'W	112300	T	300 25	+++ ++	300 28	300 30	290 26	290 21	280 30	270 28	260 22	230 51	230 59	220 54							
	120500	P	315 30	+++ ++	300 35	290 32	280 32	280 30	290 33	290 34	290 42	290 46	270 43	260 38	250 36	240 35					
	121100	P	270 30	+++ ++	290 26	290 28	280 29	280 26	280 25	280 27	270 32	270 40	280 37	300 32	300 21	290 21					
	121700	P	270 20	+++ ++	300 34	300 31	290 29	290 20	300 40	310 48	310 51	300 57	300 48	300 30	300 24	300 19	240 13				
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 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. 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	06300m 240 24 05820/2 06500/3 10620/1 P25800m 100 15 27600m 100 18	260 69 07360m
STORNOWAY 03026	228mb 270 85 120mb 250 22 28500m 090 26 05360/0 05800/0 11270/1 15000m 240 15 08500/5	260 123 09920m 240 72 09110m
SHANWELL 03170	441mb 270 114 168mb 260 51 P27300m 080 15 08250m 240 85 17100m 220 07 02250/0 08250/0 11700/1 12300/1 17000m 210 15	270 114 11200m 240 96 08470m 210 66 09300m
ALDERGROVE 03917	169mb 240 63 17650/8 25800m 110 08 11600/1 08550/0 09060/0	260 101 11940m 230 108 11200m 250 70 09800m
AUGHTON 03322	110mb 250 21 27300m 090 13 00900/0 04240/0 09410/1 11970/1 25800m 080 07 04420/0 08270/0 10250/1 10710/1 11870/1 16430/1	250 80 10880m 240 78 07890m 230 108 09220m 240 105 08520m
HEMSBY 03496	22400m 010 01 11800/1 116mb 240 30 P25200m 140 17 13040m 240 59 17150m 230 21 20000m 220 10 13040/1 14050/1	270 78 11390m 250 69 10030m 250 91 09160m 240 98 10700m
CRAWLEY 03774	P23300m 120 09 15000m 250 24 P28500m 060 14 13600m 230 54 12910/4	260 61 11710m 250 66 09720m 240 84 08900m 240 92 10030m
CAMBORNE 03808	P24300m 100 03 23100m 060 03 176mb 240 63 113mb 240 34 04360/0 05780/0 06270/0 07380/0 08850/0 11050/1 11550/1	250 65 12170m 240 76 09860m 240 105 09820m 230 119 10160m
VALENTIA 03953	00300m 210 44 00600m 210 51 08100m 230 74 00300m 280 25 00600m 270 29 14700m 250 30	230 88 06780m 250 73 08910m
Ocean Weather Station 'I' 59°00'N 19°00'W	555mb 320 08 075mb 220 08 07100m 290 15 25500m 270 11 06720/5 07150/6 156mb 280 09 075mb 250 07 055mb 230 08 19500m 280 06	
Ocean Weather Station 'J' 52°30'N 20°00'W	323mb 240 39 174mb 220 56 17400m 280 11 19800m 240 07 08450/1 17950/5	230 63 09700m 300 63 08600m
LARKHILL 03743		

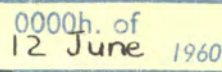
## NOTES ON THE AEROLOGICAL SITUATION

The strong westerly flow persisted over the Atlantic and extended east to affect the British Isles and western Europe. The trough downwind over Europe moved quickly east and relaxed. The low which was over the Hudson Strait yesterday continued to move east and linked with the low over southern Greenland. The low north of Bermuda moved slowly northeast.

AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
<b>LERWICK</b> (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
<b>LARKHILL/CRAWLEY</b> † 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 <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
<b>MALTA</b> (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropo- pause		Average Press.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		123	-65.7	...	73	...	-73
		193	-59.8	266	...	-46	...
* V <sub>R</sub> = Vector average wind. V <sub>S</sub> = 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



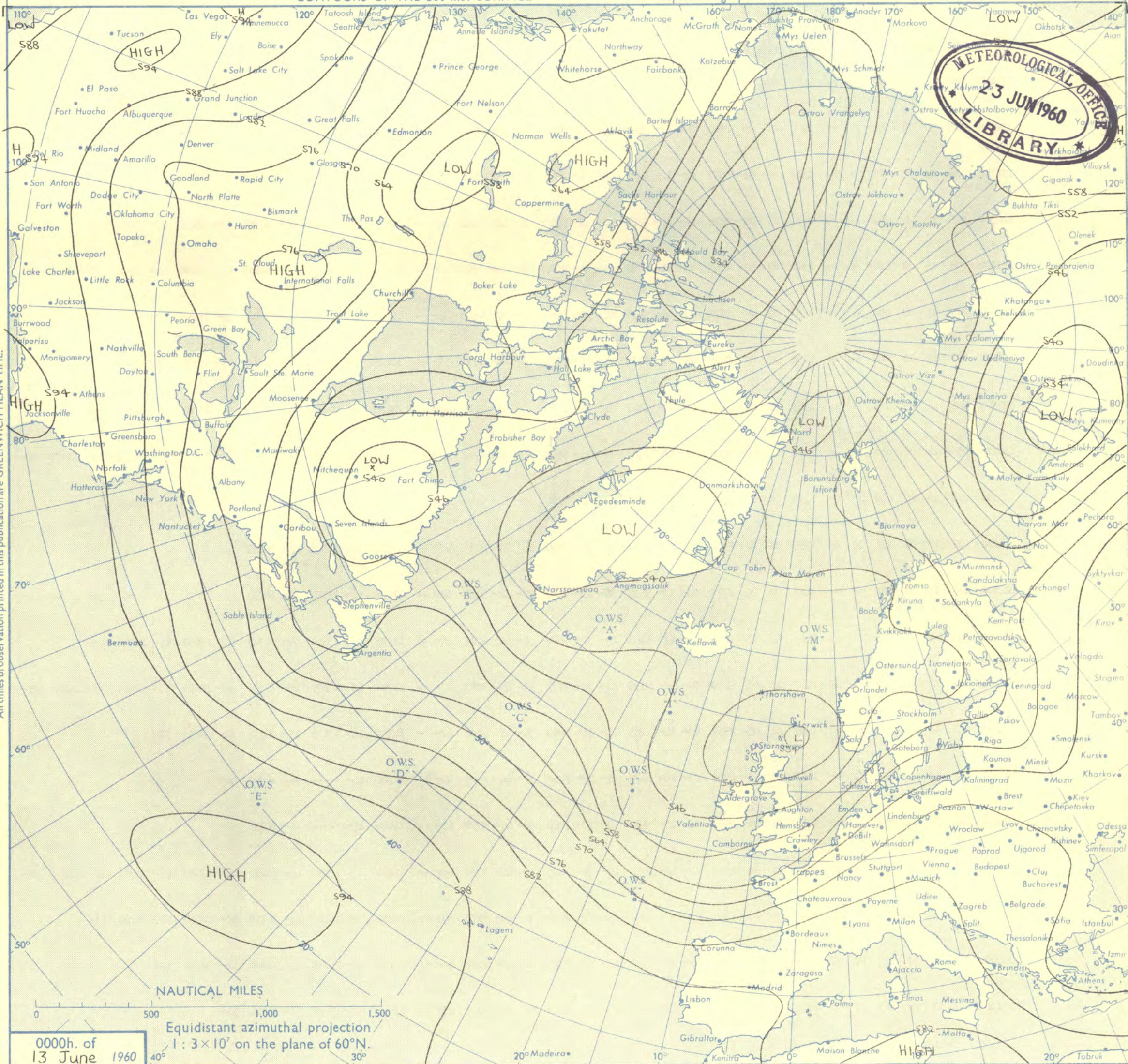
Equidistant azimuthal projection  
1 :  $3 \times 10^7$  on the plane of  $60^\circ\text{N}$ .



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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









STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE																														TROPOPAUSE			
		MSL	Surf.	0°C level																												mb	m	°C	
LERWICK 03005	51 7722+	989	979	804	711 06- 08- 687 ++ 08- 656 ++ 19- 645 ++ 23- 543 17- 33- 344 40- 50- 297 48- 284 49- 258 48- 240 44- 139 44- 100 47- 043 48-																											284	09300	49-	
	25 724++	991	982	794	978 10 08 669 ++ 09- 563 ++ 19- 499 23- 31- 477 25- 29- 430 31- 33- 424 32- 35- 403 ++ 39- 359 40- 46- 329 44- 290 49- 263 50- 228 44- 125 43- 100 46- 030 49-																											290	09130	49-	
STORNOWAY 03026	25 5353+	996	994	814	987 11 09 840 ++ 00 783 02- 03- 709 06- 16- 682 ++ 18- 660 ++ 14- 617 13- 26- 610 ++ 29- 569 16- 24- 534 ++ 28- 521 21- 30- 469 25- 38- 428 29- 40- 352 40- 48- 284 53- 266 47- 221 43- 103 47- 049 47-																											284	09320	53-	
	25 724++	998	997	821	957 08 05 812 ++ 04- 772 03- 05- 690 ++ 13- 601 ++ 20- 556 19- 25- 397 40- 46- 352 46- 319 45- 286 48- 231 43- 099 48- 085 46- 073 50- 063 47- 030 47-																											352 073	07810 18300	46- 50-	
SHANWELL 03170	01 48560	994	994	839 805	961 08 03 948 08 03 895 ++ 01 839 00 03- 805 00 05- 747 04- 07- 737 04- 08- 648 09- 14- 599 14- 17- 504 20- 26- 475 ++ 29- 432 29- 36- 379 37- 44- 328 45- 283 50- 271 46- 185 42- 118 47- 105 45- 091 50- 047 48-																											283 091	09320 16910	50- 50-	
	80 685++	998	997	819	977 12 06 826 00 02- 736 ++ 05 700 ++ 11- 656 08- 13- 626 ++ 15- 616 ++ 17- 538 ++ 29- 372 40- 47- 294 51- 233 43- 109 45- 090 49- 081 48- 076 51- 062 48- 036 52- 030 49-																											294 090	09070 16994	51- 49-	
ALDERGROVE 03917	21 364++	001	992	822	930 ++ 06 884 ++ 01 788 03- 04- 763 03- 05- 714 07- 12- 685 ++ 16- 667 ++ 15- 619 13- 20- 530 ++ 30- 386 40- 45- 307 50- 270 42- 186 46- 164 43- 119 48- 114 46- 090 49- 040 49-																											307	08780	50-	
	25 49403	002	993	818	971 11 07 892 ++ 03 839 01 01- 802 ++ 05- 745 ++ 01- 650 ++ 22- 623 13- 22- 586 ++ 23- 490 28- 32- 386 ++ 43- 294 52- 235 44- 121 45- 104 49- 030 48-																											294 104	09070 15990	52- 49-	
AUGHTON 03322	02 35500	004	997	816	994 12 09 987 ++ 08 774 03- 07- 752 03- 09- 667 ++ 20- 608 12- 25- 358 40- 50- 339 42- 301 45- 281 46- 251 47- 230 44- 171 47- 148 44- 134 44- 097 53- 090 46- 074 51- 063 47- 040 49-																											281 097 074	09480 16530 18310	46- 53- 51-	
	02 32542	005	998	842	993 12 03 932 06 03 916 05 03 885 03 02- 844 00 05- 830 01- 05- 817 01- 08- 807 ++ 11- 770 04- 13- 744 ++ 11- 712 ++ 13- 676 10- 23- 668 ++ 26- 630 ++ 26- 476 30- 38- 392 40- 47- 327 49- 294 50- 253 44- 160 45- 108 50- 059 49- 030 50-																													327	08360
HEMSBY 03496	02 7097+	006	004	762	951 10 03 908 09 00 805 01 05- 783 ++ 10- 719 02- 15- 698 ++ 14- 667 ++ 17- 591 14- 20- 567 14- 18- 515 ++ 20- 483 20- 26- 455 23- 30- 346 37- 41- 324 38- 42- 237 55- 163 48- 100 53- 087 50- 080 53- 072 51- 043 52-																											237	10700	55-	
	03 62502	006	005	816	997 15 02 864 03 01- 830 01 01- 733 ++ 08- 720 06- 11- 712 06- 12- 670 09- 22- 630 ++ 23- 560 19- 33- 488 27- 40- 462 28- 42- 360 40- 50- 323 45- 305 46- 207 44- 155 49- 120 47- 100 51- 083 52-																											305 155 100	08900 13400 16290	46- 49- 51-	
CRAWLEY 03774	02 00907	010	993	747	920 08 04 827 01 02- 787 02 10- 750 00 16- 719 ++ 12- 618 11- 17- 610 ++ 18- 574 13- 15- 528 15- 19- 494 ++ 23- 487 ++ 22- 449 ++ 30- 427 27- 32- 419 27- 32- 341 37- 39- 331 37- 40- 304 40- 45- 220 54- 213 51- 098 51- 087 53- 030 51																											220	11230	54-	
	03 52500	009	992	825	983 13 04 924 ++ 02 901 ++ 01- 833 ++ 03- 813 01- 05- 770 ++ 13- 732 ++ 13- 720 ++ 16- 670 09- 19- 468 27- 36- 370 ++ 47- 313 49- 211 44- 100 50- 069 51- 053 47- 032 48-																											313	08740	49-	
CAMBORNE 03808	02 55500	012	001	814	987 12 09 934 ++ 06 902 ++ 01 847 ++ 00 808 00 02- 781 ++ 04- 700 ++ 14- 632 11- 21- 503 21- 32- 365 40- 50- 326 45- 305 47- 188 45- 140 49- 109 50- 030 51-																											305	08980	47-	
	25 59463	011	001	825	906 05 01 890 04 01- 736 ++ 10- 690 ++ 15- 680 10- 14- 669 11- 19- 642 ++ 21- 631 ++ 20- 589 ++ 22- 562 ++ 25- 531 ++ 27- 527 22- 26- 511 ++ 26- 478 ++ 35- 430 ++ 40- 375 40- 45- 317 47- 304 47- 268 43- 180 44- 091 52- 082 50- 060 51-																													317	08650
VALENTIA 03953	03 43500	010	008	850	785 05- 08- 756 05- 11- 628 13- 24- 402 36- 43- 368 42- 254 43- 112 49- 068 50-																											300	08990	49-	
	01 59402	009	008	840	913 05 03 787 03- 04- 734 05- 08- 607 14- 20- 442 34- 41- 315 48- 280 49- 193 45- 136 50- 106 49- 080 54- 072 54-																											320 140	08700 14000	48- 50-	
Ocean Weather Station 'I' 59°00'N 19°00'W	02 4353+	006	006	831	960 08 08 922 ++ 03 862 02 01 780 00 04- 712 07- 10- 685 09- 10- 619 ++ 18- 542 ++ 23- 434 34- 37- 394 40- 43- 306 48- 263 48- 205 43- 099 48-																											306	08800	48-	
	01 11531	011	011	897	961 05 01- 920 ++ 02- 885 01- 06- 841 03- 09- 790 ++ 15- 750 11- 15- 727 08- 15- 688 10- 18- 640 14- 19- 433 31- 39- 371 40- 46- 335 46- 268 55- 194 48- 127 47- 099 50- 032 51-																											268	09700	55-	
Ocean Weather Station 'J' 52°30'N 20°00'W	02 52500	015	015	848	894 02 00 818 02- 06- 791 00 06- 769 06- 10- 757 04- 12- 746 ++ 20- 705 06- 24- 650 ++ 23- 609 ++ 31- 508 23- 31- 370 40- 46- 347 44- 319 43- 280 47- 122 50- 060 53-																											347 280	08100 09500	44- 47-	
	60 574++	014	014	839	955 06 04 809 02- 04- 793 01- 04- 759 02- 07- 691 07- 13- 660 09- 13- 628 ++ 19- 560 16- 20- 506 ++ 23- 490 ++ 27- 462 ++ 30- 417 29- 37- 410 29- 37- 319 40- 46- 242 53- 223 53- 201 49-																											242	10600	53-	



## UPPER WINDS AT STANDARD LEVELS

13 June

1960

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	122347	T	030 25	+++ ++	070 30	080 25	070 18	060 14	050 10	060 14	070 22	080 32	190 06	210 13	230 15	200 14	P170 07				
	130500	P	010 15	+++ ++	030 14	020 14	020 14	030 21	030 16	040 16	040 18	360 19	220 06	220 07	210 16	200 15	180 07	130 09			
	131100	T	010 18	+++ ++	010 15	010 11	350 14	350 12	330 15	360 15	360 21	010 21	300 06	210 11	210 12	200 09	P180 09	150 10	120 14		
	131703	P	010 10	+++ ++	010 08	010 11	010 11	010 10	350 11	330 13	360 21	350 14	230 07	230 07	210 07	220 10	140 06	140 05	120 12	110 21	
STORNOWAY 03026	122300	T	270 03	+++ ++	320 18	320 19	330 17	340 20	330 28	310 22	240 21	220 22	240 08	240 14	240 11	240 10	220 11				
	130505	P	300 12	+++ ++	330 21	330 22	330 24	330 25	320 24	310 25	250 19	250 14	260 09	240 06	260 08	250 07	150 05	100 03	090 16	100 22	
	131100	T	340 15	+++ ++	330 22	330 21	330 21	330 21	320 18	310 13	300 16	220 05	280 04	240 05	260 11	220 06	200 06	100 10			
	131700	P	340 17	+++ ++	330 20	320 19	320 17	310 15	310 14	300 13	310 03	000 00	290 07	300 09	260 07	260 09	250 04				
SHANWELL 03170	122300	T	270 08	+++ ++	290 32	290 30	290 30	290 33	280 25	260 21	270 23	250 19	230 30	240 29	230 17	230 10	210 08				
	130500	P	270 08	+++ ++	290 23	290 23	270 20	280 24	300 27	280 19	220 10	220 13	240 18	220 20	230 18	220 13	040 03	210 07	070 08		
	131100	T	270 10	+++ ++	250 18	250 17	260 19	270 18	270 24	270 22	250 18	250 14	210 18	230 16	230 15	220 06	190 13	090 08	130 10	P130 14	
	131700	P	250 03	+++ ++	280 16	290 18	300 16	290 15	270 15	260 15	260 12	260 10	250 14	230 09	240 12	250 07	040 06	110 02			
ALDERGROVE 03917	122300	T	260 15	+++ ++	280 33	280 31	280 30	280 30	270 26	270 21	260 29	260 30	240 21	240 27	250 12	230 03	P190 11	120 07	120 12		
	130500	P	260 14	+++ ++	280 24	290 24	290 23	300 19	270 13	260 13	270 15	230 15	260 22	260 18	250 13	250 09	280 03	130 02	060 09		
	131100	T	250 12	+++ ++	290 15	300 16	290 18	290 17	290 13	300 14	310 11	270 07	280 12	270 15	270 17	270 07	180 05	070 07	110 11		
	131700	P	340 07	+++ ++	320 16	300 18	290 17	300 18	290 15	290 11	270 10	290 19	290 18	280 20	280 16	260 13	290 02	260 02			
AUGHTON 03322	122300	T	250 16	+++ ++	270 36	260 35	260 34	260 33	260 37	240 32	240 40	230 46	230 48	230 45	240 33	220 13	240 12	140 08			
	130500	P	260 18	+++ ++	270 30	270 27	260 27	270 27	250 24	250 21	230 29	230 29	230 29	230 31	230 16	240 17	190 04	130 03			
	131112	T	250 18	+++ ++	260 25	250 26	270 22	270 17	260 19	250 17	230 12	230 21	240 20	230 20	240 20	240 11	190 03	150 06	130 13		
	131700	P	270 21	+++ ++	250 24	250 21	250 15	260 17	280 14	310 08	320 11	270 12	260 19	260 21	260 17	260 12	310 06	130 09			
HEMSBY 03496	122300	T	230 15	+++ ++	250 31	250 28	250 33	240 40	230 45	230 60	230 79	220102	220110	230 82	240 39	230 20	210 09	150 12			
	130500	P	260 10	+++ ++	270 20	260 24	250 24	240 32	240 38	230 50	220 60	220 74	220 65	220 48	230 28	230 22	210 08	150 08			
	131100	T	230 14	+++ ++	250 18	250 20	250 25	240 25	230 30	230 42	220 66	210 64	220 56	220 43	220 38	230 15	P220 20	170 08	130 15		
	131700	P	270 10	+++ ++	240 16	240 17	240 16	240 20	230 27	230 29	220 37	210 45	210 42	220 37	230 27	230 20	240 13	100 03	140 09		
CRAWLEY 03774	122300	T	200 04	+++ ++	260 25	260 27	240 44	240 48	230 42	230 59	230 83	220102	220108	220 85	240 40	230 30					
	130500	P	260 08	+++ ++	280 19	270 18	260 19	240 25	230 42	230 48	220 61	220 77	230 63	230 47	240 31	240 23	250 13				
	131100	T	280 07	+++ ++	260 11	260 20	260 23	260 25	250 30	240 40	230 44	220 50	220 48	230 39	240 29	250 17	220 17	130 10			
	131700	P	210 15	+++ ++	250 17	270 18	260 17	250 24	230 25	230 25	230 33	220 30	230 38	240 37	250 21	240 21	250 15	160 08	160 05		
CAMBORNE 03808	122300	T	260 10	+++ ++	290 22	290 22	270 23	260 25	250 30	240 39	240 44	230 50	230 50	240 47	230 37	250 15	240 09	350 06	070 08	P070 08	
	130500	P	250 05	+++ ++	290 20	290 23	270 24	260 27	260 29	270 37	270 47	260 44	250 38	250 37	260 27	260 16	270 11	230 02			
	131100	T	260 16	+++ ++	280 24	280 25	270 24	270 25	260 25	260 30	250 35	260 36	270 33	270 34	270 27	270 21	280 05				
	131700	P	250 20	+++ ++	270 26	290 29	290 29	300 30	300 27	310 31	300 36	300 44	300 45	290 36	280 27	270 14	270 18	110 04	110 07		
VALENTIA 03953	130001	T	300 15	300 17	+++ ++	280 27	+++ ++	270 28	+++ ++	260 28	270 31	270 30	+++ ++	270 30	+++ ++	280 19					
	131130	T	320 10	320 12	300 21	300 21	+++ ++	310 25	+++ ++	300 28	300 35	310 41	+++ ++	300 43	+++ ++	290 16					
Ocean Weather Station 'I' 59°00'N 19°00'W	122300	T	010 20	+++ ++	030 22	030 19	020 23	010 13	010 06	090 06	010 08	360 22	330 19	300 26	310 20	290 11	260 03	270 02			
	130600	P	045 20	+++ ++	030 19	360 17	350 15	330 20	330 17	310 14	340 18	020 21	010 26	330 23	300 25	290 20					
	131100	T	020 15	+++ ++	020 10	020 11	010 16	340 21	320 23	340 17	310 13	350 05	330 05	300 29	290 22	300 15	270 13	260 03			
	131700	P	360 05	+++ ++	010 05	360 08	360 09	350 11	320 21	310 15	320 14	340 10	290 33	230 37	300 24	280 11	300 06	290 03			
Ocean Weather Station 'J' 52°30'N 20°00'W	122300	T	290 20	+++ ++	290 25	290 29	300 36	300 36	300 45	310 52	310 51	310 91	310 82	310 54	310 46	300 16	290 15				
	130500	P	315 10	+++ ++	290 18	300 25	300 31	310 34	300 35	300 51	310 83	310102	310 96	310 54	300 30	300 27					
	131100	T	270 08	+++ ++	280 18	270 20	310 27	310 29	300 32	300 51	300 69	310 90	300 93	300 69	290 54	310 21					
	131700	P	270 10	+++ ++	290 16	280 16	280 16	270 16	260 21	280 42	310 69	310 84	310 98	300 88	310 44	300 36					
LARKHILL 03743	130615	P	270 07	+++ ++	280 21	270 23	260 22	250 27	250 31	250 36	240 48	230 51	230 40	230 35	250 25	240 15	270 06				
	131030	P	250 06	+++ ++	270 16	260 20	260 22	260 28	250 25	250 37	250 43	230 39	230 39	230 35	250 25	260 18	200 08	240 03			

## 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
131156	58.2°N 26.7°W	008	001	861	061 08 08	064 04 01	923 02 04-	1381 01- 05-	1865 04- 16-	05- 17-	2911 08- 16-	12- 17-	4087 15- 26-	19- 32-	5438 25- 38-	
Cloud :— 6/8 Cu. 1500 to 2700 ft. 2/8 Cu. 1500 to 11000 ft. 7/8 Sc. 5000 to 7000 ft. 1/8 Ac. at 9000 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	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
131322	60.8°N 20.8°W	010	002	885	061 08 01	079 05 01	939 01 03-	1393 02- 05-	1875 05- 08-	08- 15-	2911 11- 21-	15- 23-	4078 17- 34-	21- 29-	5422 26- 34-	
Cloud :— 1/8 Cu. 2000 to 3500 ft. 1/8 Cu. 2000 to 12000 ft. 1/8 Sc. 3000 to 3500 ft. 1/8 Ac. 10000 to 11000 ft. 2/8 Cl. at 30000 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			
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	270mb 080 10 P19500m 160 06 22200m 130 06 09220/1 09600/8 27900m 120 22 10100/5	
STORNOWAY 03026	542mb 330 36 053mb 360 04 27000m 120 24 01480/2 07030/5 035mb 130 10 07410/8 09270/9	
SHANWELL 03170	055mb 020 05 06200m 260 17 P27800m 090 24 23000m 220 13	
ALDERGROVE 03917	P24700m 210 03 25250m 120 12 P25200m 120 11 23100m 130 11	
AUGHTON 03322	042mb 180 07 22200m 130 09 22200m 090 02 09100/5	
HEMSBY 03496	187mb 230 60 22300m 100 07 10530/1 131mb 230 28 P25400m 130 13 25900m 130 07 13900/1	220 114 10400m 220 75 09770m 220 67 06900m
CRAWLEY 03774	085mb 230 24 19500m 320 03 03930/0 19970/2 035mb 200 05 24600m 160 09 19500/5	210 113 10020m 220 78 09080m
CAMBORNE 03808	P29100m 090 18 21600m 120 04 063mb 270 06 24600m 110 12	
VALENTIA 03953	756mb 280 28 628mb 270 25 254mb 270 30 068mb 280 10 734mb 310 23 607mb 310 24 442mb 300 32 136mb 290 25	
Ocean Weather Station 'I' 59°00'N 19°00'W	075mb 160 02 035mb 230 11 18000m 290 14 362mb 330 10 213mb 310 18 075mb 270 13 035mb 130 05 09900m 310 19 15600m 280 17 22800m 130 15 10050/6 15350/1 21300/8	
Ocean Weather Station 'J' 52°30'N 20°00'W	343mb 300 69 232mb 310 70 066mb 290 15 11100m 310 74 07330/0 09200/0 10160/1 11000/1 221mb 300 81 120mb 310 35 084mb 310 18 12900m 300 72 17100m 300 11 06350/0 08340/0 08710/1 13580/1	310 105 09220m 260 114 09950m 300 95 10360m 310 103 11260m
LARKHILL 03743	19810m 160 06 01887/5	

## NOTES ON THE AEROLOGICAL SITUATION

The strong and predominantly westerly flow has persisted and extended further east into Russia. The low which was north of Bermuda has moved north to Newfoundland and the westerlies are re-established to the south of this low. A trough is moving east across the British Isles.

AVERAGE AND EXTREME VALUES 1951-55								
JUNE								
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.								
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>			
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	22345	-48.1	-42	-55	...	...	(11)	
60	19675	-48.1	-41	-55	120	3	8	
100	16320	-48.8	-41	-56	244	5	11	
150	13660	-48.3	-41	-59	263	10	18	
200	11770	-49.8	-39	-67	271	16	27	
300	9125	-46.7	-37	-56	271	22	41	
400	7160	-32.6	-23	-44	271	18	33	
500	5555	-20.8	-11	-31	269	14	26	
700	2985	-5.2	3	-14	266	9	19	
850	1435	2.8	14	-7	269	6	18	
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)			
Average		257	-54.7		10190			
Max.		405	-40		12955			
Min.		172	-68		6890			
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 <sub>R</sub> V <sub>S</sub>			
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	22310	-49.6	-47	-57	106	9	10	
60	19675	-51.4	-45	-59	136	3	8	
100	16370	-52.6	-46	-61	251	8	13	
150	13745	-51.8	-42	-65	265	15	21	
200	11890	-54.0	-40	-65	268	20	32	
300	9265	-44.7	-36	-54	265	20	39	
400	7275	-29.6	-19	-41	265	17	31	
500	5640	-17.8	-9	-28	263	15	25	
700	3050	-2.1	7	-10	263	11	19	
850	1480	5.7	16	-3	264	7	16	
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)			
Average		234	-56.8		10950			
Max.		388	-41		13440			
Min.		160	-66		7225			
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.								
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>			
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	(22185)	(-60.7)	...	...	120	5	11	
60	19670	-60.7	-53	-69	135	4	10	
100	16510	-62.9	-57	-71	255	21	24	
150	13995	-59.0	-51	-67	265	38	42	
200	12185	-56.6	-47	-67	275	42	47	
300	9530	-40.1	-33	-46	285	32	38	
400	7500	-23.9	-19	-29	285	27	31	
500	5835	-11.8	-8	-17	285	24	28	
700	3165	7.2	13	-1	290	18	22	
850	1535	17.9	27	8	290	9	14	
Tropo- pause		Average Press. Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.		
Upper		mb. °C	mb.	mb.	°C	°C		
Lower		123 -65.7	...	73	...	-73		
		193 -59.8	266	...	-46	...		
* V <sub>R</sub> = Vector average wind. V <sub>S</sub> = 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.								

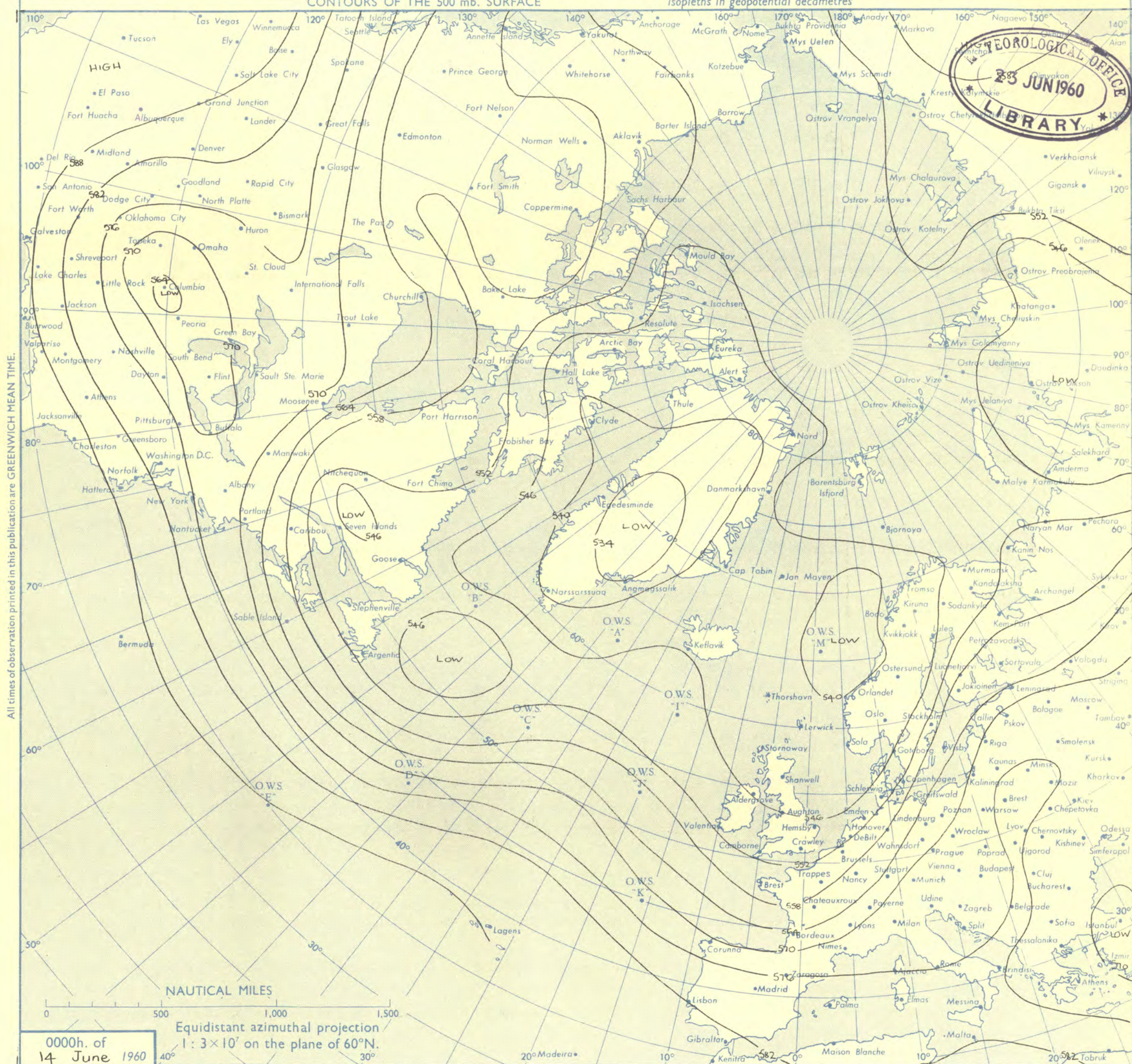






CONTOURS OF THE 500 mb. SURFACE

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	gpm	°C						
LERWICK 03005	132246	082	09	08	000	++	++	1331	02	01	2875	07-	11-	5414	23-	31-	7005	36-	41-	8938	52-	++	11603	44-	13529	45-	16232	47-	18590	48-	20816	47-	24186	48-						
	141100	082	10	04	060	++	++	1380	02-	03-	2916	08-	12-	5456	24-	27-	7054	35-	38-	8999	50-	++	11654	44-	13586	44-	16310	46-	18672	47-	20903	48-	24276	49-						
STORNOWAY 03026	132300	013	10	09	041	10	09	1368	01	00	2904	08-	09-	5424	28-	31-	6984	41-	++	8898	48-	++	11585	47-																
	141100	013	10	09	089	09	07	1412	00	01-	2942	09-	13-	5464	26-	33-	7049	35-	43-	8985	52-	++	11661	45-	13574	46-	16263	47-												
SHANWELL 03170	132300	005	12	07	026	12	06	1365	02	02-	2904	08-	12-	5431	27-	34-	7006	38-	47-	8916	53-	++	11603	44-	13526	44-	16212	48-	18552	49-	20757	50-	24099	50-						
	141100	005	12	10	080	10	08	1409	01	00	2944	08-	12-	5468	27-	32-	7036	40-	47-	8956	48-	++	11660	43-	13597	44-	16293	48-	18649	48-	20874	48-	24255	48-						
ALDERGROVE 03917	132300	077	11	09	061	++	++	1392	01	02-	2927	08-	14-	5458	26-	32-	7032	38-	44-	8950	51-	++	11653	42-	13586	45-	16279	48-	18618	50-	20828	49-	24182	48-						
	141100	077	13	08	103	12	08	1433	01	00	2969	07-	15-	5501	25-	32-	7085	36-	44-	9022	50-	++	11723	44-	13650	45-	16326	50-	18667	48-	20877	48-	24254	46-						
AUGHTON 03322	132300	056	10	09	056	10	09	1390	02	01	2930	08-	13-	5459	26-	29-	7030	39-	42-	8941	52-	++	11622+	45-	13540	46-	16208	50-	18533	51-	20727	50-								
	141100	056	14	08	103	13	07	1434	01	02-	2969	07-	18-	5500	26-	37-	7081	37-	47-	9007	51-	++	11704	45-	13629	45-	16317	48-												
HEMSBY 03496	132300	012	10	06	066	11	06	1406	03	02-	2945	08-	12-	5468	25-	35-	7052	37-	45-	8985	47-	++	11707	43-	13634	45-	16314	50-	18646	50-	20853	49-	24215	49-						
	141100	012	16	08	096	13	04	1437	03	00	2978	08-	10-	5513	25-	31-	7092	39-	45-	9014	49-	++	11733	42-	13666	45-	16354	48-												
CRAWLEY 03774	132300	144	08	07	094	++	++	1430	02	00	2965	08-	17-	5486	27-	34-	7060	38-	46-	9004	45-	++	11737	42-	13669	46-	16348	49-	18673	52-	20865	50-								
	141100	144	13	10	117	++	++	1453	02	00	2990	09-	11-	5505	27-	30-	7075	39-	43-	9004	46-	++	11727	44-	13651	47-	16318	50-	18641	52-	20832	49-	24167	49-						
CAMBORNE 03808	132300	088	12	10	110	12	10	1446	02	01	2985	06-	14-	5524	25-	31-	7106	37-	43-	9050	47-	++	11752	45-	13661	49-	16315	49-	18634	52-	20808	53-	24122	51-						
	141100	088	14	09	140	14	09	1480	02	01-	3021	07-	16-	5568	23-	35-	7166	34-	44-	9151	42-	++	11831	47-	13726	49-	16366	51-												
VALENTIA 03953	140000	014	12	09	107	11	08	1437	00	02-	2969	08-	16-	5500	25-	33-	7090	36-	46-	9060	42-	++	11770	47-	16340	50-														
	141130	014	14	10	131	12	08	1462	00	04-	2997	08-	13-	5550	20-	35-	7180	27-	38-	9200	41-	++	11840	59-	++++	++	16280	56-												
Ocean Weather Station 'I' 59°00'N 19°00'W	132300		10	03	102	09	03	1423	00	08-	2950	09-	15-	5480	23-	30-	7080	35-	++	9020	48-	++	11710	46-	13630	46-	16320	48-	18670	47-	20890	48-	24260	48-						
	141100		11	05	099	09	03	1417	01-	09-	2941	1-	17-	5470	23-	36-	7080	31-	39-	9050	47-	++	11660	52-	13530	51-	16170	51-	18520	48-										
Ocean Weather Station 'J' 52°30'N 20°00'W	132300		11	08	117	10	07	1446	01	03-	2994	0-	08-	5590	17-	25-	7230	27-	31-	9250	41-	++	11900	59-	13720	55-	16310	56-	18580	54-	20730	55-								
	141100		12	10	090	11	09	1423	02	01-	2983	01-	15-	5600	16-	20-	7250	24-	27-	9290	40-	43-	11930	62-	13740	55-	16330	57-	18600	54-	20750	54-								



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	50 882++	000	990	807	982 ++ 06 944 06 04 793 01- 03- 732 ++ 07- 707 06- 10- 637 13- 15- 618 13- 16- 590 ++ 21- 570 ++ 21- 522 ++ 31- 502 23- 31- 430 ++ 37- 370 40- 45- 297 53- 284 54- 215 44- 137 45- 100 47- 030 48-	284	09300	54-
	02 484++	007	997	875 801	977 07 03 825 03- 04- 810 ++ 13- 800 00 14- 790 ++ 07- 777 01- 08- 712 07- 10- 590 ++ 18- 468 26- 29- 360 40- 43- 270 56- 224 45- 162 43- 030 49-	270	09680	56-
STORNOWAY 03026	63 373++	005	004	830	917 ++ 04 896 ++ 01 862 01 00 845 01 00 612 15- 17- 467 32- 35- 404 40- 44- 382 44- 357 47- 281 49- 249 46- 192 47-	357	07730	47-
	80 784++	011	009	857	983 ++ 06 940 05 03 766 ++ 05- 700 ++ 13- 655 ++ 20- 545 21- 28- 494 27- 34- 405 34- 42- 368 40- 47- 300 52- 286 53- 244 46- 139 45- 115 48- 089 48-	286	09300	53-
SHANWELL 03170	02 556++	003	003	815	987 12 06 827 01 02- 687 09- 13- 626 13- 19- 567 19- 25- 525 23- 31- 488 28- 35- 409 37- 46- 309 53- 289 53- 277 49- 206 43- 174 46- 149 44- 103 49- 079 50- 030 50-	309	08720	53-
	51 872++	010	009	829	994 09 07 796 02- 03- 600 16- 22- 558 ++ 24- 544 22- 28- 448 ++ 37- 397 40- 47- 340 48- 302 49- 197 43- 121 46- 092 49- 036 45- 033 49- 030 48-	340	08120	48-
ALDERGROVE 03917	03 4847+	007	998	833	974 10 06 914 05 03 855 ++ 02- 778 04- 05- 768 02- 05- 742 ++ 11- 635 13- 20- 600 15- 22- 389 ++ 46- 360 44- 304 51- 204 42- 138 44- 112 49- 102 47- 096 49- 070 50- 064 48- 030 48-	304	08860	51- 112 15551 49-
	25 785++	012	003	826	979 09 05 919 04 03 847 ++ 00 818 ++ 04- 782 ++ 07- 760 04- 06- 735 04- 14- 720 ++ 15- 682 ++ 14- 606 16- 22- 526 ++ 31- 512 24- 32- 450 31- 38- 303 50- 237 44- 130 46- 113 50- 107 47- 098 50- 030 46-	303	08940	50- 113 15500 50-
AUGHTON 03322	02 555++	007	000	814	980 10 08 936 07 05 893 05 02 862 03 02 721 ++ 08- 695 08- 14- 682 09- 13- 629 13- 19- 608 ++ 19- 451 ++ 34- 393 40- 43- 342 48- 294 53- 269 50- 228 44- 109 50- 036 50-	294	09040	53-
	02 52600	012	006	842	993 12 07 956 08 05 888 03 01 802 03- 06- 792 02- 09- 788 ++ 12- 764 02- 14- 646 ++ 21- 587 17- 29- 516 ++ 33- 482 ++ 40- 433 33- 46- 400 ++ 47- 380 40- 50- 306 52- 229 43- 206 45- 156 44- 115 48- 080 48-	306	08870	52-
HEMSBY 03496	01 20961	008	006	813	990 13 05 983 12 03 890 ++ 00 622 15- 18- 605 16- 19- 563 19- 28- 379 40- 47- 337 46- 315 48- 211 42- 103 50- 030 49-	315	08620	48-
	16 634++	011	010	812	003 14 05 937 09 06 920 ++ 03 834 01 01- 808 ++ 04- 760 ++ 09- 752 ++ 07- 698 08- 10- 602 14- 19- 523 ++ 29- 386 40- 46- 316 49- 298 49- 274 45- 187 42- 166 45- 095 48-	316	08600	49-
CRAWLEY 03774	02 14600	011	994	821	977 11 07 932 ++ 03 853 02 00 694 08- 17- 636 ++ 18- 589 ++ 25- 503 27- 34- 387 40- 47- 311 45- 223 42- 099 49- 071 52- 050 50-	311	08770	45-
	29 795+3	014	997	817	991 12 09 877 ++ 00 857 ++ 01 801 ++ 05- 791 ++ 04- 685 ++ 12- 678 11- 15- 640 ++ 25- 616 ++ 22- 561 20- 24- 507 ++ 29- 396 40- 44- 326 48- 244 43- 141 46- 120 50- 100 50- 071 52- 030 49-	326	08460	48- 120 15126 50-
CAMBORNE 03808	02 3856+	013	003	818	935 ++ 06 916 ++ 03 773 01- 05- 744 ++ 07- 713 06- 11- 532 ++ 32- 520 23- 29- 483 ++ 32- 447 31- 38- 375 40- 46- 290 47- 254 44- 183 45- 117 51- 105 48- 066 53- 030 51-	290	09280	47-
	02 48500	017	006	829	952 09 04 900 05 01- 818 01- 03- 735 01- 09- 784 01- 09- 759 03- 10- 735 ++ 14- 722 ++ 14- 690 ++ 18- 649 ++ 17- 632 12- 20- 608 13- 22- 445 29- 40- 386 35- 46- 366 36- 47- 352 36- 47- 301 42- 273 47- 244 50- 190 47- 124 52- 073 52-	244	10520	50-
VALENTIA 03953	02 38500	013	011	850	940 07 04 784 04- 05- 750 04- 15- 719 06- 09- 658 11- 19- 517 23- 31- 462 30- 39- 382 38- 49- 337 41- 331 40- 287 43- 147 46- 125 51- 088 49- 079 52- 057 52- 051 49- 030 52-	287	09300	43- 125 14700 51-
	02 32500	016	014	850	991 10 06 839 01- 05- 801 01- 09- 714 06- 11- 666 09- 14- 533 18- 31- 516 19- 33- 479 22- 39- 435 23- 38- 304 40- 48- 204 60- 185 53- 146 52- 097 56- 081 53- 053 56- 030 54-	204	11700	60-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 15600	012	012	857	916 03 01- 895 ++ 05- 850 ++ 08- 828 ++ 08- 795 04- 11- 739 06- 15- 720 ++ 18- 688 10- 15- 464 27- 33- 310 49- 223 45- 166 46- 155 44- 145 47- 105 48- 064 47-	310	08800	49-
	03 21501	012	012	868	918 02 00 895 01 07- 695 10- 17- 622 14- 22- 530 ++ 34- 507 23- 36- 468 27- 39- 440 27- 40- 384 ++ 39- 339 40- 45- 244 59- 212 52- 094 50- 064 48-	244	10400	59-
Ocean Weather Station 'J' 52°30'N 20°00'W	03 35500	014	014	790	941 06 03 833 00 04- 818 00 03- 792 00 07- 686 06- 09- 628 ++ 11- 613 10- 15- 585 10- 23- 539 13- 28- 470 ++ 24- 390 28- 32- 305 40- 44- 257 47- 204 59- 182 59- 173 56- 103 55- 091 57- 075 55- 032 54-	204	11800	59-
	02 7097+	011	011	725	979 09 07 905 ++ 00 835 01 02- 810 03 11- 689 01- 15- 640 04- 13- 610 07- 11- 604 ++ 10- 595 06- 10- 562 10- 16- 542 ++ 15- 526 ++ 20- 466 19- 22- 426 23- 26- 381 25- 29- 298 40- 44- 197 63- 159 56- 139 54- 093 57- 077 54- 064 55- 044 53-	197	12000	63-



STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	132246	T	340 12	+++ ++	350 14	350 11	360 07	360 07	360 06	010 06	020 13	040 19	350 02	220 06	220 07	230 11	110 06	110 07	130 11		
	140500	P	320 11	+++ ++	340 14	330 09	330 11	320 06	320 09	310 08	040 07	050 11	300 05	250 06	200 10	230 07	160 06				
	141100	T	320 15	+++ ++	320 11	310 13	290 14	290 11	280 11	290 06	250 03	010 06	230 05	240 06	220 06	210 14	160 09	P170 12	150 12		
	141700	P	360 09	+++ ++	310 12	320 07	300 12	290 14	290 12	290 11	270 09	240 09	280 12	270 12	260 11	230 11	210 06	150 03	130 08	130 15	
STORNOWAY 03026	132300	T	350 05	+++ ++	350 15	350 16	340 13	330 11	350 09	360 06	010 05	030 06	300 07								
	140500	P	310 02	+++ ++	360 12	340 13	320 12	310 11	320 10	340 05	060 14	070 17	310 13	300 14	280 15	250 08	260 08	250 06	110 11		
	141100	T	170 08	+++ ++	340 10	310 04	280 07	280 10	290 06	320 07	030 14	020 14	320 16	300 18	290 15	280 08					
	141700	P	350 13	+++ ++	310 08	280 11	280 10	270 08	270 08	280 11	290 14	310 25	310 37	300 29	290 19	270 11	240 09	160 05	150 07	140 13	
SHANWELL 03170	132300	T	320 06	+++ ++	320 14	310 11	280 12	290 14	320 12	270 08	250 14	260 09	250 08	250 10	280 10	220 06	190 08	140 07	140 13		
	140500	P	000 00	+++ ++	310 15	300 10	280 10	300 12	280 07	290 05	260 15	260 13	270 12	290 10	280 13	250 08	260 02	150 08	110 08		
	141100	T	120 05	+++ ++	120 02	300 03	310 08	310 09	310 11	300 07	240 11	270 10	300 12	300 15	280 10	200 03	210 07	150 07	120 15	P130 13	
	141700	P	140 02	+++ ++	170 03	130 01	170 03	320 02	310 07	310 11	300 16	320 13	310 25	300 22	280 18	270 12	240 06	140 05			
ALDERGROVE 03917	132300	T	310 04	+++ ++	310 18	310 15	310 16	310 16	300 15	290 10	290 10	320 10	300 25	300 20	290 21	290 07	220 06	090 01	100 11	P140 07	
	140500	P	300 05	+++ ++	300 19	290 18	290 16	300 19	300 19	300 21	310 24	310 29	310 30	310 21	300 19	270 13	260 07	120 07			
	141100	T	280 13	+++ ++	280 14	280 10	290 18	280 20	270 20	290 21	300 33	310 39	310 40	310 33	300 21	280 08	220 06	170 03	130 09		
	141700	P	250 05	+++ ++	270 12	260 16	270 18	280 14	300 15	310 23	320 36	320101	320105	310 46	300 34	270 12	260 09	140 05			
AUGHTON 03322	132300	T	240 08	+++ ++	290 13	290 16	290 14	300 11	290 12	290 11	300 16	290 15	280 18	270 21	270 18	270 10	150 02	200 03			
	140500	P	280 05	+++ ++	310 15	300 17	300 20	300 09	290 14	290 13	280 09	300 13	290 21	290 23	280 15	270 12	250 04	090 09			
	141100	T	270 11	+++ ++	280 12	280 10	290 15	310 16	300 15	280 16	300 22	320 32	300 30	300 27	280 16	230 08					
	141700	P	280 11	+++ ++	290 15	280 14	280 15	260 22	260 21	280 29	290 34	310 45	310 45	320 33	300 24	260 10	230 06	090 03			
HEMSBY 03496	132300	T	230 08	+++ ++	260 21	250 15	220 16	210 18	230 15	210 15	210 22	220 24	220 29	230 26	240 27	240 14	220 14	150 07	130 09		
	140500	F	230 06	+++ ++	240 12	250 15	250 18	260 16	270 21	300 16	290 17	260 18	240 26	240 23	240 18	240 14	250 09				
	141100	T	280 09	+++ ++	270 10	260 11	260 13	270 13	280 13	270 14	260 20	260 17	260 20	250 22	250 22						
	141700	P	260 06	+++ ++	270 10	280 09	300 06	300 06	280 10	280 18	270 20	290 26	280 24	280 24	270 18	240 12	220 10	120 06			
CRAWLEY 03774	132300	T	230 04	+++ ++	260 21	260 22	270 19	270 23	280 25	280 33	290 37	270 32	260 32	250 31	250 27	250 16	240 10				
	140500	P	250 08	+++ ++	270 25	270 25	270 26	280 27	280 24	270 22	260 23	260 28	270 29	270 31	250 19	250 18	240 11	160 11	110 12		
	141100	T	240 08	+++ ++	270 15	270 14	280 16	270 13	270 16	260 11	220 09	270 23	290 27	280 27	270 25	270 10	210 10	190 09	120 10	P150 14	
	141700	P	260 03	+++ ++	270 07	280 15	290 16	290 16	280 13	300 17	310 22	310 37	310 43	290 37	290 25	250 12	250 09				
CAMBORNE 03808	132300	T	280 14	+++ ++	290 24	290 23	280 22	270 24	270 24	280 29	290 40	290 63	290 52	290 43	280 35	280 17	290 08	250 06	100 08	P120 18	
	140500	P	260 05	+++ ++	280 24	290 23	300 21	290 20	290 27	290 32	300 57	310 71	300 63	300 51	300 27	290 20	260 07				
	141100	T	300 07	+++ ++	280 10	280 12	300 13	290 17	300 20	300 24	310 41	310 93	310 92	300 57	300 32	290 24					
	141700	P	280 10	+++ ++	280 09	280 08	290 15	290 16	290 19	300 35	320 66	320 78	320 80	310 60	300 37	310 20	270 12	340 02			
VALENTIA 03953	140000	T	290 12	290 13	+++ ++	290 18	300 20	300 20	+++ ++	310 30	310 49	310 80	+++ ++	310 62	+++ ++	310 21					
	141130	T	290 06	290 08	+++ ++	250 11	+++ ++	280 17	+++ ++	310 40	310 70	310 79	+++ ++	310 72	+++ ++	300 30	+++ ++	+++ ++	070 04		
Ocean Weather Station 'I' 59°00'N 19°00'W	132300	T	000 00	+++ ++	+++ ++	+++ ++	+++ ++	+++ ++	+++ ++	290 12	250 11	250 26	290 51	310 42	300 32	250 18	350 11	000 00	110 07		
	140500	P	225 10	+++ ++	200 06	210 06	230 05	290 10	290 09	290 14	300 33	300 90	310 83	300 37	280 23	280 15					
	141100	T	160 14	+++ ++	140 11	150 11	170 07	190 08	250 08	280 22	290 58	290 66	290 67	280 30	280 20	280 10	000 00				
	141700	P	135 20	+++ ++	150 24	150 23	160 23	160 14	170 15	200 14	260 35	270 46	270 45	280 48	260 25	280 22					
Ocean Weather Station 'J' 52°30'N 20°00'W	140100	P	270 09	+++ ++	240 05	250 08	260 09	330 11	290 30	300 41	300 44	300 57	300 66	300 66	300 40	300 24	300 13				
	140500	P	135 10	+++ ++	190 08	200 10	200 12	240 08	290 32	300 29	290 44	300 53	300 49	300 57	290 40	300 24	300 12				
	141100	T	140 20	+++ ++	160 22	190 27	220 12	240 16	280 28	270 33	280 43	280 56	260 63	270 71	270 42	300 26	280 15	330 10			
	141700	P	135 30	+++ ++	180 40	190 39	220 31	240 36	250 36	250 43	240 54	250 81	260 87	250 67	280 48	270 25					
LARKHILL 03743	140645	P	260 10	+++ ++	290 22	290 17	290 15	270 18	270 16	260 15	260 12	280 24	280 33	290 34	260 19	270 16	270 08				
	141030	P	280 11	+++ ++	280 17	280 13	270 12	300 12	310 09	310 10	320 12	300 30	290 36	290 27	270 25	280 14	220 10	240 03			

## 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
141213	54.5N 28.9W.	991 984 727	061 11 11	073- ++ ++		802 09 08	1271 05 05	1646 04 04	02 05-	2844 01- 07-	05- 08-	4054 08- 35-	12- 35-	5444 17- 45-
Cloud :— 8/8 St. 400 to 1300ft., 6/8 St. 3300 to 4000ft., 3/8 Sc. 6000 to 7000ft., 3/8 Cu. HNG to 10000ft., 2/8 Cb. HNG to 20000ft., 2/8 Ci. at 25000ft. Inversion 939mb to 900mb 9°C. to 8°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	P27000m 100 16 P25200m 140 11	
STORNOWAY 03026	345mb 090 18 205mb 240 05 25000m 130 15 27700m 130 23 09440/1 18510/5	
SHANWELL 03170	P24900m 110 09 P27700m 120 13 21300m 160 10	
ALDERGROVE 03917	27600m 090 17 22800m 120 06 P26100m 140 14 08190m 320 73 10300m 320 82 22700m 120 15 08190/0 09750/1 10300/1 10700/1 21150/9	330 108 09470m
AUGHTON 03322	038mb 120 04 23400m 120 07 087mb 260 10 21600m 150 13	
HEMSBY 03496	P26200m 130 21 20300m 160 09 103mb 260 10	
CRAWLEY 03774	057mb 220 10 24900m 110 15 20380/9 P28800m 110 10 15300m 270 16 19200m 210 08	
CAMBORNE 03808	P27900m 100 19 19800m 300 05 06650/0 14200/1 357mb 310 73 077mb 260 09 21600m 090 07 05880/0 06380/0 09990/1 11520/1 12600/1	290 64 09130m 310 72 09310m 310 107 09910m 320 91 09610m
VALENTIA 03953	940mb 290 18 658mb 300 20 287mb 310 83 147mb 300 43 057mb 280 07 801mb 290 11 666mb 280 20 146mb 310 45 053mb 270 03	310 85 09980m 310 97 10000m
Ocean Weather Station 'I' 59°00'N 19°00'W	590mb 310 11 276mb 260 37 122mb 290 23 075mb 310 10 035mb 110 09 08400m 300 61 11100m 300 59 16500m 280 12 02600/3 06900/0 12050/1 422mb 280 43 222mb 280 47 075mb 000 00 06300m 230 15 12600m 270 34 06550/0 12100/1	310 99 09300m 290 78 10260m
Ocean Weather Station 'J' 52°30'N 20°00'W	20400m 000 00 02540/2 12000/1 03600m 290 21 02890/3 03830/0 178mb 270 55 08400m 250 63 17400m 250 18 08850/0 10180/1 12950/1	290 87 11510m 270 79 11930m 250 93 09070m
LARKHILL 03743	18360/7	

## NOTES ON THE AEROLOGICAL SITUATION

The trough over the British Isles has become sharper as a ridge has developed downstream over eastern Europe and another ridge moving east over the Atlantic has also intensified. Further downstream there has been steady progression of the low near Newfoundland and the ridge over Hudson's Bay.

AVERAGE AND EXTREME VALUES 1951-55									
JUNE									
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.									
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.			Wind* V <sub>R</sub> V <sub>S</sub>			
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.		
40	22345	-48.1	-42	-55	...	...	(11)		
60	19675	-48.1	-41	-55	120	3	8		
100	16320	-48.8	-41	-56	244	5	11		
150	13660	-48.3	-41	-59	263	10	18		
200	11770	-49.8	-39	-67	271	16	27		
300	9125	-46.7	-37	-56	271	22	41		
400	7160	-32.6	-23	-44	271	18	33		
500	5555	-20.8	-11	-31	269	14	26		
700	2985	-5.2	3	-14	266	9	19		
850	1435	2.8	14	-7	269	6	18		
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)				
Average		257	-54.7		10190				
Max.		405	-40		12955				
Min.		172	-68		6890				
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 <sub>R</sub> V <sub>S</sub>			
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.		
40	22310	-49.6	-47	-57	106	9	10		
60	19675	-51.4	-45	-59	136	3	8		
100	16370	-52.6	-46	-61	251	8	13		
150	13745	-51.8	-42	-65	265	15	21		
200	11890	-54.0	-40	-65	268	20	32		
300	9265	-44.7	-36	-54	265	20	39		
400	7275	-29.6	-19	-41	265	17	31		
500	5640	-17.8	-9	-28	263	15	25		
700	3050	-2.1	7	-10	263	11	19		
850	1480	5.7	16	-3	264	7	16		
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)				
Average		234	-56.8		10950				
Max.		388	-41		13440				
Min.		160	-66		7225				
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.									
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.			Wind* V <sub>R</sub> V <sub>S</sub>			
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.		
40	(22185)	(-60.7)	...	...	120	5	11		
60	19670	-60.7	-53	-69	135	4	10		
100	16510	-62.9	-57	-71	255	21	24		
150	13995	-59.0	-51	-67	265	38	42		
200	12185	-56.6	-47	-67	275	42	47		
300	9530	-40.1	-33	-46	285	32	38		
400	7500	-23.9	-19	-29	285	27	31		
500	5835	-11.8	-8	-17	285	24	28		
700	3165	7.2	13	-1	290	18	22		
850	1535	17.9	27	8	290	9	14		
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.		
Upper		mb.	°C	mb.	mb.	°C	°C		
Lower		123	-65.7	...	73	...	-73		
		193	-59.8	266	...	-46	...		

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

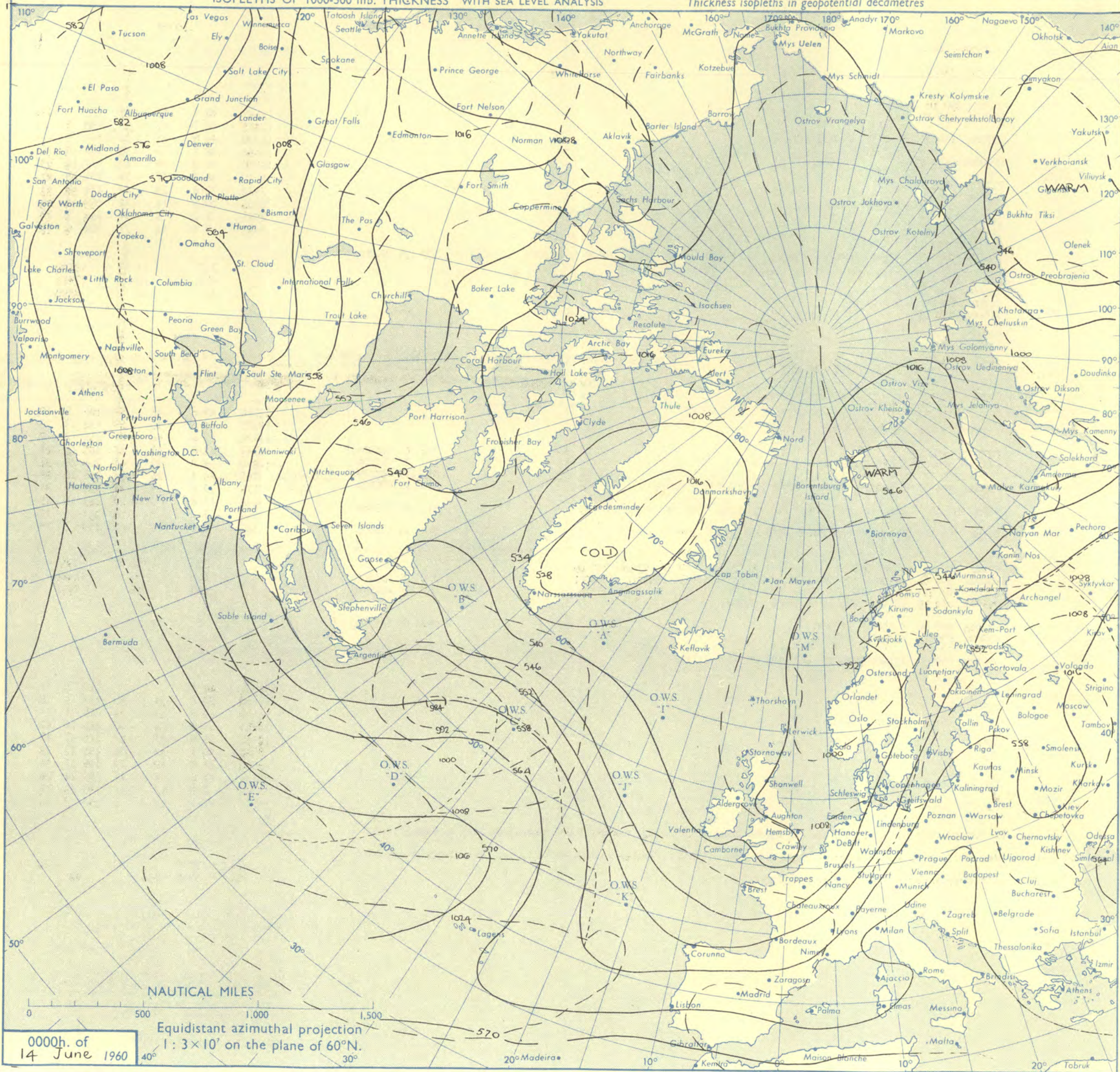
† Observations were made at Larkhill (Lat.  $51^{\circ} 12' \text{ N.}$ , Long.  $01^{\circ} 48' \text{ W.}$ ) up to 28th April, 1953.

