

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb				
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C					
LERWICK 03005	312330	082	10	08	155	12	08	1193	03	00	3014	03	16	5628	19	25	7218	31	38	9223	46	++	11906	43	13815	43	16563	44														
	011130	082	14	09	143	12	06	1477	03	01	3024	05	07	5592	20	24	7207	33	37	9167	47	++	11821	45	13749	45	16456	45	18818	47	21047	47	24407	50								
STORNOWAY 03026	312350	013	12	11	155	11	09	1188	02	00	3033	06	09	5596	21	28	7201	34	40	9151	48	++	11796	45	13713	45	16400	48	18752	48												
	011140	013	12	11	142	10	08	1475	02	01	3014	07	11	5561	23	28	7155	36	42	9093	49	++	11792	43	13730	44	16443	45	18832	43	21093	42										
SHANWELL 03170	312330	005	06	06	169	10	08	1512	04	01	3063	04	22	5647	20	27	7261	32	37	9226	48	++	11877	46	13788	47	16463	48	18814	47												
	011130	005	18	08	158	14	05	1503	04	02	3054	06	13	5621	21	26	7227	34	38	9181	49	++	11841	45	13761	46	16446	46	18807	46												
ALDERGROVE 03917	312330	077	10	08	182	12	09	1528	06	01	3088	04	13	5679	19	27	7300	31	37	9274	47	++	11937	45	13848	47																
	011130	077	15	10	169	11	05	1509	04	02	3049	07	12	5617	21	25	7227	34	38	9187	49	++	11862	45	13784	46	16486	46	18855	45	21106	45										
AUGHTON 03322	312330	056	11	10	173	14	11	1527	07	05	3101	01	15	5702	17	22	7337	29	34	9323	45	++	11991	48	13884	49	16537	51														
	011130	056	18	11	161	14	08	1508	06	13	3069	03	21	5660	18	25	7287	30	40	9263	47	++	11908	47	13816	47	16475	49	18810	49	21029	48										
HEMSBY 03496	312330	012	15	12	160	17	11	1531	08	05	3113	01	07	5740	15	24	7395	25	28	9420	41	++	12060	53	13933	51	16558	52	18881	50												
	011130	012	21	10	150	18	09	1513	06	03	3082	01	05	5688	16	21	7335	27	31	9356	41	++	11996	54	13876	50	16512	52	18839	51	21051	47										
CRAWLEY 03774	312330	144	12	10	172	13	10	1531	08	07	3111	02	06	5742	15	26	7397	25	29	9426	40	46	12053	60	13902	53	16501	55	18795	52	20981	50										
	011130	144	19	11	157	19	10	1519	07	01	3098	00	05	5707	16	20	7365	24	28	9395	40	46	12027	52	13902	51	16531	52	18850	51												
CAMBORNE 03808	312330	088	15	14	176	15	13	1535	07	05	3111	01	27	5738	15	19	7396	26	28	9414	41	++	12050	54	13912	52	16531	52														
	011130	088	18	13	166	16	09	1518	05	03	3089	01	29	5700	17	40	7338	29	++	9324	45	++	11958	52	13832	51	16648	53	18753	52	20929	51										
VALENTIA 03953	312330	014	13	11	190	13	11	1539	04	02	3106	00	20	5720	15	27	7370	24	40	9360	46	++	12000	48	13900	48																
	011130	014	17	10	192	15	08	1539	05	05	3104	01	07	5700	19	30	7320	31	43	9300	46	++	11980	46	13890	48	16550	50	18890	49	21130	43										
Ocean Weather Station 'I' 59°00'N 19°00'W	010001		12	06	104	10	05	1428	01	02	2961	09	14	5490	25	32	7080	37	46	9020	45	++	11770	41	13710	44	16430	45	18810	45												
	011200		11	06	124	10	07	1448	02	03	2999	05	13	5560	21	31	7170	33	43	9130	47	++	11820	45	13730	46	16420	48	18780	48	21013	46										
53°59'N 15°00'W Ocean Weather Station 'J' 52°30'N 20°00'W	312300		14	11	195	12	10	1535	02	06	3085	02	05	5670	21	26	7270	32	++	9240	47	++	11900	46	13810	46	16480	48	18830	48	21040	48	24420	45								

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _h C _L hC _M C _H	PRESSURE																							TROPOPAUSE		
		MSL	Surf.	0°C level																					mb	m	°C
LERWICK 03005	02 30930	019 009 805 775	005 13 10 990 ++ 07 800 00 03- 784 00 05- 753 ++ 11- 680 04- 17- 596 ++ 22- 535 ++ 21- 525 ++ 22- 340 40-	47- 271 50- 250 51- 230 44- 100 44- 078 45-																					250	10420	51-
	01 31432	017 007 788	000 12 06 907 05 02 891 ++ 02 839 ++ 01 812 02 12- 737 04- 06- 690 ++ 07- 675 07- 11- 665 ++ 12- 620 ++ 14- 584 ++ 19- 566 15- 19- 530 ++ 21- 471 23- 28- 352 40- 45- 250 53- 249 54- 239 54- 213 46- 190 44- 100 46- 030 50- Pressure suspect above 200mb																					249	10390	54-	
STORNOWAY 03026	60 5552+	019 017 804	913 06 04 692 07- 11- 630 ++ 15- 561 ++ 23- 537 17- 25- 360 40- 46- 258 55- 250 54- 032 47- 144 45- 065 48-																					258	10110	55-	
	21 855++	017 015 809	011 11 09 750 ++ 06- 712 ++ 10- 676 09- 11- 648 10- 17- 620 ++ 23- 581 16- 24- 571 16- 23- 542 ++ 24- 489 25- 30- 484 24- 29- 375 39- 45- 359 43- 341 44- 284 52- 250 45- 238 42- 075 45- 069 43- 064 45- 054 46- 034 43-																					284	09440	52-	
SHANWELL 03170	02 00901	021 020 772	012 10 08 990 ++ 08 950 ++ 05- 935 10 05 835 02 04- 647 06- 27- 580 ++ 27- 573 ++ 23- 562 ++ 25- 546 ++ 23- 380 35- 40- 343 40- 47- 276 53- 256 55- 250 54- 226 46- 100 48- 057 48-																					256	10280	55-	
	02 11508	019 018 786	007 15 06 956 ++ 06 923 08 02 902 ++ 01- 854 ++ 01- 717 ++ 11- 657 09- 19- 647 ++ 21- 620 10- 14- 518 19- 23- 358 40- 45- 273 53- 250 51- 217 46- 140 46- 124 49- 100 46- 083 48- 056 46-																					273	09790	53-	
ALDERGROVE 03917	03 25601	022 013 765	001 12 10 976 ++ 07 917 08 06 878 08 04 852 ++ 01- 754 ++ 08- 720 03- 11- 652 ++ 18- 616 08- 20- 409 ++ 36- 338 ++ 46- 275 51- 257 53- 250 53- 241 52- 223 46- 105 48-																					257	10300	53-	
	60 2577+	020 011 803	011 15 10 000 11 05 940 ++ 05 912 06 01 893 07 01 728 06- 09- 708 ++ 12- 650 08- 11- 530 ++ 21- 501 ++ 25- 461 25- 29- 350 ++ 46- 305 48- 277 52- 250 48- 216 45- 087 47- 052 45- 036 40-																					277	09700	52-	
AUGHTON 03322	01 10930	021 014 739	008 14 12 002 14 11 973 ++ 10 963 11 08 950 ++ 05 939 10 07 921 09 04 910 10 02- 878 ++ 07 854 ++ 06 835 ++ 02 814 ++ 03 763 02 00 723 01- 07- 709 01- 14- 682 ++ 20- 561 ++ 31- 540 13- 20- 502 17- 22- 458 ++ 27- 442 ++ 31- 408 28- 33- 332 40- 48- 250 52- 239 48- 151 49- 096 51- 075 49-																					251	10500	52-	
	03 32532	019 012 750	004 14 08 939 09 07 900 08 04 870 07 07- 831 06 14- 826 05 14- 811 04 01- 781 ++ 16- 751 00 08- 737 01- 17- 722 ++ 22- 657 ++ 25- 635 07- 22- 628 ++ 25- 587 10- 29- 546 14- 28- 527 16- 22- 513 ++ 21- 484 ++ 30- 400 30- 40- 342 40- 48- 284 50- 250 53- 199 47- 166 47- 119 50- 042 47-																					250	10450	53-	
HEMSBY 03496	02 40970	019 018 687	008 ++ 11 983 18 10 940 15 08 823 06 04 790 ++ 05- 778 ++ 06- 767 ++ 01- 757 ++ 03- 745 ++ 11- 726 ++ 05- 696 01 05- 634 05- 07- 621 05- 17- 600 ++ 24- 537 ++ 32- 512 ++ 28- 485 ++ 22- 409 24- 27- 305 40- 43- 250 51- 225 57 215 58- 203 53- 185 50- 121 53- 067 50-																					215	11600	58-	
	03 21607	018 016 724	002 18 09 940 ++ 09 920 12 06 857 ++ 04 809 03 01 789 02 01- 777 03 05- 770 ++ 10- 758 02 11- 749 ++ 05- 702 02- 05- 686 ++ 13- 679 01- 15- 587 ++ 25- 539 14- 21- 487 17- 21- 401 27- 31- 352 32- 36- 305 40- 44- 250 51- 211 59- 185 49- 103 52- 049 47- 044 51-																					211	11640	59-	
CRAWLEY 03774	03 2577+	021 003 672	987 15 06 980 ++ 03 903 11 03 875 ++ 00 822 ++ 14- 819 06 14- 793 ++ 18- 780 ++ 05- 770 ++ 18- 721 03 12- 700 ++ 06- 682 ++ 14- 656 ++ 16- 631 ++ 16- 609 ++ 22- 556 ++ 20- 531 11- 34- 495 ++ 25- 478 17- 26- 431 21- 25- 395 ++ 29- 334 34- 39- 304 ++ 46- 259 50- 250 51- 201 61- 196 55- 183 56- 178 52- 119 55- 100 55- 049 50-																					201	12010	61-	
	02 8097+	018 001 701	986 17 08 913 ++ 06 884 ++ 06 874 08 04 780 ++ 15- 761 04 08- 730 ++ 05- 654 ++ 06- 648 ++ 09- 626 ++ 11- 614 ++ 14- 548 ++ 16- 507 17- 21- 480 16- 19- 449 19- 22- 306 39- 45- 250 51- 213 60- 200 52- 181 49- 101 53- 054 48-																					213	11610	60-	
CAMBORNE 03808	02 763++	021 010 663	887 ++ 07 865 08 06 800 03 02 769 ++ 22- 761 05 22- 699 01 27- 678 01 17- 650 ++ 12- 587 ++ 17- 548 12- 18- 539 11- 16- 453 19- 22- 306 40- 43- 250 52- 227 57- 186 51- 085 52-																					227	11260	57-	
	02 28543	020 009 714	997 16 08 977 14 09 849 05 03 832 06 14- 792 05 16- 640 05- 35- 584 07- 40- 512 16- 39- 463 20- 44- 407 28- 50- 292 47- 250 52- 238 54- 162 50- 127 53- 034 51-																					238	10810	54-	
VALENTIA 03953	03 65600	023 023 700	989 13 11 812 01 00 794 03 11- 740 02 16- 582 03- 30- 546 11- 23- 506 14- 26- 309 44- 261 53- 250 54- 244 55- 208 48- 147 48-																					244	10700	55-	
	20 22530	023 021 730	935 09 06 807 02 07 - 779 02 08- 730 00 12- 702 01- 07- 550 15- 21- 539 14- 22- 388 33- 45- 250 46- 285 49- 264 49- 246 46- 117 50- 072 49- 048 43-																					285	09600	49-	
Ocean Weather Station 'I' 59°00'N 19°00'W	15 784++	013 013 862 816	960 06 02 846 01- 02- 822 01 05- 798 ++ 09- 704 ++ 13- 693 09- 14- 632 ++ 20- 587 17- 21- 447 31- 39- 369 40- 48- 311 47- 270 42- 250 41- 223 41- 151 44- 053 46-																					311	08800	47-	
	25 395++	015 015 778	952 05 03 871 01 00 856 03 02- 732 03- 12- 665 08- 15- 585 13- 22- 431 28- 38- 354 40- 49- 300 47- 256 50- 250 49- 200 45- 092 48- 044 46-																					256	10200	50-	
Ocean Weather Station 'J' 52°30'N 20°00'W	32542	022 022 780	957 09 08 930 07 03 784 00- 13- 750 03- 11- 738 00- 04- 725 01- 04- 600 10- 14- 459 26- 37- 432 28- 39- 420 30- 40- 344 40- 300 47- 265 52- 250 51- 200 46- 100 49- 047 48- 030 45- 025 46-																					265	10100	52-	

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	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C
011153	44°1' N 11°5' W	023 016 655	061 17 13	186	13 08	073 13 05	1551 13 05	2057 09 05	07 03	3155 03 01	01- 04-	4389 04- 07-	07- 13-	5810 12- 19-
Cloud :— 2/8 Sc. 3000 to 3500ft. 5/8 Ci. 20000ft. to TNR.														
Inversion Levels :— 950mb to 900mb 12½°C to 13°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	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C
011324	45°1' N 06°0' W	020 012 653	061 17 08	165	15 06	1055 12 05	1530 09 08	2030 07 08	06 26-	3121 04 32-	01- 15-	4353 05- 19-	11- 19-	5758 13- 13-
Cloud :— 6/8 Sc. 1200 to 1300ft. 1/8 Ac. 14000 to 15000ft. 1/8 Ac. 17000 to 19000ft. 5/8 Cs. 22000ft. to TNG.														
Inversion Levels :— Isothermal Levels :— 950mb to 967mb 15°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.			

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	080mb 190 11 P22500m 160 07 21300m 180 08	
STORNOWAY 03026	074mb 220 10 17300m 250 08 038mb 110 09 20500m 170 06 17890/5	
SHANWELL 03170	063mb 190 05 20400m 200 07 064mb 090 03 15700m 240 13	
ALDERGROVE 03917	357mb 250 40 117mb 240 17 14300m 250 29 10670/1 357mb 230 28 042mb 120 11	
AUGHTON 03322	085mb 230 12 19500m 210 06 08300/0 23400m 120 05	250 61 11030m 230 65 10270m
HEMSBY 03496	073mb 140 05 07690m 250 46 07690/0 08090/0 24600m 070 12 08380/0 08830/0 10720/1	250 63 11180m 260 69 10390m 250 71 10750m 220 80 09480m
CRAWLEY 03774	055mb 150 04 19800m 210 11 04700/0 11230/1 21300m 110 09 04970/0 08200/0 09020/0 10680/1	250 62 10170m 230 81 10490m
CAMBORNE 03808	440mb 240 37 091mb 250 09 06500m 250 25 18600m 250 05 01920/2 03760/2 06080/5 06500/0 06930/0 266mb 230 77 037mb 120 16 12600m 280 36 06110/0 12450/1	270 65 10070m 250 64 10740m 230 86 10360m
VALENTIA 03953		250 68 10700m
Ocean Weather Station 'I' 59°00'N 19°00'W	090mb 230 14 058mb 200 05 P23100m 190 05 08100m 310 59 08080/0 09130/0 10570/1	310 84 10070m 300 94 09310m
Ocean Weather Station 'J' 52°30'N 20°00'W	330mb 260 45 217mb 260 45 116mb 250 23	
LARKHILL 03743	06430/0	250 62 10380m 240 78 09900m

NOTES ON THE AEROLOGICAL SITUATION

The low near Baffin Island is deepening while the centre near Labrador is moving east. The downstream ridge continues to intensify and is also moving eastwards. The low near Iceland is continuing its northeast movement and is filling. The trough from the British Isles to Spain is moving east and relaxing while the centre over Poland is moving north. The ridge over Western Russia is weakening gradually without much movement. The low near north Russia is moving southeast.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

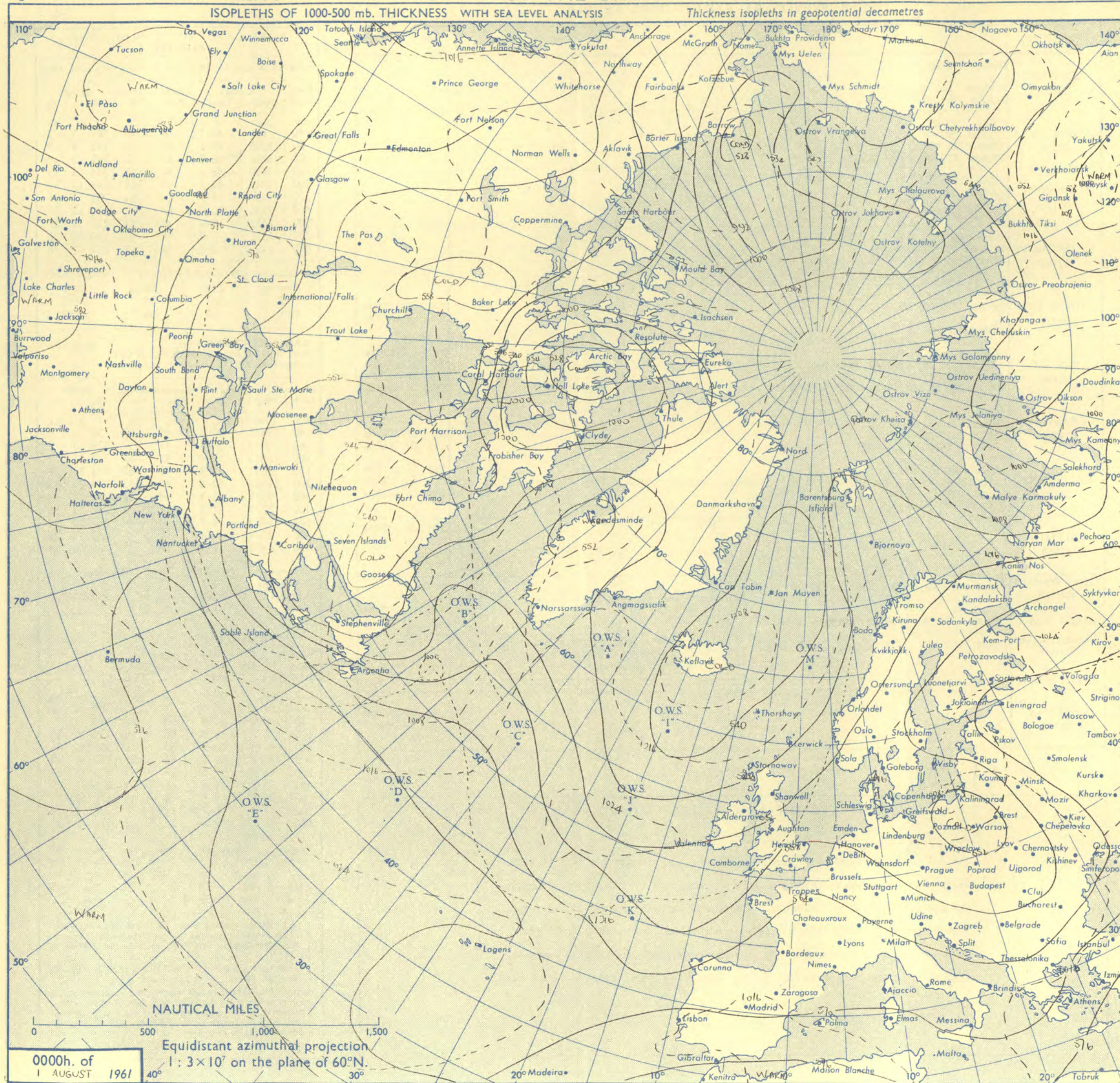
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb.	°C	mb.	mb.	°C	°C
Lower	(195)	(-59.1)	...	...	...	...

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

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

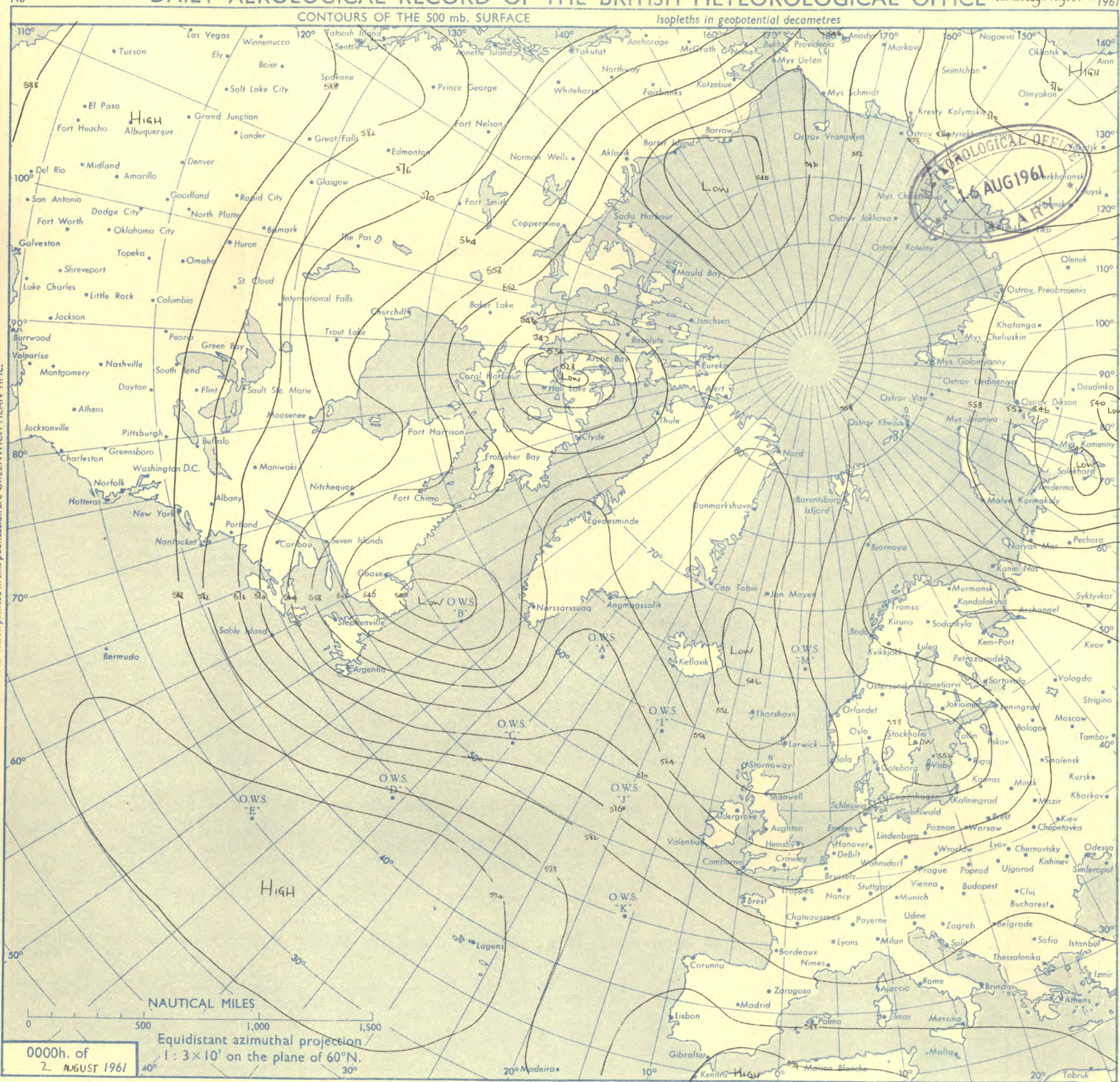
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



STATION	YYGGgg	SURFACE	1000mb	850mb	700mb	500mb	400mb	300mb	200mb	150mb	100mb	70mb	50mb	30mb
		gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C
LERWICK 03005	012330	082 11 11	112 10 09	1447 03 01	2995 06- 09-	5544 23- 32-	7140 35- 47-	9088 48- ++	11790 43- 13724	44- 16431	45- 18807	45-		
	021222	082 13 08	100 12 07	1434 01 04-	2966 08- 14-	5501 25- 37-	7090 36- 46-	9037 48- ++	11762 41- 13705	43- 16422	45- 18800	45- 21044	45-	
STORNOWAY 03026	012340	013 11 09	137 10 08	1467 01 02-	3002 07- 16-	5543 23- 34-	7137 35- 45-	9082 49- ++	11794 42- 13728	45-				
	021144	013 14 09	136 12 08	1465 00 02-	3000 06- 13-	5553 22- 33-	7157 34- 44-	9112 47- ++	11825 43- 13762	44- 16473	45- 18848	45- 21097	44-	
SHANWELL 03170	012330	005 11 08	132 12 07	1474 04 01-	3026 06- 09-	5579 22- 29-	7179 34- 42-	9134 48- ++	11819 44- 13750	45- 16437	47- 18799	47-		
	021130	005 19 06	131 15 04	1473 02 01-	3008 09- 14-	5549 24- 35-	7145 34- 44-	9095 49- ++	11793 42- 13726	45- 16419	47- 18781	47- 21016	46-	
ALDERGROVE 03917	012330	077 12 10	157 11 09	1491 03 02	3036 06- 09-	5593 22- 36-	7203 32- 36-	9168 47- ++	11859 45- 13772	46- 16445	49- 18797	48- 21017	48- 24393	48-
	021130	077 14 09	174 12 08	1506 01 00	3048 05- 15-	5617 20- 35-	7239 31- 47-	9228 43- ++	11898 45- 13818	46- 16509	47- 18882	45-		
AUGHTON 03322	012330	056 12 10	151 13 10	1495 04 02-	3042 05- 10-	5609 21- 25-	7217 33- 43-	9184 47- ++	11877 45- 13793	47- 16467	49- 18813	48- 21029	48-	
	021130	056 15 08	168 13 05	1501 01 02-	3041 05- 23-	5605 21- 40-	7211 33- ++	9167 48- ++	11859 45- 13771	47- 16452	46- 18823	47-		
HEMSBY 03496	012330	012 15 14	126 14 13	1487 07 05	3056 04- 05-	5635 20- 26-	7248 33- 37-	9213 48- ++	11884 47- 13790	48- 16448	50- 18781	49- 20993	50-	
	021130	012 18 12	143 14 10	1484 03 02-	3028 07- 13-	5578 22- 36-	7184 34- 47-	9138 49- ++	11830 44- 13747	48- 16414	49- 18755	48- 20967	47-	
CRAWLEY 03774	012330	144 14 12	142 ++ ++	1507 08 03	3079 03- 04-	5675 19- 24-	7295 30- 48-	9270 47- ++	11969 46- 13878	47- 16534	51-			
	021130	144 18 09	163 17 08	1519 05 01-	3070 06- 12-	5654 18- 39-	7288 29- ++	9293 43- ++	11948 47- 13845	49- 16498	50-			
CAMBORNE 03808	012330	088 14 12	181 14 11	1528 05 03	3088 03- 12-	5692 16- 40-	7337 27- 43-	9342 43- ++	11978 52- 13845	52-				
	021130	088 16 13	200 14 09	1539 03 00	3087 01- 23-	5695 17- 35-	7330 28- 36-	9331 43- ++	11957 51- 13825	55- 16430	52-			
VALENTIA 03953	020000	014 13 11	200 13 11	1547 03 01-	3105 03- 18-	5720 14- 32-	7370 27- 35-	9390 41- ++	12030 53- 13890	51- 16530	52-			
	021200	014 16 13	212 12 10	1554 03 02-	3121 01 18-	5740 16- 24-	7390 26- 33-	9410 42- ++	12050 50- 13950	49- 16580	51-			
Ocean Weather Station 'I' 59°00'N 19°00'W	020000	12 07	157 10 05	1485 02 09-	3034 04- 18-	5610 21- 38-	7230 31- 49-	9210 44- ++	11870 47- 13770	48- 16440	48- 18800	49-		
	021200	12 06	164 11 06	1502 07 04-	3068 02- 17-	5680 15- 18-	7440 27- 32-	9340 43- ++	11980 48- 13890	47- 16570	47- 18940	46- 21180	45- 24630	42-
Ocean Weather Station 'J' 52°30'N 20°00'W	No ascent made													
	No ascent made													