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



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

Thickness isopleths in geopotential decametres

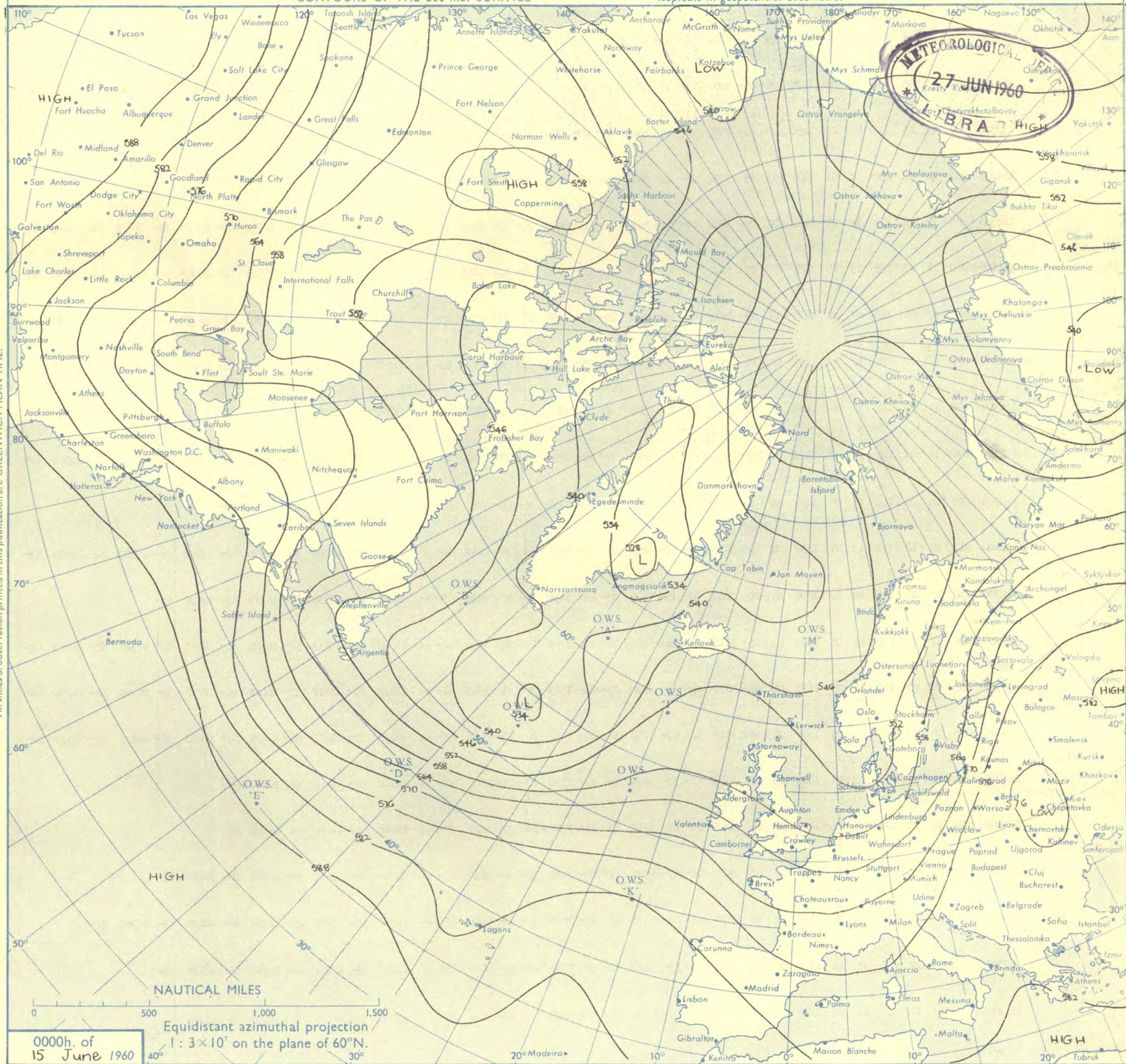




CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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

0000h. of  
15 June 1960Equidistant azimuthal projection  
1:3 x 10<sup>7</sup> 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		
LERWICK 03005	142245	082	07	06	118	07	05	1442	00	02	2979	05	13	5523	25	34	7109	36	45	9041	52	++	11710	45	13633	45	16328	47	18690	47				
	151100	082	10	05	164	09	04	1470	04	05	3001	07	17	5539	25	35	7128	35	46	9094	46	++	11740	48	13640	49	16311	50	18646	49	20861	49	24211	50
STORNOWAY 03026	142300	013	07	05	137	09	05	1456	01	04	2986	08	12	5525	23	29	7113	37	44	9086	41	++	11789	49										
	151235	013	14	09	148	11	05	1477	00	05	3024	05	11	5600	21	26	7210	32	37	9175	48	++	11701	50	13671	50	16302	50						
SHANWELL 03170	142300	005	10	09	133	10	08	1464	02	02	3003	07	12	5536	25	35	7125	37	43	9065	46	++	11751	46	13661	46	16335	49	18678	49	20890	48	24269	47
	151100	005	16	07	165	13	05	1499	01	05	3040	05	18	5610	20	25	7230	32	41	9203	46	++	11831	49	13712	50	16345	52	18663	50	20865	49	24209	49
ALDERGROVE 03917	142300	077	07	06	143	08	06	1475	01	03	3011	07	18	5568	22	37	7192	28	42	9192	43	++	11816	52	13693	51	16328	51	18649	51	20840	50	24186	50
	151100	077	17	10	156	16	09	1499	04	01	3060	02	09	5673	17	26	7308	29	34	9306	43	++	11954	52	13840	50	16471	52	18801	49	21011	49	24336	53
AUGHTON 03322	142300	056	10	08	155	12	08	1495	03	01	3035	07	13	5585	22	33	7193	33	45	9195	41	++	11860	50	13755	48	16415	51	18740	51	20934	50	24291	49
	151100	056	17	08	186	15	07	1532	03	01	3075	04	14	5666	17	27	7296	30	37	9283	45	++	11913	51	13781	52	16403	54	18723	49	20938	47	24344	42
HEMSBY 03496	142300	012	11	09	145	13	05	1491	04	01	3035	07	12	5571	25	35	7158	36	46	9099	48	++	11806	45	13722	47	16392	50						
	151100	012	16	12	199	13	07	1539	02	02	3078	07	17	5632	22	40	7254	31	36	9242	46	++	11879	50	13758	51	16390	53	18689	52	20867	52	24209	48
CRAWLEY 03774	142300	144	10	10	164	10	09	1506	04	00	3049	07	19	5596	23	42	7195	35	50	9170	43	++	11846	48	13738	50	16377	51	18698	51				
	151100	144	17	09	212	15	05	1559	03	05	3112	04	21	5701	16	24	7349	27	38	9350	44	++	11987	52	13853	52	16460	54	18755	53	20926	53	24273	47
CAMBORNE 03808	142300	088	09	08	173	11	09	1511	04	01	3070	04	09	5670	15	23	7323	26	31	9343	41	++	11978	60	13817	53	16427	54	18718	53	20889	52	24216	49
	151100	088	16	12	201	14	09	1546	06	06	3119	01	07	5750	14	40	7402	26	31	9421	41	++	12059	58	13867	56	16438	57	18693	56	20831	53	24139	52
VALENTIA 03953	150001	014	12	10	148	12	10	1485	03	06	3046	02	10	5670	15	17	7320	27	43	9340	42	++	11980	58	+++++	++	16400	56						
	151200	014	14	13	127	13	12	1487	08	06	3068	00	01	5710	13	18	7380	26	37	9410	37	43	12080	60	+++++	++	16500	58						
Ocean Weather Station 'I' 59°00'N 19°00'W	142300		11	09	050	10	08	1376	01	00	2916	06	07	5500	18	20	7130	30	34	9110	46	++	11740	50	13630	50	16280	50	18610	59				
	151100		12	11	026	++	++	1318	04	02	2870	04	06	5430	21	23	7060	30	33	9050	46	++	11730	44	13660	45	16350	48	18690	49	20900	49		
Ocean Weather Station 'J' 52°30'N 20°00'W	142300		13	12	028	13	12	1377	09	01	2968	03	23	5600	15	39	7250	27	43	9250	44	++	11910	51	13790	52	16390	55	18680	54				
	151100		13	11	025	12	10	1376	05	03	2938	04	05	5530	14	39	7180	26	40	9200	42	++	11880	48	13780	50	16410	52	18720	51				



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 784++	014 004 850	997 08 05 935 ++ 03 895 03 02- 818 ++ 03- 806 03- 05- 776 02- 10- 756 ++ 27- 748 03- 11- 728 03- 13- 700 ++ 13- 685 ++ 16- 650 ++ 15- 618 ++ 18- 570 ++ 25- 472 28- 36- 372 40- 49- 291 53- 231 45- 100 47- 058 47-	291 09240 53-				
	02 786++	020 010 908	993 07 02 835 05- 06- 803 00 15- 715 06- 16- 626 13- 21- 415 34- 45- 334 40- 50- 241 56- 214 48- 167 47- 100 50- 030 50-	241 10500 56-				
STORNOWAY 03026	01 10930	017 015 861	004 09 05 969 ++ 04 903 01 02- 794 02- 04- 631 11- 15- 578 17- 22- 418 34- 41- 392 39- 45- 375 40- 46- 359 37- 45- 212 50- 196 49-	375 07540 40- (212 11420 50-				
	02 2253+	018 016 771	999 11 05 913 ++ 02 885 ++ 03- 867 ++ 06- 848 00 05- 838 ++ 04- 830 00 07- 818 02 09- 749 ++ 16- 740 02- 12- 686 06- 11- 655 08- 11- 635 08- 12- 581 13- 16- 570 ++ 17- 546 15- 24- 510 ++ 24- 442 28- 31- 415 30- 35- 379 35- 39- 273 53- 240 56- 192 50- 120 53- 103 53- 078 50-	240 10610 56-				
SHANWELL 03170	02 755++	016 015 822	011 11 10 982 09 05 892 ++ 02 848 02 02- 789 03- 04- 773 02- 04- 753 ++ 08- 576 17- 23- 522 23- 32- 487 ++ 37- 437 31- 38- 376 40- 46- 326 46- 280 48- 148 46- 113 49- 030 47-	280 09520 48-				
	02 42500	020 019 825	010 13 05 908 05 01 821 00 08- 801 00 10- 776 ++ 13- 702 06- 18- 690 06- 19- 593 12- 25- 561 15- 27- 527 18- 24- 479 21- 26- 453 25- 30- 403 32- 41- 342 40- 46- 278 50- 241 55- 202 49- 107 52- 030 49-	241 10630 55-				
ALDERGROVE 03917	02 25500	017 008 826	985 10 07 900 ++ 03 877 ++ 02- 798 ++ 04- 790 03- 06- 750 03- 12- 733 ++ 16- 671 09- 20- 587 13- 27- 482 23- 39- 421 25- 43- 374 ++ 42- 320 ++ 47- 261 51- 214 59- 203 53- 186 50- 120 51- 039 49- 030 50-	214 11400 59-				
	02 41502	019 009 729	984 13 08 921 08 06 850 ++ 01 844 04 04- 834 04 04- 775 01 05- 744 01 07- 615 07- 10- 610 ++ 10- 586 08- 20- 580 ++ 24- 469 21- 27- 320 ++ 44- 291 45- 218 55- 175 48- 137 51- 102 52- 094 50- 050 49- 030 53-	218 11390 55-				
AUGHTON 03322	02 10940	019 012 811	007 ++ 07 998 13 09 925 08 02 879 ++ 02 782 03- 06- 762 03- 11- 740 04- 12- 722 ++ 10- 672 09- 19- 379 35- 48- 351 33- 46- 306 40- 50- 250 50- 227 53- 183 48- 108 51- 030 49-	227 11030 53-				
	03 58541	022 015 807	003 15 07 936 ++ 06 836 02 02- 770 ++ 08- 736 05- 09- 704 04- 14- 690 ++ 18- 630 07- 26- 580 11- 17- 557 11- 17- 540 13- 20- 510 ++ 27- 415 29- 36- 327 40- 47- 270 52- 255 52- 236 55- 211 55- 203 51- 188 53- 136 51- 101 55- 084 50- 036 46- 030 42-	236 10860 55-				
HEMSBY 03496		017 016 803	008 ++ 05 995 14 05 985 ++ 03 850 04 01- 794 01- 02- 748 04- 05- 669 ++ 17- 619 ++ 23- 562 ++ 27- 450 30- 41- 368 40- 50- 344 44- 293 48- 264 45- 171 45- 095 51-	293 09250 48-				
	03 52502	024 022 820	000 ++ 07 867 03 00 800 01- 07- 701 ++ 16- 692 07- 19- 672 07- 22- 591 14- 33- 476 24- 42- 465 ++ 42- 443 25- 34- 409 ++ 33- 332 40- 46- 287 48- 246 55- 203 49- 076 53- 030 48-	246 10560 55-				
CRAWLEY 03774	02 00900	020 002 797	973 12 06 848 ++ 00 820 ++ 05- 759 03- 12- 582 ++ 34- 457 27- 48- 376 38- 50- 344 39- 50- 336 38- 50- 262 50- 224 48- 091 51- 055 49-	262 10090 50-				
	02 42502	025 008 766	000 15 05 890 ++ 04 855 ++ 00 847 03 06- 827 04 10- 805 ++ 16- 786 ++ 16- 771 ++ 09- 726 03- 12- 706 ++ 20- 674 ++ 26- 592 11- 33- 570 ++ 26- 538 ++ 18- 510 ++ 22- 469 ++ 36- 463 19- 36- 412 ++ 39- 357 ++ 40- 322 ++ 46- 253 52- 224 56- 178 51- 107 54- 051 54- 030 47-	224 11230 56-				
CAMBORNE 03808	02 00902	021 010 770	998 11 09 857 04 00 820 04 03- 772 00 05- 691 05- 11- 676 05- 12- 639 09- 18- 616 ++ 24- 594 08- 26- 545 ++ 32- 479 17- 21- 440 20- 25- 371 31- 34- 322 37- 40- 303 40- 44- 234 55- 200 60- 183 54- 094 54- 030 49-	200 11978 60-				
	02 56202	024 013 684	977 12 08 928 08 04 920 ++ 04 885 ++ 02- 844 05 08- 803 03 01- 763 ++ 02- 755 01 05- 747 03 06- 724 03 09- 712 ++ 15- 698 ++ 07- 635 05- 08- 610 05- 11- 540 12- 16- 515 12- 33- 462 ++ 49- 439 22- 39- 414 24- 29- 306 40- 44- 216 58- 193 58- 184 62- 177 61- 173 58- 129 56- 083 57- 030 52-	184 12580 62-				
VALENTIA 03953	02 785++	017 016 780 730	913 06 04 798 01 04- 762 01- 04- 748 01 08- 717 01- 08- 670 02- 11- 653 03- 18- 577 08- 09- 481 16- 19- 443 21- 25- 419 24- 38- 260 49- 212 58- 177 60- 166 54- 122 54- 097 57- 066 57- 054 54- 035 54-	212 11500 58-				
	61 863++	015 014 700	970 11 10 889 11 09 766 03 02 740 02 01 660 02- 03- 564 07- 09- 493 13- 19- 448 19- 31- 356 32- 40- 332 32- 38- 304 36- 42- 198 60- 168 53- 098 58- 089 56-	198 12100 60-				
Ocean Weather Station 'I' 59°00'N 19°00'W	60 5742+	006 006 830	940 ++ 05 881 02 02 827 ++ 01- 773 ++ 04- 670 08- 09- 653 08- 09- 574 12- 13- 502 18- 20- 387 31- 35- 331 40- 44- 247 55- 231 57- 192 49- 137 50- 080 50- 056 47-	231 10700 57-				
	02 3742+	997 997 781	950 09 06 935 10 07 750 03- 05- 713 04- 06- 495 21- 23- 478 21- 23- 423 26- 28- 335 40- 44- 267 51- 207 43- 186 45- 074 50- 065 48- 056 50- 039 47-	267 09800 51-				
Ocean Weather Station 'J' 52°30'N 20°00'W	02 755++	003 003 657	980 ++ 10 895 07 05 875 10 03 848 ++ 01- 802 ++ 04- 797 06 05- 778 09 10- 726 ++ 21- 506 14- 38- 432 25- 43- 408 26- 42- 398 ++ 43- 382 ++ 39- 322 40- 47- 264 49- 210 53- 193 50- 109 55- 057 54-	210 11600 53-				
	03 874++	004 004 755	968 10 08 940 ++ 07 916 07 01 835 05 03 637 08- 09- 575 ++ 13- 548 ++ 31- 544 14- 33- 530 13- 34- 503 14- 39- 464 20- 42- 387 27- 40- 312 40- 50- 273 47- 253 49- 244 47- 224 49- 189 47- 128 52- 104 51- 093 53- 060 50-	253 10300 49-				



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	142245	T	330 05	+++ ++	320 16	310 11	290 12	290 13	300 13	300 13	270 20	260 18	280 20	300 17	270 12	220 12	200 06				
	150500	P	340 05	+++ ++	310 05	290 07	290 06	290 12	290 14	280 14	270 18	300 35	300 27	300 22	280 15	270 12	210 09	170 03			
	151100	T	160 10	+++ ++	230 10	240 09	250 07	250 09	270 15	280 16	300 26	320 60	310 61	300 30	290 24	250 14	210 06	210 09	P110 15		
	151700	P	160 15	+++ ++	170 11	230 15	230 15	220 14	240 16	270 16	290 33	290 34	290 37	280 32	280 22	280 16	240 10				
STORNOWAY 03026	142300	T	000 00	+++ ++	270 05	260 09	240 08	240 08	270 07	260 14	280 20	320 75	310 74	300 39							
	150500	P	160 07	+++ ++	210 07	230 13	240 15	240 14	240 14	290 22	290 41	300 41	300 39	290 33	290 22	280 15	260 09	170 06	130 11		
	151235	T	160 14	+++ ++	190 20	200 20	220 19	230 20	260 25	270 33	280 40	280 50	270 57	270 35	280 28	260 11					
	151700	P	170 07	+++ ++	180 24	190 28	190 27	220 23	230 32	230 37	240 49	250 65	260 74	260 39	270 28	270 23					
SHANWELL 03170	142300	T	000 00	+++ ++	270 06	290 06	280 08	280 08	290 11	310 14	330 25	320 64	320 51	310 29	280 24	270 14	180 08	140 08			
	150500	P	000 00	+++ ++	240 06	230 07	230 08	230 11	250 16	280 20	310 55	310 57	310 57	310 40	290 24	280 12	240 08	170 06			
	151100	T	230 05	+++ ++	P230 14	P240 24	P240 22	P260 18	P270 17	P300 37	290 35	270 25	270 19	290 40	290 30	270 20	220 04	150 05	190 06	P140 11	
	151700	P	200 04	+++ ++	220 18	220 21	220 19	240 20	270 19	260 36	280 49	290 51	290 72	290 54	290 36	280 16	260 13				
ALDERGROVE 03917	142300	T	000 00	+++ ++	240 10	260 13	260 15	270 13	290 15	310 26	310 54	320 63	310 70	310 52	300 32	280 20	260 09	160 04	150 07		
	150500	P	000 00	+++ ++	200 15	220 13	240 14	250 16	260 22	300 40	290 52	290 43	290 52	300 47	300 32	290 20	210 07	250 04	130 10	130 10	
	151100	T	190 14	+++ ++	200 18	210 21	220 16	240 15	270 24	270 35	290 37	280 57	290 90	290 57	290 35	270 22	250 09	160 05	150 15		
	151700	P	170 15	+++ ++	190 36	220 36	220 33	240 30	240 35	260 37	260 42	270 70	280 78	280 81	290 33	270 25	240 07	190 03			
AUGHTON 03322	142300	T	000 00	+++ ++	260 12	280 09	290 10	280 16	290 19	310 29	320 40	320 92	310 85	310 55	310 34	290 20	230 06	060 01	030 03		
	150500	P	150 06	+++ ++	240 07	240 12	250 15	260 12	300 19	310 34	320 54	310 49	300 53	310 44	300 33	310 15	250 08	310 15	140 06		
	151100	T	230 08	+++ ++	230 10	220 10	240 17	260 17	280 20	300 42	290 47	300 57	310 81	300 60	300 40	290 18	250 10	170 08	130 11		
	151700	P	000 00	+++ ++	200 10	200 18	210 18	260 24	280 24	280 31	290 31	290 66	290 74	300 72	300 36	290 15	270 12				
HEMSBY 03496	142300	T	250 06	+++ ++	280 13	280 10	280 09	290 08	290 12	270 19	280 34	290 37	310 40	290 30	290 21	270 15					
	150500	P	270 03	+++ ++	310 12	280 18	270 17	260 11	290 17	320 25	320 58	320 92	320 73	310 41	290 26	270 09	230 06	130 12			
	151100	T	040 10	+++ ++	260 09	260 10	260 15	270 15	280 14	310 26	310 55	310 54	310 49	310 45	300 33	300 12	260 06	250 06	130 15		
	151700	P	160 10	+++ ++	210 13	240 11	250 12	270 12	300 25	310 35	310 47	320 67	320 95	310 66	310 36	300 19	260 10	300 02	150 06	080 13	
CRAWLEY 03774	142240	P	210 02	+++ ++	300 07	290 12	270 10	270 13	280 19	290 24	300 34	330100	320 86	310 46	300 25	280 20	260 14	310 08	120 16	110 12	090 15
	150500	P	000 00	+++ ++	280 09	260 12	290 11	280 13	290 18	310 35	310 59	310 57	310 63	310 49	310 32	280 18	280 04				
	151047	P	260 10	+++ ++	250 10	250 09	260 10	290 17	300 19	320 37	320 55	300 63	310 76	310 49	310 34	290 23	280 06	120 09	110 16	110 15	
	151700	P	200 07	+++ ++	240 10	260 12	260 13	280 20	300 28	300 27	310 41	320 71	310 81	320 89	310 40	310 21	280 09	100 03	150 06		
CAMBORNE 03808	142300	T	170 04	+++ ++	270 08	270 07	280 11	270 14	290 22	300 40	310 45	310 66	310 79	310 72	310 37	310 22	300 04	120 03	140 13	P120 14	
	150500	P	150 07	+++ ++	230 10	230 10	240 13	260 16	290 26	310 28	310 42	310 57	310 85	310 64	300 35	300 22	300 09	000 00	130 10		
	151100	T	190 13	+++ ++	200 15	200 17	240 18	260 15	280 21	270 22	300 45	300 66	310 78	310 66	300 43	310 17	290 07	200 05	100 10	P150 16	
	151700	P	170 18	+++ ++	200 29	230 22	260 20	270 24	260 30	280 26	270 40	280 53	300 68	300 73	300 40	300 22	290 08	270 06			
VALENTIA 03953	150001	T	180 09	180 11	+++ ++	200 20	+++ ++	250 19	+++ ++	290 35	290 43	290 63	+++ ++	290 80							
	151200	P	180 20	+++ ++	210 28	220 32	230 32	250 36	240 34	270 35	260 51	260 70	270 82	270 66	280 37	250 07					
Ocean Weather Station 'I' 59°00'N 19°00'W	142300	T	160 30	+++ ++	130 34	140 27	150 32	150 35	200 29	220 23	200 19	190 19	190 21	220 17	260 30	250 14	260 08				
	150500	P	090 40	+++ ++	140 55	170 45	180 34	170 33	180 32	160 30	160 36	120 39	140 18	230 32	240 29	240 24					
	151100	T	150 24	+++ ++	180 26	190 26	190 32	190 34	190 56	180 39	190 28	190 36	150 32	170 23	230 29	240 27	180 13	250 17			
	151700	P	180 20	+++ ++	190 27	190 29	190 27	200 33	180 29	170 27	200 23	260 57	200 29	220 31	230 23	230 20					
Ocean Weather Station 'J' 52°30'N 20°00'W	142300	T	220 17	+++ ++	230 29	230 28	220 33	230 36	230 42	240 54	250 65	250 84	250102	260 71	270 45	270 19	280 10				
	150500	P	225 20	+++ ++	240 30	240 30	240 35	220 38	230 45	230 56	230 72	250100	260115	250 60	250 39	300 33	240 09				
	151100	T	200 20	+++ ++	230 34	230 36	240 34	240 48	230 70	240 82	250107	250107	250105	240 80	240 47	240 29	240 11				
	151700	P	225 20	+++ ++	230 30	230 42	230 43	240 48	250 60	250 69	250 84	260104	240 96	250 75	250 49	210 54					
LARKHILL 03743	150630	P	250 02	+++ ++	260 07	280 07	270 13	290 16	300 21	310 39	310 48	300 48	310 60	300 51	310 36	310 19	300 09	030 06	100 07	100 16	
	151040	T	200 06	+++ ++	230 10	240 11	280 15	270 16	300 25	320 36	300 46	310 60	310 90	310 70	310 37	300 17	300 10				

## AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :—														
Inversion Levels :—														
Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :—														
Inversion Levels :—														
Isothermal Levels :—														
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	062mb 340 03 23100m 140 15 236mb 310 44 P.25200m 130 14 19800m 200 05 04880/3	320 66 10070m
STORNOWAY 03026	370mb 310 46 26200m 110 15 06460/0 085mb 240 09 17800m 250 15 09200/0 09700/1 11460/1	320 77 09340m 270 64 10400m 250 80 09900m
SHANWELL 03170	334mb 320 39 031mb 140 09 06360m 300 39 23500m 110 09 06850/0 P.05100m 310 30 27700m 090 14 28800m 140 15 04640/3 27200/5 28050/2 20100m 080 06 04940/0 06810/0 09330/0 11410/1 11940/1	320 68 09380m 320 63 09570m 290 78 09600m
ALDERGROVE 03917	456mb 310 40 P.25800m 140 12 27300m 140 13 P.25800m 170 07 12900m 280 49	310 73 10530m 290 99 10040m 280 93 11390m
AUGHTON 03322	359mb 320 70 11590/1 P.25200m 170 09 19800m 290 03 08140/0 10890/0 11480/1	310 96 10170m 310 91 10610m 290 96 11190m
HEMSBY 03496	06250m 320 40 10900m 310 54 22700m 130 05 06250/0 07150/0 07600/0 08050/0 10450/1 10900/1 P.26400m 100 15 12900m 310 43 02800/2 09380/0 09870/0 10840/1 11880/1	330 94 09250m 320 94 10090m
CRAWLEY 03774	28800m 110 09 33000m 100 18 35100m 09019 08240/0 08900/0 09250/0 10300/1 11030/1 19500m 200 05 05450/0 06200/0 07000/0 12000/1 19000/5 27600m 120 15 05100/0 11620/1 12100/1 15710/7 20180/9 21000/2 22210/9 25800m 080 10 08270/0 12800/1	320 108 09800m 310 66 10800m 310 77 10890m 310 94 11550m
CAMBORNE 03808	P.26700m 120 14 24300m 130 10 10540/0 11500/1 460mb 280 34 118mb 300 29 27300m 110 18 13000m 300 60 21600m 190 03 09810/0 13000/1 13950/1	300 90 11760m 310 91 10790m 300 80 10410m 300 74 11070m
VALENTIA 03953	913mb 190 18 748mb 230 18 260mb 290 75 177mb 290 66 00300m 190 30 00600m 200 28 18000m 220 04 18900m 120 03	290 82 11780m 270 83 10310m
Ocean Weather Station 'I' 59°00'N 19°00'W	624mb 180 35 231mb 190 18 075mb 250 10 11400m 200 18 17100m 240 25 01320/1 07470/5 11000/3 657mb 180 46 181mb 200 23 075mb 170 17 07800m 230 35 09600m 250 40 07800/3 08420/3 09390/7	260 61 09130m
Ocean Weather Station 'J' 52°30'N 20°00'W	214mb 250 84 129mb 270 32 061mb 280 08 10800m 260 19 15000m 270 34 17100m 270 22 19800m 240 08 08700/0 11400/1 623mb 230 60 183mb 240 66 064mb 240 11 15300m 230 48 17700m 230 21 07230/0 10440/1 15400/5	250 111 10290m 260 122 11190m 250 111 08890m 260 111 09000m
LARKHILL 03743		310 60 10500m 310 96 10710m

## NOTES ON THE AEROLOGICAL SITUATION

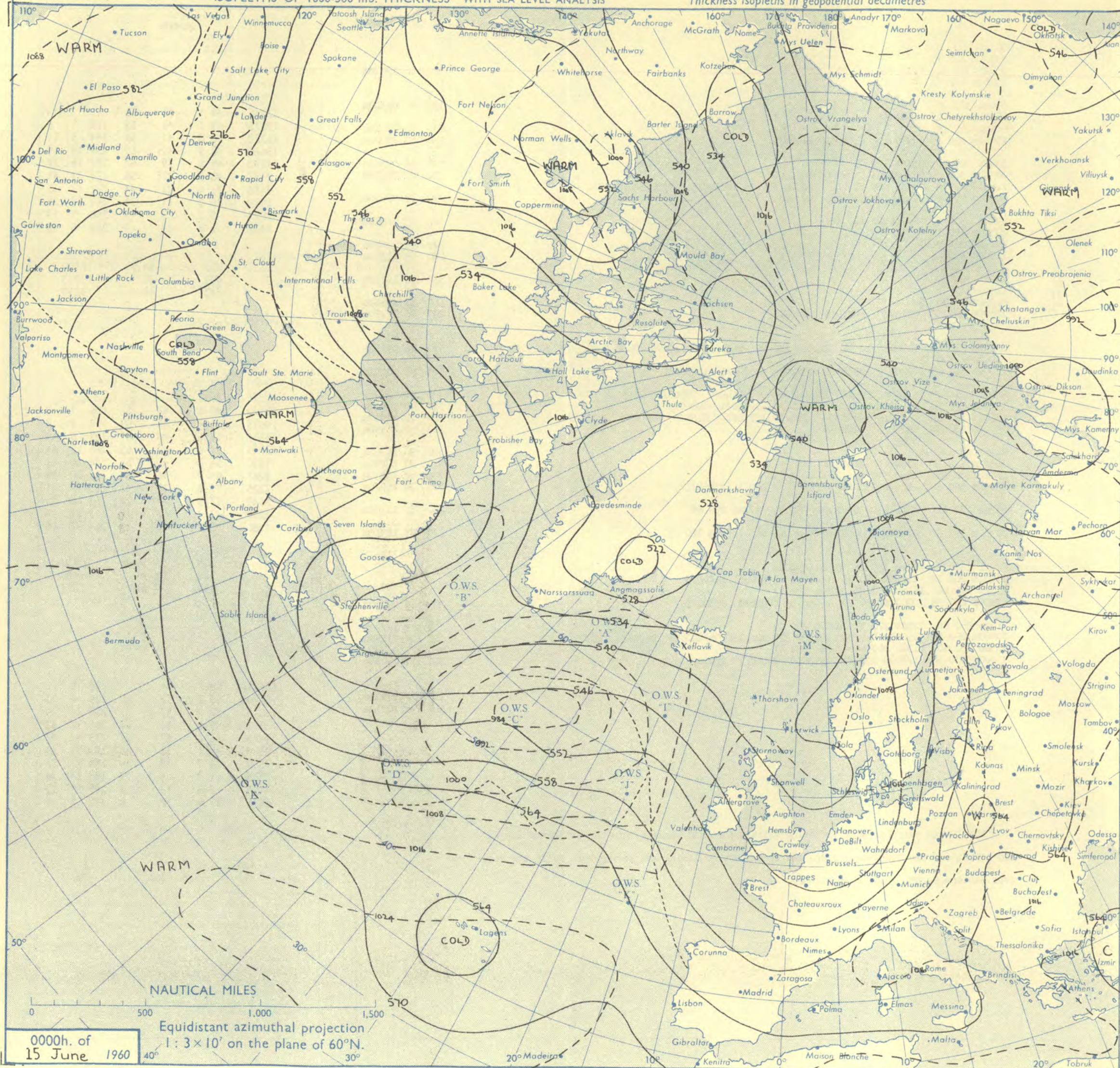
The trough over Labrador is moving quickly east and running into the deepening low in mid-Atlantic. The downstream ridge and trough are declining and moving east while the ridge over eastern Europe remains stationary.

AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
<b>LERWICK</b> (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		V <sub>S</sub>
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	120	3	8
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)	Height (gpm.)			
Average		257	-54.7	10190			
Max.		405	-40	12955			
Min.		172	-68	6890			
<b>LARKHILL/CRAWLEY</b> † 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 <sub>S</sub>
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)	Height (gpm.)			
Average		234	-56.8	10950			
Max.		388	-41	13440			
Min.		160	-66	7225			
<b>MALTA</b> (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		V <sub>S</sub>
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropopause		Average	Max.	Min.	Max.	Min.	
		Press.	Temp.	Press.	Press.	Temp.	Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		123	-65.7	...	73	...	-73
		193	-59.8	266	...	-46	...
* V <sub>R</sub> = Vector average wind. V <sub>S</sub> = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h. † Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953. Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.							



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

Thickness isopleths in geopotential decametres



0000h. of  
15 June 1960

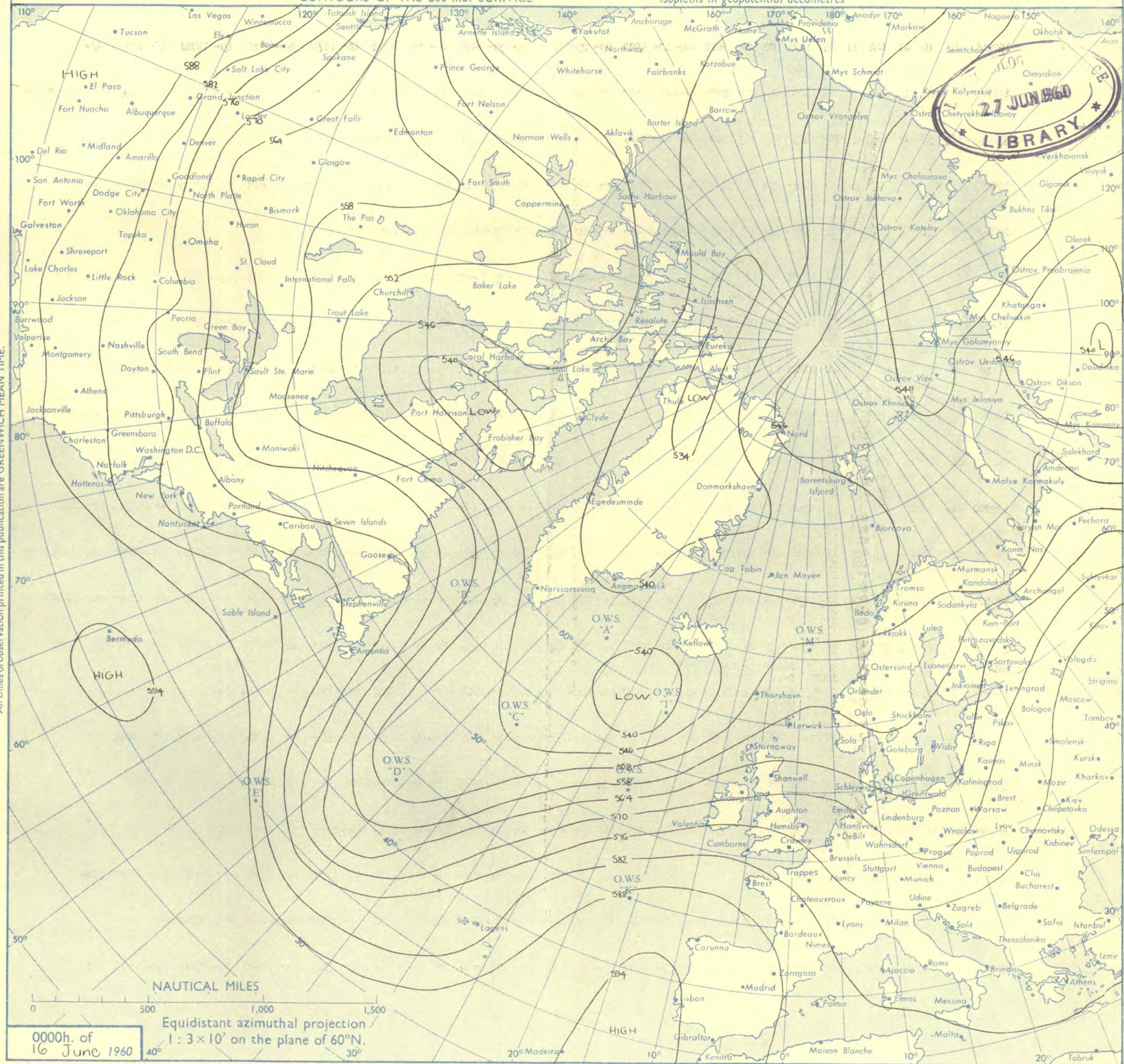
Equidistant azimuthal projection  
1:3 x 10<sup>7</sup> on the plane of 60°N.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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





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	152245	082	10 09	144	11 09	1475	02 02-	3018	04- 17-	5595	20- 23-	7211	31- 39-	9186	46- ++	11828	48- 13731	48- 16393	49- 18741	46- 20970	46-							
	161100	082	14 12	091	14 12	1430	04 01	2985	04- 07-	5558	20- 27-	7179	30- 39-	9164	45- ++	11854	45- 13774	47- 16435	51- 18775	49- 20990	48- 24360	47-						
STORNOWAY 03026	152300	013	12 11	086	11 10	1433	05 03	2992	04- 08-	5586	19- 23-	7210	31- 35-	9191	44- ++	11887	46- 13807	48-										
	161106	013	16 14	085	14 12	1431	05 03	3000	01- 09-	5605	18- 24-	7240	28- 33-	9245	42- ++	11896	50- 13783	49- 16437	50- 18766	50- 20986	46-							
SHANWELL 03170	152300	005	12 10	141	11 09	1483	05 03	3055	01- 03-	5683	15- 20-	7333	27- 33-	9349	41- ++	12021	46- 13929	49-										
	161100	005	19 14	122	16 09	1476	05 03	3055	03 11-	5701	15- 31-	7343	27- 33-	9363	40- 46-	12008	55- 13884	50- 16507	53- 18820	50- 21032	47- 24419	47-						
ALDERGROVE 03917	152300	077	14 13	125	14 13	1479	09 03	3061	01 04-	5689	15- 27-	7331	29- 33-	9336	43- ++	11999	49- 13890	50- 16503	54- 18806	51- 21004	49-							
	161100	077	18 12	147	16 11	1502	11 15-	3102	05 32-	5762	14- 17-	7431	24- 26-	9480	38- 41-	12160	58- 13978	54- 16587	56- 18860	55- 21027	52- 24351	51-						
AUGHTON 03322	152300	056	15 10	175	13 10	1526	07 05	3103	00 03-	5732	15- 34-	7377	27- 41-	9396	42- ++	12031	55- 13877	53- 16475	55- 18760	50- 20944	50-							
	161100	056	17 13	175	15 12	1534	09 07	3116	04 29-	5764	15- 40-	7427	23- 36-	9466	39- 50-	12111	60- 13922	54- 16518	57- 18792	54- 20973	49-							
HEMSBY 03496	152300	012	13 10	207	15 10	1560	05 02	3119	01- 10-	5740	15- 26-	7386	27- 35-	9398	41- ++	12036	57- 13881	53- 16476	55- 18761	54- 20931	52- 24251	50-						
	161100	012	19 13	195	16 11	1554	09 00	3144	02 01-	5771	17- 33-	7411	27- 38-	9424	41- ++	10639	50- 13879	55- 16450	58- 18699	56- 20839	55- 24104	53-						
CRAWLEY 03774	152300	144	11 09	221	12 07	1570	06 00	3145	01 08-	5775	14- 17- 7430	25- 31-	9459	40- 46-	12107	58- 13918	58- 16473	58- 18743	56- 20899	54- 24197	52-							
	161100	144	16 14	220	14 13	1582	12 04	3184	03 00	5829	14- 30-	7498	23- 32-	9545	38- 45-	12193	61- 14016	54- 16587	59- 18844	56- 21007	53- 24345	47-						
CAMBORNE 03808	152300	088	14 14	195	13 12	1559	09 07	3155	03 02-	5807	13- 16-	7474	24- 28-	9513	39- 45-	12172	59- 13975	58- 16519	60-									
	161100	088	16 16	216	15 14	1587	11 10	3199	06 14-	5878	09- 15-	7573	20- 29-	9642	35- 45-	12337	57- 14134	58- 16685	56- 18935	56- 21094	52-							
VALENTIA 03953	152330	014	14 14	143	14 14	1510	10 09	3110	02 01	5760	14- 28-	7410	24- 33-	9460	37- 45-	12140	58- +++++	++	16550	55-								
	161205	014	16 15	190	13 12	1552	09 06	3158	05 07-	5830	11- 24-	7500	24- 33-	9540	39- 43-	12190	59- +++++	++	16510	59-								
Ocean Weather Station 'I' 59°00'N 19°00'W	152300		11 10	040- ++ ++	1295	03 03	2844	05- 06-	5410	19- 21-	7030	33- 37-	8990	45- ++	11710	44- 13640	47- 16290	50- 18610	51- 20800	50-								
	161100		11 10	010- ++ ++	1329	03 02	2883	01- 05-	5490	16- 24-	7130	28- 45-	9130	43- ++	11844	47- 13740	48- 16410	50- 18740	50-									
Ocean Weather Station 'J' 52°30'N 20°00'W	152300		13 09	056	13 09	1395	06 00	2989	06 31-	5650	12- 33-	7320	24- 40-	9370	37- 47-	12040	47- 13890	51- 16500	54- 18790	54- 20960	51-							
	161100		13 12	102	12 10	1456	08 06	3049	04 18-	5710	12- 23-	7370	24- 30-	9400	40- ++	12050	58- 13870	57-										



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	01 6557+	017 007 812	002 11 09 910 05 04 870 ++ 03- 840 ++ 02- 829 ++ 04- 790 ++ 03- 762 03- 09- 752 02- 10- 660 07- 21- 625 ++ 12- 590 11- 15- 560 13- 21- 501 ++ 23- 430 28- 32- 392 32- 41- 340 40- 50- 243 54- 211 49- 185 47- 100 49- 036 46-	243 10570 54-				
	02 4243+	011 001 763	999 ++ 11 978 10 08 903 06 04 849 04 01 797 01 02- 786 02 01- 690 05- 08- 674 ++ 11- 494 21- 28- 392 31- 40- 330 40- 49- 285 47- 174 45- 100 51- 095 49- 030 47-	285 09490 47-				
STORNOWAY 03026		010 009 770	871 07 05 805 01 01- 793 01 02- 767 ++ 03- 750 ++ 03- 701 04- 08- 625 07- 10- 478 21- 26- 335 40- 44- 317 43- 251 48- 214 44- 202 46- 171 44- 149 48- 112 50-	251 10380 48- 149 13860 48-				
	50 564++	010 008 714	992 12 10 875 07 05 821 02 01 816 ++ 01 801 03 08- 760 02 04- 738 ++ 09- 684 02- 09- 662 ++ 09- 649 05- 13- 625 05- 17- 589 ++ 30- 534 15- 23- 473 ++ 25- 403 27- 32- 310 40- 45- 242 53- 229 55- 194 49- 093 51- 033 44-	229 11030 55-				
SHANWELL 03170	63 873++	017 016 710	908 07 06 833 05 03 767 01 01- 712 00 02- 600 06- 09- 495 15- 20- 307 40- 46- 227 54- 194 45- 149 49- 104 51-	227 11210 54- 149 13970 49-				
	15 42571	014 013 640	998 16 09 925 10 08 904 ++ 06 872 ++ 04 804 02 00 781 ++ 07- 758 04 03- 749 05 03- 714 04 13- 694 02 11- 612 ++ 24- 581 04- 26- 452 22- 33- 398 27- 33- 302 40- 46- 215 58- 176 49- 098 53- 046 46- 030 47-	215 11540 58-				
ALDERGROVE 03917	21 782++	015 006 685	996 14 13 925 ++ 08 899 09 03 871 ++ 01- 866 10 00 835 ++ 05 768 03 01 748 ++ 01 720 03 03- 667 02- 03- 667 02- 03- 583 ++ 08- 543 ++ 23- 532 11- 23- 512 ++ 26- 392 30- 33- 338 35- 38- 316 ++ 43- 310 41- 257 51- 243 52- 220 49- 162 49- 107 55- 081 52- 039 48- 033 49-	243 10720 52-				
	02 58536	017 008 611	993 15 10 929 10 08 906 ++ 07 884 08 01 866 11 04- 850 ++ 15- 842 11 17- 722 ++ 31- 608 00 23- 593 ++ 21- 569 ++ 30- 543 09- 18- 520 ++ 14- 495 14- 17- 448 17- 19- 399 24- 26- 299 38- 41- 193 60- 139 52- 100 56- 030 51-	193 12380 60-				
AUGHTON 03322	61 8052+	021 014 700	009 13 09 919 09 06 884 08 06 817 05 03 791 05 03 662 03- 06- 635 03- 06- 560 10- 14- 516 13- 30- 488 16- 36- 423 25- 42- 361 31- 41- 309 40- 50- 231 56- 220 54- 208 57- 177 53- 098 56- 047 48-	231 11120 56-				
	60 855++	021 014 628	006 15 12 950 11 09 887 10 08 796 06 04 786 04 01 770 ++ 14- 738 05 20- 650 02 34- 496 15- 40- 469 18- 36- 449 17- 32- 295 40- 50- 208 59- 192 61- 148 54- 125 53- 098 58- 089 54- 085 56- 048 49-	192 12370 61- 098 16640 58-				
HEMSBY 03496	02 10961	025 023 762	993 15 10 980 ++ 08 867 06 03 846 ++ 02 828 ++ 02- 736 02- 06- 709 01- 12- 670 ++ 05- 621 05- 09- 592 ++ 20- 572 08- 23- 562 ++ 25- 533 ++ 23- 512 ++ 29- 469 ++ 24- 442 22- 26- 410 ++ 33- 371 ++ 40- 341 35- 40- 341 35- 40- 305 40- 44- 245 52- 214 58- 171 53- 101 55- 030 50-	214 11600 58-				
	02 11502	023 021 678	011 17 11 956 12 10 930 13 10 880 ++ 08 871 09 06 850 09 00 828 09 01- 790 ++ 00 773 ++ 05- 747 ++ 01 719 ++ 01 687 01 04- 659 02- 07- 651 03- 09- 627 03- 22- 542 11- 31- 465 21- 35- 434 23- 40- 407 ++ 39- 304 40- 47- 206 61- 180 60- 166 54- 099 59- 030 53-	206 11880 61-				
CRAWLEY 03774	02 8097+	027 009 690	993 13 05 990 ++ 03 904 ++ 06 834 05 03- 819 05 05- 784 03 05- 772 ++ 03- 759 02 02- 744 03 07- 710 ++ 14- 684 ++ 03- 614 06- 09- 570 ++ 14- 541 ++ 14- 488 15- 19- 476 ++ 23- 367 29- 35- 300 ++ 46- 222 56- 189 59- 098 58 030 52-	189 12440 59-				
	02 862++	026 009 643	992 13 12 942 11 10 928 13 11 895 ++ 03 880 ++ 05 875 11 04 866 ++ 01 857 12 03 828 ++ 07 777 09 02- 762 ++ 03- 755 ++ 12- 741 ++ 12- 706 ++ 01 690 02 00 645 00 05- 617 ++ 08- 586 05- 24- 496 15- 32- 486 14- 34- 465 ++ 37- 435 18- 32- 357 ++ 34- 291 ++ 46- 280 42- 200 61- 152 54- 115 58- 097 59- 030 47-	200 12193 61-				
CAMBORNE 03808	59 862++	023 013 658	889 11 09 838 ++ 06 777 06 14- 771 07 11- 726 05 01 709 04 00 677 ++ 03- 645 ++ 04- 505 13- 16- 468 16- 19- 430 20- 24- 307 38- 43- 245 50- 232 52- 190 61- 184 59- 086 60-	190 12480 61-				
	20 862++	026 015 612	973 14 13 884 12 11 858 12 11 823 ++ 08 814 ++ 04 795 10 01 778 ++ 12- 771 11 08- 759 ++ 04- 747 ++ 06 736 ++ 09- 706 06 08- 700 ++ 14- 695 06- 13- 633 ++ 15- 615 ++ 09- 553 ++ 10- 426 17- 25- 360 ++ 32- 354 ++ 36- 298 35- 45- 277 40- 50- 254 46- 201 56- 167 63- 148 57- 086 59- 061 53- 040 51-	167 13470 63-				
VALENTIA 03953	61 862++	017 015 666	929 12 11 915 13 12 753 06 05 666 00 01- 617 02- 24- 597 03- 25- 449 21- 29- 425 21- 29- 343 30- 39- 198 59- 186 56- 174 56- 163 53- 113 58- 110 56- 092 58- 082 58- 078 56-	198 12200 59-				
	50 863++	022 021 635	993 13 12 942 12 11 853 08 05 844 10 06 797 09 00 776 10 07- 750 08 02- 713 06 14- 588 02- 17- 532 09- 14- 484 12- 24- 332 33- 38- 235 52- 209 58- 183 62- 158 64- 148 59- 093 58- 076 59-	158 13600 64-				
Ocean Weather Station 'I' 59°00'N 19°00'W	60 4567+	995 995 799	846 03 03 715 04- 05- 522 19- 20- 503 19- 21- 382 35- 39- 348 40- 43- 319 44- 265 46- 238 44- 170 45- 112 51- 043 50-	319 08600 44-				
	01 2847+	999 999 798	863 03 02 788 01- 02- 748 01- 05- 727 02- 05- 710 ++ 07- 705 01- 05- 690 02- 01- 654 ++ 12- 628 ++ 10- 590 09- 22- 520 05- 20- 506 ++ 23- 497 17- 28- 475 19- 34- 372 31- 48- 330 39- 50- 271 45- 297 48- 179 46- 087 50- 083 48- 065 50- 055 48-	271 09800 45-				
Ocean Weather Station 'J' 52°30'N 20°00'W	02 856++	007 007 622	917 06 03 880 05 02 803 09 03- 766 06 14- 733 08 21- 698 06 31- 682 06 31- 524 10- 34- 444 17- 37- 399 24- 40- 357 ++ 36- 326 32- 40- 287 40- 50- 245 49- 186 50- 171 51- 143 50- 130 54- 096 55- 040 50-	186 12500 60- 130 14800 54-				
	02 855++	012 012 630	993 11 09 969 ++ 07- 918 09 07 883 10 08 824 06 04 782 06 02 749 ++ 02 744 04 03 712 05 17- 630 00 22- 572 ++ 18- 549 ++ 23- 460 16- 27- 302 40- 46- 234 53- 203 58- 191 58- 104 55-	203 11900 58-				



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :—														
Inversion Levels :—														
Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :—														
Inversion Levels :—														
Isothermal Levels :—														
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	040mb 060 03 29700m 080 15  08120/0 11000/1	280 64 09740m 280 102 09770m
STORNOWAY 03026	126mb 260 29 13100m 270 39 19000m 220 06 05775/0 09530/0 10630/1 113mb 270 31 04870/0 06560/0 13010/1 13590/1	280 85 09700m 280 111 10800m 280 106 10080m
SHANWELL 03170	109mb 310 22 13020m 280 51 035mb 100 07 180mb 290 57 19500m 260 06 26300m 100 11	270 68 10740m 280 75 09700m 290 106 10610m 290 95 12500m
ALDERGROVE 03917	038mb 090 09 07040/0 10500/1 12150/1 13620/1 17290/1 19730/8 P27700m 090 21 22250m 120 08	250 77 10820m 290 111 10220m 280 82 11420m 280 62 03890m
AUGHTON 03322	184mb 290 55 21300m 020 06 125mb 280 25 13680/1 14280/1	280 74 11380m 310 99 09930m 300 77 09800m 290 63 12860m
HEMSBY 03496	P26400m 090 15 17700m 320 13 354mb 320 65 176mb 320 61 P25200m 090 18 320 50 13330m 12850/1 13750/1	300 81 11300m 300 68 11120m 310 96 10720m 310 71 12090m
CRAWLEY 03774	169mb 300 49 22500m 090 16 09150/0 12000/1 12420/1 19570/8 28800m 090 28 06260/0 08430/0 11490/0 11990/1 12970/1 14180/1 19780/8 13670/1 16450/1	310 91 11970m 310 90 11730m 320 89 11720m 320 61 11780m
CAMBORNE 03808	21600m 150 07 14700m 290 49 01180/2 08590/0 13420/1 13900/1 20250/8 P25200m 080 19 22800m 140 19 13300/1	290 85 11480m 300 78 12060m
VALENTIA 03953	915mb 230 30 753mb 250 43 597mb 260 48  18000m 250 08 25800m 100 17	290 98 09410m
Ocean Weather Station 'I' 59°00'N 19°00'W	075mb 240 12 047mb 250 07 03380/3 08450/0	
Ocean Weather Station 'J' 52°30'N 20°00'W	161mb 240 68 112mb 230 42 044mb 230 12 13500m 240 58 17400m 240 18 01090/1 04130/1 12950/0 14400/0 110mb 210 21	250 117 08680m 240 81 10520m 230 66 08110m 200 68 07720m
LARKHILL 03743	22860m 100 15 06550/0	310 87 11770m 310 75 12680m

## NOTES ON THE AEROLOGICAL SITUATION

The mid-Atlantic trough has increased considerably in amplitude as the trough which extended southwest towards Newfoundland moved quickly east. Southwesterly flow now extends from west of the Azores to the weak trough and ridge over northwestern Europe. Over America the flow remains broadly westerly with progressing troughs and ridges.

AVERAGE AND EXTREME VALUES 1951-55								
JUNE								
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.								
Press. Level	Average		Extreme Temps.			Wind*		
	Height	Temp.	Max.	Min.		V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	22345	-48.1	-42	-55		...	...	(11)
60	19675	-48.1	-41	-55		120	3	8
100	16320	-48.8	-41	-56		244	5	11
150	13660	-48.3	-41	-59		263	10	18
200	11770	-49.8	-39	-67		271	16	27
300	9125	-46.7	-37	-56		271	22	41
400	7160	-32.6	-23	-44		271	18	33
500	5555	-20.8	-11	-31		269	14	26
700	2985	-5.2	3	-14		266	9	19
850	1435	2.8	14	-7		269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)			
Average		257	-54.7		10190			
Max.		405	-40		12955			
Min.		172	-68		6890			
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 <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	22310	-49.6	-47	-57		106	9	10
60	19675	-51.4	-45	-59		136	3	8
100	16370	-52.6	-46	-61		251	8	13
150	13745	-51.8	-42	-65		265	15	21
200	11890	-54.0	-40	-65		268	20	32
300	9265	-44.7	-36	-54		265	20	39
400	7275	-29.6	-19	-41		265	17	31
500	5640	-17.8	-9	-28		263	15	25
700	3050	-2.1	7	-10		263	11	19
850	1480	5.7	16	-3		264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)			
Average		234	-56.8		10950			
Max.		388	-41		13440			
Min.		160	-66		7225			
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.								
Press. Level	Average		Extreme Temps.			Wind*		
	Height	Temp.	Max.	Min.		V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	(22185)	(-60.7)	...	...		120	5	11
60	19670	-60.7	-53	-69		135	4	10
100	16510	-62.9	-57	-71		255	21	24
150	13995	-59.0	-51	-67		265	38	42
200	12185	-56.6	-47	-67		275	42	47
300	9530	-40.1	-33	-46		285	32	38
400	7500	-23.9	-19	-29		285	27	31
500	5835	-11.8	-8	-17		285	24	28
700	3165	7.2	13	-1		290	18	22
850	1535	17.9	27	8		290	9	14
Tropo- pause		Average	Max.	Min.	Max.	Min.		
		Press.	Temp.	Press.	Press.	Temp.	Temp.	
		mb.	°C	mb.	mb.	°C	°C	
Upper		123	-65.7	...	73	...	-73	
Lower		193	-59.8	266	...	-46	...	

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

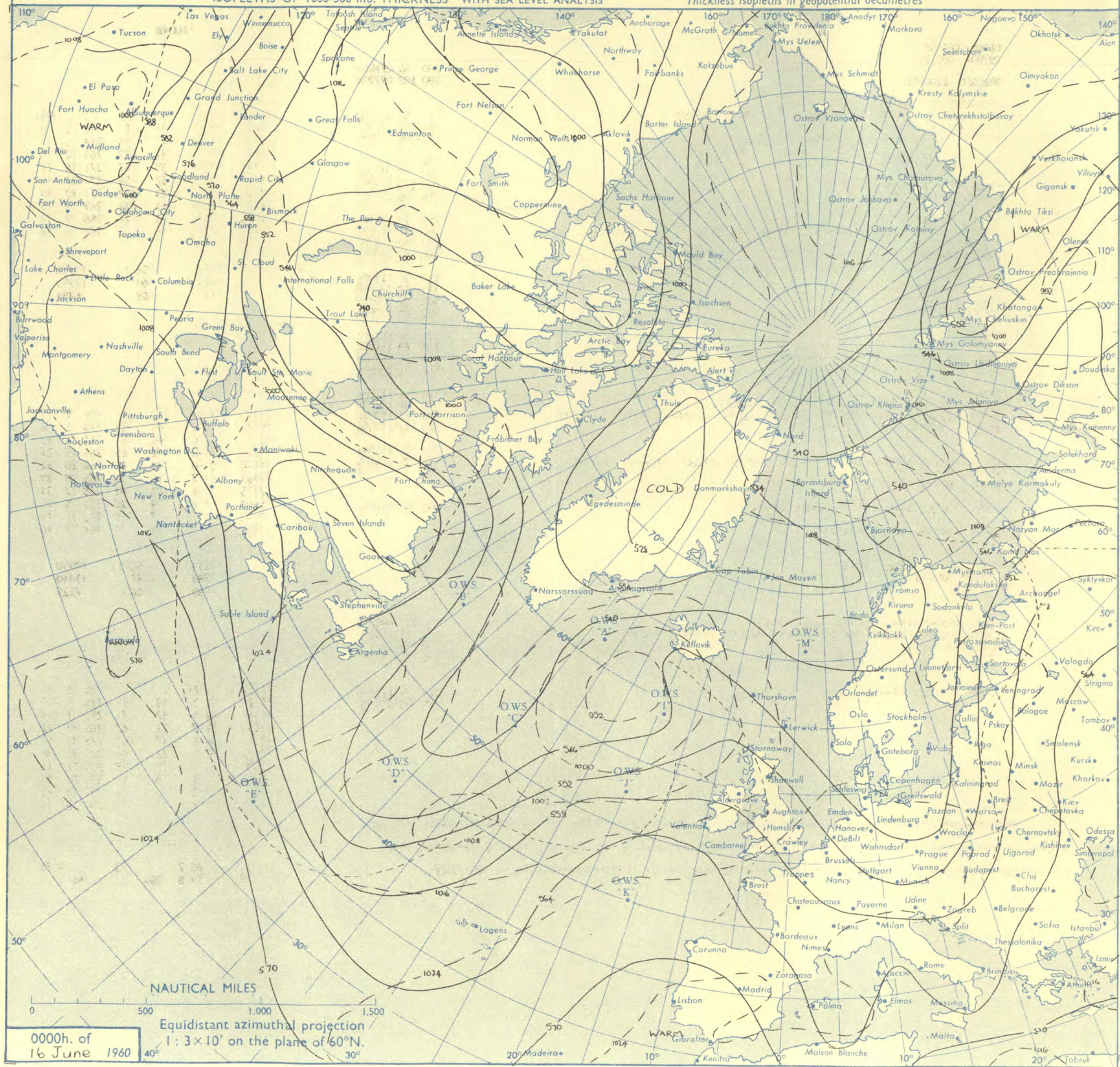
† Observations were made at Larkhill (Lat.  $51^{\circ} 12' \text{ N.}$ , Long.  $01^{\circ} 48' \text{ W.}$ ) up to 28th April, 1953.

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



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

Thickness isopleths in geopotential decametres



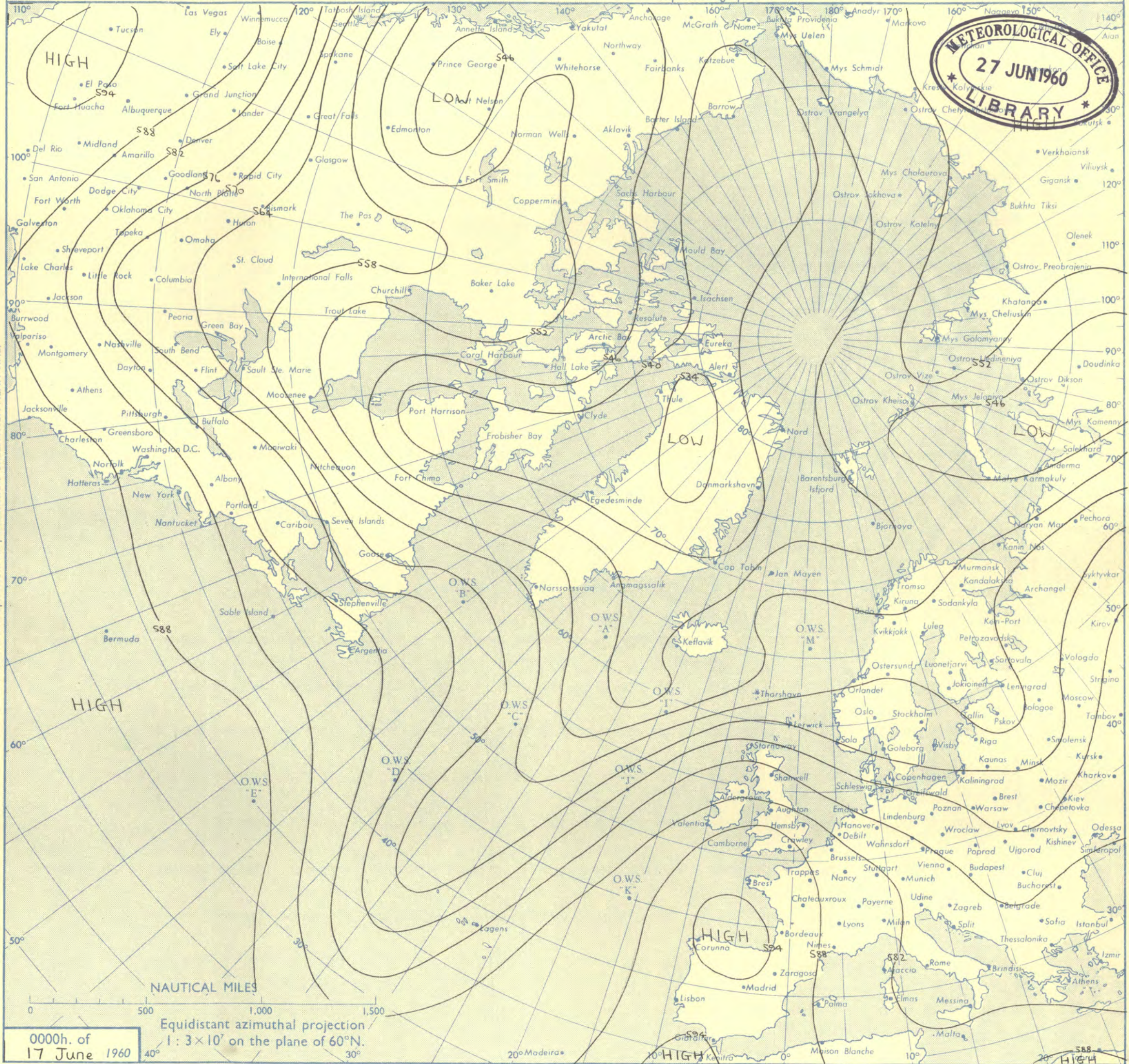


CONTOURS OF THE 500 mb. SURFACE

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	162245	082	11	11	103	10	10	1439	04	03	3009	01-	13-	5625	14-	30-	7282	24-	40-	9314	40-	50-	11986	53-	13860	49-	16515	50-	18848	49-				
	171100	082	12	11	122	12	10	1467	06	04	3050	00	04-	5691	12-	23-	7352	25-	36-	9390	38-	49-	12070	56-	13952	48-	16599	50-	18939	49-	21154	49-	24517	49-
STORNOWAY 03026	162340	013	12	11	135	12	10	1476	07	03-	3062	02	04-	5715	12-	20-	7381	25-	31-	9401	42-	++	12040	55-	13873	55-	16474	52-						
	171113	013	15	14	142	14	12	1490	07	05	3072	02	08-	5706	14-	40-	7360	26-	41-	9384	40-	50-	12025	56-	13869	53-	16489	52-	18814	50-				
SHANWELL 03170	162300	005	13	09	166	13	09	1516	09	03	3108	04	02-	5764	13-	20-	7428	24-	29-	9453	41-	++	12090	57-	13931	54-	16521	53-	18820	52-	21018	50-		
	171100	005	20	15	179	17	13	1551	12	03-	3148	03	13-	5782	16-	31-	7430	27-	32-	9440	43-	++	12061	60-	13869	57-	16447	57-	18726	55-	20895	51-	24220	51-
ALDERGROVE 03917	162300	077	16	13	187	15	13	1551	10	05	3146	03	01-	5793	12-	27-	7457	25-	33-	9485	41-	++	12119	61-	13942	55-	16534	55-	18808	54-	20994	50-	24349	49-
	171100	077	20	15	209	16	13	1572	10	04	3158	02	12-	5791	14-	22-	7445	26-	31-	9473	40-	46-	12118	59-	13920	57-	16497	56-	18754	58-	20881	56-	24161	52-
AUGHTON 03322	162300	056	14	13	202	15	13	1568	09	07	3172	05	06-	5836	12-	17-	7504	24-	29-	9541	40-	47-	12177	60-	13990	56-	16551	59-	18818	55-	20981	53-		
	171100	056	22	16	227	18	15	1596	10	07	3200	04	02-	5856	12-	17-	7524	23-	29-	9559	40-	46-	12202	61-	13995	57-	16553	58-	18823	56-	20970	53-	24275	52-
HEMSBY 03496	170100	012	16	15	202	17	14	1578	13	02	3183	05	10-	5852	11-	17-	7530	23-	30-	9568	39-	44-	12233	57-	14046	58-	16620	57-	18885	55-				
	171100	012	21	15	229	17	12	1600	12	06	3207	04	04-	5861	12-	21-	7522	25-	32-	9547	40-	46-	12189	61-	13957	58-	16501	59-	18734	58-				
CRAWLEY 03774	162300	144	15	15	224	15	14	1598	12	03	3210	06	07-	5877	11-	20-	7553	23-	34-	9596	38-	48-	12256	57-	14068	58-	16614	59-						
	171100	144	19	15	241	17	14	1612	15	05-	3229	05	02-	5896	11-	19-	7566	24-	29-	9611	39-	45-	12272	59-	14049	58-	16611	58-	18858	56-	21008	53-	24293	52-
CAMBORNE 03808	162315	088	14	14	236	14	13	1606	15	06	3226	05	01-	5899	10-	18-	7572	24-	27-	9619	38-	45-	12297	57-	14094	59-	16625	59-	18862	58-	21006	54-		
	171105	088	17	16	246	15	14	1617	13	08	3229	04	02-	5887	12-	19-	7553	24-	29-	9579	40-	46-	12222	61-	14020	57-	16556	59-	18804	57-				
VALENTIA 03953	162334	014	15	14	211	14	14	1591	13	03-	3201	05	01-	5870	11-	19-	7540	23-	30-	9590	38-	40-	12260	60-	++++	++	16610	57-						
	171157	014	19	15	234	16	13	1605	10	04	3196	01	02-	5830	14-	17-	7480	26-	31-	9500	42-	++	12130	61-	++++	++	16480	61-						
Ocean Weather Station 'I'  59°00'N 19°00'W	162300		11	10	034	11	09	1367	03	02	2921	03-	08-	5520	15-	36-	7170	24-	41-	9210	40-	50-	11880	51-	13760	49-	16410	51-	18740	50-	20940	50-	24280	50-
	171100		12	10	082	11	09	1414	03	00	2964	05-	13-	5540	20-	36-	7160	30-	42-	9150	43-	++	11840	44-	13760	47-	16430	49-						
Ocean Weather Station 'J'  52°30'N 20°00'W	162300		13	13	112	13	13	1477	09	08	3068	01	03-	5710	13-	34-	7360	27-	46-	9370	42-	++	12020	57-	13850	54-								
	171100		13	13	156	12	11	1512	08	07	3094	00	06-	5720	14-	++	7380	24-	++	9420	38-	++	12100	58-	13950	51-								