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	50 860++	014	004	800	995 ++ 08 784 01- 03- 710 ++ 09- 650 11- 15- 632 ++ 17- 602 13- 19- 565 ++ 21- 512 ++ 30- 456 ++ 36- 430 ++ 41- 361 40- 49- 306 48- 281 50- 250 46- 219 43- 100 45- 053 46-	281	09500	50-
	02 32500	012	002	835	996 11 06 916 ++ 00 872 03 03- 800 03- 07- 668 11- 18- 620 12- 23- 586 ++ 30- 518 24- 36- 486 25- 37- 404 36- 46- 372 39- 49- 287 50- 250 42- 100 45- 048 45- 040 42-	287	09350	50-
STORNOWAY 03026	01 12530	017	015	844	975 ++ 07 950 ++ 04 911 ++ 00 782 04- 05- 758 04- 11- 686 ++ 18- 542 19- 31- 362 40- 50- 290 51- 250 43- 249 43- 118 45-	290	09300	51-
	25 62500	016	015	844	814 02- 03- 801 02- 05- 758 ++ 11- 685 07- 13- 662 ++ 20- 620 12- 23- 355 40- 50- 302 47- 250 44- 201 43- 336 46-	302	09070	47-
SHANWELL 03170	02 15530	016	016	782	013 12 09 980 11 05 735 03- 05- 630 11- 16- 589 15- 18- 485 24- 31- 440 ++ 36- 355 40- 48- 274 52- 260 52- 250 48- 225 43- 100 47- 068 47-	274	09770	52-
	02 686++	015	015	824	005 15 04 854 02 00 836 01 03- 788 02- 05- 731 08- 09- 728 ++ 09- 711 ++ 13- 690 ++ 14- 669 09- 21- 640 ++ 26- 507 ++ 34- 406 34- 44- 369 39- 49- 292 50- 279 51- 251 44- 250 44- 136 45- 125 48- 100 47- 037 46-	292	09290	50-
ALDERGROVE 03917	03 756++	019	017	809	782 02- 03- 655 ++ 13- 560 16- 29- 400 32- 46- 298 48- 273 50- 250 47- 232 44- 112 49- 030 48-	273	09780	50-
	15 785++	021	012	830	999 11 07 975 ++ 07 900 04 02 860 ++ 00 788 02- 03- 776 01- 05- 766 ++ 08- 723 ++ 13- 617 10- 23- 586 13- 25- 454 23- 39- 413 29- 45- 367 35- 50- 287 45- 268 50- 250 52- 245 52- 213 46- 097 47- 061 45-	245	10580	52-
AUGHTON 03322	02 6093+	018	012	797	000 13 10 964 11 08 910 08 01 880 ++ 01- 784 ++ 04- 772 ++ 07- 752 03- 06- 717 05- 09- 690 05- 10- 677 ++ 12- 639 ++ 12- 487 23- 27- 430 29- 40- 344 40- 50- 273 51- 250 46- 235 44- 089 50- 050 48-	273	09800	51-
	02 52560	020	013	833	004 ++ 04 997 12 04 901 ++ 03 870 ++ 02- 845 01 01- 796 ++ 05- 790 03- 08- 778 02- 10- 735 03- 20- 541 17- 37- 446 28- 48- 354 40- ++ 303 48- 250 46- 204 45- 118 48- 060 45-	303	09070	48-
HEMSBY 03496	61 874++	015	014	740	995 14 13 947 14 10 911 11 06 888 ++ 06 670 06- 06- 592 12- 14- 568 ++ 19- 525 17- 26- 491 21- 26- 418 30- 34- 342 40- 46- 280 51- 250 47- 182 46- 110 50- 050 50-	280	09700	51-
	03 4265+	017	015	804	988 13 10 895 06 05 880 ++ 00 718 06- 09- 698 ++ 15- 632 ++ 15- 549 18- 31- 378 37- 50- 298 49- 250 46- 188 44- 156 48- 100 49- 036 50-	298	09160	49-
CRAWLEY 03774	80 635++	017	000	741	984 ++ 09 978 15 08 963 ++ 07 929 14 09 878 ++ 06 812 ++ 01 776 02 01 698 ++ 04- 546 ++ 17- 507 ++ 23- 476 21- 32- 452 ++ 43- 395 30- 328 43- 286 49- 250 45- 243 44- 100 51-	286	09580	49-
	03 53531	019	002	780	982 ++ 06 875 ++ 03 862 05 01 853 ++ 00 706 06- 10- 681 ++ 19- 673 05- 18- 642 08- 23- 622 07- 25- 250 52- 233 55- 206 47- 104 51- 080 49-	233	10960	55-
CAMBORNE 03808	02 00900	022	011	750	991 14 10 917 ++ 04 895 ++ 04 844 ++ 02 800 02 01- 780 02 01- 750 00 05- 701 03- 12- 688 03- 19- 598 ++ 31- 451 20- 45- 367 ++ 45- 324 39- 50- 250 53- 230 57- 195 51- 115 51-	230	11100	57-
	03 58530	024	014	804	927 07 06 902 ++ 02 876 05 01 828 ++ 01- 797 ++ 05- 764 04- 06- 748 01- 15- 729 ++ 21- 696 02- 25- 548 12- 43- 515 15- 39- 473 ++ 31- 378 ++ 39- 317 40- 50- 250 53- 222 58- 202 52- 185 50- 152 55- 071 51-	222	11300	58-
VALENTIA 03953	01 38500	024	022	755	960 11 08 841 03 01- 772 02 01- 748 01- 03- 710 05- 20- 696 03- 18- 662 03- 19- 511 13- 32- 403 27- 36- 332 35- 41- 250 51- 225 57- 211 57- 198 52- 129 50- 100 52-	225	11300	57-
	02 784++	025	024	720	024 16 13 017 14 11 886 06 02 835 02 05- 810 03- 11- 800 04 02- 756 02 17- 723 00 08- 716 01- 11- 700 01 18- 660 03- 13- 632 04- 18- 400 26- 33- 250 52- 229 57- 200 50- 179 47- 146 49- 131 52- 089 49- 071 50-	229	11200	57-
Ocean Weather Station 'I' 59°00'N 19°00'W	03 684++	019	019	805	010 11 06 940 06 03 880 ++ 02- 872 01 05- 855 ++ 09- 843 03 08- 801 00 12- 768 01- 16- 663 26- 22- 558 16- 31- 421 28- 47- 392 32- 50- 362 36- 341 38- 250 53- 239 55- 228 56- 224 50- 205 47- 061 49-	228	10000	56-
	02 856++	020	020	722	933 06 04 896 04 03 885 09 00 871 ++ 05- 790 03 19- 602 06- 28- 577 ++ 25- 539 ++ 18- 527 14- 18- 505 14- 17- 471 18- 21- 458 ++ 24- 315 40- 46- 250 53- 228 57- 197 47- 075 46-	228	11100	57-
Ocean Weather Station 'J' 52°30'N 20°00'W								

STATION		MAX. WIND
LERWICK 03005	055mb 100 03 P21600m 110 04 21600m 130 07 09680/2	
STORNOWAY 03026	130mb 270 14 16300m 300 07 040mb 110 03 18500m 330 06 03655/0 07570/0 10060/1 10760/1	310 97 08800m
SHANWELL 03170	074mb 250 05 27900m 090 16 08000m 320 67 08000/0 10700/1	320 96 09130m
ALDERGROVE 03917	11000m 320 65 07700/0 11000/7 11500/1	320 97 09790m 320 78 10750m
AUGHTON 03322	054mb 210 04 22500m 080 06 11710/1	310 67 10060m 320 84 09800m
HEMSBY 03496	056mb 140 04 19400m 120 02 040mb 090 06 24900m 100 09	300 50 10450m
CRAWLEY 03774	110mb 260 27 19800m 290 01 07290/0 10860/1 15170/1 28800m 100 23 30300m 120 13 07300/0 12190/1 17400m 310 11 03780/0 10550/1 11880/1	300 85 10110m 290 80 09550m 310 83 10300m
CAMBORNE 03808	120mb 290 16 13200m 300 25 077mb 300 13 21900m 060 05	300 74 10770m
VALENTIA 03953		300 70 09880m
Ocean Weather Station 'I' 59°00'N 19°00'W	136mb 300 28 066mb 280 10 14700m 300 24 05120/0 033mb 100 03 08100m 280 40 25800m 100 04 08120/0 08550/0 09990/0 10500/1 15600/1	310 90 10000m 280 104 10380m
Ocean Weather Station 'J' 52°30'N 20°00'W		
LARKHILL 03743	02850/5 123mb 280 25	300 82 09000m 300 76 09050m

NOTES ON THE AEROLOGICAL SITUATION

The Baffin Island low remains slow moving but the centre near Labrador is moving northeast.

The low near Iceland continues to drift northeast slowly and is filling, with a trough persisting towards Madeira. The low over Sweden is deepening and moving north while the centre near the Urals moves southeast.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

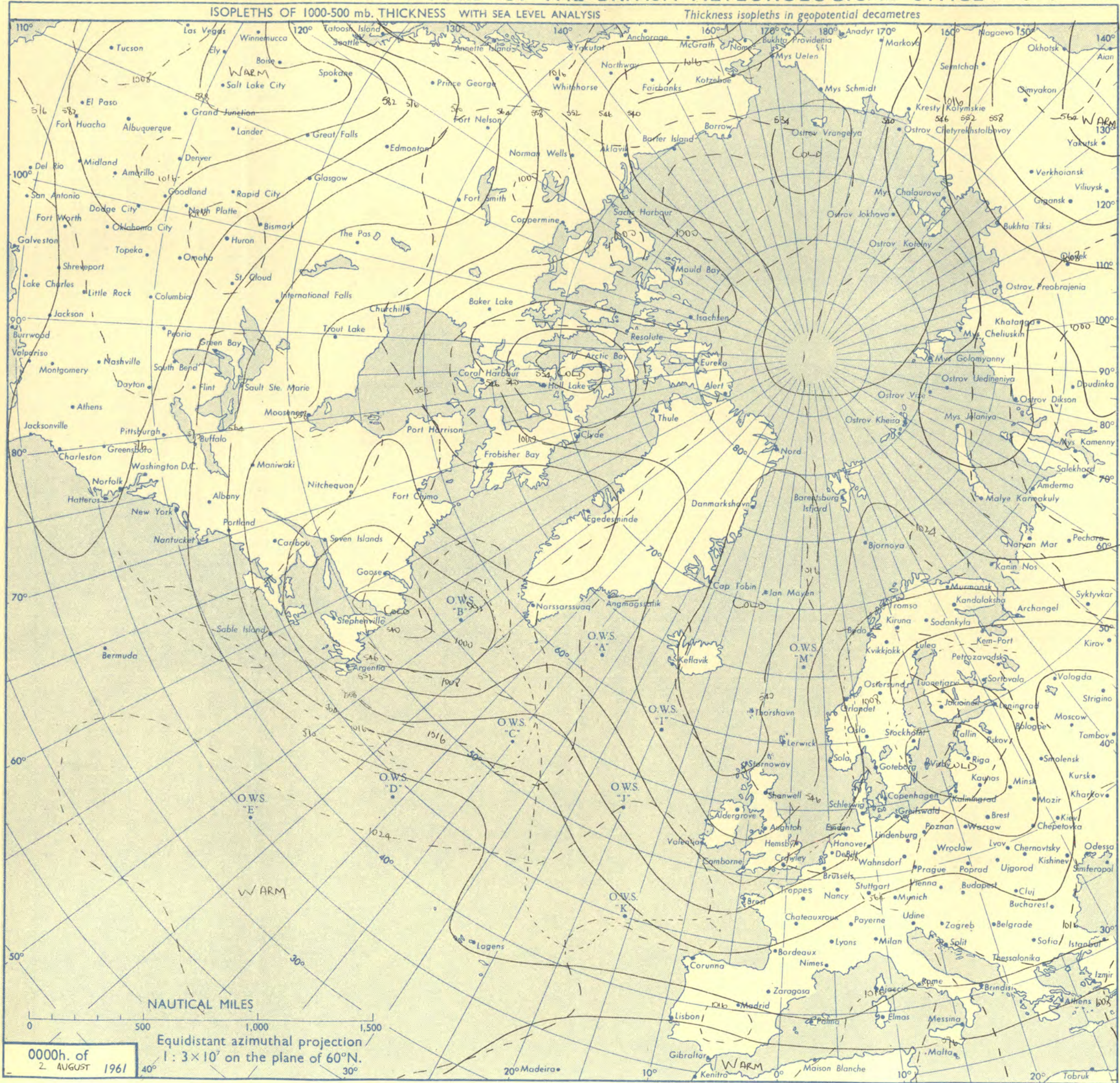
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb.	°C	mb.	mb.	°C	°C
Lower	(195)	(-59.1)	...	...	...	...

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

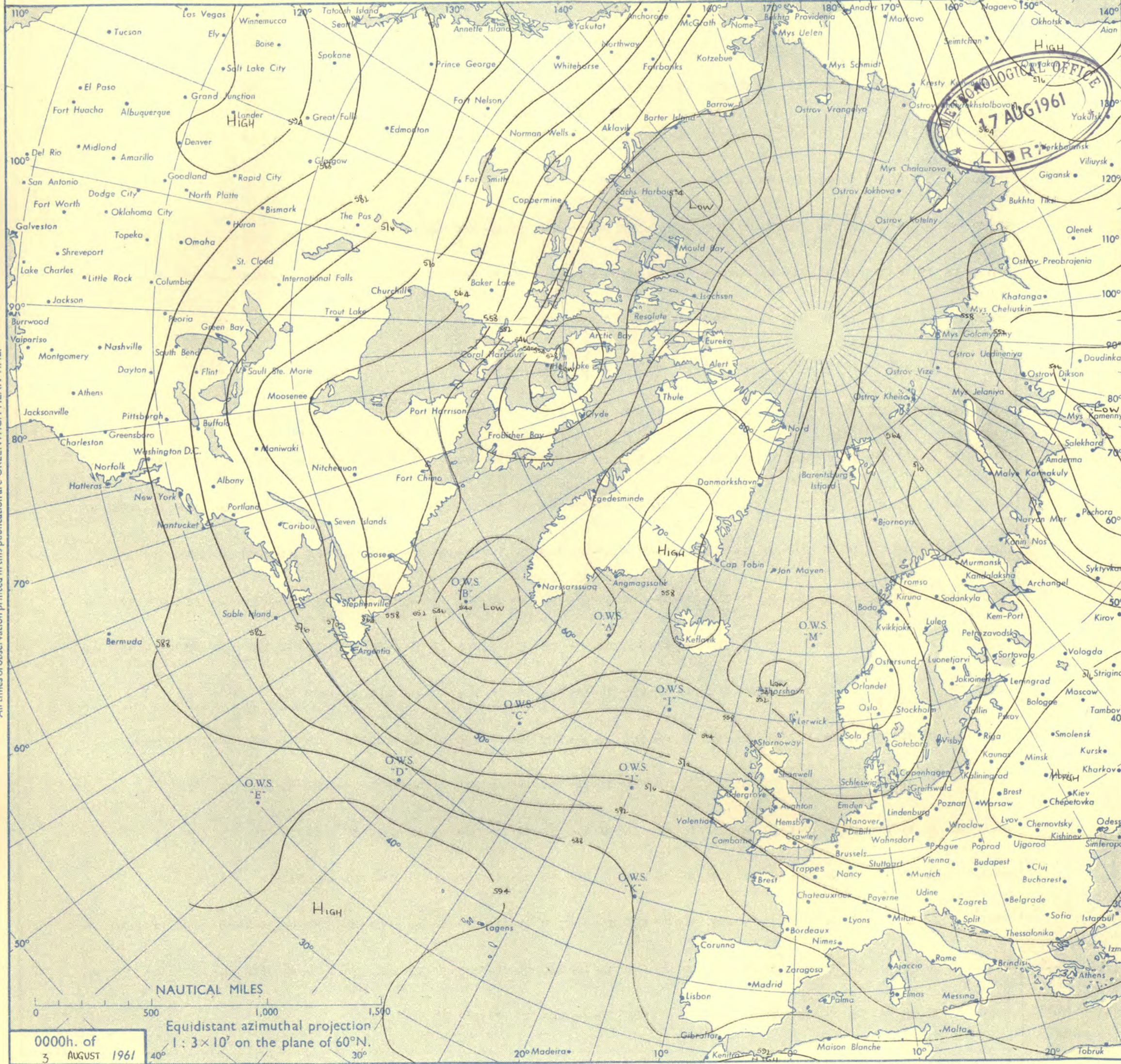
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



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

0000h. of
3 AUGUST 1961

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

STATION	YYGGgg	SURFACE		1000mb		850mb		700mb		500mb		400mb		300mb		200mb		150mb		100mb		70mb		50mb		30mb		
		gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	
LERWICK 03005	022330	082	10 08	109	10 08	1434	01- 03-	2961	09- 18-	5486	26- 37-	7061	38- 49-	9005	46- ++	11751	42- 13694	44- 16404	45- 18775	46-								
	031130	082	11 08	092	11 08	1417	00 03-	2943	09- 13-	5460	26- 37-	7049	30- 44-	9054	41- ++	11823	41- 13766	45- 16466	46- 18837	47- 21079	47-							
STORNOWAY 03026	022330	013	07 06	153	10 08	1484	01 04-	3026	06- 14-	5579	22- 38-	7191	31- 44-	9173	45- ++	11837	47- 13745	47- 16425	48- 18778	48-								
	031130	013	13 09	113	11 08	1443	00 01-	2983	07- 12-	5573	17- 20-	7217	26- 30-	9247	39- 43-	11938	48- 13823	49- 16475	49- 18831	47- 21068	45-							
SHANWELL 03170	022330	005	09 06	156	12 04	1493	02 02-	3029	07- 15-	5593	20- 37-	7212	30- 47-	9192	46- ++	11850	47-											
	031130	005	15 08	131	12 06	1463	01 02-	3006	06- 07-	5608	16- 19-	7260	25- 28-	9290	40- 43-	11975	51- 13847	51- 16495	49-									
ALDERGROVE 03917	022330	077	11 07	181	11 07	1514	00 03-	3067	02- 11-	5668	16- 22-	7309	28- 33-	9319	42- ++	11953	54- 13823	51- 16461	51-									
	031130	077	12 11	120	11 09	1457	05 02	3028	00 04-	5676	10- 16-	7360	21- 29-	9424	36- 44-	12120	54- 13965	52- 16574	51- 18907	49-								
AUGHTON 03322	022330	056	12 10	184	12 08	1522	03 02-	3073	02- 27-	5676	17- 22-	7316	28- 34-	9316	44- ++	11950	50- 13841	49- 16491	50- 18826	48- 21045	48-							
	031130	056	14 09	169	12 07	1503	02 02-	3057	01- 02-	5693	12- 16-	7361	24- 28-	9404	38- 44-	12070	58- 13894	57- 16489	54- 18800	50- 21005	49-							
HEMSBY 03496	022330	012	10 09	166	13 09	1507	03 01-	3052	05- 17-	5624	20- 35-	7245	30- 38-	9221	46- ++	11865	47- 13767	48- 16428	49- 18768	48- 20984	47-							
	031130	012	18 07	179	14 05	1517	02 02-	3073	03- 21-	5679	16- 19-	7329	26- 31-	9353	40- 44-	12017	55- 13874	51- 16511	51- 18840	50-								
CRAWLEY 03774	022330	144	11 08	191	13 07	1541	04 01	3100	02- 17--	5711	14- 37-	7362	27- 41-	9372	43- ++	12007	50- 13894	50- 16537	52- 18861	50- 21072	49-							
	031140	144	17 07	199	17 06	1544	03 00	3111	01 17-	5754	12- 16-	7428	23- 29-	9473	37- 43-	12153	56- 13973	54- 16568	54- 18869	52- 21053	51-							
CAMBORNE 03808	022330	088	11 10	217	13 11	1562	04 00	3138	02 18-	5769	14- 21-	7424	26- 33-	9439	42- ++	12069	53- 13938	52-										
	031130	088	19 11	207	15 10	1552	08 02-	3142	03 06-	5796	10- 14-	7479	21- 28-	9535	37- 42-	12214	58- 14003	61- 16523	60- 18781	55- 20936	53-							
VALENTIA 03953	030001	014	12 10	209	13 10	1556	08 08-	3138	02 13-	5790	12- 21-	7460	24- 28-	9510	39- 44-	12170	55- 14010	55- 16600	55-									
	031132	014	16 15	148	15 13	1513	10 08	3111	03 00	5790	08- 14-	7490	20- 27-	9560	36- 42-	12260	56- 14070	58- 16630	52-									
Ocean Weather Station '1' 59°00'N 19°00'W	030001		11 10	102	10 08	1436	03 01	3003	02- 04-	5600	18- 22-	7240	29- 34-	9230	47- ++	11870	50- 13740	51-										
	031200		12 12	025	- ++	++	1327	07 05	2905	01- 03-	5530	16- 21-	7170	28- 35-	9170	44- ++	11910	42- 13830	47- 16480	49- 18839	48- 21060	47-						
Ocean Weather Station '1' 53°20'N 16°7'W 52°30'N 20°00'W	022300		14 12	173	12 08	1515	05 01	3096	00 04-	5730	13- 18-	7400	23- 29-	9430	38- 47-	12080	57- 13920	55- 16510	54- 18800	52- 20990	++							
	031200		16 15	056	15 15	1430	13 13	3058	05 04	5750	07- 21-	7460	18- 27-	9570	28- 41-													

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _h C _L hC _M C _H	PRESSURE			TROPOPAUSE mb m °C
		MSL	Surf.	0°C level	
LERWICK 03005	01 58500	013	003	860	966 ++ 06 952 34 01 912 04 03- 840 02- 03- 810 02- 10- 703 09- 18- 623 14- 34- 580 ++ 38- 541 ++ 32- 510 303 08960 47-
	02 6843+	011	001	853	989 09 05 831 02- 05- 648 ++ 17- 576 18- 29- 550 ++ 34- 470 ++ 38- 444 32- 42- 394 30- 44- 350 35- 49- 300 42- 250 39- 142 46- 100 46- 074 48- 065 45- 033 48-
STORNOWAY 03026	01 12604	019	017	826	999 10 08 955 08 06 920 ++ 00 835 ++ 06- 809 01- 06- 761 03- 08- 745 03- 12- 675 ++ 13- 598 ++ 20- 554 250 10371 52-
	02 5552+	014	012	840	001 11 08 950 ++ 05 926 ++ 04 850 00 01- 804 02- 03- 785 ++ 03- 773 01- 06- 741 ++ 10- 696 07- 669 *226 11140 51-
SHANWELL 03170	01 15500	019	018	815	013 13 08 010 ++ 05 919 ++ 03 784 ++ 07- 770 03- 07- 726 06- 15- 707 07- 13- 685 ++ 19- 655 07- 24- 605 263 10040 52-
	02 3542+	016	015	830	001 12 06 940 07 05 915 05 03 865 02 01- 800 ++ 03- 775 ++ 09- 745 04- 06- 678 07- 08- 656 05- 06- 420 231 11040 50-
ALDERGROVE 03917	01 655++	022	013	788	984 10 06 818 03- 06- 808 02 02- 791 ++ 04- 712 01- 10- 664 05- 15- 608 08- 18- 493 16- 21- 441 23- 28- 213 11580 57-
	63 6632+	014	005	700	993 10 08 903 05 02 891 06 03 678 01- 05- 651 01- 05- 530 08- 13- 360 26- 33- 273 41- 251 47- 250 47- 202 177 12880 55-
AUGHTON 03322	02 58500	022	015	814 742	003 ++ 08 997 12 08 894 ++ 03 851 03 02- 783 03- 04- 773 01 10- 770 ++ 13- 702 02- 27- 622 07- ++ 548 12- 244 10660 56-
	60 5152+	020	013	801 726	989 11 06 956 ++ 05 895 05 01 834 ++ 02- 825 ++ 07- 760 03- 07- 745 00 02- 674 01- 02- 489 13- 16- 437 20- 27- 292 40- 46- 250 48- 202 58- 171 56- 160 59- 143 56- 081 51- 044 49- 038 45- 202 12000 58-
HEMSBY 03496	01 14600	020	019	806	004 13 09 960 ++ 07 939 ++ 04 757 04- 06- 710 04- 16- 690 ++ 16- 644 ++ 20- 608 10- 26- 440 ++ 40- 408 29- 38- 338 40- 46- 250 55- 247 56- 229 50- 204 47- 082 50- 044 46- 247 10510 56-
	02 785++	021	020	821 737	003 15 06 871 03 01 821 00 02- 792 ++ 12- 782 02 13- 739 00 18- 668 ++ 23- 645 07- 20- 628 ++ 12- 616 06- 193 12240 56-
CRAWLEY 03774	02 00900	023	006	741	998 14 05 961 ++ 03 870 ++ 03 815 02 01- 810 ++ 01- 796 02 08- 679 03- 20- 654 05- 23- 492 14- 37- 315 ++ 50- 299 43- 250 52- 224 57- 213 57- 201 50- 186 49- 101 52- 050 49- 224 11300 57-
	03 785++	023	006	688	998 ++ 05 933 10 02 860 03 00 817 01 01- 797 03 10- 762 04 15- 708 01 21- 692 00 14- 681 ++ 06- 645 ++ 05- 625 03- 07- 572 07- 10- 520 ++ 15- 509 ++ 16- 483 13- 18- 285 40- 46- 250 47- 189 58- 172 59- 146 53- 125 56- 093 53- 043 51- 189 12510 58-
CAMBORNE 03808	11 00901	026	015	676	995 13 11 883 ++ 01 830 02 01- 826 ++ 00 811 06- 08- 802 ++ 12- 762 04 16- 735 04 19- 549 ++ 23- 528 ++ 18- 483 ++ 23- 465 17- 25- 440 ++ 30- 416 ++ 32- 311 40- 48- 250 52- 219 57- 209 56- 198 52- 166 50- 137 53- 219 11500 57-
	02 48572	025	014	668	998 14 09 880 05 03 864 05 03 844 09 06- 806 09 13- 790 08 15- 753 ++ 03- 714 ++ 01- 700 03 06- 688 ++ 04- 652 02- 06- 637 00 06- 618 ++ 06- 427 18- 23- 283 40- 45- 250 46- 199 58- 163 63- 119 59- 103 61- 087 56- 042 52- 163 13480 63-
VALENTIA 03953	03 52500	025	023	680	998 13 10 922 08 05 856 08 08- 741 05 15- 686 01 03- 577 05- 10- 560 05- 14- 368 27- 32- 250 48- 221 55- 082 55- 074 53- 221 11500 55-
	60 863++	017	016	649	016 16 15 938 12 10 913 11 07 862 11 09 649 00 04- 618 00 12- 588 01- 10- 530 08- 13- 515 07- 12- 788 37- 168 13400 60-
Ocean Weather Station '1' 59°00'N 19°00'W	61 5732+	012	012	735	884 ++ 03 869 04 01 851 03 01 839 05 03 653 05- 07- 581 12- 16- 494 18- 22- 483 18- 23- 334 40- 46- 271 53- 258 54- 231 50- 113 51- 271 09900 53-
	61 873++	997	997	716	997 12 12 976 ++ 09 960 10 08 893 09 07 597 07- 09- 577 10- 13- 526 13- 16- 507 ++ 19- 484 ++ 27- 437 23- 300 09200 44-
Ocean Weather Station '1' 53.2°N 16.7°W 52°30'N 20°00'W	3842+	020	020	700	597 06- 12- 584 06- 11- 423 20- 26- 294 40- 48- 250 49- 225 55- 207 58- 183 55- 125 56- 058 51- 120 15300 52-
	862++	006	006	605	006 16 15 955 15 15 938 15 15 893 16 16 833 12 12 813 12 11 732 07 05 672 04 01 572 02- 09- 519 05- 20- 436 13- 26- 423 14- 25- 400 18- 27- 371 20- 32- 295 28- 42- 295 +++++ 28-