STATION	ww N <sub>H</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPopause		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	60 870++	012	002	713	921 07 06 899 07 06 858 04 03 804 04 02 749 ++ 02- 720 ++ 10- 675 02- 15- 601 08- 23- 545 10- 28- 409 23- 39- 298 40- 50- 242 50- 189 54- 163 48- 100 50- 056 48-	189	12360	54-
	50 7557+	015	005	691	938 08 06 860 06 04 817 07 05 717 ++ 01- 554 09- 15- 531 09- 18- 370 29- 41- 365 29- 41- 287 40- 50- 234 51- 201 56- 166 47- 155 47- 138 51- 100 50- 061 47- 030 49-	201	12030	56-
STORNOWAY 03026	25 35530	016	015	670	006 12 10 913 05 03 881 04 02 867 07 00 846 ++ 03- 820 ++ 22- 815 07 16- 801 ++ 05- 728 02 03- 713 03 02- 655 01- 05- 642 ++ 05- 624 ++ 11- 590 ++ 08- 549 07- 12- 503 ++ 19- 473 15- 21- 370 30- 34- 309 40- 44- 236 54- 218 56- 120 55- 103 52- 083 55-	218	11470	56-
	50 672++	017	016	671	961 10 09 918 09 08 904 09 07 840 06 04 811 06 04 767 05 02- 748 05 04- 557 08- 36- 443 ++ 43- 401 ++ 41- 367 30- 48- 302 40- 50- 265 48- 226 56- 209 58- 164 53- 102 52- 065 49-	209	11720	58-
SHANWELL 03170	01 51541	020	019	634	999 13 09 904 07 04 883 12 06 878 ++ 02 832 08 03 798 07 03 759 05 00 727 05 01- 651 01 06- 625 01- 07- 581 05- 15- 388 26- 31- 306 40- 44- 244 53- 211 57- 172 57- 167 52- 160 51- 125 57- 103 53- 090 55- 062 49- 036 48-	211	11770	57-
	03 18538	021	020	661	001 17 13 948 13 11 914 12 07 908 15 08 875 14 01- 832 ++ 06- 789 09 03- 770 ++ 11- 754 ++ 12- 715 ++ 06- 705 ++ 13- 696 03 13- 617 05- 19- 570 07- 25- 490 17- 31- 478 ++ 35- 457 20- 34- 404 26- 31- 314 40- 46- 221 58- 194 60- 177 57- 154 58- 141 56- 129 58- 116 54- 102 57- 049 51- 030 51-	194	12210	60-
ALDERGROVE 03917	02 755++	022	013	652	004 15 13 871 09 07 850 ++ 05 836 11 06 796 07 03 773 08 05 700 03 01- 685 03 03- 637 ++ 04- 585 06- 11- 567 06- 14- 547 ++ 19- 518 10- 25- 510 ++ 27- 454 18- 27- 441 19- 27- 353 31- 40- 303 ++ 50- 202 62- 176 55- 107 55- 090 56- 057 50- 042 48- 030 49-	202	12050	62-
	02 11639	024	015	662	002 16 13 943 12 10 920 13 09 896 ++ 05 846 09 04 831 09 04 788 ++ 02 756 04 04- 730 04 07- 720 ++ 11- 650 01- 16- 511 ++ 22- 448 20- 23- 368 29- 36- 299 40- 46- 231 54- 184 61- 144 56- 124 58- 104 56- 061 58- 030 52-	184	12630	61-
AUGHTON 03322	02 25530	024	017	636	010 15 13 988 15 13 964 15 10 889 10 08 864 10 07 835 08 06 818 09 06 802 ++ 05 794 08 04 774 10 03- 748 ++ 06- 737 ++ 01- 712 06 04- 703 ++ 06- 655 ++ 05- 580 05- 10- 574 04- 10- 473 ++ 20- 456 16- 22- 430 19- 24- 378 28- 33- 301 40- 47- 222 57- 195 61- 161 56- 126 56- 109 60- 077 55- 044 52-	195	12320	61-
	02 22572	027	020	647	015 ++ 16 006 18 15 917 11 09 875 11 08 837 09 06 826 09 02 813 11 03- 802 ++ 06- 778 ++ 02- 721 06 04- 697 04 02- 631 01- 06- 580 07- 12- 570 05- 13- 538 08- 13- 515 10- 18- 507 11- 16- 450 17- 21- 319 36- 43- 300 40- 46- 279 45- 183 64- 161 57- 123 60- 110 55- 099 59- 091 55- 055 56- 047 52- 030 52-	183	12760	64-
HEMSBY 03496	01 10970	024	023	622	016 18 15 008 ++ 14 928 ++ 12 893 12 09 854 13 03 809 11 06- 778 ++ 04 761 07 03 743 07 01- 692 ++ 12- 622 00 16- 585 03- 17- 552 ++ 13- 496 ++ 16- 480 ++ 19- 451 ++ 21- 420 20- 27- 386 26- 31- 293 40- 46- 211 56- 182 58- 103 57- 060 56-	182	12830	58-
	02 11501	027	025	651	011 18 13 935 ++ 11 925 13 09 920 ++ 06 889 ++ 09 861 12 06 790 ++ 05 747 08 02- 628 ++ 05- 587 ++ 09- 575 07- 13- 559 07- 20- 530 09- 26- 511 ++ 20- 446 19- 23- 414 23- 27- 395 ++ 35- 357 31- 36- 340 34- 41- 318 ++ 43- 300 40- 46- 189 64- 170 68- 156 58- 095 59- 088 61- 068 58-	170	13180	68-
CRAWLEY 03774	45 9+0++	027	009	617	978 14 13 965 15 14 900 13 11 860 ++ 07 844 ++ 00 805 ++ 14- 797 ++ 03- 780 11 02- 766 ++ 01- 754 ++ 03- 745 ++ 12- 685 ++ 05- 675 ++ 14- 640 ++ 25- 581 03- 25- 534 09- 15- 500 11- 20- 480 ++ 26- 445 ++ 31- 360 ++ 37- 290 ++ 50- 239 51- 207 57- 125 59- 083 56- 073 56-	207	12050	57-
	02 755++	029	011	632	979 14 11 925 10 09 913 14 10 871 ++ 04- 862 15 04- 814 14 06- 760 ++ 01 743 ++ 03- 672 ++ 02- 630 ++ 07- 565 07- 11- 546 06- 12- 506 ++ 19- 409 23- 27- 389 24- 30- 375 ++ 33- 291 ++ 46- 224 54- 167 66- 163 61- 143 57- 111 57- 081 59- 054 53- 030 52	167	13390	66-
CAMBORNE 03808	50 861++	028	018	625	971 12 11 955 14 13 873 12 11 843 15 03 780 ++ 05 710 ++ 01 670 ++ 04- 595 ++ 06- 562 05- 10- 550 05- 11- 512 10- 15- 494 10- 20- 436 19- 23- 393 ++ 26- 363 ++ 36- 288 40- 47- 202 57- 170 63- 156 58- 107 60- 033 52-	170	13311	63-
	50 861++	029	019	650	996 15 13 945 13 11 914 13 11 907 13 08 890 14 10 867 13 09 843 14 09 824 12 06 806 12 04 782 ++ 03 738 ++ 03- 727 07 01- 708 ++ 01- 625 02- 07- 565 07- 11- 540 ++ 12- 519 10- 15- 485 ++ 25- 472 15- 21- 433 ++ 24- 360 31- 35- 306 39- 45- 262 48- 198 61- 173 64- 167 57- 153 56- 122 62- 116 59- 090 59- 088 56- 067 57-	173	13120	64-
VALENTIA 03953	51 860++	023	023	645	000 14 14 955 17 16 900 14 12 812 12 10- 718 06 02- 656 01 02- 590 05- 08- 571 03- 12- 545 06- 27- 467 16- 17- 280 40- 200 60- 186 62- 166 62- 153 57- 117 59- 098 56- 085 58- 064 55-	186	12700	62-
	01 1649+	027	025	680	986 15 12 958 15 11 790 06 01 732 03 09- 643 03- 06- 606 04- 17- 574 08- 21- 540 11- 23- 513 13- 16- 446 20- 23- 217 58- 184 63- 142 56- 088 63-	184	12700	63-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 6857+	004	004	799	891 04 04 847 03 02 828 ++ 01 777 02- 02- 736 01- 02- 684 04- 11- 659 04- 14- 563 ++ 33- 502 ++ 36- 496 ++ 32- 365 28- 47- 300 40- 50- 228 53- 184 50- 135 48- 108 52- 091 49- 030 50-	228	11000	53-
	02 785++	010	010	792	912 ++ 04 906 04 03 874 05 02 800 ++ 05- 745 03- 07- 732 ++ 06- 718 03- 09- 681 06- 16- 617 09- 25- 558 15- 31- 519 ++ 36- 452 25- 37- 30- 42- 355 37- 48- 323 40- 50- 286 46- 224 48 197 44- 121 49- 098 49-	286	09500	46-
Ocean Weather Station 'J' 52°30'N 20°00'W	51 872++	013	013	653	887 11 10 849 08 07 818 08 06 801 ++ 03 706 ++ 01- 700 01 03- 686 ++ 07- 653 00 12- 565 07- 26- 395 29- 47- 310 40- 50- 226 55- 212 57- 182 57- 174 54- 115 53-	212	11700	57-
	45 862++	019	019	701	976 11 10 931 11 10 864 09 08 848 ++ 07 823 ++ 05 775 ++ 03 764 03 00 749 04 02- 728 ++ 09- 716 ++ 06- 695 00 05- 641 ++ 10- 528 11- 372 28- 350 29- 43- 226 51- 187 61- 180 53- 159 51- 122 51-	187	12500	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	162245	T	240 25	+++ ++	270 26	260 23	250 18	260 27	270 32	280 45	290 75	300 97	290110	290 72	280 44	280 21	280 16				
	170500	P	240 18	+++ ++	270 28	270 29	270 32	280 32	270 46	280 54	270 60	270 73	280 60	280 60	280 40	280 22	250 12	330 01	070 12		
	171100	T	220 25	+++ ++	240 29	250 41	260 45	260 50	260 56	270 61	260 51	280 51	270 50	270 55	270 30	270 38	280 12	220 16	P150 12	060 12	
	171700	P	250 28	+++ ++	270 34	260 44	260 46	260 51	260 55	260 63	260 59	250 65	250 70	260 66	260 37	260 27	280 16	280 12	110 11		
STORNOWAY 03026	162300	P	250 19	+++ ++	240 27	260 35	260 42	260 43	270 59	270 66	270 65	270 66	270 67	260 57	270 41	280 41					
	170515	P	190 10	+++ ++	230 32	250 46	250 45	250 49	250 51	250 57	250 61	250 67	260 85	260 55	240 37	260 22	270 07	010 05			
	171113	T	240 20	+++ ++	240 39	250 48	250 54	250 59	250 62	250 60	250 67	250 43	250 48	250 43	250 35	230 23					
	171700	P	260 18	+++ ++	250 39	250 45	250 51	250 55	260 61	250 65	250 73	250 69	250 66	250 58	250 44						
SHANWELL 03170	162300	T	270 12	+++ ++	280 36	280 44	290 40	290 38	290 47	280 56	280 61	280 62	280 60	280 55	280 35	P280 21	270 09	140 02	070 07	070 24	
	170500	P	250 07	+++ ++	270 31	270 38	270 38	280 33	270 34	270 41	270 50	270 58	270 68	270 73	260 25	260 29	310 08				
	171100	T	260 12	+++ ++	260 33	260 25	260 35	270 35	270 33	260 30	260 40	260 60	250 65	260 54	260 32	210 13	240 05	010 05	110 10		
	171700	P	260 12	+++ ++	260 37	270 38	270 37	270 35	270 35	250 26	250 35	250 49	250 62	250 65	250 79	290 19	250 30	220 07	140 10		
ALDERGROVE 03917	162300	T	190 03	+++ ++	270 21	280 33	280 42	280 45	260 45	260 39	260 36	270 48	280 60	270 51	250 24	240 11	300 05	100 04	090 12		
	170500	P	210 13	+++ ++	260 29	260 26	270 24	260 35	250 42	260 41	250 48	250 45	250 54	250 62	250 27	240 21	050 04	110 07			
	171100	T	230 16	+++ ++	270 22	270 30	260 32	250 31	240 32	250 40	250 44	250 46	250 62	250 62	250 37	250 15	200 11	250 01	100 11		
	171700	P	240 08	+++ ++	250 20	260 25	270 32	260 28	250 42	250 44	240 52	240 55	240 65	240 67	260 46	260 24	230 09	070 04			
AUGHTON 03322	762300	T	210 06	+++ ++	280 25	290 24	290 31	290 32	280 38	280 35	270 32	290 43	280 48	270 49	280 35	270 18	220 08	070 02			
	170500	P	000 00	+++ ++	290 21	290 24	290 23	270 23	270 31	280 25	270 34	270 42	270 42	280 50	260 24	270 18	250 04	130 10			
	171100	T	260 08	+++ ++	260 11	270 19	270 26	260 28	260 24	260 24	270 33	270 48	260 54	260 57	270 31	240 10	220 07	100 06	100 16		
	171700	P	250 07	+++ ++	260 09	300 14	300 16	260 18	260 29	250 30	250 33	250 42	260 48	260 48	270 34	290 27	250 06	090 10	100 18		
HEMSBY 03496	162300	T	240 07	+++ ++	280 20	280 22	290 23	290 25	300 36	310 41	310 48	310 39	P310 45	300 40	310 36	310 17	350 06	080 14			
	170500	P	270 08	+++ ++	300 13	290 16	290 24	310 31	310 36	300 35	310 32	310 39	320 40	320 49	300 25	300 16	020 06	140 12	080 18	090 25	
	171100	T	040 10	290 08	300 11	330 14	310 19	300 22	300 31	300 27	280 30	290 34	290 38	290 40	290 23	300 09					
	171700	P	090 07	+++ ++	270 10	300 15	300 14	280 15	280 21	280 28	290 30	290 37	280 43	280 46	300 24	260 16	350 06	100 08			
CRAWLEY 03774	162300	T	250 04	+++ ++	300 13	300 13	310 16	320 17	320 25	320 25	300 31	310 41	300 40	300 42	300 31	300 11	P130 03	080 11			
	170500	P	000 00	+++ ++	280 06	290 10	320 12	320 15	310 18	300 20	310 27	310 30	320 31	330 39	290 25	300 10	330 03	080 09	110 31		
	171040	P	220 03	+++ ++	360 03	010 04	310 07	290 13	280 14	270 19	280 18	290 23	280 30	290 33	290 24	290 14	080 01	080 10	080 15		
	171700	P	220 05	+++ ++	360 04	050 06	040 04	300 07	270 17	280 23	260 19	260 26	270 30	280 35	300 30						
CAMBORNE 03808	162315	T	280 07	+++ ++	280 16	280 16	290 14	270 13	270 12	260 17	250 24	270 26	280 27	280 43	250 27	250 09	240 03	080 08			
	170500	P	290 02	+++ ++	280 09	260 07	250 10	240 11	240 13	250 19	250 23	250 27	240 29	240 33	260 24	270 13	180 02	080 10	080 21		
	171105	T	000 00	+++ ++	290 02	220 04	230 09	250 12	240 17	220 23	220 22	220 24	220 33	230 34	260 22	240 06	130 07	P140 06	090 16		
	171700	P	290 03	+++ ++	050 03	080 04	280 04	230 06	240 16	240 20	220 28	220 31	230 37	230 36	250 27	290 12	150 03	030 06			
VALENTIA 03953	162334	T	200 10	210 12	+++ ++	230 27	+++ ++	240 28	+++ ++	230 30	220 44	230 44	+++ ++	230 48	+++ ++	220 15					
	171130	P	180 10	+++ ++	220 08	240 09	220 13	210 29	210 38	220 31	210 43	220 43	220 55	220 50	220 25	250 13					
Ocean Weather Station 'I' 59°00'N 19°00'W	162300	T	220 20	+++ ++	230 29	240 29	230 35	230 39	230 54	230 69	230 96	230 96	230 97	230 78	230 43	230 29	230 19	230 13	230 07		
	170500	P	225 20	+++ ++	240 29	240 27	240 27	250 35	240 51	220 74	230 87	220124	230 70	230 50	230 35	230 18	230 06	000 00			
	171100	T	260 17	+++ ++	250 27	260 24	260 21	250 28	240 28	230 45	230 72	230117	210 84	210 54	220 39						
	171700	P	270 20	+++ ++	260 21	260 20	270 21	260 22	250 27	250 34	230 62	230 85	220 71	230 48	240 35	240 25					
Ocean Weather Station 'J' 52°30'N 20°00'W	162300	T	200 28	+++ ++	220 45	220 46	230 48	230 52	210 58	210 66	210 63	310 54	210 42	220 57	220 34						
	170500	P	225 10	+++ ++	240 29	240 36	230 42	220 55	220 59	210 60	220 55	220 59	220 60	210 58	210 28	220 21					
	171100	T	200 12	+++ ++	210 22	220 32	220 40	220 45	220 63	220 55	220 59	220 82	240 85	220 69	220 52						
	171700	P	180 10	+++ ++	210 25	210 29	220 36	220 37	210 51	210 54	220 52	220 70	230 80	240 69	230 43	230 26					
LARKHILL 03743	170630	P	290 02	+++ ++	350 07	320 09	310 14	290 11	300 15	270 21	270 21	290 26	280 26	290 29	280 27	290 10	050 07	110 10	110 18	090 21	
	171030	P	180 03	+++ ++	020 05	010 08	330 07	270 13	260 17	260 23	290 20	270 26	270 27	270 37	290 25	260 13	190 04	070 09			

## 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
171151	48.2°N.18.0°W.	023	016	685	061	13 13	189	12 06	073 12 01-	1548 10 07-	2048 07 01-	04 02	3131 01 02-	02- 06-	4356 05- 13-	10- 15-	5761 15- 28-	
Cloud :— 6/8 St. 200 to 1000 ft. 1/8 Sc. 2000 to 2200 ft. 1/8 Ac. 14000 ft. 1/8 Ci. at 30000 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
171328	45.9°N.13.2°W.	020	013	647	061	15 10	165	14 05	058 17 01	1542 15 01	2054 12 02	08 01	3155 05 05-	00 12-	4389 05- 16-	12- 22-	5791 16- 16-	
Cloud :— 4/8 St. 700 to 1200 ft. 1/8 Ac. at 9000 ft. 1/8 Ac. 18000 to 19000 ft. 1/8 Ci. at 30000 ft.																		
Inversion Levels :— 1000-968mb 14°C to 15°C. 950 to 900mb 14°C to 17½°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	178mb 290 59 129mb 280 31 060mb 230 07 21900m 110 12 03450/0 10050/1 P27300m 080 19 12580/1 21020/9	290 112 10770m 270 78 09000m 260 63 05910m 250 78 11080m
STORNOWAY 03026	01640/0 03860/0 13180/1 08860/0 09900/0 11310/1 11850/1 080mb 220 11 15000m 260 36	270 68 10180m 250 91 09970m 250 71 07060m 250 80 07800m
SHANWELL 03170	P25600m 050 11 25850/0 12900m 270 50 05370/0 12320/1 12900/1 13470/1 119mb 250 33 12880m 270 44 21600m 070 09 03800/1 05320/0 12980/1 13350/1 16580/7	280 64 10150m 270 75 11180m 250 66 10930m 250 84 11770m
ALDERGROVE 03917	12900m 250 39 13100/1 17600/8 P24600m 100 15 12050/1	280 70 11510m 260 66 12000m 250 68 12100m 240 72 11480m
AUGHTON 03322	13500m 270 36 13350/1 P25500m 080 15 25800m 100 33 13810/1 16360/1	
HEMSBY 03496	P14700m 310 22 21300m 090 13 13200m 290 36 29200m 080 23 21300/9 073mb 170 03	
CRAWLEY 03774	22500m 100 12 01870/2 06350/2 18600/8 18110/8 15600m 290 17	
CAMBORNE 03808	038mb 100 09 P25200m 090 21 22800m 090 14	
VALENTIA 03953	900mb 230 23 590mb 230 32 153mb 230 42 061mb 200 15 00300m 190 09 00600m 210 08 18000m 190 06 24000m 060 17	
Ocean Weather Station 'I' 59°00'N 19°00'W	174mb 230 61 075mb 230 19 035mb 230 10 07800m 230 105 09900m 220 100 21000m 000 00 453mb 230 58 332mb 230 98 105mb 220 24 06000m 240 49 18000m 240 30 07620/0 09130/0 10820/1	230 111 07800m 220 128 09050m 230 132 08910m 230 92 09360m
Ocean Weather Station 'J' 52°30'N 20°00'W	118mb 210 22 12900m 210 33 17100m 220 11 12500/1 131mb 220 35 17400m 230 15 07380/0 11480/1 12600/1 14500/1	210 69 07790m 220 66 11300m 230 87 10410m 230 83 10670m
LARKHILL 03743	18520/8	

## NOTES ON THE AEROLOGICAL SITUATION

The trough near Hudson Bay is moving slowly southeast and the flow on its southeastern flank is increasing. The ridge over the western Atlantic is moving east and the trough over the central Atlantic is being cut off to form a slow-moving low to the northwest of the Azores. The ridge over the British Isles is broadening and the almost stationary trough over the Mediterranean is tending to tilt.

AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
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 <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropopause		Average	Max.	Min.	Max.	Min.	
		Press.	Press.	Press.	Temp.	Temp.	
Upper		mb.	°C	mb.	°C	°C	
Lower		193	-59.8	266	...	-46	...
* V <sub>R</sub> = Vector average wind. V <sub>S</sub> = 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.							

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

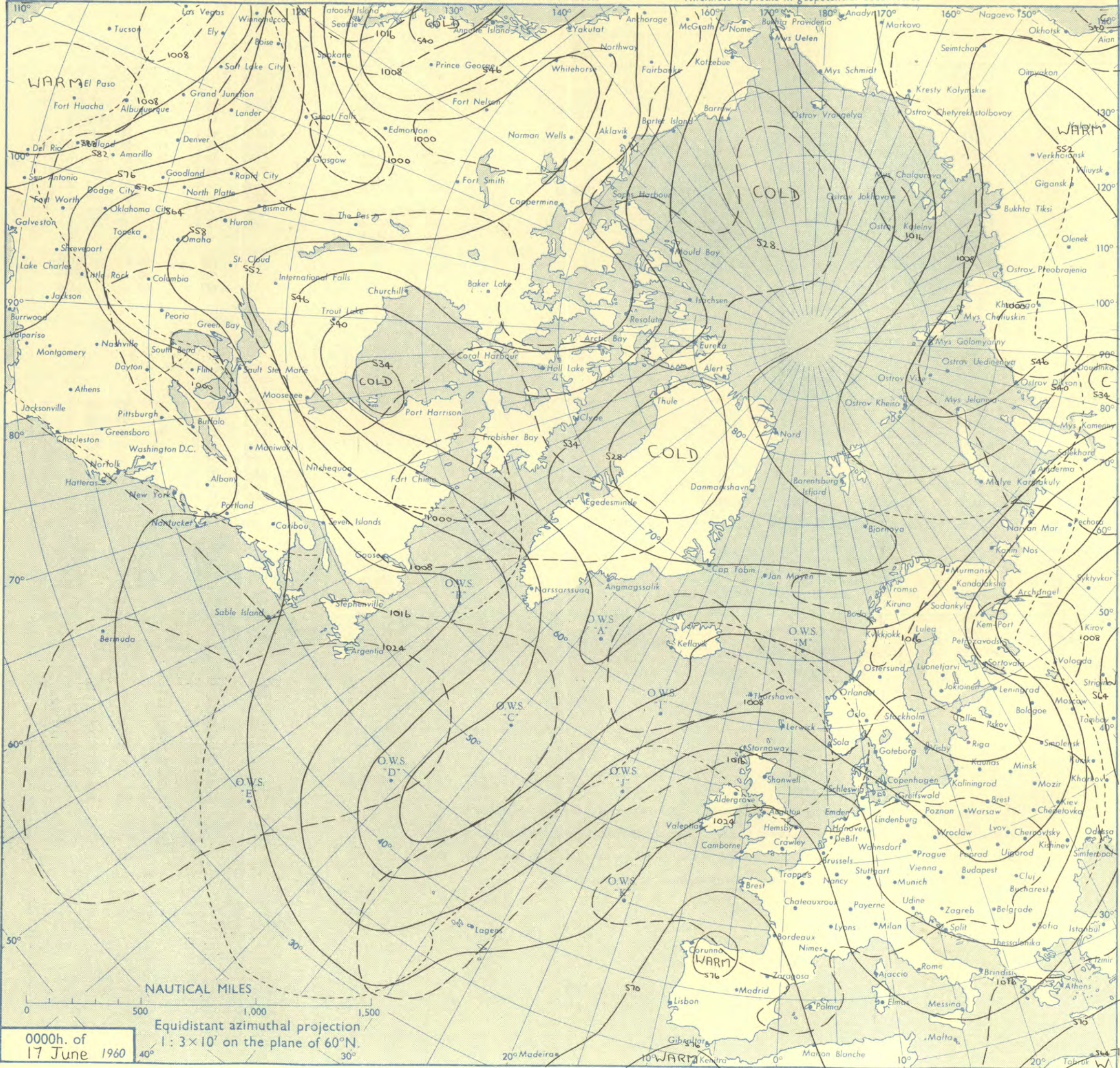
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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



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

Thickness isopleths in geopotential decametres

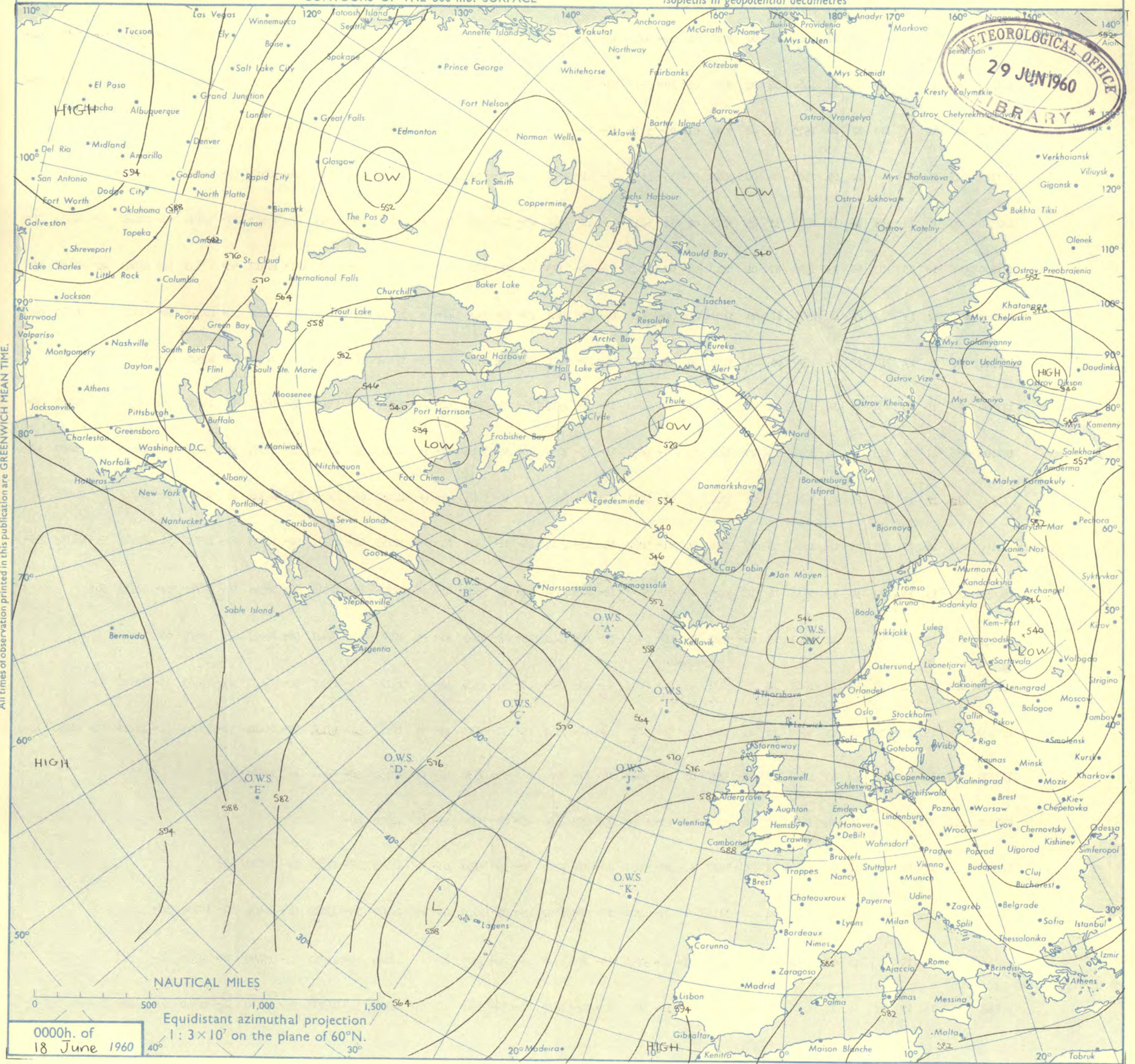




CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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

0000h. of  
18 June 1960Equidistant azimuthal projection  
1:3 x 10<sup>7</sup> 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	gpm	°C				
LERWICK 03005	172245	082	11	10	131	11	10	1466	05	00	3033	01-	08-	5653	15-	19-	7301	27-	30-	9310	43-	++	11951	54-	13844	47-	16499	51-	18828	51-	21027	50-	24374	48-						
	181100	082	13	11	129	12	10	1464	04	02	3012	05-	10-	5577	21-	29-	7183	33-	39-	9157	43-	++	11886	43-	13815	46-	16514	46-	18866	48-	21091	48-	24473	45-						
STORNOWAY 03026	172300	013	13	11	173	12	10	1519	06	02	3095	01-	05-	5715	16-	19-	7360	27-	30-	9373	42-	++	12006	53-	13874	53-	16499	53-												
	181125	013	14	10	188	12	09	1523	02	00	3082	03-	15-	5674	15-	41-	7314	29-	48-	9307	44-	++	11972	48-	13863	48-	16518	50-	18855	51-	21049	52-								
SHANWELL 03170	172320	005	16	13	198	16	13	1571	11	05	3173	04	10-	5815	15-	19-	7468	25-	31-	9490	40-	46-	12130	60-	13971	52-	16563	57-	18856	53-	21021	52-	24353	50-						
	181100	005	18	15	183	16	13	1542	07	04	3112	01-	03-	5723	17-	20-	7373	26-	29-	9391	42-	++	12022	55-	13889	51-	16512	53-	18833	52-	21041	45-	24457	45-						
ALDERGROVE 03917	172300	077	17	15	220	17	14	1597	11	08	3189	01-	02-	5822	14-	17-	7484	25-	39-	9509	41-	++	12140	57-	13970	54-	16562	55-	18843	54-	21030	50-	24380	46-						
	181145	077	19	17	218	17	14	1579	06	04	3152	00	05-	5777	15-	27-	7431	25-	30-	9439	39-	45-	12102	58-	13940	52-	16540	56-	18805	55-	20955	54-								
AUGHTON 03322	172300	056	15	15	234	16	14	1616	12	04	3216	02	00	5860	15-	18-	7513	26-	29-	9528	42-	++	12157	59-	13975	55-	16538	58-	18802	56-	20968	51-	24288	52-						
	181100	056	21	15	215	17	14	1594	10	08	3195	03	01-	5837	14-	19-	7499	24-	34-	9524	41-	++	12163	59-	13993	54-	16584	55-	18876	51-	21085	48-	24493	43-						
HEMSBY 03496	172300	012	17	15	228	21	15	1608	12	01	3206	03	02-	5837	14-	22-	7492	27-	34-	9495	44-	++	12082	64-	13854	61-	16366	60-	18594	58-	20727	55-	24005	54-						
	181100	012	26	17	216	23	15	1604	13	07	3210	04	01-	5862	14-	18-	7514	26-	31-	9535	41-	++	12159	61-	13971	56-	16523	62-	18772	56-	20910	55-	24187	53-						
CRAWLEY 03774	180050	144	13	13	232	16	13	1613	16	12	3228	05	01-	5889	12-	20-	7554	24-	32-	9584	41-	++	12225	60-	14014	58-	16546	60-	18783	57-	20919	56-								
	181157	144	22	18	222	20	14	1607	15	06-	3223	05	05-	5881	13-	16-	7543	25-	27-	9565	41-	++	12203	55-	14041	55-	16607	58-	18875	55-										
CAMBORNE 03808	172300	088	14	14	237	16	13	1617	14	05	3231	05	06-	5883	15-	23-	7529	28-	34-	9528	44-	++	12126	63-	13906	60-	16408	65-	18609	61-	20704	60-								
	181100	088	15	15	226	14	12	1609	16	04	3227	05	06-	5890	13-	18-	7550	25-	33-	9573	41-	++	12252	52-	14104	54-	16684	58-	18947	54-	21123	51-	24480	45-						
VALENTIA 03953	172330	014	14	13	231	14	13	1602	13	02-	3207	03	01-	5840	14-	17-	7500	26-	33-	9530	41-	++	12150	58-	++++	++	16530	59-												
	181300	014	18	16	234	16	14	1614	12	06	3220	02	03-	5860	13-	19-	7530	25-	28-	9560	39-	42-	12220	60-																
Ocean Weather Station 'I'  59°00'N 19°00'W	172300		11	11	151	10	09	1480	02	01	3027	05-	10-	5600	20-	27-	7210	32-	39-	9190	43-	++	11890	46-	11380	47-	16470	49-												
	181100		11	08	220	09	07	1548	02	06-	3111	01-	23-	5720	16-	24-	7360	29-	35-	9350	45-	++	11960	55-	13820	52-	16430	52-	18730	53-										
Ocean Weather Station 'J'  52°30'N 20°00'W	172300		13	13	183	13	11	1544	08	07	3125	01-	02-	5750	14-	16-	7400	26-	28-	9420	42-	++	12040	59-	13890	53-	16480	56-	18760	56-										
	181100		14	13	220	14	12	1584	10	06	3178	02	12-	5810	13-	22-	7470	24-	31-	9510	40-	47-	12170	55-	14000	55-	16580	56-	18840	57-	20980	56-								



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE																																		TROPOPAUSE		
		MSL	Surf.	0°C level																																mb	m	°C
LERWICK  03005	02 463++	016	006	720	962 09 08 952 09 07 875 03 02 856 05 01 754 04 03- 773 ++ 05- 760 ++ 05- 723 ++ 12- 702 ++ 10- 698 ++ 06- 684 02- 05- 667 02- 14- 618 06- 22- 596 06- 21- 572 ++ 22- 538 10- 17- 507 ++ 19- 391 ++ 31- 373 ++ 36- 314 40- 43- 253 51- 223 55- 200 54- 193 50- 153 47- 120 51- 100 51- 037 50- 030 48-	223	11250	55-																														
	20 784++	015	006	795	991 11 09 941 07 05 921 07 05 762 03- 05- 737 03- 06- 645 ++ 17- 606 11- 19- 548 18- 26- 531 18- 27- 405 ++ 39- 358 39- 45- 344 39- 46- 287 44- 264 44- 210 42- 152 46- 140 44- 120 47- 100 46- 091 48- 045 49- 030 45-	287	09460	44-																														
STORNOWAY  03026	02 755++	021	019	708	950 10 09 900 06 04 859 06 03 808 05 02- 766 03 01 743 03 01- 701 01- 05- 684 01- 03- 660 ++ 08- 615 ++ 09- 592 08- 14- 566 ++ 14- 389 28- 30- 364 ++ 34- 312 40- 43- 248 53- 216 58- 208 54- 184 50- 096 54- 082 51- 071 53-	216	11510	58-																														
	03 725++	023	021	754	887 04 02 853 ++ 01 844 02 00 829 04 02- 772 ++ 10- 732 ++ 11- 700 03- 15- 559 14- 30- 535 13- 34- 493 16- 43- 397 29- 48- 326 40- 50- 256 51- 190 48- 165 50- 148 48- 109 51- 087 48- 050 52-	256	10360	51-																														
SHANWELL  03170	02 15630	023	023	652	020 17 14 960 14 11 943 15 10 940 ++ 10 856 11 04 803 07 01 778 08 06- 750 ++ 11- 726 06 08- 630 ++ 16- 520 ++ 20- 472 18- 21- 444 ++ 25- 393 26- 32- 370 ++ 37- 353 ++ 37- 323 ++ 45- 305 40- 46- 200 60- 178 54- 149 52- 098 57- 094 51- 080 55- 030 50-	200	12130	60-																														
	15 4837+	022	021	744	007 16 12 948 ++ 11 925 ++ 08 860 07 05 826 06 02 776 ++ 01 736 00 02- 720 00 02- 654 04- 06- 644 04- 06- 627 ++ 10- 586 10- 14- 484 18- 21- 451 19- 22- 308 40- 43- 225 57- 215 58- 180 51- 101 54- 093 50- 008 53- 087 51- 061 51- 060 48- 035 44- 030 45-	225	11280	57-																														
ALDERGROVE  03917	02 2567+	026	017	711	994 17 14 973 16 13 930 15 11 877 12 09 863 12 08 848 ++ 09 825 ++ 05 809 09 05 702 01- 02- 642 ++ 04- 567 07- 10- 514 14- 17- 466 16- 25- 420 22- 36- 305 ++ 50- 256 51- 213 58- 146 54- 112 56- 074 54- 049 50- 036 50- 030 46-	213	11750	58-																														
	21 6547+	027	017	698	990 15 13 937 11 10 918 ++ 09 778 02 00 766 03 01 744 01 02- 733 02 01- 692 ++ 06- 668 ++ 07- 615 05- 12- 532 13- 16- 497 16- 30- 407 24- 29- 321 37- 43- 297 39- 45- 259 49- 201 59- 169 53- 108 56- 039 53-	201	12090	59-																														
AUGHTON  03322	02 5553+	028	021	667	015 16 14 002 16 14 982 17 14 955 16 11 929 15 11 879 14 06 759 06 01- 752 06 04- 748 06 03- 720 04 02 626 03- 06- 603 04- 06- 593 ++ 10- 575 06 12- 531 11- 15- 438 22- 25- 405 25- 27- 373 30- 35- 350 ++ 37- 308 40- 44- 208 60- 170 59- 152 55- 114 59- 089 55- 080 57- 054 51- 030 52-	208	11900	60-																														
	02 6097+	025	019	669	011 20 15 007 18 14 985 17 12 942 15 12 925 15 08 916 15 10 902 ++ 11 875 ++ 09 829 09 07 822 08 04 818 ++ 03 811 09 03 795 ++ 05 713 05 00 651 02- 04- 610 05- 07- 591 04- 09- 561 08- 11- 551 09- 15- 533 ++ 17- 510 13- 17- 406 23- 33- 325 37- 46- 306 40- 49- 248 52- 225 56- 216 56- 197 60- 177 55- 152 54- 100 55- 085 55- 075 55- 030 43-	197	12230	60-																														
HEMSBY  03496	02 00900	027	025	668	019 22 18 001 ++ 15 882 13 11 858 ++ 02 822 11 03- 796 ++ 06- 762 07 02- 702 03 02- 626 04- 09- 609 ++ 10- 526 11- 18- 440 21- 29- 323 40- 46- 204 64- 174 64- 162 61- 129 64- 096 61- 043 53- 030 54-	204	11950	64-																														
	02 11501	025	023	644	017 24 15 900 14 11 857 13 05 841 ++ 08 780 ++ 05 770 08 02 743 ++ 02 729 ++ 01- 720 05 00 612 ++ 07- 602 ++ 12- 593 04- 11- 519 12- 16- 437 22- 25- 383 28- 35- 306 40- 47- 217 59- 197 61- 192 58- 172 60- 164 56- 129 57- 100 62- 075 56- 044 56- 030 53-	197	12230	61- 100 16523 62-																														
CRAWLEY  03774	02 00900	028	010	635	998 17 13 972 ++ 02 943 ++ 11 917 ++ 07 901 15 10 875 ++ 06 867 ++ 15 856 16 13 832 ++ 02 808 ++ 01- 782 10 02 775 ++ 04 652 ++ 03- 610 ++ 09- 600 ++ 06- 558 ++ 12- 544 ++ 18- 508 ++ 17- 493 ++ 23- 466 ++ 25- 428 ++ 23- 405 ++ 32- 353 31- 37- 324 37- 42- 195 61- 163 62- 147 57- 112 62- 037 54-	195	12390	61-																														
	03 31502	026	009	635	003 20 14 960 ++ 14 945 15 13 923 16 08 870 14 06 854 ++ 05- 835 15 09- 818 ++ 02 795 ++ 00 771 ++ 06- 760 ++ 03 709 ++ 02- 691 ++ 10- 670 ++ 01- 651 ++ 05- 538 10- 13- 529 10- 13- 448 ++ 23- 375 ++ 31- 304 ++ 43- 250 52- 226 55- 156 55- 118 58- 057 52-	226	11410	55-																														
CAMBORNE  03808	02 45501	029	018	631	010 ++ 13 000 16 13 970 14 12 948 15 13 912 ++ 03 900 16 07 882 15 03 853 15 05 819 ++ 04 782 ++ 01- 758 ++ 00 735 ++ 04- 722 ++ 04- 702 ++ 07 688 ++ 04- 668 03 09- 627 ++ 17- 599 ++ 17- 582 ++ 12- 543 10- 14- 512 ++ 22- 460 20- 28- 432 23- 31- 373 32- 39- 320 40- 46- 223 60- 205 63 185 60- 163 64- 153 60- 108 65- 070 61- 040 59-	205	12000	63-																														
	46 861++	027	017	623	995 13 11 976 15 13 941 ++ 12 935 14 10 915 ++ 02 906 18 05 862 16 05 783 12 01- 764 ++ 01 695 05 07- 676 04 05- 661 03 16- 651 ++ 14- 633 ++ 17- 621 ++ 08- 606 ++ 08- 594 03- 11- 580 ++ 13- 557 ++ 13- 493 ++ 18- 362 ++ 40- 305 40- 47- 268 46- 248 48- 240 47- 216 51- 191 54- 179 52- 161 54- 129 54- 108 58- 030 45-	191	12550	54- 108 16200 58-																														
VALENTIA  03953	10 6627+	027	026	670	915 12 11 900 13 12 877 11 09 857 13 04- 810 10 04 556 10- 11- 485 15- 18- 338 34- 45- 256 51- 219 58- 124 57- 113 59- 030 55-	219	11500	58-																														
	01 6247+	027	026	670	975 14 12 942 16 14 914 14 09 898 16 03 861 12 05 753 08 02 707 03 02- 566 09- 13- 517 11- 16- 482 15- 22- 434 19- 22-	200	12220	60-																														
Ocean Weather Station 'I'  59°00'N 19°00'W	50 564++	018	018	811	887 03 02 729 03- 07- 626 09- 15- 468 23- 30- 382 35- 42- 369 ++ 43- 340 40- 48- 284 45- 142 47- 110 50- 100 49- 080 51- 068 49-	284	09600	45-																														
	02 35600	027	027	725	950 ++ 04 941 04 02 919 06 01- 912 ++ 03- 840 ++ 05- 824 02 11- 807 03 15- 705 03 18- 690 01- 22- 600 ++ 16- 524 14- 22- 326 40- 46- 236 58- 215 58- 189 52- 109 53- 062 52-	236	10900	58-																														
Ocean Weather Station 'J'  52°30'N 20°00'W	51 8052+	022	022	719	005 ++ 11 959 12 11 785 05 04 719 00 01- 616 ++ 08- 556 ++ 12- 434 21- 24- 387 28- 30- 309 40- 43- 230 57- 203 60- 183 53- 158 52- 111 56- 070 56-	203	11900	53-																														
	28 766++	027	027	681	979 14 12 912 12 10 879 12 08 845 09 05 829 10 05 783 06 01 738 ++ 02- 708 02- 13- 689 ++ 10- 652 03- 14- 629 ++ 22- 556 ++ 31- 546 ++ 16- 533 ++ 15- 506 12- 23- 438 20- 26- 387 26- 33- 302 40- 47- 203 57- 189 55- 122 57- 118 55- 040 55-	208	11900	57-																														



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					
181141	53.5°N	25.3°W	027	020	705	061	11 07	222	10 07	1094	08 05	1567	08 05	2063	05 03	03 01-	3143	01- 03-	03- 06-	4365	06-12-	11- 15-	5770	13- 22-
Cloud :— 5/8 Sc. 2500ft to 3500 ft. 6/8 Sc. 5000 ft. to 6000 ft. 1/8 Ac. at 8000 ft. 3/8 Ac. 15000 to 16000 ft. 1/8 Cs. 25000 ft. to TNG																								
Inversion Levels :— 973 to 950mb 7½°C to 9½°C												Isothermal Levels :—												
YYGGgg	POSITION		PRESSURE			SURFACE		1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb						
			MSL	Surf.	0°C level	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C					
181313	57.3°N	23.3°W	029	021	699	061	09 02	253	03 00	1112	07 28-	1579	06 28-	2073	04 32-	03 29-	3148	00 13-	03- 16-	4368	07- 21-	10- 23-	5770	15- 32-
Cloud :— 7/8 Sc. 2700 to 3300 ft. 1/8 Cl. 25000 ft. to TNG.																								
Inversion Levels :— 950 to 900mb 3½°C to 7½°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 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	174mb 270 51 17600/5 11300/1 12250/1 P. 26100m 080 16 21900m 040 06 09800/1 20190/2	260 102 09370m 260 114 10000m 260 83 09240m 320 103 09000m
STORNOWAY 03026	167mb 250 46 089mb 260 20 12650m 260 67 16500m 270 28 12010/1 12420/1 055mb 270 10 19200m 300 12 15910/1	260 110 10420m 260 114 11010m 260 86 10430m
SHANWELL 03170	17360m 300 14 21600m 090 05 12500/1 13090/1 14180/1 177mb 270 54 22700m 040 09	260 60 08600m 270 75 12200m 250 82 11020m
ALDERGROVE 03917	19050/3 20950/2 26100m 090 18 12250/1 21000/9 08020m 290 52 12850m 290 56 24300m 090 15 04630/1 09480/0 12100/1 14150/1 20300/2	280 75 11520m 290 87 10800m
AUGHTON 03322	P.28500m 080 32 25200m 090 19 24900m 060 18 10890/0 12120/1	290 75 11790m
HEMSBY 03496	13500m 290 33 19800m 040 11 108mb 320 17 11470m 310 41 13700m 290 33	
CRAWLEY 03774	28800m 080 32 33000m 100 38 34800m 100 33 02420/2 17320/2 060mb 090 06 21600m 080 12 10550/2 18370/4	
CAMBORNE 03808	P.26100m 100 28 09410m 190 35 13440m 240 21 19500m 070 21 08910/0 09410/0 11590/4 14090/2 172mb 330 23 P.24600m 080 23 08240m 330 27 21600m 070 08 11640/1	
VALENTIA 03953	915mb 170 11 81Cmb 220 15 256mb 280 13 124mb 250 23 00300m 330 06 00600m 320 05 18000m 350 05 20100m 130 10	
Ocean Weather Station 'I' 59°00'N 19°00'W	16500m 230 19 12600/6 087mb 270 16 19800m 260 06	
Ocean Weather Station 'J' 52°30'N 20°00'W	173mb 240 44 123mb 240 26 073mb 230 08 13500m 240 55 19500m 230 06 13700/1 132mb 240 25 044mb 110 12 20400m 000 00 04940/2 10200/3 12130/1 12900/0 14400/1	220 78 10350m 230 78 11620m 230 61 11600m
LARKHILL 03743		

## NOTES ON THE AEROLOGICAL SITUATION

The trough over Labrador is swinging slowly eastward and the tilted ridge over the northwestern Atlantic is building eastward to link with the tilted ridge over the eastern Atlantic which is building westward.

The cut-off low near the Azores is drifting slowly northward. The trough between Iceland and Scotland is moving southeast.

The weak tilted trough over the Mediterranean is slow moving.

Cyclogenesis has occurred over northwest Russia and the new low is tending to drift slowly northeast.

AVERAGE AND EXTREME VALUES 1951-55

JUNE

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

Press. Level	Average		Extreme Temps.			Wind*	
	Height	Temp.	Max.	Min.			
					V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	
40	22345	-48.1	-42	-55	120	3	
60	19675	-48.1	-41	-55	120	3	
100	16320	-48.8	-41	-56	244	5	
150	13660	-48.3	-41	-59	263	10	
200	11770	-49.8	-39	-67	271	16	
300	9125	-46.7	-37	-56	271	22	
400	7160	-32.6	-23	-44	271	18	
500	5555	-20.8	-11	-31	269	14	
700	2985	-5.2	3	-14	266	9	
850	1435	2.8	14	-7	269	6	
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		

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

Press. Level	Average		Extreme Temps.			Wind*	
	Height	Temp.	Max.	Min.			
					V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	
40	22310	-49.6	-47	-57	106	9	
60	19675	-51.4	-45	-59	136	3	
100	16370	-52.6	-46	-61	251	8	
150	13745	-51.8	-42	-65	265	15	
200	11890	-54.0	-40	-65	268	20	
300	9265	-44.7	-36	-54	265	20	
400	7275	-29.6	-19	-41	265	17	
500	5640	-17.8	-9	-28	263	15	
700	3050	-2.1	7	-10	263	11	
850	1480	5.7	16	-3	264	7	
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		

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

Press. Level	Average		Extreme Temps.			Wind*	
	Height	Temp.	Max.	Min.			
					V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	
40	(22185)	(-60.7)	...	...	120	5	
60	19670	-60.7	-53	-69	135	4	
100	16510	-62.9	-57	-71	255	21	
150	13995	-59.0	-51	-67	265	38	
200	12185	-56.6	-47	-67	275	42	
300	9530	-40.1	-33	-46	285	32	
400	7500	-23.9	-19	-29	285	27	
500	5835	-11.8	-8	-17	285	24	
700	3165	7.2	13	-1	290	18	
850	1535	17.9	27	8	290	9	
Tropo- pause		Average Press.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
Upper		mb.	mb.	mb.	°C	°C	
Lower		123	266	...	...	...	

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.

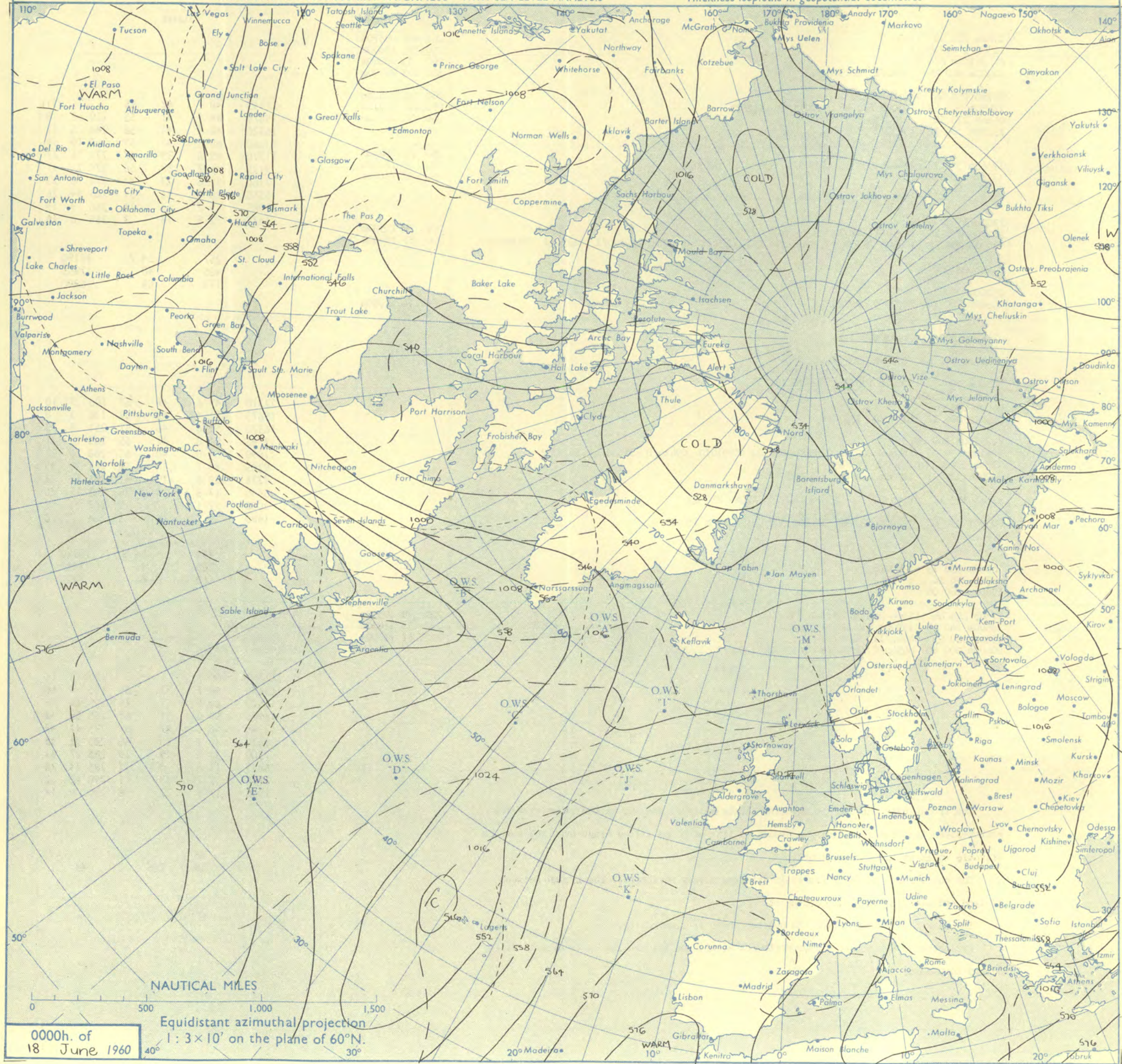
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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

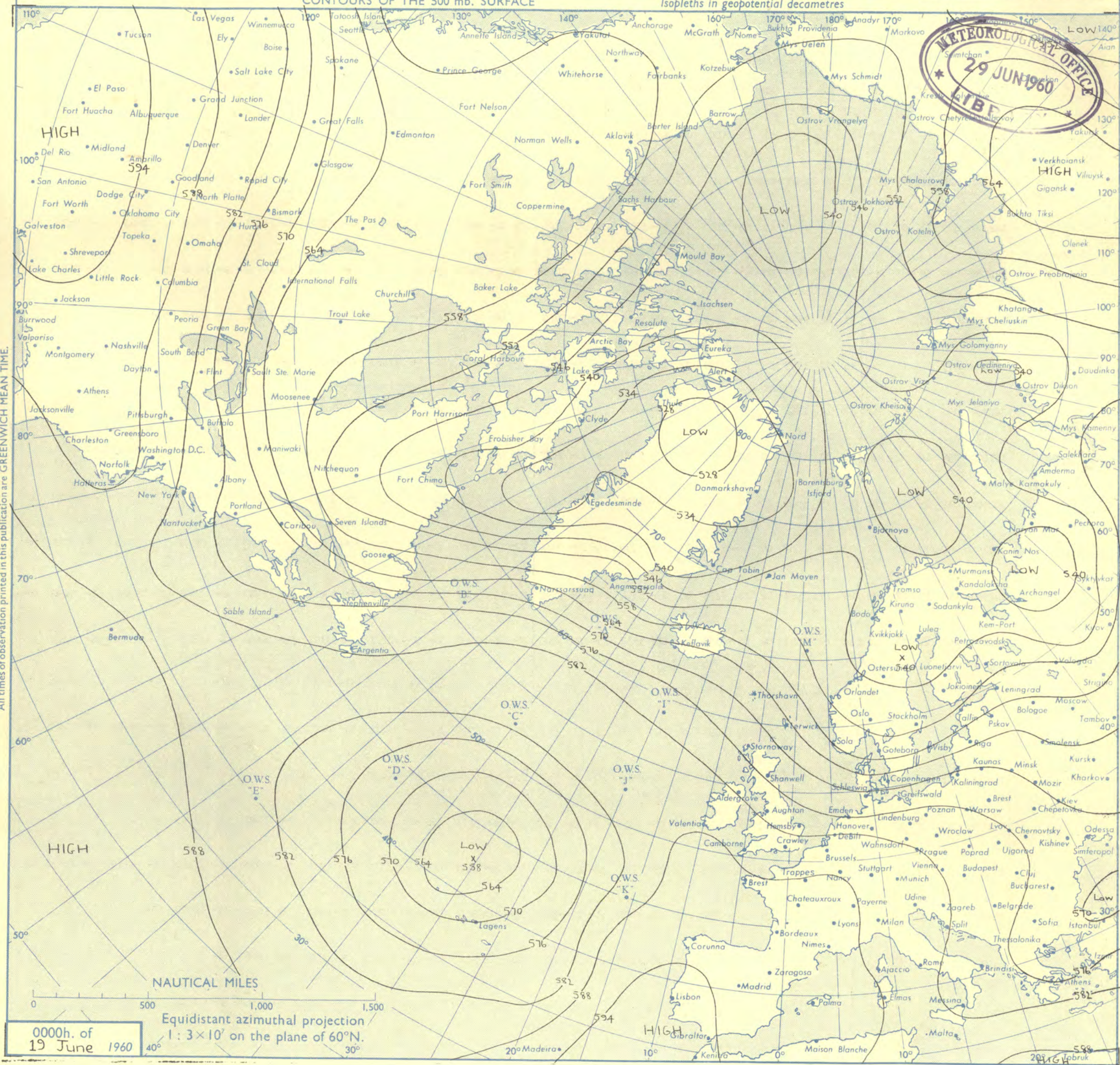




CONTOURS OF THE 500 mb. SURFACE

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		
LERWICK 03005	182245	082	10	09	155	10	08	1489	04	01-	3043	02-	18-	5637	18-	29-	7270	29-	37-	9250	46-	++	11898	46-	13803	48-	16480	49-	18838	46-				
	191104	082	09	08	157	08	07	1474	01-	01-	3021	02-	02-	5646	13-	14-	7316	24-	26-	9358	37-	40-	12051	55-	13909	50-	16574	48-	18935	45-	21178	46-		
STORNOWAY 03026	182300	013	10	08	223	10	07	1551	04	15-	3118	00	12-	5734	15-	22-	7380	28-	35-	9379	44-	++	12016	53-	13892	51-	16537	51-	18861	51-	21058	50-	24414	49-
	191100	013	14	08	217	10	06	1549	08	14-	3125	01-	02-	5754	14-	17-	7418	24-	28-	9447	41-	++	12080	61-	13869	56-	16461	55-						
SHANWELL 03170	182300	005	14	07	205	13	05	1553	08	05-	3130	02	16-	5753	15-	30-	7404	27-	41-	9403	44-	++	12021	52-	13895	50-	16527	52-	18831	52-	21017	50-	24361	49-
	191100	005	19	03	215	14	01	1559	07	13-	3131	01-	14-	5756	14-	21-	7424	24-	31-	9459	39-	46-	12119	59-	13928	55-	16536	54-	18834	53-	21007	53-	24321	52-
ALDERGROVE 03917	182310	077	12	09	239	11	08	1586	07	06-	3168	02	20-	5816	14-	37-	7471	26-	48-	9485	42-	++	12136	54-	13992	53-	16598	53-	18898	52-	21102	48-		
	191100	077	16	11	243	14	07	1595	09	05-	3189	03	21-	5845	12-	29-	7510	25-	39-	9530	41-	++	12169	59-	13977	57-	16543	58-	18794	57-	20933	55-		
AUGHTON 03322	182300	056	13	12	220	14	12	1581	09	01	3164	02	19-	5805	13-	41-	7460	27-	50-	9472	42-	++	12125	54-	13976	54-	16581	55-	18834	54-	21010	51-	24341	50-
	191100	056	16	09	234	12	07	1586	09	10-	3178	03	23-	5820	14-	29-	7478	26-	40-	9484	45-	++	12101	56-	13934	56-	16520	56-	18791	54-	20964	52-		
HEMSBY 03496	182300	012	15	13	201	15	13	1566	10	08	3164	02	02-	5798	16-	19-	7446	26-	30-	9464	42-	++	12093	58-	13914	55-	16490	58-	18735	57-	20881	54-	24161	53-
	191100	012	17	12	221	13	09	1567	07	04-	3152	03	24-	5790	14-	29-	7440	27-	40-	9445	43-	++	12082	53-	13940	53-	16547	54-	18827	55-	20988	52-	24292	52-
CRAWLEY 03774	182300	144	19	17	198	20	17	1587	12	10	3198	05	02-	5854	13-	19-	7514	25-	35-	9543	40-	45-	12197	58-	14013	57-	16572	58-	18828	56-	20981	54-	24292	50-
	191100	144	21	13	221	19	10	1587	09	02-	3180	04	08-	5837	13-	31-	7500	25-	42-	9520	40-	50-	12177	56-	14011	55-	16582	56-	18845	55-	21009	54-	24313	51-
CAMBORNE 03808	182300	088	14	14	217	14	13	1599	14	06	3210	04	13-	5864	11-	24-	7534	24-	30-	9556	41-	++	12202	57-	14002	60-	16533	60-	18772	58-	20915	54-	24224	50-
	191100	088	19	15	229	17	13	1607	13	07	3215	04	07-	5880	11-	21-	7548	25-	32-	9572	40-	48-	12210	58-	14072	60-	16560	58-	18825	54-	21015	50-	24365	49-
VALENTIA 03953	190000	014	14	13	233	15	10	1606	12	07	3205	02	05-	5060	12-	20-	7520	25-	30-	9550	40-	46-	12190	57-										
	191130	014	20	15	238	18	15	1614	11	02	3212	02	05-	5860	13-	23-	7520	25-	34-	9540	42-	++	12160	61-	+++++	++	16400	63-						
Ocean Weather Station 'I' 59°00'N 19°00'W	182300		11	08	233	08	06	1570	08	11-	3158	02	09-	5810	12-	22-	7480	23-	29-	9510	40-	45-	12160	59-	13990	54-	16590	53-	18910	50-	21110	49-	24470	46-
	191100		11	08	215	09	07	1562	10	04-	3154	02	03-	5820	10-	19-	7500	25-	31-	9550	39-	45-	12220	57-	14000	58-	16560	57-	18830	53-				
Ocean Weather Station 'J' 52°30'N 20°00'W	182300		13	13	220	13	11	1600	11	08	3198	02	00	5850	12-	26-	7520	24-	31-	9560	38-	46-	12230	53-	14070	56-	16660	56-						
	191100		13	13	214	13	11	1580	11	07	3180	02	02-	5820	13-	24-	7490	24-	47-	9530	40-	50-	12190	54-	14040	54-	16640	56-	18910	52-	21100	50-		



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 782++	019	009	881	007 11 09 963 ++ 06 928 06 04 865 ++ 01- 820 ++ 03- 773 00 07- 758 ++ 08- 748 00 18- 733 00 24- 710 ++ 18- 555 ++ 28- 464 21- 31- 338 40- 48- 258 55- 242 55- 218 46- 100 49- 067 46- 063 48-	258	10210	55-
	63 6732+	019	009	870	003 08 07 862 01- 01- 819 02- 02- 726 01- 01- 666 03- 03- 619 07- 07- 492 13- 14- 319 35- 37- 280 40- 43- 187 58- 181 52- 111 48- 100 48- 084 48- 071 45- 049 46-	187	12460	58-
STORNOWAY 03026	03 32500	027	026	696	992 09 06 940 ++ 03 924 04 00 885 03 06- 860 ++ 15- 820 04 17- 775 02 22- 761 03 18- 736 ++ 11- 696 00 12- 466 19- 26- 331 39- 46- 243 53- 220 56- 178 49- 105 51- 030 49-	220	11400	56-
	02 755++	026	025	713	982 08 05 917 04 03 893 06 00 871 ++ 12- 855 08 13- 833 08 11- 805 06 04- 783 05 04- 738 01 04- 724 01 02- 705 01- 03- 677 01- 04- 658 03- 05- 650 03- 04- 615 05- 11- 595 ++ 11- 581 06- 12- 545 09- 13- 489 15- 18- 471 18- 21- 460 17- 20- 443 18- 22- 306 40- 43- 249 52- 177 66- 161 57- 113 54- 101 55- 082 49-	177	12820	66-
SHANWELL 03170	00 14500	025	024	675	891 08 00 878 09 01- 818 06 08- 745 02 15- 735 03 14- 691 01 17- 633 04- 22- 455 19- 33- 323 40- 50- 239 56- 221 58- 204 52- 142 50- 121 53- 030 49-	221	11400	58-
	02 10932	025	025	710	010 15 02 956 10 01- 929 07 06- 919 08 06- 874 04 13- 851 07 13- 810 ++ 17- 745 03 12- 684 02- 14- 613 05- 12- 470 15- 22- 297 40- 46- 265 46- 188 61- 181 58- 170 60- 139 52- 094 54- 030 52-	188	12500	61-
ALDERGROVE 03917	01 655++	029	019	639	947 07 05 930 10 04 920 ++ 00 902 10 01- 883 ++ 05- 848 07 06- 792 ++ 17- 764 05 16- 744 05 16- 698 02 20- 673 03 22- 310 40- 50- 231 54- 138 53- 122 55- 090 54- 067 52- 058 48- 047 48-	231	11200	54-
	02 11601	029	020	644	010 ++ 07 948 ++ 05 936 08 02 903 10 01- 826 08 08- 766 08 17- 593 04- 23- 579 04- 23- 375 28- 42- 330 36- 48- 307 ++ 50- 233 55- 218 55- 189 62- 176 58- 084 58- 037 54-	189	12510	62-
AUGHTON 03322	02 00900	027	020	663	007 14 12 993 13 11 976 14 10 943 13 10 904 11 03 882 11 31 833 ++ 01 789 ++ 03- 764 05 07- 744 05 11- 653 ++ 28- 588 05- 35- 309 40- 50- 245 52- 223 54- 134 52- 113 55- 081 56- 065 53- 030 50-	223	11400	54-
	02 31501	028	021	653	009 12 06 980 ++ 05 968 09 03 908 11 04- 896 10 09- 886 11 10- 816 08 13- 779 08 17- 755 06 19- 730 06 20- 630 ++ 27- 502 ++ 28- 412 24- 39- 328 40- 50- 214 59- 174 55- 095 57- 043 50-	214	11670	59-
HEMSBY 03496	02 4097+	024	022	665	016 ++ 13 931 12 10 900 13 08 846 ++ 08 758 06 04 727 ++ 00 650 01- 05- 608 04- 14- 538 13- 18- 520 14- 17- 475 18- 21- 387 ++ 32- 360 ++ 37- 310 40- 46- 254 51- 217 57- 192 59- 148 55- 091 59- 055 54- 030 53-	192	12350	59-
	02 38500	026	025	659	013 14 09 986 12 09 966 12 06 873 05 03 862 05 04 855 07 04- 821 06 08- 811 07 09- 787 07 14- 752 04 22- 712 04 24- 645 ++ 28- 475 17- 30- 316 40- 50- 274 49- 242 54- 192 52- 079 56- 048 52- 030 52-	242	10880	54-
CRAWLEY 03774	03 70960	023	006	644	991 22 17 988 ++ 16 910 ++ 14 852 12 10 816 ++ 09 802 ++ 04 792 ++ 04 771 10 00 642 ++ 05- 600 ++ 12- 550 ++ 14- 466 ++ 24- 392 ++ 37- 362 ++ 34- 302 ++ 45- 296 41- 208 58- 078 57- 030 50-	208	11910	58-
	02 31500	026	009	646	987 17 09 908 ++ 08 878 09 04 869 10 02 856 ++ 01- 832 08 03- 810 09 01- 770 06 01- 684 03 10- 646 00 11- 628 02- 12- 608 01- 18- 314 39- 50- 227 54- 204 56- 112 58- 101 56- 093 58- 064 53- 030 51-	204	12010	56-
CAMBORNE 03808	51 9+0++	026	015	641	000 14 13 984 17 15 953 ++ 11 947 17 13 938 ++ 13 895 15 03 880 ++ 04 835 14 05 752 08 01 723 ++ 00 714 05 01- 700 ++ 13- 681 04 12- 638 ++ 05- 555 08- 14- 539 09- 19- 480 13- 27- 458 16- 23- 434 19- 27- 388 27- 33- 344 ++ 41- 307 40- 47- 228 55- 191 59- 098 60- 030 50-	191	12480	59-
	02 12530	027	017	645	002 17 13 975 18 15 909 14 11 875 11 09 850 13 07 830 13 03 724 ++ 03- 645 00 13- 612 02- 11- 602 02- 11- 503 11- 22- 496 12- 19- 457 16- 24- 417 22- 30- 302 40- 48- 252 51- 207 58- 155 58- 126 62- 121 59- 073 57- 061 50- 030 49-	207	12010	58-
VALENTIA 03953	02 16200	028	026	670	020 15 09 976 16 11 886 12 06 859 12 07 757 06 00 725 03 04- 624 02- 10- 582 07- 13- 547 08- 14- 462 16- 25- 344 34- 38- 275 45- 233 55- 184 59- 172 57- 151 60-	233	11100	55-
	03 68500	028	026	660	013 19 15 884 10 08 871 12 08 825 10 01 651 01- 11- 633 03- 12- 529 10- 18- 505 13- 22- 481 14- 23- 446 19- 27- 440 19- 27- 325 38- 47- 280 45- 233 56- 229 55- 188 64- 120 65- 108 68- 092 58- 076 59- 063 63- 051 64- 034 60-	188	12500	64- 063 19400 63-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 756++	028	028	676	950 04 04 937 03 00 921 08 01 900 ++ 08- 885 09 10- 824 ++ 14- 786 ++ 04- 775 06 05- 672 ++ 11- 639 03- 11- 599 04- 10- 501 12- 22- 410 22- 28- 220 57- 199 60- 137 57- 134 54- 102 53- 074 50- 041 49-	199	12200	60-
	02 53501	026	026	640	955 05 05 936 10 07- 909 10 09- 857 10 06- 836 ++ 02- 770 ++ 03- 720 ++ 02- 681 01 04- 642 00 07- 580 ++ 14- 538 06- 15- 446 16- 24- 385 24- 30- 345 31- 39- 293 40- 46- 173 64- 161 62- 155 58- 094 57- 063 51- 053 52-	173	13100	64-
Ocean Weather Station 'J' 52°30'N 20°00'W	45 9+1++	028	028	664	007 13 12 970 ++ 03 954 16 10 947 ++ 12 824 ++ 07 793 ++ 01 743 05 01 709 ++ 02 685 01 02- 617 02- 11- 562 ++ 24- 535 ++ 28- 443 ++ 26- 373 27- 33- 292 40- 47- 230 53- 214 52- 174 56- 110 55- 087 57-	230	11300	53- 174 13100 56-
	50 854++	026	026	682	010 ++ 11 991 13 12 932 11 10 913 12 11 867 ++ 09 831 11 05 818 ++ 03 800 ++ 06 791 08 05 783 08 04 762 08 06- 754 ++ 01- 676 01- 03- 617 ++ 13- 591 06- 15- 558 06- 25- 532 ++ 22- 501 ++ 23- 466 ++ 37- 354 31- 49- 298 40- 50- 251 51- 225 54- 119 53- 110 56- 088 56- 054 50- 047 50-	225	11400	54-



STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	182245	T	310 17	+++ ++	310 22	310 28	310 32	310 36	310 34	320 57	320 57	320 65	330 63	300 45	300 29	310 09	P330 19	290 05			
	190500	P	300 12	+++ ++	300 23	300 26	310 27	300 34	300 41	310 45	320 54	330 66	340 90	330 52	320 37	310 27	320 15	010 11			
	191112	P	270 04	+++ ++	290 34	300 37	300 33	310 52	310 51	310 63	320 71	320 95	330105	340112	320 44	310 27	030 06				
	191700	P	280 22	+++ ++	300 31	310 36	320 38	310 48	310 57	320 63	320 70	320 75	320 78	320 76	320 76						
STORNOWAY 03026	182300	T	270 08	300 21	300 23	300 25	310 30	310 31	300 37	310 43	310 37	300 39	300 39	310 44	300 46	300 27	300 18	320 06	070 06		
	190510	P	280 08	+++ ++	290 23	300 27	300 26	300 33	300 41	300 38	320 45	320 46	350 59	330 44	310 36	310 24	310 13	010 10	060 14	090 14	
	191100	T	270 22	270 22	270 24	290 28	300 32	300 33	300 44	310 42	320 47	330 44	340 56	360 62	320 32	310 21					
	191700	P	270 20	+++ ++	280 26	290 32	300 34	310 42	320 38	310 45	310 44	310 45	320 46	330 44	320 28	310 16	340 10	010 07			
SHANWELL 03170	182300	T	300 15	300 25	300 13	310 12	300 21	310 29	300 36	310 39	300 36	300 41	300 43	300 53	300 43	290 21	320 16	020 06	030 14	P070 21	
	190500	P	280 02	+++ ++	320 08	330 09	320 18	310 29	310 34	310 35	320 35	330 41	340 48	320 47	320 35	310 29	300 10	010 08	050 17		
	191100	T	290 06	+++ ++	290 10	280 10	310 32	310 35	310 45	320 43	330 40	340 53	360 50	010 69	330 44	310 21	320 13	030 08	C70 08	P090 25	
	191700	P	270 08	+++ ++	310 19	320 19	310 25	310 32	320 41	310 45	320 41	320 43	330 42	350 52	330 34	320 25	340 11	020 11	060 13		
ALDERGROVE 03917	182310	T	360 05	+++ ++	330 14	310 16	320 16	320 16	310 19	310 32	300 39	290 70	290 78	300 67	300 43	310 18	010 08	070 10			
	190500	P	340 06	+++ ++	330 11	320 14	320 17	330 16	310 21	310 25	320 32	310 40	300 57	300 57							
	191100	T	310 03	+++ ++	310 07	320 14	310 16	310 17	310 23	320 23	330 23	350 27	020 33	020 25	310 29	310 20	P010 05	060 07	070 16		
	191700	P	360 08	+++ ++	290 11	300 15	310 17	310 17	310 24	310 23	300 21	320 14	040 15	070 14	310 24	320 20	350 12	040 10	070 16	080 15	
AUGHTON 03322	182300	T	300 05	+++ ++	350 10	330 15	290 22	290 26	300 19	310 25	300 35	300 62	300 78	300 65	300 46	290 22	300 10	070 11			
	190500	P	000 00	+++ ++	310 11	320 16	310 18	310 17	320 22	320 29	310 34	310 47	290 76	300 69	300 46	310 33	360 08				
	191100	T	300 10	+++ ++	310 13	310 13	310 12	310 17	320 25	320 32	340 29	010 37	020 39	330 44	320 37	320 22	350 10	050 09			
	191700	P	290 08	+++ ++	310 15	310 15	320 15	320 19	320 26	320 30	320 30	340 24	020 30	040 39	320 29	320 24	020 06	060 06			
HEMSBY 03496	182300	T	350 08	360 16	350 17	300 21	280 28	280 31	280 40	280 43	280 42	290 51	280 59	300 57	300 44	300 25	330 14	030 07	030 05		
	190500	P	020 08	+++ ++	360 12	330 19	310 18	300 24	300 22	300 25	300 36	300 40	300 68	300 61	310 39	300 32	340 15	030 08			
	191100	T	030 12	+++ ++	300 11	310 15	320 17	320 20	320 26	320 32	320 34	320 38	320 41	320 48	310 38	320 25	340 13	050 10	030 12		
	191700	P	030 10	+++ ++	300 15	300 26	310 24	320 29	320 30	320 35	330 38	340 42	360 50	010 60	330 33	320 28	350 18	040 17			
CRAWLEY 03774	182300	T	000 00	+++ ++	360 11	030 08	280 14	280 17	290 19	290 23	290 25	300 37	320 48	320 57	310 39	320 15	350 06	060 07	080 18		
	190500	P	020 10	+++ ++	020 16	310 13	300 15	300 21	290 23	290 27	300 36	310 45	310 63	310 65	320 45	310 26	010 10				
	191100	T	060 10	+++ ++	020 07	340 12	310 20	300 21	310 17	330 26	310 37	310 63	300 78	310 70	310 51	310 22	350 06	060 15	070 19	P100 22	
	191700	P	220 07	+++ ++	330 10	330 18	330 21	330 15	320 18	330 24	340 25	010 24	030 37	030 33	320 39	320 27	020 07	020 06			
CAMBORNE 03808	182300	T	360 03	+++ ++	030 13	030 09	340 08	340 10	290 11	300 28	310 25	310 39	310 46	300 34	310 25	320 09	040 03	110 09	P080 14	080 28	
	190500	P	020 10	+++ ++	040 12	350 09	330 09	330 10	300 19	310 19	300 30	290 37	280 43	290 46	300 28	310 20	360 06	060 12	080 24		
	191100	T	010 13	+++ ++	010 13	360 06	330 09	320 14	320 17	310 18	300 27	280 34	270 43	280 37	300 20	310 07	060 10	080 10	080 21		
	191700	P	360 07	+++ ++	340 06	340 07	330 16	320 21	320 15	320 14	310 16	310 21	310 28	300 22	300 22	310 09	360 06	070 10	070 16		
VALENTIA 03953	182300	P	000 00	+++ ++	070 07	040 05	310 10	300 11	310 17	290 17	270 25	270 37	270 42	270 30	290 27	270 13					
	191130	T	280 04	180 05	+++ ++	240 04	+++ ++	280 09	+++ ++	220 07	270 11	280 20	+++ ++	280 15	+++ ++	300 10					
Ocean Weather Station 'I' 59°00'N 19°00'W	182300	T	270 17	250 18	270 17	270 18	280 20	280 21	290 24	290 22	290 26	330 26	030 42	360 60	310 26	290 17	290 14	030 05	070 04		
	190500	P	270 20	+++ ++	260 28	270 25	280 26	280 29	280 30	240 24	310 24	350 11	010 20	350 27	320 18	300 18					
	191100	T	250 24	+++ ++	260 24	270 20	280 21	280 28	270 23	280 17	280 13	270 13	190 06	120 12	240 07	260 11	310 07				
	191700	P	270 20	+++ ++	250 22	260 21	250 19	240 17	250 22	240 21	210 15	200 12	170 19	160 33	170 16	280 12					
Ocean Weather Station 'J' 52°30'N 20°00'W	182300	T	090 15	+++ ++	130 15	120 11	160 09	170 13	170 12	150 07	180 13	170 14	190 22	210 32	210 10	240 07					
	190500	P	090 20	+++ ++	120 16	120 18	120 18	130 13	140 16	150 16	120 23	140 22	140 24	150 25	170 15	000 00					
	191100	T	100 16	130 20	130 20	130 27	130 24	140 24	150 27	140 33	140 31	150 40	140 40	120 44	110 22	130 09	120 04				
	191700	P	135 20	+++ ++	140 21	140 21	140 24	140 24	140 28	140 30	150 39	140 46	130 48	120 56	130 26	130 14	140 13				
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 °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :— Inversion Levels :—														
Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
Cloud :— Inversion Levels :—														
Isothermal Levels :—														
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	P21600m 320 06 22500m 060 09 11100/1 12050/7 12600m 330 75 20400m 290 07 12850/1 13150/7 08400/1	320 67 09050m 330 101 10900m 340 117 12120m 310 89 08130m
STORNOWAY 03026	11750/1 087mb 330 19	360 72 11500m 360 67 11990m
SHANWELL 03170	P27600m 090 20 24900m 090 14 16870/1 19040/2 21310/2 24600m 070 13	010 70 11730m
ALDERGROVE 03917	340mb 300 52 126mb 300 32 13500m 300 51 10430/0 P25500m 080 22 11140m 050 24 13640m 320 22 09400/2 10280/0 12100/1 12640/5 13130/0 18130/4	290 82 10780m
AUGHTON 03322	042mb 080 07 09360/0 09830/0 11710/1 12720/1 12570/7	300 88 11230m 290 83 11450m
HEMSBY 03496	P25600m 110 21 13000m 300 51 22500m 070 18 10400/0 11830/1 P26400m 090 20 12800m 350 41 19500m 010 05 12560/1 13120/5 18820/2	300 78 10610m 010 64 11740m
CRAWLEY 03774	19500m 030 13 12330/5 18170/2	320 65 11720m 310 70 12810m 300 84 11010m
CAMBORNE 03808	27300m 080 25 24000m 090 25 12320/1 25500m 080 21 24000m 080 20	
VALENTIA 03953	00300m 070 07 00600m 070 07 18000m 330 04 19200m 340 06 440mb 240 09 233mb 280 21 120mb 270 11 034mb 080 12	
Ocean Weather Station 'I' 59°00'N 19°00'W	287mb 350 32 175mb 340 40 16800m 300 15 07900/4 09820/0 13590/7 265mb 220 07 162mb 190 06 060mb 310 07 13500m 160 24 14700m 210 09 18000m 290 20 11220/0 14400/4 15050/2	350 66 12180m
Ocean Weather Station 'J' 52°30'N 20°00'W	175mb 200 15 092mb 240 07 17100m 000 00 051mb 100 20 12950/1	120 61 11680m
LARKHILL 03743		

## NOTES ON THE AEROLOGICAL SITUATION

The most striking change has been the link-up, across the middle of the Atlantic, of the eastern and western upper ridges, turning a predominantly cyclonic pattern into an anticyclonic one. The cyclonic vorticity has become confined to a cut-off vortex on the south side. The thermal chart shows particularly warm air south of Greenland. The line of 1000 - 500mb thickness 5640m., in particular, whilst not unknown on the Greenland coast in June - it was there, for example, for a day or two in June 1958 - has nevertheless a June mean location south of the Azores.

AVERAGE AND EXTREME VALUES 1951-55  
JUNE

LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
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 <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		

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

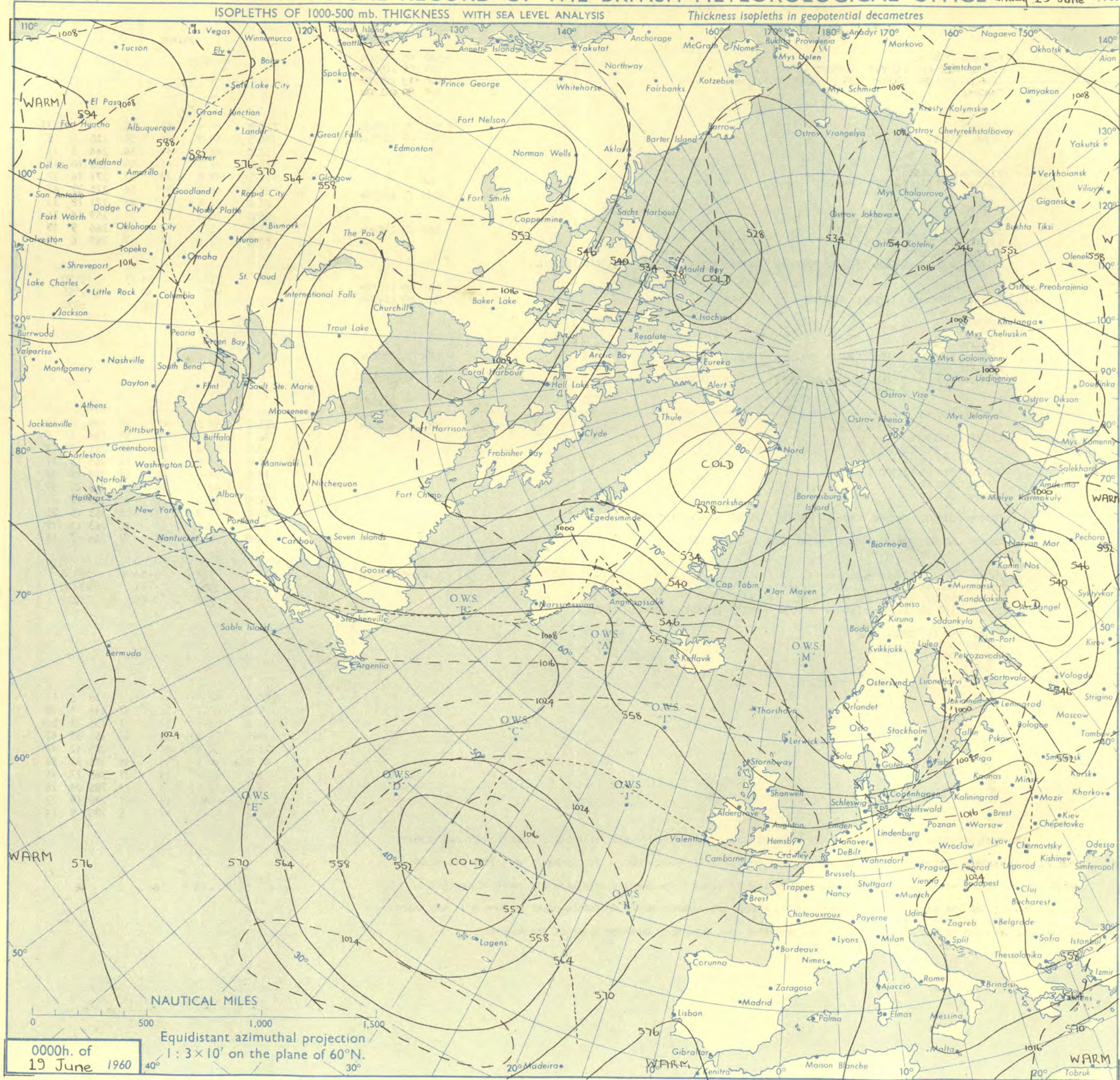
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5 11
60	19670	-60.7	-53	-69	135	4 10
100	16510	-62.9	-57	-71	255	21 24
150	13995	-59.0	-51	-67	265	38 42
200	12185	-56.6	-47	-67	275	42 47
300	9530	-40.1	-33	-46	285	32 38
400	7500	-23.9	-19	-29	285	27 31
500	5835	-11.8	-8	-17	285	24 28
700	3165	7.2	13	-1	290	18 22
850	1535	17.9	27	8	290	9 14
Tropopause		Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.
Upper		mb. 123	°C -65.7	mb. ...	mb. 73	°C ...
Lower		193	-59.8	266	...	-46 ...

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.

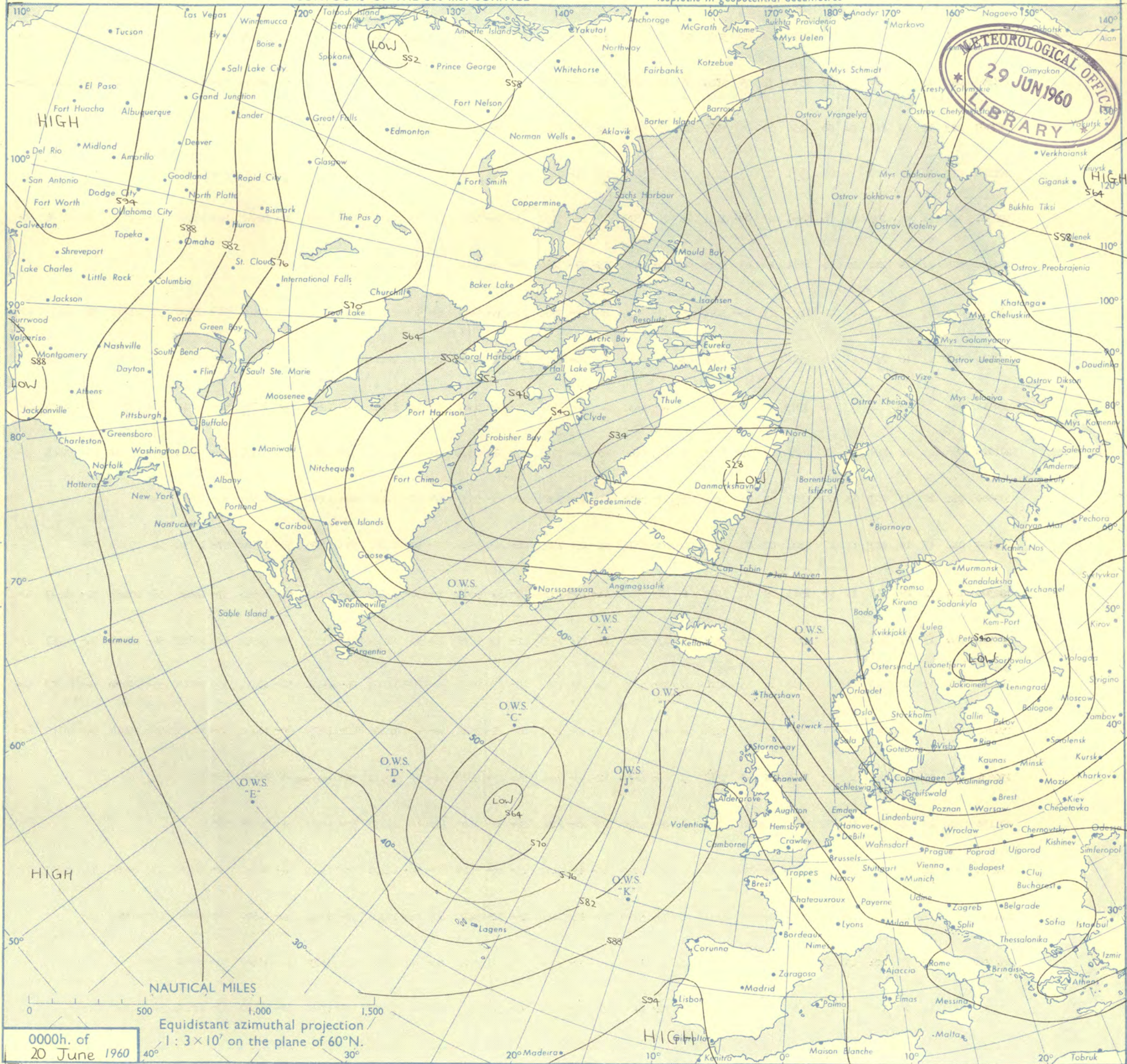
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.







Isopleths in geopotential decametres





STATION	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	192245	082	10	10	147	10	10	1479	03	02	3050	00	02	5691	13	16	7356	24	34	9395	39	49	12062	57	13877	56	16479	53	18791	50	20992	50	24349	47						
	201100	082	12	12	160	10	10	1513	11	05	3124	06	02	5794	11	15	7472	21	26	9536	36	47	12227	56	14055	53	16675	53	18996	49	21218	47	24622	43						
STORNOWAY 03026	192307	013	12	09	213	10	08	1556	08	06	3161	04	03	5815	12	26	7491	22	39	9544	38	49	12209	59	13990	57														
	201100	013	16	10	219	12	07	1571	10	03	3165	03	05	5821	11	21	7489	24	31	9527	39	46	12174	61	13954	57	16520	57												
SHANWELL 03170	192300	005	14	05	199	12	04	1557	09	03	3154	05	01	5813	11	22	7490	23	35	9543	37	49	12221	58	13991	58	16562	56	18848	52	21033	50	24376	50						
	201100	005	21	10	211	16	08	1571	10	05	3175	04	02	5824	13	27	7484	25	38	9522	38	49	12170	61	13929	61														
ALDERGROVE 03917	192300	077	09	05	235	10	08	1595	13	09	3201	06	17	5874	10	28	7560	21	36	9617	39	50	12278	59	14058	57	16626	56	18900	53	21078	51	24411	49						
	201100	077	17	10	232	13	08	1589	11	05	3187	03	08	5841	13	26	7503	25	38	9518	42	++	12140	63	13905	60	16435	61	18685	55	20828	56	24098	53						
AUGHTON 03322	192300	056	11	09	223	13	08	1579	10	13	3175	05	16	5837	11	26	7517	22	34	9567	38	49	12221	60	13992	60	16544	57	18811	54	20984	51	24324	49						
	201100	056	15	09	228	11	08	1589	12	03	3193	04	00	5848	13	22	7518	24	31	9544	41	++	12176	62	13927	62	16446	61	18668	59	20797	54	24065	52						
HEMSBY 03496	192300	012	12	11	207	13	09	1565	07	01	3152	03	07	5808	11	17	7484	22	29	9537	37	41	12193	60	13980	57	16546	56	18815	54										
	201100	012	17	10	212	13	07	1564	09	05	3165	04	01	5814	11	23	7485	24	36	9526	39	50	12187	59	13971	58	16526	57	18794	56	20945	53								
CRAWLEY 03774	192300	144	12	09	214	15	08	1583	09	02	3185	06	21	5853	11	29	7535	22	34	9583	39	50	12229	61	14010	58	16560	57	18815	56	20967	54	24277	50						
	201100	144	19	07	218	18	06	1590	13	14	3190	04	03	5853	10	21	7533	22	33	9578	39	50	12224	61	13995	59	16547	58	18819	56	20967	54	24257	53						
CAMBORNE 03808	192300	088	13	12	223	17	10	1602	14	13	3214	06	14	5885	11	25	7563	23	35	9593	39	49	12263	56	14074	58	16614	59	18848	59	20974	56	24243	54						
	201100	088	18	13	223	15	09	1596	13	15	3198	04	12	5854	13	30	7515	26	41	9532	42	++	12146	62	13938	60	16460	62	18682	60	20814	54	24112	47						
VALENTIA 03953	192334	014	15	13	240	16	13	1614	12	05	3218	03	03	5870	12	19	7540	24	33	9570	41	++	12210	58	++++	++	16570	59												
	201130	014	20	16	229	18	15	1603	11	04	3199	02	06	5840	14	28	7490	28	34	9510	42	++	12130	59	++++	++	16520	58												
Ocean Weather Station 'I' 59°00'N 19°00'W	192300		11	10	213	09	08	1565	10	20	3159	05	13	5820	12	33	7480	25	44	9510	39	50	12170	56	13990	57	16560	57	18830	55	20980	53	24300	51						
	201100		12	12	199	10	10	1556	10	06	3147	01	02	5790	13	22	7450	26	32	9470	40	46	12120	55	13970	55	16560	54	18880	50	21080	49								
Ocean Weather Station 'J' 52°30'N 20°00'W	192300		13	13	201	13	12	1561	10	07	3152	00	11	5780	15	37	7430	28	++	9420	44	++	12060	52	13930	50	16560	54	18840	54										
	201100		14	12	197	12	10	1539	05	00	3104	00	22	5720	16	32	7360	29	37	9360	44	++	11990	50	13880	48	16520	53	18820	54	20990	50								



## PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE																										TROPOPAUSE		
		MSL	Surf.	0°C level																									mb	m
LERWICK 03005	58 871++	018	008	700	852 03 02 794 03 02 723 ++ 02- 681 01- 02- 668 00 01- 620 04- 05- 562 ++ 09- 547 08- 12- 457 ++ 22- 447 ++ 27- 430 ++ 33- 308 37- 47- 293 40- 50- 276 44- 189 58- 166 59- 138 53- 100 53- 030 47-																							189	12400	58-
	50 772++	019	009	626	005 10 10 931 07 07 914 11 10 895 12 10 817 ++ 01 781 10 03 768 ++ 00 750 ++ 03 695 06 02 594 ++ 05- 506 11- 15- 475 13- 18- 447 17- 21- 437 ++ 23- 415 ++ 23- 379 25- 31- 342 27- 38- 280 40- 50- 207 55- 185 59- 147 53- 100 53- 048 46- 043 47- 030 43- Pressure doubtful above 050mb																							185	12730	59-
STORNOWAY 03026	01 855++	026	024	652	942 06 04 932 09 07 875 06 04 844 ++ 07 824 10 03 730 07 01 699 ++ 03- 667 01 03- 562 07- 14- 542 07- 18- 447 ++ 34- 346 29- 45- 287 40- 50- 215 57- 165 65- 151 57- 104 57-																							165	13410	65-
	02 15502	026	025	651	009 12 07 966 09 06 943 11 00 938 ++ 06- 912 ++ 10- 862 11 06- 847 ++ 04 835 ++ 04 817 08 04- 784 ++ 02 724 05 03- 690 ++ 06- 647 ++ 05- 608 ++ 10- 600 ++ 14- 580 ++ 13- 540 08- 21- 385 26- 32- 294 40- 47- 223 55- 183 64- 168 64- 150 57- 090 57- 075 53-																							183	12710	64-
SHANWELL 03170	02 24630	024	023	631	995 12 04 944 13 01- 854 ++ 06- 830 08 04 791 06 04 766 07 01- 755 08 01 728 ++ 03 628 00 05- 545 10- 13- 522 09- 18- 514 ++ 21- 444 17- 30- 359 27- 39- 283 40- 50- 212 56- 160 67- 153 65- 150 58- 135 56- 125 57- 095 56- 067 51- 030 50-																							160	13590	67-
	02 11501	025	024	650	018 18 10 988 ++ 10 882 08 06 825 11 02 774 09 02 724 05 02 702 04 02- 665 01 06- 552 08- 18- 522 ++ 24- 292 40- 50- 236 53- 170 68- 149 60-																							170	13164	68-
ALDERGROVE 03917	01 10930	029	019	616	006 10 08 970 ++ 07 965 09 06 942 13 04 926 ++ 01- 859 13 08- 783 10 20- 644 02 18- 409 20- 35- 365 26- 41- 292 40- 50- 246 50- 211 56- 185 63- 165 65- 150 57- 091 57- 072 53- 030 49-																							165	13450	65-
	01 15601	028	019	645	012 14 08 969 10 07 957 10 07 947 11 08 922 11 09 890 12 05- 756 02 07- 744 06 07- 572 05- 18- 515 12- 25- 402 25- 38- 363 32- 44- 311 ++ 50- 296 42- 203 63- 176 67- 169 66- 164 62- 129 59- 112 61- 099 61- 097 59- 080 58- 071 54- 063 56- 040 55- 030 53-																							176	12920	67-
AUGHTON 03322	02 00901	027	020	628	011 13 08 972 ++ 05 960 ++ 07 945 ++ 07 939 10 05 923 ++ 00 897 11 04- 867 10 09- 820 10 19- 809 10 17- 744 04 16- 734 05 14- 674 04 16- 400 22- 34- 290 40- 50- 178 67- 166 64- 162 60- 091 57- 049 51- 030 49-																							178	12930	67-
	02 38501	027	021	649	014 12 08 963 09 07 934 14 02 920 14 06- 906 ++ 02- 817 ++ 05- 793 09 01- 763 09 00 735 ++ 02 599 05- 10- 584 05- 12- 564 ++ 16- 491 14- 23- 470 15- 26- 447 18- 26- 433 19- 27- 348 33- 40- 305 40- 46- 276 44- 226 57- 182 67- 172 68- 145 60- 113 62- 097 60- 080 61- 050 54- 044 56- 030 52-																							172	13090	68-
HEMSBY 03496	02 10961	025	023	649	987 13 06 981 ++ 05 961 ++ 10 920 11 05 895 ++ 07 872 ++ 02 842 07 00 820 ++ 14- 809 ++ 16- 800 08 12- 781 ++ 07- 761 07 07- 721 04 09- 686 02 06- 630 01- 10- 580 04- 14- 504 11- 17- 470 ++ 17- 433 18- 23- 422 19- 27- 368 26- 30- 287 40- 44- 231 54- 179 65- 173 62- 163 62- 153 57- 089 56- 079 57- 070 54-																							179	12850	65-
	02 00901	025	024	657	019 14 08 974 ++ 02 956 10 02 911 10 00 892 ++ 02- 879 09 02- 864 10 05 850 09 05 842 09 04 825 11 05 778 07 03 766 ++ 02 730 ++ 02 708 05 00 649 01- 05- 619 02- 08- 603 ++ 10- 598 04- 13- 578 ++ 12- 570 07- 13- 563 07- 11- 554 ++ 15- 531 09- 19- 515 10- 18- 501 11- 23- 415 22- 34- 333 33- 45- 294 40- 50- 197 60- 171 62- 166 64- 151 58- 118 60- 112 57- 069 56- 040 51-																							166	13330	64-
CRAWLEY 03774	02 00900	026	009	618	003 15 11 998 ++ 07 979 16 11 958 ++ 06 919 14 05 890 ++ 03 860 ++ 05 854 09 03 844 10 01- 840 ++ 05- 812 09 11- 796 10 14- 732 08 20- 512 ++ 29- 445 16- 29- 294 ++ 50- 223 57- 186 63- 168 63- 145 58- 083 58- 030 50-																							186	12680	63-
	02 00902	026	009	648	988 17 05 922 12 01- 908 14 06- 896 13 11- 874 14 16- 782 ++ 10- 701 ++ 03- 658 01 04- 606 ++ 10- 594 ++ 12- 524 07- 17- 294 ++ 50- 238 52- 189 64- 167 65- 156 60- 097 57- 030 53-																							189	12560	64-
CAMBORNE 03808	02 00900	027	016	615	001 17 11 980 ++ 08 963 ++ 09 931 16 02 912 17 08- 811 ++ 21- 803 ++ 09- 776 10 07- 743 09 11- 658 03 16- 638 ++ 22- 568 ++ 32- 476 ++ 24- 408 21- 32- 368 29- 40- 331 35- 45- 317 36- 46- 295 40- 50- 223 52- 185 58- 082 59- 030 54-																							185	12740	58-
	02 00901	027	016	632	998 14 08 967 16 01 935 15 04- 900 15 09- 871 13 15- 808 11 19- 761 07 11- 734 06 08- 725 ++ 11- 638 01 15- 612 02- 17- 599 02- 22- 575 ++ 29- 548 08- 24- 372 ++ 45- 310 40- 50- 230 58- 198 62- 185 60- 133 62- 126 60- 099 62- 090 60- 075 61- 045 53- 034 53- 030 47-																							198	12200	62-
VALENTIA 03953	01 15600	028	027	660	006 16 13 907 12 10 893 13 10 784 09 02 740 05 01 681 02 06- 608 03- 10- 551 07- 17- 393 25- 34- 268 47- 257 48- 230 55- 208 56- 191 60- 145 57- 073 58-																							191	12500	60-
	03 32504	027	025	670	008 18 14 988 18 15 905 11 09 847 11 04 735 04 02- 715 04 04- 692 01 05- 633 02- 14- 588 05- 21- 546 10- 17- 530 12- 22- 503 13- 27- 482 16- 35- 382 31- 36- 319 39- 45- 254 52- 206 59- 138 55- 098 58- 080 59- 045 53-																							206	12000	59-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 754++	026	026	643	970 07 07 952 ++ 02 934 11 02- 912 ++ 11- 880 11 15- 845 ++ 20- 774 06 02- 719 06 13- 575 05- 28- 456 17- 38- 404 24- 43- 296 40- 50- 276 45- 243 50- 190 58- 158 58- 145 56- 110 58- 077 55- 059 55- 043 51- 030 51-																							190	12500	58-
	45 9+0++	024	024	668	960 10 10 914 11 10 866 11 05 836 ++ 07 815 09 06 780 06 02 727 ++ 01 718 01 01- 710 02 00 680 ++ 04- 666 00 06- 653 ++ 10- 577 07- 15- 545 08- 18- 479 16- 24- 377 29- 34- 225 56- 193 54- 098 54- 090 51- 074 52- 067 48- 060 51-																							225	11400	56-
Ocean Weather Station 'J' 52°30'N 20°00'W	45 9+0++	024	024	699	969 13 12 884 09 08 865 11 09 840 10 06 794 08 06 758 ++ 03 686 01- 15- 650 02- 09- 618 03- 37- 483 ++ 38- 322 40- 50- 244 54- 217 54- 184 50- 173 52- 147 50- 093 55- 071 56- 060 54-																							244	10800	54-
	02 755++	024	024	696	978 09 07 960 ++ 07 954 08 06 913 08 04 826 03 02- 806 02 06- 777 ++ 12- 755 02 16- 696 00 20- 672 ++ 17- 632 04- 24- 536 ++ 17- 503 16- 32- 447 ++ 35- 395 ++ 37- 322 40- 46- 253 54- 227 56- 197 50- 148 48- 108 53- 068 54- 049 50-																							227	11200	56-



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m	950mb °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb °C °C	700mb m °C °C	650mb °C °C	600mb m °C °C	550mb °C °C	500mb m °C °C
201130	53.5N 25.3W	021 014 770	061 11 11	177	09 06	1049 07 01	1515 05 01	2009 02 02	01- 19-	3072 03- 28-	05- 41-	4276 10- 21-	14- 27-	5660 18- 25-
Cloud :— 8/8 St. 100 to 600 ft. 4/8 Sc. 2600 to 2900 ft. 2/8 Ci. at 30000 ft.														
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
201246	57.3N 23.3W	021 013 705	061 12 12	171	12 12	1055 09 09	1527 07 07	2030 08 03	03 08-	3112 01- 15-	03- 25-	4331 05- 26-	10- 32-	5733 15- ++
Cloud :— 8/8 St. 100 to 1100 ft. 8/8 Sc. 1100 to 2300 ft. 8/8 Sc. 2400 to 3500 ft. 8/8 Sc. 3700 to 6000 ft. 1/8 Ac. 7000 to 9000 ft. 2/8 Ci. at 30000 ft.														
Inversion Levels :— 967 to 950 mb 11 to 12½°C 850 to 820 mbs 06½ to 07½°C							Isothermal Levels :— 1013 to 1000 mb 11½°C 820 to 800mb 07½°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 Meteorological Office, Air Ministry, Kingsway, London, W.C.				
For special arrangements for supply to schools and colleges see Form 2452.														



## UPPER WINDS AT ADDITIONAL LEVELS

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STATION		MAX. WIND
LERWICK 03005	140mb 340 35 19500m 340 12 P.24600m 090 12 20100m 070 09 13050/4	330 75 07390m 330 77 10010m
STORNOWAY 03026	109mb 330 13 18000m 020 09 15480/2 080mb 290 08 16700m 200 04 10660/0 12820/1	
SHANWELL 03170	138mb 340 27 039mb 050 16 P.28800m 080 23 156mb 310 21 24900m 090 19 02200/5 21510/2	
ALDERGROVE 03917	176mb 260 03 19000m 030 09 22680m 080 18 08080/5 13330/2 20650/0 P.26100m 090 26 13580m 210 10 22200m 090 13 12480/1 13020/1	
AUGHTON 03322	P.27600m 090 24 16350/2 10580/0 12810/2 13410/2	
HEMSBY 03496	078mb 340 17 13060m 340 45 28800m 070 22 30100m 070 27 13060/1 13480/1 18580/2 138mb 360 19	
CRAWLEY 03774	033mb 080 22 24300m 080 16 13520/0 26100m 070 19	
CAMBORNE 03808	P.25800m 070 16 26100m 050 19 14510/2 19390/2 P.24600m 070 18 14690/1 20690/0	
VALENTIA 03953	907m 080 02 740mb 240 05 608mb 240 05 257mb 190 17 145mb 180 15 073mb 150 05 00300m 160 02 00600m 120 02 09900m 170 39	
Ocean Weather Station 'J' 59°00'N 19°00'W	340mb 180 26 169mb 160 19 13500m 200 10 13330/3 112mb 200 09 056mb 180 05 12900m 160 22 28800m 330 05 07750/6 11570/1 13600/1 17250/2 20620/5 25300/8	
Ocean Weather Station 'J' 52°30'N 20°00'W	175mb 120 36 064mb 140 10 22800m 100 06 14850/1 051mb 090 22 11250/1	
LARKHILL 03743	17770/2 08670/9	

## NOTES ON THE AEROLOGICAL SITUATION

The evolution which was noted yesterday over the Atlantic, in which two ridges linked up to cut off a low is now halted, the tendency being for the low to link up again with the westerlies in higher latitudes. A ridge is maintained, however, over the British Isles, with a major trough over Europe. This part of the pattern appears favourably shaped for the development of a block.

## AVERAGE AND EXTREME VALUES 1951-55

JUNE

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22345	-48.1	-42	-55	...	...
60	19675	-48.1	-41	-55	120	3
100	16320	-48.8	-41	-56	244	5
150	13660	-48.3	-41	-59	263	10
200	11770	-49.8	-39	-67	271	16
300	9125	-46.7	-37	-56	271	22
400	7160	-32.6	-23	-44	271	18
500	5555	-20.8	-11	-31	269	14
700	2985	-5.2	3	-14	266	9
850	1435	2.8	14	-7	269	6
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)	
Average		257	-54.7		10190	
Max.		405	-40		12955	
Min.		172	-68		6890	

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22310	-49.6	-47	-57	106	9
60	19675	-51.4	-45	-59	136	3
100	16370	-52.6	-46	-61	251	8
150	13745	-51.8	-42	-65	265	15
200	11890	-54.0	-40	-65	268	20
300	9265	-44.7	-36	-54	265	20
400	7275	-29.6	-19	-41	265	17
500	5640	-17.8	-9	-28	263	15
700	3050	-2.1	7	-10	263	11
850	1480	5.7	16	-3	264	7
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)	
Average		234	-56.8		10950	
Max.		388	-41		13440	
Min.		160	-66		7225	

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

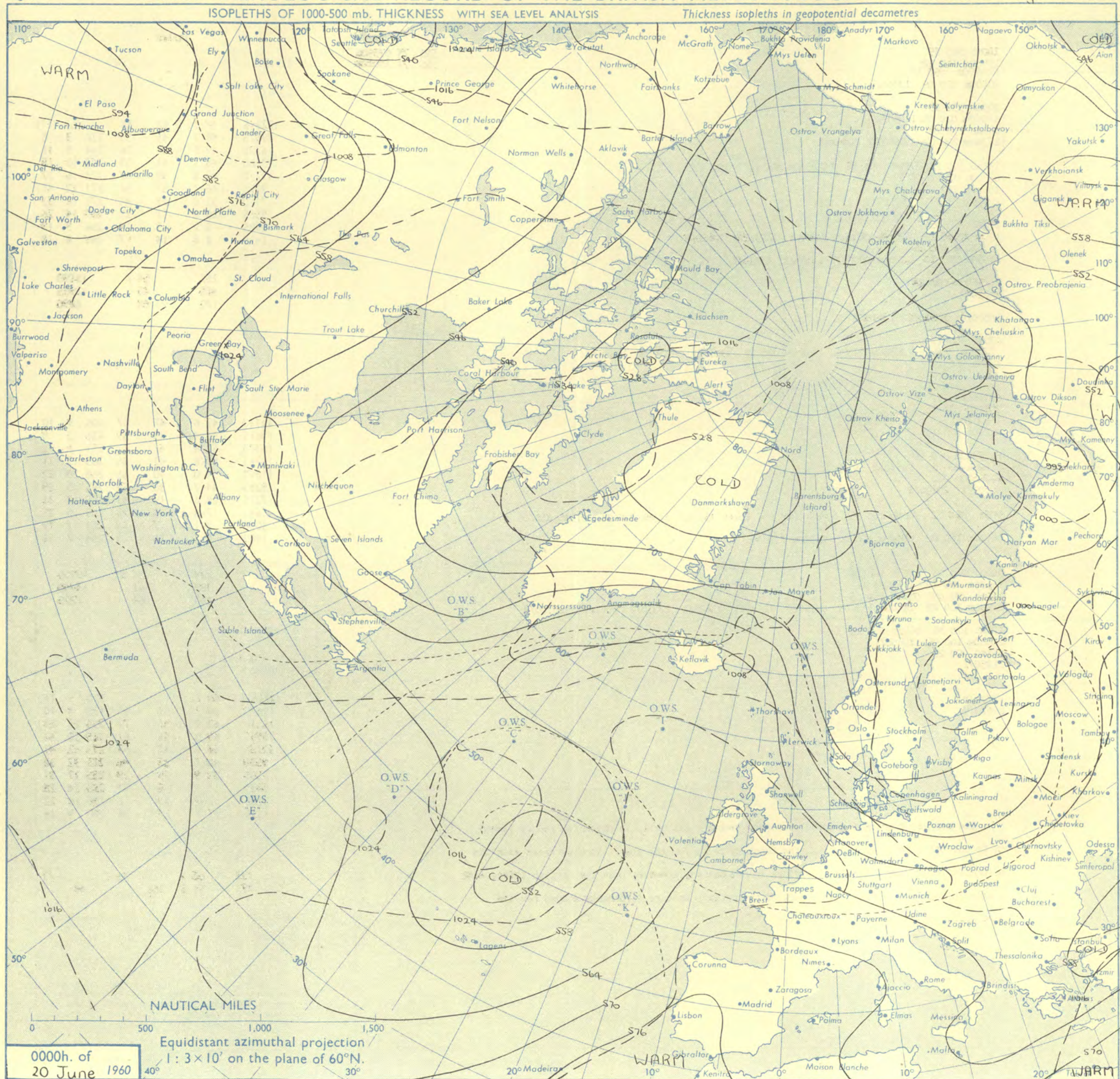
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5
60	19670	-60.7	-53	-69	135	4
100	16510	-62.9	-57	-71	255	21
150	13995	-59.0	-51	-67	265	38
200	12185	-56.6	-47	-67	275	42
300	9530	-40.1	-33	-46	285	32
400	7500	-23.9	-19	-29	285	27
500	5835	-11.8	-8	-17	285	24
700	3165	7.2	13	-1	290	18
850	1535	17.9	27	8	290	9
Tropo- pause		Average Press.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb. 123	°C -65.7	mb. ...	°C 73	°C -73
Lower		193	-59.8	266	...	-46

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.



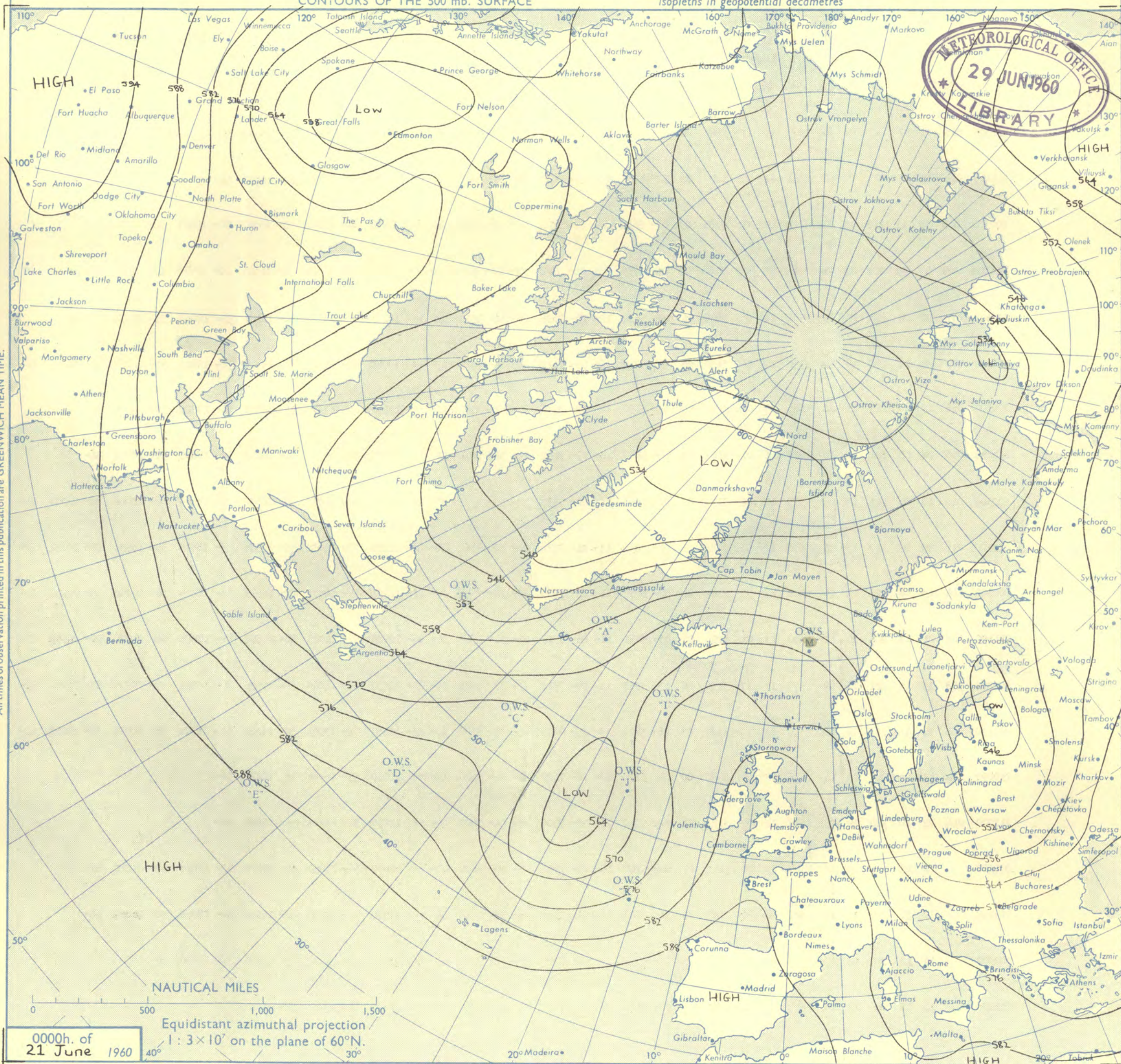




CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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

0000h. of  
21 June 1960Equidistant azimuthal projection  
1:3 x 10<sup>7</sup> on the plane of 60°N.



## HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

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	202215	082	10	10	173	10	08	1516	11	02	3115	03	04	5762	12	27	7428	25	34	9457	40	47	12108	59	13907	56	16192	56	18776	53	20952	51								
	211100	082	14	12	187	12	10	1544	08	04	3131	02	24	5774	13	30	7430	27	43	9435	43	++	12064	60	13886	54	16182	57												
STORNOWAY 03026	202300	013	08	07	217	09	06	1573	10	11	3169	04	19	5813	14	37	7468	26	49	9481	42	++	12109	60	13920	57	16502	56												
	211118	013	14	13	203	10	08	1551	11	27	3140	02	32	5766	16	34	7410	28	39	9416	42	++	12033	56	13889	52	16497	54												
SHANWELL 03170	202300	005	13	11	212	15	10	1582	10	07	3181	03	03	5844	11	22	7511	25	31	9542	40	46	12187	60	13987	55	16567	54	18877	50										
	211100	005	17	09	201	12	06	1569	09	05	3166	02	06	5796	15	25	7443	27	37	9455	42	++	12072	61	13909	54	16194	56	18776	63	20963	50	24304	48						
ALDERGROVE 03917	202300	077	10	08	214	13	05	1584	11	05	3185	04	09	5834	12	23	7495	26	34	9510	42	++	12138	57	13975	54	16561	55	18843	53	21024	51								
	211100	077	18	11	188	17	10	1552	12	04	3150	03	19	5772	16	19	7414	28	32	9419	42	++	12050	53	13916	54	16518	54	18823	51	21020	50	24394	48						
AUGHTON 03322	202300	056	12	10	213	13	10	1585	13	02	3195	04	02	5850	12	19	7516	25	37	9541	41	++	12166	60	13975	58	16541	56	18825	53	21004	50								
	211135	056	24	09	192	22	10	1568	11	01	3167	03	16	5806	15	27	7461	26	31	9481	41	++	12103	61	13914	58	16453	59	18699	57	20845	54								
HEMSBY 03496	202300	012	10	09	215	12	09	1575	12	02	3191	06	01	5863	10	21	7539	22	33	9559	35	46	12301	55	14098	64	16632	59	18866	50	21008	56	24271	54						
	211100	012	19	09	212	15	08	1572	12	03	3185	05	01	5842	11	21	7516	23	33	9561	38	48	12239	57	14032	59	16578	59	18810	59	20931	58	24161	57						
CRAWLEY 03774	202300	144	13	08	219	14	06	1589	12	05	3200	04	02	5859	11	25	7534	23	34	9583	37	47	12251	59	14037	61	16571	59	18815	58	20956	55	24248	52						
	211100	144	21	12	206	20	11	1580	13	01	3194	05	03	5851	11	26	7525	23	34	9568	38	46	12228	59	14025	58	16582	58	18855	54	21020	52	24359	47						
CAMBORNE 03808	202300	088	13	12	201	17	09	1577	13	17	3188	06	13	5857	11	29	7528	23	37	9574	38	45	12237	57	14046	58	16596	59	18841	57	20975	55	24260	52						
	211100	088	21	13	184	18	09	1557	14	10	3161	03	08	5810	13	25	7471	25	31	9506	40	45	12157	59	13965	56	16520	61	18772	55	20924	55	24218	52						
VALENTIA 03953	210000	014	17	14	207	16	14	1575	09	09	3167	00	01	5790	17	20	7420	29	34	9420	44	++	12030	55	++++	++	16470	56												
	211200	014	22	10	164	19	08	1538	12	02	3133	01	04	5760	16	23	7400	28	44	9400	44	++	12010	52	++++	++	16490	59												
Ocean Weather Station 'I'  59°00'N 19°00'W	202300		12	12	173	12	12	1528	07	06	3113	00	02	5740	16	25	7380	28	33	9370	43	++	12000	59	13860	50	16190	53	18810	50	21010	49								
	211100		12	11	158	11	10	1497	06	00	3069	00	24	5700	17	25	7340	28	33	9340	44	++	11970	51	13870	46	16540	50	18860	50	21080	48								
Ocean Weather Station 'J'  52°30'N 20°00'W	202300		13	12	186	12	10	1532	04	01	3089	03	12	5680	19	26	7300	30	37	9280	46	++	11930	47	13840	47	16500	51	18800	52										
	211100		14	13	168	12	10	1512	05	00	3068	05	12	5640	22	36	7250	32	40	9210	50	++	11870	47	13770	49														



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE																													TROPOPAUSE		
		MSL	Surf.	0°C level																											mb	m	°C
LERWICK 03005	51 870++	021	011	670	001	10 08 945 06 04 837 11 01 810 ++ 03- 756 ++ 02- 731 ++ 05- 710 04 04- 670 00 04- 621 ++ 13- 592 ++ 12- 524 09- 24- 415 ++ 33- 345 ++ 37- 321 ++ 44- 296 40- 47- 225 55- 184 62- 135 54- 100 56- 033 49-																									184	12640	62-
	02 4633+	022	013	667	001	++ 09 989 10 08 980 09 07 960 13 10 937 11 08 914 12 08 892 ++ 05 811 05 03 768 06 11- 760 06 16- 693 02 24- 658 ++ 13- 605 ++ 18- 562 08- 20- 533 09- 25- 467 ++ 36- 377 31- 47- 316 40- 50- 250 51- 198 60- 150 54- 113 54- 100 57- 088 54-																									198	12120	60-
STORNOWAY 03026	01 15701	027	025	648	018	09 06 977 09 06 967 ++ 08 943 13 04 921 ++ 08- 739 06 15- 556 07- 28- 313 40- 50- 207 61- 128 55- 100 56-																									207	11890	61-
	03 15601	024	023	669	008	10 08 994 ++ 08 965 09 03 956 ++ 10- 926 06 24- 900 13 26- 881 11 27- 834 11 27- 792 07 30- 780 07 30- 755 05 32- 713 02 34- 707 03 32- 542 11- 43- 525 13- 45- 500 ++ 34- 387 30- 40- 340 35- 44- 312 40- 48- 266 51- 228 59- 222 55- 207 57- 178 52- 099 53- 081 55-																									228	11190	59-
SHANWELL 03170	02 10931	025	025	637	023	14 12 005 14 09 990 16 10 929 13 10 910 13 11 891 13 10 876 12 08 837 09 06 817 ++ 04 760 07 00 718 ++ 03- 700 03 03- 664 ++ 07- 637 00 05- 587 ++ 10- 570 ++ 16- 517 09- 20- 487 13- 24- 432 20- 26- 415 23- 30- 388 26- 30- 297 40- 46- 228 55- 183 63- 153 55- 119 57- 086 53- 073 50- 057 52-																									183	12720	63-
	03 11501	024	023	680	997	12 07 979 14 09 940 ++ 11 921 13 10 867 10 06 790 ++ 02- 783 07 01- 772 ++ 01 758 ++ 03- 634 04- 12- 621 04- 13- 563 ++ 24- 530 ++ 22- 513 ++ 28- 495 ++ 25- 413 ++ 36- 377 ++ 38- 313 40- 46- 208 62- 201 61- 194 54- 100 56- 064 53- 057 50- 036 51- 030 48-																									208	11810	62-
ALDERGROVE 03917	02 20931	027	017	648	984	16 01- 955 ++ 09 936 13 08 887 12 09 855 11 06 846 12 05 821 ++ 00 698 04 09- 640 01- 19- 564 07- 16- 479 14- 25- 435 21- 30- 311 40- 46- 238 55- 210 58- 173 54- 083 55- 037 50-																									210	11820	58-
	05 12576	022	013	660	953	13 08 907 12 07 887 13 05- 835 ++ 04- 807 10 08- 784 ++ 12- 695 ++ 19- 660 00 15- 563 11- 16- 538 ++ 16- 314 40- 44- 233 57- 171 50- 153 54- 106 55- 047 49- 041 46- 030 48-																									233	11080	57- 153 13800 54-
AUGHTON 03322	02 00900	026	019	650	008	14 12 999 13 09 976 16 08 933 17 03- 930 ++ 07- 886 13 04- 827 12 00 780 ++ 00 765 09 01- 738 07 01 619 03- 08- 594 ++ 10- 558 07- 16- 532 09- 18- 481 14- 20- 418 22- 34- 306 40- 50- 214 60- 190 61- 185 58- 144 56- 133 58- 085 55- 040 49-																									214	11740	60-
	02 15500	023	016	654	009	22 08 897 12 05 880 13 04 842 12 05 880 13 04 842 11 01- 818 ++ 00 788 ++ 04- 782 08 00 772 ++ 00 740 06 07- 685 ++ 19- 634 ++ 15- 611 03- 22- 583 ++ 25- 557 09- 22- 542 10- 24- 460 18- 31- 435 21- 27- 365 21- 27- 307 40- 43- 222 58- 201 61- 178 57- 154 57- 143 60- 073 58- 038 53-																									201	12080	61-
HEMSBY 03496	02 00901	026	025	630	013	13 11 957 10 08 920 ++ 06 898 ++ 07 850 12 02 830 ++ 06- 823 13 03- 788 ++ 04 763 11 06 730 08 05 698 06 02- 571 05- 10- 552 05- 13- 528 ++ 15- 503 10- 21- 481 ++ 22- 368 26- 37- 324 31- 43- 277 40- 277 40- 50- 215 52- 149 65- 122 57- 093 60- 074 59- 062 55- 030 54-																									149	14130	65-
	02 11601	025	023	647	011	16 09 913 09 06 870 14 01- 852 12 02 847 ++ 04 815 12 03 777 10 04 743 08 01 589 ++ 10- 577 06- 13- 535 08- 18- 528 ++ 17- 440 ++ 30- 412 21- 29- 390 ++ 36- 283 40- 50- 225 53- 166 62- 156 63- 147 58- 075 60- 057 57- 030 57-																									166	13400	62-
CRAWLEY 03774	02 00909	026	009	643	002	14 07 968 17 08 922 ++ 10 907 ++ 07 859 11 05 839 13 04 728 ++ 01 630 01- 09- 612 ++ 08- 556 07- 17- 500 11- 25- 452 ++ 23- 433 ++ 27- 412 ++ 32- 353 30- 40- 295 38- 48- 197 60- 183 62- 100 59- 030 52-																									183	12770	62-
	00 00901	024	007	649	916	12 09 901 ++ 01 873 ++ 06 864 14 04 858 ++ 01 795 12 06 768 ++ 04 744 08 04 725 ++ 02- 624 ++ 08- 609 ++ 13- 600 ++ 12- 584 05- 14- 574 ++ 13- 557 06- 21- 529 ++ 29- 512 ++ 24- 438 ++ 34- 335 ++ 38- 305 ++ 46- 226 53- 183 63- 179 59- 137 57- 101 59- 030 47-																									183	12780	63-
CAMBORNE 03808	02 00902	024	014	619	998	18 10 977 18 06 928 15 05 915 16 01 863 13 15- 842 13 17- 828 12 21- 755 10 28- 698 06 13- 579 03- 23- 546 07- 23- 506 10- 29- 464 16- 32- 396 23- 37- 306 37- 45- 264 46- 205 57- 174 60- 162 58- 103 59- 030 52-																									174	13110	60-
	02 00906	022	011	660	003	18 09 985 ++ 08 924 ++ 09 919 13 07 885 14 09- 858 ++ 14- 834 13 05- 680 02 08- 632 ++ 17- 607 ++ 18- 607 ++ 18- 596 04- 24- 538 ++ 27- 504 12- 25- 442 ++ 32- 414 23- 35- 406 ++ 30- 367 28- 33- 297 40- 45- 204 59- 189 61- 165 57- 145 55- 123 59- 080 58- 074 55- 030 52-																									189	12520	61-
VALENTIA 03953	02 746++	024	023	700	848	09 09 827 10 07 795 08 02 642 05- 15- 620 05- 14- 600 06- 15- 556 09- 22- 493 18- 22- 445 23- 25- 326 39- 42- 255 53- 246 54- 233 58- 224 58- 188 53- 103 56- 067 54-																									233	11100	58-
	80 23681	019	018	690	953	15 06 912 14 08 890 13 02- 874 15 00 841 11 03 822 09 02- 760 07 03- 746 05 00 656 03- 08- 582 08- 12- 560 10- 16- 510 15- 21- 464 19- 33- 357 35- 50- 305 42- 229 60- 220 54- 160 50- 088 56- 049 53-																									230	11300	60-
Ocean Weather Station 'I' 59°00'N 19°00'W	51 862++	021	021	698	967	11 11 947 12 11 829 06 04 768 05 03 726 ++ 01- 673 02- 03- 663 ++ 09- 629 04- 10- 593 07- 12- 545 11- 32- 490 ++ 25- 456 22- 30- 433 24- 30- 384 30- 34- 335 ++ 44- 318 40- 46- 219 57- 170 31- 105 54- 067 49- 043 49-																									219	11400	57-
	02 864++	019	019	969	922	07 06 905 09 06 892 ++ 03 823 05 02- 770 ++ 15- 747 03 18- 635 03- 26- 598 04- 24- 484 18- 25- 432 23- 28- 341 37- 42- 321 40- 45- 253 52- 217 57- 199 51- 166 46- 144 46- 080 52- 063 49- 049 48-																									217	11500	57-
Ocean Weather Station 'J' 52°30'N 20°00'W	01 755++	022	022	770	020	++ 11 979 10 08 956 11 05 946 ++ 01 921 10 00 884 07 01- 865 ++ 03 854 05 02 838 ++ 01- 825 03 01 790 ++ 02- 750 01- 08- 733 ++ 08- 714 ++ 17- 682 ++ 08- 659 ++ 19- 632 07- 13- 608 09- 14- 592 ++ 20- 562 13- 18- 541 15- 23- 455 23- 30- 426 ++ 32- 407 29- 36- 338 40- 46- 249 54- 210 47- 154 47- 084 52- 070 52-																									249	10500	54-
	02 25530	020	020	775	974	10 08 949 ++ 07 926 09 01 921 ++ 01- 890 ++ 02 805 ++ 04- 763 01- 06- 728 ++ 05- 707 ++ 10- 664 07- 10- 577 13- 16- 566 ++ 17- 544 ++ 22- 482 ++ 27- 471 26- 29- 465 25- 29- 418 30- 37- 351 40- 47- 285 53- 273 53- 249 47- 148 49-																									285	09500	53-



## UPPER WINDS AT STANDARD LEVELS

21 June 1960

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	202245	T	300 17	+++ ++	310 27	310 28	310 23	300 24	300 19	300 22	290 28	270 33	270 42	270 46	260 20	290 05	060 07	040 08			
	210500	P	290 18	+++ ++	340 22	330 21	320 16	320 18	300 17	310 15	290 22	260 31	260 41	270 31	270 13	290 06	060 05	080 11			
	211100	T	290 07	+++ ++	320 12	270 08	300 10	300 11	280 14	260 13	260 14	240 26	250 19	240 18	240 12	210 10					
	211700	P	270 09	+++ ++	260 09	310 09	330 05	300 11	290 13	260 11	240 12	250 19	250 29	230 20	240 16	230 15	080 02	110 07			
STORNOWAY 03026	202300	T	000 00	290 05	300 06	310 07	280 15	280 12	250 10	240 11	210 21	200 33	200 45	210 28	240 13						
	210500	P	000 00	+++ ++	000 00	180 02	280 02	250 05	230 10	220 11	200 16	190 20	190 29	180 28	210 14	200 09	120 07				
	211118	T	050 10	+++ ++	170 05	180 07	190 09	190 12	190 10	200 15	190 19	210 32	200 35	200 26	210 24	180 08					
	211710	P	060 13	+++ ++	180 07	190 07	190 08	200 11	210 13	200 16	210 21	190 24	190 31	200 31	210 16	230 12	200 02	100 07			
SHANWELL 03170	202300	T	080 04	090 11	090 06	300 06	310 08	280 10	250 12	230 12	230 07	200 16	190 26	210 25	250 07	P120 03	P010 04	100 12	070 21	090 27	
	210500	P	070 04	+++ ++	140 02	130 03	330 03	290 07	260 06	230 07	210 16	200 23	190 38	190 39	220 12	210 06	080 03	070 07			
	211100	T	150 03	160 05	180 06	200 07	200 05	210 04	250 09	220 16	210 19	230 31	230 42	230 41	220 21	180 09	100 08	120 11	080 17		
	211700	P	110 05	+++ ++	150 07	220 10	230 07	230 06	220 12	220 15	220 19	210 32	220 49	220 43	230 25	220 10	170 03	100 14			
ALDERGROVE 03917	202300	T	360 04	+++ ++	010 06	110 03	200 04	210 04	200 11	190 13	180 21	180 30	170 42	170 38	210 13	240 07	110 07	100 12			
	210500	P	140 01	+++ ++	100 05	140 04	170 05	170 08	200 14	200 15	200 27	210 35	200 35	210 37	210 25	230 11	120 07	080 10			
	211100	T	240 01	+++ ++	160 09	180 10	190 15	200 13	200 20	200 24	200 27	200 44	190 56	210 40	200 24	190 05	140 11	100 12			
	211700	P	150 07	+++ ++	190 12	200 13	160 12	180 10	190 14	190 21	200 23	210 28	200 40	210 50	200 26	200 12	210 04	070 10	100 18		
AUGHTON 03322	202300	P	000 00	+++ ++	220 01	220 04	200 11	200 12	220 11	230 06	200 13	180 25	170 30	200 21	250 12	300 03	P040 06	090 13	070 19		
	210500	P	120 06	+++ ++	180 06	200 09	210 06	220 13	210 11	230 10	220 21	230 27	240 24	230 36	240 18	250 06	090 02	080 15	090 25	090 24	
	211100	P	200 08	+++ ++	180 05	190 10	200 09	200 16	210 16	200 18	210 24	220 35	220 43	230 46	250 23	220 07	050 05	100 13			
	211700	P	330 09	+++ ++	160 09	160 09	180 14	200 22	220 18	220 18	220 33	220 46	220 54	220 59	210 20	200 12	170 03	080 13			
HEMSBY 03496	202300	T	320 02	360 12	350 18	350 20	360 20	360 22	350 19	340 11	340 18	360 15	020 17	P350 23	320 16	350 12	030 08				
	210500	P	290 02	+++ ++	030 14	010 17	360 17	330 10	330 11	350 07	290 08	280 08	240 06	260 06	310 16	350 11	050 11	080 11	090 24	090 23	
	211100	T	060 10	040 07	030 07	340 12	310 11	290 09	280 10	250 09	270 13	280 17	280 21	250 23	280 11	330 05	070 07	080 14	090 17		
	211700	P	140 07	+++ ++	030 07	330 06	320 07	270 11	260 17	270 15	260 20	260 24	260 25	280 35	290 14	320 05	060 10	080 11	090 20		
CRAWLEY 03774	202300	T	160 04	+++ ++	050 03	030 12	040 07	030 03	050 07	320 11	300 13	350 02	020 02	220 06	310 18						
	210500	P	000 00	+++ ++	040 04	050 08	060 04	100 04	170 05	280 05	300 08	270 13	220 16	220 13	300 18	310 09	060 10	070 16	090 23		
	211040	P	000 00	+++ ++	070 06	070 06	090 03	150 07	190 11	230 06	250 12	250 19	270 21	270 32	300 19	340 05	070 05	070 14	090 18	100 23	
	211700	P	130 04	+++ ++	060 07	120 06	180 07	210 11	210 16	220 15	240 21	240 25	240 22	250 39	260 15	300 06	080 07	080 12	090 21		
CAMBORNE 03808	202300	T	060 05	+++ ++	120 06	150 05	290 04	230 06	200 12	200 15	220 24	230 29	250 34	250 34	240 33	250 06	230 02	090 09	080 13		
	210500	P	120 13	+++ ++	190 09	190 07	190 07	200 10	200 15	210 17	220 30	220 33	220 42	240 51	230 24	230 08	170 03	090 12	080 20		
	211100	T	120 12	+++ ++	180 15	180 10	180 12	180 16	190 20	200 30	200 41	210 50	220 57	220 63	210 37	230 10	150 05	110 09	090 19	P100 27	
	211700	P	130 14	+++ ++	190 09	200 07	180 12	200 16	200 20	200 30	210 42	210 55	210 64	210 66	210 26	200 17	150 06	090 10	090 20		
VALENTIA 03953	210000	T	170 05	120 06	+++ ++	140 09	+++ ++	180 16	170 21	170 27	180 33	190 40	+++ ++	200 49	+++ ++	190 08					
	211200	T	140 08	140 11	+++ ++	180 16	+++ ++	170 23	+++ ++	190 34	190 44	190 51	+++ ++	190 38	+++ ++	200 15					
Ocean Weather Station 'I' 59°00'N 19°00'W	202300	T	160 12	+++ ++	170 14	170 19	170 21	170 24	170 38	170 29	170 24	160 29	160 23	160 35	140 21	220 10	170 05	000 00			
	210500	P	270 10	+++ ++	220 12	180 11	170 18	160 29	170 26	160 30	160 32	140 36	150 27	150 18	210 13	250 12					
	211100	T	240 10	+++ ++	230 14	230 14	210 13	190 17	160 20	170 24	190 24	170 30	160 34	160 28	180 17	180 08	180 09	180 09			
	211700	P	270 10	+++ ++	250 09	240 09	210 10	210 08	200 13	160 19	170 20	160 30	170 21	200 13	210 10	180 07	170 03	180 04			
Ocean Weather Station 'J' 52°30'N 20°00'W	202300	T	140 12	+++ ++	170 11	180 15	180 16	170 18	170 17	170 25	150 25	150 38	150 41	150 25	160 19	180 06					
	210500	P	090 10	+++ ++	140 11	130 10	140 06	180 08	160 16	150 19	160 16	150 22	130 30	120 15	210 14	170 07	250 09				
	211100	T	100 10	120 12	130 07	130 05	110 03	110 04	140 11	180 12	190 06	190 10	190 05	180 04							
	211700	P	090 10	+++ ++	080 05	020 06	010 05	+++ ++	+++ ++	+++ ++	+++ ++	+++ ++	+++ ++	+++ ++	310 01	320 01					
LARKHILL 03743	210630	P	120 03	+++ ++	150 04	160 07	170 10	170 13	180 12	220 09	240 16	240 15	270 23	260 26	280 18	310 09	040 08	080 14			
	211030	P	180 05	+++ ++	110 06	150 06	180 09	180 15	190 16	210 15	230 15	220 24	230 30	250 36	260 15	310 05	070 04	110 10			

## AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE		SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf. 0°C level	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
211136	48.2°N 18.0°W	017	010	759	061 15 14	143 11 11	1024 09 07	1463 06 04	1990 03 00	01- ++	3060 03- ++	07- 11-	4264 12- 13-	15- 25-	5636 21- 27-
Cloud :— 3/8 Cu. 900 to 2000 ft. 2/8 Cu. 900 to 7000 ft. 1/8 Cb. 900 ft. to 20000 ft. 1/8 Cu. 900 to 16000 ft. 3/8 Ac. 10000 to 13000 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	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
211249	45.9°N 13.2°W	019	011	715	061 15 05	155 12 09	1039 10 07	1512 07 01-	2012 05 01-	02 05-	3088 01- 03-	04- 14-	4300 07- 21-	11- 21-	5694 17- 17-
Cloud :— 1/8 Cu. 1300 to 3300 ft. 1/8 Cb. HNG to 20000 ft. 1/8 Ac. 13000 to 14000 ft. 1/8 Ci. at 30000 ft.															
Inversion Levels :—								Isothermal Levels :— 966 to 950mb 12°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	170mb 270 27 21900m 100 08 07600/6 12020/1 23100m 090 20	
STORNOWAY 03026	112mb 200 07 089mb 180 08 13710/1	
SHANWELL 03170	170mb 210 15 P27000m 100 19 22700m 090 19 12310/1 P26000m 100 25 24700m 100 18 09220/0 11800/1 16300/1	
ALDERGROVE 03917	170mb 190 22 039mb 090 15 21900m 080 17 09180/0 14000/1 17000/9 P23700m 090 16 25080m 100 21 19100m 140 03 25280m 100 22 18850/5	
AUGHTON 03322	23100m 120 12	220 62 11800m
HEMSBY 03496	P20600m 060 17 25560m 090 23 13180m 280 25 24900m 090 23	
CRAWLEY 03774	121mb 340 09 P28800m 100 33 20530/0 25800m 090 21	
CAMBORNE 03808	13200m 230 35 24600m 090 29 13050/1 18150/8 P27300m 090 30 13200m 210 37 24100m 090 24 12850/1	220 65 11810m 210 70 12000m
VALENTIA 03953	246mb 210 51 188mb 210 38 067mb 110 14 912mb 170 15 746mb 160 23 582mb 180 29 160mb 200 38 088mb 200 13	
Ocean Weather Station 'I' 59°00'N 19°00'W	136mb 170 15 13200m 180 16 18000m 000 00 14000/4	
Ocean Weather Station 'J' 52°30'N 20°00'W	223mb 150 33 128mb 170 12 075mb 180 04 19800m 330 03 529mb 160 13 155mb 190 03 02700m 320 03 14700m 310 01	
LARKHILL 03743	16310/2 16000/8	

## NOTES ON THE AEROLOGICAL SITUATION

The trough over eastern America moved east and southwesterly winds strengthened over the west Atlantic.