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	022330	T	280 11	+++ ++	300 21	290 21	300 20	290 19	280 20	290 29	300 35	300 35	290 27	300 16	310 13	300 09	010 04				
	030530	P	280 15	+++ ++	290 22	280 20	280 21	290 24	290 27	280 39	290 81	290 72	290 34	290 28	300 21	300 10	020 04	110 06			
	031130	T	230 13	+++ ++	260 20	270 20	270 20	270 28	280 28	280 40	290 87	290 97	300 67	290 41	300 22	270 09	240 03	200 02			
	031730	P	220 07	+++ ++	230 11	260 09	260 13	290 14	290 27	290 42	290 67	280 98	280 85	290 58	290 41	280 15	240 05	140 03			
STORNOWAY 03026	022330	T	270 03	+++ ++	280 12	280 13	280 16	280 23	300 29	300 35	310 64	310 82	310 82	310 52	310 36	300 27					
	030530	P	220 09	+++ ++	260 15	260 20	260 18	280 20	290 29	290 48	290 68	290 100	300 116	300 73	300 45	300 21					
	031130	T	240 06	+++ ++	200 16	230 14	230 13	260 14	270 29	280 46	280 86	290 111	290 150	300 79	290 37	290 16	240 05	100 04			
	031800	P	120 10	+++ ++	120 17	130 15	180 20	220 23	250 44	250 52	260 65	260 111	270 123	270 96	270 52						
SHANWELL 03170	022330	T	280 07	+++ ++	310 12	300 11	280 14	290 25	300 28	310 41	310 63	310 80	310 74	310 52							
	030530	P	190 06	+++ ++	270 10	260 13	270 13	280 23	290 34	300 43	300 72	310 93	310 114	310 67	320 39	310 24	320 07	050 04	090 06		
	031130	T	230 15	+++ ++	250 16	250 15	240 17	270 21	270 29	290 47	290 68	300 104	310 130	310 93	310 42	320 15	P320 09				
	031745	P	110 08	+++ ++	200 24	210 22	230 22	260 48	280 62	280 76	270 74	280 93	290 116	280 100	280 58						
ALDERGROVE 03917	022330	T	260 05	+++ ++	290 10	290 13	290 17	290 22	300 35	300 44	300 52	320 81	320 104	330 85	320 50	310 22					
	030530	P	220 10	+++ ++	250 17	270 16	250 15	240 25	270 33	280 45	300 67	310 88	310 114	320 115	320 54	300 28					
	031130	T	170 19	+++ ++	190 32	230 37	240 45	270 43	270 51	280 51	290 61	290 82	300 85	300 100							
	031745	P	220 22	+++ ++	250 50	260 54	260 54	270 61	270 55	270 61	280 72	280 80	280 76	280 81	280 61						
AUGHTON 03322	022330	T	280 03	+++ ++	300 17	300 20	310 19	320 24	310 35	310 54	310 58	320 71	320 83	320 59	320 37	300 13	310 07	360 05			
	030530	P	220 02	+++ ++	280 16	280 22	280 23	280 23	290 29	300 39	310 66	310 71	320 97	330 90	320 49						
	031130	T	200 08	+++ ++	240 17	250 22	260 33	280 38	290 45	300 51	300 57	310 81	320 93	330 109	320 54	320 20	320 08	040 02			
	031730	P	150 12	+++ ++	240 47	260 51	270 50	270 53	280 57	280 54	290 64	300 66	300 78	310 93	300 48						
HEMSBY 03496	022330	T	270 07	+++ ++	320 18	290 17	290 15	300 24	310 33	310 40	320 68	320 77	310 69	310 49	300 25	290 12	100 04	070 09			
	030530	P	270 08	+++ ++	290 16	290 21	310 20	310 23	310 34	310 49	320 60	330 84	330 109	330 52	310 35	310 23	340 10				
	031130	T	270 07	+++ ++	240 10	270 20	270 21	260 22	280 33	290 45	310 54	320 81	330 102	340 99	330 45	310 20	010 07				
	031730	P	210 11	+++ ++	230 23	250 28	260 32	280 39	290 45	290 50	300 53	310 69	320 92	330 94	320 57	310 25	350 14	130 03			
CRAWLEY 03774	022330	T	000 00	+++ ++	310 11	310 14	320 19	310 21	310 32	320 47	310 48	320 57	320 60	310 52	310 40	310 19	320 13				
	030530	P	000 00	+++++	300 08	280 11	280 14	300 23	300 33	310 41	320 50	330 68	340 82	330 69	320 37	320 31	320 10	080 09	070 16		
	031110	P	260 05	+++ ++	240 13	270 15	290 17	290 24	300 38	300 43	320 44	330 66	340 90	350 103	330 50	330 23	330 08				
	031730	P	220 10	+++ ++	240 22	260 24	270 31	290 33	290 35	290 41	310 53	320 58	330 73	330 86	330 40	330 26	330 11	070 05			
CAMBORNE 03808	022330	T	000 00	+++ ++	300 11	330 14	310 18	320 21	300 23	310 35	320 41	340 50	350 67	330 63	320 43	P310 28	310 11	000 00			
	030530	P	170 04	+++ ++	240 08	280 09	300 16	300 22	300 26	300 35	320 45	320 52	330 77	350 101	330 55	320 33	320 15				
	031130	T	190 15	+++ ++	240 17	250 18	270 24	280 29	310 34	300 33	310 44	330 56	330 72	340 78	350 57	330 21	340 11	040 03			
	031730	P	240 18	+++ ++	250 30	260 28	270 31	280 30	280 37	290 40	300 43	310 47	310 60	300 57	310 37	300 20	310 09	030 04			
VALENTIA 03953	030000	T	000 00		250 03	250 14	250 13	260 14	290 23	310 31	300 36	310 51	320 67	320 86	330 102	330 62					
	031132	T	200 18		210 26	240 42	250 38	250 37	270 41	270 46	290 45	290 54	290 58	290 70	300 72	290 45	290 33				
Ocean Weather Station '1' 59°00'N 19°00'W	030001	T	120 17	+++ ++	150 26	160 25	210 17	240 20	250 25	260 31	270 46	260 62	250 85	270 58	280 37						
	030600	P	090 30	+++ ++	140 29	160 16	200 11	240 12	230 23	240 34	240 47	260 86	250 119	250 90	260 47	300 23	280 08	250 03			
	031200	T	110 20	+++ ++	120 20	110 17	110 18	150 12	200 15	200 10	230 19	230 32	240 65	250 68	230 42	260 21	170 12	190 09	190 09		
	031800	P	270 10	+++ ++	300 25	300 31	290 28	280 25	250 28	240 23	230 16	230 29	240 46	230 55	240 39	240 18	240 13	160 04			
53°00'N 17°00'W 53°00'N 17°00'W 53°00'N 17°00'W 53°00'N 17°00'W 53°00'N 17°00'W	022330	T	220 13	210 14	200 22	220 25	230 25	260 42	280 34	280 41	280 45	280 53									
	030600	P	220 30	+++ ++	250 35	260 35	270 37	290 47	290 47	290 45	290 55	290 70	+++ ++	290 73	290 49						
	031200	T	230 34	230 34	240 45	240 48	250 52	260 51	270 58	260 60	260 72										
	031800	P	260 30	+++ ++	270 31	260 41	260 46	260 50	250 62	250 62	250 85	260 112									
LARKHILL 03743	030630	P	250 02	+++ ++	280 10	290 14	300 18	300 23	300 27	300 38	320 53	320 64	330 88	350 99	320 50	330 31					
	030932	T	230 09	+++ ++	260 13	270 18	290 16	290 27	300 38	300 44	320 49	330 75	340 97	340 88	330 47	340 23	340 07				

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
031313	58°2'N 26°7'W	003 996 760	061 08 07	027 07 07	893 03 00	1353 01 01	1844 02 08	01- 13-	2908 05- 17-	09- ++	4100 15- ++	18- ++	5456 23- ++	
Cloud :— 7/8 Sc. 900 to 3000ft, 5/8 Sc. 4000 to 4500 ft, 2/8 Ac. 18000 to 18000ft, 1/8 Cs. 24000ft to TNG. Inversion Levels :— 850mb to 800mb 01°C to 024°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
031435	60°8'N 20°8'W	000 993 779	061 09 09	000 06 06	866 04 04	1326 02 02	1817 01 01	02- 02-	2083 02- 02-	04- ++	4100 08- ++	15- ++	5486 15- ++	
Cloud :— 6/8 St. 800ft to TNG. 8/8 Ns. 3000 to 12000ft. 7/8 Ac 13000 to 15000ft. 1/8 Ac 18000 to 18000ft, 7/8 Cs. 20000ft, to TNG. Inversion Levels :— Isothermal Levels :— 750mb to 700mb -014°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	358mb 310 54 065mb 340 04 22800m 040 03 05750/0 09250/1 039mb 110 08 23100m 120 07 08100m 290 91 05570/0 07700/0 11600/1 12500/1	290 90 08580m 300 110 08100m 280 104 09400m
STORNOWAY 03026	075mb 300 11 17900m 330 18 05820/0 09070/0 10230/0 10770/1 11320/1 11520/1 12640/1 444mb 290 59 036mb 110 07 06790/0 08330/0 08580/0 09190/0 10540/1 12010/1 13140/1	300 83 09330m 300 127 10470m 290 159 10690m 270 132 10240m
SHANWELL 03170	180mb 310 45 24600m 080 08 06750/0 11430/1 11880/1 164mb 300 54 120mb 290 35 19640m 010 10 02430/0 02740/0 12800/1	310 85 08400m 310 120 10310m 310 140 10870m 290 124 10980m
ALDERGROVE 03917	623mb 300 27 128mb 316 33 12680m 320 67 08400/0 09200/0 10050/0 11850/1	320 130 11130m 320 127 11580m 310 119 11470m 280 87 12710m
AUGHTON 03322	12300m 330 72 14700m 320 47 06880/0 09440/0 10780/0 11760/1 12240/1 359mb 300 69 176mb 330 78 044mb 100 04 00370/3 12250/1	320 84 10700m 330 126 11580m 320 117 11650m 310 97 11820m
HEMSBY 03496	11360m 330 81 08810/0 10150/0 11110/1 11600/1 12070/1 184mb 320 67 22500m 060 03 12560/1	320 80 09200m 330 113 10390m 340 123 11100m 320 104 11610m
CRAWLEY 03774	11790/1 12140/1 09360/0 10270/0 12400/1 08190/0 09240/0 10140/0 12480/1 12930/1	315 61 10750m 340 96 10440m 350 107 11750m 330 87 11700m
CAMBORNE 03808	23400m 030 09 12900m 350 60 19200m 330 12 10020/0 11000/0 11480/0 11980/1 12420/1 125mb 320 42 21900m 040 07 13130/1	340 78 11400m 350 109 11740m 340 82 13250m 310 62 10490m
VALENTIA 03953		330 105 11860m 300 79 11640m
Ocean Weather Station 1 59°00'N 19°00'W	230mb 260 77 115mb 270 17 12900m 250 60 14400m 280 37 01500/1 04340/0 07450/0 09890/0 11060/1 12860/1 084mb 230 10 041mb 160 06 21300m 100 03 09020/0	260 88 10440m 250 123 10450m 250 79 11750m
53.6°N 14.2°W 53.4°N 15.7°W 53.2°N 16.7°W 53.0°N 17.1°W 52.30°N 20.00°W	657mb 280 44 286mb 280 56 757mb 290 45 272mb 290 83 220mb 290 81 181mb 290 75 138mb 290 45 330mb 260 85 454 mb 250 62 267mb 260 92	
LARKHILL 03743	17370m 310 23 12450/7 052mb 100 17	340 112 11500m 340 134 11500m

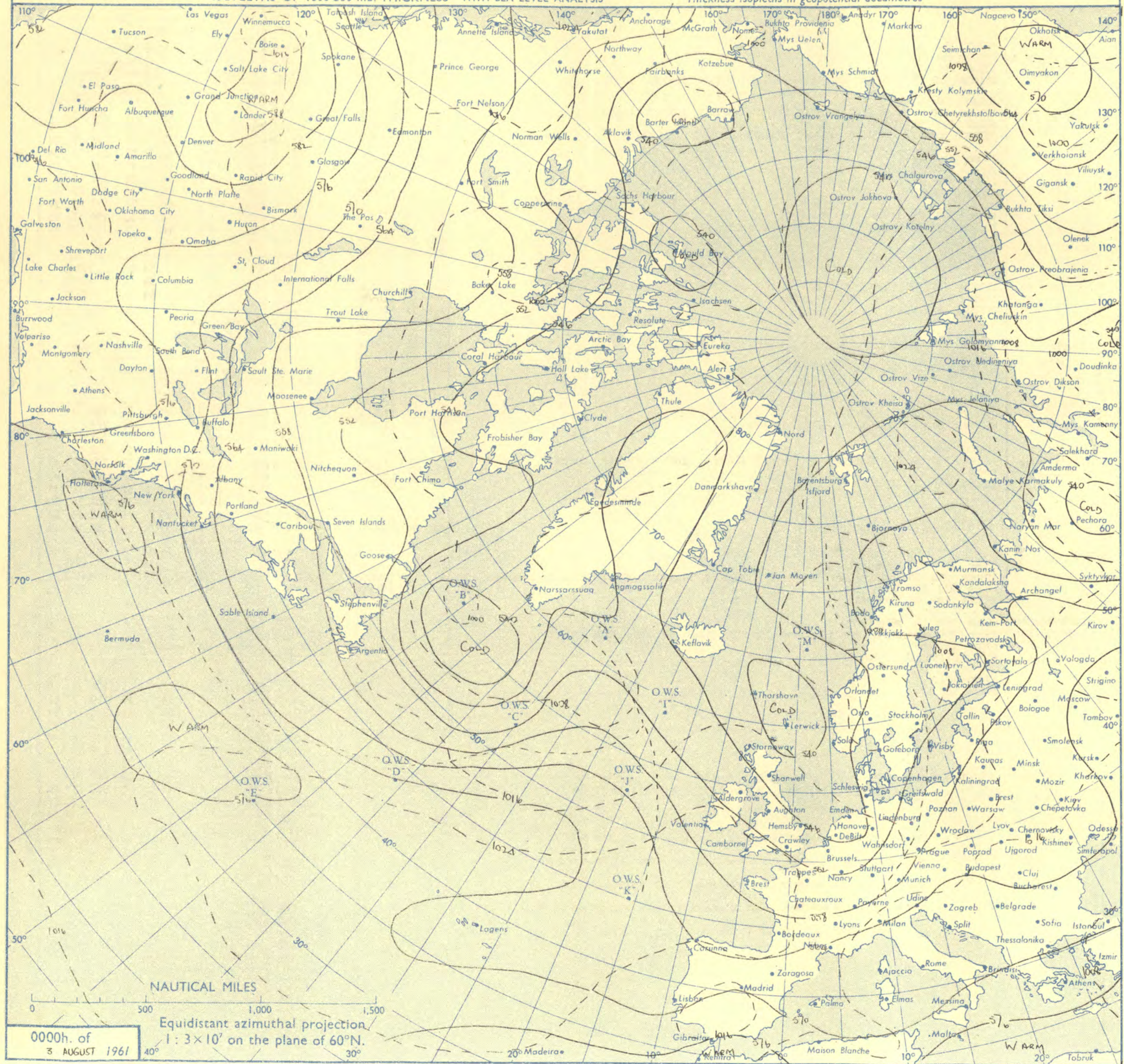
NOTES ON THE AEROLOGICAL SITUATION

The only noteworthy development is a tendency for a jet stream to develop over the British Isles from the west while the main troughs and ridges continue their slow progress. This development is reflected in the weather, which deteriorates with widespread rainfall after the recent anticyclonic interlude.

AVERAGE AND EXTREME VALUES 1951-55							
AUGUST							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.			Wind*	
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22435	-47.1	-44	-56	201	3	7
60	19760	-48.1	-41	-54	213	4	9
100	16400	-48.3	-42	-57	235	9	14
150	13730	-48.4	-42	-63	242	13	24
200	11845	-49.7	-40	-64	243	16	34
300	9190	-44.7	-34	-53	232	17	4
400	7205	-30.0	-19	-39	230	15	33
500	5580	-18.4	-10	-27	229	13	27
700	2985	-2.7	4	-10	230	10	20
850	1425	4.8	16	-2	229	7	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		243	-54.8		10645		
Max.		367	-38		13990		
Min.		150	-66		7590		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.			Wind*	
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22425	-49.2	-45	-56	158	2	6
60	19780	-50.8	-43	-57	224	3	9
100	16470	-52.4	-43	-62	267	13	18
150	13845	-52.3	-42	-69	273	23	31
200	11980	-52.4	-40	-63	274	29	43
300	9325	-42.4	-34	-52	271	27	45
400	7320	-27.2	-18	-37	270	23	36
500	5680	-15.7	-8	-24	267	20	30
700	3060	0.1	7	-6	262	14	22
850	1480	7.7	17	2	260	10	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		226	-55.9		11245		
Max.		343	-41		14235		
Min.		145	-67		8230		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.			Wind*	
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22330)	(-55.6)	...	...	100	14	15
60	19780	-60.8	-54	-68	110	7	11
100	16655	-66.8	-58	-74	250	21	24
150	14175	-60.2	-53	-70	255	41	45
200	12345	-50.9	-44	-59	265	44	49
300	9620	-35.2	-29	-44	275	31	37
400	7555	-20.4	-16	-27	285	23	29
500	5865	-8.6	-4	-14	290	19	24
700	3170	8.9	13	1	310	15	19
850	1540	18.4	27	12	310	7	11
Tropo- pause		Average	Max.	Min.	Max.	Min.	
		Press.	Press.	Press.	Temp.	Temp.	
Upper	mb.	°C	mb.	mb.	°C	°C	
Lower	(195)	(-59.1)	...	...	...	...
* V _R = Vector average wind. V _S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.							
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.							
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.							

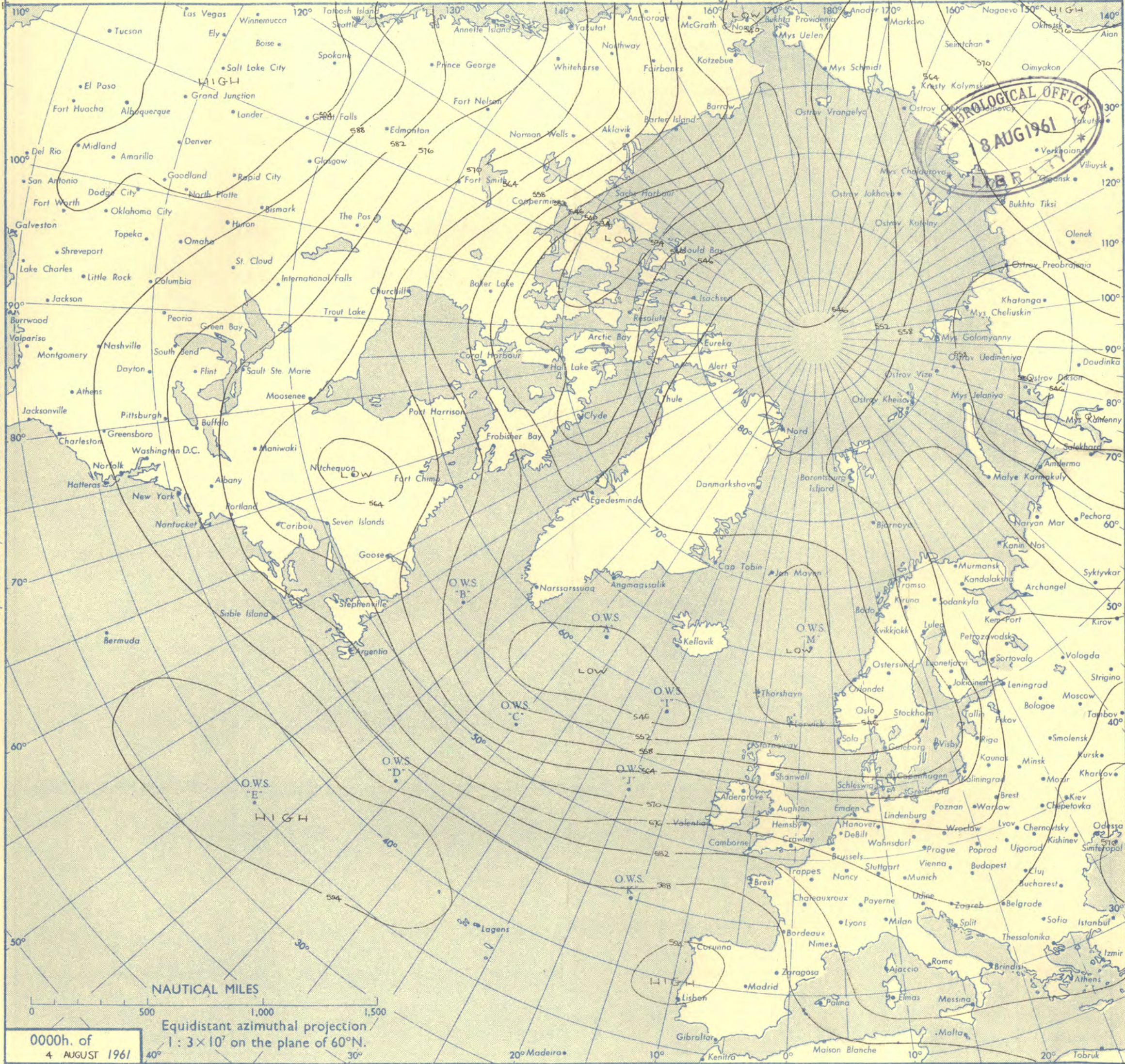
ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



STATION	YYGGgg	SURFACE		1000mb			850mb			700mb			500mb			400mb			300mb			200mb		150mb		100mb		70mb		50mb		30mb	
		gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C		
LERWICK 03005	032330	082	09 08	024	++ ++	1354	01 01	2888	07 20	5453	18 37	7083	29 34	9067	47	11802	41	13729	46	16409	47												
	041130	082	14 10	010	++ ++	1346	02 02	2886	05 22	5459	19 24	7084	31 42	9056	47 ++	11743	42	13679	45	16383	45	18751	46	20978	47	24360	48						
STORNOWAY 03026	040020	013	11 10	012	++ ++	1332	07 06	2911	01 02	5526	16 34	7167	29 45	9158	45 ++	11893	41	13814	47	16490	47												
	041130	013	14 08	016	14 09	1350	02 00	2913	03 18	5504	18 30	7129	30 42	9111	45 ++	11818	43	13747	45	16459	45	18836	43	21102	43								
SHANWELL 03170	032330	005	12 11	018	++ ++	1348	10 08	2945	03 02	5585	14 33	7239	25 43	9266	39 ++	11979	51	13854	53	16487	50												
	041130	005	17 12	038	16 07	1385	03 00	2947	02 22	5566	17 39	7206	28 47	9197	46 ++	11881	46	13785	48	16432	50	18755	51	20941	51								
ALDERGROVE 03917	032330	077	15 14	043	++ ++	1407	10 08	3002	06 21	5669	12 32	7333	25 43	9378	37 ++	12086	51	13942	52	16554	53	18890	49										
	041130	077	16 10	080	15 10	1425	04 02	2985	00 14	5601	15 35	7247	27 47	9261	42 ++	11949	46	13836	52	16466	53	18782	51	20976	49	24341	47						
AUGHTON 03322	032330	056	16 15	063	16 15	1435	11 09	3038	04 03	5691	11 26	7373	21 29	9431	36 44	12157	51	14000	58	16565	51												
	041130	056	16 13	103	15 11	1455	06 03	3039	02 32	5680	13 45	7342	25 44	9380	38 49	12078	49	13937	57	16543	54	18857	49	21075	47								
HEMSBY 03496	032330	012	15 11	100	15 12	1465	11 09	3068	04 01	5727	11 14	7406	22 27	9461	36 47	12166	54	13994	58	16539	56	18822	54										
	041130	012	25 13	094	21 11	1469	09 06	3062	05 24	5712	12 44	7376	25 44	9424	38 ++	12110	53	13944	57	16510	58	18787	53	20965	52								
CRAWLEY 03774	032330	144	15 13	149	15 13	1514	12 10	3117	05 03	5795	10 17	7485	19 34	9551	36 47	12243	55	14060	59	16597	57	18879	52										
	041136	144	17 17	138	++ ++	1511	12 03	3118	05 13	5789	10 43	7471	20 32	9537	36 45	12245	52	14082	57	16639	57	18916	52	21101	51	24424	51						
CAMBORNE 03808	032330	088	15 13	168	15 13	1532	12 10	3147	07 01	5824	09 19	7514	20 33	9579	36 48	12271	55	14077	61														
	041130	088	18 18	151	17 16	1528	12 11	3137	05 00	5811	10 25	7491	22 34	9546	36 44	12249	53	14081	58														
VALENTIA 03953	032330	014	16 15	120	16 15	1486	11 08	3090	05 29	5750	11 14	7430	21 25	9500	35 47	12210	53	14050	59	16590	57	18880	53	21050	51								
	041130	014	18 12	134	15 10	1482	06 04	3072	02 22	5730	12 28	7390	23 28	9440	38 44	12130	53	13990	55	16570	54												
Ocean Weather Station '1'	040000		11 10	025	++ ++	1313	04 03	2865	05 13	5430	22 30	7040	34 42	8990	46 ++	11710	43	13640	43	16360	45	18730	47										
	041200		11 09	004	++ ++	1326	02 01	2864	06 14	5410	24 34	7000	35 44	8930	48 ++	11660	41	13600	43	16330	42												
59°00'N 19°00'W Ocean Weather Station '1'	032300		14 14	108	14 13	1460	08 13	3049	03 25	5690	12 38	7350	25 48	9390	37 58	12080	49	13950	52	16570	52	18890	51	21080	48	24460	45						
	041100		16 14	134	15 13	1490	06 06	3077	02 13	5720	13 38	7380	25 48	9400	40 ++	12100	46	14000	49	16640	49	18990	47	21240	++								
52°30'N 20°00'W																																	