The cut-off low north of the Azores drifted slowly northeast and the ridge over the British Isles also moved northeast.

The trough over eastern Europe moved southeast and intensified, associated with a veer of winds on its western side.

AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
<b>LERWICK</b> (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
<b>LARKHILL/CRAWLEY</b> † (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
<b>MALTA</b> (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropo- pause		Average Press:	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		123	-65.7	...	73	...	-73
		193	-59.8	266	...	-46	...

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.

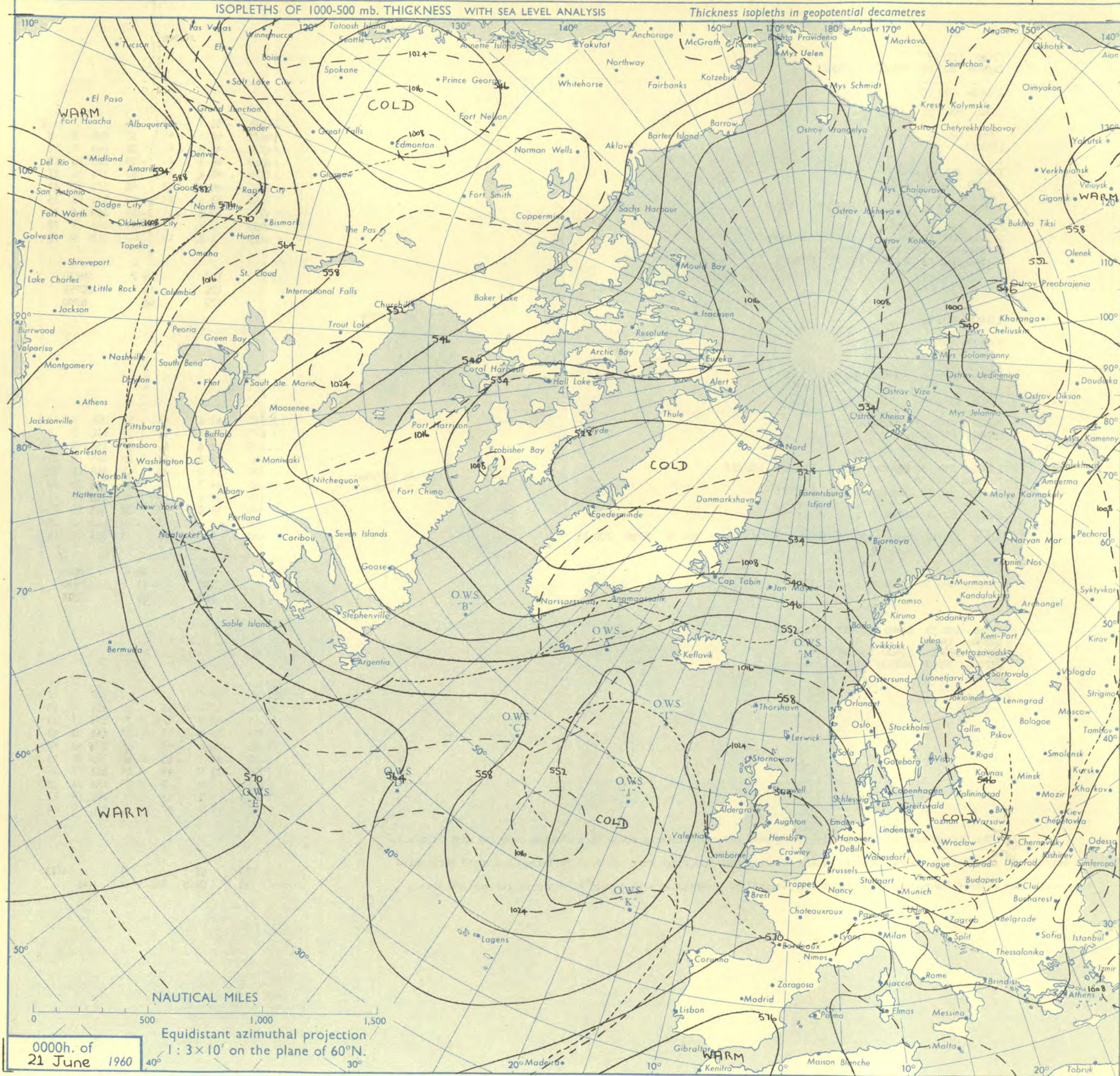
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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

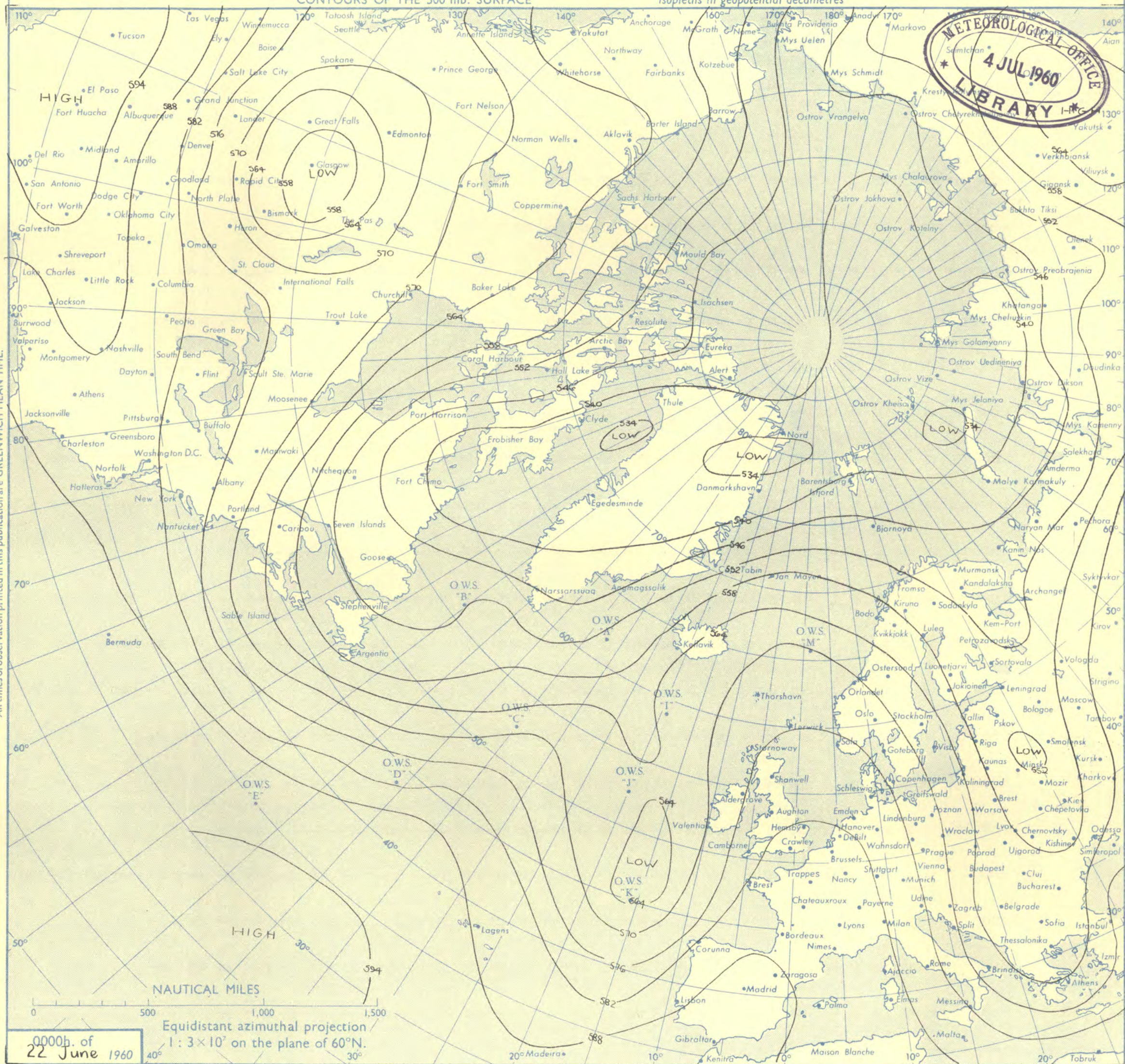




CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



NAUTICAL MILES

Equidistant azimuthal projection  
 1 : 3 x 10<sup>7</sup> on the plane of 60°N.

0000h. of  
 22 June 1960



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	212245	082	09	08	179	11	08	1540	10	00	3133	03	14	5760	16	24	7407	27	34	9417	43	++	12034	55	13898	51	16516	53	18831	50	21041	48								
	221100	082	14	10	174	11	08	1534	11	01	3124	02	09	5742	17	22	7381	29	36	9373	46	++	11977	54	13848	51	16465	52	18785	50										
STORNOWAY 03026	212300	013	12	11	173	10	03	1539	09	07	3127	01	17	5743	17	24	7379	29	42	9371	45	++	11979	54	13845	51	16453	55	18743	53	20923	51	24250	51						
	221102	013	18	13	158	18	10	1525	09	01	3109	01	15	5720	17	27	7354	29	37	9339	45	++	11950	56	13811	50	16445	51												
SHANWELL 03170	212300	005	13	11	181	11	08	1547	10	06	3135	02	12	5767	17	23	7402	29	33	9396	44	++	12016	55	13881	53														
	221100	005	18	12	167	14	11	1539	10	06	3131	02	06	5758	16	25	7403	27	43	9412	43	++	12033	58	13882	52	16488	54	18791	51	20988	50	24369	46						
ALDERGROVE 03917	212300	077	12	10	159	15	11	1533	11	07	3129	01	06	5756	16	20	7400	27	40	9403	43	++	12030	54	13897	51	16504	54	18792	53	20973	52	24321	48						
	221100	077	22	13	145	19	11	1515	09	07	3097	00	10	5716	15	22	7361	27	39	9367	44	++	11995	55	13846	52	16462	54	18755	53	20925	52	24255	50						
AUGHTON 03322	212300	056	15	11	173	21	09	1554	10	08	3152	04	20	5790	15	24	7442	26	28	9464	41	++	12110	57	13951	54	16530	57	18787	55	20943	54	24245	52						
	221100	056	23	09	148	20	09	1527	12	03	3125	02	03	5774	13	20	7433	25	32	9462	40	50	12122	56	13948	56	16551	54	18818	57	20953	56	24201	57						
HEMSBY 03496	212300	012	12	11	191	14	08	1561	13	05	3168	03	01	5808	13	26	7469	25	37	9491	41	++	12123	60	13939	58	16492	57	18770	53	20945	51	24277	50						
	221100	012	17	11	182	14	05	1552	14	02	3160	04	02	5808	13	30	7468	26	43	9486	41	++	12122	58	13953	55	16524	57												
CRAWLEY 03774	212300	144	12	10	184	12	10	1559	15	05	3171	04	02	5826	12	24	7496	24	36	9533	39	49	12186	60	13985	58	16524	60	18768	57	20913	55	24202	52						
	221100	144	20	14	162	19	12	1541	15	04	3156	05	02	5811	12	24	7478	25	36	9503	40	49	12154	58	13957	58	16506	60	18735	59	20847	58	24077	54						
CAMBORNE 03808	212300	088	15	13	155	17	13	1537	12	02	3139	04	08	5784	14	22	7439	26	38	9453	42	++	12088	57	13916	56	16483	59	18732	57	20870	55	24148	50						
	221100	088	19	16	121	18	15	1505	12	05	3100	02	06	5722	16	33	7370	26	47	9377	44	++	12017	52	13877	53	16467	56	18739	55										
VALENTIA 03953	212330	014	16	15	138	15	13	1500	11	04	3091	01	15	5700	18	25	7340	29	37	9330	44	++	11970	51	++++	++	16470	55												
	221200	014	18	12	130	15	09	1483	09	08	3056	02	09	5650	19	27	7270	32	42	9240	46	++	11920	48	++++	++	16440	55												
Ocean Weather Station 'I'  59°00'N 19°00'W	212300		12	10	157	11	10	1493	05	02	3057	02	14	5660	17	23	7290	30	41	9270	46	++	11920	49	13820	49	16470	52	18800	49	21000	49	24360	48						
	221100		12	10	151	11	10	1485	05	00	3049	01	09	5660	17	26	7300	29	41	9290	44	++	11930	51	13820	51	16470	50	18800	49										
Ocean Weather Station 'J'  52°30'N 20°00'W	212300		13	10	169	11	08	1507	06	01	3074	02	09	5660	19	26	7290	31	38	9260	47	++	11930	47	13820	49	16470	51	18760	53										
	221200		13	09	173	11	09	1513	07	00	3086	01	10	5700	15	21	7350	28	35	9360	42	++	12010	50	13880	52	16490	54	18790	51										



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE			TROPOPAUSE
		MSL	Surf.	0°C level	
LERWICK 03005	03 00901	022	012	665	002 11 08 972 14 04 950 ++ 03- 920 ++ 07- 874 ++ 04 851 10 00 824 09 03- 812 09 04- 790 ++ 05- 705 04 13- 218 11500 60-
	01 15439	021	011	674	006 11 08 991 11 09 973 12 09 930 12 08 912 ++ 00 895 ++ 01- 881 11 03 856 12 01 829 09 00 810 ++ 02- 684 01 10- 517 16- 22- 475 18- 24- 445 ++ 30- 327 40- 45- 258 54- 228 58- 163 49- 140 53- 122 54- 100 52- 140 14300 53-
STORNOWAY 03026	03 6577+	021	019	681	010 ++ 09 991 10 03- 981 ++ 10- 978 16 06- 909 13 08 883 ++ 09 820 06 04 806 ++ 04 785 06 01- 745 ++ 04- 689 ++ 22- 655 02- 25- 549 13- 16- 524 14- 19- 504 ++ 23- 483 ++ 25- 436 25- 37- 398 ++ 42- 326 40- 48- 221 61- 207 55- 174 51- 140 51- 123 55- 071 53- 030 51-
	03 20931	019	017	684	009 ++ 09 950 ++ 07 923 ++ 01 899 ++ 07 864 09 06 837 09 09- 832 ++ 13- 763 ++ 11- 636 04- 19- 586 09- 24- 515 ++ 25- 475 ++ 32- 378 32- 40- 337 40- 47- 233 58- 195 56- 185 52- 088 50-
SHANWELL 03170	02 15678	022	021	655	012 ++ 09 984 10 08 965 16 13 939 16 08 892 ++ 04 864 ++ 04 847 09 06 831 ++ 01 707 02 12- 685 02 12- 646 ++ 15- 636 01- 12- 576 ++ 14- 503 17- 23- 360 35- 39- 329 39- 43- 233 58- 211 54- 202 55- 177 51- 133 56- 109 55-
	03 35500	020	019	681	010 14 10 991 13 10 960 16 10 937 15 10 922 16 09 877 13 08 808 06 03 793 ++ 03 770 ++ 17- 765 06 07- 759 ++ 01- 666 ++ 08- 631 04- 17- 583 07- 26- 578 ++ 17- 506 16- 23- 471 18- 32- 456 ++ 36- 317 40- 50- 246 54- 204 59- 169 52- 100 54- 030 46-
ALDERGROVE 03917	02 10931	021	010	679	985 17 09 969 18 05 948 16 09 902 12 07 845 ++ 11- 809 10- 14- 769 ++ 01- 720 03 02- 692 01 07- 658 ++ 08- 601 ++ 20- 584 ++ 13- 565 ++ 14- 543 12- 20- 518 14- 18- 479 ++ 23- 446 ++ 33- 410 26- 38- 319 ++ 49- 251 53- 213 58- 178 51- 118 56- 030 48-
	04 11501	017	008	697	001 19 11 960 ++ 10 951 15 08 931 15 06 920 ++ 04 900 ++ 11 864 10 00 850 ++ 07- 835 ++ 03- 798 ++ 09- 736 ++ 13- 687 ++ 09- 619 05- 16- 536 14- 20- 505 15- 22- 454 21- 30- 411 25- 38- 370 31- 42- 318 ++ 48- 291 45- 260 51- 226 56- 180 55- 165 52- 110 53- 094 55- 073 52- 030 50-
AUGHTON 03322	02 45500	021	014	661	011 17 08 004 21 10 990 20 08 833 09 07 830 09 07 817 09 02- 801 09 06- 712 ++ 25- 700 04 20- 672 01 13- 622 03- 15- 579 06- 21- 563 ++ 27- 496 15- 24- 490 16- 24- 478 ++ 22- 430 22- 25- 361 ++ 35- 347 33- 35- 342 34- 38- 306 40- 44- 220 55- 203 57- 165 53- 095 58- 039 52- 030 52-
	02 10931	017	011	658	999 20 09 934 15 08 882 14 01 853 ++ 03 818 ++ 01- 742 ++ 01 692 02 03- 670 01 19- 652 ++ 25- 628 03- 15- 609 04- 23- 558 07- 16- 535 09- 18- 521 ++ 21- 488 15- 20- 467 ++ 20- 443 ++ 26- 422 22- 26- 412 ++ 31- 377 28- 34- 298 40- 50- 215 56- 175 57- 126 53- 090 57- 043 54- 030 57-
HEMSBY 03496	02 00901	023	021	668	982 15 04 968 15 07 912 15 04- 887 13 00 832 12 05 758 08 04 740 ++ 04 655 01- 09- 622 ++ 11- 609 ++ 16- 568 07- 25- 498 ++ 27- 437 20- 33- 306 40- 50- 203 61- 173 56- 148 59- 064 52- 030 50-
	02 00902	022	020	655	012 14 07 986 ++ 01 966 13 04 957 ++ 05 911 15 04- 896 ++ 09- 846 14 02- 758 ++ 03 740 ++ 01- 707 ++ 04- 696 ++ 02- 662 ++ 02- 623 03- 12- 592 04- 21- 447 19- 36- 377 30- 46- 307 40- 50- 212 58- 189 58- 156 54- 130 58- 097 57-
CRAWLEY 03774	02 00900	022	005	645	995 ++ 09 955 12 10 935 17 08 914 ++ 00 910 17 01 895 ++ 06 856 15 04 763 ++ 05 654 ++ 06- 646 ++ 10- 621 ++ 10- 615 03- 13- 584 04- 21- 550 ++ 19- 461 16- 30- 295 ++ 50- 257 48- 188 61- 144 58- 108 61- 030 52- Pressure suspect above 100 mbs
	02 00902	019	002	647	996 18 12 939 13 10 916 17 06 879 15 03 856 15 03 710 06 00 637 01- 08- 606 ++ 11- 586 ++ 17- 574 05- 17- 512 12- 23- 501 12- 24- 461 15- 29- 406 24- 35- 360 31- 41- 301 ++ 49- 233 53- 175 61- 157 58- 098 60- 036 58- 030 54-
CAMBORNE 03808	02 00908	018	008	642	993 18 11 974 19 11 932 16 09 918 16 08 876 13 05 862 ++ 06 817 ++ 11- 798 10 07- 760 ++ 01- 722 ++ 05- 700 04 08- 680 ++ 10- 648 ++ 16- 628 01- 13- 602 ++ 14- 599 04- 16- 592 ++ 14- 457 19- 28- 428 ++ 34- 312 40- 50- 271 48- 207 58- 162 55- 108 57- 096 60- 091 57- 036 56- 034 51- 030 50-
	02 35681	014	004	678	983 16 13 960 17 10 926 17 08 887 14 04 852 12 06 800 ++ 04 791 07 02 778 07 23- 737 ++ 00 711 03 17- 692 ++ 05- 683 ++ 09- 658 ++ 06- 640 ++ 13- 623 05- 11 612 06- 12- 545 ++ 30- 496 ++ 31- 453 20- 47- 412 25- 48- 317 40- 50- 273 49- 228 54- 199 52- 118 56- 052 53-
VALENTIA 03953	01 644++	016	015	710	888 07 05 869 11 03 835 11 09- 803 08 18- 748 06 14- 443 24- 31- 331 39- 48- 232 55- 187 49- 156 52- 135 50- 109 54- 081 54-
	01 38530	015	014	720	992 14 08 905 09 04 854 09 07- 767 03 18- 631 07- 11- 517 17- 24- 310 45- 278 48- 221 47- 088 56- 676 54- 278 09800 48-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 4553+	019	019	725	985 10 09 955 ++ 06 895 04 04 861 05 02 810 ++ 01- 798 02 05- 773 03 09- 709 01- 11- 697 01- 14- 646 04- 21- 622 ++ 23- 563 13- 20- 540 ++ 17- 514 ++ 19- 476 20- 30- 336 40 48-
	02 856++	018	018	721	955 07 05 906 04 03 876 06 03 837 ++ 03- 736 ++ 06- 676 02- 11- 513 ++ 23- 470 20- 30- 418 ++ 41- 376 33- 42- 322 40- 47- 241 54- 179 48- 153 51- 066 49-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 756++	020	020	721	955 08 06 916 06 04 904 06 04 859 06 02 818 04 03- 766 01 05- 721 00 07- 524 17- 24- 477 21- 28- 427 ++ 36- 341 40- 47- 282 50- 243 50- 219 47- 145 49- 119 52- 100 51- 082 55-
	02 855++	021	021	719	952 06 05 922 05 05 881 09 01 804 ++ 02- 750 02 07- 646 03- 12- 574 ++ 25- 518 13- 19- 457 20- 29- 403 28- 36- 386 28- 35- 312 40- 46- 336 53- 217 56- 202 50- 156 52- 101 54- 077 54- 070 51-



## UPPER WINDS AT STANDARD LEVELS

22 June

1960

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	212245	T	270 07	+++ ++	260 06	260 04	300 03	310 04	280 07	260 13	200 18	210 19	210 24	230 24	230 15	200 06	160 03	100 11	P110 14	100 21	
	220500	P	000 00	+++ ++	240 05	260 05	250 05	230 06	240 06	250 11	250 14	250 21	250 18	240 19	250 19	240 11	220 06				
	221100	T	150 07	+++ ++	210 03	240 04	240 05	230 07	220 08	260 10	260 18	250 16	250 25	260 24	250 18	220 06	130 05				
	221659	P	160 08	+++ ++	190 07	220 06	220 07	220 08	230 06	240 12	250 16	260 23	260 28	260 24	250 15	250 08	210 02	090 03	090 14		
STORNOWAY 03026	212300	T	020 05	+++ ++	190 11	190 15	180 10	180 10	190 10	230 15	210 23	220 23	210 27	210 21	220 23	230 09	160 05	130 07	100 11	P090 25	
	220500	P	000 00	+++ ++	150 07	160 11	170 12	200 11	190 13	190 12	200 17	210 27	230 32	220 30	220 16	210 08	180 04	110 06	090 16		
	221102	T	150 09	210 06	170 08	150 11	180 09	170 09	190 13	180 12	200 21	220 28	210 33	220 28	230 13	220 07					
	221700	P	050 16	+++ ++	190 12	200 13	190 11	180 12	180 15	190 16	200 18	200 24	210 29	220 28	220 12	230 07	210 05	100 05	100 19	100 19	
SHANWELL 03170	212300	T	080 04	+++ ++	200 06	210 15	200 09	190 07	210 08	230 16	210 33	220 30	220 40	220 33	220 23	P240 07	130 05				
	220500	P	070 03	+++ ++	140 04	200 12	200 15	210 13	200 13	200 15	220 19	240 24	250 30	230 32	220 16	210 10	070 07	080 12	100 18		
	221100	T	050 05	070 03	170 09	190 15	190 08	200 11	190 12	190 19	200 16	210 19	220 20	230 21	200 19	210 06	120 09	110 12	110 19	P100 23	
	221700	P	090 10	+++ ++	130 09	160 09	180 11	180 12	180 12	190 15	200 16	200 15	200 22	210 19	220 16	190 07	110 01	100 10	100 18		
ALDERGROVE 03917	212300	T	060 03	+++ ++	190 09	190 12	200 15	190 17	200 19	190 17	200 27	210 37	210 42	210 36	200 32	200 09	150 05	100 09	090 18		
	220500	P	070 04	+++ ++	180 10	190 12	180 14	180 14	180 16	180 22	190 27	200 36	200 39	210 27	200 22	200 08	090 08	090 09	100 21		
	221100	T	100 09	+++ ++	170 15	160 16	160 16	160 19	170 20	170 26	160 29	180 36	180 39	190 29	180 21	210 06	090 05	110 15	110 22	P090 22	
	221700	P	100 10	+++ ++	120 16	120 16	130 13	160 21	160 22	170 29	170 38	170 44	160 46	170 33	190 10	190 06	100 09	100 07	090 12		
AUGHTON 03322	212300	T	000 00	+++ ++	190 11	180 18	200 13	200 12	200 15	210 27	220 25	220 48	210 57	220 59	210 24	P220 15	130 07	090 10	080 19	090 24	
	220500	P	110 08	+++ ++	140 09	150 12	170 12	170 15	200 17	200 23	210 24	220 24	220 24	220 31	200 15	190 09	090 06				
	221100	T	150 11	+++ ++	140 20	140 20	170 21	180 22	190 22	190 26	200 26	200 19	200 21	210 26	200 21	210 15	P130 07	100 15	090 15		
	221700	P	150 11	+++ ++	150 19	160 17	160 17	170 21	180 20	180 27	190 30	190 34	190 37	190 28	190 20	180 05	090 06	120 09	100 21	090 19	
HEMSBY 03496	212300	T	190 03	130 09	040 08	050 03	280 08	270 14	260 17	250 15	250 23	250 28	250 28	250 35	270 14	050 05	080 07	090 19	090 23		
	220500	P	000 00	+++ ++	110 10	110 04	230 04	230 10	250 14	250 15	240 24	230 28	240 36	240 40	240 10	280 05	100 07	080 14	090 22		
	221100	T	100 10	120 13	120 12	150 09	210 10	230 15	230 16	230 18	230 24	230 34	230 36	230 42	230 16	320 02	P100 10	090 14	090 15		
	221700	P	100 12	+++ ++	140 13	150 14	170 12	200 12	210 16	220 20	220 24	230 24	220 41	230 30	250 16	250 05	110 05				
CRAWLEY 03774	212300	T	040 03	+++ ++	140 07	120 11	180 15	200 13	220 17	240 19	230 24	220 29	230 33	230 39	250 25	090 05	P070 06	090 14			
	220500	P	000 00	+++ ++	140 09	160 11	160 12	180 15	210 17	210 21	230 29	220 30	230 37	230 49	220 23	200 02	070 07	090 18			
	221040	P	110 08	+++ ++	140 08	160 13	170 17	190 22	190 24	200 23	200 30	210 35	210 45	210 51	220 24	220 11	120 07	090 13	100 14	110 24	
	221700	P	130 08	+++ ++	150 13	170 20	180 18	180 16	190 22	200 27	200 28	210 33	210 38	220 36	210 20	220 03	100 03	090 07			
CAMBORNE 03808	212300	T	110 18	+++ ++	200 07	190 06	190 16	190 19	200 21	200 28	200 38	200 44	200 53	210 46	210 32	210 13	150 06	100 03	100 18	P090 22	
	220510	P	100 23	+++ ++	160 18	180 18	180 15	180 20	180 33	190 40	200 41	200 38	200 42	200 43	200 25	190 10					
	221100	T	130 15	+++ ++	160 19	160 27	170 30	180 35	180 39	180 42	180 57	190 66	180 61	190 41	190 19	210 09	100 05	P110 12	090 23		
	221700	P	190 09	+++ ++	200 12	220 15	210 15	190 21	180 34	180 42	180 60	180 84	180 75	190 51	180 20	200 09	300 02	090 10	090 24		
VALENTIA 03953	212330	T	190 05	180 09	+++ ++	180 22	+++ ++	180 25	+++ ++	180 40	170 43	180 61	+++ ++	190 43	+++ ++	180 12					
	221200	T	350 06	160 07	+++ ++	170 06	+++ ++	170 12	+++ ++	160 41	140 49	140 65	+++ ++	160 23	+++ ++	160 07					
Ocean Weather Station 'I' 59°00'N 19°00'W	212300	T	270 09	+++ ++	210 08	220 12	200 11	190 10	200 13	170 16	180 15	210 04	330 07	210 10	210 10	200 03	150 06	080 04	080 20		
	220500	P	180 10	+++ ++	210 11	210 11	210 14	230 13	210 16	190 17	190 11	330 03	330 18	320 14	330 07	250 03					
	221100	T	170 12	170 15	230 13	220 12	190 16	180 16	200 13	200 13	250 10	300 23	290 22	280 19	250 12	240 06	190 06				
	221700	P	180 10	+++ ++	200 14	210 15	210 16	210 18	200 17	210 15	240 15	270 25	270 29	250 24	250 22	260 14	180 08	110 06			
Ocean Weather Station 'J' 52°30'N 20°00'W	212300	T	360 13	+++ ++	360 13	350 13	340 10	290 05	330 07	330 13	360 26	360 36	350 39	340 22	330 14	330 05					
	220500	P	315 10	+++ ++	340 09	340 10	340 09	350 10	340 16	330 31	340 39	340 59	340 63	350 44	330 18	330 13	280 06	000 00			
	221200	T	290 04	+++ ++	300 03	300 06	340 06	310 07	320 24	330 30	320 42	330 65	330 75	330 46	330 29	290 05					
	221700	P	180 10	+++ ++	240 07	260 08	260 08	260 14	290 17	300 25	330 26	320 60	320 62	310 52	310 25	290 12	240 06				
LARKHILL 03743	220630	P	120 04	+++ ++	150 12	170 13	170 17	180 22	190 23	200 26	210 35	210 39	210 55	210 50	220 24	170 09	220 03				
	221030	P	130 07	+++ ++	130 12	160 13	170 16	180 27	190 27	190 27	200 36	200 43	200 47	210 39	210 21	200 13	120 07	090 10			

## AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

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



STATION		MAX. WIND
LERWICK 03005	P.29100m 100 24	
STORNOWAY 03026	P.28000m 100 25 16860m 210 07 26300m 090 18 17260/5 092mb 210 08 28300m 100 17 12620/1	
SHANWELL 03170	P.20400m 100 07 17050m 200 02 13150/1 P28200m 100 33 25000m 110 20	
ALDERGROVE 03917	136mb 210 22 P.26400m 090 24 24600m 090 20 15450/1 17850/5 21100/0 18400/5	
AUGHTON 03322	P.30000m 110 25 20400m 090 11 13660/1 P.24600m 090 19	220 63 11770m
HEMSBY 03496	119mb 290 06 13270m 240 22 12280/1 13270/1 174mb 230 30 P.25400m 090 27 09900m 220 32	
CRAWLEY 03774	111mb 240 07 P.22800m 090 11 21900m 090 13 12990/1 18520/9 28800m 090 24 12900/1 18200/9 22800m 100 18	
CAMBORNE 03808	112mb 210 24 P.27300m 090 19 13750/7 14900/1 P.25500m 090 19 25800m 110 14 07630/0 11850/1	180 67 09550m 170 90 08360m
VALENTIA 03953	886mb 180 18 748mb 180 23 232mb 180 63 905mb 160 07 767mb 170 07 631mb 160 17 076mb 100 04	180 67 10000m 140 67 09720m
Ocean Weather Station 'I' 59°00'N 19°00'W	279mb 280 03 216mb 290 04 08400m 220 02 15600m 290 03 08900/8 10140/0 192mb 230 11 164mb 280 15 07800m 250 17 21600m 100 07 06410/2 11980/5 13580/2	
Ocean Weather Station 'J' 52°30'N 20°00'W	091mb 290 05 078mb 270 19 07800m 340 48 12600m 340 30 23400m 000 00 07190/0 10150/1 226mb 330 59 108mb 310 10 080mb 240 02 16800m 270 09 20400m 000 00 08950/0 12800/1	340 70 10150m 330 81 10260m 320 68 09600m
LARKHILL 03743	16980/5	210 63 11520m

## NOTES ON THE AEROLOGICAL SITUATION

The trough off the east coast of America continued to move east and the ridge over the central Atlantic intensified slowly. The low west of Ireland moved eastsoutheast and winds over the United Kingdom backed towards south. The ridge over the North Sea weakened slowly whilst the trough over eastern Europe intensified further.

AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
<b>LERWICK</b> (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	4
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
<b>LARKHILL/CRAWLEY</b> † 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 <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
<b>MALTA</b> (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropopause		Average	Max.	Min.	Max.	Min.	
		Press. Temp.	Press.	Press.	Temp.	Temp.	
Upper		mb. °C	mb.	mb.	°C	°C	
Lower		123 -65.7	...	73	...	-73	
		193 -59.8	266	...	-46	...	

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.

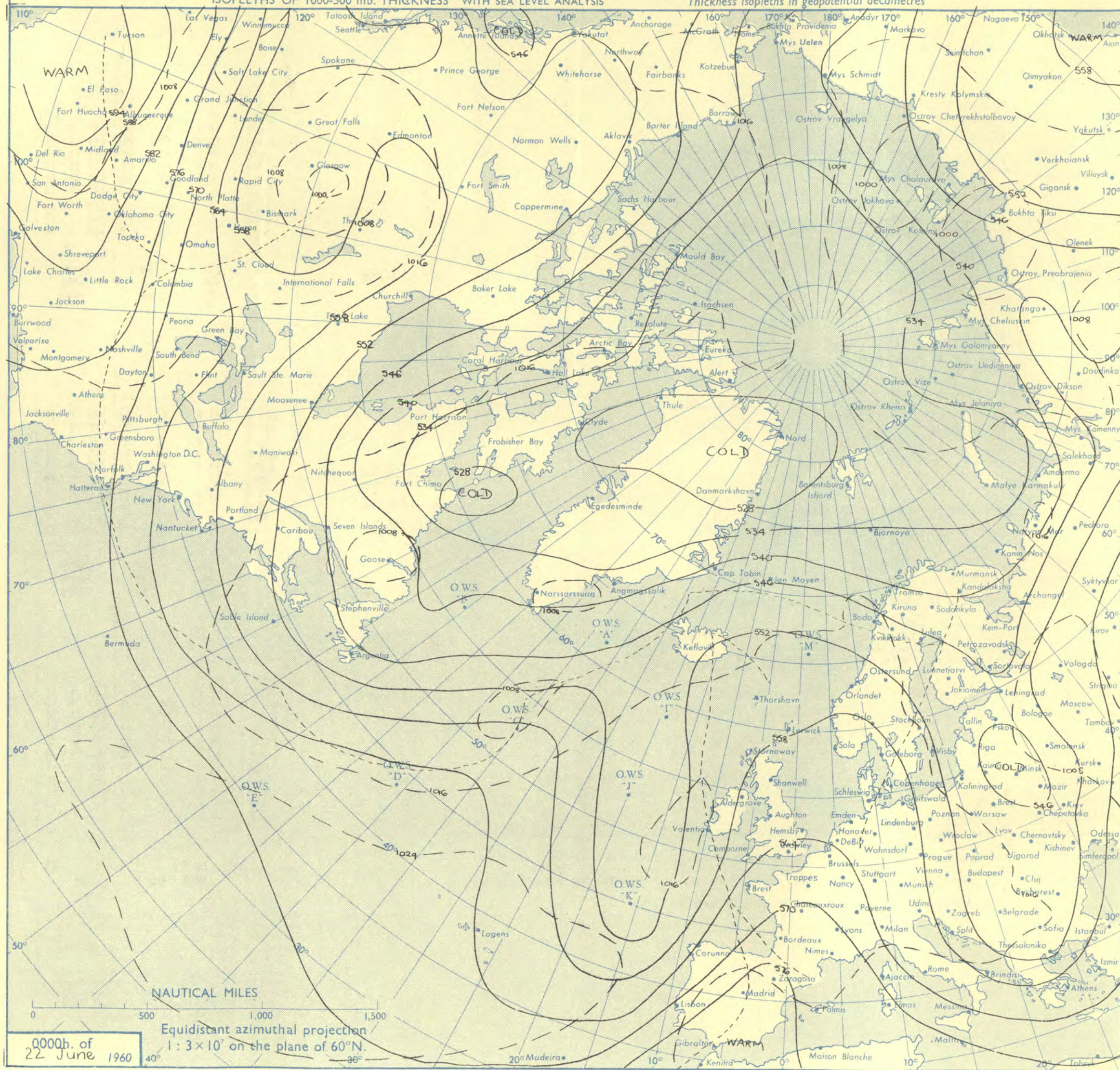
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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

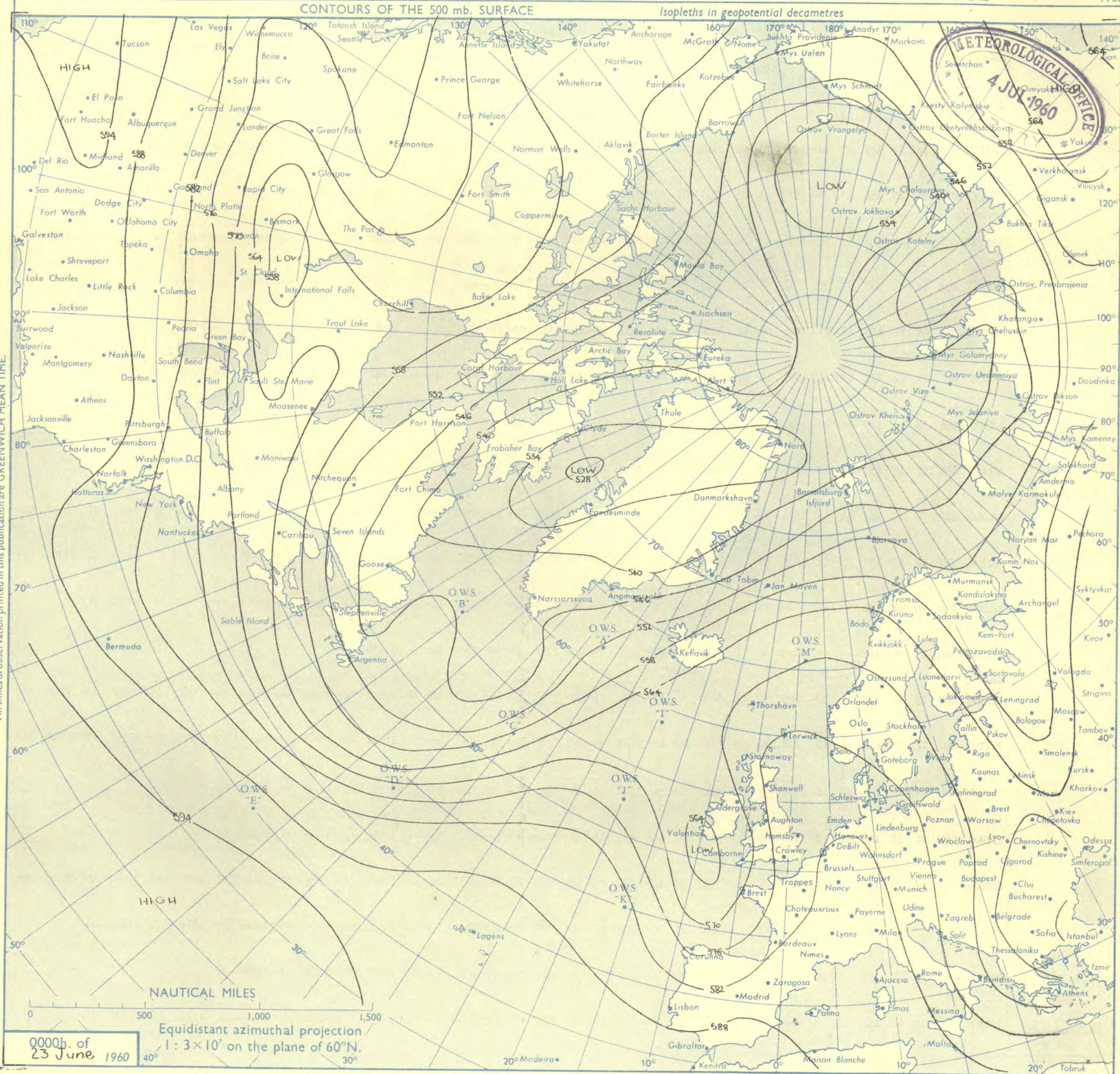




CONTOURS OF THE 500 mb. SURFACE

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	222244	082	10	10	177	09	08	1539	10	03	3130	02	08	5756	16	24	7404	26	35	9419	42	++	12047	56	13891	51	16516	53	18831	51	21035	49	24410	46						
	231100	082	12	12	185	10	08	1552	11	06	3143	01	11	5763	15	30	7410	27	40	9411	44	++	12033	53	13904	50	16539	51	18883	47										
STORNOWAY 03026	222303	013	12	11	157	17	11	1528	10	01	3118	01	07	5732	17	24	7375	27	37	9380	43	++	12005	55	13861	52	16479	54	18783	51	20968	51								
	231100	013	14	13	155	18	12	1537	11	04	3133	01	07	5760	13	23	7413	25	35	9413	46	++	12025	55	13857	54														
SHANWELL 03170	222300	005	13	12	155	13	10	1534	11	08	3133	02	00	5766	14	23	7416	27	37	9431	42	++	12068	56	13913	52	16530	54	18828	51	21012	52	24346	49						
	231100	005	15	13	177	12	10	1545	13	01	3147	03	02	5787	13	30	7444	25	39	9466	41	++	12110	56	13946	54	16560	54	18859	52	21038	52	24358	50						
ALDERGROVE 03917	230001	077	16	13	130	16	13	1501	09	07	3081	01	03	5697	17	21	7332	29	34	9317	46	++	11963	49	13838	52	16449	54	18752	52										
	231155	077	16	14	139	15	13	1508	10	07	3096	00	08	5734	12	22	7395	25	29	9420	41	++	12081	54	13948	51	16569	54	18843	56	20988	55								
AUGHTON 03322	222300	056	20	13	128	20	13	1510	12	08	3117	02	04	5751	15	18	7398	27	35	9402	44	++	12026	53	13878	53	16483	55	18770	53	20947	52	24260	50						
	231120	056	17	15	130	16	13	1496	10	03	3076	01	02	5692	16	30	7332	28	33	9329	44	++	11951	53	13804	53	16396	56	18681	53	20852	52								
HEMSBY 03496	222300	012	14	13	152	12	11	1524	15	02	3130	03	03	5769	14	30	7423	26	37	9434	43	++	12060	59	13880	55	16449	57	18714	54	20872	53	24177	51						
	231100	012	16	13	136	15	12	1516	14	06	3127	04	03	5763	13	24	7419	26	33	9450	40	46	12098	59	13941	52	16544	55	18829	54	20996	53	24304	51						
CRAWLEY 03774	222300	144	16	14	128	++	++	1519	13	08	3131	04	05	5775	15	26	7425	27	32	9437	43	++	12072	54	13925	53	16518	55	18805	53	20988	51								
	231100	144	17	16	122	++	++	1494	10	06	3088	00	07	5707	16	28	7351	28	40	9351	44	++	11979	54																
CAMBORNE 03808	222300	088	13	12	129	13	12	1487	09	00	3070	00	17	5686	17	32	7316	31	46	9291	44	++	12001	46	13906	48	16544	54	18827	55	20988	52	24301	50						
	231100	088	17	13	122	16	13	1478	06	04	3040	02	15	5629	21	32	7239	33	41	9193	45	++	11938	43	13863	47	16500	55	18775	54	20943	53	24248	53						
VALENTIA 03953	230001	014	15	13	128	13	11	1478	07	00	3043	03	06	5620	20	28	7220	35	42	9170	43	++	11910	45	++++	++	16440	54												
	231200	014	16	13	142	14	12	1496	06	05	3073	00	14	5690	17	30	7320	30	42	9300	42	++	12040	45	++++	++	16580	52												
Ocean Weather Station 'I' 59°00'N 19°00'W	222300		12	10	139	11	09	1479	06	03	3049	00	12	5670	16	18	7310	26	29	9330	42	++	11980	53	13850	51	16480	51	18790	51	20980	49	24340	48						
	231100		12	11	096	11	11	1448	11	02	3040	03	00	5700	11	16	7380	22	25	9430	36	40	12120	57	13950	54	16580	50	18910	51	21110	48								
Ocean Weather Station 'J' 52°30'N 20°00'W	222300		14	10	172	12	08	1520	08	01	3103	02	12	5740	12	16	7410	24	34	9450	39	44	12120	56	13970	54	16560	55												
	231100		15	10	152	11	04	1501	09	00	3092	02	05	5750	12	24	7410	24	34	9460	38	49	12130	58	13920	58	16470	57	18730	55	20860	56								



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	47 9+0++	021	011	670	992 09 07 970 13 09 930 14 10 870 ++ 01- 830 ++ 04 770 ++ 01 741 04 02- 725 ++ 07- 685 ++ 09- 656 01- 15- 590 ++ 16- 543 ++ 22- 464 20- 27- 426 23- 33- 310 40- 47- 235 55- 207 57- 146 51- 100 53- 030 46-	207	11820	57-
	47 9+0++	022	012	675	999 10 08 969 17 09 904 14 06 835 ++ 06 793 06 01 781 07 01 725 ++ 04- 658 01- 15- 602 07- 18- 485 17- 31- 407 26- 39- 323 40- 50- 274 49- 237 56- 228 56- 167 50- 100 51- 092 48- 081 50- 070 47- 056 48-	237	10930	56-
STORNOWAY 03026	02 00901	019	017	690	993 18 11 878 ++ 07 866 10 04 834 10 02- 830 ++ 04- 660 ++ 10- 588 ++ 20- 553 ++ 19- 500 17- 24- 449 ++ 28- 443 22- 32- 320 40- 49- 247 55- 215 56- 169 52- 107 54- 034 48-	247	10680	55-
	40 00900	018	017	702	008 ++ 12 991 20 14 975 ++ 11 890 14 09 837 10 03 809 10 01 730 04 05- 705 00 08- 623 05- 15- 570 07- 17- 476 16- 27- 452 20- 30- 403 25- 35- 327 40- 50- 309 44- 240 56- 211 54- 168 57- 134 53-	240	10880	56-
SHANWELL 03170	01 15501	019	018	683	984 13 10 966 19 10 959 ++ 07 898 14 10 852 11 08 841 10 06 824 11 05 780 08 03 751 ++ 01- 730 04 00 703 02 00 664 02- 08- 610 04- 17- 599 ++ 21- 525 ++ 21- 480 16- 25- 392 28- 37- 358 31- 41- 311 40- 47- 242 53- 214 56- 184 56- 178 54- 154 51- 100 54- 075 53- 067 50- 055 52- 030 49-	214	11620	56-
	03 763++	021	020	666	996 12 10 975 13 05 955 14 06 931 ++ 06 909 13 01 892 ++ 08 869 13 00 840 ++ 02- 832 12 00 797 ++ 04 665 00 04- 640 ++ 09- 628 ++ 15- 567 07- 24- 539 10- 25- 521 ++ 24- 504 13- 31- 459 18- 31- 380 28- 41- 307 40- 50- 277 46- 217 56- 178 56- 145 52- 100 54- 030 50-	217	11590	56-
ALDERGROVE 03917	95 4568+	015	006	717	982 15 12 940 ++ 07 922 15 08 821 07 05 701 01- 03- 634 05- 08- 593 08- 11- 543 13- 16- 483 18- 22- 332 ++ 46- 300 46- 268 53- 201 49- 110 55- 052 50-	268	10050	53-
	60 4557+	016	007	700	004 15 13 980 14 12 932 15 13 828 08 05 741 03 04- 659 03- 11- 558 06- 16- 491 ++ 23- 422 22- 28- 400 ++ 29- 365 29- 34- 314 39- 45- 244 51- 226 51- 200 54- 173 50- 086 56- 047 55-	200	12081	54-
AUGHTON 03322	02 40931	015	008	678	962 18 12 848 12 08 840 13 05 836 13 04 820 13 04 768 ++ 02 758 ++ 00 717 ++ 00 680 00 09- 661 01- 08- 645 02- 10- 633 02- 10- 570 ++ 16- 557 10- 14- 472 18- 22- 442 ++ 33- 430 23- 32- 322 40- 46- 270 51- 229 56- 213 55- 204 53- 113 54- 095 55- 030 50-	229	11160	56-
	21 4562+	015	008	729	945 12 07 916 14 06 889 14 05 831 09 03 741 00 02- 708 01- 02- 636 ++ 06- 613 ++ 07- 561 10- 18- 498 16- 32- 465 ++ 35- 451 22- 31- 422 ++ 31- 323 40- 44- 248 55- 220 58- 204 52- 191 55- 162 52- 105 56- 050 52-	220	11350	58-
HEMSBY 03496	02 00902	018	017	657	000 12 11 959 15 12 942 15 12 912 15 07 896 15 03- 855 15 01 832 ++ 03 687 ++ 04- 649 ++ 08- 627 ++ 06- 602 ++ 10- 597 06- 10- 578 ++ 15- 565 ++ 23- 533 11- 22- 520 ++ 29- 476 17- 33- 359 ++ 39- 315 40- 46- 257 51- 217 57- 201 59- 176 58- 169 56- 154 55- 109 58- 098 56- 030 51-	201	12020	59-
	03 00903	016	015	660	980 13 11 939 18 06 912 ++ 11 882 16 10 863 ++ 12 839 13 00 799 ++ 03 777 10 02 658 00 06- 595 ++ 11- 535 ++ 21- 486 15- 26- 394 27- 35- 362 29- 37- 300 40- 46- 246 51- 198 59- 173 53- 153 52- 107 56- 030 51-	198	12150	59-
CRAWLEY 03774	02 30962	015	998	637	979 20 15 943 19 12 856 14 10 833 ++ 05 813 13 04 784 11 01 738 ++ 01 672 02 08- 652 02 17- 565 ++ 24- 509 14- 25- 490 ++ 30- 395 ++ 32- 330 37- 43- 249 53- 220 55- 164 52- 112 56- 042 50- pressure suspect above 200mb	220	11470	55-
	02 863++	014	997	699	993 15 14 941 13 11 913 15 09 905 ++ 06 840 ++ 06 827 08 04 816 ++ 05 807 10 00 800 ++ 09- 750 04 07- 729 ++ 10- 683 01- 06- 660 ++ 06- 539 ++ 15- 513 ++ 19- 495 ++ 32- 469 19- 31- 449 ++ 31- 388 31- 45- 320 ++ 50- 257 53- 231 55- 197 54-	231	11070	55-
CAMBORNE 03808	13 19583	015	005	697	985 13 11 954 12 10 930 11 00 910 ++ 07 904 10 06 890 ++ 04 872 ++ 05 843 09 03- 796 ++ 05- 770 05 00 699 00 18- 670 ++ 15- 612 05- 22- 562 10- 30- 525 14- 29- 397 31- 46- 340 40- 50- 323 43- 282 46- 226 44- 113 51- 103 54- 074 56- 051 52- 037 52- 030 50-	282	09700	46-
	80 634++	014	004	735	992 15 12 896 08 07 848 06 04 805 ++ 01 792 02 03- 752 ++ 18- 706 01- 15- 698 ++ 14- 692 ++ 18- 645 06- 16- 614 08- 25- 600 ++ 22- 547 14- 26- 498 21- 32- 445 ++ 38- 356 40- 47- 312 48- 285 41- 214 42- 131 51- 118 50- 103 55- 030 53-	312 103	08910 16310	48- 55-
VALENTIA 03953	13 785++	015	014	760	948 10 08 834 06 01 778 02 01 749 01- 02- 709 03- 06- 668 06- 08- 575 14- 19- 563 14- 20- 334 45- 320 46- 304 43- 257 41- 181 46- 147 51- 098 55- 077 55-	320 147	08900 13900	46- 51-
	02 884++	017	015	700	015 16 13 003 14 12 801 03 02 751 04 04- 577 09- 27- 493 18- 31- 452 24- 37- 409 29- 41- 315 44- 299 41- 162 46- 131 52- 105 51- 096 54- 060 56-	315	09000	44-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 855++	017	017	709	922 10 05 890 08 04 885 ++ 02 865 ++ 04 750 02 13- 696 ++ 03- 644 04- 08- 603 ++ 12- 584 08- 16- 546 ++ 24- 440 12- 24- 408 ++ 29- 378 ++ 32- 348 34- 42- 312 40- 47- 229 54- 203 54- 168 48- 129 53- 077 52- 055 49- 030 48-	229	11100	54-
	02 855++	011	011	662	938 07 07 893 12 04 849 11 02- 763 05 01 748 ++ 01 711 03 00 654 01- 02- (632 01- 03- 632 01- 03- 581 04- 10- 550 ++ 12- 520 ++ 16- 494 12- 17- 400 22- 25- 280 40- 43- 215 55- 196 57- 192 55- 165 59- 160 56- 126 50- 093 52- 042 47-	196 165	12200 13300	57- 59-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 755++	021	021	668	004 ++ 09 939 07 05 923 11 07 912 ++ 05 790 06 04- 740 04 16- 624 03- 08- 580 ++ 09- 570 ++ 13- 549 ++ 11- 536 11- 13- 503 12- 15- 433 22- 33- 356 30- 35- 295 40- 45- 224 54- 196 56- 182 52- 123 55- 076 55-	196	12200	56-
	02 754++	018	018	639	005 ++ 05 997 10 04 950 08 02 933 11 01- 890 ++ 03- 867 10 02 816 08 03 795 ++ 06- 784 ++ 02- 692 02 05 653 01 13- 640 00 12- 577 ++ 14- 536 08- 22- 459 17- 27- 362 28- 37- 290 40- 50- 169 64- 149 58- 108 56- 090 58- 047 56-	169	13200	64-



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	222244	T	140 07	+++ ++	200 07	230 05	220 06	190 07	200 11	220 07	260 07	250 17	260 25	250 26	250 14	260 07	110 13	100 08	090 14	090 24	
	230500	P	150 09	+++ ++	180 07	220 12	230 12	240 10	240 10	210 15	230 11	250 19	250 23	250 24	280 12	290 16	340 02	120 11			
	231100	T	150 10	+++ ++	200 11	210 09	250 07	250 08	250 11	240 09	270 12	260 25	260 24	260 13	290 08	310 03	110 05				
	231700	P	150 10	+++ ++	190 12	200 10	210 09	220 07	210 08	270 10	260 15	260 23	270 25	280 20	310 06	300 03	050 02	080 12			
STORNOWAY 03026	222303	T	000 00	+++ ++	160 10	190 14	180 13	170 12	170 14	190 18	200 17	200 26	180 32	200 21	220 11	260 05	110 06	100 11	P100 13	080 22	
	230500	P	050 12	+++ ++	140 10	160 07	180 14	180 12	180 11	170 15	200 18	190 28	200 36	220 11	230 04	280 04	150 04				
	231100	T	060 14	100 06	160 07	140 10	160 14	170 16	170 14	180 15	200 14	220 27	250 21	220 10	290 04						
	231700	P	050 08	+++ ++	200 06	170 15	170 17	170 21	180 18	180 15	210 06	240 15	230 20	310 15	310 04	270 01					
SHANWELL 03170	222300	T	090 04	+++ ++	140 14	140 12	160 15	170 16	170 16	180 16	190 12	200 18	180 20	180 23	220 10	250 04	P110 04	090 09	090 18	090 29	
	230500	P	090 08	+++ ++	140 20	140 20	140 18	150 17	160 11	160 15	140 08	160 13	180 20	180 13	190 05	090 03	100 05	090 12	090 19		
	231100	T	050 08	+++ ++	130 22	130 21	150 17	140 16	150 15	160 16	120 19	150 16	170 10	140 15	250 01	020 03	P120 06	090 10	120 17		
	231700	P	090 08	+++ ++	120 19	140 14	140 14	140 15	150 14	130 13	110 16	090 09	010 05	110 07	020 06	360 06	040 05	090 15			
ALDERGROVE 03917	222300	P	050 03	+++ ++	160 11	160 15	150 23	140 29	130 21	140 35	160 35	160 45	150 50	150 24	160 13	240 01	080 04	100 15	100 09		
	230500	P	070 09	+++ ++	120 18	120 17	120 17	130 14	130 22	120 19	130 37	130 45	150 54	110 12	120 03	130 06					
	231100	P	070 07	+++ ++	100 18	100 21	100 21	110 22	100 19	130 18	100 33	110 37	130 37	070 24	080 08	000 00	100 09	110 10	110 20		
	231700	P	100 10	+++ ++	130 19	140 22	140 22	140 22	120 30	120 20	090 22	090 33	090 22	060 17	060 12	030 07	090 08	150 07			
AUGHTON 03322	222300	T	100 09	+++ ++	140 19	150 09	160 12	160 17	150 29	160 29	170 41	170 44	170 48	160 30	180 15	020 04	100 06	100 17	090 17		
	230500	P	120 07	+++ ++	150 10	130 10	140 14	130 34	130 41	140 39	140 36	130 34	150 47	140 21	160 07	070 11					
	231120	T	070 08	+++ ++	120 18	130 24	140 30	150 30	160 30	150 30	130 44	120 45	140 55	110 21	110 19	090 05	100 12				
	231700	P	120 04	+++ ++	120 19	120 18	110 15	100 15	130 30	130 36	120 37	110 51	120 45	090 31	080 10	060 10	090 14	090 14			
HEMSBY 03496	222300	T	100 11	+++ ++	140 17	150 12	170 13	170 11	180 17	200 20	200 18	210 14	210 20	220 20	210 16	190 05	060 08	090 09	090 17	P100 23	
	230500	P	100 14	+++ ++	130 21	140 22	140 21	170 28	170 20	180 21	180 28	170 14	190 15	190 20	200 11	320 03	090 05	090 18	090 23	080 17	
	231100	T	100 17	+++ ++	120 16	140 23	140 30	150 28	140 27	130 25	150 27	190 23	190 28	170 28	160 11	140 10	070 06	110 12	080 18		
	231700	P	080 10	+++ ++	120 12	140 14	140 18	130 24	130 30	130 28	140 34	130 32	150 35	130 23	110 09	080 03	100 10	090 18			
CRAWLEY 03774	222300	T	060 07	+++ ++	140 16	160 11	170 26	170 28	180 28	190 35	190 30	200 34	200 37	200 25	P200 20	180 10	070 09	080 12			
	230500	P	000 00	+++ ++	170 11	140 27	140 27	160 31	160 43	170 47	170 41	160 32	170 36	170 37	190 13	290 03					
	231040	P	000 00	+++ ++	190 10	160 16	170 15	170 23	160 34	150 50	150 50	150 65	150 74	160 40	160 18	140 06	090 07	100 16	090 23		
	231700	P	180 03	+++ ++	200 05	180 05	140 05	170 15	140 40	130 42	130 50	130 60	130 63	120 35	130 09	100 06	120 12				
CAMBORNE 03808	222300	T	210 03	+++ ++	260 16	210 17	180 19	180 23	170 31	170 39	170 42	160 65	160 49	160 29	170 11	220 05	090 12	100 11	080 23	P110 22	
	230530	P	000 00	+++ ++	230 06	210 06	210 06	200 05	170 15	160 23	150 29	150 34	150 26	180 10	130 06	040 02	070 06				
	231100	T	200 11	+++ ++	220 09	230 07	210 03	140 05	120 11	120 12	130 14	120 18	120 14	110 12	100 05	300 04	080 17	110 13	090 20	P110 31	
	231700	P	000 00	+++ ++	330 03	180 02	170 03	000 00	100 06	090 08	090 12	090 16	080 15	040 14	050 11	050 08	040 03	090 16			
VALENTIA 03953	230001	T	330 05	320 05	+++ ++	040 05	+++ ++	040 06	+++ ++	090 10	070 10	050 13	+++ ++	010 14	+++ ++	060 05					
	231200	T	360 08	350 11	+++ ++	360 14	+++ ++	020 12	+++ ++	040 25	040 25	360 33	+++ ++	010 29	+++ ++	020 10	+++ ++	+++ ++	080 20		
Ocean Weather Station 'I' 59°00'N 19°00'W	222300	T	180 22	+++ ++	190 24	190 22	210 21	210 21	220 28	230 24	230 25	290 39	290 68	290 50	230 29	210 19	170 11	140 16	120 13		
	230500	P	180 20	+++ ++	170 26	180 25	170 25	190 22	200 22	220 22	230 33	240 30	270 51	280 51	240 23	180 16	000 00				
	231100	T	180 30	+++ ++	170 35	180 36	180 34	180 34	190 36	190 37	200 36	220 40	240 52	260 59	230 28	190 16	190 13	120 07			
	231700	P	180 30	+++ ++	180 45	200 46	190 46	190 45	200 44	200 47	190 54	190 55	190 59	190 64	190 33	190 24					
Ocean Weather Station 'J' 52°30'N 20°00'W	222300	T	190 09	+++ ++	220 09	230 13	+++ ++	+++ ++	+++ ++	+++ ++	310 31	310 47	320 60	310 47	280 20	270 08					
	230500	P	180 10	+++ ++	200 12	220 10	250 10	+++ ++	+++ ++	+++ ++	+++ ++	310 47	310 52	320 55	310 31	290 07	010 02	170 02			
	231100	T	180 14	+++ ++	210 15	230 17	250 09	260 10	270 14	320 16	300 24	310 33	310 39	320 48	300 29	170 06	060 07				
	231700	P	180 10	+++ ++	210 26	220 28	230 30	250 28	250 27	230 20	220 24	250 27	260 41	270 34	230 17	170 09					
LARKHILL 03743	230630	P	030 03	+++ ++	110 09	130 05	150 15	170 21	160 36	150 45	140 52	130 58	120 60	140 36							
	231045	P	050 03	+++ ++	190 06	170 06	150 09	190 15	160 36	140 42	130 59	140 79	150 78	140 28	150 15	150 07	050 09				

## 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
231231	54.5°N 28.9°W	006 999 758	061 08 08	049 05 05	917 08 04	1387 05 03	1881 03 02	01- 01-	2950 03- 12-	06- 17-	4154 11- 22-	17- 25-	5526 20- 28-	
Cloud :— 7/8 St. 500 to 1500 ft. 1/8 Ac. 10000 to 12000 ft.														
Inversion Levels :— 950 to 900mb 5½°C to 8½°C														
Isothermal Levels :—														
YYGGgg	POSITION	PRESSURE	SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL Surf. 0°C level	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C
Cloud :—														
Inversion Levels :—														
Isothermal Levels :—														
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	P28200m 090 26 326mb 250 18 060mb 110 09 21900m 090 14 16850/8	
STORNOWAY 03026	P28300m 090 24 30000m 090 22 19100m 130 07 11210/1 17100m 090 08 10980/2 11460/2	
SHANWELL 03170	170mb 190 13 P28200m 090 27 24600m 100 23 08860/2 23400m 090 15	
ALDERGROVE 03917	24700m 080 17 11250m 150 30 11250/7 25100m 080 25 08910/3 10750/7 13200/1 22300m 080 16 04250/5 07960/0 10300/7	
AUGHTON 03322	10480/0 11040/1 16160/8 056mb 090 15 23100m 100 16 11780/1 12780/1	160 61 11000m
HEMSBY 03496	08320m 180 20 28500m 090 27 08320/1 443mb 150 31 170mb 150 12 P25900m 100 24 13300m 140 14	
CRAWLEY 03774	P22500m 090 14 18030/9 17400m 110 06 01680/6 16730/9 13200m 150 15 25800m 090 28 02740/0 08290/0 12090/1 14680/1 18300/5 20100m 080 05 03590/0 11630/1 13110/1	150 81 10710m 130 70 09550m
CAMBORNE 03808	P28500m 090 24 20100m 080 10 21200m 100 14	160 69 09400m
VALENTIA 03953	749mb 060 06 575mb 050 07 257mb 020 19 147mb 350 04 077mb 020 03 751mb 010 13 577mb 020 15 296mb 360 24 130mb 020 17 060mb 050 04	
Ocean Weather Station 'I' 59°00'N 19°00'W	277mb 290 55 180mb 270 36 09900m 260 40 12900m 260 37 09300/0 11820/1 12790/7 157mb 240 40 047mb 090 08 12600m 190 49 17400m 190 12 11950/1	290 73 10760m 280 89 11480m 260 62 12080m 190 78 11700m
Ocean Weather Station 'J' 52°30'N 20°00'W	800mb 240 12 437mb 300 31 174mb 310 33 083mb 260 06 21600m 170 01 13410/1 11950/1 18150/9 105mb 220 10 051mb 080 06 18000m 130 08	320 61 10150m
LARKHILL 03743	13110m 120 15 01370/0 03370/0 11490/1	150 72 11520m 150 93 10180m

## NOTES ON THE AEROLOGICAL SITUATION

There has been a slow progression of the troughs and ridges over the Atlantic and western Europe. The low southwest of Ireland has moved slowly east and become more cut off as the upstream ridge has intensified. The southern end of the east European ridge is now cut off over the Balkans.

AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
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 <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropo- pause		Average Press.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
Upper		mb. °C	mb.	mb.	°C	°C	
Lower		123 -65.7	...	73	...	-73	
		193 -59.8	266	...	-46	...	

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.

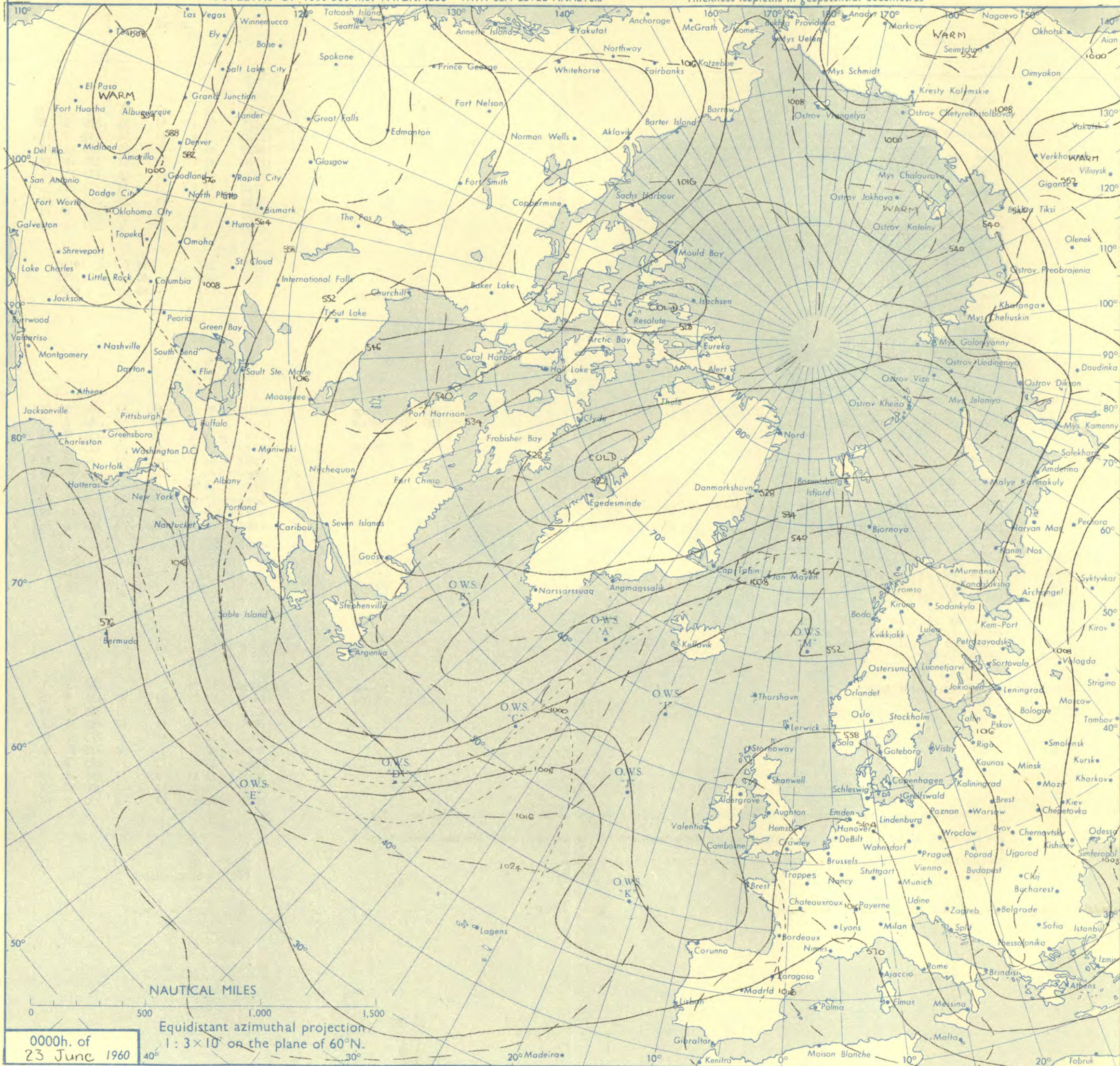
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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

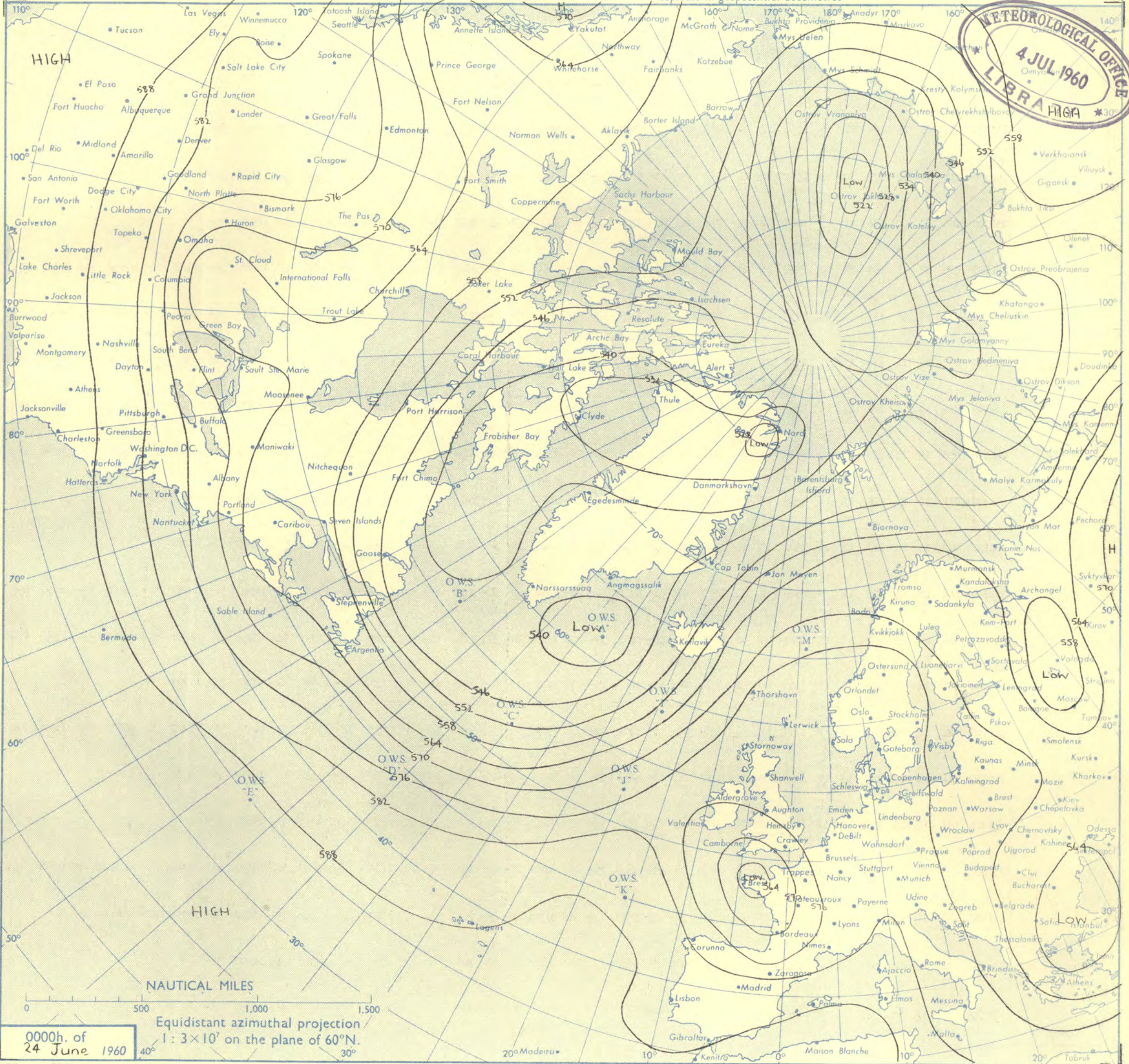
Thickness isopleths in geopotential decametres





CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

0000h. of  
24 June 1960Equidistant azimuthal projection  
1: 3 x 10<sup>7</sup> 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	232245	082	10	10	192	15	10	1572	12	05	3172	02	07	5816	13	25	7475	26	34	9495	41	++	12151	52	14021	51	16653	52	18972	51	21175	48	24559	46						
	241105	082	11	10	205	10	09	1564	12	00	3163	01	09	5800	14	28	7445	28	39	9450	42	++	12096	53	13958	53	16563	54	18858	53										
STORNOWAY 03026	232335	013	15	13	169	21	16	1558	12	07	3164	03	01	5807	13	25	7472	25	37	9500	41	++	12163	55	14006	54	16616	53												
	241100	013	19	14	179	20	09	1561	12	01	3162	03	03	5800	13	27	7455	26	36	9470	42	++	12118	57	13952	54	16560	52												
SHANWELL 03170	232300	005	10	10	194	11	09	1559	12	02	3156	02	05	5790	14	32	7440	27	43	9449	44	++	12074	56	13914	53	16506	55												
	241100	005	17	11	195	12	08	1562	14	01	3166	03	09	5808	14	30	7461	27	40	9483	43	++	12132	56	13975	55	16555	56	18788	54	20950	53	24267	51						
ALDERGROVE 03917	232300	077	16	13	162	17	14	1532	11	06	3124	01	02	5769	13	23	7431	25	33	9454	41	++	12096	55	13934	54	16533	56	18814	54	20994	51	24317	51						
	241100	077	19	14	178	17	13	1552	11	06	3141	01	03	5778	13	22	7435	26	34	9450	42	++	12087	57	13914	57	16491	55	18767	57	20911	55	24188	54						
AUGHTON 03322	232300	056	14	12	161	13	11	1537	11	06	3130	01	03	5761	15	18	7408	27	31	9427	42	++	12063	54	13921	52	16518	55	18807	53	20983	52	24309	49						
	241100	056	19	13	169	16	09	1538	11	04	3128	01	15	5752	15	23	7394	28	35	9402	43	++	12031	56	13878	55	16478	55	18963	53	21153	49	24508	48						
HEMSBY 03496	232300	012	14	11	151	13	11	1538	15	10	3148	04	03	5784	15	23	7438	26	35	9454	42	++	12098	52	13962	51	16568	55	18860	55										
	241100	012	15	14	144	12	10	1521	13	06	3120	02	02	5759	14	23	7417	25	36	9432	43	++	12054	57	13904	53	16501	56	18778	55										
CRAWLEY 03774	232300	144	13	13	149	14	13	1519	10	04	3110	00	03	5730	16	28	7368	29	35	9360	44	++	12050	48	13943	50	16560	54	18853	54	21026	52	24356	49						
	241100	144	16	15	150	15	14	1513	09	00	3088	02	06	5688	17	20	7329	28	32	9331	44	++	11991	48	13877	52	16490	54	18788	54	20949	52	24250	51						
CAMBORNE 03808	232300	088	12	11	142	13	12	1499	08	01	3075	02	09	5663	20	27	7278	33	41	9243	42	++	11986	45	13896	49	16521	54	18799	54										
	241100	088	16	15	155	14	12	1521	08	04	3099	01	08	5701	18	27	7331	30	37	9312	45	++	11987	49	13861	52	16455	56	18725	56	20883	53	24201	50						
VALENTIA 03953	232330	014	14	12	163	13	11	1525	09	06	3112	01	03	5750	13	28	7410	26	39	9440	40	++	12090	57	++++	++	16510	56												
	241200	014	18	15	178	14	12	1549	11	07	3150	04	09	5810	12	23	7480	24	37	9520	38	44	12200	58	++++	++	16550	57												
Ocean Weather Station 'I'  59°00'N 19°00'W	232300		12	12	065	12	11	1417	08	03	3000	00	24	5620	14	46	7280	25	50	9320	40	50	11960	54	13830	52	16460	53	18760	52	20960	49	24300	49						
	241100		12	10	112	11	09	1443	01	00	2983	07	15	5530	23	36	7150	28	42	9150	41	++	11870	43	13780	48	16450	50	18790	49	21010	48								
Ocean Weather Station 'J'  52°30'N 20°00'W	232300		14	12	148	12	10	1508	09	04	3097	02	25	5750	12	42	7420	22	33	9460	39	49	12120	59	13910	58	16480	57												
	241200		14	11	198	12	07	1538	04	03	3106	01	25	5730	15	32	7380	27	38	9390	43	++	12000	55	13850	54	16450	55	18740	53										



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE							
		MSL	Surf.	0°C level		mb	m	°C					
LERWICK  03005	11 36102	024 014 655	000 15 10 935 17 07 880 ++ 06 830 ++ 04 800 ++ 04 782 ++ 01 715 03 05- 645 00 14- 570 ++ 16- 552 ++ 20- 530 ++ 18- 499 13- 25- 480 16- 25- 307 40- 47- 257 50- 210 54- 178 51- 100 52- 030 46- Pressures doubtful above 050mb										216 11670 54-
	42 860++	025 015 656	988 08 07 981 ++ 06 950 ++ 02- 941 08 03- 921 ++ 02- 916 15 00 879 14 02 758 07 04- 696 01 09- 681 02 09- 648 ++ 15- 586 07- 17- 501 14- 28- 439 23- 36- 344 36- 45- 314 40- 50- 268 48- 233 54- 215 54- 161 51- 113 55- 100 54- 057 52-										233 11110 54-
STORNOWAY  03026	05 00900	020 019 667	997 22 16 985 ++ 12 852 12 07 832 13 04 774 ++ 04 715 ++ 02- 647 02- 07- 619 05- 11- 582 05- 17- 351 31- 41- 305 40- 50- 295 42- 275 44- 234 52- 203 55- 109 52- 087 55- 080 53-										203 12040 55-
	03 11600	021 019 670	000 20 09 954 18 06 873 13 02 810 11 04 750 06 01 723 ++ 01- 621 04- 11- 595 ++ 18- 582 06- 19- 498 13- 27- 442 21- 30- 399 26- 36- 329 38- 47- 307 40- 49- 271 48- 255 48- 200 57- 184 58- 170 54- 084 52- 078 50-										200 12118 57-
SHANWELL  03170	01 16300	023 023 676	010 12 10 983 10 07 969 14 05 959 14 06 932 14 04 920 ++ 05- 906 15 08- 886 ++ 00 879 13 01- 863 ++ 01 834 12 04- 783 ++ 00 768 07 03 721 ++ 03- 683 ++ 06- 668 ++ 09- 622 ++ 13- 619 05- 15- 604 04- 19- 537 11- 26- 521 ++ 31- 499 14- 32- 421 25- 39- 390 27- 43- 319 40- 50- 248 54- 242 53- 204 57- 154 52- 132 56- 105 54- 085 55- 077 51-										204 11940 57- 132 14740 56-
	02 00900	023 023 650	010 13 08 989 11 07 978 ++ 06- 952 15 08 925 14 05 896 15 04- 860 14 00 845 ++ 03- 828 13 07- 764 07 08- 712 04 06- 627 02- 18- 571 07- 22- 545 ++ 27- 386 29- 43- 314 40- 50- 226 57- 192 56- 142 54- 102 57- 030 51-										226 11340 57-
ALDERGROVE  03917	05 2563+	019 010 682	995 17 13 895 ++ 06 814 09 04 779 07 03 732 02 01- 679 ++ 03- 625 ++ 10- 605 03- 11- 528 ++ 17- 492 ++ 25- 453 18- 28- 400 ++ 33- 310 39- 47- 229 56- 142 53- 098 56- 056 51- 030 51-										229 11230 56-
	05 35500	021 012 680	993 16 12 937 12 10 898 16 10 843 11 05 771 06 02 752 ++ 01 640 02- 08- 587 05- 13- 478 ++ 25- 445 20- 28- 311 40- 49- 264 49- 212 57- 145 57- 133 55- 114 57- 081 55- 070 57- 030 54-										212 11700 57-
AUGHTON  03322	62 855++	019 013 674	998 13 11 969 15 11 951 15 12 925 15 10 878 12 09 859 ++ 06 808 ++ 04 779 ++ 04 702 01 02- 688 01 05- 681 ++ 07- 634 04- 08- 597 ++ 10- 523 ++ 17- 434 23- 26- 373 29- 34- 362 ++ 38- 309 40- 48- 255 51- 211 57- 204 56- 195 52- 133 54- 121 56- 030 49-										211 11720 57-
	02 00901	020 013 680	012 18 10 006 17 10 970 14 10 960 14 08 942 16 04 912 ++ 01- 902 14 02 890 14 01- 848 ++ 04- 842 10 07- 836 ++ 09- 801 09 08- 736 ++ 12- 605 06- 21- 589 07- 18- 568 09- 22- 557 ++ 19- 524 ++ 24- 490 ++ 24- 433 24- 34- 415 26- 34- 312 40- 46- 243 54- 228 55- 227 54- 203 56- 164 52- 110 55- 062 53- 053 48- 047 50- 030 48-										203 11950 56-
HEMSBY  03496	13 30963	018 016 661	993 13 12 978 16 14 931 17 09 920 ++ 01 889 18 07- 853 15 09 838 ++ 09 795 ++ 02 784 ++ 02 763 ++ 03- 722 ++ 05- 628 03- 07- 544 11- 16- 497 15- 23- 454 19- 24- 423 ++ 33- 310 40- 46- 215 57- 205 56- 200 52- 188 54- 178 51- 102 55- 059 53-										215 11640 57-
	02 865++	017 016 668	002 12 10 986 12 10 963 19 12 919 ++ 09 873 15 08- 862 ++ 05 810 ++ 07 777 07 02 761 ++ 02 732 04 04- 716 ++ 03- 697 ++ 03- 688 01 07- 682 01 10- 678 01 10- 638 ++ 12- 620 04- 20- 589 ++ 25- 552 09- 23- 541 09- 23- 511 13- 28- 499 15- 23- 460 18- 25- 422 22- 33- 384 ++ 41- 315 40- 50- 235 56- 208 59- 175 52- 103 56- 057 53-										208 11800 59-
CRAWLEY  03774	02 30962	018 001 699	983 15 13 968 ++ 13 916 ++ 04 908 13 04 861 ++ 06 781 07 01- 760 ++ 00 673 02- 05- 654 02- 08- 612 ++ 16- 604 ++ 14- 456 ++ 33- 426 ++ 31- 343 38- 44- 290 45- 242 48- 187 46- 104 54- 030 49-										242 10800 48-
	02 873++	018 001 724	985 14 13 959 12 11 890 ++ 09 864 10 01 743 ++ 04- 723 ++ 06- 692 ++ 06- 653 06- 08- 624 ++ 14- 551 ++ 17- 459 21- 24- 343 36- 40- 259 53- 244 50- 176 48- 154 52- 094 54- 042 51- 035 55- 030 51-										259 10310 53- 154 13700 52- (035 23250 55-)
CAMBORNE  03808	44 00900	017 006 732	996 14 12 948 13 11 897 10 07 888 ++ 04 823 07 03- 808 ++ 01- 782 04 05- 765 ++ 04- 738 00 06- 730 ++ 07- 705 ++ 08- 678 ++ 11- 665 ++ 12- 657 ++ 15- 581 11- 21- 500 20- 27- 440 27- 36- 365 ++ 45- 355 40- 46- 310 45- 299 44- 224 42- 134 52- 086 56- 056 53-										310 09000 45- 134 14620 52-
	10 863++	018 008 713	000 14 12 974 13 12 958 14 11 847 08 04 805 05 02 732 01 08- 694 01- 08- 629 06- 14- 581 10- 18- 572 ++ 15- 551 ++ 23- 516 16- 27- 457 ++ 30- 416 27- 33- 367 35- 41- 333 40- 45- 297 46- 291 45- 219 49- 238 48- 219 51- 202 49- 108 57- 030 50-										219 11380 51-
VALENTIA  03953	02 46400	019 018 690	975 12 11 926 13 10 850 09 06 800 07 02 690 00 04- 632 02- 16- 584 06- 21- 546 08- 26- 423 22- 37- 269 46- 200 57- 191 55- 060 55-										200 12100 57-
	03 854++	021 019 650	995 14 12 956 12 10 929 15 12 842 10 06 745 06 01- 675 02 13- 566 05- 17- 485 14- 26- 478 14- 26- 430 20- 35- 328 34- 43- 185 61- 179 59- 161 63- 149 58- 078 58-										185 12700 61-
Ocean Weather Station 'I'  59°00'N 19°00'W	51 872++	009 009 692	942 09 09 904 10 09 887 ++ 06 834 08 03 792 05 01 768 03 09- 695 ++ 26- 671 01- 28- 563 10- 43- 484 15- 46- 350 31- 49- 300 40- 50- 217 58- 193 52- 103 53- 030 49-										217 11400 58-
	03 6943+	014 014 832	964 08 07 817 01- 02- 786 02- 03- 745 ++ 11- 739 04- 12- 677 09- 18- 626 12- 23- 584 ++ 23- 562 ++ 28- 485 24- 37- 470 22- 35- 420 26- 40- 337 38- 50- 320 39- 50- 263 47- 250 44- 223 47- 205 42- 159 49- 133 46- 104 51- 091 48- 079 51- 074 49-										263 10100 47- 159 13400 49- 104 16200 51-
Ocean Weather Station 'J'  52°30'N 20°00'W	50 863++	017 017 660	959 10 09 930 ++ 10 921 13 11 870 11 04 842 08 04 820 10 07- 782 ++ 16- 640 ++ 32- 568 06- 36- 474 ++ 42- 420 20- 33- 296 40- 50- 209 57- 190 60- 143 57- 118 56- 093 57- 078 56-										190 12400 60-
	02 12502	024 024 715	018 13 10 985 11 05 923 07 03 889 07 00 844 03 05- 827 05 09- 726 01 23- 706 01- 24- 600 05- 30- 405 26- 37- 319 40- 50- 253 54- 219 58- 189 52- 107 55- 055 53-										219 11400 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	19800m 090 12 060mb 130 14	
STORNOWAY 03026	170mb 360 05 084mb 130 06 26100m 290 24 10610/0 12200/1 085mb 150 07 11950/9	
SHANWELL 03170	P27000m 090 37 19650/2 23420/3 25650/0 20100m 090 10 338mb 070 15 22100m 070 09	
ALDERGROVE 03917	23700m 090 20 437mb 100 14 P25100m 110 09 28300m 100 16 08250/6 09550/0 13140/1 13500/5	
AUGHTON 03322	19800m 090 12 P26100m 100 25 19800m 090 14 08060/2 09500/5 11380/5	
HEMSBY 03496	062mb 060 14 12900m 100 20 11800/1 14100/5 P27300m 110 28 12500m 110 12 08200/2 11980/1	
CRAWLEY 03774	19500m 100 09 02400/9 05150/0 11300/1 20100m 080 19 02580/0 05170/0 10440/1 11980/1 11370/1	120 63 09870m 120 78 09170m 110 65 09770m
CAMBORNE 03808	062mb 100 16 P25200m 100 27 05660m 050 44 12750m 040 29 26100m 130 16 05660/0 09770/1 12250/1 13900/7 17940/2	030 77 09480m 050 77 09570m
VALENTIA 03953	926mb 020 07 800mb 330 04 584mb 030 22 269mb 020 52 191mb 010 46 929mb 350 08 745mb 010 10 566mb 350 12 149mb 350 20 078mb 040 02	
Ocean Weather Station 'I' 59°00'N 19°00'W	127mb 190 39 11400m 190 76 14700m 170 35 17100m 190 17 07350/0 08800/0 11700/1 455mb 190 85 164mb 190 54 055mb 190 12 13200m 200 45 17700m 200 18 07300/0 09040/1 13640/1	200 102 11310m 180 114 09030m 180 108 07440m 200 102 08820m
Ocean Weather Station 'J' 52°30'N 20°00'W	087mb 200 12 17400m 220 12 04640/0 13200/1 16220/1 12600m 220 45 19800m 080 07 10790/0 11470/1	210 63 10150m 220 80 11100m 230 82 10340m 230 89 11130m
LARKHILL 03743	05070/0 13240/1 05230/0	060 70 08900m 110 102 09020m

## NOTES ON THE AEROLOGICAL SITUATION

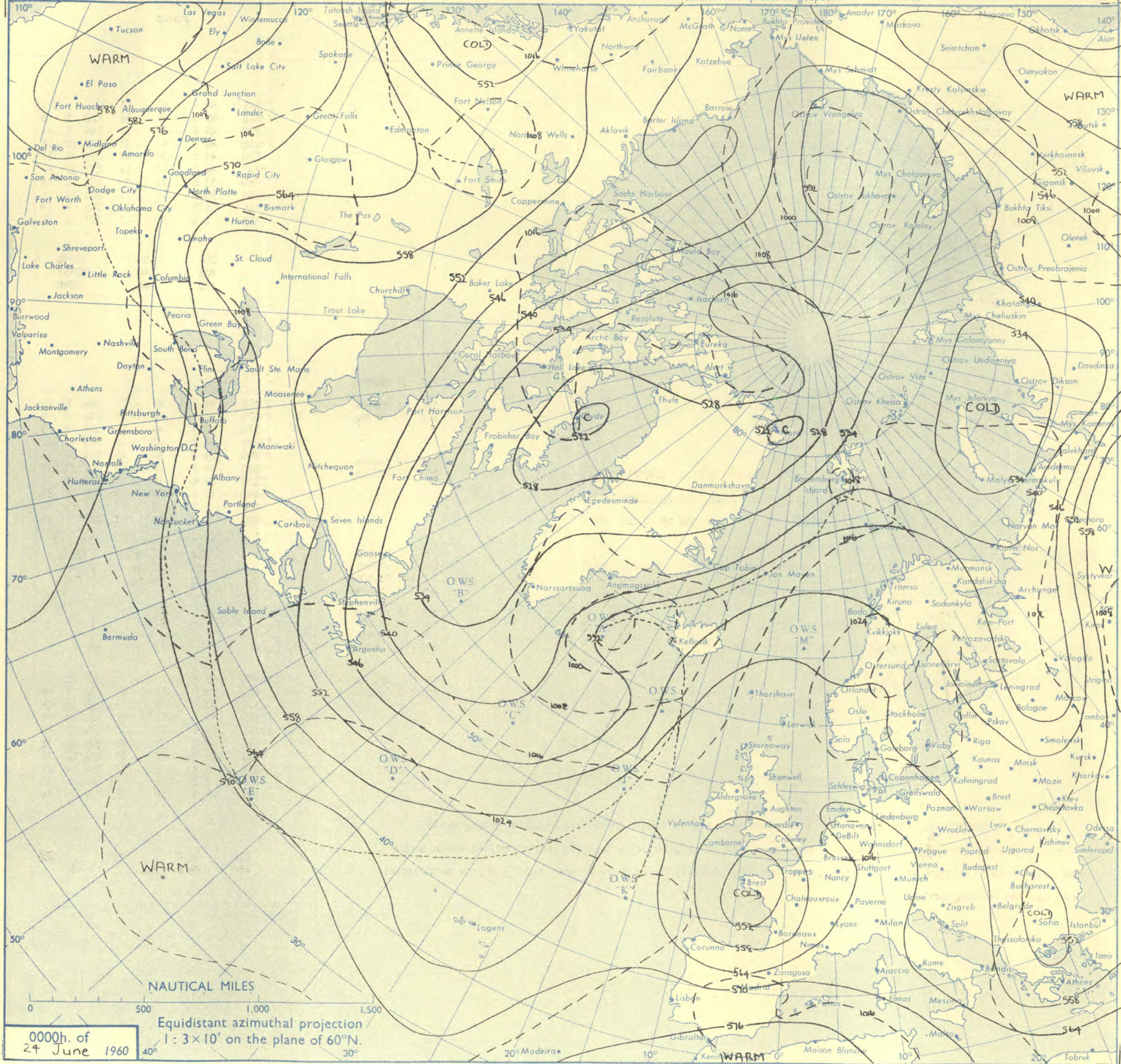
A cut-off low continues to move slowly southeast into northwest France and is giving fairly strong southeasterly winds over southeast England. The ridge to the north and west of this low has intensified and with the continued eastward movement of the eastern part of the broad Atlantic trough there is now a belt of strong southwesterly winds over the eastern north Atlantic.

AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
<b>LERWICK</b> (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
<b>LARKHILL/CRAWLEY</b> † (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
<b>MALTA</b> (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropopause		Average	Max.	Min.	Max.	Min.	
		Press. Temp.	Press.	Press.	Temp.	Temp.	
		mb. °C	mb.	mb.	°C	°C	
Upper		123 -65.7	...	73	...	-73	
Lower		193 -59.8	266	...	-46	...	
* V <sub>R</sub> = Vector average wind. V <sub>S</sub> = 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

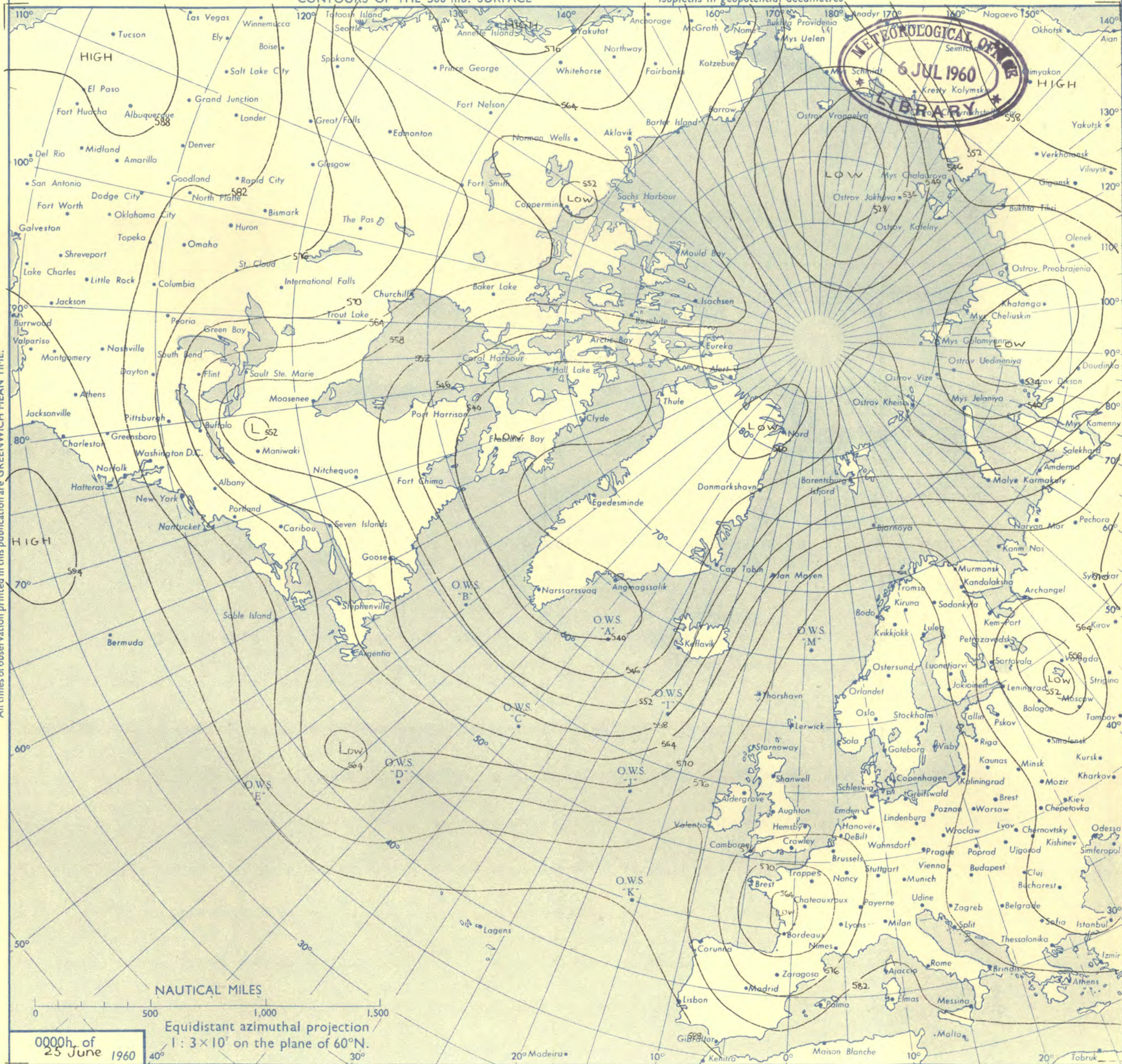




All times of observation printed in this publication are GREENWICH MEAN TIME.

CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres





STATION	YYGG	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	242320	082	11	11	200	10	09	1564	13	00	3166	03	13	5800	14	28	7447	28	40	9453	42	++	12086	56	13931	53	16541	54						
	251100	082	13	11	204	11	09	1571	12	01	3165	01	11	5798	15	27	7438	29	37	9438	44	++	12066	56	13926	51	16561	51						
STORNOWAY 03026	242303	013	14	14	192	13	12	1555	10	06	3148	01	03	5779	14	25	7434	26	31	9462	40	43	12126	58	13939	55	16542	53						
	251104	013	14	13	214	12	10	1567	08	05	3153	00	07	5762	17	21	7402	28	33	9407	43	++	12041	55	13903	51								
SHANWELL 03170	242300	005	11	10	191	10	08	1563	13	06	3166	04	15	5809	13	30	7465	26	41	9494	40	50	12147	56	13981	54	16586	54	18879	52	21056	51		
	251100	005	16	13	202	12	09	1573	10	02	3163	02	14	5783	17	29	7418	29	41	9424	43	++	12055	59	13898	52	16513	53	18831	49	21040	49		
ALDERGROVE 03917	242300	077	14	13	185	13	11	1561	12	00	3162	03	12	5799	14	30	7446	28	41	9457	41	++	12089	58	13927	53	16535	53	18839	51	21027	50		
	251100	077	17	14	198	15	13	1563	10	06	3161	02	11	5794	15	26	7448	27	37	9469	40	47	12117	59	13940	55	16545	54	18847	52	21039	49	24405	48
AUGHTON 03322	242300	056	15	13	170	19	14	1550	11	09	3151	04	16	5800	12	29	7460	26	38	9482	41	++	12118	57	13966	53	16565	54	18865	52	21051	50	24401	48
	251100	056	23	14	170	20	13	1553	11	09	3147	02	09	5778	14	30	7422	29	40	9419	44	++	12032	57	13846	57	16419	55	18690	54	20849	53	24145	52
HEMSBY 03496	242300	012	14	14	142	16	15	1536	14	08	3139	02	02	5781	13	29	7439	25	38	9450	43	++	12056	58	13895	55	16489	55	18786	52	20965	52	24317	47
	251110	012	19	15	150	16	13	1535	12	10	3132	01	04	5760	14	29	7419	25	42	9434	42	++	12063	59										
CRAWLEY 03774	242300	144	14	13	154	14	13	1524	09	07	3112	01	01	5746	14	21	7406	25	32	9434	41	++	12064	56	13911	53								
	251100	144	15	14	148	15	14	1524	12	08	3120	02	01	5764	14	17	7429	25	31	9451	42	++	12083	59	13918	53	16531	54	18820	55	20991	52		
CAMBORNE 03808	242300	088	13	13	164	16	13	1534	09	01	3113	01	05	5740	11	23	7413	24	37	9429	43	++	12059	53	13919	54	16512	55	18796	55	20966	52	24295	48
	251100	088	18	16	162	16	13	1536	13	01	3135	01	05	5769	13	20	7424	27	38	9421	45	++	12009	62	13826	55	16394	58	18667	55	20843	51	24199	47
VALENTIA 03953	250001	014	14	12	197	14	12	1567	10	06	3165	04	08	5810	14	28	7470	25	29	9490	43	++	12120	60	++++	++	16480	57						
	251200	014	16	13	222	13	11	1573	08	04	3156	01	43	5780	16	34	7430	27	44	9430	44	++	12040	58	++++	++	16450	55						
Ocean Weather Station 'I'  59°00'N 19°00'W	242300		11	09	151	10	08	1480	01	01	3017	07	13	5560	23	34	7160	34	47	9130	45	++	11850	43	13780	46	16470	48	18810	48	21030	47	24400	47
	251100		11	07	194	09	05	1509	03	04	3027	08	17	5560	25	38	7150	36	46	9090	50	++	11780	45	13710	46	16380	47	18720	50				
Ocean Weather Station 'J'  52°30'N 20°00'W	242300		13	11	227	11	09	1559	03	07	3117	03	23	5710	18	35	7340	29	36	9330	45	++	11940	53	13810	52	16440	53	18730	54	20910	52	24320	50
	251100		14	07	254	09	03	1582	03	09	3135	02	14	5720	18	28	7370	26	33	9380	43	++	11990	61	13820	52	16440	53	18720	55				



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE			TROPOPAUSE			
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	47 9+0++	024	014	662	968 09 08 944 ++ 10 907 15 08 879 ++ 01 813 11 01- 758 07 09- 595 05- 21- 569 09- 24- 511 13- 27- 407 27- 39- 315 40- 50- 265 50- 206 57- 159 53- 100 54- 082 54-	206	11190	57-
	02 362++	025	015	685	991 10 09 976 ++ 09 964 09 07 946 18 07 938 ++ 02 837 ++ 01 768 ++ 09- 661 02- 14- 538 10- 25- 400 29- 37- 373 31- 40- 320 40- 48- 287 46- 261 49- 236 55- 217 57- 202 57- 173 51- 100 51- 075 49-	217	11550	57-
STORNOWAY 03026	10 862++	023	021	682	018 ++ 13 977 12 11 964 14 12 930 14 12 901 11 08 820 09 04 770 ++ 04 753 ++ 00 711 02 00 692 ++ 04- 676 ++ 04- 670 ++ 07- 622 ++ 11- 602 05- 15- 589 ++ 20- 568 ++ 15- 535 11- 17- 501 ++ 25- 462 18- 24- 440 ++ 30- 416 24- 30- 297 40- 43- 198 58- 177 60- 131 53- 100 53-	177	12900	60-
	50 763++	026	024	700	972 10 08 957 11 09 921 09 06 900 10 07 754 04 02- 700 ++ 07- 645 05- 11- 582 ++ 13- 516 15- 19- 317 40- 46- 225 56- 160 51- 120 51-	225	11290	56-
SHANWELL 03170	03 863++	023	023	647	017 ++ 08 000 ++ 08 988 10 06 975 15 07 946 ++ 06 923 ++ 04- 908 17 07- 864 ++ 03- 720 ++ 15- 617 02- 19- 526 12- 27- 506 12- 29- 488 13- 30- 445 20- 36- 402 26- 41- 300 40- 50- 237 52- 214 56- 178 56- 149 53- 100 54- 057 53- 039 48-	214	11700	56-
	10 17302	024	024	668	020 14 11 000 ++ 09 994 12 07 984 18 07 942 ++ 05 910 ++ 05 881 ++ 00 802 ++ 04 792 06 00 775 ++ 05- 766 06 06- 738 ++ 06- 690 ++ 18- 607 05- 19- 526 15- 25- 484 18- 31- 440 24- 36- 363 32- 45- 315 40- 50- 230 55- 198 59- 162 52- 091 53- 047 49- 033 43-	198	12120	59-
ALDERGROVE 03917	10 860++	022	013	663	994 13 11 967 18 12 918 14 11 819 ++ 07- 792 10 07- 576 07- 22- 506 13- 29- 403 28- 41- 359 32- 44- 307 40- 50- 210 59- 165 53- 090 53- 043 49-	210	11780	59-
	02 363++	024	014	670	960 11 09 940 13 11 872 11 07 850 ++ 06 838 09 04 815 ++ 00 778 09 01- 703 02 11- 560 08- 21- 520 14- 25- 451 19- 30- 387 29- 38- 330 35- 43- 207 59- 138 54- 095 54- 045 48- 030 48-	207	11900	59-
AUGHTON 03322	02 00900	021	014	642	999 19 14 965 18 12 931 ++ 08 903 15 07 891 ++ 10 844 ++ 09 835 10 08 825 11 05 813 ++ 02- 792 ++ 05- 776 ++ 12- 754 08 10- 714 05 15- 704 05 16- 560 07- 23- 510 11- 29- 403 25- 38- 358 30- 43- 307 40- 50- 223 56- 196 57- 169 52- 119 58- 030 48-	223	11400	56-
	02 00900	020	013	675	011 21 13 960 17 13 939 18 10 868 12 09 850 ++ 09 799 09 05 780 07 02 725 01 01- 706 02 07- 689 ++ 15- 526 11- 28- 401 29- 41- 323 40- 50- 217 59- 103 55- 094 57- 067 53- 061 55- 030 52-	217	11550	59-
HEMSBY 03496	02 25500	017	015	678	997 17 15 980 22 17 878 ++ 14 856 ++ 08 847 14 08 730 ++ 03 723 03 00 710 ++ 02- 683 ++ 03- 665 01- 08- 628 ++ 18- 520 10- 26- 438 21- 34- 405 24- 37- 319 40- 50- 225 59- 203 59- 193 55- 096 55- 075 52- 052 52- 030 47-	225	11320	59-
	02 00901	018	016	686	004 16 13 957 19 10 943 ++ 07 903 16 07 852 ++ 11 770 06 04 736 04 02- 730 ++ 01- 651 03- 09- 638 02- 14- 634 ++ 17- 548 11- 25- 475 16- 32- 312 40- 50- 274 48- 208 59- 199 59- 187 57- 182 58- 170 54-	(208	11830	59-)
CRAWLEY 03774	63 861++	018	001	689	979 14 12 960 17 11 934 ++ 06 863 10 07 817 08 06 564 ++ 12- 554 ++ 15- 483 15- 22- 328 35- 43- 238 56- 162 52- 143 54-	238	10960	56-
	02 862++	018	001	671	963 12 11 912 16 09 842 ++ 08 823 ++ 05 787 ++ 05 726 ++ 00 613 05- 07- 600 ++ 07- 582 05- 10- 496 ++ 17- 490 15- 19- 485 14- 19- 428 21- 27- 308 ++ 47- 284 45- 208 60- 165 53- 067 55- 061 52- 034 52- Pressure suspect above 100 mb.	208	11830	60-
CAMBORNE 03808	46 3553+	020	009	716	000 16 13 997 17 14 929 ++ 08 879 ++ 07 852 09 02 818 07 01- 740 02 03- 684 03- 06- 651 ++ 12- 628 ++ 09- 605 08- 12- 581 ++ 12- 570 07- 20- 562 ++ 26- 550 08- 30- 522 ++ 22- 489 12- 24- 442 17- 30- 315 40- 50- 269 49- 232 56- 225 54- 209 57- 198 53- 173 51- 137 55- 069 55- 059 52- 036 51- 030 48-	232	11100	56-
	02 35500	019	009	691	009 18 16 987 14 11 967 16 11 900 13 08 894 14 09 870 13 08 856 ++ 01 838 12 02 761 06 01 750 ++ 02- 727 ++ 02- 718 ++ 05- 692 ++ 06- 685 01- 08- 642 ++ 12- 559 10- 13- 533 10- 16- 478 ++ 24- 447 ++ 27- 429 24- 34- 392 ++ 40- 372 ++ 39- 351 36- 44- 323 40- 48- 278 50- 230 59- 196 63- 172 55- 102 58- 087 54- 072 56- 063 52- 030 47-	196	12130	63-
VALENTIA 03953	02 2553+	024	022	650	954 12 10 925 14 09 771 07 02 722 03 00 711 05 03- 644 01- 13- 458 18- 27- 420 23- 27- 209 60- 195 60- 173 62- 157 55- 115 58- 073 55-	210	11900	60-
	02 864++	026	026	680	995 12 10 937 09 07 907 08 07 898 09 08 872 08 07 797 08 27- 627 05- 45- 434 22- 38- 298 44- 229 58- 169 55- 119 58- 096 55- 055 53-	229	11200	58-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 4843+	018	018	835	868 01 00 802 02- 02- 783 ++ 05- 742 05- 08- 713 06- 12- 595 14- 21- 523 22- 32- 501 23- 34- 350 40- 50- 290 46- 213 42- 195 44- 159 44- 147 47- 111 47- 094 49- 049 47-	290	09300	46-
	02 48531	023	023	891	941 ++ 01 921 02 00 900 ++ 02- 803 ++ 06- 798 06- 07- 764 06- 13- 720 08- 15- 686 08- 17- 646 12- 22- 635 12- 23- 577 ++ 30- 527 22- 35- 368 40- 48- 320 48- 295 51- 241 45- 155 45- 121 49- 097 47- 076 61- 062 50-	295	09200	51-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 35530	027	027	753	010 ++ 09 988 ++ 08 935 ++ 02 864 ++ 02- 860 02 03- 845 ++ 10- 811 04 14- 779 01 18- 731 00 24- 710 ++ 28- 695 03- 26- 677 05- 18- 671 ++ 14- 645 ++ 25- 631 07- 27- 544 ++ 38- 507 ++ 37- 467 22- 33- 429 25- 35- 378 ++ 38- 329 40- 44- 234 57- 218 57- 184 52- 180 48- 127 53- 086 54-	234	10900	57-
	02 20938	031	031	780	020 10 03 935 ++ 00 927 04 01- 894 06 01- 810 01 08- 710 02- 14- 580 ++ 24- 518 17- 27- 499 18- 28- 479 18- 27- 395 27- 34- 317 40- 46- 260 52- 194 64- 156 52- 070 55-	194	12200	64-



## UPPER WINDS AT STANDARD LEVELS

25 June 1960

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	242320	T	140 10	+++ ++	140 12	120 05	190 05	200 05	180 09	220 13	240 08	290 13	310 09	320 08	170 06	140 11					
	250500	P	160 04	+++ ++	180 05	230 03	240 03	220 03	210 07	170 10	230 05	260 07	330 06	360 07	170 10	150 08					
	251100	T	180 09	+++ ++	200 07	200 07	210 07	200 09	210 09	170 02	170 08	210 10	260 03	220 05	160 12	130 14					
	251700	P	280 10	+++ ++	260 07	240 10	230 11	230 11	230 16	200 14	210 12	210 15	210 08	200 10	200 14	170 10	150 08	110 10			
STORNOWAY 03026	242303	T	330 06	+++ ++	210 08	200 12	200 25	200 27	200 24	210 20	210 24	210 19	220 15	210 16	210 16						
	250500	P	000 00	+++ ++	220 05	200 09	200 16	210 27	200 25	210 25	200 24	200 26	200 29	200 29	210 13	170 14	140 13				
	251104	T	320 18	+++ ++	320 06	210 11	200 22	200 22	210 26	200 29	200 36	200 41	200 42	190 35	200 16						
	251708	P	350 15	+++ ++	340 11	260 04	220 12	210 23	210 22	240 22	240 31	200 41	200 51	210 38	210 15	210 12	160 08				
SHANWELL 03170	242300	T	000 00	+++ ++	070 05	060 06	110 07	150 07	200 07	240 03	030 05	350 03	280 05	360 10	P280 05	070 05	120 09				
	250500	P	000 00	+++ ++	160 09	150 09	140 06	100 04	190 07	200 05	360 06	110 05	360 13	350 10	P130 04	140 10	100 10	100 17			
	251100	T	070 02	150 10	150 16	130 10	180 09	170 07	200 06	260 03	080 05	200 04	330 13	300 06	200 07	140 05	130 09	120 13			
	251700	P	090 06	+++ ++	140 09	140 05	110 05	220 02	210 09	260 05	280 09	210 07	250 11	260 13	240 07	170 07	120 07	110 07	100 23		
ALDERGROVE 03917	242300	T	350 10	+++ ++	030 08	060 05	070 06	080 04	140 11	160 13	170 07	350 12	350 15	350 09	190 03	120 03	130 07	120 18			
	250500	P	340 08	+++ ++	010 09	010 05	320 02	020 03	170 10	180 06	170 10	230 07	250 07	240 06	240 06	240 06	210 06	100 10	100 10		
	251100	T	350 13	+++ ++	010 08	030 06	350 04	010 01	180 07	240 10	210 16	240 16	220 20	210 19	220 07	290 01	P140 08	110 14	110 16		
	251700	P	340 15	+++ ++	350 16	020 06	030 03	320 03	320 07	200 04	270 11	280 20	290 28	230 37	230 27	250 15	170 05	100 10	120 11		
AUGHTON 03322	242300	T	000 00	+++ ++	030 09	080 11	090 09	080 16	100 16	100 11	050 09	240 06	360 05	030 11	030 03	100 08	090 03	100 19	080 19	P100 25	
	250500	P	050 06	+++ ++	090 09	090 11	080 13	080 10	080 13	060 12	220 02	130 07	140 07	020 08	090 06	150 05	080 09	100 14			
	251100	T	360 05	+++ ++	040 09	070 07	080 06	080 12	020 07	060 07	320 12	320 11	290 11	300 03	120 01	130 09	110 06	110 09	P100 21		
	251700	P	340 07	+++ ++	020 10	020 07	010 08	040 04	050 07	340 09	310 15	320 13	330 17	320 18	260 03	110 05	110 06	110 15	090 11		
HEMSBY 03496	242300	T	350 08	+++ ++	090 18	100 20	110 13	100 14	080 17	050 17	090 18	080 07	150 08	090 10	100 07	100 10	110 10	090 17	090 24	P100 26	
	250500	P	070 07	+++ ++	070 13	080 14	090 13	080 11	090 15	070 13	090 12	020 06	330 06	070 08	070 10	110 09	110 06				
	251110	T	040 14	+++ ++	070 14	060 07	050 07	050 04	040 10	140 04	100 11	330 03	320 08	070 03	P090 05	050 07	110 15	110 11	100 21		
	251700	P	010 12	+++ ++	060 10	040 11	040 09	360 07	020 06	360 08	050 02	350 03	340 11	330 11	350 03	140 05	110 11	100 14	080 17	090 18	
CRAWLEY 03774	242300	T	360 05	+++ ++	010 04	080 07	080 23	080 19	090 25	090 28	090 35	100 44	110 46	090 22							
	250500	P	000 00	+++ ++	310 06	090 15	080 19	080 27	090 33	090 28	120 27	080 27	070 35	090 27	060 14	120 06					
	251100	T	020 05	+++ ++	080 10	080 23	080 25	070 23	080 20	090 17	050 22	060 21	080 22	070 19	070 14	050 04	P110 12	100 10	090 19		
	251707	P	000 00	+++ ++	050 13	050 16	060 19	060 22	060 11	050 10	030 09	010 19	010 11	030 13	360 06	100 06	100 05	110 15			
CAMBORNE 03808	242300	T	000 00	+++ ++	040 08	040 12	060 21	050 24	070 36	060 47	050 50	050 52	030 48	030 44	020 18	040 10	100 09	100 20	080 27	P110 27	090 24
	250500	P	340 08	+++ ++	010 18	020 24	040 21	050 20	040 27	040 24	040 30	040 33	020 32	020 36	020 12	040 07	090 07				
	251100	T	360 12	+++ ++	P010 22	P030 22	P040 19	P030 23	050 19	070 21	030 07	040 17	030 18	020 21	020 08	050 05	110 08	110 19			
	251700	P	350 14	+++ ++	010 21	030 20	040 19	050 15	030 16	020 18	350 20	340 13	350 12	360 16	010 07	020 07	110 06	120 13	120 18	090 17	
VALENTIA 03953	250001	P	000 00	+++ ++	010 06	010 05	010 04	010 06	360 04	290 06	260 10	250 12	260 20	260 16							
	251200	T	200 15	010 16	+++ ++	360 07	+++ ++	300 04	+++ ++	290 08	300 25	270 19	+++ ++	230 24	+++ ++	260 05					
Ocean Weather Station 'I' 59°00'N 19°00'W	242300	T	230 18	+++ ++	230 15	220 24	220 27	210 33	210 38	210 44	200 64	190 92	210 62	210 47	200 37	170 18	160 14	160 12	100 17		
	250500	P	270 20	+++ ++	230 17	230 23	230 24	220 30	220 30	210 26	200 31	200 44	180 50	180 53	210 34	210 28					
	251100	T	250 17	+++ ++	240 18	240 21	240 20	230 20	230 24	230 30	230 30	220 25	220 36	220 33	190 30	190 18	190 10				
	251700	P	225 20	+++ ++	230 23	230 24	230 22	240 23	240 30	240 31	230 54	240 65	230 45	220 34	230 30	170 19					
Ocean Weather Station 'J' 52°30'N 20°00'W	242300	T	270 13	260 20	270 23	260 25	250 27	250 28	230 39	240 44	240 46	220 57	230 69	220 49	230 39	210 26	210 04	110 03	080 03		
	250500	P	270 10	+++ ++	270 15	280 21	280 21	270 20	250 27	250 32	250 47	270 74	260 75	250 40	220 27	220 20					
	251100	T	000 00	240 05	250 05	280 05	270 11	260 17	230 27	240 37	250 48	250 56	260 58	290 96	280 31	210 18					
	251700	P	135 10	+++ ++	130 05	160 07	180 07	220 15	240 26	230 36	240 47	250 55	260 65	280 54	240 25	250 13					
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 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. 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
251224	46.2N 23.9W	027 019 676	061 14 13	223 12 12	1106 11 11	1582 09 07	2082 07 05	05 02-	3060 02 04-	02- 04-	4398 05- 12-	09- 17-	5813 13-	16-
Cloud :— 5/8 St. 700 to 1200 ft. 8/8 Sc. 1500 to 5000 ft. 5/8 Ac. 20000 to 22000 ft. 5/8 Ci. 30000 ft. to TNG. Inversion Levels :— Isothermal Levels :— 973 to 950mb 112°C														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.										Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2				



STATION		MAX. WIND
LERWICK 03005	17100m 140 13 080mb 130 15 22500m 130 21	
STORNOWAY 03026	108mb 230 13 11860/1 134mb 220 12 13270m 230 22	
SHANWELL 03170	P.19700m 120 10 20700m 110 21 038mb 110 24 24900m 080 43 24870/0	
ALDERGROVE 03917	22900m 100 27 P.25800m 100 21 22800m 110 16 12780/1	
AUGHTON 03322	22500m 100 15 P.25500m 100 13 24300m 100 19	
HEMSBY 03496	P.27700m 100 28 363mb 110 08 225mb 340 11 P.25600m 090 32 28800m 090 24	
CRAWLEY 03774	823mb 080 18 156mb 080 18 25800m 080 24 18910/1 19750/5 22500m 120 15	
CAMBORNE 03808	28800m 110 31 31500m 090 21 20100m 090 12 02130/2 430mb 050 14 032mb 090 19 Fill in pilot at 251200	
VALENTIA 03953	00300m 020 07 00600m 010 07 13500m 250 06 797mb 340 09 627mb 260 09 229mb 220 29 169mb 240 19 096mb 250 07 055mb 150 08	
Ocean Weather Station 'I' 59°00'N 19°00'W	119mb 200 27 041mb 130 13 12900m 200 42 16800m 210 27 12500/1 17400m 140 12 05820/0 09800/1	190 99 08930m 230 72 08600m
Ocean Weather Station 'J' 52°30'N 20°00'W	08400m 270 61 10100m 250 54 16200m 250 18 177mb 300 65 072mb 140 05 13200m 260 39 16800m 210 10 17700m 180 09 05100/0 11000/0 11510/1 13010/1	260 87 10770m 280 103 11830m 280 79 11250m
LARKHILL 03743		

## NOTES ON THE AEROLOGICAL SITUATION

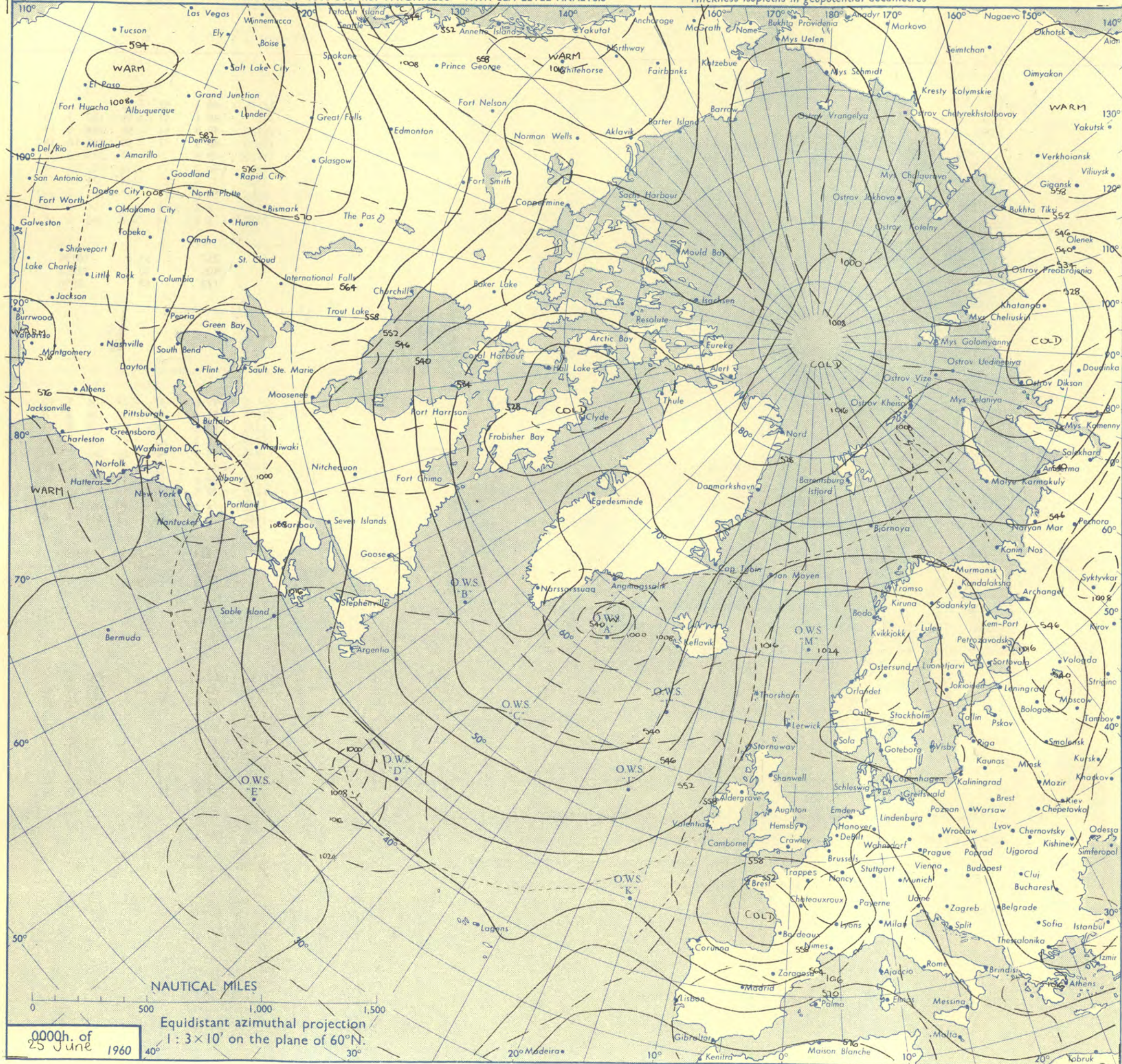
The cut-off low over France continues its south-southeastward movement and the high to the northeast has intensified slightly. Troughs over the Rockies and eastern America have progressed and developed and a new low, formed north of Bermuda, has moved into mid-Atlantic, but there is still a branch of the westerlies south of Greenland which is not affected by this circulation.

AVERAGE AND EXTREME VALUES 1951-55								
JUNE								
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.								
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>			
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	22345	-48.1	-42	-55	...	...	(11)	
60	19675	-48.1	-41	-55	120	3	8	
100	16320	-48.8	-41	-56	244	5	11	
150	13660	-48.3	-41	-59	263	10	18	
200	11770	-49.8	-39	-67	271	16	27	
300	9125	-46.7	-37	-56	271	22	41	
400	7160	-32.6	-23	-44	271	18	33	
500	5555	-20.8	-11	-31	269	14	26	
700	2985	-5.2	3	-14	266	9	19	
850	1435	2.8	14	-7	269	6	18	
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)			
Average		257	-54.7		10190			
Max.		405	-40		12955			
Min.		172	-68		6890			
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 <sub>R</sub> V <sub>S</sub>			
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	22310	-49.6	-47	-57	106	9	10	
60	19675	-51.4	-45	-59	136	3	8	
100	16370	-52.6	-46	-61	251	8	13	
150	13745	-51.8	-42	-65	265	15	21	
200	11890	-54.0	-40	-65	268	20	32	
300	9265	-44.7	-36	-54	265	20	39	
400	7275	-29.6	-19	-41	265	17	31	
500	5640	-17.8	-9	-28	263	15	25	
700	3050	-2.1	7	-10	263	11	19	
850	1480	5.7	16	-3	264	7	16	
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)			
Average		234	-56.8		10950			
Max.		388	-41		13440			
Min.		160	-66		7225			
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.								
Press. Level	Average Height Temp.		Extreme Temps. Max. Min.		Wind* V <sub>R</sub> V <sub>S</sub>			
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	(22185)	(-60.7)	...	...	120	5	11	
60	19670	-60.7	-53	-69	135	4	10	
100	16510	-62.9	-57	-71	255	21	24	
150	13995	-59.0	-51	-67	265	38	42	
200	12185	-56.6	-47	-67	275	42	47	
300	9530	-40.1	-33	-46	285	32	38	
400	7500	-23.9	-19	-29	285	27	31	
500	5835	-11.8	-8	-17	285	24	28	
700	3165	7.2	13	-1	290	18	22	
850	1535	17.9	27	8	290	9	14	
Tropopause		Average Press.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.		
Upper		mb.	°C	mb.	mb.	°C	°C	
Lower		123	-65.7	...	73	...	-73	
		193	-59.8	266	...	-46	...	
* V <sub>R</sub> = Vector average wind. V <sub>S</sub> = 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

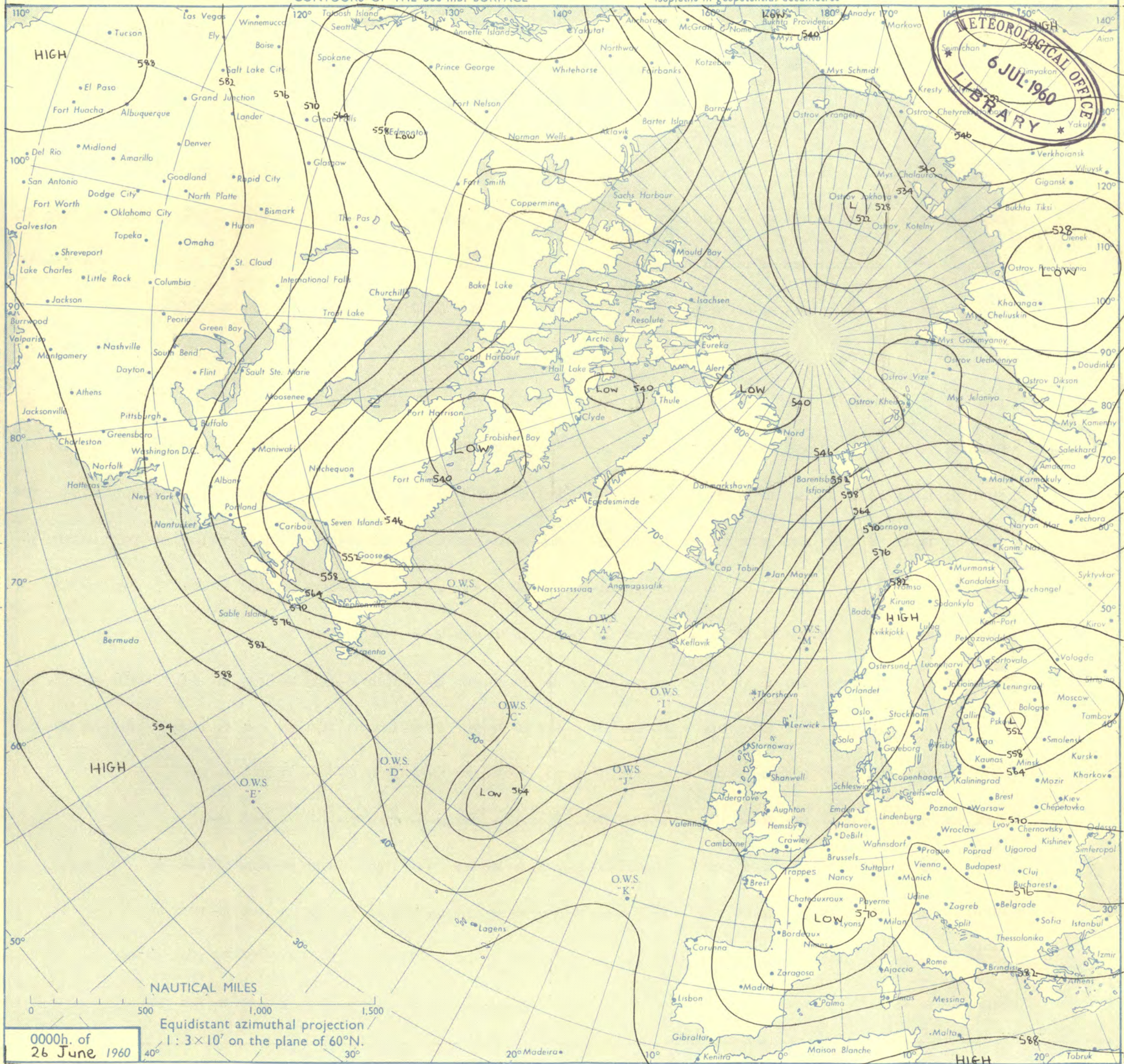
Thickness isopleths in geopotential decametres





CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



NAUTICAL MILES

0000h. of  
26 June 1960Equidistant azimuthal projection  
1:3 x 10<sup>7</sup> on the plane of 60°N.