STATION	ww N _h C _L hC _M C _H	PRESSURE			TROPOPAUSE
		MSL	Surf.	0°C level		mb m °C
LERWICK 03005	01 28532	003 993 830	968 09 07 930 ++ 04 905 ++ 02 783 03- 04- 754 ++ 12- 672 ++ 24- 480 20- 38- 465 ++ 40- 394 30- 35- 336 40- 45- 284 49- 250 42- 216 39- 137 49- 100 47- 094 47-	284 09410 49- 137 14320 49-	
	03 785++	001 991 827	974 10 05 956 ++ 03 792 02- 04- 790 ++ 04- 763 ++ 15- 823 04- 19- 620 ++ 31- 597 ++ 29- 574 ++ 18- 555 ++ 17- 513 18- 21- 506 ++ 22- 489 19- 28- 448 ++ 39- 343 40- 50- 258 52- 250 49- 227 44- 100 45- 030 48-	258 10040 52-	
STORNOWAY 03026	51 864++	998 997 711	906 07 06 823 06 05 669 03- 04- 635 05- 06- 593 ++ 22- 492 17- 35- 357 35- 50- 286 47- 254 46- 250 44- 286 09470 47- 243- 40- 212 39- 183 45- 112 49- 092 46- 075 47-	286 09470 47- 183 12470 45-	
	03 755++	002 000 741	965 09 04 850 02 00 834 06 04- 829 ++ 07- 771 ++ 16- 691 ++ 19- 670 05- 15- 653 05- 18- 620 ++ 19- 546 ++ 275 09700 49- 29- 444 ++ 35- 411 28- 40- 354 37- 50- 275 49- 256 48- 250 46- 237 42- 127 46- 112 43- 096 46- 032 43- 096 16710 46-	275 09700 49- 096 16710 46-	
SHANWELL 03170	02 854++	999 998 660	959 10 08 904 13 11 807 08 06 787 08 05 777 ++ 04 725 03 01 715 04 01 685 02 05- 622 04- 09- 601 04- 194 12190 52- 546 10- 25- 404 25- 43- 358 32- 46- 326 35- 50- 276 42- 250 45- 229 46- 194 52- 185 49- 147 53- 139 51- 100 50- 095 49- 085 50-	194 12190 52-	
	02 55500	005 004 732	990 14 05 825 02 01 800 04 08- 780 ++ 14- 732 ++ 17- 707 ++ 21- 686 03- 14- 674 01- 16- 669 01- 22- 613 05- 32- 456 21- 43- 357 35- 50- 300 46- 259 49- 232 46- 105 52- 100 50- 081 52- 046 52-	259 10150 49-	
ALDERGROVE 03917	20 862++	005 996 621	880 ++ 07 800 ++ 04 760 ++ 03- 745 04 04- 735 ++ 04- 713 06 20- 670 05 22- 530 ++ 38- 470 16- 33- 450 ++ 34- 394 25- 43- 354 29- 48- 258 45- 220 47- 177 54- 127 52- 102 55- 096 49- 070 49-	177 12880 54-	
	02 756++	010 000 788 696	987 14 10 894 06 04 861 05 03 770 ++ 02- 767 01- 04- 749 03 11- 745 ++ 14- 670 ++ 14- 639 03- 17- 554 12- 27- 538 12- 29- 343 34- ++ 296 43- 250 48- 233 49- 200 46- 151 53- 123 50- 095 54- 080 49- 073 52- 030 47-	233 10910 49- 151 13800 53-	
AUGHTON 03322	61 5732+	008 001 634	984 ++ 13 875 11 09 838 11 09 827 10 08 662 02 01 606 02- 04- 585 06- 09- 576 08- 15- 568 08- 21- 549 08- 26- 518 ++ 35- 473 13- 19- 430 17- 25- 334 31- 37- 271 40- 49- 250 43- 203 51- 140 60- 131 60- 100 51- 082	140 14440 60-	
	02 785++	012 006 665	990 14 10 862 06 04 820 05 03 807 07 09- 792 ++ 21- 772 06 31- 727 ++ 27- 682 ++ 35- 529 10- 43- 464 17- 42- 439 ++ 35- 403 24- 44- 344 32- 44- 289 40- 250 48- 247 49- 207 48- 148 58- 110 50- 098 55- 082 55- 082 49- 078 52- 043 45-	247 10710 49- 148 14030 58- 098 16660 55-	
HEMSBY 03496	21 864++	012 010 650	999 15 12 931 10 08 878 14 12 833 10 08 790 ++ 06 748 07 02 702 ++ 02 685 ++ 04- 670 ++ 02- 630 ++ 04- 498 11- 14- 319 34- 43- 289 37- 49- 250 45- 200 54- 129 60- 100 56- 060 52-	129 14940 60-	
	01 31500	011 009 646	996 20 10 900 ++ 09 880 ++ 06 848 ++ 05 815 06 03 794 ++ 01 770 ++ 09- 762 09 09- 679 03 30- 603 04- 36- 493 13- 45- 400 25- 44- 370 26- 41- 303 37- 49- 250 47- 227 52- 185 53- 168 57- 101 58- 062 52- 036 51-	168 13220 57-	
CRAWLEY 03774	02 8087+	018 001 620	936 11 09 921 12 10 872 10 08 851 12 10 830 ++ 07- 801 08 06 758 08 06 742 ++ 05 727 ++ 03- 712 ++ 00 676 ++ 09- 660 ++ 04- 656 03 09- 624 ++ 05- 599 02- 10- 581 02- 17- 572 ++ 25- 539 ++ 16- 528 ++ 22- 513 ++ 17- 485 11- 17- 468 ++ 23- 409 18- 33- 319 33- 45- 285 ++ 50- 250 46- 213 53- 137 62- 067 52-	137 14620 62-	
	50 872++	016 999 639	995 ++ 15 977 16 15 878 11 10 872 ++ 11 862 13 08 857 12 03 795 10 06 769 ++ 04 722 ++ 12- 717 06 12- 650 01 16- 635 ++ 07- 612 ++ 09- 609 02- 14- 588 02- 37- 461 15- 46- 437 ++ 48- 402 20- 32- 361 ++ 39- 342 ++ 39- 275 40- 50- 250 44- 215 52- 155 58- 087 57- 076 52- 030 51-	155 13870 58-	
CAMBORNE 03808	02 00900	020 009 619	884 10 08 878 ++ 06 873 12 08 835 11 09 823 13 11 732 08 05 721 09 05 690 ++ 01- 676 ++ 01 632 ++ 05- 574 04- 14- 565 ++ 12- 558 ++ 13- 518 ++ 15- 499 ++ 19- 460 14- 26- 447 13- 25- 295 37- 49- 250 45- 209 54- 135 64- 109 61-	(135 14740 64-)	
	50 862++	018 007 621	986 16 15 932 14 13 904 14 13 777 09 07 763 ++ 04 703 ++ 00 640 01 02- 598 01- 16- 542 ++ 23- 532 ++ 20- 480 12- 28- 453 ++ 27- 416 20- 34- 371 26- 34- 275 40- 48- 250 45- 220 52- 150 58- 130 59-	150 14081 58-	
VALENTIA 03953	61 862++	014 012 625	956 13 12 870 11 10 844 11 07 774 07 06 756 08 19- 678 05 32- 569 06- 40- 521 10- 13- 453 15- 34- 436 16- 30- 376 24- 37- 276 40- 250 44- 177 55- 172 54- 149 60- 091 54- 088 56- 050 51- 040 51-	149 14100 60-	
	03 28534	016 014 660	991 14 10 931 09 06 861 05 03- 811 08 13- 775 09 15- 708 03 20- 537 08- 30- 448 19- 24- 422 20- 25- 321 34- 40- 291 39- 45- 265 42- 250 46- 233 50- 192 54- 178 51- 165 54- 110 56- 101 54-	192 12400 54-	
Ocean Weather Station 'I' 59°00'N 19°00'W	872++	997 997 800	986 ++ 07 850 04 03 778 02- 03- 746 02- 07- 656 ++ 18- 606 12- 21- 593 12- 22- 355 40- 47- 314 46- 310 45- 284 48- 250 44- 236 43- 107 45- 060 48-	284 09300 48-	
	02 855++	000 000 818	978 08 05 818 00 01- 799 ++ 03- 774 ++ 04- 759 04- 07- 714 05- 12- 659 10- 23- 606 ++ 27- 570 17- 25- 555 ++ 27- 537 20- 28- 503 ++ 33- 371 40- 48- 313 49- 250 43- 244 42- 156 42- 080 45-	313 08600 49-	
Ocean Weather Station 'I' 51.2°N 17.3°W 52°30'N 20°00'W	01 854++	012 012 655	961 11 09 935 10 09 911 08 05 861 07 09- 840 08 16- 816 06 22- 792 07 22- 700 03 25- 600 04- 31- 500 12- 38- 400 25- 48- 343 30- 52- 288 40- 59- 255 48- 250 48- 221 51- 214 49- 150 53- 120 53- 080 52- 022 44-	221 11400 51-	
	68502	015 015 665	963 13 11 940 11 11 900 09 08 853 06 06 836 07 07 765 03 03 750 04 02- 700 02 13- 665 00 15- 500 13- 38- 306 39- 59- 295 42- 278 43- 250 47- 242 48- 196 47- 131 51- 100 50- 057 45-	242 10800 48-	

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	22800m 110 07 19500m 230 06 02180/2 09780/1	260 65 08230m
STORNOWAY 03026	079mb 220 12 14610/1 036mb 100 06 13120/1	270 68 09500m 260 65 09300m 260 62 09400m
SHANWELL 03170	356mb 260 84 09080/0 09500/0 10400/1 10850/1 11750/1 13110/1 17050/1 130mb 270 29 15300m 260 40 07800/0 13120/1	270 122 09920m 270 114 10190m 260 95 10370m 260 100 09550m
ALDERGROVE 03917	350mb 260 85 158mb 260 80 08150m 270 80 15500m 260 29 08550/0 12550/1 13650/1 170mb 270 80 122mb 260 47 17000m 240 21 07000/0 09600/0 11620/1 12170/1 13580/1 14600/1	260 126 10020m 260 131 10140m 260 127 10760m 250 130 10300m
AUGHTON 03322	19200m 280 05 12070/1 12430/1 14180/1 16190/1 17120/1 343mb 270 89 122mb 260 57 08400m 260 94 15000m 250 46 20400m 250 04 08420/0 08860/0 11630/1 12230/1 15580/1	270 90 09890m 270 106 11090m 260 118 10400m 260 126 10060m
HEMSBY 03496	14800m 280 38 06420/0 09230/0 11030/0 12620/1 13620/1 170mb 280 73 124mb 290 39 040mb 290 03 14440m 260 44 17500m 280 14 05600/0 09330/0 12840/1	290 75 11500m 280 102 11280m 270 100 10850m 270 110 10400m
CRAWLEY 03774	073mb 350 04 14070/1 14590/1 19800m 220 11 12280/1 12650/1 12960/1 13350/1 08470/0 12820/1 14950/1	300 71 09130m 280 87 11460m 280 96 12050m 270 93 10370m
CAMBORNE 03808	P1772Cm 270 11 12160/1 14700/1 15400/1 P1800Cm 250 12 12710/1 13580/1	270 73 09120m 270 93 11920m 260 87 12200m 260 85 12540m
VALENTIA 03953		260 86 07170m 260 118 10590m
Ocean Weather Station 'I'	455mb 250 11 349mb 060 18 348mb 110 03 P19500m 230 07 04500m 230 06 27300m 090 10 08660/0 09860/4	
59°00'N 19°00'W		
52°20'N 17°20'W	265mb 250 90	250 108 09390m
52°20'N 17°20'W	304mb 250 131 289mb 250 121	
51°20'N 17°30'W	337mb 240 76 205mb 240 106 193mb 240 104	240 120 10680m
50°80'N 17°10'W	348mb 250 76 230mb 250 159 175mb 250 54	
52°30'N 20°00'W		
LARKHILL 03743	17070m 270 16 13100/1	270 92 11450m 270 94 11200m

NOTES ON THE AEROLOGICAL SITUATION

A westerly jet stream is now established over the British Isles. The main features elsewhere show no great change.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb.	°C	mb.	mb.	°C	°C
Lower	(195)	(-59.1)	...	...	...	...

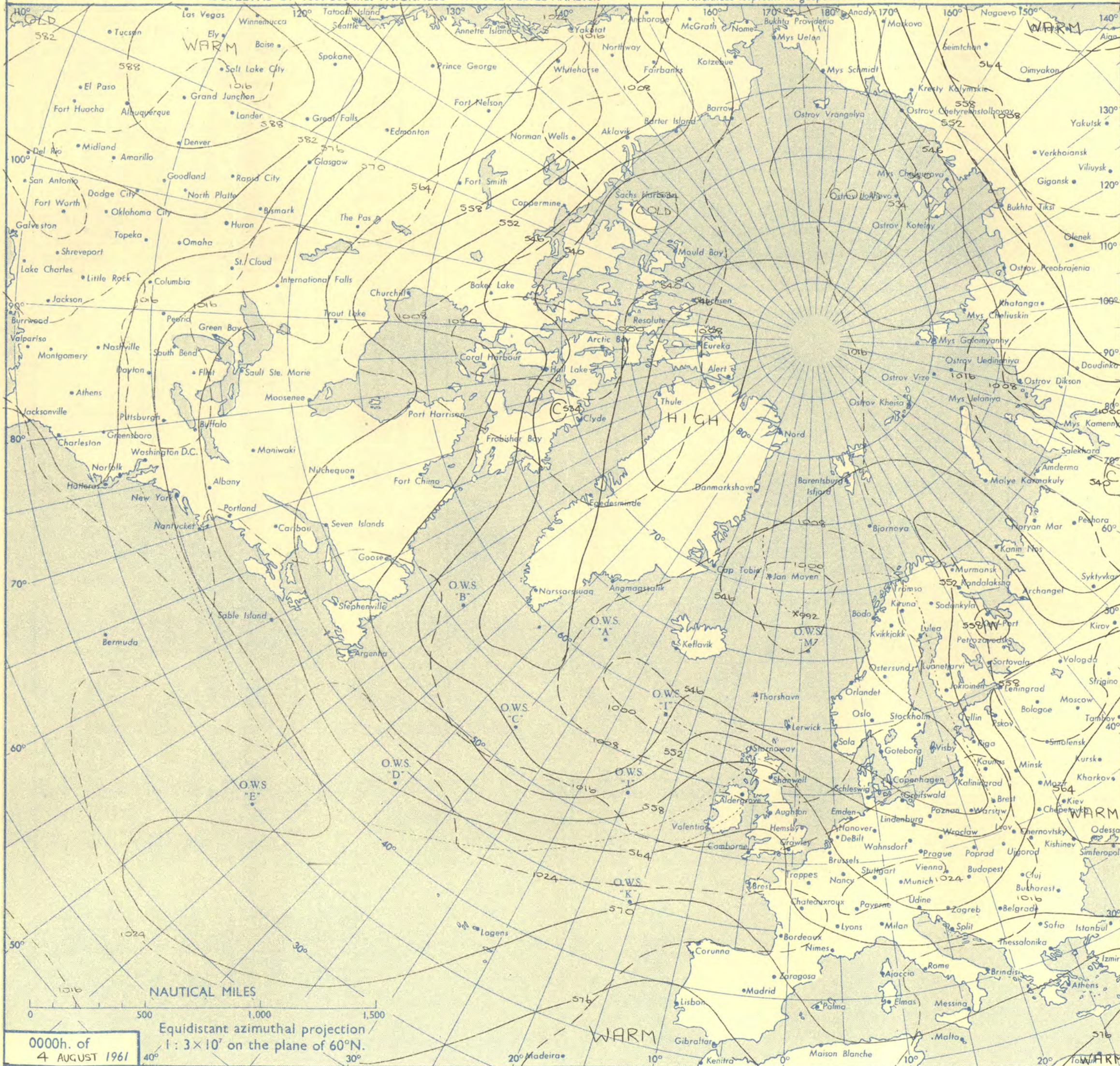
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

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

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

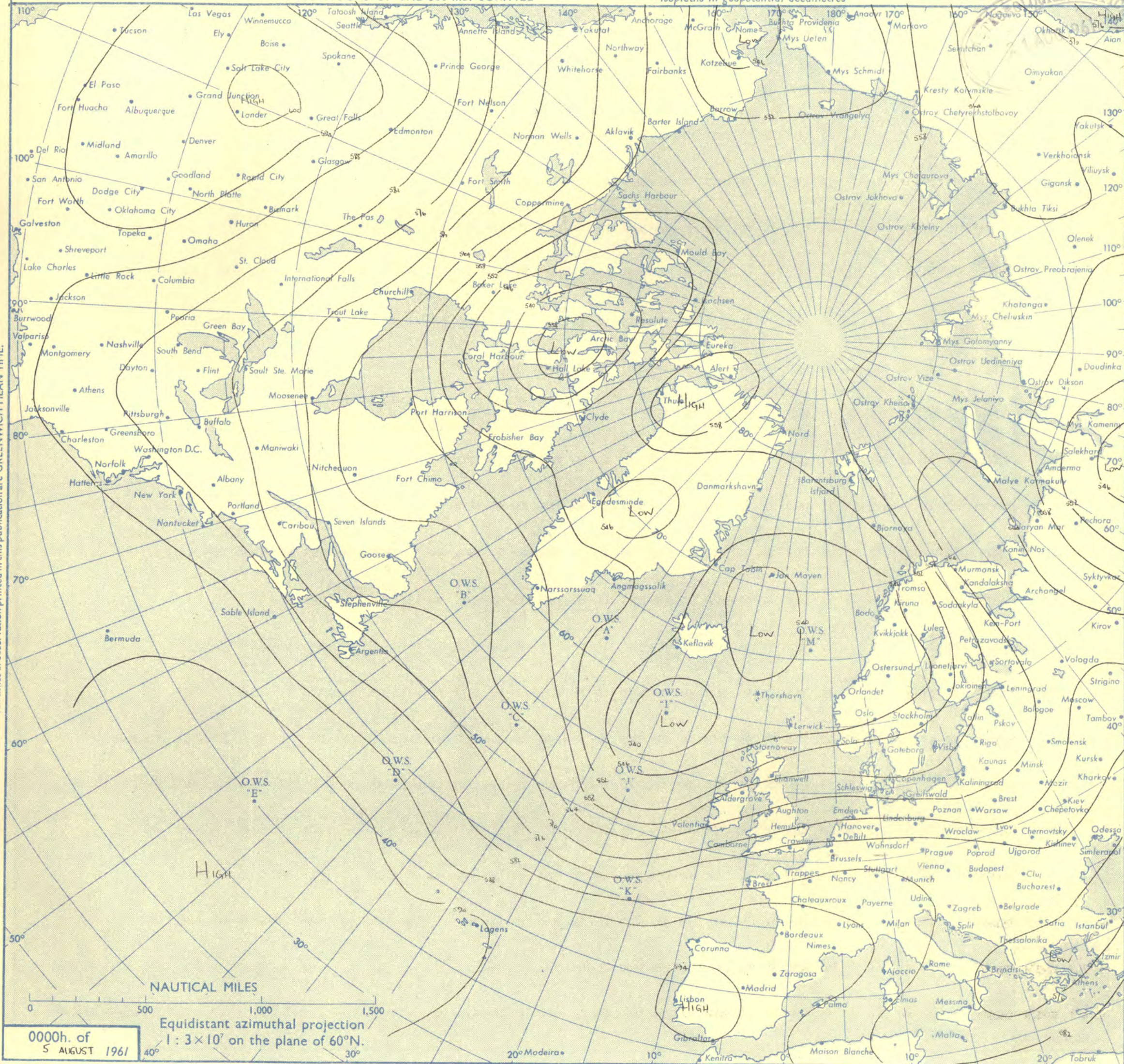
ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



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

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

59°00'N 19°00'W
50°9'N 17°3'W
Ocean Weather
Station
51°4'N 18°1'W
52°30'N 20°00'W

STATION	ww N _h C _L hC _M C _H	PRESSURE			TROPOPAUSE mb m °C
		MSL	Surf.	0°C level	
LERWICK 03005	01 755++	002 992 809	980 ++ 09 962 10 08 873 03 01 783 ++ 03 767 ++ 10 710 04 17 653 ++ 19 510 21 35 460 ++ 35 423 ++ 265 09800 52	42 360 40 50 266 52 250 50 212 43 183 45 123 43 100 47 090 46	
	02 5564+	999 990 808	967 11 06 926 ++ 05 880 04 00 847 ++ 02 803 ++ 01 706 05 11 694 ++ 13 620 ++ 15 608 13 16 569 15 291 09140 53	24 548 ++ 28 464 ++ 32 371 40 46 291 53 259 45 250 45 229 45 214 41 164 44 100 44 086 46 076	
STORNOWAY 03026	02 556++	003 001 762	842 01 00 830 02 00 783 01 07 677 07 12 620 ++ 21 577 13 26 482 ++ 36 412 ++ 37 353 40 46 263	52 250 49 229 44 105 43 087 46 043 46	263 09900 52
	80 725++	998 997 800	946 10 08 830 ++ 03 800 00 01 784 ++ 03 744 ++ 04 728 ++ 08 672 ++ 10 620 12 16 607 ++ 16 600	13 20 560 ++ 31 541 18 28 476 27 35 367 40 47 307 50 ++ 293 50 252 42 250 42 132 41 098 41	307 08790 50 086 17390 44
SHANWELL 03170	02 00900	007 007 808 714	983 12 08 932 08 05 908 07 04 883 07 02 852 04 01 782 02 03 741 02 15 721 ++ 12 660 04 17 649 03	19 626 05 19 528 14 33 394 ++ 48 349 39 50 291 48 255 52 250 52 213 47 167 46	255 10230 52
	25 21450	002 001 790	988 13 09 940 09 07 892 07 03 836 03 01 771 01 06 652 09 11 630 10 14 548 18 21 491 ++ 27 479	23 29 404 ++ 42 368 40 46 304 48 250 44 207 43 169 43 129 48 100 44 081 49 040 46	304 08940 48 129 14670 48 081 17760 49
ALDERGROVE 03917	01 25600	010 001 803 728	989 12 09 860 03 02 830 ++ 02 798 01 04 747 01 08 680 ++ 11 652 04 15 451 23 36 416 28 40 326	39 50 258 50 250 51 229 52 214 48 125 50 053 49	229 11000 52
	80 78401	003 994 799	985 12 09 956 ++ 08 910 ++ 02 823 ++ 03 744 04 13 702 05 17 575 15 26 495 ++ 30 364 ++ 45 315 48	++ 260 43 202 42 074 48 045 46	315 08680 48
AUGHTON 03322	02 6093+	013 006 664	991 15 11 925 ++ 05 892 ++ 06 830 04 01 803 01 00 786 07 01 774 ++ 08 561 08 30 442 22 33 398 26	39 328 37 50 250 49 221 54 181 50 159 53 093 53 066 49	221 11330 54
	50 673++	005 998 755	966 12 10 844 04 03 785 02 00 736 ++ 04 718 ++ 22 691 ++ 18 662 ++ 25 589 10 32 552 14 33 427	26 ++ 394 29 ++ 295 44 250 49 237 51 208 47 044 47	205 10730 51
HEMSBY 03496	02 8097+	013 012 641	997 18 11 852 ++ 07 810 ++ 03 802 05 03 783 07 11 765 ++ 20 573 15 45 523 11 27 432 ++ 28 362 ++	44 321 33 42 284 40 47 250 46 191 56 185 52 104 57 070 52 044 49	191 12410 56
	61 6732+	007 006 688	991 17 15 781 06 05 758 ++ 01 724 03 03 689 00 04 669 ++ 09 658 01 08 606 07 12 585 07 12 576	++ 16 541 10 20 510 ++ 21 481 15 27 423 23 35 380 29 36 361 29 35 300 40 45 250 50 205 58	205 11820 58 181 54 077 52
CRAWLEY 03774	45 9+0++	016 999 660	982 15 14 871 ++ 10 800 ++ 01 783 ++ 02 768 07 00 754 ++ 03 653 ++ 03 634 02 07 613 02 14 597 ++	16 545 ++ 17 511 ++ 23 492 14 23 486 13 22 450 ++ 22 352 ++ 34 304 37 41 250 47 220 54 185	185 12640 57
	53 870++	010 993 642	989 ++ 13 935 13 11 847 11 08 826 09 05 813 10 05 762 ++ 02 741 ++ 04 720 ++ 02 701 ++ 07 680 ++ 03	610 ++ 12 544 ++ 12 517 10 15 438 ++ 25 413 ++ 33 403 22 33 357 27 36 283 ++ 48 250 47 208 56	208 11880 56 093 54 086 51
CAMBORNE 03808	60 9+0++	015 005 665	994 ++ 15 894 12 11 871 13 11 776 ++ 06 748 06 03 589 06 07 568 06 07 506 13 16 490 13 16 283 40	43 250 45 198 56 183 58 150 56 093 57 070 53	183 12710 58
	01 22502	012 001 672	982 14 10 949 ++ 08 902 08 04 840 ++ 06 824 06 02 813 ++ 01 776 03 05 754 04 15 668 ++ 22 635 ++	20 551 09 30 458 ++ 41 421 24 39 403 ++ 34 383 25 33 335 ++ 37 287 40 46 250 48 216 55 195	216 11540 55
VALENTIA 03953	01 15600	012 010 702	936 10 05 838 05 01 811 05 07 770 03 04 702 00 12 691 00 13 605 06 23 484 18 32 432 25 38 404	27 40 250 50 237 53 191 47 149 47 084 52 060 52	237 10900 53
	80 785++	009 007 810	890 06 03 779 02 06 761 01 06 692 05 13 637 10 15 567 14 21 434 28 37 349 40 275 49 250 46	241 44 206 43 182 46 093 48 063 49	275 09700 49
Ocean Weather Station '1' 59°00'N 19°00'W	21 784++	998 998 809	986 10 08 886 04 03 864 04 01 828 01 03 759 05 07 745 04 06 691 09 12 655 ++ 19 639 ++ 16 623	++ 22 600 15 24 576 ++ 22 510 ++ 30 498 25 37 443 32 42 388 40 47 307 51 250 43 233 42 066	307 08700 51
	01 48432	002 002 848	998 ++ 05 972 09 05 868 01 02 758 05 08 674 10 17 640 ++ 21 593 17 25 527 21 29 488 ++ 31 365	40 45 275 56 262 55 250 48 180 43 087 44 062 47	275 09500 56
Ocean Weather Station '1' 51.4°N 18.1°W 52°30'N 20°00'W	58530	012 012 800	954 09 06 909 07 01 858 03 01 837 02 03 800 00 01 779 00 09 759 01 21 700 03 30 500 19 43 334	40 59 300 45 275 47 250 45 214 44 100 49 053 49	275 09800 47
	01 42500	010 010 750	950 11 10 923 07 06 812 02 00 709 02 16 672 04 14 581 11 23 526 17 28 468 22 36 419 27 44 366	36 53 341 40 55 267 50 250 48 217 44	287 10000 50

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb	750mb	700mb	600mb	500mb	400mb	300mb	250mb	200mb	150mb	100mb	70mb	50mb	30mb	20mb	10mb
					900m	1500m	2100m	3000m	4200m	5400m	7200m	9000m	10500m	12000m	14100m	15900m	18300m	20700m	23700m	26400m	30900m
LERWICK 03005	042336	T	240 11	+++ ++	250 25	260 16	250 18	250 23	240 25	240 33	250 47	250 59	250 38	250 35	250 24	210 10					
	050535	P	220 14	+++ ++	230 21	240 22	240 23	240 25	240 25	250 29	240 46	240 54	240 39	240 31	230 25	230 15	210 07	170 05			
	051130	P	190 14	+++ ++	220 18	220 19	240 24	230 25	230 23	220 15	230 14	220 26	230 31	230 29	210 21	230 17	200 10	190 05			
	051730	P	180 10	+++ ++	210 18	190 18	190 15	220 08	230 16	210 18	200 20	210 21	220 21	240 22	230 22	220 11					
STORNOWAY 03026	042330	P	220 24	+++ ++	250 32	250 33	250 34	260 34	250 33	240 44	250 57	250 59	240 51	240 45	240 37	230 23	220 18				
	050540	P	210 18	+++ ++	220 28	210 35	220 33	220 32	220 30	220 28	220 27	230 40	230 39	230 33	240 27	230 16					
	051134	T	220 15	+++ ++	230 13	230 17	220 19	230 22	210 29	200 31	210 40	210 43	220 29	230 27	210 19	220 15	220 20	210 07			
	051730	P	260 14	+++ ++	240 17	230 16	230 16	230 17	220 17	210 19	210 22	200 27	240 19	240 24	240 22	220 17	250 03				
SHANWELL 03170	042330	T	230 07	+++ ++	260 26	270 27	270 22	260 28	250 40	250 50	240 59	250 87	250101	250 71							
	050530	T	210 09	+++ ++	250 21	250 25	250 22	240 19	240 35	230 47	230 65	240 86	240100	240 52	240 49	240 32	260 10	250 11	140 10		
	051130	T	220 15	+++ ++	230 22	230 23	230 25	220 34	230 27	240 37	230 37	230 71	240 67	230 56	230 29	230 22	210 10	220 07			
	051730	P	250 09	+++ ++	260 22	260 22	250 23	240 24	230 30	220 30	220 36	230 54	230 55	230 45	240 38	240 23					
ALDERGROVE 03917	042330	T	190 08	+++ ++	250 22	250 22	260 22	250 29	240 42	240 47	250 67	240108	240125	240 90	250 53	230 35	230 13				
	050530	P	190 10	+++ ++	220 25	230 27	230 27	240 34	230 39	230 55	230 66	230 99	230 94	240 66	240 53	240 31	240 16				
	051130	T	230 15	+++ ++	250 19	270 23	260 22	240 27	240 36	230 44	220 54	220 73	230 73	230 57	230 38	230 28	210 19	240 09			
	051730	P	240 14	+++ ++	260 26	250 34	240 34	250 38	250 38	250 40	250 66	240 81	240 63	230 48							
AUGHTON 03322	042330	T	210 03	+++ ++	270 16	260 21	260 30	260 42	250 49	250 51	260 68	260109	250120	260103	250 62	240 25	220 15				
	050530	P	110 04	+++ ++	280 08	240 15	240 24	240 36	230 54	230 56	230 73	240101	240120	250107	250 72	250 35					
	051130	T	190 07	+++ ++	240 11	250 19	250 24	240 37	230 47	230 66	230 92	230114	240130	230 81	240 48	240 26	240 14	250 02			
	051730	P	250 09	+++ ++	270 24	260 25	260 30	260 31	250 42	250 54	240 77	240117	230120	240 65	240 60	240 43	260 16				
HEMSBY 03496	042330	T	160 06	+++ ++	250 11	270 18	270 23	260 38	260 45	270 46	270 67	270100	260108	270106							
	050530	P	210 08	+++ ++	250 16	250 30	250 30	240 38	250 43	240 40	240 56	250 84	250110	260108							
	051130	T	220 10	+++ ++	220 34	230 32	240 39	240 42	250 57	240 65	230 75	240 99	240101	240110	240 63						
	051730	P	260 07	+++ ++	260 26	240 33	240 44	240 47	240 49	240 66	240 82	240104	240115	240108	250 71						
CRAWLEY 03774	042330	T	240 05	+++ ++	250 21	270 29	270 30	260 38	270 36	270 54	270 65	260 78	260 86	260 85	260 60						
	050530	P	210 12	+++ ++	240 32	250 28	240 33	240 43	240 53	250 53	260 63	260 75	260 93	250 97	250 64						
	051135	T	210 12	+++ ++	240 28	230 40	230 39	240 44	240 53	240 66	240 73	250 81	250103	240 98							
	051730	P	250 10	+++ ++	280 27	280 29	260 39	250 46	240 55	240 63	240 89	240 96	230107	240112	250 69						
CAMBORNE 03808	042330	T	210 12	+++ ++	240 33	240 35	230 38	240 32	250 36	240 67	250 74	250 90	250 94	250 98	250 71						
	050530	P	200 17	+++ ++	230 38	230 33	240 38	240 53	240 57	230 56	240 72	240 89	240 97	240118	240 86						
	051130	T	270 18	+++ ++	270 25	280 29	270 32	250 47	250 58	230 70	240 78	240104	230109	240127	240 86						
	051730	P	270 12	+++ ++	270 24	270 24	260 25	260 38	250 48	250 61	240 66	230102	230126	230114	240 86						
VALENTIA 03953	050000	T	180 07	200 11	240 17	240 21	240 29	240 43	230 50	240 63	240 79	240106	230113								
	051200	T	270 11	270 13	250 23	260 26	270 30	260 34	270 43	260 55	260 72	250 82	250 80	240 76							
Ocean Weather Station 'I' 59°00'N 19°00'W	050000	T	020 20	+++ ++	030 15	010 10	020 09	360 12	030 06	010 06	070 02	040 30	030 09	280 10	250 09	230 07	190 10				
	050600	P	360 20	+++ ++	010 19	010 19	010 19	320 11	340 14	330 16	010 20	040 42	340 13	290 13	290 13	290 06	280 05				
	051200	T	360 14	+++ ++	350 14	360 13	350 11	320 14	320 14	360 26	010 25	020 22	020 21	340 13	300 12	320 06					
	051800	P	315 10	+++ ++	300 17	310 15	320 14	340 16	340 18	330 22	340 24	020 18	030 24	340 13	310 16	280 07	300 04	290 03	160 02		
Ocean Weather Station 'J' 51.0°N 17.5°W 51.4°N 18.1°W 51.8°N 18.7°W 52.3°N 19.0°W	042300	T	270 22	270 22	260 23	260 33	260 37	260 35	260 42	260 58	240 72	240 81	240100								
	050600	P	260 30	+++ ++	270 34	270 40	270 44	270 45	270 46	270 51	270 57	270 67	260 73	260 53	260 50	250 29					
	051200	T	270 32	270 33	290 42	280 41	280 37	280 38	280 43	280 47	280 49	280 47	280 42	280 51	280 38						
	051800	P	290 30	+++ ++	300 34	300 35	300 33	290 34	280 33	270 41	280 38	290 47	290 48	290 37	280 35	260 26					
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	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
051140	48°2'N 18°0'W	017 010 700	061 15 11	143 11 08	1021 07 06	1487 05 03	1978 01 00	02 08-	3054 00 14	05- ++	4264 08- ++	13- ++	5651 18- ++	
Cloud :— 1/8 Cu. 1800ft to 7000ft. 3/8 Cu. 2000 to 5000ft. 3/8 Sc. 6000ft to 6000ft. 1/8 Ac. 14000 to 14000ft. 1/8 Ci 22000 to 22000ft. Inversion Isothermal Levels :— 800mb to 750mb 1°C to 24°C. Levels :—														
YYGGgg	POSITION	PRESSURE	SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL Surf. 0°C level	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
051253	45°9'N 13°2'W	017 010 640	061 17 15	140 13 ++	1024 10 05	1494 06 04	1993 05 02-	05 02-	3082 03 ++	01 ++	4316 05- ++	11- ++	5715 17- ++	
Cloud :— 1/8 Cu. 1600 to 4000ft. 2/8 Cu 1600 to 7000ft. 2/8 Sc 6000 to 7000ft. Inversion Isothermal Levels :— Levels :—														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.												Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2		

STATION		MAX. WIND
LERWICK 03005	22200m 110 07 032mb 040 08 17700m 230 07	250 62 08380m
STORNOWAY 03026	17200m 220 17 044mb 140 04 20200m 140 05 18660/5	240 64 08360m
SHANWELL 03170	183mb 250 65 11200m 240 73 24700m 000 00 08420/0 08950/0 10350/1 10800/1 11600/1 14100/1 043mb 290 02 08560/0 12160/1	250 118 10360m 240 110 10100m 230 73 09550m
ALDERGROVE 03917	339mb 250 90 060mb 220 12 08720/0 09850/1 14180/1 13200m 230 41 06760/0 07220/0 09200/1 10650/1	240 132 10710m 230 147 09530m 230 79 09010m 240 86 09400m
AUGHTON 03322	334mb 260 82 133mb 250 48 17700m 240 16 00790/2 12010/1 10200m 230 88 16200m 240 32 07890/0 08330/0 08780/0 09620/0 10670/1 11140/1	250 131 11000m 240 126 11160m 240 131 10510m 240 139 09880m
HEMSBY 03496	13200m 250 67 11900/1 12550/1 178mb 240 84 121mb 230 42 14300m 250 56 11500/1 12600/1 13000/1	270 110 10790m 260 117 11360m 240 111 11700m 240 130 11220m
CRAWLEY 03774	15000m 250 47 12680/1 13170/1 13680/1 174mb 250 96 14100m 240 63 13310/1	260 93 11470m 250 106 11430m 240 110 11400m 240 114 11650m
CAMBORNE 03808	539mb 240 62 112mb 250 42 14400m 240 68 12140/0 12550/1 12980/1 14250/1 124mb 250 53 14100m 240 59 15300m 240 41 05510/0 08080/0 09300/0 12250/1 13750/1 14250/1	250 99 12240m 240 127 12350m 240 134 12350m 230 127 10950m
VALENTIA 03953		230 114 10100m 250 87 09710m
Ocean Weather Station 'I' 59°00'N 19°00'W	341mb 030 18 06300m 350 16 08100m 030 27 08460/0 09680/1 10580/5 548mb 360 19 171mb 290 15 25800m 090 09	
Ocean Weather Station 50°59'N 17°3'W 51°0'N 17°5'W 51°4'N 18°1'W 51°8'N 18°7'W	334mb 240 68 218mb 240 78 087mb 230 18 133mb 280 33 084mb 240 12	240 105 10150m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

A low south of Iceland has moved east and deepened a little. The associated thermal trough to the west of the British Isles has backed the jet over southern England to south of west. A new low to the north of Hudson's Bay is deepening and moving southeast with a developing ridge ahead of it, now over the Davis Strait. Other features have continued a slow eastward movement.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb.	°C	mb.	mb.	°C	°C
Lower	(195)	(-59.1)	...	...	...	...

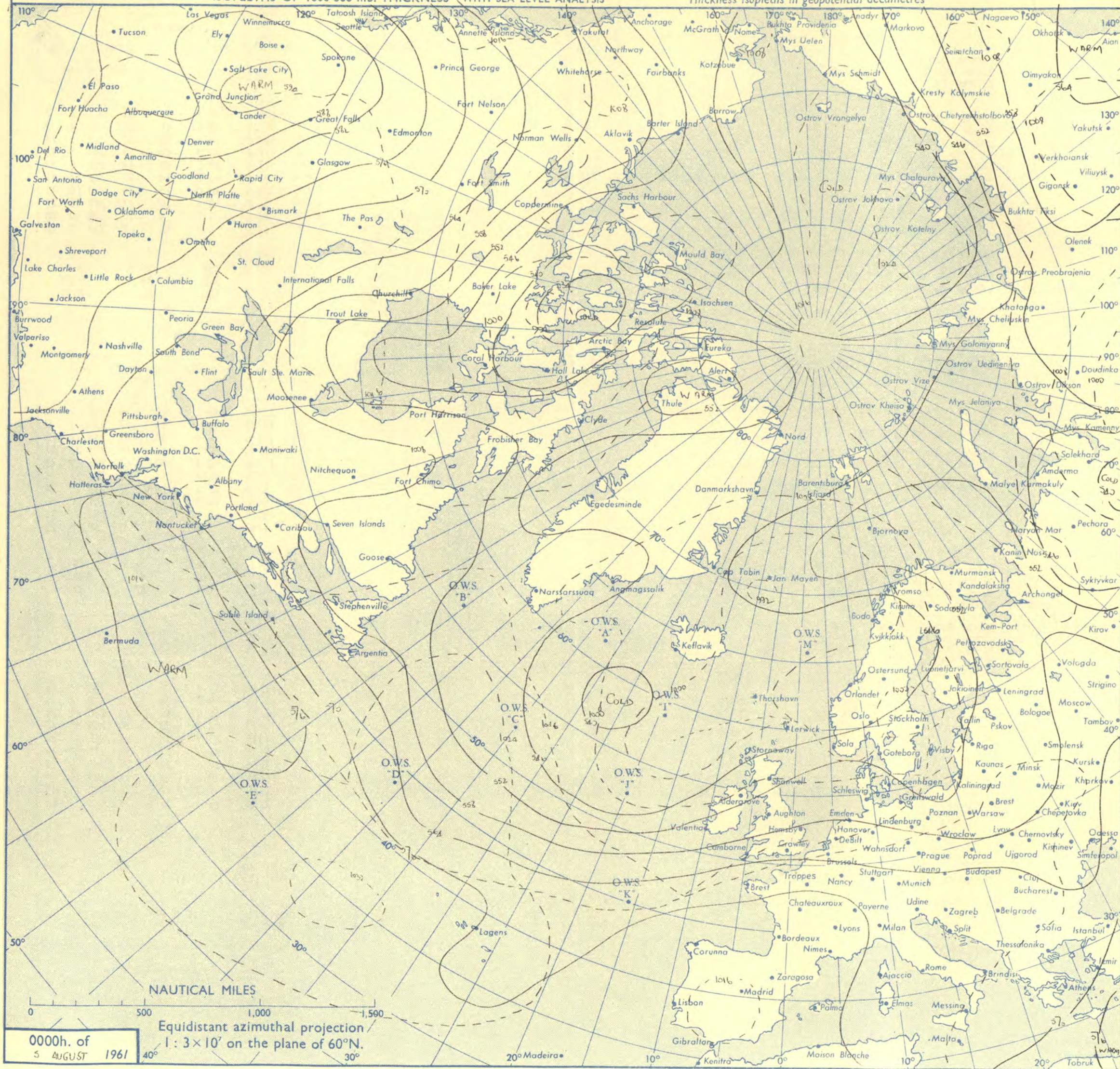
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

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

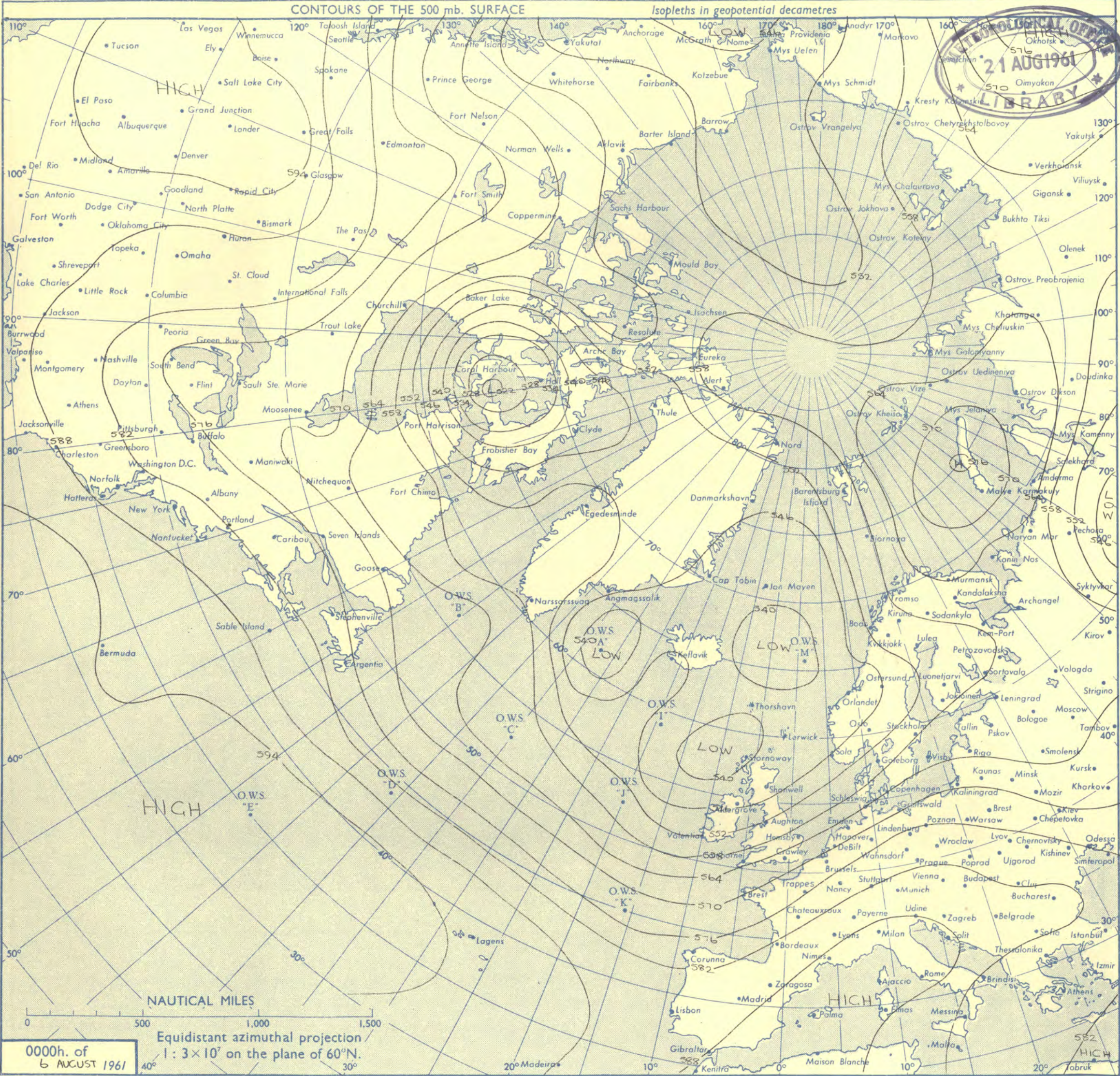
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.

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

Thickness isopleths in geopotential decametres



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



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	052330	082	11	10	021	++	++	1320	03	01	2867	06	10	5417	23	27	7007	37	41	8933	53	++	11636	42	13581	43	16312	44												
	061139	082	13	10	016	++	++	1320	02	02	2856	07	13	5387	25	31	6967	38	46	8878	53	++	11581	42	13520	43	16219	44												
STORNOWAY 03026	052330	013	10	09	017	++	++	1317	02	01	2860	07	12	5389	26	31	6961	40	46	8874	46	++	11622	41	13569	43	16298	43	18687	46	20921	46								
	061130	013	13	08	020	12	07	1352	01	01	2886	08	12	5423	25	38	7002	39	49	8918	51	++	11626	42	13567	43	16298	43	18694	43	20952	45								
SHANWELL 03170	052330	005	10	09	008	10	09	1343	02	00	2884	07	09	5418	25	31	6995	39	48	8916	48	++	11656	42	13591	45	16295	45												
	061130	005	16	11	009	15	10	1352	03	02	2901	07	13	5428	26	33	6998	39	45	8920	49	++	11642	43	13575	44	16288	45	18661	46										
ALDERGROVE 03917	052330	077	12	10	026	++	++	1362	02	01	2905	06	13	5450	21	30	7042	36	40	8983	49	++	11686	43	13615	46	16313	46	18670	48	20889	48	24256	48						
	061130	077	13	08	042	++	++	1379	02	00	2920	07	14	5460	21	30	7050	36	46	8980	48	++	11690	43	13625	43	16336	44	18719	46	20963	44								
AUGHTON 03322	052330	056	13	11	052	++	++	1399	04	03	2946	06	07	5512	20	30	7125	32	44	9094	46	++	11783	45	13690	49	16380	47												
	061130	056	16	09	056	16	09	1399	03	00	2947	06	12	5501	22	33	7098	35	44	9035	52	++	11708	44	13630	46	16317	47	18676	48										
HEMSBY 03496	052330	012	14	11	068	14	11	1426	06	03	2997	00	12	5613	16	33	7254	28	39	9270	40	49	11936	53	13810	51	16444	52	18770	51										
	061204	012	20	10	067	19	09	1428	05	01	2987	03	12	5566	22	34	7174	33	37	9139	46	++	11823	46	13735	47	16417	48	18771	49	20994	49								
CRAWLEY 03774	052330	144	12	12	095	++	++	1450	06	01	3025	01	16	5648	16	39	7288	27	41	9306	40	49	11953	56																
	061130	144	17	13	086	++	++	1443	05	03	2999	05	07	5575	21	31	7187	33	42	9152	46	++	11809	50	13684	50	16319	52	18630	53	20807	52								
CAMBORNE 03808	052330	088	13	12	102	13	11	1450	05	03	3017	00	01	5623	18	30	7248	31	37	9233	45	++	11880	49	13761	51	16398	53	18717	51										
	061130	088	17	12	091	17	12	1439	05	03	2996	04	14	5573	20	33	7187	33	40	9137	49	++	11782	46	13688	47	16354	49	18691	49										
VALENTIA 03953	060001	014	13	11	070	13	11	1414	04	02	2965	04	15	5530	21	28	7150	33	39	9100	48	++	11790	45	13710	46	16390	47	18750	47										
	061130	014	16	12	085	14	10	1429	03	01	2976	06	12	5530	22	31	7130	33	41	9090	49	++	11740	47	13640	47	16320	48												
Ocean Weather Station 'I' 59°00'N 19°00'W	060001		11	06	029	11	07	1355	01	04	2895	05	20	5450	20	31	7070	32	42	9030	48	++	11650	48	13550	46	16260	45	18630	47	20860	47								
	061200		12	06	018	11	06	1344	00	02	2879	06	16	5430	21	25	7040	32	38	9010	47	++	11630	50	13520	48	16200	47	18500	48	20770	48								
Ocean Weather Station 'J' 52°30'N 20°00'W	060001		13	10	108	13	09	1440	01	03	2991	04	11	5580	17	28	7220	30	41	9220	40	++	11920	46	13830	44	16530	45	18910	45	21160	45								
	061200		12	09	101	12	08	1430	03	00	2992	03	14	5590	17	26	7230	27	37	9240	43	++	11880	48	13790	45	16500	44	18890	44	21160	41	24630	38						

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	21 856++	997	987	799	982 11 09 906 07 02 857 ++ 02 756 03 04 713 ++ 09 685 07 09 669 ++ 09 629 ++ 12 603 ++ 16 463 ++ 21 09120 54-			
	02 53406	998	989	821	983 11 08 902 ++ 02 882 ++ 02 791 03 05 718 06 13 669 ++ 15 632 ++ 20 599 16 20 384 40 47 305 985 08740 54-			
STORNOWAY 03026	01 19503	998	996	812	973 10 08 922 06 04 907 06 05 889 ++ 01 776 02 05 725 ++ 10 613 ++ 18 588 17 22 550 ++ 24 461 ++ 332 08200 51-			
	02 785++	002	001	834	993 11 07 934 ++ 05 795 03 04 728 06 10 681 10 14 660 ++ 18 606 14 24 447 31 46 392 40 49 315 51 ++ 283 50 257 44 250 44 189 42 050 43 044 41 034 46-			
SHANWELL 03170	60 856++	001	000	818	993 11 09 985 ++ 08 803 01 02 686 ++ 09 633 12 17 613 ++ 21 583 ++ 20 570 ++ 25 513 ++ 30 484 27 329 08310 48-			
	25 48533	001	001	808	984 12 06 808 00 03 769 ++ 06 712 ++ 13 589 17 22 485 28 35 389 40 46 325 50 285 49 275 44 250 43 240 42 100 45 060 45-			
ALDERGROVE 03917	03 784++	003	994	816	860 02 01 838 ++ 02 775 02 04 738 ++ 11 692 07 14 662 ++ 16 630 ++ 17 568 17 22 507 24 30 395 36 40 371 ++ 44 318 48 289 50 250 45 213 42 128 48 110 45 086 48 030 48-			
	81 794++	005	996	818	970 ++ 05 895 ++ 03 840 ++ 01 771 03 05 700 ++ 14 595 15 19 571 ++ 22 538 20 24 453 ++ 38 376 ++ 50 332 47 275 49 240 43 155 43 125 46 106 44 061 46 035 42-			
AUGHTON 03322	02 11560	006	999	796	999 13 11 979 13 10 928 ++ 07 853 04 03 695 07 08 687 06 09 651 ++ 19 578 13 27 501 ++ 30 349 40 274 49 250 46 178 45 156 49 109 45 092 50 077 46-			
	03 52531	007	000	796 782	994 13 07 796 00 02 782 00 04 710 05 10 670 ++ 15 659 ++ 14 610 13 21 588 ++ 27 548 17 32 367 40 48 300 52 270 53 250 48 245 47 210 44 071 49 066 45 060 46-			
HEMSBY 03496	02 00900	008	006	702	987 15 11 805 03 01 779 ++ 08 770 04 07 754 ++ 07 611 ++ 23 596 07 23 448 ++ 38 389 29 39 327 ++ 47 300 40 49 250 49 224 54 177 49 092 53 083 49 066 52 053 49-			
	02 62502	008	006	767	979 16 08 886 ++ 06 858 06 03 840 ++ 01 777 00 03 765 00 03 750 ++ 08 738 ++ 07 700 03 12 638 ++ 18 590 11 28 502 22 34 449 26 31 420 30 34 348 40 45 328 44 293 46 263 50 250 48 230 45 050 49-			
CRAWLEY 03774	01 00900	011	994	680	975 13 09 930 ++ 06 906 ++ 07 890 ++ 04 870 07 05 811 06 10 774 ++ 17 734 ++ 11 663 01 20 560 ++ 34 444 ++ 44 406 27 42 302 40 49 250 50 223 56 196 56-			
	25 735++	010	993	772	977 14 10 819 03 02 703 ++ 06 697 05 08 690 04 10 672 ++ 20 620 ++ 28 605 ++ 24 552 15 30 526 19 31 469 ++ 31 447 26 34 376 37 47 262 51 250 50 108 51 032 51-			
CAMBORNE 03808	02 15500	012	002	772 704	974 13 11 943 ++ 09 862 05 03 765 01 03 750 02 06 745 ++ 09 646 04 16 560 ++ 26 462 ++ 33 370 35 40 328 40 46 250 51 228 55 202 49 100 53 060 51-			
	03 32600	011	000	762	985 14 09 835 ++ 02 795 01 04 779 01 04 741 ++ 08 710 04 13 679 05 18 482 21 34 397 ++ 40 355 40 46 266 54 250 53 231 48 197 46 094 50 056 47-			
VALENTIA 03953	80 53400	008	007	785	985 13 11 905 06 04 750 02 04 717 03 12 519 19 25 481 22 29 350 41 302 48 266 51 250 48 233 45 166 45 126 47 065 47-			
	02 33500	010	008	800	992 13 09 796 00 03 641 10 16 553 16 26 494 23 32 414 31 39 291 50 260 54 250 52 217 47 155 47 132 49 107 48-			
Ocean Weather Station 'I' 59°00'N 19°00'W	02 884++	003	003	859	963 08 05 828 03 06 813 ++ 05 801 ++ 09 786 01 11 773 ++ 15 708 ++ 20 676 06 18 587 15 23 553 17 32 521 19 32 494 20 33 455 25 36 348 40 50 250 58 249 58 238 58 215 48 125 45 044 47 041 45-			
	01 22530	002	002	859	986 08 03 866 00 02 824 ++ 04 784 03 09 747 03 13 613 13 21 570 17 24 499 ++ 25 474 23 28 435 ++ 32 395 32 39 345 40 46 257 54 250 55 225 58 216 51-			
Ocean Weather Station 'J' 52°30'N 20°00'W	73400	012	012	865 810	885 04 01 845 01 04 830 01 02 810 00 03 792 01 04 536 13 23 368 33 44 302 40 50 250 49 245 50 216 47 150 44 124 46 048 47 041 46-			
	02 59440	011	011	765	930 06 03 840 02 00 802 00 03 765 00 09 600 08 23 540 12 21 500 17 26 468 21 27 427 23 35 315 40 50 280 48 250 51 237 55 200 48 175 44-			