52°30'N 20°00'W



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 863++	027	017	708	959 09 07 910 11 09 881 09 06 860 10 04 782 ++ 01 639 05- 17- 597 07- 22- 518 ++ 23- 463 ++ 34- 319 40- 47- 268 48- 206 58- 171 50- 125 53- 100 53- 038 49-	206	11820	58-
	02 48402	030	020	732	014 12 05 922 05 00 892 06 04- 879 06 07- 863 ++ 11- 839 06 13- 706 02- 27- 623 06- 28- 559 14- 29- 475 23- 33- 449 23- 32- 324 40- 48- 252 55- 232 58- 209 57- 190 51- 100 52- 097 52-	232	11030	58-
STORNOWAY 03026	02 1553+	030	028	702	024 ++ 09 014 12 10 976 ++ 07 924 06 04 906 08 01 885 08 01 842 ++ 03- 831 05 06- 821 06 08- 800 ++ 18- 782 05 18- 714 ++ 18- 658 ++ 31- 584 09- 36- 487 19- 40- 376 31- 37- 320 40- 46- 234 54- 213 54- 178 49- 114 52- 106 50- 083 50-	234	11020	54-
	03 11601	032	030	734	006 11 08 981 ++ 05 928 ++ 03 910 ++ 00 889 05 04- 849 05 10- 758 01 18- 730 ++ 24- 602 11- 28- 575 ++ 24- 506 17- 28- 494 16- 27- 438 21- 33- 330 39- 45- 298 44- 254 54- 201 62- 160 54- 107 54- 030 47-	201	11970	62-
SHANWELL 03170	01 16402	027	026	700	017 15 12 979 16 06 890 ++ 10 834 ++ 03 776 05 01- 748 04 03- 720 ++ 03- 709 01 05- 638 ++ 14- 592 08- 16- 492 19- 23- 454 22- 25- 423 ++ 31- 376 ++ 36- 364 33- 38- 326 40- 46- 233 57- 217 57- 185 53- 107 55- 039 48- 030 50-	233	11050	57-
	02 85600	029	029	722	024 14 10 999 11 07 981 11 07 950 10 07 912 09 06 885 10 07 865 ++ 05 833 07 01 730 00 09- 700 ++ 10- 669 02- 14- 590 ++ 23- 501 17- 28- 440 20- 31- 315 40- 50- 238 56- 199 62- 194 59- 184 59- 164 54- 121 54- 102 51- 087 53- 083 50- 054 48- 030 41- Pressure doubtful above 050mb	199	12090	62-
ALDERGROVE 03917	02 563++	027	017	692	986 10 08 923 14 10 846 11 04 815 08 03- 781 08 10- 723 ++ 03- 698 00 06- 682 ++ 07- 650 ++ 14- 582 ++ 16- 537 ++ 26- 462 19- 32- 321 ++ 47- 271 49- 231 57- 198 62- 169 55- 127 54- 119 56- 074 52- 050 52-	198	12110	62-
	02 464++	029	019	674	006 ++ 14 972 12 10 927 13 08 894 11 06 860 ++ 04 850 ++ 02 842 10 03 790 05 02 753 05 06- 730 ++ 03- 716 02 06- 698 02 11- 596 ++ 22- 559 10- 21- 522 10- 21- 468 15- 26- 373 27- 38- 333 35- 45- 309 38- 47- 244 52- 182 64- 135 53- 117 55- 082 52- 053 51- 030 48-	182	12750	64-
AUGHTON 03322	01 10930	023	016	732	985 13 08 973 14 08 915 ++ 06 891 ++ 02 862 11 04 841 ++ 07 820 ++ 01 790 ++ 04- 773 03 04- 746 01 05- 691 02- 14- 588 12- 21- 529 15- 26- 476 21- 31- 400 30- 34- 387 ++ 36- 328 40- 47- 209 61- 135 56- 113 59- 055 53- 030 52-	209	11650	61-
	03 41500	025	019	678	001 21 09 864 ++ 06 839 07 04 810 ++ 04- 794 06 07- 779 06 05- 763 06 08- 758 ++ 13- 668 01- 19- 643 02- 19- 504 14- 26- 454 19- 25- 385 ++ 32- 364 ++ 39- 327 35- 44- 286 44- 217 59- 193 62- 171 61- 165 57- 098 57- 066 52- 030 51-	193	12340	62-
HEMSBY 03496	02 00901	020	019	677	982 19 12 968 ++ 07 827 08 04 800 07 14- 770 06 21- 691 01 17- 660 ++ 22- 622 03- 22- 561 09- 24- 462 17- 35- 315 40- 50- 229 55- 207 57- 167 52- 107 55- 050 49- 030 50-	207	11850	57-
	02 00901	023	022	695	007 16 13 000 15 11 981 17 10 923 ++ 09 900 14 05 788 06 01- 758 03 03- 690 ++ 11- 680 01- 10- 650 04- 13- 624 04- 18- 566 09- 20- 484 16- 32- 326 40- 50- 281 48- 215 58- 168 54- 114 56- 057 53- 030 56-	215	11590	58-
CRAWLEY 03774	02 664++	019	003	702	950 18 12 902 ++ 07 829 ++ 08 725 ++ 01- 703 ++ 05- 683 02- 05- 663 ++ 07- 655 02- 12- 578 ++ 23- 538 ++ 21- 504 ++ 28- 432 22- 39- 393 ++ 39- 312 ++ 50- 252 52- 198 59- 178 54- 098 58- 092 55- 030 50- Pressure suspect above 100mb	198	12130	59-
	03 21600	021	004	651	992 19 11 906 13 10 875 12 07 790 ++ 02 785 05 00 766 ++ 07- 760 06 07- 713 03 12- 692 03 13- 530 12- 25- 480 16- 32- 315 ++ 50- 259 51- 227 57- 157 55- 108 56-	227	11260	57-
CAMBORNE 03808	02 35500	022	012	649	982 15 13 968 19 16 958 ++ 16 833 ++ 10 808 ++ 05 788 ++ 07 688 01 03- 652 00 08- 632 ++ 08- 547 ++ 18- 499 13- 20- 439 20- 25- 407 ++ 30- 306 40- 47- 209 60- 168 55- 124 57- 084 54- 030 50-	209	11880	60-
	10 864++	025	014	651	987 12 10 974 18 10 925 17 07 888 ++ 07 837 ++ 02 799 09 03 742 04 01- 726 03 09- 699 04 14- 531 09- 25- 433 20- 34- 336 ++ 43- 302 40- 50- 215 58- 187 62- 181 61- 173 62- 157 55- 030 52-	187	12580	62-
VALENTIA 03953	01 14500	028	026	680	945 09 07 863 11 15- 821 08 22- 763 08 26- 717 02 18- 636 03- 19- 584 06- 19- 471 17- 27- 443 18- 31- 380 27- 38- 269 48- 260 49- 195 64- 179 65- 160 59- 128 56- 070 56-	179	12800	65-
	03 11501	029	027	660	015 15 951 10 934 13 879 10 840 11 768 06 730 05 569 09- 492 12- 293 40- 160 71- 135 59- 103 61- 063 55- 015 15 951 10 934 13 879 10 840 11 768 06 730 05 569 09- 492 12- 293 40- 160 71- 135 59- 103 61- 063 55-	160	13700	71-
Ocean Weather Station 'I' 59°00'N 19°00'W	03 785++	030	030	881	870 01- 01- 838 00 03- 725 ++ 14- 598 16- 23- 580 16- 24- 416 32- 40- 405 32- 40- 216 56- 192 50- 077 52- 052 50-	216	11400	56-
	02 5857+	033	033	881	998 08 05 994 ++ 03 873 ++ 02- 852 02- 03- 816 04- 04- 791 01- 03- 755 04- 11- 732 05- 17- 701 08- 19- 690 08- 19- 663 10- 21- 648 11- 21- 615 ++ 23- 578 17- 22- 550 18- 21- 534 19- 21- 499 22- 23- 447 24- 25- 399 28- 29- 217 57- 242 50- 168 50- 153 48- 104 50- 098 49- 069 48- 053 49-	217	11400	57-
Ocean Weather Station 'J' 52°30'N 20°00'W	03 1557+	032	032	720	937 06 04 914 06 02 883 04 02- 843 05 07- 794 ++ 13- 784 ++ 04- 762 02 06- 739 02 06- 702 ++ 10- 638 09- 13- 604 06- 08- 364 29- 34- 303 40- 44- 211 59- 182 62- 173 66- 154 57- 121 57- 046 52-	173	13000	66-
	60 3557+	031	031	646	021 14 11 913 08 03 870 09 05- 862 ++ 09- 842 07 05- 803 05 04- 787 07 04 697 02 01- 611 01- 05- 445 15- 20- 391 22- 29- 284 40- 47- 201 58- 177 61- 170 54- 127 55- 087 51- 051 48-	177	13000	61-



## UPPER WINDS AT STANDARD LEVELS

26 June

1960

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	252245	T	300 07	+++ ++	330 09	290 05	260 10	240 11	210 14	220 16	200 22	200 31	200 26	210 29	210 14	230 07	P140 09				
	260500	P	350 15	+++ ++	340 13	280 12	250 15	240 16	230 16	230 20	220 32	230 30	270 36	240 24	230 16	210 09					
	261058	P	360 20	+++ ++	350 15	330 12	290 10	260 14	230 15	250 23	240 43	280 48	290 63	270 42	240 15	210 06	160 10	120 09			
	261700	P	010 18	+++ ++	350 16	320 14	320 12	280 15	260 24	250 26	270 46	280 55	290 70	280 51	260 22	250 12	250 05	010 03			
STORNOWAY 03026	252305	T	330 07	360 13	010 10	360 07	200 11	220 13	250 21	210 28	230 37	260 44	280 61	250 31	230 23	240 06					
	260505	P	360 06	+++ ++	030 09	290 03	230 06	250 12	220 21	230 28	260 26	280 49	280 64	280 63	250 19	230 08					
	261100	T	030 07	030 14	050 06	300 04	270 08	260 12	250 20	280 34	280 49	290 55	290 65	270 55	250 19	250 06	140 08	110 08	100 18		
	261700	P	030 18	+++ ++	030 06	100 03	300 04	260 11	260 21	260 27	260 42	270 52	270 57	270 52	260 22	270 13	230 04	080 06			
SHANWELL 03170	252300	T	040 02	060 09	080 09	100 08	130 08	150 05	240 07	270 10	270 13	290 18	220 21	250 20	270 08	110 07	110 05	130 09	100 15	P080 25	
	260500	P	000 00	+++ ++	060 04	090 04	130 05	230 04	260 10	250 14	280 18	310 29	330 52	320 36	290 12	240 03	120 06	090 15			
	261100	T	120 07	070 05	040 05	110 01	210 04	220 06	250 11	280 18	310 25	350 43	330 51	320 39	280 10	070 03	130 08	020 04	P090 20	090 26	
	261700	P	070 12	+++ ++	010 11	300 06	280 06	250 11	260 15	290 16	310 27	310 29	320 41	310 34	290 11	280 10	120 03	040 05			
ALDERGROVE 03917	252300	T	330 13	+++ ++	020 10	090 05	340 04	280 03	220 06	260 13	270 25	310 40	320 50	320 38	260 13	300 04	000 00				
	260500	P	360 12	+++ ++	020 10	080 05	010 03	260 06	330 05	270 10	280 26	320 37	330 48	320 50	280 10	310 07	070 02	080 15			
	261100	T	350 12	+++ ++	070 08	050 07	090 02	260 01	300 09	330 23	330 24	330 30	330 40	330 39	300 16	210 03	110 04	110 12	080 12	P080 25	
	261700	P	330 12	+++ ++	040 07	010 04	330 03	290 06	300 14	310 14	300 14	310 24	310 37	310 41	290 14	310 07	030 03	080 07			
AUGHTON 03322	252300	T	000 00	+++ ++	040 07	360 15	020 14	030 12	010 10	330 14	330 19	310 18	270 13	280 17	310 14	330 06	120 08	130 07	090 15		
	260500	P	040 05	+++ ++	070 09	060 13	050 12	020 12	010 14	350 14	330 28	350 37	350 51	350 46	320 12	060 05	070 06				
	261100	T	100 04	+++ ++	070 05	070 08	090 14	050 14	030 12	340 15	340 23	350 47	360 57	340 50	330 16	350 05	120 06	100 06			
	261700	P	300 08	+++ ++	080 07	100 08	120 06	010 04	330 07	340 10	010 33	350 35	360 46	340 43	330 08	320 08	350 05	080 09			
HEMSBY 03496	252300	T	010 10	+++ ++	060 19	030 17	360 14	020 13	040 09	020 12	320 06	320 12	330 13	340 17	010 11	030 08	110 09	090 16	080 21		
	260500	P	010 12	+++ ++	050 22	070 17	080 16	060 17	040 12	040 12	010 13	350 15	360 34	350 25	010 06	020 10	070 11	090 16	080 15		
	261100	T	030 18	040 27	040 26	040 24	060 20	060 14	020 16	020 12	010 19	010 29	350 30	360 31	010 14	080 04	P070 10	130 16	080 15	090 28	
	261700	P	360 19	+++ ++	030 33	030 31	030 27	030 22	010 18	010 15	010 24	010 41	020 60	010 41	360 11	340 08	030 07	070 13			
CRAWLEY 03774	252300	T	020 05	+++ ++	050 15	030 19	010 08	010 12	030 17	010 16	010 17	350 17	340 17	360 15	360 12	130 05	P070 08	080 12	090 16	110 23	
	260500	P	360 07	+++ ++	040 19	010 16	010 16	030 15	010 19	360 24	350 30	010 24	010 29	350 19	010 08	020 12					
	261100	T	360 12	+++ ++	050 20	070 22	060 15	050 14	040 16	030 22	030 22	010 27	020 44	020 37	360 14						
	261700	P	030 09	+++ ++	030 19	030 21	040 18	050 15	040 13	020 19	010 30	020 45	020 54	020 57	020 17	350 11	020 06				
CAMBORNE 03808	252300	T	360 08	+++ ++	050 12	050 15	050 14	050 11	010 19	360 20	360 27	360 26	310 19	340 17	340 15	020 04	140 03	110 11	080 17	P100 25	
	260500	P	350 08	+++ ++	030 11	030 11	010 12	350 13	010 17	010 22	350 31	010 40	010 49	010 57	350 13	010 09	060 09	110 11	080 20		
	261100	T	360 11	+++ ++	040 15	020 13	010 12	030 13	360 16	360 21	360 30	010 42	020 54	010 49	360 17	040 03	100 07	100 11	100 17		
	261700	P	350 07	+++ ++	050 10	030 14	010 17	010 12	010 12	350 15	010 30	020 36	020 40	010 42	350 10	010 09	050 10	090 12			
VALENTIA 03953	260000	T	050 10	030 15	+++ ++	020 09	+++ ++	310 08	+++ ++	280 19	280 20	320 34	+++ ++	350 47	+++ ++	290 04	000 00				
	261130	T	020 17	030 15	+++ ++	050 05	+++ ++	020 04	+++ ++	330 13	310 13	320 18	+++ ++	330 34	+++ ++	320 05					
Ocean Weather Station 'I' 59°00'N 19°00'W	260000	P	270 10	+++ ++	260 14	250 14	260 17	250 24	240 27	240 37	250 57	260114	250 83	260 36	260 39	250 15	180 04				
	260500	P	270 10	+++ ++	250 15	250 19	240 16	240 20	240 35	250 28	250 45	240 69	240102	250111							
	261100	T	180 08	220 13	220 15	230 18	230 17	230 17	230 22	230 42	230 90	230102	240113	240 77	250 36	240 23	240 16				
	261700	P	225 20	+++ ++	230 12	240 14	240 18	240 18	240 16	240 59	250 69	250118	250114	260 86	250 45	250 45					
Ocean Weather Station 'J' 52°30'N 20°00'W	252300	T	110 12	090 12	100 14	170 09	190 20	190 26	220 27	250 28	240 36	250 48	240 58	240 60	280 30	240 10	240 05	000 00			
	260500	P	135 20	+++ ++	130 17	170 12	170 16	190 23	230 26	240 28	230 36	220 41	250 51	230 55	250 22	250 15					
	261100	T	120 21	130 21	140 24	140 22	200 23	200 24	210 20	210 26	210 26	220 37	210 48	230 57	240 20	220 09	290 03				
	261700	P	135 10	+++ ++	160 16	190 11	260 09	250 11	210 18	220 30	210 23	220 29	230 48	230 38	230 21	260 12					
LARKHILL 03743																					

## AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

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



## Page 5

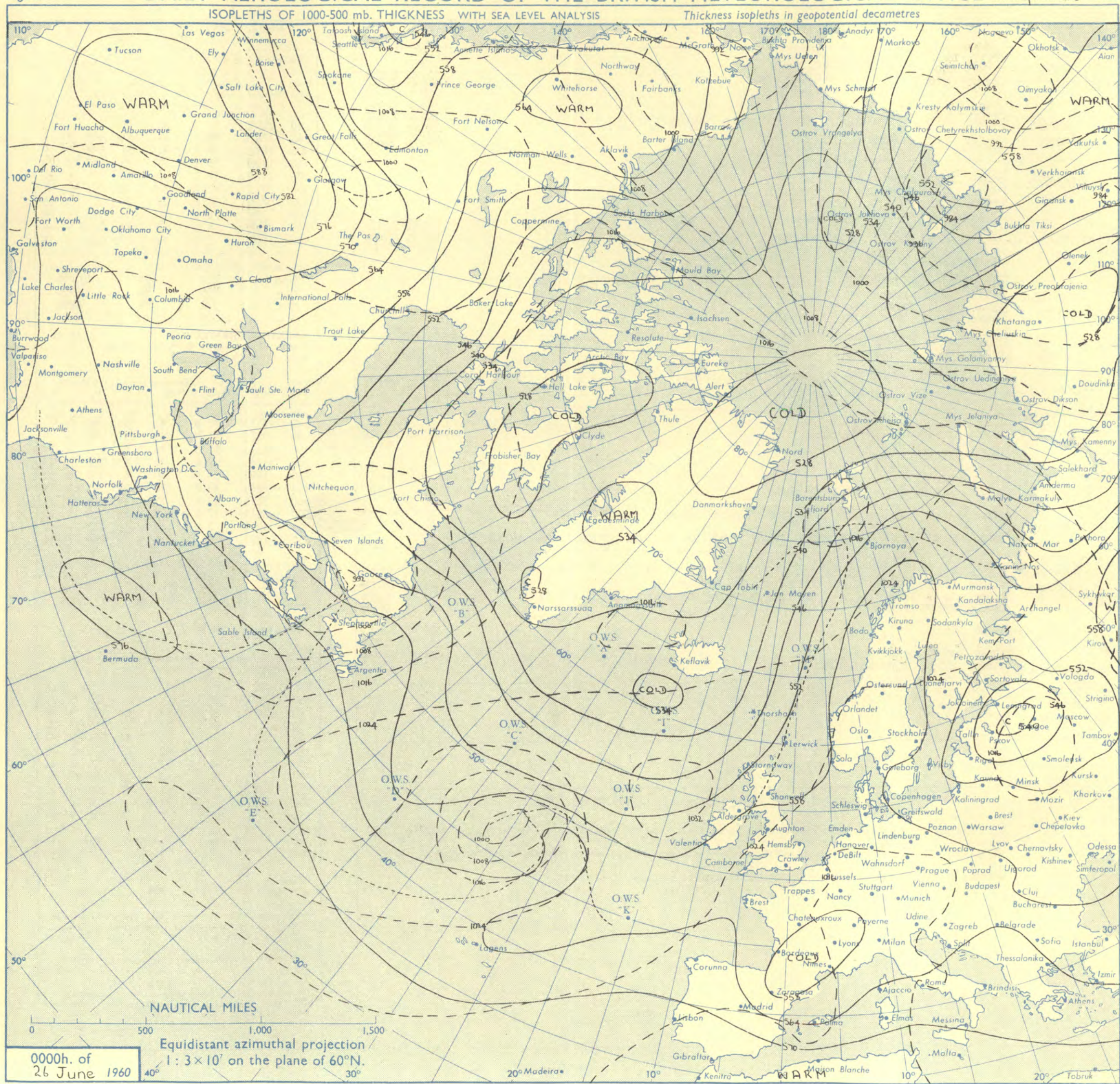
AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
<b>LERWICK</b> (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)	Height (gpm.)			
Average		257	-54.7	10190			
Max.		405	-40	12955			
Min.		172	-68	6890			
<b>LARKHILL/CRAWLEY</b> † 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 <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)	Height (gpm.)			
Average		234	-56.8	10950			
Max.		388	-41	13440			
Min.		160	-66	7225			
<b>MALTA</b> (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		123	-65.7	...	73	...	-73
		193	-59.8	266	...	-46	...

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.



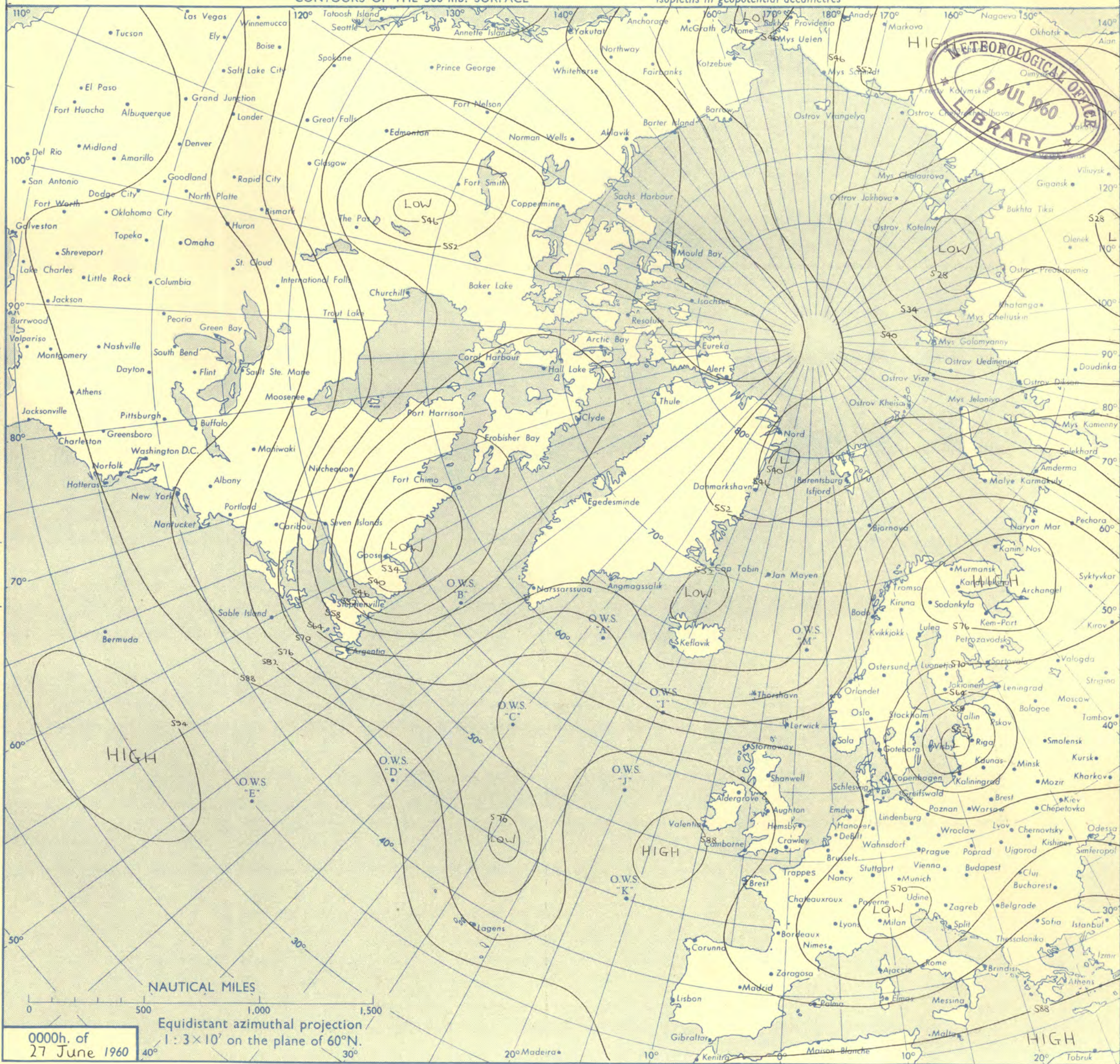




CONTOURS OF THE 500 mb. SURFACE

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	gpm	°C						
LERWICK 03005	262250	082	09	08	247	09	07	1575	02	05-	3128	04-	24-	5718	16-	19-	7363	27-	31-	9366	44-	++	11980	57-	13837	51-	16473	52-	18796	54-										
	271058	082	13	07	228	10	05	1548	01-	03-	3064	12-	16-	5561	28-	36-	7126	39-	50-	9072	41-	++	11811	45-	13719	48-	16381	50-	18706	51-										
STORNOWAY 03026	262305	013	13	11	261	10	08	1595	03	05-	3148	04-	20-	5743	15-	18-	7387	28-	32-	9389	44-	++	12009	56-	13865	51-	16503	51-												
	271100	013	15	08	268	11	05	1591	02-	04-	3114	09-	16-	5656	23-	40-	7291	27-	41-	9301	42-	++	11944	51-	13828	51-	16469	50-												
SHANWELL 03170	262300	005	13	09	254	12	07	1596	06	04	3164	00	26-	5799	13-	25-	7453	25-	31-	9483	42-	++	12118	60-	13951	56-	16550	53-	18857	52-	21048	50-	24397	49-						
	271100	005	14	10	248	11	08	1578	02	01	3121	05-	09-	5712	13-	29-	7372	26-	35-	9397	40-	47-	12040	57-	13900	52-	16551	49-	18902	48-	21127	47-	24527	45-						
ALDERGROVE 03917	262300	077	13	11	246	12	11	1603	08	06	3187	02	18-	5828	12-	16-	7496	24-	30-	9521	41-	++	12151	61-	13932	56-	16528	53-	18832	52-	21018	51-	24372	48-						
	271100	077	16	09	254	13	08	1597	06	14-	3172	00	18-	5803	14-	34-	7464	24-	39-	9490	41-	++	12111	63-	13936	54-	16545	53-	18842	52-	21028	51-	24338	52-						
AUGHTON 03322	262300	056	15	12	233	15	10	1604	09	07	3193	02	12-	5835	11-	24-	7517	22-	37-	9562	39-	48-	12226	58-	14017	62-	16594	56-	18886	52-	21065	52-	24394	50-						
	271100	056	19	13	235	15	11	1584	05	00	3154	00	28-	5774	14-	33-	7424	27-	46-	9415	46-	++	11983	59-	13818	53-	16442	51-	18788	45-	21050	40-								
HEMSBY 03496	262300	012	14	12	216	12	10	1580	10	00	3165	00	11-	5785	15-	38-	7435	26-	45-	9447	43-	++	12072	58-	13891	55-	16479	55-	18759	53-	20936	52-								
	271100	012	15	10	227	11	08	1579	08	02	3163	00	12-	5798	13-	17-	7464	24-	29-	9490	42-	++	12104	63-	13919	54-	16521	55-	18815	53-	20994	52-	24309	50-						
CRAWLEY 03774	262300	144	15	12	215	15	12	1586	11	02	3177	01	07-	5809	12-	29-	7474	25-	41-	9494	43-	++	12125	58-	13941	55-	16530	56-	18808	54-	20983	52-	24296	51-						
	271100	144	15	13	223	13	10	1594	10	01	3179	02	12-	5818	12-	28-	7484	25-	41-	9508	41-	++	12142	60-	13953	55-	16556	54-	18845	52-	21030	51-	24350	51-						
CAMBORNE 03808	262300	088	14	14	218	20	15	1596	10	01	3188	03	15-	5840	11-	25-	7516	23-	37-	9552	40-	50-	12193	60-	13976	56-	16551	57-	18823	54-	20991	52-	24300	51-						
	271100	088	21	15	239	20	13	1614	10	03	3210	03	12-	5866	12-	18-	7538	24-	30-	9568	41-	++	12198	62-	13973	59-	16518	57-	18785	55-	20940	53-	24228	53-						
VALENTIA 03953	270000	014	14	12	248	15	13	1613	11	12-	3210	03	25-	5880	11-	16-	7550	23-	28-	9590	39-	46-	12230	62-	++++	++	16550	57-												
	271200	014	18	11	263	15	10	1622	10	05-	3215	02	02-	5870	12-	16-	7530	25-	28-	9550	41-	++	12190	60-	++++	++	16500	59-												
Ocean Weather Station 'I' 59°00'N 19°00'W	262300		12	08	283	08	05	1600	02-	03-	3128	09-	14-	5670	21-	34-	7310	27-	39-	9310	43-	++	11950	55-	13810	52-	16440	52-	18750	52-	20930	52-	24250	50-						
	271400		12	09	306	09	07	1631	02	07-	3190	00	28-	5790	16-	19-	7440	26-	29-	9460	40-	43-	12130	59-	13930	55-	16520	54-												
Ocean Weather Station 'J' 52°30'N 20°00'W	262300		14	13	268	12	10	1623	09	07	3207	00	03-	5850	12-	19-	7530	23-	35-	9560	41-	++	12190	62-	13970	58-	16540	56-	18820	53-	21000	51-								
	271100		15	10	282	10	07	1628	11	06-	3215	02	07-	5860	13-	24-	7530	24-	33-	9560	40-	49-	12190	62-	13960	62-	16490	58-	18750	55-	20900	54-								



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 1557+	030 020 772	983 ++ 06 960 ++ 00 872 ++ 00 852 02 04- 823 ++ 15- 818 03 13- 697 ++ 25- 653 ++ 17- 631 08- 21- 591 12- 16- 581 11- 14- 517 14- 17- 425 24- 28- 320 40- 46- 249 54- 216 59- 185 52- 141 50- 100 52- 057 55-			216	11500	59-
	02 68449	027 018 869	005 10 04 903 02 01 813 ++ 05- 795 05- 13- 695 ++ 16- 609 19- 22- 551 22- 30- 480 31- 41- 379 40- 50- 344 44- 323 44- 296 41- 140 49- 100 50- 063 51-			344	08150	44-
STORNOWAY 03026	03 17438	032 030 759	025 ++ 09 978 08 06 960 08 02 925 07 00 900 ++ 02- 861 03 02 850 ++ 05- 825 03 09- 752 ++ 18- 739 01- 17- 717 03- 18- 674 ++ 23- 648 08- 22- 621 11- 19- 613 09- 15- 594 09- 12- 562 10- 13- 515 14- 17- 357 ++ 38- 320 40- 45- 246 54- 226 57- 207 57- 190 54- 147 50- 080 52- 067 49-			226	11230	57-
	03 42530	032 031 875	989 10 04 922 ++ 01 865 01- 03- 800 ++ 05- 775 ++ 12- 741 ++ 12- 724 ++ 15- 692 ++ 17- 664 ++ 21- 644 ++ 20- 622 14- 26- 610 ++ 30- 563 16- 32- 490 24- 41- 472 21- 40- 457 21- 41- 430 23- 43- 312 40- 47- 242 54- 209 53- 165 49- 153 51- 073 51-			242	10730	54-
SHANWELL 03170	02 855++	031 030 743 702	017 13 08 963 09 03 940 08 01- 906 07 04 885 08 06 837 06 04 793 ++ 00 765 ++ 00 734 ++ 02- 731 01- 05- 722 ++ 15- 708 00 22- 700 ++ 26- 670 02- 31- 658 03- 24- 594 05- 21- 581 05- 21- 560 06- 21- 476 15- 27- 400 25- 31- 372 29- 35- 341 34- 38- 308 40- 45- 261 49- 208 58- 190 61- 181 55- 168 53- 142 57- 130 53- 122 54- 030 49-			190	12420	61-
	60 855++	030 029 821	913 04 03 885 04 03 780 ++ 05- 756 04- 06- 736 03- 09- 680 ++ 09- 673 07- 11- 659 07- 15- 647 ++ 20- 627 10- 22- 592 10- 28- 564 12- 31- 511 12- 34- 430 22- 36- 370 ++ 36- 300 40- 47- 219 58- 210 59- 201 58- 187 52- 148 51- 135 48- 130 51- 100 49- 030 45-			210	11730	59-
ALDERGROVE 03917	01 45600	030 020 671	975 11 10 948 13 11 914 ++ 09 870 ++ 09 800 07 01 770 ++ 18- 761 06 17- 650 ++ 18- 607 05- 16- 547 07- 13- 485 14- 19- 428 20- 26- 307 ++ 44- 257 50- 176 66- 154 56- 069 52- 043 50- 030 48-			176	12950	66-
	03 48402	032 021 699	995 12 07 935 ++ 05 930 07 03 919 08 01- 905 ++ 10- 797 03 13- 775 05 05- 736 02 05- 704 ++ 18- 614 04- 30- 529 ++ 37- 454 ++ 33- 401 24- 39- 337 ++ 42- 306 ++ 47- 202 64- 173 54- 057 51- 030 52-			202	12080	64-
AUGHTON 03322	02 45600	028 021 668	017 16 13 001 15 10 990 17 09 977 18 10 949 17 09 906 13 09 804 06 04 798 05 01 775 05 05- 758 ++ 05- 740 04 12- 627 03- 16- 617 ++ 22- 570 ++ 19- 457 14- 31- 294 40- 48- 207 57- 173 63- 165 59- 150 62- 144 57- 094 55- 083 53- 030 50-			173	13130	63-
	02 885++	028 021 703	020 17 11 925 09 07 885 ++ 06 850 05 00 832 05 09- 824 05 03- 816 ++ 00 800 04 03- 797 04 04- 777 ++ 24- 755 04 31- 676 ++ 29- 654 02- 10- 645 ++ 09- 620 06- 09- 555 10- 17- 537 ++ 19- 531 12- 22- 522 12- 28- 515 12- 30- 397 28- 47- 331 40- 50- 229 64- 221 65- 209 58- 116 51- 112 53- 094 51- 050 40-			221	11380	65-
HEMSBY 03496	20 863++	026 024 703	020 ++ 11 958 09 07 952 10 08 943 15 08 917 ++ 04 778 06 04- 721 01 10- 534 12- 35- 369 30- 47- 314 40- 50- 245 54- 185 61- 163 55- 085 56- 067 52- 035 51-			185	12560	61-
	02 754++	027 026 696	005 12 08 950 ++ 07 941 07 04 934 ++ 04 929 12 06 856 09 04 835 ++ 00 823 ++ 01 803 ++ 03- 794 06 04- 641 03- 20- 587 06- 19- 522 ++ 15- 485 ++ 17- 436 19- 24- 364 ++ 36- 308 40- 45- 204 63- 177 60- 168 54- 099 55- 066 52- 030 50-			204	11980	63-
CRAWLEY 03774	02 00900	026 008 681	983 ++ 12 969 13 09 949 16 09 879 ++ 06 836 ++ 00 771 ++ 03- 760 ++ 05- 750 ++ 03- 724 ++ 04- 708 01 06- 695 01 07- 675 ++ 12- 585 07- 20- 552 08- 25- 501 12- 29- 364 30- 45- 314 ++ 50- 267 49- 229 56- 211 56- 193 60- 145 54- 098 56- 058 52- 030 51-			193	12330	60-
	02 654++	028 011 677	001 ++ 10 987 11 09 952 10 08 945 ++ 09 933 13 08 918 13 05 726 01 10- 709 02 12- 619 ++ 23- 546 09- 22- 487 13- 29- 395 ++ 42- 334 35- 43- 306 ++ 47- 242 52- 194 61- 176 60- 170 56- 140 54- 098 54- 030 51-			194	12310	61-
CAMBORNE 03808	41 00900	026 016 654	001 20 15 969 19 11 887 ++ 09 870 ++ 08 840 10 01 826 10 05- 768 ++ 13- 640 01- 19- 625 02- 15- 610 ++ 20- 542 08- 19- 514 09- 22- 420 20- 34- 302 40- 50- 261 49- 174 64- 171 63- 161 63- 150 56- 098 57- 030 51-			174	13050	64-
	02 11502	028 017 653	00 20 13 900 13 09 887 13 07 881 ++ 04 799 07 00 789 07 01- 722 04 11- 594 04- 17- 508 ++ 17- 489 12- 18- 303 40- 45- 244 53- 184 64- 160 63- 152 59- 086 56- 030 53-			184	12680	64-
VALENTIA 03953	02 15600	030 028 640	015 16 13 885 10 04 876 11 02 833 11 14- 730 06 28- 688 02 24- 652 01 21- 604 02- 09- 534 07- 13- 317 35- 43- 220 57- 183 65- 133 57- 095 57- 082 53- 056 53-			183	12700	65-
	03 11502	031 030 660	002 15 09 957 11 07 914 12 02 891 10 03- 870 11 07- 825 09 02 680 01 03- 516 02- 06- 502 12- 16- 368 30- 33- 215 58- 184 62- 160 64- 122 57- 091 53- 046 56-			180	12600	62-
Ocean Weather Station 'J' 59°00'N 19°00'W	02 12560	035 035 889	005 08 05 901 ++ 00 847 02- 03- 829 02- 07- 817 01- 09- 781 ++ 13- 722 ++ 13- 687 ++ 17- 660 12- 17- 617 ++ 17- 610 ++ 23- 556 17- 29- 524 20- 33- 474 22- 35- 461 21- 34- 445 21- 34- 343 36- 47- 316 40- 50- 223 58- 218 58- 172 49- 160 52- 083 51- 066 52- 030 50-			223	11200	58-
	02 12566	037 037 781 709	998 ++ 06 979 07 05 904 03 02 883 03 01- 870 ++ 10- 802 ++ 04- 762 00 17- 736 01 27- 702 00 31- 667 03- 20- 652 04- 18- 578 11- 28- 553 ++ 30- 513 15- 20- 420 ++ 21- 414 24- 26- 395 27- 30- 298 40- 43- 197 59- 160 61- 150 55- 122 55- 072 52-			197	12200	59-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 7097+	032 032 670	026 14 11 960 10 06 940 09 02- 925 12 12- 920 13 01- 873 ++ 07 760 ++ 00 716 00 03- 695 00 03- 692 00 05- 683 01 11- 680 ++ 16- 674 00 10- 660 ++ 10- 617 04- 16- 587 05- 22- 582 ++ 17- 546 03- 14- 516 ++ 16- 469 15- 25- 459 15- 31- 445 17- 32- 423 20- 32- 358 30- 43- 303 40- 50- 254 50- 195 64- 179 65- 173 61- 128 56- 107 57- 037 49-			195	12300	64-
	03 4853+	034 034 681	019 12 08 937 05 03 915 10 01- 891 11 06- 844 11 07- 840 ++ 08- 804 ++ 01 742 02 01- 724 04 02- 712 03 06- 692 01 06- 643 02 12- 630 ++ 11- 604 03- 14- 579 ++ 18- 434 21- 30- 402 24- 33- 302 40- 49- 209 60- 190 64- 154 63- 136 58- 121 61- 096 57- 043 56-			190	12500	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	262250	T	320 13	+++ ++	350 16	330 14	300 17	300 21	260 27	260 39	250 46	250 59	260 67	260 50	260 21	260 11	260 02	P110 05			
	270458	P	320 09	+++ ++	350 16	350 14	330 16	290 19	260 25	260 25	220 57	210 63	240 42	260 34	270 17	280 12	280 04				
	271058	T	320 19	+++ ++	340 20	340 20	320 23	310 21	290 21	290 28	280 36	280 33	290 32	280 24	300 20	310 14	150 04				
	271700	P	320 18	+++ ++	320 19	320 21	320 18	320 22	320 27	320 25	330 25	310 36	310 33	310 32	300 21	310 14	310 06				
STORNOWAY 03026	262305	T	020 14	030 15	010 05	290 04	260 14	240 19	250 38	250 50	250 55	250 73	250 78	260 65	270 30	310 12	280 08 340 07				
	270515	P	350 06	+++ ++	350 14	330 14	330 15	280 21	280 31	290 43	290 91	290 117	290 91	290 59	290 29	290 16					
	271100	T	330 14	340 17	340 12	340 15	320 20	320 22	310 32	310 44	300 75	300 86	300 94	300 65	300 29	300 13					
	271700	P	320 22	+++ ++	320 19	320 19	320 18	320 25	310 40	310 52	310 76	310 84	320 101	310 74	310 32	320 20					
SHANWELL 03170	262300	T	080 05	+++ ++	P020 07	P320 09	P290 12	P290 16	P290 24	270 25	270 33	280 37	290 39	290 51	280 24	290 08	P350 06	090 06	080 14		
	270500	P	000 00	+++ ++	300 09	280 20	280 18	280 26	270 35	270 48	280 57	290 72	300 81	290 48	290 32	300 10	330 07	060 08			
	271100	T	340 03	350 08	010 15	340 14	290 17	290 25	290 37	290 57	290 61	300 75	300 75	300 66	300 35	320 07	030 08	060 04	080 13		
	271700	P	000 00	+++ ++	340 03	330 15	330 18	320 27	310 36	300 45	300 60	300 73	310 88	300 58	300 28	320 17	320 12				
ALDERGROVE 03917	262300	T	340 07	+++ ++	050 05	090 01	290 10	290 14	290 17	290 21	270 25	290 33	290 37	290 52	310 20	330 10	100 10	100 10	090 20		
	270500	P	340 06	+++ ++	320 08	280 09	280 15	270 16	290 25	290 30	300 33	310 38	290 44	300 60	300 29	320 10	340 10	060 11			
	271100	T	340 12	+++ ++	350 20	350 18	300 24	300 27	290 34	300 45	300 44	310 55	310 54	310 50	320 27	320 09	060 04	080 09	100 10		
	271700	P	350 14	+++ ++	350 20	350 21	340 20	320 27	320 40	310 57	300 63	310 62	320 70	310 64	320 29	310 20	330 08	060 07	070 15		
AUGHTON 03322	262300	T	090 04	+++ ++	190 01	290 05	310 05	290 09	320 11	350 10	330 16	340 27	340 35	340 39	340 20	010 08	P080 05	110 10	080 15		
	270500	P	090 05	+++ ++	260 07	280 17	280 18	310 14	320 18	310 20	310 31	310 31	310 32	320 45	320 18	320 12	350 06	040 09	090 23		
	271100	T	300 09	+++ ++	330 07	300 12	300 21	300 29	290 30	310 37	310 31	310 39	320 49	320 27	P310 29	330 12	040 04	090 07	080 14		
	271700	P	330 08	+++ ++	340 11	340 09	330 08	300 21	300 38	300 49	300 56	310 57	320 60	320 61	310 26	320 15	340 06	050 12			
HEMSBY 03496	262300	T	360 18	360 25	020 26	030 22	030 22	020 18	010 12	010 13	020 31	010 54	020 48	010 47	340 17	320 06	090 06	080 07	P080 09	070 25	100 29
	270500	P	360 17	+++ ++	350 19	350 20	350 17	340 17	340 18	350 22	360 25	360 28	360 31	360 45	340 13	320 15	030 06	070 11	080 17		
	271100	T	350 15	+++ ++	340 22	320 20	300 19	300 19	320 16	320 24	320 29	310 28	310 31	310 29	330 17	290 03	030 07	080 07	080 16		
	271700	P	350 13	+++ ++	350 17	330 16	320 18	290 27	290 31	290 36	300 44	300 41	320 47	320 55	310 21	310 13	360 07	060 10			
CRAWLEY 03774	262300	T	040 08	+++ ++	050 26	050 28	050 21	040 17	010 13	010 21	030 37	020 55	020 51	010 49	350 18	170 06	120 06	090 09	080 17	P080 17	
	270500	P	030 10	+++ ++	020 19	030 17	040 13	020 11	020 23	010 20	030 30	020 36	020 40	010 50	010 09	330 15	010 07	090 15			
	271040	P	360 05	+++ ++	020 14	360 19	340 16	320 09	350 13	360 20	330 20	350 30	350 28	350 33	340 19	340 07	060 06	100 09	080 21		
	271700	P	330 07	+++ ++	320 05	340 16	330 23	330 21	320 19	320 23	320 26	330 29	350 32	350 37	320 20	320 12	040 04	020 13	070 11		
CAMBORNE 03808	262300	T	050 05	+++ ++	070 11	090 10	030 12	020 15	020 14	020 25	020 24	010 32	360 43	010 43	360 16	040 09	060 07	100 16	090 14	P090 16	
	270500	P	000 00	+++ ++	070 06	060 06	080 08	060 07	010 09	010 19	360 18	360 20	360 32	360 39	360 12	360 07	050 06	080 10	080 17		
	271100	T	330 10	+++ ++	050 03	050 05	360 05	010 05	010 12	350 18	350 17	350 19	340 31	350 33	360 20	010 08	030 06	100 13	080 15		
	271700	P	340 07	+++ ++	320 03	320 05	330 07	340 11	350 16	340 17	340 17	020 20	010 25	010 30	350 19	350 09	040 04	020 08	080 18	080 22	
VALENTIA 03953	270000	T	000 00	060 05	+++ ++	030 07	+++ ++	320 04	+++ ++	320 19	290 16	310 24	+++ ++	300 31	+++ ++	350 03					
	271200	T	040 08	040 08	+++ ++	020 11	+++ ++	360 13	+++ ++	320 18	330 19	320 27	+++ ++	320 40	+++ ++	350 12					
Ocean Weather Station 'I' 59°00'N 19°00'W	262300	T	270 12	250 21	270 16	280 15	280 21	280 23	280 32	280 57	290 78	290 99	300 105	300 86	290 51	290 18	290 07	110 04	110 06		
	270500	T	270 10	+++ ++	260 18	250 18	260 17	290 30	290 37	280 33	280 42	280 84	290 91	280 108	290 42	280 12	000 00				
	271400	T	280 04	260 10	270 16	170 16	290 16	290 30	290 39	290 59	290 88	290 69	290 76	290 48	300 36	300 14					
	271700	P	270 10	+++ ++	260 09	270 12	280 17	290 26	290 30	300 51	290 61	290 64	290 66	290 69	290 61	190 60					
Ocean Weather Station 'J' 52°30'N 20°00'W	262300	T	130 15	140 23	140 16	130 05	120 09	140 09	230 19	250 14	220 19	220 24	250 32	240 26	230 17	310 10	040 05	080 07			
	270500	P	135 10	+++ ++	120 12	110 06	120 05	130 08	190 11	220 10	230 19	220 18	250 21	260 18	290 12	290 05	330 02				
	271100	T	120 12	120 12	120 15	140 11	130 09	140 08	190 09	190 12	230 09	240 08	240 07	270 05	300 06	030 05	030 03	040 02			
	271700	P	090 10	+++ ++	130 20	130 20	130 15	130 08	170 07	180 06	180 10	160 05	190 10	190 11	200 03	290 03					
LARKHILL 03743	270630	P	030 04	+++ ++	020 18	010 15	010 12	010 06	010 15	360 22	350 20	350 25	360 29	350 46	360 15	340 13	030 08	050 13			
	271030	P	030 04	+++ ++	010 12	360 15	330 12	320 09	350 15	350 18	330 21	340 27	350 17	340 36	330 13	020 12	060 06	090 10	070 12		

## 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
271043	56.6N 04.7N	022	015	++	061	10 05	183	08 08	1052 08 13-	1521 07 18-	2018 05 35-	03 30-	3536 03 33-					
Cloud :— 6/8 Sc. 1880 to 3700ft., 5/8 Ac. 14000ft. to TNR.																		
Inversion Levels :— 925 to 875mb 7½°C. to 8½°C. Isothermal Levels :— 975 to 925mb 7½°C. 750 to 700mb 2½°C.																		
YYGGgg	POSITION	PRESSURE			SURFACE		1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb	
		MSL	Surf.	0°C level	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C	m	°C °C
Cloud :—																		
Inversion Levels :— Isothermal Levels :—																		
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	P22200m 080 05 02650/5 05730/6 10070/4 11690/1 19200m 360 12	250 72 09900m 210 72 08840m
STORNOWAY 03026	184mb 260 36 119mb 270 21 080mb 340 03 21700m 010 11 02690/5 06050/0 06940/0 07480/0 10510/1 11990/1 19930/9 448mb 300 70 174mb 310 35 080mb 020 09 20300m 230 07 05540/0 05930/0 11560/1 11990/1 12580/1	260 87 11000m 290 120 09350m 300 96 10150m 320 102 10220m
SHANWELL 03170	148mb 290 34 P25100m 070 11 02750/2 11670m 290 62 20100m 040 12 21300m 080 05 10040/0 11670/1 P25400m 070 25 25400/0 05400/0 10100/0 11680/1 12200/1 14000/1	300 84 13000m 310 81 11620m 310 90 10360m
ALDERGROVE 03917	21900m 060 14 10600/0 11120/0 12690/1 14450/1 085mb 010 09 13140m 320 46 25570m 120 22 13140/1 19300/3	290 67 11350m 310 61 09820m 320 72 10800m
AUGHTON 03322	174mb 340 50 163mb 340 33 12620/1 13620/1 P25200m 070 21 13500m 310 32 21900m 040 10 02880/0 13040/1	320 65 11040m
HEMSBY 03496	450mb 360 24 175mb 010 35 P28800m 080 30 12660m 360 25 16850m 360 05 11230/0 12160/1 174mb 310 29 13000m 310 32 23200m 090 12 12420/1	
CRAWLEY 03774	P27300m 070 25 13200m 010 25 12200/1 11370/0 13860/1 18240/2 25800m 110 15 12160/1 16990/4	
CAMBORNE 03808	P27300m 090 24 26100m 080 18 12660/1 P24900m 080 21 27300m 090 17	
VALENTIA 03953	885mb 050 08 730mb 330 05 133mb 330 13 056mb 110 12 914mb 040 09 616mb 330 16 160mb 310 30 046mb 090 15	
Ocean Weather Station 'I' 59°00'N 19°00'W	176mb 290 43 126mb 290 31 075mb 290 12 035mb 110 06 08100m 280 56 12900m 290 60 08750/0 12600/1 449mb 290 70 576mb 300 06 16500m 290 50	300 106 10300m 290 111 12830m 290 90 07440m 290 75 10690m
Ocean Weather Station 'J' 52°30'N 20°00'W	660mb 190 12 041mb 100 20 19500m 030 06 16800m 300 04	
LARKHILL 03743	22860m 090 13 12910/1	

## NOTES ON THE AEROLOGICAL SITUATION

The low over Labrador has moved southeastward and deepened as the ridge over the western Atlantic built and moved northeastward. The slow-moving low north of the Azores is filling and anticyclogenesis has taken place southwest of Ireland. The low over northern Italy is moving eastward and degenerating. The low over the Baltic has moved westward.

AVERAGE AND EXTREME VALUES 1951-55  
JUNE

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22345	-48.1	-42	-55	...	...
60	19675	-48.1	-41	-55	120	3
100	16320	-48.8	-41	-56	244	5
150	13660	-48.3	-41	-59	263	10
200	11770	-49.8	-39	-67	271	16
300	9125	-46.7	-37	-56	271	22
400	7160	-32.6	-23	-44	271	18
500	5555	-20.8	-11	-31	269	14
700	2985	-5.2	3	-14	266	9
850	1435	2.8	14	-7	269	6

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	257	-54.7	10190
Max.	405	-40	12955
Min.	172	-68	6890

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22310	-49.6	-47	-57	106	9
60	19675	-51.4	-45	-59	136	3
100	16370	-52.6	-46	-61	251	8
150	13745	-51.8	-42	-65	265	15
200	11890	-54.0	-40	-65	268	20
300	9265	-44.7	-36	-54	265	20
400	7275	-29.6	-19	-41	265	17
500	5640	-17.8	-9	-28	263	15
700	3050	-2.1	7	-10	263	11
850	1480	5.7	16	-3	264	7

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	234	-56.8	10950
Max.	388	-41	13440
Min.	160	-66	7225

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 <sub>R</sub>	Wind* V <sub>S</sub>
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5
60	19670	-60.7	-53	-69	135	4
100	16510	-62.9	-57	-71	255	21
150	13995	-59.0	-51	-67	265	38
200	12185	-56.6	-47	-67	275	42
300	9530	-40.1	-33	-46	285	32
400	7500	-23.9	-19	-29	285	27
500	5835	-11.8	-8	-17	285	24
700	3165	7.2	13	-1	290	18
850	1535	17.9	27	8	290	9

Tropo- pause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	123	-65.7	...	73	...	-73
Lower	193	-59.8	266	...	-46	...

\* V<sub>R</sub> = Vector average wind. V<sub>S</sub> = 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.

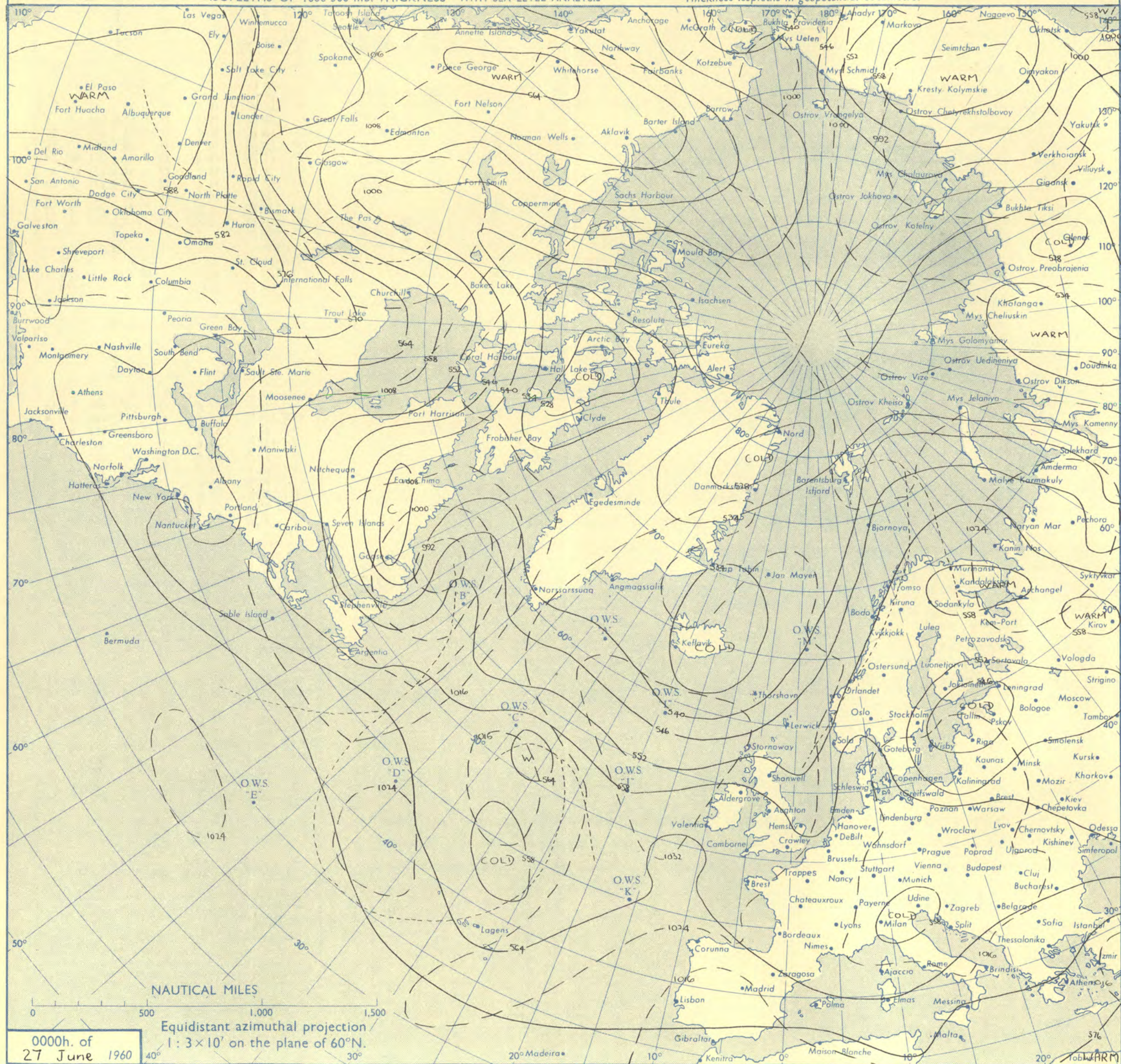
† Observations were made at Larkhill (Lat. 51° 12' N.,  
Long. 01° 48' W.) up to 28th April, 1953.

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.



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

Thickness isopleths in geopotential decametres

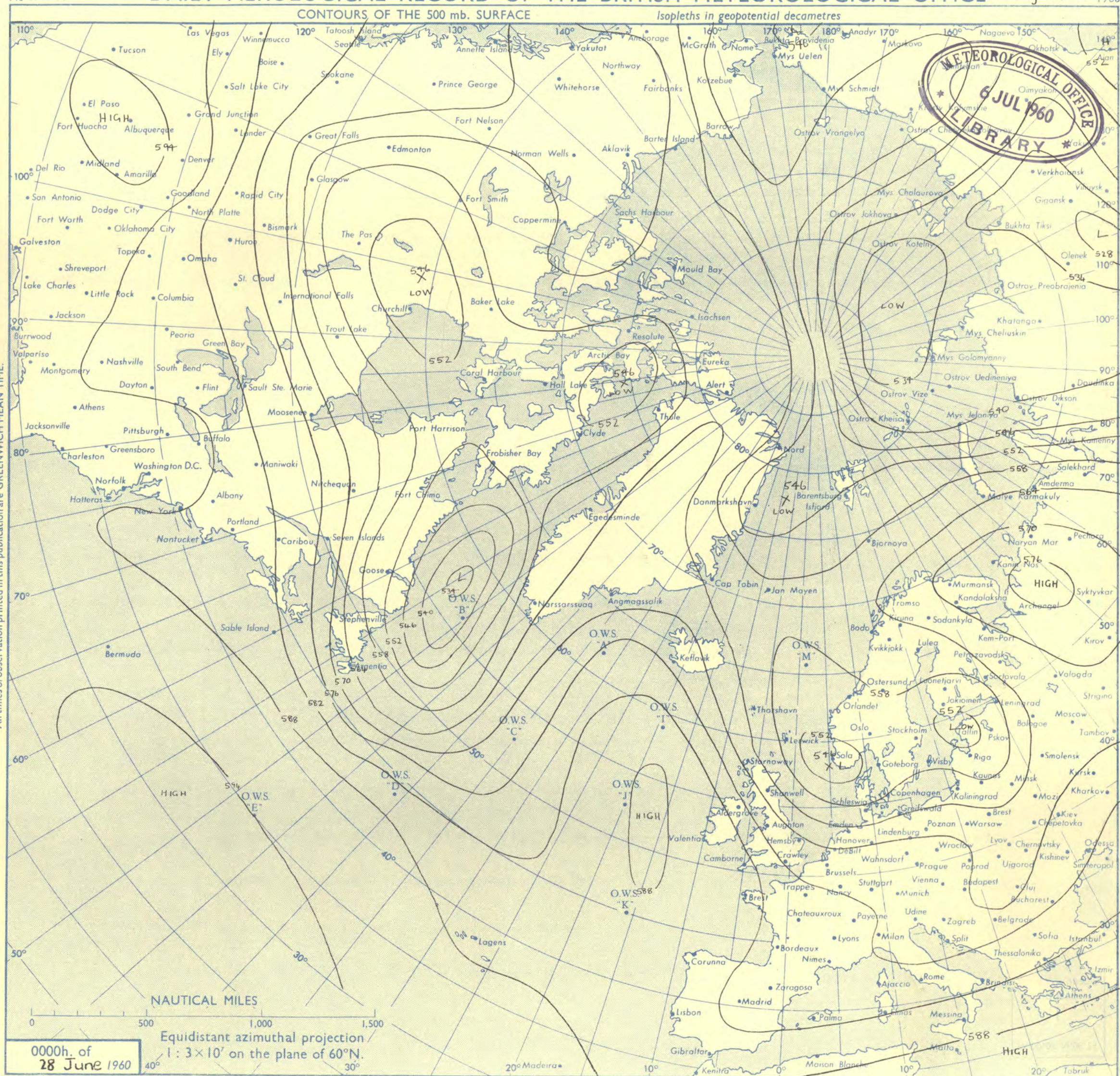
0000h. of  
27 June 1960Equidistant azimuthal projection  
1:3x10<sup>7</sup> on the plane of 60°N.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



NAUTICAL MILES

Equidistant azimuthal projection  
1 : 3 × 10<sup>7</sup> on the plane of 60°N.