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	052330	T	240 07	+++ ++	240 08	240 09	250 10	190 08	170 14	170 11	190 13	150 15	200 14	220 16	200 16						
	060530	P	270 06	+++ ++	270 09	270 08	260 08	240 08	180 03	140 07	120 14	100 10	230 12	220 10	230 14	200 08	180 05	130 07	150 04		
	061130	T	250 11	+++ ++	280 09	270 07	270 10	260 05	210 02	050 03	050 12	040 10	080 02	230 09	230 13						
	061730	P	310 10	+++ ++	310 10	280 10	280 12	290 13	290 08	330 07	330 10	010 31	340 07	260 11	230 13	200 08	210 04	140 09			
STORNOWAY 03026	052330	T	210 12	+++ ++	250 17	250 14	260 13	250 10	250 09	230 08	230 07	230 09	250 13	240 12	240 15	230 09	230 08				
	060530	P	300 16	+++ ++	330 16	330 15	320 14	320 14	300 10	290 06	080 04	010 05	300 09	260 12	250 12	230 08	240 04				
	061130	T	320 13	+++ ++	320 09	310 10	310 12	300 13	310 07	330 08	010 19	020 34	330 15	290 11	240 12	210 06	220 06	160 04			
	061730	P	310 10	+++ ++	290 10	270 10	260 12	290 13	290 14	310 12	350 28	350 46	340 28	290 13	280 15	250 10	210 08	110 08			
SHANWELL 03170	052330	T	230 08	+++ ++	250 24	260 28	260 28	240 28	250 29	250 37	240 51	240 67	240 49	240 37	240 32	220 20					
	060530	P	230 06	+++ ++	250 21	270 23	260 23	250 23	240 25	240 26	230 38	230 48	240 39	240 28	220 31	250 14	200 05				
	061130	T	260 07	+++ ++	270 14	270 13	280 16	260 16	260 18	250 23	250 36	240 47	250 29	230 26	230 21	220 15	220 11				
	061730	P	330 08	+++ ++	290 15	290 17	300 16	280 12	280 15	270 09	280 12	260 21	260 20	250 22	250 17	240 17					
ALDERGROVE 03917	052330	T	220 12	+++ ++	260 23	250 25	250 28	250 29	250 34	250 39	250 50	240 60	240 54	240 42	240 29	230 20	180 13	240 08	090 11	0070 17	
	060530	P	230 15	+++ ++	280 22	280 24	280 23	280 22	270 27	270 35	250 55	260 56	250 36	250 30	240 29	240 17					
	061130	T	290 04	+++ ++	290 12	280 18	280 18	270 20	280 27	270 24	270 30	280 36	270 27	260 26	250 21	260 12	210 10	150 04			
	061730	P	330 05	+++ ++	300 12	280 15	260 19	270 20	290 21	360 25	310 31	340 43	300 33	270 25	270 20	270 14	260 09				
AUGHTON 03322	052330	T	170 07	+++ ++	260 25	250 25	250 30	260 31	250 39	240 48	240 61	240 100	230 94	230 64	240 48	230 18					
	060530	P	230 08	+++ ++	240 23	250 29	250 29	250 26	250 38	250 47	240 51	240 60	230 64	230 49	230 40	240 24	220 14	100 02			
	061130	T	240 10	+++ ++	270 23	260 23	250 23	250 24	250 30	240 40	240 44	260 42	240 40	240 37	240 42	230 24	210 18				
	061730	T	260 15	+++ ++	270 18	270 20	270 22	260 23	250 22	250 32	260 38	240 42	250 43	250 37	260 26	240 20	250 17				
HEMSBY 03496	052330	T	240 07	+++ ++	270 25	270 21	250 24	240 37	240 51	240 59	240 71	230 109	230 119	230 110	230 56						
	060530	P	220 07	+++ ++	250 16	240 18	240 21	240 31	240 43	240 52	230 69	220 91	220 109	230 72	230 56	230 36	230 10				
	061130	P	230 10	+++ ++	240 17	240 19	250 26	250 31	230 36	230 38	220 56	220 78	220 88	230 63	230 48	230 30	220 19	210 12			
	061730	P	040 09	+++ ++	240 22	240 23	240 26	240 29	230 35	230 47	230 55	230 60	230 66	240 52	240 41	230 29	230 18				
CRAWLEY 03774	052330	T	250 03	+++ ++	270 19	260 21	250 28	250 43	240 47	230 52	230 64	230 106	220 108	230 105							
	060530	P	000 00	+++ ++	260 17	260 17	250 26	240 28	240 34	240 42	230 54	220 78	220 108	230 70	230 56						
	061130	T	220 10	+++ ++	230 20	240 18	250 21	250 32	250 37	250 43	240 45	230 73	230 84	230 72	240 52						
	061730	P	270 03	+++ ++	260 20	260 24	250 25	250 27	240 01	240 11	250 47	240 52	230 60	240 51	250 47	240 31					
CAMBORNE 03808	052330	T	200 04	+++ ++	260 25	260 24	260 28	250 31	250 39	250 49	240 57	230 96	220 112	230 80	240 57	240 30	250 16				
	060530	P	200 05	+++ ++	260 21	260 23	270 23	250 31	240 37	240 36	240 40	220 70	230 57	240 52	250 45	250 35	240 14				
	061130	T	270 12	+++ ++	280 17	260 19	260 25	260 27	250 38	250 38	250 46	240 48	250 49	250 62	250 42	250 20	270 14				
	061730	P	260 12	+++ ++	270 16	270 20	270 24	270 23	260 33	260 41	250 53	250 55	260 56	260 51	260 37	260 31					
VALENTIA 03953	060001	T	280 10		280 11	280 23	280 23	280 26	270 29	270 31	260 40	260 40	250 52	250 51	250 39	260 36	260 26	260 11			
	061130	T	280 08		280 08	290 12	350 10	280 15	290 14	280 17	280 26	260 36	260 38	270 38	280 36	270 29	270 26				
Ocean Weather Station 'I' 59°00'N 19°00'W	060001	T	320 18	+++ ++	320 18	320 18	320 16	320 17	320 14	010 20	360 19	010 13	020 25	350 17	300 13	310 09	140 04	330 03			
	060600	P	315 20	+++ ++	290 20	290 19	290 16	290 11	290 08	260 05	250 16	260 18	260 16	290 16	330 14	330 09	320 05				
	061200	T	240 10	+++ ++	210 04	210 09	220 11	220 13	220 09	240 16	250 23	260 25	250 25	270 17	290 19	030 05	120 05				
	061800	P	135 10	+++ ++	160 15	180 10	200 11	230 15	210 13	220 17	230 26	240 46	240 25	280 23	260 05	280 06	020 03	360 03	060 11	060 02	
Ocean Weather Station 'J' 52°30'N 20°00'W	060001	T	290 26	290 26	300 24	300 25	300 18	300 25	290 33	290 40	290 42	290 45	290 48	290 45	290 36	290 30	280 16	250 07			
	060600	P	300 24	+++ ++	300 26	290 27	290 28	290 28	300 33	300 43	300 49	310 48	310 50	300 41	300 39						
	061200	T	270 20	270 20	270 21	270 22	280 23	280 27	280 26	290 22	300 22	310 20	310 20	290 34	280 30	260 14	260 02	000 00	000 00		
	061800	P	250 18	+++ ++	250 18	260 18	280 14	280 18	270 16	230 18	250 15	220 08									
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			

STATION		MAX. WIND
LERWICK 03005	108mb 190 15 22200m 170 07 04800/2 08750/0 09600/7 10600/3	
STORNOWAY 03026	057mb 130 02 19700m 130 05 06070/2 09460/5 18730/5 037mb 250 02 23200m 140 07 20200/9	
SHANWELL 03170	082mb 210 11	240 71. 08440m
ALDERGROVE 03917	P28800m 130 09 30500m 360 08 16950m 230 17 10160/1 040mb 350 03 08220/3 09200/1 10300/5	240 63 09180m
AUGHTON 03322	081mb 250 18 062mb 220 16 19800m 160 03	240108 09550m 230 72 09710m
HEMSBY 03496	112mb 230 35 167mb 230 76 20100m 230 07 09210/0 10710/1 10800/1 20040m 230 09	230126 10870m 230110 11020m 230 90 10600m 230 67 09960m
CRAWLEY 03774	14700m 230 50 127mb 240 42 11750/1 15450/1	220114 10130m 220110 10380m 230 87 10500m 230 64 10520m
CAMBORNE 03808	05910/0 08930/0 060mb 190 21 15980/1	220114 10670m 210 75 09140m 250 66 11800m 260 61 10510m
VALENTIA 03953		
Ocean Weather Station 'J' 59°00'N 19°00'W	550mb 340 16 190mb 320 16 044mb 220 02 12600m 310 10 20400m 070 04 12600m 280 16 15000m 190 12 10080/1	
Ocean Weather Station 'J' 52°30'N 20°00'W	245mb 290 50 084mb 290 17 064mb 240 05 145mb 300 32 108mb 260 22 291mb 220 08	
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The deepening low over the north of Hudson's Bay has moved southsoutheast whilst the downwind ridge, now over western Greenland has continued to develop. The small low off southeast Greenland has moved southeast with some deepening. The low over north Scotland has moved east and appears to be filling a little, whilst the jet on it's southeastern flank has now moved east into the continent and extends from northwest France to the southern Baltic. Other features have continued their slow eastward movement.

AVERAGE AND EXTREME VALUES 1951-55

AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	102	-68.1	mb.	mb.	°C	°C
Lower	(195)	(-59.1)	...	...	...	...

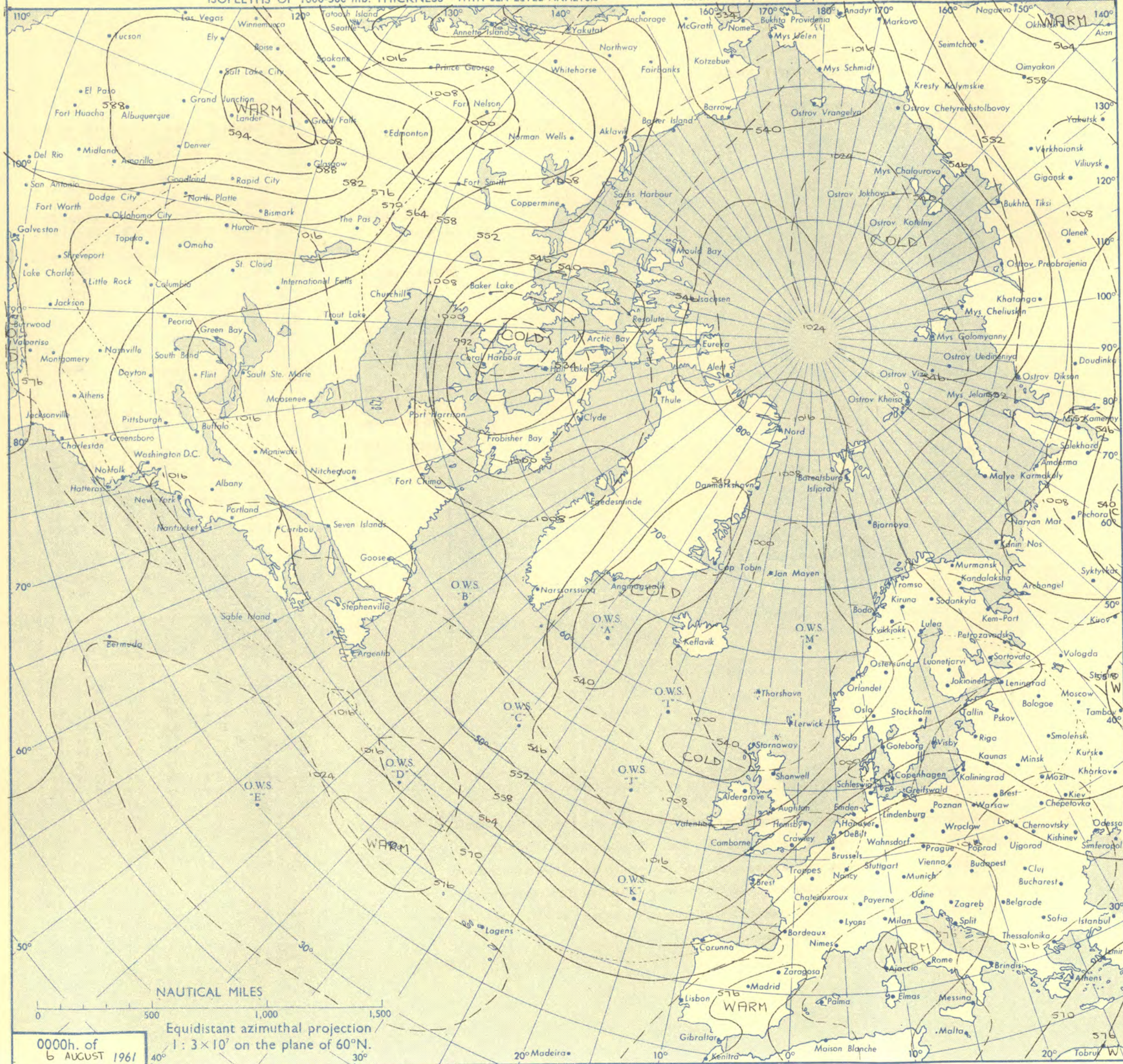
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

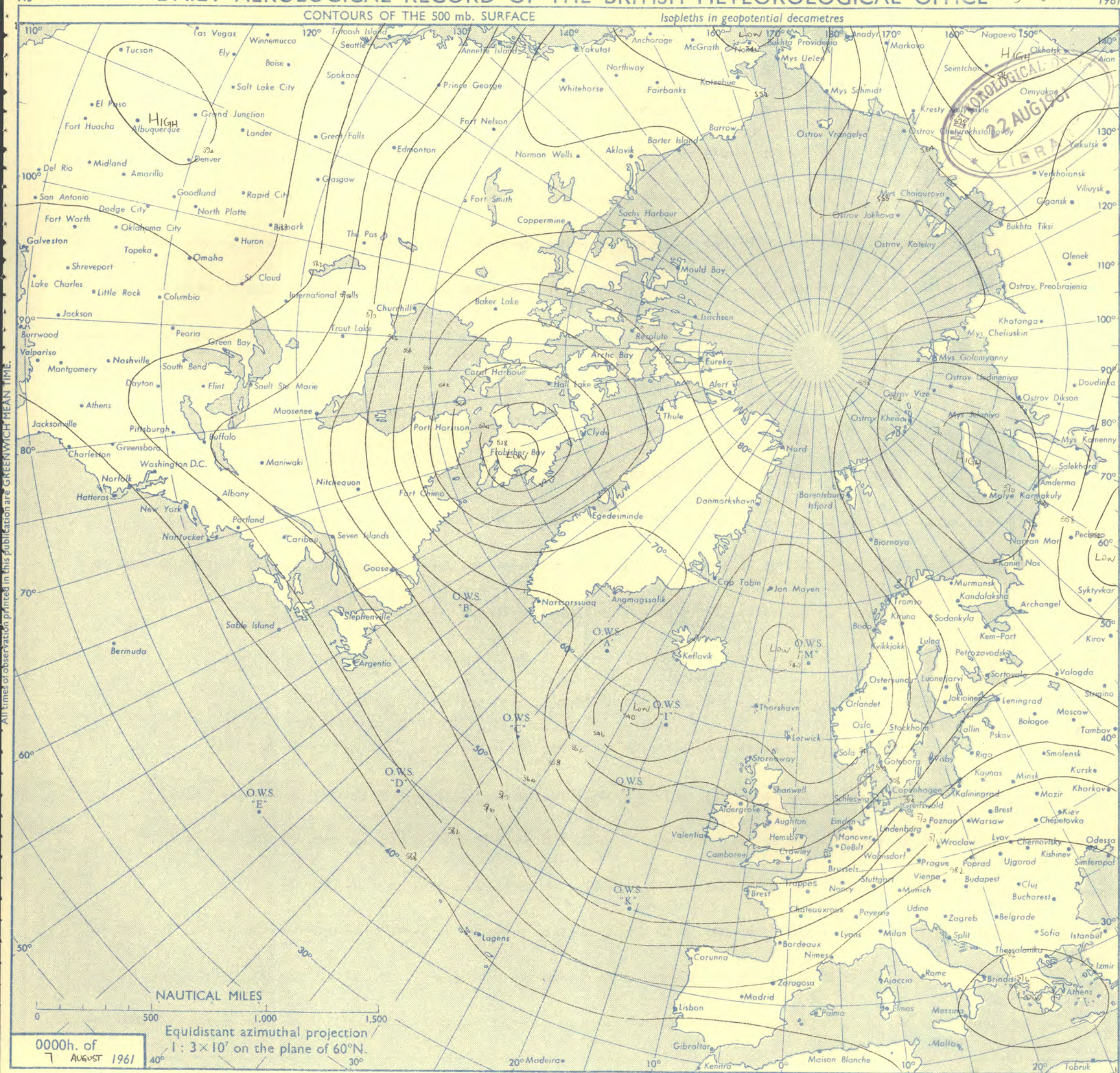
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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

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

Thickness isopleths in geopotential decametres





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	062330	082	10	08	035	++	++	1366	01	04-	2897	07-	13-	5443	23-	33-	7035	36-	43-	8967	52-	++	11613	45-	13533	45-	16243	45-	18618	47-										
	071148	082	13	08	068	++	++	1400	01	04-	2939	06-	15-	5484	21-	24-	7096	33-	37-	9061	47-	++	11672	49-	13576	46-	16270	47-	18634	47-	20862	48-								
STORNOWAY 03026	062330	013	09	07	059	10	06	1392	01	04-	2929	06-	16-	5487	21-	30-	7099	33-	41-	9058	49-	++	11677	47-	13595	45-	16318	44-	18705	45-	20953	45-								
	071128	013	15	10	070	13	08	1405	02	02-	2943	06-	15-	5514	19-	22-	7134	31-	35-	9105	48-	++	11702	49-	13604	46-	16314	44-	18713	44-	20965	43-								
SHANWELL 03170	062330	005	09	08	057	11	07	1396	03	00	2939	07-	12-	5481	25-	36-	7066	37-	50-	9008	50-	++	11671	45-	13593	46-	16291	46-	18660	47-										
	071130	005	15	10	087	13	07	1425	02	02-	2965	04-	23-	5553	18-	31-	7178	31-	38-	9156	46-	++	11760	50-	13644	48-	16327	46-	18700	46-										
ALDERGROVE 03917	062330	077	09	08	078	09	07	1413	02	00	2950	07-	12-	5521	19-	32-	7141	31-	43-	9111	48-	++	11735	47-	13639	47-	16331	47-	18706	46-	20937	48-	24316	47-						
	071130	077	15	06	080	15	06	1417	01	02-	2949	05-	23-	5532	18-	37-	7162	30-	47-	9149	45-	++	11748	54-	13637	48-	16315	46-	18685	47-	20916	46-								
AUGHTON 03322	062330	056	10	10	086	11	09	1432	03	00	2980	05-	13-	5542	21-	32-	7153	32-	43-	9125	46-	++	11780	45-	13694	46-	16372	48-	18732	45-	20965	49-	24336	48-						
	071130	056	18	07	098	17	07	1448	04	02	2998	03-	25-	5605	17-	48-	7239	29-	++	9223	45-	++	11840	52-	13725	48-	16400	48-	18761	46-	20993	46-								
HEMSBY 03496	062330	012	13	12	077	13	11	1429	05	01	2982	06-	09-	5554	20-	30-	7168	32-	38-	9132	49-	++	11793	46-	13701	48-	16375	49-	18721	49-										
	071130	012	19	08	114	16	08	1460	03	01-	3011	03-	14-	5613	16-	33-	7240	31-	46-	9204	48-	++	11794	52-	13657	52-	16272	54-	18574	52-	20751	52-								
CRAWLEY 03774	062330	144	12	10	099	++	++	1446	05	03-	3000	05-	13-	5573	20-	33-	7183	33-	41-	9141	48-	++	11822	46-	13721	49-														
	071130	144	19	10	115	++	++	1465	04	01	3021	02-	21-	5630	17-	40-	7268	28-	47-	9254	47-	++	11862	52-	13720	52-														
CAMBORNE 03808	062330	088	11	10	109	12	10	1454	05	02-	3008	04-	11-	5606	18-	40-	7236	30-	50-	9216	46-	++	11861	48-	13749	50-														
	071130	088	17	11	095	16	11	1442	04	03-	2988	03-	23-	5593	15-	20-	7243	27-	38-	9246	43-	++	11884	55-	13753	51-	16402	48-												
VALENTIA 03953	062330	014	10	08	097	10	08	1441	04	01-	2995	04-	13-	5600	16-	29-	7240	29-	41-	9220	46-	++	11850	51-	13730	49-	16400	49-												
	071130	014	14	11	071	13	10	1406	02	01-	2946	07-	15-	5500	21-	24-	7120	30-	36-	9100	47-	++	11730	51-	13600	49-	16270	48-												
Ocean Weather Station 'I' 59°00'N 19°00'W	070001		12	10	026-	++	++	1312	03	00	2850	06-	09-	5410	22-	33-	7020	33-	45-	8970	47-	++	11630	46-	13550	46-	16250	46-												
	071200		13	08	024-	++	++	1313	02	01-	2853	07-	13-	5390	26-	33-	6960	39-	46-	8910	44-	++	11630	44-	13560	45-	16270	44-	18660	47-	20890	46-								
Ocean Weather Station 'J' 52°30'N 20°00'W	070001		14	10	070	13	10	1420	04	04	2975	05-	08-	5540	20-	36-	7170	30-	50-	9150	45-	++	11800	46-	13720	45-	16420	46-	18790	46-										
	071200		13	06	043	13	06	1370	00	03-	2919	05-	20-	5480	22-	32-	7080	32-	43-	9050	44-	++	11760	42-	13700	43-	16430	43-	18840	42-	21120	41-								

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	01 38500	004 994 838	989 ++ 07 925 06 04 908 ++ 00 823 01- 05- 806 ++ 05- 779 ++ 10- 750 ++ 09- 700 07- 13- 681 ++ 13- 668 10- 268 09680 57-	16- 648 10- 20- 603 ++ 27- 435 31- 41- 372 40- 46- 305 51- 268 57- 250 51- 217 15- 100 45- 073 47- 063 45-				
	02 784+2	008 998 831	988 10 04 900 ++ 00 860 ++ 03- 842 ++ 02- 769 04- 07- 755 03- 08- 733 ++ 15- 714 05- 15- 668 10- 16- 618 ++ 16- 514 22- 25- 499 21- 24- 446 26- 30- 346 40- 46- 250 57- 232 59- 205 19- 163 46- 100 47- 045 48-				232 10740 59-	
STORNOWAY 03026	02 25632	007 005 834	996 ++ 05 988 11 06 958 ++ 05 944 ++ 02 789 04- 09- 765 03- 10- 704 ++ 16- 660 ++ 15- 548 ++ 23- 488 21- 240 10490 58-	31- 355 40- 46- 287 52- 250 57- 240 56- 223 49- 190 45- 121 43- 048 45-				
	02 22532	008 007 827	998 12 07 890 ++ 01- 867 ++ 00 843 ++ 02- 798 ++ 05- 785 03- 09- 773 ++ 12- 757 03- 13- 733 ++ 12- 720 ++ 241 10510 59-	15- 662 ++ 19- 642 10- 17- 613 10- 15- 562 13- 17- 525 ++ 20- 445 ++ 30- 409 31- 35- 392 32- 37- 340 40- 46- 250 58- 241 59- 231 59- 204 49- 092 43- 064 45- 038 43-				
SHANWELL 03170	01 24500	007 006 809	001 11 07 939 09 04 798 01- 02- 715 ++ 09- 685 ++ 13- 653 10- 16- 545 20- 33- 515 23- 36- 485 ++ 36- 465 270 09690 54-	28- 39- 386 38- 49- 365 40- 50- 270 54- 250 49- 244 47- 166 44- 129 46- 100 46- 053 48-				
	02 62501	011 010 821	999 12 06 902 ++ 03 882 ++ 00 857 ++ 00 834 ++ 05- 807 ++ 06- 764 04- 10- 755 ++ 13- 720 03- 21- 534 14- 217 11250 61-	31- 508 ++ 34- 472 ++ 30- 338 40- 47- 250 55- 238 58- 217 61- 204 50- 100 46- 065 46- 057 49-				
ALDERGROVE 03917	01 15600	010 000 820	976 11 07 889 ++ 03 853 ++ 00 815 00 03- 774 ++ 07- 728 ++ 07- 705 07- 10- 679 07- 17- 669 ++ 21- 510 18- 243 10480 57-	31- 344 40- 50- 257 55- 250 56- 243 57- 200 47- 128 47- 030 47-				
	02 52501	009 000 832	998 14 06 912 ++ 03 881 ++ 00 794 03- 04- 742 ++ 08- 734 07- 13- 717 05- 20- 682 ++ 26- 665 ++ 22- 607 222 11100 62-	09- 26- 562 ++ 25- 530 ++ 33- 475 ++ 41- 400 ++ 47- 335 ++ 50- 316 42- 250 54- 222 62- 193 51- 175 48- 065 47- 032 43-				
AUGHTON 03322	01 12500	010 004 803	992 13 09 925 ++ 06 916 ++ 05 775 ++ 04- 753 04- 06- 738 03- 06- 727 ++ 08- 710 05- 15- 687 ++ 11- 666 240 10590 54-	++ 18- 628 ++ 15- 607 ++ 26- 591 ++ 21- 562 ++ 22- 516 19- 32- 466 25- 35- 339 40- ++ 274 50- 250 53- 240 54- 210 45- 114 49- 092 47- 083 49- 072 45- 050 49- 030 48-				
	03 625++	011 005 794	980 14 05 868 ++ 04 815 01 01- 728 04- 07- 710 03- 18- 704 03- 24- 689 03- 29- 606 08- 41- 558 09- 42- 469 21- ++ 381 222 11190 62-	32- ++ 364 33- ++ 250 55- 222 62- 214 55- 174 49- 044 47-				
HEMSBY 03496	13 3946+	009 008 780	984 14 09 822 ++ 01- 798 01 07- 759 ++ 09- 736 03- 07- 664 ++ 11- 634 11- 15- 612 11- 21- 537 16- 36- 497 20- 29- 448 268 09860 53-	++ 32- 346 40- 46- 280 52- 268 53- 250 51- 232 46- 056 51-				
	02 62600	013 012 814	000 16 08 859 ++ 01 811 00 05- 770 00 08- 721 02- 11- 645 ++ 21- 508 15- 31- 378 35- 49- 250 57- 236 59- 236 10750 59-	226 57- 213 60- 201 52- 144 52- 046 52-				
CRAWLEY 03774	01 00900	012 995 778	957 13 08 897 ++ 03 866 ++ 03- 832 04 04- 722 ++ 09- 700 05- 13- 676 ++ 11- 664 ++ 17- 647 07- 17- 585 205 09480 49-	12- 24- 520 18- 31- 460 25- 35- 446 ++ 33- 410 32- 40- 351 ++ 48- 308 47- 285 49- 250 48- 240 48- 221 45- 150 49-				
	02 52601	013 997 789	983 15 13 835 ++ 01 767 02- 08- 721 01- 16- 703 02- 21- 585 08- 32- 397 29- 48- 379 31- ++ 336 40- ++ 271 252 10420 56-	53- 252 56- 250 56- 231 57- 206 51- 171 54- 133 52-				
CAMBORNE 03808	02 00900	013 003 780	991 ++ 08 984 13 10 938 ++ 08 892 07 01 847 ++ 03- 767 01- 05- 724 ++ 13- 687 05- 11- 656 04- 27- 400 30- 270 09920 51-	50- 270 51- 250 52- 236 53- 198 48- 135 51-				
	80 73463	011 001 798	993 15 09 902 07 03 847 ++ 04- 838 ++ 02- 769 02- 04- 750 ++ 11- 731 03- 13- 698 ++ 23- 679 03- 23- 643 225 11120 55-	06- 22- 630 ++ 20- 615 ++ 12- 574 09- 13- 544 12- 16- 493 15- 21- 469 18- 23- 420 ++ 36- 381 30- 42- 317 40- 47- 250 51- 225 55- 203 56- 185 51- 116 51- 101 48- 090 52-				
VALENTIA 03953	02 11500	011 010 782	980 12 09 917 08 04 718 04- 11- 619 06- 19- 543 12- 25- 280 50- 250 55- 240 56- 190 49- 087 49-				240 10700 56-	
	02 5857+	009 007 815	983 11 08 862 02 01- 748 04- 06- 604 15- 18- 547 17- 18- 525 17- 19- 495 21- 24- 487 19- 22- 250 57- 248 248 10300 57-	57- 226 51- 176 51- 136 47- 083 51- 071 51-				
Ocean Weather Station 'I' 59°00'N 19°00'W	80 784++	997 997 799	990 ++ 07 926 07 05 555 18- 21- 538 19- 25- 520 20- 31- 458 25- 36- 361 39- 49- 344 42- 256 53- 250 52- 217 256 10000 53-	46- 082 46-				
	02 22501	997 997 810	935 07 05 886 ++ 01 848 02 00 711 06- 12- 668 09- 15- 560 19- 27- 459 30- 37- 395 40- 45- 364 43- 350 41- 364 07600 43-	270 47- 250 44- 233 42- 041 47-			270 09600 47-	
Ocean Weather Station 'J' 52°30'N 20°00'W	68400	007 007 765	961 10 10 936 08 08 896 07 07 877 05 05 827 03 03 718 03- 07- 656 08- 11- 617 10- 15- 564 15- 20- 529 17- 268 09900 51-	30- 494 21- 37- 451 24- 43- 340 39- 55- 268 51- 250 51- 244 51- 200 46- 138 45- 067 46-				
	03 68440	004 004 850	905 04 00 840 00 04- 800 00 13- 775 01- 13- 650 09- 24- 590 12- 25- 540 18- 29- 376 36- 46- 339 40- 50- 257 10100 48-	257 48- 250 47- 226 44- 165 42- 150 43- 044 43-				

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	062330	T	260 13	+++ ++	270 19	280 19	280 18	270 17	270 09	280 12	330 17	340 32	320 13	250 10	240 12	230 07	200 06				
	070530	P	240 07	+++ ++	270 15	270 15	270 15	260 13	270 13	280 14	290 27	290 27	290 23	270 14	250 15	210 09	220 05	130 08			
	071148	T	240 15	+++ ++	230 16	230 17	240 19	250 17	240 18	260 25	280 32	290 41	290 50	270 21	230 13	230 14	210 08	190 04			
	071730	P	220 09	+++ ++	230 13	240 16	240 15	230 13	250 15	260 19	250 31	240 39	250 46	240 27	230 21	240 11	210 08				
STORNOWAY 03026	062330	T	210 03	+++ ++	260 13	260 14	240 17	250 15	270 10	280 19	300 19	300 32	320 39	280 17	260 12	230 08	160 08				
	070530	P	230 03	+++ ++	230 16	230 18	240 14	240 12	240 18	270 26	260 29	280 32	290 36	270 20	250 16	240 06	200 07				
	071128	T	180 20	+++ ++	210 19	220 15	220 15	210 10	210 11	220 19	230 27	210 34	210 40	230 27	240 17	230 11	190 06	160 06			
	071730	P	180 12	+++ ++	190 16	190 16	190 13	190 18	200 22	200 21	190 31	200 43	210 48	210 30	220 24	220 14	200 09	170 06			
SHANWELL 03170	062330	T	240 06	+++ ++	320 05	300 06	280 08	270 07	280 12	330 21	350 36	350 55	330 29	280 23	260 18	240 09	220 07				
	070530	P	230 05	+++ ++	290 06	240 05	230 04	240 14	250 15	290 19	300 28	310 35	320 38	280 27	260 25						
	071130	T	040 05	+++ ++	230 09	220 13	210 12	220 15	220 21	240 19	250 25	240 26	240 30	250 32	240 22	230 15	210 10				
	071730	P	140 09	+++ ++	180 09	200 14	210 15	210 18	210 20	190 28	210 33	230 45	220 45	230 39	230 30	230 19	260 08				
ALDERGROVE 03917	062330	T	140 04	+++ ++	240 09	250 11	250 14	260 20	270 15	300 20	320 32	320 38	320 38	280 27	270 19	240 15	250 07	130 05	130 13		
	070530	P	190 05	+++ ++	230 07	230 12	240 11	260 12	250 17	240 23	250 21	270 25	260 26	260 35	260 26	250 16	230 09				
	071130	T	220 11	+++ ++	190 14	190 14	210 14	200 16	200 15	200 26	210 35	230 48	220 44	220 40	240 28	220 15	200 09	170 10			
	071730	P	140 11	+++ ++	170 16	170 14	180 11	190 17	200 22	200 33	200 34	210 45	220 68	220 43	230 33	220 20	230 13				
AUGHTON 03322	062330	T	000 00	+++ ++	300 08	290 10	290 16	280 19	280 18	290 21	300 33	320 47	300 34	270 32	250 25	250 24	230 05	010 03			
	070530	P	090 02	+++ ++	270 07	260 10	260 13	250 15	270 16	290 23	290 32	290 33	300 36	270 36	270 31	250 21	250 07	230 04			
	071130	T	100 06	+++ ++	150 08	170 07	210 08	200 17	220 19	220 24	230 28	260 42	250 46	250 42	240 31	240 26	230 13	200 08			
	071755	P	000 00	+++ ++	160 19	170 20	170 21	180 18	190 28	210 34	210 37	230 46	240 54	230 50	240 38	230 32					
HEMSBY 03496	062330	T	260 05	+++ ++	280 12	280 15	280 17	240 25	240 29	240 39	230 48	230 54	230 57	230 46	250 43	240 29	240 21				
	070530	P	280 05	+++ ++	280 12	280 15	270 16	260 19	290 24	290 28	300 54	300 63	270 53	260 45	250 38	240 23	210 18				
	071130	T	240 08	+++ ++	240 10	240 11	240 14	240 09	240 14	270 21	270 35	280 39	280 47	270 52	260 42	250 32	230 19	190 11			
	071730	P	150 14	+++ ++	160 15	180 10	190 12	200 20	220 23	220 31	240 44	250 48	250 70	250 76	250 45	230 30	230 13				
CRAWLEY 03774	062330	T	260 02	+++ ++	280 20	270 21	260 20	250 23	250 35	240 47	240 54	240 60	250 57	250 49							
	070530	P	250 05	+++ ++	260 09	250 10	260 15	280 16	280 25	290 30	300 36	270 55	270 68	270 58	250 48	260 31	250 14				
	071110	P	210 05	+++ ++	220 07	220 14	220 10	210 12	230 20	230 23	260 36	260 46	260 62	260 66	260 47	250 29	230 18	190 09	100 06	150 09	
	071730	P	170 05	+++ ++	190 10	190 18	190 18	190 19	200 33	230 35	230 41	240 52	240 96	250 92	240 56	240 30	220 13				
CAMBORNE 03808	062330	T	210 05	+++ ++	270 13	260 18	260 13	260 14	260 21	280 32	300 38	290 42	270 55	280 58	270 43						
	070530	P	No winds reported.																		
	071130	T	160 10	+++ ++	170 14	180 15	180 10	210 14													
	071830	P	100 13	+++ ++	120 23	130 24	150 30	190 45	210 48	210 48	220 40	220 57	220 76	220 78	230 47	220 26					
VALENTIA 03953	062330	T	000 00		270 07	270 09	250 11	250 13	280 16	260 19	250 20	270 18	260 24	270 40	260 28	260 19					
	071130	T	160 08		200 11	220 09	230 05	240 06	180 27	210 28	220 46	200 61	210 54	230 46	220 31	220 22					
Ocean Weather Station 'I' 59°00'N 19°00'W	070001	T	120 13	+++ ++	130 13	130 12	140 11	140 11	170 12	180 15	200 15	200 52	210 40	260 14	270 10	270 03	2340 06				
	070001	P	180 10	+++ ++	160 05	140 10	120 10	100 12	120 14	150 19	130 30	160 45	170 11	310 07							
	071200	T	130 06	+++ ++	120 08	120 07	120 08	120 09	110 16	130 16	130 16	140 32	100 14	250 09	260 07	230 04	180 07	100 07			
	071800	P	090 10	+++ ++	090 15	090 13	090 13	090 12	090 21	090 22	090 18	130 22	170 08	250 05	270 08	230 04	200 04	210 05	130 10		
Ocean Weather Station 'J' 52°30'N 20°00'W	070001	T	260 20	+++ ++	260 21	250 27	250 25	250 23	270 23	270 17	250 20	240 17	250 14	250 18	250 23	250 23	000 00				
	070600	P	250 18	+++ ++	+++ ++	+++ ++	+++ ++	250 28	240 27	240 21	240 24	240 29	230 27	230 20	220 17						
	071200	T	310 16	+++ ++	310 16	320 15	320 18	310 18	280 16	260 21	270 22	270 17	290 23	300 22	280 20	280 18					
	071800	P	310 20	+++ ++	300 21	300 26	300 27	310 27	300 29	300 29	300 29	300 30	300 33	300 37	280 22	280 24	290 11	250 05	230 04		
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
071200	53°5'N 25°3'W	008 001 850	061 11 06	064 07 04	030 03 03	1390 00 02	1875 04 07	05 11	2920 07 21	08 28	4115 12 31	16 42	5483 22 33	
Cloud :— 2/8 Cu 1700 to 4800ft. 1/8 Cu HNC to 6000ft. 4/8 Sc 3600 to 4000ft. 6/8 Sc 5000 to 6000ft.														
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
071346	57°3'N 23°3'W	000 993 825	061 11 07	000 08 05	869 04 02	1329 01 03	1817 01 08	05 13	2868 07 16	11 23	4051 15 18	19 21	5404 25 31	
Cloud :— 1/8 Cb 1200 to 12000ft. 1/8 Cu 1500 to 9000ft. 2/8 Cu 1600 to 6000ft. 2/8 Sc 3600 to 4300ft. 1/8 Ac at 14000ft. 3/8 Cs at 21000ft.														
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		

Page 5

AVERAGE AND EXTREME VALUES 1951-55							
AUGUST							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.			Wind*	
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22435	-47·1	-44	-56	201	3	7
60	19760	-48·1	-41	-54	213	4	9
100	16400	-48·3	-42	-57	235	9	14
150	13730	-48·4	-42	-63	242	13	24
200	11845	-49·7	-40	-64	243	16	34
300	9190	-44·7	-34	-53	232	17	4
400	7205	-30·0	-19	-39	230	15	33
500	5580	-18·4	-10	-27	229	13	27
700	2985	-2·7	4	-10	230	10	20
850	1425	4·8	16	-2	229	7	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		243	-54·8		10645		
Max.		367	-38		13990		
Min.		150	-66		7590		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.			Wind*	
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22425	-49·2	-45	-56	158	2	6
60	19780	-50·8	-43	-57	224	3	9
100	16470	-52·4	-43	-62	267	13	18
150	13845	-52·3	-42	-69	273	23	31
200	11980	-52·4	-40	-63	274	29	43
300	9325	-42·4	-34	-52	271	27	45
400	7320	-27·2	-18	-37	270	23	36
500	5680	-15·7	-8	-24	267	20	30
700	3060	0·1	7	-6	262	14	22
850	1480	7·7	17	2	260	10	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		226	-55·9		11245		
Max.		343	-41		14235		
Min.		145	-67		8230		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.			Wind*	
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22330)	(-55·6)	...	...	100	14	15
60	19780	-60·8	-54	-68	110	7	11
100	16655	-66·8	-58	-74	250	21	24
150	14175	-60·2	-53	-70	255	41	45
200	12345	-50·9	-44	-59	265	44	49
300	9620	-35·2	-29	-44	275	31	37
400	7555	-20·4	-16	-27	285	23	29
500	5865	-8·6	-4	-14	290	19	24
700	3170	8·9	13	1	310	15	19
850	1540	18·4	27	12	310	7	11
Tropopause		Average	Max.	Min.	Max.	Min.	
		Press. Temp.	Press.	Press.	Temp.	Temp.	
Upper		mb. °C	mb.	mb.	°C	°C	
Lower		(195) (-59·1)	...	...	...	...

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

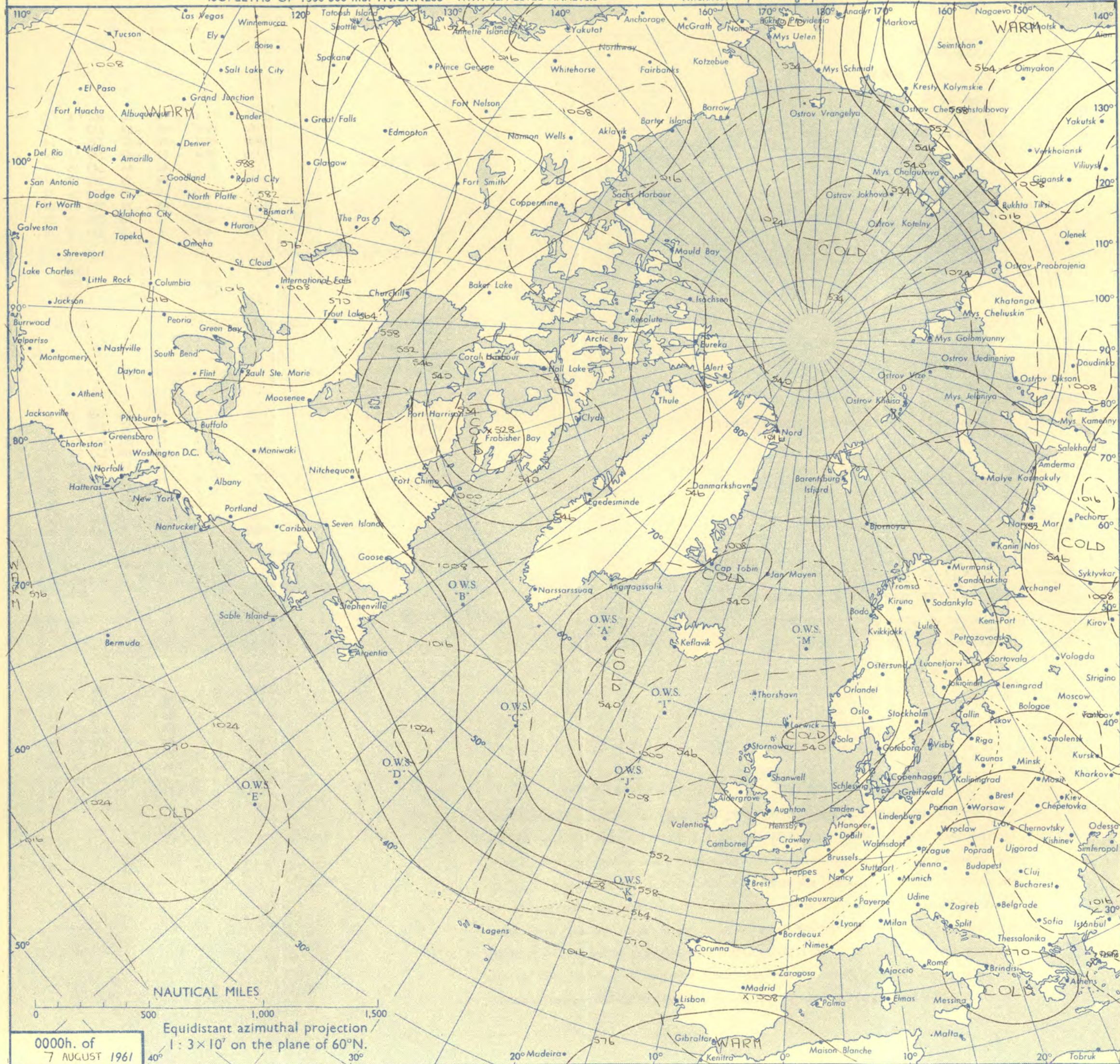
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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

The low vortex over Baffin Island is moving slowly east while the trough extending southwest over the Great Lakes is moving very slowly east and relaxing. The ridge extending northwards over Greenland continues to move slowly east. The complex low area over the Norwegian Sea and south of Iceland persists but the centre south of Iceland is moving south east and the trough extending southsouthwest from this centre is moving east and intensifying. The ridge-trough feature over the British Isles and North Sea is moving southeast steadily, the ridge developing and the trough relaxing with a slow weakening of the southwesterly jet stream over north Germany. The ridge over west Russia is moving east slowly while the high off north Russia is slow moving. The cut off low over the central Mediterranean is almost stationary.

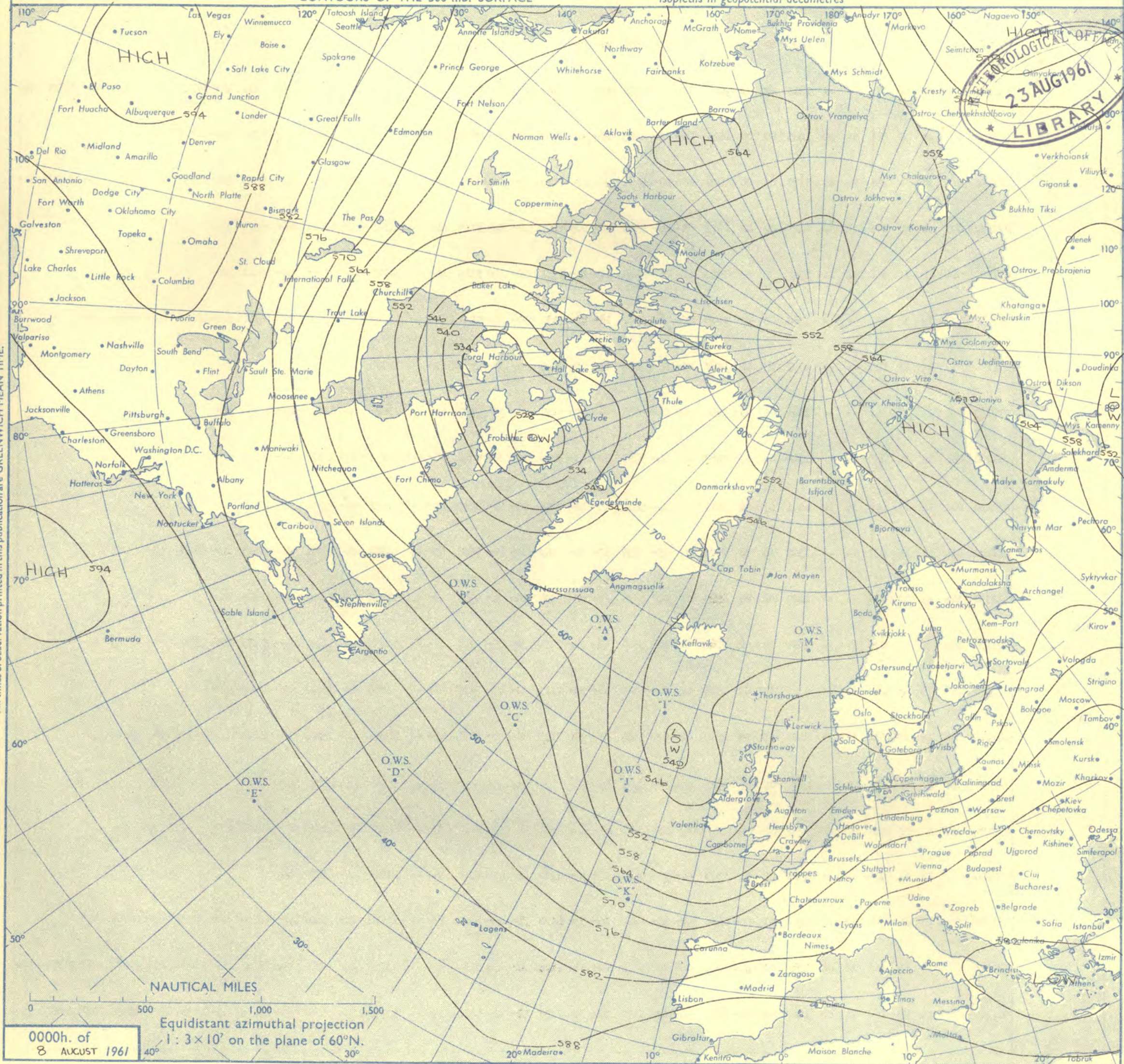
ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



NAUTICAL MILES

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

0000h. of
 8 AUGUST 1961

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C						
LERWICK 03005	072330	082	11	10	094	11	10	1428	02	02	2967	07	13	5537	20	25	7152	32	39	9122	48	++	11715	51	13603	48	16280	47	18642	47										
	081130	082	14	11	079	++	++	1413	02	03	2954	07	15	5528	17	21	7169	27	31	9177	43	++	11790	60	13688	47	16384	44	18765	46	20996	48	24371	47						
STORNOWAY 03026	072350	013	12	09	065	12	09	1405	02	00	2947	06	15	5503	20	25	7118	31	35	9092	47	++	11731	47	13646	45	16351	45	18728	46										
	081130	013	14	10	036	13	10	1375	03	00	2922	06	07	5484	20	23	7109	30	34	9095	46	++	11732	46	13656	44	16376	44	18766	45	21026	43	24483	40						
SHANWELL 03170	072330	005	12	10	075	12	10	1423	04	02	2973	05	06	5549	16	20	7191	28	32	9189	45	++	11800	50	13686	48	16372	47												
	081130	005	12	11	008	12	11	1347	05	03	2903	04	06	5498	17	21	7131	29	34	9115	46	++	11763	46	13693	44	16411	44												
ALDERGROVE 03917	080010	077	12	10	074	++	++	1380	03	02	2928	06	07	5504	18	22	7131	30	35	9111	45	++	11748	48	13656	46	16344	47	18708	47	20931	47								
	081130	077	12	11	000	++	++	1337	03	02	2887	05	08	5464	18	23	7099	28	33	9090	47	++	11788	44																
AUGHTON 03322	072330	056	13	11	051	++	++	1401	05	03	2954	04	05	5555	16	19	7198	28	33	9197	45	++	11816	52	13693	49	16355	49												
	081130	056	12	12	033	++	++	1308	04	03	2867	03	04	5455	19	23	7076	32	37	9046	46	++	11751	44	13675	46	16370	47												
HEMSBY 03496	072330	012	16	13	078	15	12	1441	07	04	3011	01	26	5632	15	18	7284	26	40	9292	43	++	11921	56	13774	53	16403	52	18723	49										
	081130	012	17	14	037	++	++	1328	10	08	2920	02	05	5539	17	37	7169	30	48	9160	43	++	11867	46	13771	48	16443	48	18796	49										
CRAWLEY 03774	072330	144	15	12	050	++	++	1420	09	06	2999	01	00	5638	14	22	7294	26	34	9309	43	++	11944	55	13802	53	16429	52												
	081136	144	16	09	039	++	++	1393	04	02	2962	01	16	5566	16	39	7204	30	49	9188	46	++	11855	49	13738	50	16373	51	18695	51	20830	50								
CAMBORNE 03808	072330	088	15	15	048	++	++	1323	10	09	2919	02	01	5540	16	32	7175	30	47	9177	42	++	11864	46	13766	49	16426	49												
	081140	088	14	13	072	++	++	1423	05	03	2979	04	07	5564	18	39	7195	30	47	9187	44	++	11861	46	13783	46	16475	48	18839	46	21081	46								
VALENTIA 03953	072330	014	09	08	032	10	08	1375	03	01	2921	05	08	5480	22	28	7090	33	40	9050	46	++	11720	46	13640	46														
	081200	014	16	09	052	15	08	1396	03	01	2943	04	12	5500	23	31	7090	36	43	9040	47	++	11750	42	13690	45	16430	47												
Ocean Weather Station 'I' 59°00'N 19°00'W	080100		13	11	008	++	++	1329	02	01	2873	06	11	5410	25	30	6990	39	45	8920	44	++	11640	44	13570	44														
	081200		13	10	024	12	10	1358	01	03	2896	07	13	5420	26	33	6990	39	45	8910	53	++	11570	46	13480	48	16150	48	18500	49	20700	49								
Ocean Weather Station 'J' 52°30'N 20°00'W	080000		12	09	062	12	08	1395	01	01	2940	06	15	5500	20	31	7110	32	43	9080	45	++	11750	45	13670	46	16340	49	18690	47	20920	47	24290	47						
	081200		13	09	100	12	07	1440	01	01	2980	04	15	5550	21	39	7170	31	44	9140	45	++	11790	48	13700	45	16410	44	18800	43	21070	42	24560	45						