0000h. of  
28 June 1960







STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE																												TROPOPAUSE			
		MSL	Surf.	0°C level																											mb	m	°C
LERWICK 03005	80 48432	023	013	863	832 01- 03- 764 ++ 11- 748 ++ 10- 695 11- 21- 613 ++ 28- 465 ++ 36- 400 40- 43- 379 43- 276 41- 100 49- 032 48-																										379	07470	43-
	25 784++	021	011	902	006 07 02 944 02 01- 826 04- 07- 811 03- 09- 792 ++ 13- 717 08- 29- 670 ++ 34- 507 20- 33- 355 40- 50- 256 53- 243 48- 216 45- 169 48- 100 47- 083 49- 039 49-																										256	10180	53-
STORNOWAY 03026	25 42430	031	030	848	005 11 08 936 05 03 698 09- 15- 673 08- 14- 633 12- 18- 503 23- 33- 451 26- 37- 431 24- 35- 310 40- 50- 295 43- 220 49- 188 47- 135 50- 121 48- 050 50- 030 48-																										220	11350	49-
	02 725++	031	029	836	999 ++ 06 958 06 04 878 01 00 852 01 05- 845 ++ 08- 801 02- 12- 743 ++ 21- 674 07- 25- 501 21- 41- 485 20- 40- 413 27- 46- 335 39- 50- 262 49- 223 53- 217 51- 162 50- 149 52- 111 48- 093 51- 083 49-																										223	11230	53-
SHANWELL 03170	01 25500	029	028	831	024 ++ 05 019 13 07 920 ++ 03 850 ++ 04- 767 ++ 08- 728 08- 13- 660 ++ 20- 588 15- 26- 528 15- 26- 484 23- 40- 456 22- 41- 429 24- 41- 341 38- 49- 245 50- 211 51- 203 47- 158 47- 123 51- 112 49- 058 49-																										245	10600	50-
	03 62501	025	024	854	011 12 01 856 00 05- 737 07- 17- 677 12- 22- 591 16- 29- 397 37- 48- 294 45- 243 44- 122 52- 118 48- 088 51- 030 48-																										294	09270	45-
ALDERGROVE 03917	01 58401	031	022	790	986 ++ 07 950 06 04 930 06 01 904 ++ 01- 887 04 03- 858 05 07- 786 ++ 09- 780 01- 11- 763 ++ 16- 697 02- 21- 661 02- 26- 613 ++ 28- 530 14- 22- 515 ++ 22- 459 19- 27- 305 38- 45- 263 47- 203 60- 178 62- 143 53- 084 53- 030 48-																										178	12810	62-
	03 58501	029	019	831	997 11 04 940 06 01 875 ++ 02- 857 01 04- 847 01 05- 772 04- 11- 708 06- 19- 671 08- 22- 610 09- 25- 542 14- 31- 521 14- 32- 499 17- 35- 359 32- 47- 336 34- 48- 295 ++ 50- 211 56- 170 58- 107 53- 086 57- 081 50- 074 54- 040 52- 030 54-																										211	11690	56-
AUGHTON 03322	02 855++	028	021	773	015 13 06 007 13 06 972 ++ 04 948 ++ 07 900 07 05 874 ++ 02 802 ++ 01- 755 01- 07- 729 03- 15- 710 02- 19- 682 04- 26- 662 ++ 29- 623 05- 33- 522 ++ 41- 517 16- 39- 478 16- 32- 440 20- 29- 296 40- 46- 203 60- 183 61- 150 54- 136 55-																										203	11960	60-
	02 425++	025	018	824	987 11 05 871 03 00 847 02 04- 835 01 06- 785 ++ 06- 765 05- 10- 729 06- 15- 690 08- 18- 673 08- 24- 650 08- 25- 555 16- 36- 535 17- 38- 460 25- 44- 443 24- 43- 336 37- 50- 305 40- 50- 243 49- 144 52- 126 47- 104 52- 094 50- 030 50-																										243	10650	49-
HEMSBY 03496	60 6541+	026	025	793	020 ++ 09 955 ++ 05 924 05 01 899 ++ 01 855 04 02 740 ++ 04- 710 ++ 08- 660 10- 11- 648 11- 14- 639 06- 15- 628 ++ 23- 588 ++ 33- 555 11- 40- 494 19- 36- 447 19- 32- 308 40- 50- 252 52- 192 62- 159 55- 092 56- 030 53-																										192	12220	62-
	25 624++	022	020	838	922 05 03 908 04 03 745 ++ 10- 722 08- 15- 486 26- 42- 406 36- 49- 287 40- 50- 258 40- 50- 157 45- 143 48- 098 50- 066 52- 057 50- 035 50-																										406	07030m	36-
CRAWLEY 03774	21 873++	026	009	726	000 14 13 941 11 10 912 10 09 894 ++ 07 858 ++ 03 823 04 03 748 01 00 608 09- 11- 596 08- 13- 580 ++ 26- 529 13- 39- 505 12- 38- 361 31- 49- 300 ++ 50- 284 43- 209 60- 177 65- 158 56- 094 56- 030 52-																										177	12820	65-
	02 52500	023	006	809	000 14 05 922 ++ 03 903 ++ 01- 894 ++ 01 874 04 03- 854 04 04- 815 ++ 03- 734 ++ 08- 727 07- 12- 716 06- 14- 710 ++ 16- 637 10- 28- 619 09- 29- 549 12- 37- 395 29- 48- 326 36- 49- 243 53- 185 55- 164 52- 150 55- 142 51- 100 52- 047 52- 040 49-																										243	10710	53-
CAMBORNE 03808	02 14702	028	017	647	962 12 08 948 12 04 935 13 03 909 ++ 08 873 ++ 07 867 11 06 852 12 02 790 08 14- 712 ++ 25- 688 ++ 09- 616 02- 11- 557 08- 17- 427 19- 34- 349 30- 44- 297 40- 50- 184 66- 171 66- 150 58- 108 58- 032 52-																										184	12700	66-
	02 354++	026	015	682	995 11 09 973 10 08 931 10 06 878 08 01- 835 05 06- 824 06 06- 795 06 08- 769 06 07- 663 02- 12- 625 ++ 09- 546 11- 15- 496 15- 20- 431 23- 27- 340 32- 38- 295 40- 46- 233 54- 182 66- 147 59- 137 60- 095 55- 057 53-																										182	12680	66-
VALENTIA 03953	02 11500	031	030	647	962 10 07 894 08 05 838 09 02- 792 09 15- 760 09 16- 661 01 27- 302 38- 48- 190 63- 158 63- 128 58- 097 58- 075 54- 062 54- 044 50-																										190	12500	63-
	03 21501	031	029	686	998 12 07 895 04 07 820 08 13- 792 08 15- 686 00 06- 582 06- 12- 492 16- 23- 433 21- 32- 256 48- 241 52- 175 66- 161 64- 144 65- 138 61- 123 61- 112 57- 101 59- 048 55-																										175	13000	66-
Ocean Weather Station 'I' 59°00'N 19°00'W	25 38531	037	037	700	982 09 09 971 ++ 08 936 ++ 05 901 ++ 04 897 04 03 879 06 02- 865 05 05- 847 05 05- 829 ++ 05- 803 04 14- 785 04 18- 758 03- 16- 717 ++ 09- 675 02- 13- 610 06- 07- 556 10- 11- 458 ++ 21- 422 ++ 26- 330 36- 40- 205 57- 198 57- 175 60- 170 59- 160 60- 151 56- 125 56- 095 51- 080 52-																										175	13000	60-
	02 5853+	036	036	728	972 ++ 06 951 07 06 886 05 04 852 06 05 821 04 03 793 05 05 769 03 02 731 00 00 633 05- 07- 594 ++ 12- 583 10- 14- 569 09- 14- 519 ++ 18- 476 16- 27- 424 22- 32- 283 44- 229 53- 202 57- 188 57- 161 60- 142 61- 130 55- 110 56- 096 52- 044 50-																										161	13500	60-
Ocean Weather Station 'J' 52°30'N 20°00'W	01 25500	033	033	661	967 09 07 943 12 01- 919 12 10- 840 ++ 18- 772 07 07- 746 ++ 02- 628 02- 09- 621 ++ 14- 470 ++ 25- 365 29- 40- 305 40- 50- 201 63- 187 64- 168 58- 162 58-																										187	12600	64-
	01 65500	032	032	690	022 12 08 936 06 04 922 09 04 905 ++ 00 878 09- 01- 854 ++ 04 809 ++ 02 880 ++ 01- 776 06 05- 760 ++ 04- 731 03 11- 676 01- 14- 671 ++ 10- 617 04- 12- 597 04- 15- 487 16- 22- 463 17- 24- 294 40- 48- 205 58- 180 62- 164 57- 118 53- 091 54- 058 52-																										180	12900	62-



## UPPER WINDS AT STANDARD LEVELS

28 June

1960

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	272310	T	310 20	+++ ++	320 33	330 34	330 39	330 34	340 31	340 37	340 37	340 29	340 30	330 21	320 21	360 12	030 08	050 14			
	280500	P	330 25	+++ ++	350 39	360 37	010 39	360 40	360 41	010 39	030 25	040 24	350 33	350 32	360 20	350 17	360 12	070 15			
	281102	P	340 35	+++ ++	360 42	010 36	010 37	260 40	010 40	360 24	360 18	050 06	360 35	350 28	350 23	350 12	030 10				
	281700	P	350 36	+++ ++	350 39	350 44	350 44	350 33	350 32	340 28	330 20	330 21	340 42	340 36	350 22	010 15	010 16	050 09			
STORNOWAY 03026	272305	T	340 10	330 21	320 21	320 26	330 26	330 29	320 42	320 52	310 84	320 95	320103	320 70	310 46	320 23	350 12	040 04			
	280500	P	350 18	+++ ++	350 25	350 24	360 24	360 27	360 36	350 58	330 95	340102	340 97	340 70	340 37	340 23					
	281110	T	350 19	350 22	360 22	360 23	360 34	350 37	350 42	350 52	350 79	340105	350102	340 71	360 34	010 12					
	281712	P	350 16	+++ ++	350 20	350 25	350 30	340 36	340 43	340 52	340 62	330 84	340 92	340 74	350 39	360 20					
SHANWELL 03170	272300	T	290 03	300 12	320 15	310 27	320 29	330 30	320 45	320 57	310 81	310 95	310 91	310 70	320 24	320 18	020 12	P080 04	070 21	080 27	
	280500	P	300 07	+++ ++	330 07	340 30	340 33	340 35	340 37	330 42	330 89	330105	320 78	330 45	330 31	350 16	010 12	050 15			
	281100	T	340 15	350 30	340 36	360 34	350 33	350 33	350 45	360 50	360 54	350 85	350 77	340 58	350 32	010 09	060 10	020 17	080 21	P050 19	
	281700	P	360 18	+++ ++	340 33	340 42	350 41	360 34	350 40	350 45	360 79	360 96	350102	350 68	340 36	010 24	020 11	040 08	080 21		
ALDERGROVE 03917	272300	T	010 05	+++ ++	350 25	340 19	330 29	330 40	320 46	320 65	310 78	320 74	320 74	320 67	310 40	320 16	020 10	060 14	060 16	P060 22	
	280500	P	010 10	+++ ++	360 28	360 31	350 30	340 35	320 56	320 65	330 81	320 82	330 97	320 86	330 48	330 25	330 10	040 10	050 10		
	281100	T	350 14	+++ ++	350 26	350 28	360 24	360 32	350 45	340 67	340 78	340 93	320 94	330 96	340 59	320 25	050 15	100 06			
	281700	P	350 16	+++ ++	340 22	350 24	360 26	360 25	350 33	350 59	350 58	340 75	340 86	340 81	350 34	340 24	360 09	060 11			
AUGHTON 03322	272300	T	000 00	+++ ++	010 10	350 15	320 23	320 31	320 43	320 46	310 71	310 65	320 69	320 69	320 33						
	280500	P	000 00	+++ ++	280 08	320 13	330 19	320 29	320 47	320 63	320 72	320 99	310 90	310 87	320 34	330 21	360 13	040 07	090 15		
	281100	T	310 14	+++ ++	340 16	350 13	340 27	340 32	350 40	340 64	330 89	330113	330103	330 70	330 48	340 16	030 06	060 15	060 16		
	281700	P	320 20	+++ ++	340 23	350 19	360 19	350 30	350 39	340 49	350 80	350109	350114	340 75	340 39	350 18	360 12	060 15	080 21		
HEMSBY 03496	272300	T	360 10	010 15	360 17	340 20	310 28	300 26	300 42	300 43	310 54	300 57	310 68	310 63	310 28	330 08	320 10	080 07	070 13		
	280500	P	270 04	+++ ++	350 19	330 23	330 23	310 27	310 35	300 55	300 66	310 75	300 80	300 67	310 34	300 20	360 13	050 09	090 17	080 17	
	281100	T	330 18	+++ ++	310 26	310 26	320 32	310 37	320 38	320 43	310 52	310 80	310 63	310 48	310 33	340 15	010 08	070 10	P060 17	080 24	
	281700	P	340 22	+++ ++	330 32	330 38	330 37	330 38	330 42	340 46	360 55	350 54	340 53	330 47	330 25	330 15	350 11	040 10	090 13	060 19	
CRAWLEY 03774	272304	T	030 03	+++ ++	010 06	340 14	300 15	280 20	310 36	310 39	310 47	310 39	320 36	330 52	320 24	330 15	340 07	080 05	080 25		
	280500	P	020 06	+++ ++	030 10	320 11	310 13	300 20	320 42	310 49	310 62	310 61	310 65	310 67	310 30	320 21					
	281100	T	060 05	+++ ++	350 06	350 10	320 15	320 28	310 43	310 59	320 72	310 97	310 97	310 83	310 37	310 13	040 10	060 12			
	281700	P	340 08	+++ ++	360 14	360 24	340 25	330 22	340 37	340 46	330 72	320 94	320 86	320 67	330 37	310 19	350 10				
CAMBORNE 03808	272300	T	010 12	+++ ++	340 16	320 12	330 12	340 15	340 25	320 20	340 30	330 24	350 24	360 29	350 24	340 10	030 05	060 15			
	280500	P	010 10	+++ ++	020 13	010 17	360 18	340 21	330 28	330 31	320 32	330 39	330 36	340 32	340 17	320 15	020 12	050 11	080 17		
	281100	T	350 15	+++ ++	020 17	020 15	340 26	330 30	330 44	330 46	330 46	310 51	310 47	330 48	340 29	320 13	340 07	P100 10	070 21		
	281700	P	360 13	+++ ++	020 25	020 23	010 24	330 29	330 44	330 45	330 48	340 45	320 51	330 54	330 33	340 21	350 08	050 09			
VALENTIA 03953	272330	T	070 08	060 15	+++ ++	010 10	+++ ++	350 15	+++ ++	340 18	320 27	310 17	+++ ++	350 14	+++ ++	340 15					
	281130	T	010 10	030 11	+++ ++	020 20	+++ ++	350 25	+++ ++	330 30	340 39	340 29	+++ ++	340 22	+++ ++	350 12					
Ocean Weather Station 'I' 59°00'N 19°00'W	272300	T	340 03	310 06	280 09	270 11	310 19	310 20	310 27	300 38	300 46	300 54	290 60	300 54	300 32	320 10	330 03				
	280500	P	000 00	+++ ++	060 05	300 08	290 15	300 22	310 20	310 25	300 37	300 46	300 43	290 45	300 21						
	281100	T	150 08	180 07	230 05	310 08	330 20	340 18	320 17	310 24	300 36	300 35	300 37	280 34	240 19	300 06	300 02	000 00			
	281700	P	225 10	+++ ++	230 10	270 09	290 10	300 15	310 12	310 13	290 27	270 33	270 29	270 47	260 20	270 09	090 03				
Ocean Weather Station 'J' 52°30'N 20°00'W	272300	T	110 15	120 20	120 21	130 16	170 10	150 07	140 08	170 10	180 13	160 12	150 13	150 14	P000 00	000 00	000 00	080 15	080 15	090 22	
	280500	P	090 20	+++ ++	120 21	140 17	150 17	150 17	140 06	150 06	160 14	160 15	150 19	160 19	160 06	020 05					
	281100	T	110 15	120 20	120 22	120 18	100 13	100 11	120 13	130 08	160 15	150 14	170 25	150 21	150 12	030 03	040 03				
	281700	P	135 20	+++ ++	120 22	120 22	120 20	120 14	130 13	150 12	150 13	170 24	160 21	160 23	170 11	240 12					
LARKHILL 03743	280630	P	030 07	+++ ++	030 10	010 12	340 14	310 30	310 39	320 52	320 57	310 72	320 73	310 79	320 33	320 17	020 09	050 12	070 16		
	281130	P	010 07	+++ ++	010 06	360 12	340 16	320 31	320 46	320 63	330 75	310 87	320 87	320 78	310 37	310 23	340 10	080 10			

## 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
281130	62.3°N 18.5°W	034 026 766	061 08 08	277	05 05	1137 05 05	1603 04 12	2091 02 21	01- 41-	3158 02- 16-	07- 15-	4362 11- 13-	14- 18-	5742 18- 24-
Cloud :— 8/8 Sc. 1800 to 2400 ft. 1/8 Ac. 10000 to 14000 ft. 4/8 Ac. at 13000 ft. 2/8 Cs. at 20000 ft. Inversion Levels :— 950 to 900mb 4½°C to 5½°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
281258	64.6°N 11.0°W	031 023 880	061 05 05	244	05 01-	1100 01 03-	1558 01 06-	2039 04- 09-	07- 20-	3078 09- 18-	12- 26-	4258 15- 37-	20- 44-	5608 25- 50-
Cloud :— 7/8 Sc. 500 to 1600 ft. 1/8 Sc. at 5000 ft. Inversion Levels :— 976 to 950mb 34°C. to 4½°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	035mo 080 15 06740/2 09120/3 13220/1 20400m 050 08 08160/4 10300/6 14050/1 22200m 060 05	
STORNOWAY 03026	455mb 320 70 035mb 010 06 17400m 340 10 04440/0 12170/1 13420/1 177mb 350 45 088mb 020 11 12920m 340 54 18000m 350 16 05200/0 12920/1	320 107 10260m 340 107 09400m 340 106 09760m 340 96 10770m
SHANWELL 03170	173mb 310 48 P27400m 080 27 06240m 330 53 20160m 040 11 23100m 080 15 06680/0 07130/0 09470/1 11550/1 19530/2 125mb 330 31 P27400m 060 27 06680/0 11350/1 11880/1 12750/1	310 96 09290m 320 111 08800m 350 87 08700m 350 111 09660m
ALDERGROVE 03917	P27300m 070 36 24900m 060 03 12170/1 12720/1 14530/1 18670/2 P23700m 070 13 13370m 350 48 04630/0 12870/1 13370/1	310 80 07800m 330 100 10330m 330 104 11630m 340 87 10520m
AUGHTON 03322	170mb 310 52 12900m 310 65 25800m 090 19 04320/0 12390/1 13660/1 P24600m 090 16 06560/0 08470/0 09890/0 10290/1 10810/1 12000/1 14210/1	300 77 07720m 320 104 08750m 330 118 09180m 350 123 10090m
HEMSBY 03496	169mb 300 43 P25500m 070 23 13150m 310 44 28800m 070 29 04510/0 12100/1 12550/1 P27500m 100 21 14650m 320 24	310 73 10950m 300 81 10370m 310 82 09300m 360 69 08450m
CRAWLEY 03774	222mb 330 47 174mb 330 39 18000m 020 09 03500/0 13090/1 184mb 320 60 125mb 320 27 06300m 340 49 07380/0 12850/1 14700/1	300 70 11460m 310 100 11670m 320 98 09150m
CAMBORNE 03808	035mb 080 10 831mb 360 16 P26100m 060 18 02700m 350 25 23100m 080 10 13150/1	
VALENTIA 03953	838mb 360 10 760mb 350 17 158mb 350 21 044mb 060 12 582mb 330 32 256mb 330 24 144mb 350 22 048mb 040 06	
Ocean Weather Station 'I' 59°00'N 19°00'W	130mb 300 21 075mb 330 03 055mb 330 02 13500m 300 33 15000m 300 16 075mb 300 02 12900m 260 34 20400m 090 06 14450/4 17750/8	290 61 10350m
Ocean Weather Station 'J' 52°30'N 20°00'W	P12300m 150 14 27900m 090 26 17700m 350 03 060mb 050 03 16800m 270 09	
LARKHILL 03743	25600m 070 22 12860/1 16340/2 02390/6 13260/1	310 87 11450m 310 93 08960m

## NOTES ON THE AEROLOGICAL SITUATION

The low over the Davis Strait is now moving very slowly and the ridge over the north Atlantic is swinging slowly around the high to the west of Ireland.

Cyclogenesis has taken place north of Scotland and the new low is now moving slowly southeastward just south of Norway and still deepening. The low over the Baltic is drifting slowly northward.

The old low which yesterday was over northern Italy has degenerated to a weak trough over the Balkans.

AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
<b>LERWICK</b> (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	41
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
<b>LARKHILL/CRAWLEY†</b> 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 <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
<b>MALTA</b> (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		123	-65.7	...	73	...	-73
		193	-59.8	266	...	-46	...
* V <sub>R</sub> = Vector average wind. V <sub>S</sub> = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.							
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.							
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.							



Thickness isopleths in geopotential decametres

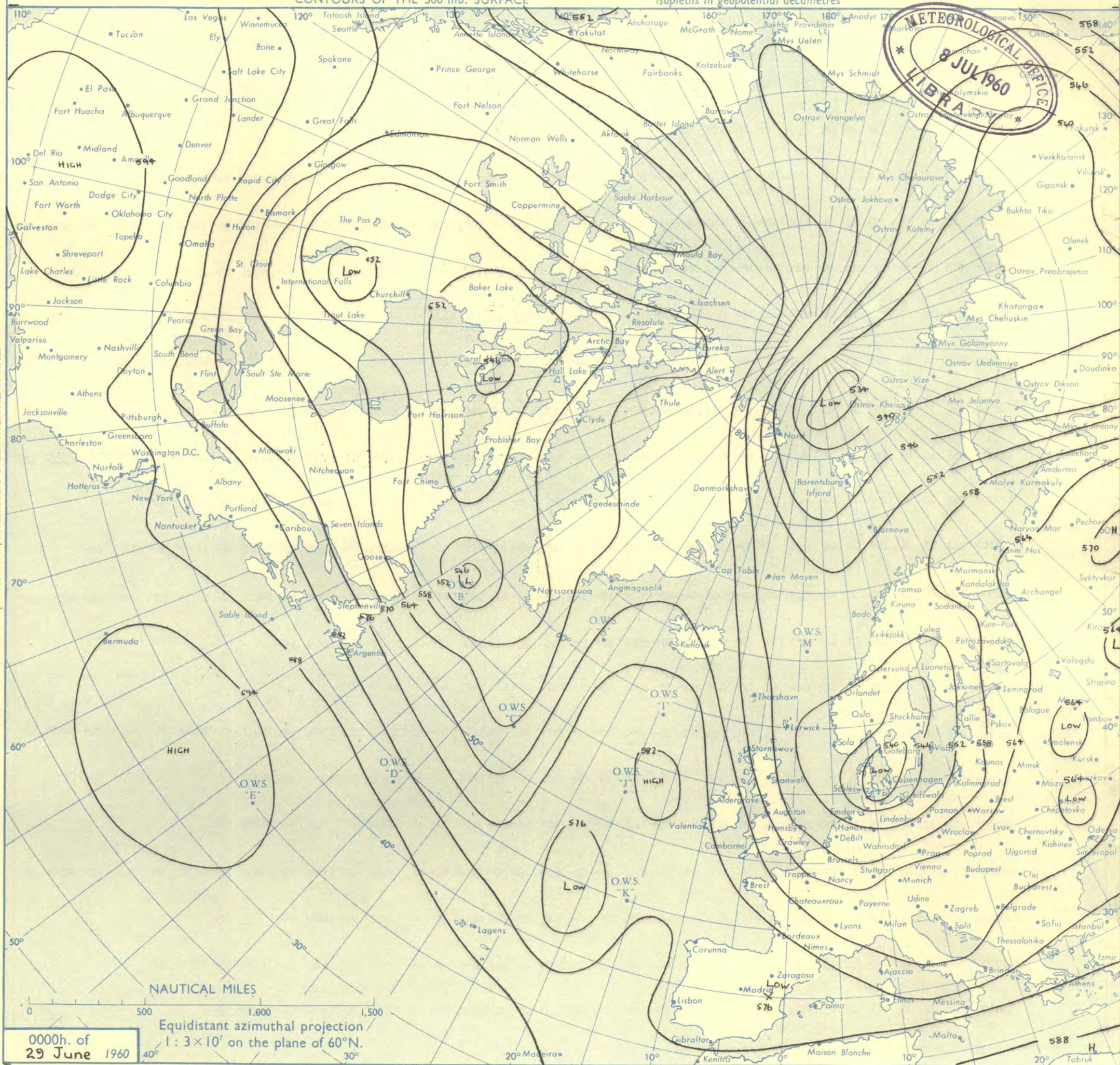




CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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





STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb		150mb		100mb		70mb		50mb		30mb	
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C		
LERWICK 03005	282245	082	08	03	157	07	02	1471	02-	05-	3003	07-	22-	5548	23-	42-	7147	34-	49-	9112	43-	++	11831	45-	13743	47-	16422	47-	18778	47-	21009	47-	24417	44-
	291100	082	09	05	147	07	03	1457	02-	06-	2993	07-	40-	5534	23-	46-	7138	34-	49-	9101	46-	++	11797	46-	13708	46-	16388	47-						
STORNOWAY 03026	282322	013	10	08	230	08	04	1546	03-	07-	3075	06-	24-	5643	18-	40-	7273	29-	42-	9269	43-	++	11921	55-	13773	52-								
	291117	013	13	04	213	10	03	1536	00	05-	3079	04-	18-	5661	18-	24-	7291	30-	37-	9283	44-	++	11920	52-	13783	52-	16429	51-	18761	49-				
SHANWELL 03170	282300	005	10	03	190	09	++	1510	02-	++	3034	06-	++	5591	20-	++	7217	29-	++	9217	42-	++	11900	50-	13780	52-	16427	50-	18752	50-	20959	48-	24323	48-
	291100	005	13	04	178	10	01	1504	01-	06-	3042	05-	26-	5623	17-	39-	7253	31-	46-	9238	44-	++	11895	51-	13750	53-	16395	50-	18718	51-	20911	49-	24254	51-
ALDERGROVE 03917	282300	077	10	07	214	10	08	1550	04	07-	3101	03-	18-	5708	16-	24-	7350	26-	34-	9377	41-	++	12044	55-	13878	55-	16480	52-	18795	51-	20997	49-	24350	49-
	291100	077	14	04	205	10	02	1528	00	03-	3068	04-	19-	5676	15-	26-	7328	26-	38-	9343	41-	++	11991	57-	13817	56-	16418	52-	18724	51-	20906	52-	24233	50-
AUGHTON 03322	282300	056	11	03	190	12	03	1526	01	03-	3061	06-	20-	5638	18-	29-	7272	29-	39-	9265	43-	++	11890	57-	13719	53-	16222	53-	18616	53-				
	291100	056	14	03	179	11	01	1503	02-	03-	3044	05-	27-	5628	16-	39-	7267	28-	43-	9267	43-	++	11913	53-	13753	54-	16373	51-	18682	52-	20870	49-	24246	47-
HEMSBY 03496	282300	012	12	05	150	10	04	1473	01-	02-	3005	08-	15-	5577	20-	27-	7192	32-	40-	9163	45-	++	11837	47-	13738	50-	16383	51-	18707	51-				
	291100	012	13	06	139	10	04	1459	02-	04-	2980	09-	18-	5529	21-	29-	7137	34-	42-	9093	48-	++	11755	49-	13635	50-	16261	52-	18569	52-	20767	49-		
CRAWLEY 03774	282300	144	09	07	178	10	08	1515	02	02-	3047	06-	17-	5629	18-	31-	7259	29-	41-	9268	41-	++	11948	52-	13803	53-	16412	52-	18712	53-	20882	52-	24194	52-
	291132	144	15	03	166	14	03	1499	00	05-	3035	05-	17-	5591	21-	35-	7222	26-	41-	9242	41-	++	11917	54-	13769	55-								
CAMBORNE 03808	282300	088	12	08	197	12	07-	1542	05	07-	3110	01-	23-	5742	13-	34-	7398	25-	41-	9427	40-	50-	12092	58-										
	291115	088	16	10	185	14	09	1523	05	06-	3091	01-	21-	5721	13-	30-	7383	24-	40-	9413	40-	50-	12062	55-	13874	58-	16453	54-	18758	51-	20948	50-	24319	47-
VALENTIA 03953	290001	014	12	09	234	11	07	1569	05	02-	3149	01	19-	5780	14-	26-	7430	26-	37-	9450	42-	++	12080	60-	+++++	++	16400	57-						
	291237	014	17	07	213	14	05	1556	04	12-	3127	01	15-	5750	16-	18-	7400	25-	38-	9430	41-	++	12070	60-	+++++	++	16380	59-						
Ocean Weather Station 'I'  59°00'N 19°00'W	282300		13	11	274	10	08	1613	06	04	3181	04-	07-	5790	16-	27-	7440	26-	36-	9460	42-	++	12080	61-	13880	55-	16490	52-	18810	50-	21020	49-	24380	48-
	291100		13	11	242	11	10	1580	06	06	3154	02-	05-	5760	15-	16-	7440	27-	30-	9410	42-	++	12050	59-	13860	54-								
Ocean Weather Station 'J'  52°30'N 20°00'W	282300		14	11	239	12	09	1578	08	10-	3167	02	11-	5810	13-	21-	7470	26-	31-	9490	41-	++	12120	59-	13940	56-	16530	53-	18830	53-				
	291100		15	11	217	12	09	1553	02	05-	3132	01	13-	5770	13-	24-	7420	27-	34-	9430	43-	++	12050	59-	13870	54-	16470	53-						



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 354++	019 009 891	941 03 00 909 ++ 01- 855 03- 05- 829 01- 07- 809 ++ 12- 736 ++ 23- 663 09- 23- 587 15- 31- 515 23- 40-	492 23- 43- 357 40- 50- 322 42- 125 48- 100 47- 076 48- 030 44-		322	08620	42-
	80 784++	018 008 901	974 04 01 930 ++ 00 859 02- 04- 837 01- 11- 828 ++ 22- 776 02- 29- 720 ++ 39- 632 ++ 42- 514 23- 46- 487	23- 46- 397 35- 50- 293 46- 238 45- 123 49- 100 47- 087 47-		293	09240	46-
STORNOWAY 03026	01 48500	028 027 886	007 ++ 04 960 ++ 02 877 ++ 05- 842 04- 07- 782 03- 17- 752 05- 19- 737 04- 19- 713 ++ 25- 598 13- 28-	570 ++ 28- 513 ++ 40- 487 19- 39- 427 ++ 39- 321 40- 50- 217 55- 160 52- 123 53- 104 49-		217	11400	55-
	01 626++	026 024 866 827	904 02 01- 859 00 03- 840 01 07- 815 01- 10- 769 01- 14- 670 06- 22- 634 ++ 19- 554 ++ 18- 518 16- 22-	464 ++ 29- 376 ++ 39- 326 40- 46- 268 50- 224 55- 189 51- 158 53- 124 49- 093 51- 062 47-		224	11190	55-
SHANWELL 03170	02 64500	023 022 874	023 10 03 017 10 985 08 783 07- 746 05- 713 05- 686 06- 576 16- 543 19- 513 20- 497 20- 475 22- 447 23-	390 31- 248 50- 230 48- 174 49- 137 54- 130 53- 120 47- 107 48- 093 53- 085 50- 030 48-		248	10492	50-
	03 62500	021 021 858	013 11 02 915 ++ 03- 835 ++ 07- 817 03- 12- 803 01- 14- 760 02- 20- 624 11- 30- 542 13- 34- 365 36- 48-	332 40- 50- 266 50- 202 51- 183 54- 138 54- 112 47- 092 53- 084 49- 030 51-		266	10030	50-
ALDERGROVE 03917	01 17400	026 017 787	980 09 07 936 ++ 03 927 06 00 898 06 05- 888 06 05- 769 01- 14- 637 05- 22- 608 ++ 23- 496 17- 25- 441	23- 30- 394 27- 36- 335 34- 43- 303 40- 50- 253 48- 183 57- 097 52- 055 49- 030 49-		183	12600	57-
	02 685++	025 015 871	000 10 02 902 ++ 01- 870 00 03- 841 00 03- 751 03- 13- 662 ++ 24- 605 07- 19- 575 ++ 18- 518 13- 21- 502	++ 26- 418 23- 34- 395 ++ 39- 370 31- 41- 307 ++ 50- 235 53- 205 57- 119 55- 110 51- 080 53- 073 51- 044		250	11810	57-
AUGHTON 03322	02 24500	023 016 841	009 13 04 953 ++ 01- 839 ++ 04- 790 04- 07- 785 ++ 07- 763 02- 13- 649 09- 24- 562 13- 27- 436 ++ 33-	411 27- 37- 322 40- 47- 244 54- 220 57- 209 56- 186 58- 147 52- 118 56- 106 53- 087 55- 079 52- 070 53-		220	11300	57-
	02 515++	022 015 872	999 11 02 888 ++ 01- 850 02- 03- 836 02- 03- 830 02- 05- 809 00 13- 772 01- 20- 635 10- 31- 514 14- 37-	367 33- 46- 319 40- 50- 252 50- 216 55- 200 53- 176 57- 134 51- 114 54- 102 51- 085 53- 030 47-		216	11420	55-
HEMSBY 03496	02 32500	018 017 874	930 ++ 03 832 02- 03- 807 01- 08- 798 ++ 11- 762 ++ 16- 736 ++ 15- 722 06- 17- 694 08- 14- 674 07- 12-	569 13- 18- 344 40- 48- 249 50- 226 47- 160 48- 144 50- 055 49-		249	10400	50-
	02 784++	017 015 877	007 11 05 929 03 01- 825 ++ 05- 804 05- 07- 780 04- 09- 750 06- 15- 739 ++ 14- 717 ++ 17- 691 09- 18-	672 10- 14- 644 ++ 17- 623 ++ 16- 584 13- 21- 518 20- 28- 490 22- 30- 352 40- 47- 315 47- 285 50- 237 48-		285	09410	50-
CRAWLEY 03774	01 00900	022 004 830	987 11 07 933 08 03 799 03- 05- 741 06- 09- 728 06- 13- 691 ++ 18- 645 ++ 18- 567 11- 23- 461 23- 36-	305 ++ 50- 237 50- 209 49- 186 54- 096 52- 030 52- Pressure suspect above 100mb		186	12410	54-
	02 55600	020 003 847	989 11 01 799 04- 07- 782 02- 09- 778 ++ 11- 753 03- 13- 507 21- 35- 410 25- 41- 303 ++ 50- 247 49- 238	48- 217 53- 199 54- 189 52- 151 55- 108 53-		199	11940	54-
CAMBORNE 03808	02 00906	024 013 709	001 12 07 972 ++ 06 966 09 03 946 11 01 934 ++ 03- 921 ++ 01- 899 09 04- 851 ++ 07- 823 03 12- 785 04	15- 650 04- 28- 638 03- 18- 599 04- 27- 511 12- 32- 444 21- 41- 297 40- 50- 183 62-				
	02 31500	023 011 709	976 10 06 937 07 04 882 05 01- 822 05 11- 770 03 15- 720 ++ 22- 662 03- 21- 610 04- 28- 567 08- 26- 514	11- 28- 382 27- 42- 300 40- 50- 214 58- 204 55- 172 59- 157 59- 099 54- 094 52- 086 53- 063 50- 056 52-		214	11620	58-
VALENTIA 03953	02 15600	028 027 680	875 03 00 828 07 06- 776 04 11- 698 01 18- 632 03- 23- 572 07- 17- 428 22- 33- 282 46- 176 65- 170 62-	119 59- 113 57- 063 57-		176	12800	65-
	02 11500	024 024 664	914 06 00 863 05 11- 816 06 15- 800 04 13- 741 03 16- 664 00 13- 479 17- 19- 437 31- 34- 391 26- 38-	288 44- 204 60- 164 64- 120 58- 072 59-		164	13300	64-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 11571	033 033 735	961 ++ 06 942 07 02 930 07 00 870 07 05 808 ++ 02 743 01 06- 686 05- 07- 663 03- 13- 656 03- 18- 642 03-	16- 580 09- 14- 544 12- 24- 487 ++ 27- 464 ++ 26- 443 22- 30- 433 22- 31- 418 ++ 36- 403 25- 35- 312 40-		190	12400	62-
	02 1257+	029 029 725	000 11 10 983 ++ 08 953 08 07 929 ++ 01 901 ++ 02- 891 06 01 874 06 06 835 06 06 795 04 04 779 04 04	740 ++ 04- 659 06- 07- 640 ++ 12- 635 05- 12- 597 09- 16- 566 11- 13- 522 14- 15- 458 20- 22- 339 37- 40-		183	12600	61-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 756++	029 029 680	023 14 10 972 10 08 898 05 03 888 ++ 04 860 ++ 08- 830 09 13- 784 08 17- 736 05 23- 682 00 09- 645 ++ 11-	568 ++ 20- 543 08- 27- 394 27- 32- 305 40- 47- 259 50- 213 58- 187 61- 141 54- 113 56- 097 52- 060 52-		182	12500	61-
	15 785++	026 026 672	016 ++ 08 978 10 08 861 03 02 852 02 04- 841 05 09- 798 07 17- 736 ++ 26- 716 ++ 08- 678 ++ 25- 647 02-	12- 614 ++ 16- 515 12- 19- 502 ++ 24- 493 13- 24- 366 32- 39- 315 40- 47- 220 58- 184 60- 172 58- 162 53-		184	12600	60-



## UPPER WINDS AT STANDARD LEVELS

29 June

1960

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	282245	T	330 23	+++ ++	360 37	360 39	360 39	360 38	360 40	360 30	360 07	350 31	350 44	350 40	360 37	020 18	020 06	060 17	P070 17	070 20	
	290500	P	340 31	+++ ++	360 40	360 41	010 39	360 42	350 45	350 36	350 44	340 81	330 61	340 42	350 25	350 19					
	291100	T	340 27	+++ ++	350 36	360 36	360 24	350 27	350 35	350 39	340 57	340 82	330 57	340 43	340 27	360 08					
	291700	P	340 25	+++ ++	350 28	350 30	350 34	340 37	340 41	340 44	340 53	340 60	330 45	330 40	340 26	360 16	030 09	060 06			
STORNOWAY 03026	282322	T	340 18	350 23	350 25	360 26	360 34	360 38	350 50	350 61	340 66	340 79	340 77	330 70	340 31						
	290500	P	350 16	+++ ++	360 19	360 27	350 31	350 33	350 44	350 57	340 66	340 74	340 71	330 58	340 30	350 23					
	291117	T	330 17	+++ ++	340 22	350 21	350 30	350 34	340 42	340 57	330 64	330 79	330 88	330 47	330 28	350 14	050 12				
	291705	P	340 16	+++ ++	340 19	340 25	340 24	340 31	330 42	340 55	330 64	330 73	320 79	330 45	320 34	350 12	350 16				
SHANWELL 03170	282300	T	330 20	330 29	340 35	350 37	350 39	350 37	340 43	340 73	340 87	340 102	340 101	350 66	340 31	020 13	020 07	060 09	060 15	P060 23	
	290500	P	330 15	+++ ++	340 35	350 42	360 41	360 42	350 42	350 57	350 84	350 93	340 84	350 61	340 27	350 20	030 15				
	291100	T	340 17	+++ ++	340 32	340 36	360 31	350 35	340 39	340 50	340 58	340 76	340 73	340 47	340 36	340 10	010 07	060 11	080 13	P080 35	
	291700	P	340 16	+++ ++	340 23	330 24	330 25	350 33	350 37	340 53	340 65	330 77	330 73	330 50	320 33	340 13	020 08	050 11	080 14		
ALDERGROVE 03917	282300	T	340 16	+++ ++	360 29	010 29	350 31	350 33	340 43	340 50	340 65	340 78	340 70	330 62	340 45	340 14	030 15	040 12	070 19		
	290500	P	010 04	+++ ++	360 27	360 32	350 32	350 34	360 41	350 50	350 69	340 81	340 74	330 54	340 40	330 20	060 06	050 12			
	291100	T	350 17	+++ ++	360 25	360 27	360 33	360 36	350 49	340 48	350 60	340 70	330 57	320 47	330 27	330 12	050 14	040 10	100 13		
	291700	P	360 16	+++ ++	350 17	360 19	360 25	350 34	350 37	340 39	340 47	330 59	320 69	330 60	310 23	340 16	020 07	070 08	080 15		
AUGHTON 03322	282300	T	030 06	+++ ++	350 16	330 19	330 24	340 33	340 45	340 59	340 57	340 80	340 76	340 72	340 35	360 10					
	290500	P	020 07	+++ ++	350 22	330 26	330 28	350 34	340 63	340 65	340 71	340 76	340 77	330 72	340 48	350 17	040 05	030 10			
	291100	T	310 13	+++ ++	350 17	350 19	350 27	360 31	360 44	350 50	350 56	350 72	340 78	330 52	330 39						
	291700	P	330 14	+++ ++	340 15	010 15	010 15	350 21	340 39	340 48	340 66	340 72	340 83	320 59	320 31	320 24	340 07	080 11	080 14		
HEMSBY 03496	282300	T	340 18	+++ ++	330 37	340 43	330 33	330 36	330 31	320 36	320 43	340 70	350 79	330 46	330 28						
	290500	P	330 13	+++ ++	330 38	330 39	330 37	330 36	330 39	330 32	330 43	330 73	330 59	330 50	330 34	330 19	340 11	070 08	070 20	070 16	
	291100	T	350 25	+++ ++	330 33	330 29	340 30	340 32	360 29	360 25	360 32	350 42	350 58	340 44	340 21	330 15	010 06	090 18	P080 14	080 29	
	291700	P	340 22	+++ ++	330 35	340 36	340 30	350 27	350 33	340 31	340 65	340 75	340 72	330 53	330 25	320 15	310 07	060 11	080 10	080 17	
CRAWLEY 03774	282300	T	000 00	+++ ++	350 14	350 19	350 25	350 20	340 34	330 35	350 63	350 90	350 100	340 76	330 49	340 21	P030 10	030 06	080 14	080 40	
	290500	P	340 03	+++ ++	340 20	330 25	330 29	320 28	320 40	330 54	320 66	330 69	330 73	330 73	330 32	340 16	360 11	060 08			
	291100	P	340 12	+++ ++	340 20	340 21	350 25	350 28	350 32	340 46	330 84	340 77	340 76	320 62	310 32	320 25	350 08	090 12			
	291700	P	360 08	+++ ++	360 10	360 11	350 18	350 27	350 33	340 44	340 49	340 61	340 78	320 50	320 31	330 16	010 07	330 06	070 18		
CAMBORNE 03808	282300	T	030 12	+++ ++	020 13	040 09	010 16	350 22	350 36	340 35	350 44	340 40	320 46	330 48	P340 29	340 20	360 09	040 10			
	290500	P	010 10	+++ ++	020 14	340 14	340 16	350 24	350 34	340 41	340 48	340 46	340 45	320 42	350 30	340 18	020 07	070 14	050 12		
	291115	T	360 12	+++ ++	030 12	020 13	360 21	350 23	350 33	350 44	350 51	340 46	330 45	320 41	320 21	320 06	090 11	080 08	090 19		
	291700	P	040 15	+++ ++	040 11	040 10	020 14	010 18	020 30	360 34	350 28	340 39	330 40	330 38	300 20	330 11	040 05	070 09	080 12		
VALENTIA 03953	290001	T	060 08	050 15	+++ ++	010 12	+++ ++	340 16	+++ ++	340 28	350 28	350 30	+++ ++	320 20	+++ ++	350 09					
	291141	P	045 10	+++ ++	040 13	030 13	030 15	040 16	020 20	350 21	340 20	340 20	320 16	300 16	300 11	330 07					
Ocean Weather Station 'I' 59°00'N 19°00'W	282300	T	190 10	190 09	220 06	310 05	330 04	320 06	290 09	290 15	290 23	280 33	270 41	260 35	250 17	010 06	280 05	060 15	080 20		
	290500	P	225 10	+++ ++	220 08	230 07	260 08	310 04	310 07	280 11	270 25	260 25	260 43	250 42							
	291100	T	220 07	230 06	240 05	250 10	260 07	260 05	270 09	280 20	280 31	270 42	260 49	260 42	250 18						
	291700	P	225 10	+++ ++	220 09	280 05	290 07	250 09	270 09	310 13	270 24	270 43	270 34	270 43	270 17	340 09					
Ocean Weather Station 'J' 52°30'N 20°00'W	282300	T	120 18	130 25	120 24	140 21	140 19	140 17	140 15	150 19	160 16	180 27	150 24	150 20	180 10	210 06	350 03				
	290500	P	135 20	+++ ++	130 17	130 17	140 18	140 18	130 14	160 14	170 21	170 25	170 30	170 28	220 05	290 02					
	291100	T	120 15	120 20	120 18	130 12	130 18	140 16	160 14	160 22	150 15	170 24	170 30	180 32	150 07	170 04					
	291700	P	135 20	+++ ++	130 13	120 13	130 13	150 14	160 17	140 19	130 16	160 21	190 24	200 19	170 02	270 08	110 06	050 18			
LARKHILL 03743	290630	P	340 01	+++ ++	350 09	350 18	340 23	340 35	330 44	330 57	330 58	340 62	320 67	330 60	330 39	340 18	040 11				
	291030	P	360 04	+++ ++	340 12	340 15	350 19	360 30	350 39	340 58	340 60	340 63	340 75	330 45	310 36	340 06	020 04	100 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	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
Cloud :—															
Inversion Levels :—															
Isothermal Levels :—															
YYGGgg	POSITION	PRESSURE		SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf. 0°C level	m °C °C	m °C °C	°C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
Cloud :—															
Inversion Levels :—															
Isothermal Levels :—															
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.												Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2			



STATION		MAX. WIND
LERWICK 03005	442mb 360 19 362mb 090 06 322mb 350 21 P27900m 070 27 07500m 350 62 16800m 020 18 07610/0 09200/1 22500m 090 12 12380/1 15360/2	340 96 08900m 340 89 08840m 330 64 08930m
STORNOWAY 03026	171mb 340 48 116mb 340 17 17500m 030 06 04150/0 07260/0 10550/1 19300m 010 11 11490/1 12060/1	340 83 09830m 330 83 09600m 330 90 10050m 320 85 10430m
SHANWELL 03170	173mb 350 37 123mb 340 36 P28500m 090 51 13190mb 350 31 05600/0 06070/0 10070/1 11450/1 11950/1 12570/1 131mb 340 32 25330/0 25400m 080 15 11000/1 12800/1 14530/1 16500/2	340 112 09600m 350 98 09820m 340 81 10460m 330 83 08700m
ALDERGROVE 03917	129mb 360 30 176mb 320 36 P25500m 060 16 12600m 320 43 26000m 090 16 07800/6 12000/1 15250/4	340 79 09090m 340 90 09810m 330 74 09410m 320 73 10050m
AUGHTON 03322	352mb 340 65 075mb 010 06 22500m 080 15 04710/0 14450/1 01020/2 02220/5 08280/0 08820/1 09320/0 11410/1 11870/1 16260/4	340 83 11500m 340 79 08930m 350 81 10050m 340 84 10150m
HEMSBY 03496	352mb 330 48 104mb 340 17 08100m 330 61 27600m 060 24 164mb 340 31 06170m 340 44 12720m 330 40 28500m 070 17 06170/0 12170/1	350 85 09780m 330 74 08900m 350 62 10370m 340 79 09320m
CRAWLEY 03774	433mb 340 46 P25450m 060 22 13200m 320 52 22800m 090 17 06200/0 11650/1 12820/1 09380/0 10940/1 13450/1	350 103 10920m 310 86 11250m 340 91 08390m 340 80 10130m
CAMBORNE 03808	13050/1 24900m 070 20 24300m 090 15 12900/1	
VALENTIA 03953	875mb 010 13 776mb 360 15 632mb 350 22 282mb 360 27 170mb 330 15 063mb 040 22 00300m 060 16 00600m 050 13 18000m 070 08 20100m 110 07	
Ocean Weather Station 'I' 59°00'N 19°00'W	111mb 310 01 075mb 310 08 035mb 060 20 13200m 250 30 161mb 250 25 18000m 010 04	
Ocean Weather Station 'J' 52°30'N 20°00'W	062mb 120 05 16500m 300 03 12750/1 18800/0	
LARKHILL 03743	20120m 050 12 25600m 080 24	320 78 11330m 340 81 10420m

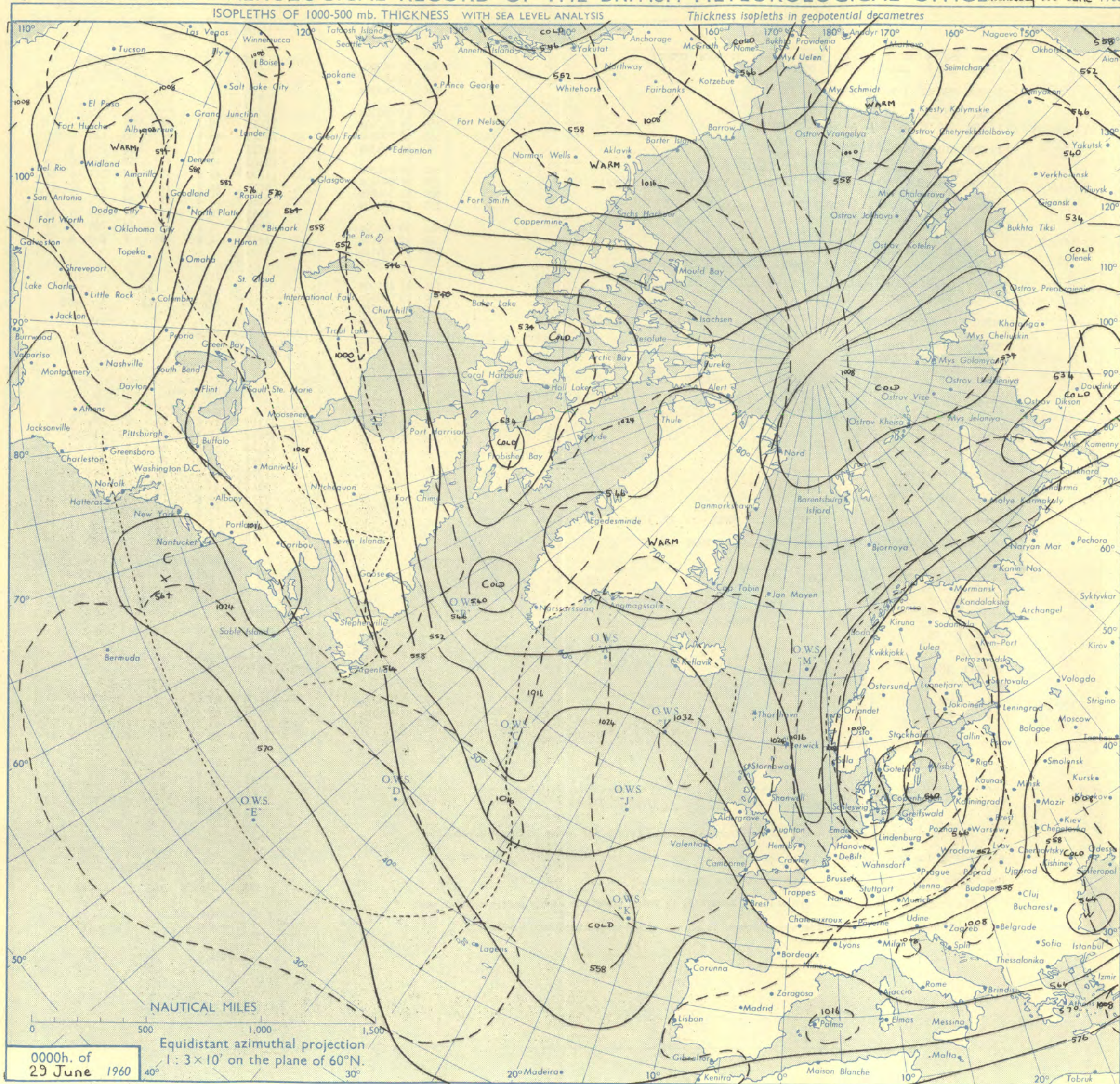
## NOTES ON THE AEROLOGICAL SITUATION

The trough which was near the North American seaboard yesterday has swung northeast around the slow-moving low over the Davis Strait and linked with the trough over mid-Atlantic. A cut-off low has formed in this trough and another northeast of the Azores.

The ridge over the northeastern Atlantic continues to swing round the slowly declining high west of Ireland and the low over southern Scandinavia is maintaining its southeastward movement.

AVERAGE AND EXTREME VALUES 1951-55								
JUNE								
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.								
Press. Level	Average		Extreme Temps.			Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	22345	-48.1	-42	-55	120	3	8	(11)
60	19675	-48.1	-41	-55	120	3	8	
100	16320	-48.8	-41	-56	244	5	11	
150	13660	-48.3	-41	-59	263	10	18	
200	11770	-49.8	-39	-67	271	16	27	
300	9125	-46.7	-37	-56	271	22	41	
400	7160	-32.6	-23	-44	271	18	33	
500	5555	-20.8	-11	-31	269	14	26	
700	2985	-5.2	3	-14	266	9	19	
850	1435	2.8	14	-7	269	6	18	
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)			
Average		257	-54.7		10190			
Max.		405	-40		12955			
Min.		172	-68		6890			
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 <sub>R</sub>	V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	22310	-49.6	-47	-57	106	9	10	
60	19675	-51.4	-45	-59	136	3	8	
100	16370	-52.6	-46	-61	251	8	13	
150	13745	-51.8	-42	-65	265	15	21	
200	11890	-54.0	-40	-65	268	20	32	
300	9265	-44.7	-36	-54	265	20	39	
400	7275	-29.6	-19	-41	265	17	31	
500	5640	-17.8	-9	-28	263	15	25	
700	3050	-2.1	7	-10	263	11	19	
850	1480	5.7	16	-3	264	7	16	
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)			
Average		234	-56.8		10950			
Max.		388	-41		13440			
Min.		160	-66		7225			
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.								
Press. Level	Average		Extreme Temps.			Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>		
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.	
40	(22185)	(-60.7)	...	...	120	5	11	
60	19670	-60.7	-53	-69	135	4	10	
100	16510	-62.9	-57	-71	255	21	24	
150	13995	-59.0	-51	-67	265	38	42	
200	12185	-56.6	-47	-67	275	42	47	
300	9530	-40.1	-33	-46	285	32	38	
400	7500	-23.9	-19	-29	285	27	31	
500	5835	-11.8	-8	-17	285	24	28	
700	3165	7.2	13	-1	290	18	22	
850	1535	17.9	27	8	290	9	14	
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
Upper		mb.	°C	mb.	mb.	°C	°C	
Lower		123	-65.7	...	73	...	-73	
		193	-59.8	266	...	-46	...	
* V <sub>R</sub> = Vector average wind. V <sub>S</sub> = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.								
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.								
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.								



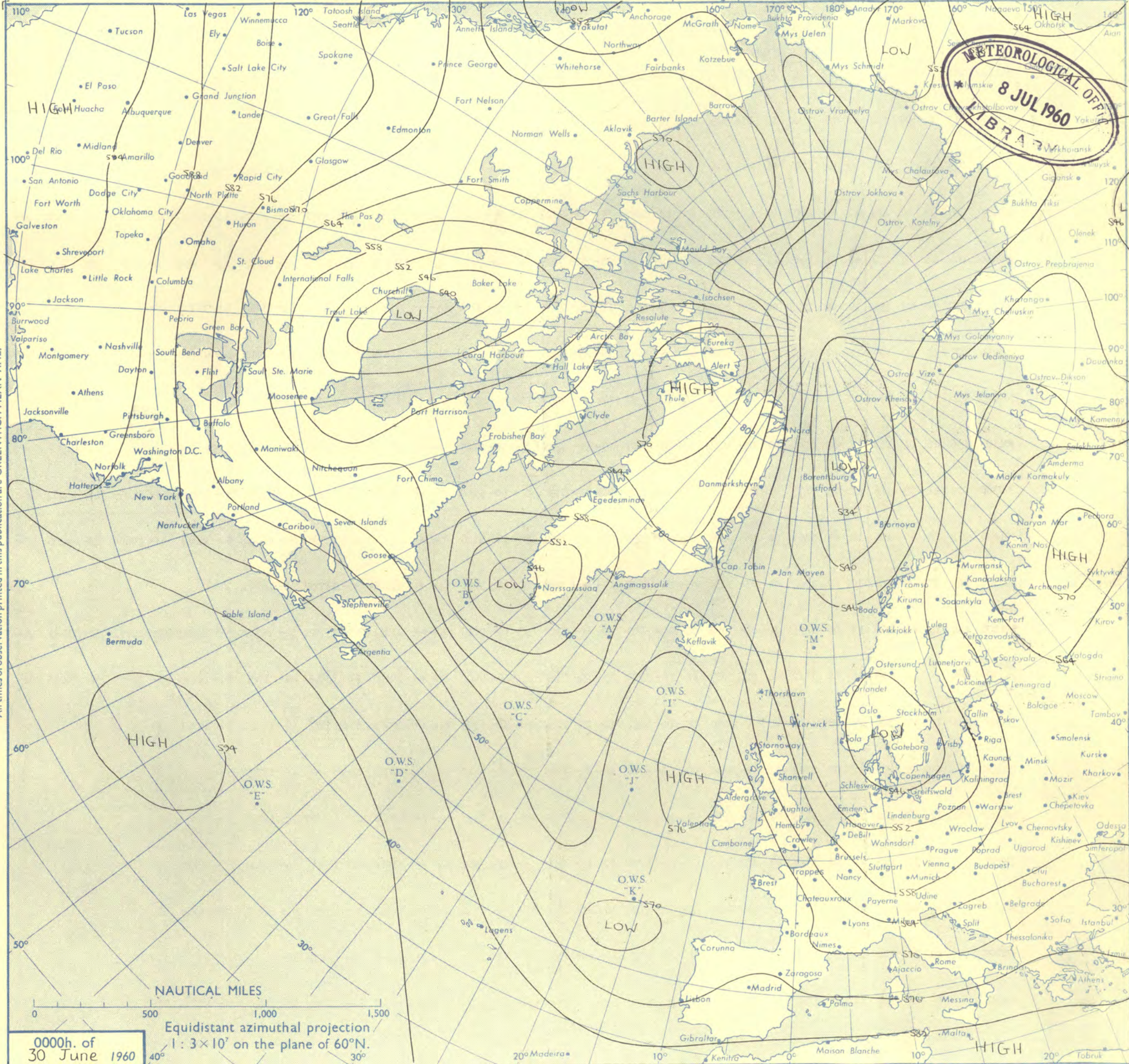




CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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





STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C			
LERWICK 03005	292245	082	08	05	141	07	04	1452	03	05	2977	08	14	5514	25	31	7098	36	41	9038	47	++	11735	45	13651	46	16330	48	18675	49	20893	48								
	301100	082	11	03	143	09	02	1457	02	07	2991	05	27	5555	21	40	7163	33	48	9120	48	++	11766	47	13678	47	16367	47	18716	49										
STORNOWAY 03026	292300	013	12	09	192	10	08	1520	01	01	3056	05	12	5630	19	23	7251	30	35	9237	44	++	11869	53																
	301100	013	14	06	181	10	04	1507	01	09	3050	05	24	5625	20	26	7239	32	36	9206	47	++	11806	53	13670	50	16312	51												
SHANWELL 03170	292300	005	09	04	174	10	04	1502	01	04	3039	06	17	5603	20	36	7224	31	39	9209	44	++	11871	48	13767	49	16429	49	18767	49	20986	48	24366	47						
	301100	005	15	07	157	11	01	1485	01	04	3019	06	19	5586	21	32	7199	32	44	9172	45	++	11816	48	13707	48	16365	50	18690	51	20904	50								
ALDERGROVE 03917	292300	077	10	09	194	10	08	1525	04	05	3085	03	06	5691	17	24	7329	29	35	9324	43	++	11948	58	13789	54	16413	52	18732	49										
	301140	077	15	09	179	12	07	1514	02	01	3060	03	05	5657	18	25	7284	30	36	9274	44	++	11877	59	13707	53	16324	54	18616	52	20799	52	24093	54						
AUGHTON 03322	300105	056	10	06	171	11	05	1510	02	03	3056	04	16	5653	17	23	7292	28	34	9296	42	++	11933	55	13786	51														
	301100	056	16	04	167	12	01	1500	00	05	3036	05	28	5607	19	42	7225	32	50	9189	48	++	11786	56	13630	54	16233	53												
HEMSBY 03496	292300	012	11	05	146	11	05	1473	01	02	3014	06	26	5575	21	41	7190	32	50	9164	45	++	11838	47	13727	51	16367	52	18697	51	20899	48	24262	48						
	301100	012	12	10	146	10	07	1468	00	03	2294	08	27	5555	20	40	7169	32	48	9128	49	++	11786	47	13688	50	16340	50	18661	51	20864	49	24226	46						
CRAWLEY 03774	292300	144	07	05	169	10	07	1502	01	03	3039	05	25	5627	17	26	7269	27	37	9274	43	++	11926	53	13778	53	16393	52												
	301100	144	14	04	164	13	03	1493	01	04	3028	05	24	5603	18	40	7228	30	47	9218	44	++	11851	55	13702	52	16317	54	18619	51	20797	51	24131	51						
CAMBORNE 03808	292300	088	10	08	175	12	08	1510	04	01	3089	01	16	5720	13	29	7381	26	39	9401	41	++	12048	57	13853	59	16436	54	18736	54	20909	52	24235	50						
	301100	088	17	11	166	15	08	1514	04	01	3079	01	10	5711	14	25	7366	25	37	9384	41	++	12023	60	13822	58	16415	53	18717	54										
VALENTIA 03953	292330	014	12	09	200	12	07	1537	02	01	3118	00	07	5740	16	24	7390	27	34	9410	42	++	12040	61	++++	++	16390	55												
	301200	014	17	07	192	13	04	1535	07	01	3117	00	08	5740	15	22	7380	27	33	9390	42	++	12030	61	++++	62	16370	56												
Ocean Weather Station 'I' 59°00'N 19°00'W	292300		13	11	223	12	10	1567	07	06	3140	02	03	5750	17	18	7380	28	29	9380	44	++	11980	61	13810	54	16420	51	18740	52										
	301100		14	11	202	14	11	1557	10	05	3125	03	05	5720	18	21	7340	30	33	9330	44	++	11940	58	13780	53	16420	50	18750	49										
Ocean Weather Station 'J' 52°30'N 20°00'W	300000		14	10	200	12	10	1540	07	07	3123	01	20	5740	18	24	7380	28	39	9380	44	++	11980	61	13800	55														
	301200		17	10	195	13	07	1530	04	06	3111	00	15	5730	15	25	7380	28	38	9380	43	++	12000	60	13830	53	16450	53	18750	52										



STATION	ww N <sub>h</sub> C <sub>L</sub> hC <sub>M</sub> C <sub>H</sub>	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 784++	017 007 894	995 07 03 841 03- 05- 828 02- 05- 783 05- 09- 734 06- 11- 607 14- 21- 375 40- 45- 329 47- 225 44- 100 48-	042 47-		329	08400	47-
	02 785++	017 007 895	002 09 02 856 03- 06- 845 02- 08- 822 02- 14- 755 ++ 17- 718 05- 26- 665 07- 27- 604 12- 30- 563 16- 35- 528 18- 37- 353 40- 50- 280 51- 247 53- 179 45- 100 47- 070 49-			247	10400	53-
STORNOWAY 03026	02 784++	023 022 833	934 05 03 882 ++ 00 818 01- 02- 764 04- 06- 751 03- 06- 682 ++ 15- 650 08- 27- 621 ++ 33- 591 ++ 19- 570 ++ 16- 536 16- 20- 329 40- 46- 261 51- 233 55- 175 50- 164 51-			233	10880	55-
	01 21600	022 020 817	010 10 03 921 03 01 890 03 06- 856 ++ 10- 817 ++ 07- 786 01- 09- 725 03- 23- 712 ++ 22- 563 14- 31- 508 ++ 25- 426 ++ 34- 345 40- 45- 240 58- 212 57- 197 52- 095 51-			240	10650	58-
SHANWELL 03170	02 55600	021 020 839	012 11 05 918 ++ 02 870 02 03- 793 03- 07- 777 01- 10- 752 ++ 15- 593 13- 30- 437 26- 41- 351 37- 44- 330 40- 46- 265 50- 238 52- 220 49- 191 47- 135 50- 127 47- 109 51- 030 47-			238	10720	52- 109 15870 51-
	02 61500	019 018 859	012 13 04 837 02- 05- 809 03- 07- 796 02- 08- 735 05- 17- 693 06- 19- 528 18- 29- 341 40- 50- 235 55- 192 48- 100 50- 063 50- 056 47- 050 50-			235	10780	55-
ALDERGROVE 03917	01 16400	025 014 760	005 10 08 936 ++ 02 887 03 01- 855 05 05- 790 01 10- 775 01 07- 702 ++ 05- 678 03- 07- 621 08- 13- 607 07- 13- 530 14- 22- 508 16- 23- 451 21- 29- 369 34- 40- 319 ++ 46- 220 58- 197 58- 177 52- 164 55- 102 52- 057 49-			220	11340	58-
	02 62500	021 012 822	997 12 07 892 04 02 795 02- 03- 753 03- 04- 698 03- 06- 624 ++ 14- 557 12- 19- 362 35- 41- 326 ++ 46- 265 50- 223 60- 207 60- 166 53- 107 52- 095 55- 058 51- 030 54-			223	11180	60-
AUGHTON 03322	01 44500	021 014 823	999 11 05 912 07 01 778 04- 08- 754 01- 09- 745 ++ 12- 656 06- 20- 606 ++ 15- 544 12- 18- 316 40- 46- 254 51- 221 56- 147 51- 128 53- 114 52-			221	11310	56-
	02 625++	020 013 846	010 13 02 919 05 01 904 ++ 01 886 03 04- 848 00 04- 838 ++ 07- 798 ++ 08- 791 04- 09- 776 02- 12- 728 04- 23- 689 05- 30- 632 10- 36- 507 19- 42- 348 40- 50- 288 50- 257 54- 214 59- 161 52- 148 55- 100 53- 085 53-			214	11330	59-
HEMSBY 03496	02 785++	017 016 858 806	011 12 06 910 04 02 897 03 00 839 ++ 02- 830 02- 07- 812 00 12- 806 ++ 15- 768 01- 21- 602 13- 34- 597 12- 34- 479 24- 44- 454 24- 44- 339 40- 50- 273 49- 251 50- 206 46- 142 51- 118 50- 100 52- 090 48- 070 51- 030 48-			251	10340	50-
	25 6242+	018 016 853	972 07 05 760 06- 10- 738 ++ 13- 715 08- 24- 683 08- 29- 510 19- 39- 463 25- 42- 426 28- 45- 351 40- 50- 278 52- 193 46- 083 52- 074 50- 067 53- 060 48- 046 48- 040 51- 030 46-			278	09610	52-
CRAWLEY 03774	01 25600	021 003 836	995 11 06 990 ++ 05 792 ++ 06- 788 04- 08- 763 03- 12- 725 03- 19- 698 ++ 26- 651 08- 26- 593 09- 28- 516 ++ 24- 415 25- 35- 317 40- 48- 221 55- 207 52- 188 55- 089 51-			221	11280	55-
	02 68500	020 002 863	980 11 01 869 01 02- 797 05- 06- 780 02- 13- 765 ++ 15- 655 ++ 29- 504 18- 40- 340 39- 50- 234 55- 170 52- 090 54- 047 50- 030 51- Pressure suspect above 100mb.			234	10840	55-
CAMBORNE 03808	02 15500	021 010 683	999 13 09 968 ++ 03 836 03 01 828 04 11- 814 ++ 16- 723 02 25- 686 00 14- 655 00 14- 569 09- 20- 551 09- 22- 524 12- 25- 496 13- 29- 347 34- 46- 304 40- 50- 222 55- 169 61- 151 59- 135 54- 116 57- 104 54- 044 52- 030 50-			169	13090	61-
	03 32500	020 009 698	995 14 08 933 ++ 06 823 02 01- 810 ++ 11- 794 03 15- 782 ++ 19- 765 ++ 07- 747 01 07- 727 02 09- 643 03- 15- 626 03- 16- 582 ++ 23- 507 13- 24- 440 21- 30- 384 27- 39- 328 38- 48- 202 60- 171 60- 140 54- 066 54-			202	11980	60-
VALENTIA 03953	20 00900	024 023 700	991 12 07 852 02 01 838 08 15- 735 02 06- 676 03- 10- 574 07- 18- 518 14- 23- 468 19- 26- 452 19- 27- 410 26- 33- 360 31- 40- 321 38- 47- 208 61- 109 55- 089 56- 058 53-			208	11800	61-
	03 11501	023 021 700	005 14 05 901 06 01- 877 08 03- 812 05 01- 793 06 01- 606 08- 14- 575 09- 20- 559 09- 16- 357 34- 41- 346 36- 43- 230 55- 187 63- 150 62- 116 57- 106 55- 098 57- 074 56-			187	12500	63-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 3567+	027 027 726	930 ++ 06 897 06 04 880 ++ 03 856 ++ 05 849 07 05 810 05 03 773 02 01 767 03 02 685 03- 04- 667 02- 06- 643 00 10- 601 09- 11- 595 09- 10- 525 14- 15- 411 27- 28- 406 27- 28- 250 54- 220 59- 211 59- 199 61- 162 54- 099 52- 068 52- 055 50-			199	12000	61-
	02 22578	024 024 743	995 14 09 950 13 09 923 ++ 08- 874 07 03- 851 10 05- 784 04 14- 755 01 13- 726 ++ 03- 676 05- 06- 668 04- 05- 651 ++ 06- 638 07- 08- 630 07- 08- 615 ++ 10- 543 15- 16- 506 18- 21- 497 18- 21- 419 28- 31- 327 40- 44- 254 53- 212 60- 180 53- 155 53- 130 52- 118 50- 099 50- 058 49-			212	11600	60-
Ocean Weather Station 'J' 52°30'N 20°00'W	01 24602	024 024 678	979 ++ 09 960 ++ 05 878 03 01 843 08 11- 802 07 06- 772 06 15- 730 03 09- 720 ++ 17- 641 02- 29- 510 ++ 20- 501 18- 24- 478 19- 28- 408 27- 38- 323 40- 50- 242 55- 203 61- 164 55- 107 55-			203	11900	61-
	02 31501	023 023 673	010 14 08 874 ++ 01 860 02 05- 833 07 07- 786 07 17- 774 ++ 21- 702 01 14- 677 00 13- 640 03- 17- 612 05- 15- 570 09- 20- 405 27- 38- 320 40- 48- 202 61- 161 52- 105 53- 053 51-			202	11900	61-







STATION		MAX. WIND
LERWICK 03005	P29700m 100 24 26300/0 13800m 350 22 06100/0 10240/1 230mb 350 42 074mb 020 05 08390/0 10170/1 11140/1	340 78 078CCm 360 72 081CCm 350 66 09760m 330 77 08630m
STORNOWAY 03026	19800m 040 05 05380/0 12110/1 12570/1 11830/1	330 84 10710m 340 75 10190m 330 65 10230m
SHANWELL 03170	P27700m 070 31 25200m 100 24 08740/0 10750/1 11300/1 223mb 340 71 P25500m 070 23 24000/0 22600m 080 11 11300/1	330 85 09140m 340 90 09550m 350 86 09500m 340 63 11020m
ALDERGROVE 03917	25600m 110 19 12150/1 18250/2 11950m 330 24 25200m 080 27 01200/0 15650/1 16950/2 21750/0 26000m 090 18 02500/0 11700/1 12800/4	320 67 10020m 320 69 10180m 330 66 09620m
AUGHTON 03322	22800m 060 16 12200/1 13090/1 17730/2 21600m 070 15 11580/1 11960/1 21600m 090 16 03300/0 12010/1	330 83 10370m 330 78 09540m 340 72 09190m 350 62 08770m
HEMSBY 03496	172mb 330 31 P27100m 090 27 06140m 330 49 28800m 080 25 05720/0 07950/0 11010/1 11550/1 125mb 310 18 12700m 320 29 19800m 070 07 10710/1	330 83 09450m 320 84 09870m 320 62 09850m 320 74 08500m
CRAWLEY 03774	19800m 050 06 12030/1 25200m 120 19 19400/8 13200m 300 29 20100m 240 05 11100/0 11700/1 12800/1 19970/9	330 82 10600m 310 75 11270m 310 72 10660m 310 72 11400m
CAMBORNE 03808	P28800m 090 25 20100m 080 12 22500m 100 08 02430/3	
VALENTIA 03953	735mb 020 16 574mb 020 16 089mb 350 10 058mb 050 06 606mb 360 15 230mb 320 24 074mb 330 07	
Ocean Weather Station 'I' 59°00'N 19°00'W	075mb 020 09 060 mb 050 12 03600m 200 15 07800m 250 38 07600/0 075mb 030 09 062mb 040 15 18600m 030 07 04300/0 11770/1	
Ocean Weather Station 'J' 52°30'N 20°00'W	12900m 190 08 19800m 070 08	
LARKHILL 03743	16750/4 03880/0 12950/1	320 72 09300m 310 68 10910m

AVERAGE AND EXTREME VALUES 1951-55							
JUNE							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22345	-48.1	-42	-55	...	...	(11)
60	19675	-48.1	-41	-55	120	3	8
100	16320	-48.8	-41	-56	244	5	11
150	13660	-48.3	-41	-59	263	10	18
200	11770	-49.8	-39	-67	271	16	27
300	9125	-46.7	-37	-56	271	22	4
400	7160	-32.6	-23	-44	271	18	33
500	5555	-20.8	-11	-31	269	14	26
700	2985	-5.2	3	-14	266	9	19
850	1435	2.8	14	-7	269	6	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		257	-54.7		10190		
Max.		405	-40		12955		
Min.		172	-68		6890		
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 <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22310	-49.6	-47	-57	106	9	10
60	19675	-51.4	-45	-59	136	3	8
100	16370	-52.6	-46	-61	251	8	13
150	13745	-51.8	-42	-65	265	15	21
200	11890	-54.0	-40	-65	268	20	32
300	9265	-44.7	-36	-54	265	20	39
400	7275	-29.6	-19	-41	265	17	31
500	5640	-17.8	-9	-28	263	15	25
700	3050	-2.1	7	-10	263	11	19
850	1480	5.7	16	-3	264	7	16
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		234	-56.8		10950		
Max.		388	-41		13440		
Min.		160	-66		7225		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V <sub>R</sub>	V <sub>S</sub>	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22185)	(-60.7)	...	...	120	5	11
60	19670	-60.7	-53	-69	135	4	10
100	16510	-62.9	-57	-71	255	21	24
150	13995	-59.0	-51	-67	265	38	42
200	12185	-56.6	-47	-67	275	42	47
300	9530	-40.1	-33	-46	285	32	38
400	7500	-23.9	-19	-29	285	27	31
500	5835	-11.8	-8	-17	285	24	28
700	3165	7.2	13	-1	290	18	22
850	1535	17.9	27	8	290	9	14
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		123	-65.7	...	73	...	-7
		193	-59.8	266	...	-46	...
* V <sub>R</sub> = Vector average wind. V <sub>S</sub> = 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.							