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE			
		MSL	Surf.	0°C level		mb	m	°C	
LERWICK 03005	02 3553+	011 002 823	914 06 04 880 ++ 01 850 02 02- 807 ++ 07- 751 ++ 07- 726 ++ 12- 687 08- 15- 664 07- 17- 588 ++ 27- 575 ++ 21- 552 ++ 20- 535 16- 26- 519 ++ 24- 490 ++ 25- 463 ++ 33- 432 ++ 38- 414 31- 39- 342 40- 46- 250 57- 230 61- 223 60- 218 56- 209 52- 184 49- 100 47- 070 47-				230	10840	61-
	02 48439	009 000 809	000 14 11 991 10 07 910 ++ 02 888 ++ 02- 860 ++ 02- 775 02- 07- 739 06- 09- 720 ++ 14- 701 07- 15- 680 06- 23- 642 ++ 19- 630 ++ 21- 595 ++ 17- 569 15- 19- 557 14- 18- 486 17- 21- 430 ++ 27- 351 34- 39- 316 40- 46- 250 53- 223 58- 216 58- 207 60- 200 60- 196 51- 172 47- 100 44- 046 48- 030 47-				207	11570	60-
STORNOWAY 03026	01 40972	008 006 818	981 13 08 861 03 01 768 03- 06- 752 ++ 10- 652 09- 22- 626 ++ 18- 617 ++ 21- 597 12- 22- 544 19- 26- 509 21- 26- 499 20- 25- 393 32- 36- 339 ++ 45- 275 52- 252 56- 250 55- 213 47- 097 45- 058 44-				252	10200	56-
	60 3552+	004 003 800	985 11 08 965 ++ 05 883 ++ 01 788 ++ 02- 742 04- 05- 531 18- 21- 426 26- 30- 329 40- 45- 255 55- 250 55- 199 46- 100 44- 030 40-				255	10150	55-
SHANWELL 03170	02 855++	009 008 796	983 12 08 960 13 06 870 ++ 04 781 01- 04- 770 ++ 05- 750 ++ 03- 731 03- 04- 632 11- 12- 619 10- 14- 590 ++ 24- 547 16- 25- 535 14- 20- 514 15- 18- 504 15- 19- 380 ++ 34- 325 40- 46- 250 55- 237 58- 220 58- 203 51- 145 47- 100 47- 092 47-				237	10720	58-
	63 863++	001 000 779	955 08 06 867 06 04 795 01 01- 497 17- 21- 334 40- 46- 261 54- 250 54- 173 43- 100 44- 090 44-				261	10040	54-
ALDERGROVE 03917	60 3557+	005 995 803	990 12 11 920 ++ 05 814 01 00 640 10- 11- 559 13- 16- 335 ++ 46- 256 55- 250 54- 228 54- 220 50- 154 45- 040 47-				256	10130	55-
	61 562++	000 991 806	982 10 09 829 02 01 796 01- 02- 751 01- 02- 628 10- 14- 404 27- 32- 356 34- 39- 327 ++ 45- 282 51- 269 51- 250 45- 239 43- 174 46-				282	9480	51-
AUGHTON 03322	63 873++	006 999 780	986 14 11 954 ++ 09 870 06 04 755 02- 03- 666 07- 08- 635 06- 07- 575 11- 12- 535 12- 14- 458 ++ 23- 408 ++ 32- 324 40- 46- 280 49- 250 54- 227 59- 212 52- 092 50-				227	11010	59-
	81 874++	996 989 781	973 10 08 773 00 01- 723 02- 03- 491 19- 23- 348 40- 45- 291 47- 250 45- 180 43- 164 46- 090 46- 088 48- ++ 32- 324 40- 46- 280 49- 250 54- 227 59- 212 52- 092 50-				291	09260	47- 164 13080 46-
HEMSBY 03496	03 4557+	009 008 757 682	990 15 11 972 15 04 955 15 06 836 ++ 03 788 ++ 01- 735 ++ 04- 731 02- 06- 712 02 21- 679 ++ 35- 606 ++ 23- 589 09- 29- 584 ++ 30- 570 08- 14- 518 13- 16- 481 ++ 20- 458 ++ 34- 428 ++ 43- 409 25- 39- 369 ++ 44- 314 40- 47- 250 52- 206 59- 196 55- 115 51- 060 48-				206	11720	59-
	02 854++	996 994 673	907 10 08 828 09 06 742 ++ 04- 722 ++ 03- 675 00 08- 627 ++ 15- 609 ++ 22- 510 15- 34- 457 23- 43- 382 32- 50- 343 38- 263 47- 250 45- 070 49-				263	10030	47-
CRAWLEY 03774	25 5257+	006 989 678	967 15 11 943 16 09 781 02 01 763 04 09- 759 ++ 12- 739 02 04- 727 ++ 00 656 01- 02- 576 ++ 09- 560 09- 13- 543 09- 21- 528 ++ 19- 448 ++ 28- 418 ++ 35- 375 ++ 35- 314 ++ 45- 288 44- 250 51- 233 55- 214 57- 189 52- 094 51-				214	11510	57-
	02 786++	005 988 719	972 ++ 07 880 06 03 824 02 00 815 ++ 02 798 05 03- 720 ++ 18- 685 ++ 16- 599 09- 25- 540 12- 32- 384 ++ 50- 297 46- 254 50- 250 50- 229 47- 134 50- 124 53- 093 52- 086 49- 040 50-				254	10290	51-
CAMBORNE 03808	61 8722+	994 984 681	969 ++ 13 841 09 08 804 09 07 784 ++ 04 744 05 02 631 05- 09- 620 ++ 17- 597 06- 10- 550 ++ 28- 513 15- 30- 468 ++ 39- 388 31- 48- 355 33- 257 50- 250 49- 195 45- 143 50- 095 50-				257	10190	50-
	81 69463	009 998 780	981 12 10 938 ++ 06 899 09 06 829 03 01 815 ++ 02- 777 00 02- 761 00 02- 694 ++ 09- 656 ++ 16- 641 08- 13- 626 09- 12- 599 ++ 22- 579 ++ 27- 489 ++ 41- 464 21- 42- 357 35- 50- 250 52- 220 45- 187 44- 107 45- 100 48- 057 45- 045 48- 041 45- 033 49-				249	10410	52-
VALENTIA 03953	01 00900	004 002 805	962 11 08 805 00 02- 730 05- 07- 683 06- 10- 621 12- 15- 577 16- 19- 522 20- 28- 418 30- 36- 337 42- 260 52- 250 50- 225 46- 135 46-				260	10000	52-
	03 635++	005 005 810	982 13 07 888 05 00 764 03- 08- 693 05- 14- 643 10- 17- 555 18- 25- 536 19- 27- 398 36- 43- 323 47- 282 49- 250 44- 233 42- 095 47-				280	09500	49-
Ocean Weather Station 'I' 59°00'N 19°00'W	81 735++	999 999 813	972 11 07 925 07 04 813 00 01- 750 03- 04- 703 ++ 11- 552 19- 25- 502 25- 30- 468 ++ 36- 392 40- 46- 355 46- ++ 339 44- ++ 279 45- 250 43- 226 41- 194 45- 149 44-				355	07800	46- 194 11900 45-
	02 12539	003 003 824	988 11 08 912 05 02 838 ++ 03- 777 03- 06- 753 ++ 07- 713 06- 12- 672 ++ 18- 551 21- 29- 444 33- 41- 387 40- 46 296 54- 281 55- 250 49- 228 46- 172 46- 151 48- 100 48- 046 50-				281	09300	55-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 62400	007 007 820	990 11 07 860 02 00 677 07- 18- 655 08- 18- 579 14- 25- 462 24- 35- 390 34- 45- 356 37- 48- 346 40- 50- 261 51- 250 50- 200 46- 174 45- 100 49- 092 47- 083 49- 070 47- 063 48- 034 43- 020 47-				261	10000	51-
	58430	011 011 820	011 13 09 935 06 03 800 01- 01- 785 02- 02- 757 02- 11- 720 03- 13- 608 10- 27- 503 20- 38- 432 26- 42- 375 35- 46- 333 40- 51- 250 52- 242 53- 230 53- 219 49- 176 46- 140 46- 126 45- 048 42- 029 37-				242	10500	53-

0m	23700m	26400m	30900m
10	160 09		
07	150 07		
07			
07			

METEOROLOGICAL OFFICE
23 AUG 1961
LIBRARY

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
081235	60.7°N 29.7°W	010 003 782	061 09 09	085	06 06	951 05 05	1417 05 05	1908 01 01	01-- 01--	2972 05-- ++	09-- ++	4164 13-- ++	18-- ++	5526 23-- ++
Cloud :— 8/8 Sc 600 to 2200 ft. 8/8 Ns 2400 to 10000 ft. 4/8 As 15000 to 18000 ft. 4/8 Cs, 21000 to 22000 ft. 6/8 Cs, 28000 to T.N.G. 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.			

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	213mb 230 36 075mb 210 11 19200m 180 10	
STORNOWAY 03026	062mb 180 07 21520m 170 08 08570/0 09110/0 10680/1 223mb 180 31 033mb 110 02 15600m 190 12 11690/2	210 66 09850m 190 70 09860m
SHANWELL 03170	11110/1 01560/1 10760/2	
ALDERGROVE 03917	08100m 200 46 11150m 210 42 04020/2 07900/0 10390/1 10830/1 06600m 160 25 17800m 220 12 04300/2 07000/1 10020/4 17200m 220 14 07000/5 08450/0 09880/4	190 88 10190m
AUGHTON 03322	P18000m 210 15 22800m 160 11	200 82 10820m
HEMSBY 03496	278mb 230 71 122mb 230 38 13000m 200 32 06100m 240 79 22050m 210 09 06100/0 16700m 230 23 10660/1	230 100 11320m 230 101 07700m 230 90 10000m
CRAWLEY 03774	349mb 220 58 14870/1 13200m 230 59 04490/0	214 104 10910m 220 63 11530m 240 90 09220m 230 88 10500m
CAMBORNE 03808	279mb 210 30 105mb 220 33 08430/0 09700/0 13130/1 186mb 240 52 123mb 240 34 11790/1	230 82 09180m 240 83 09000m 240 79 09630m
VALENTIA 03953	465mb 250 15 438mb 220 18 247mb 200 39	
Ocean Weather Station 'I' 59°00'N 19°00'W	09600m 040 22 14700m 260 03 09430/1	
Ocean Weather Station 'J' 52°30'N 20°00'W	630mb 310 18 261mb 290 78 078mb 270 09 040mb 140 07 023mb 140 10 351mb 320 67 173mb 320 67 176mb 300 23 117mb 290 19 105mb 250 06 080mb 000 00 041mb 000 00	290 78 10000m
LARKHILL 03743	17370m 190 29	210 66 09700m 250 94 08200m

NOTES ON THE AEROLOGICAL SITUATION

The low vortex over Baffin Island continues to move east slowly. The broad ridge over the Atlantic is also progressing eastwards. The low west of Scotland is moving southeast while the trough extending southeast across Ireland and Brittany is moving quickly eastnortheast. The ridge over the North Sea is moving steadily northeast and the old low over the Norwegian Sea is becoming ill-defined. The trough over Sweden and the Baltic continues to move east weakening the ridge which extends northwards over Russia to the high centre east of Spitzbergen. The cut-off low over Greece is moving slowly east.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropo- pause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb. 102	°C -68.1	mb. ...	mb. 72	°C ...	°C -75
Lower	(195)	(-59.1)	...	...	...	...

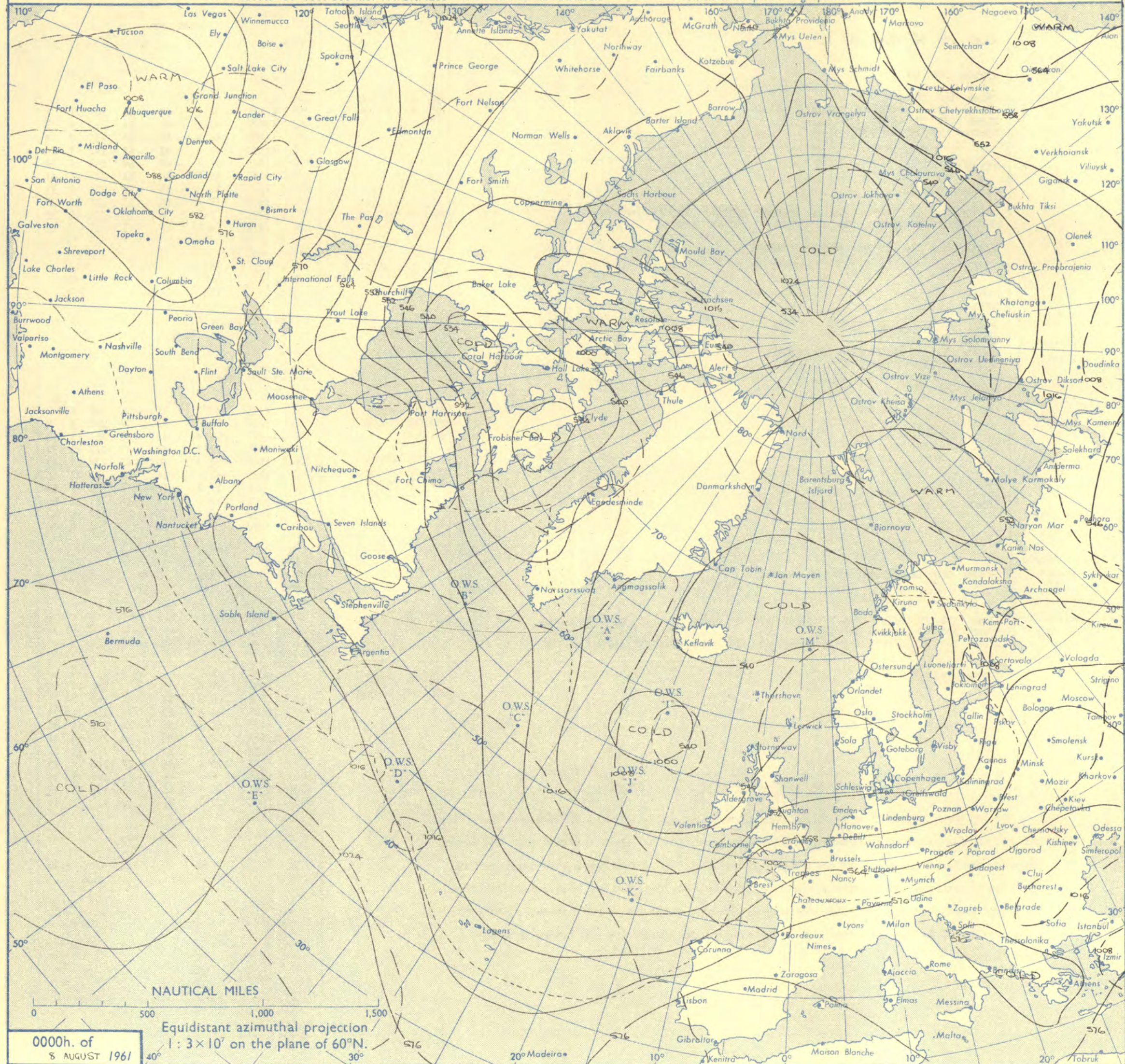
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

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

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

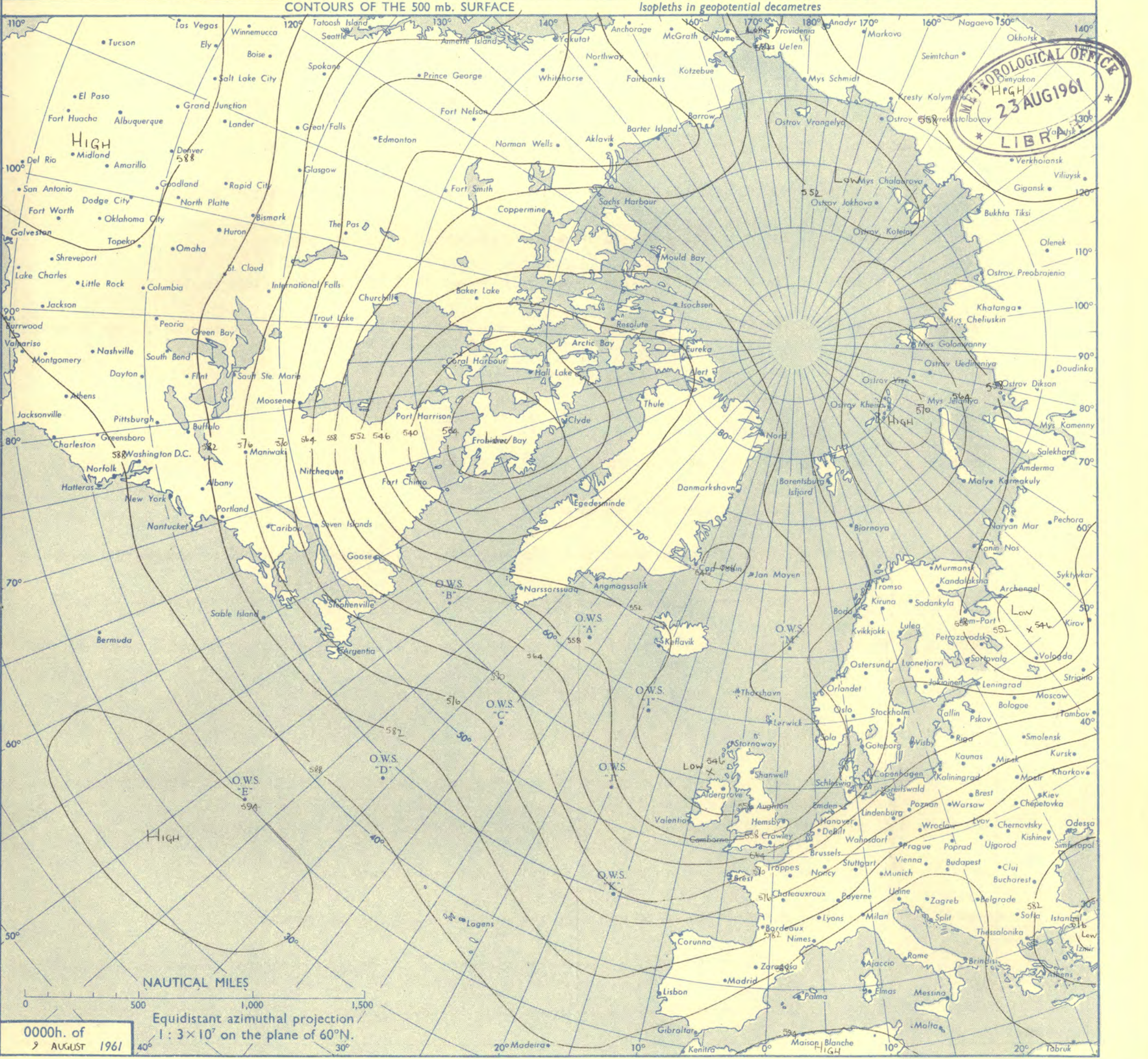
ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

Thickness isopleths in geopotential decametres



NAUTICAL MILES

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



METEOROLOGICAL OFFICE
HqH
23 AUG 1961
LIBRARY

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	082334	082	11	10	042	++	++	1382	04	04-	2936	06-	12-	5501	20-	23-	7126	29-	32-	9112	46-	++	11724	49-	13627	47-	16314	45-																
	091130	082	14	11	007	++	++	1349	03	01	2898	05-	07-	5473	20-	24-	7088	32-	37-	9054	48-	++	11734	43-	13672	43-	16401	44-	18797	44-														
STORNOWAY 03026	082335	013	12	10	035	12	10	1373	04	03	2930	04-	05-	5503	21-	24-	7115	32-	36-	9079	48-	++	11724	45-	13641	45-																		
	091133	013	13	10	067	12	08	1400	01	00	2941	06-	10-	5498	21-	24-	7108	32-	36-	9075	47-	++	11725	44-	13655	45-	16367	44-	18769	43-														
SHANWELL 03170	082330	005	12	12	009-	++	++	1335	05	04	2898	03-	04-	5491	19-	21-	7114	31-	34-	9079	48-	++	11759	44-	13680	46-																		
	091130	005	12	11	060	11	09	1394	02	00	2939	06-	08-	5498	21-	24-	7103	34-	38-	9066	47-	++	11771	42-	13705	45-	16417	45-	18803	45-														
ALDERGROVE 03917	090020	077	11	09	045	++	++	1382	02	01	2923	06-	14-	5473	23-	34-	7072	35-	45-	9012	50-	++	11688	45-	13607	46-	16292	48-	18648	47-	20870	48-	24236	47-										
	091130	077	14	08	066	++	++	1404	02	01	2943	08-	12-	5473	26-	34-	7051	38-	42-	9016	43-	++	11738	44-	13665	46-	16360	46-	18733	45-														
AUGHTON 03322	082330	056	13	09	056	13	09	1403	04	01	2950	06-	14-	5507	21-	34-	7109	35-	47-	9058	48-	++	11757	44-	13683	45-																		
	091130	056	15	09	102	14	09	1440	02	01	2986	05-	13-	5546	22-	35-	7159	32-	45-	9130	46-	++	11796	47-	13706	46-	16386	46-	18752	48-	20978	47-												
HEMSBY 03496	082330	012	14	11	077	14	11	1428	06	01	2988	03-	17-	5575	19-	41-	7199	31-	++	9177	46-	++	11854	45-	13764	47-																		
	091130	012	19	07	123	17	07	1475	04	02	3031	02-	18-	5621	18-	31-	7249	30-	43-	9243	44-	++	11890	49-	13788	48-	16455	48-	18801	48-	21014	50-	24385	45-										
CRAWLEY 03774	082330	144	12	10	113	++	++	1457	03	01-	3006	04-	19-	5592	19-	38-	7212	31-	47-	9183	47-	++	11834	48-	13724	50-	16377	50-	18714	49-														
	091130	144	17	10	144	17	10	1495	05	02	3049	02-	14-	5651	18-	32-	7275	30-	43-	9259	46-	++	11886	51-	13760	50-	16417	50-	18756	49-	20973	49-												
CAMBORNE 03808	082330	088	11	08	124	12	09	1465	03	00	3015	04-	17-	5593	20-	37-	7204	33-	44-	9168	48-	++	11800	49-	13688	49-	16353	49-	18693	49-														
	091130	088	18	14	150	16	11	1498	03	02	3045	06-	16-	5621	20-	33-	7241	30-	42-	9221	46-	++	11842	49-	13743	47-	16419	47-	18772	48-														
VALENTIA 03953	090001	014	13	11	098	13	11	1437	02	01-	2983	06-	14-	5550	21-	33-	7160	32-	45-	9130	45-	++	11820	45-	13750	44-	16440	47-	18810	47-	21040	47-												
	091130	014	16	12	123	14	10	1464	02	01-	3008	06-	13-	5570	22-	26-	7170	34-	39-	9110	51-	++	11770	45-	13680	47-	16370	46-	18740	46-														
Ocean Weather Station 'I' 59°00'N 19°00'W	090001		13	10	074	12	10	1411	03	01-	2960	06-	08-	5550	25-	28-	7080	37-	40-	9020	50-	++	11680	47-																				
	091200		13	11	124	11	09	1458	03	00	3004	06-	09-	5550	25-	31-	7130	36-	43-	9070	51-	++	11720	45-	13630	47-	16320	46-																
Ocean Weather Station 'J' 52°30'N 20°00'W	090001		13	08	138	11	09	1460	01	00	3017	04-	25-	5590	20-	26-	7210	32-	37-	9170	++	++	11820	49-	13710	48-	16380	47-	18730	47-	20960	47-	24350	++										
	091200		15	09	148	12	10	1490	04	00	3053	04-	04-	5630	20-	23-	7250	31-	35-	9230	45-	++	11900	47-	13800	46-	16490	46-	18850	45-	21110	44-	24550	42-										

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 45728	005 995 772	941 08 06 924 09 04 918 ++ 01 798 02 06- 678 08- 13- 657 09- 13- 394 30- 33- 332 40- 44- 250 56- 243 58-	216 58- 203 49- 182 47- 115 48- 100 45-		243	10480	58-
	80 884++	001 991 803	985 12 10 852 03 01 770 ++ 03- 719 04- 07- 656 ++ 08- 616 ++ 14- 476 22- 28- 347 40- 46- 306 48- 270 52-	250 50- 216 44- 100 44- 070 44-		270	09750	52-
STORNOWAY 03026	21 855++	004 003 778	980 ++ 07 906 06 04 794 ++ 00 619 07- 08- 393 33- 37- 346 40- 45- 266 54- 253 55- 250 55- 238 54- 227 47- 253 10190 55-	142 45-		253	10190	55-
	02 58506	008 006 831	002 12 09 985 ++ 08 927 ++ 02 844 00 01- 800 01- 03- 768 04- 05- 747 03- 08- 730 ++ 10- 715 ++ 09- 425 247 10340 55-	29- 33- 343 40- 43- 266 53- 250 54- 247 55- 218 45- 166 43- 152 45- 090 43- 051 44-		247	10340	55-
SHANWELL 03170	63 862++	999 998 751	995 ++ 10 823 ++ 03 799 01 00 751 00 01- 573 11- 13- 428 27- 29- 348 40- 43- 265 53- 250 48- 245 45- 128 265 39900 53-	46-		265	39900	53-
	61 8532+	007 006 808	940 ++ 03 810 00 01- 770 ++ 06- 740 ++ 06- 590 13- 16- 435 29- 34- 348 40- 46- 295 48- 250 46- 196 42- 100 295 09160 48-	45- 057 44-		295	09160	48-
ALDERGROVE 03917	01 25600	006 996 815	934 08 06 801 01- 02- 767 02- 06- 728 ++ 12- 615 12- 24- 480 25- 36- 364 ++ 50- 348 44- 285 53- 269 53-	250 47- 234 45- 102 48- 067 47- 030 47-		285	09350	53-
	80 734++	008 999 818	978 11 07 883 04 02 785 ++ 03- 510 25- 35- 472 ++ 34- 388 40- 44- 372 38- 44- 333 40- 48- 298 44- 250 45- 298 09050 44-	160 44- 147 46- 066 45-		298	09050	44-
AUGHTON 03322	01 24500	007 000 800	977 13 09 905 08 03 885 ++ 05 822 02 02- 761 04- 06- 749 03- 07- 726 04- 12- 586 ++ 26- 495 22- 35- 361 303 09000 48-	40- ++ 303 48- 250 46- 210 44- 104 48-		303	09000	48-
	02 48562	012 005 803	853 02 00 830 01 00 721 05- 11- 701 ++ 13- 598 13- 26- 402 32- 45- 350 39- 49- 268 50- 250 50- 207 47- 268 09870 50-	109 48- 097 45- 038 50-		268	09870	50-
HEMSBY 03496	01 28500	009 008 789 747	848 05 00 771 01- 03- 755 00 07- 744 ++ 13- 615 08- 28- 520 ++ 40- 393 32- 50- 289 48- 268 51- 250 50- 268 09910 51-	222 45- 156 46- 137 49- 105 48-		268	09910	51-
	03 625++	015 013 729	007 17 06 866 ++ 04 811 01 00 782 01 04- 771 01 10- 749 01 13- 690 03- 19- 562 12- 31- 483 29- 33- 342 234 10860 53-	37- 50- 250 52- 234 53- 188 48- 040 49- 030 45-		234	10860	53-
CRAWLEY 03774	02 00900	013 996 784	980 13 08 932 ++ 05 881 ++ 00 844 03 01- 810 ++ 05- 777 ++ 11- 728 03- 15- 665 05- 22- 603 09- 29- 371 ++ 270 09880 51-	50- 288 49- 270 51- 250 51- 204 48- 089 51- 054 48-		270	09880	51-
	25 686++	017 000 788	985 15 07 912 09 06 814 ++ 02- 765 02- 04- 719 ++ 12- 686 02- 15- 630 06- 23- 572 09- 27- 515 17- 31- 350 248 10500 55-	37- 49- 250 55- 248 55- 228 55- 211 51- 050 49-		248	10500	55-
CAMBORNE 03808	02 00900	015 004 797	985 13 11 914 08 06 858 ++ 00 811 01 01- 762 ++ 10- 603 10- 31- 528 17- 40- 415 31- 41- 365 37- 50- 265 265 09980 54-	54- 250 54- 235 55- 225 49- 067 49-		265	09980	54-
	02 58403	018 007 795	998 16 11 980 ++ 08 941 10 06 884 ++ 04 829 01 00 795 00 01- 750 ++ 05- 745 05- 07- 724 ++ 14- 677 06- 248 10460 56-	19- 600 12- 31- 586 11- 32- 558 ++ 29- 333 40- 49- 250 56- 248 56- 230 56- 209 50- 181 47- 063 47-		248	10460	56-
VALENTIA 03953	25 53500	119 010 820	961 11 09 891 05 02 800 01- 05- 827 10- 21- 434 28- 41- 286 46- 250 51- 243 52- 230 45- 162 43- 129 47- 243 10020 52-			243	10020	52-
	02 53501	015 013 810	933 08 06 858 03 00 753 03- 05- 664 08- 20- 579 14- 26- 544 18- 22- 405 33- 37- 276 55- 250 50- 236 47- 276 09700 55-	105 46- 069 45-		276	09700	55-
Ocean Weather Station 'I' 59°00'N 19°00'W	01 14545	009 009 781	995 ++ 10 910 06 04 890 06 03 868 ++ 01- 830 02 01- 808 01 05- 768 01- 06- 741 03- 09- 726 ++ 08- 685 ++ 09- 625 11- 15- 550 19- 22- 520 ++ 26- 455 31- 33- 374 40- 43- 308 49- 267 52- 254 51- 250 50- 237 46- 195 277 10000 52-	47-		277	10000	52-
	03 28539	015 015 800	996 11 09 916 ++ 03 883 04 01 810 01 02- 778 02- 05- 750 03- 05- 726 ++ 06- 665 ++ 13- 619 ++ 16- 573 ++ 22- 557 18- 24- 503 24- 30- 452 30- 34- 408 ++ 42- 373 40- 45- 329 47- 274 54- 250 51- 227 47- 203 45- 165 274 09700 54-	47- 100 46- 083 47-		274	09700	54-
Ocean Weather Station 'J' 52°30'N 20°00'W	62400	016 016 820	970 07 07 905 04 01 890 03 02 817 00 02- 807 00 05- 775 00 12- 750 02- 13- 687 05- 28- 620 08- 27- 576 13- 23- 500 20- 26- 437 27- 32- 348 40- 43- 314 46- 233 53- 200 49- 037 47-					
	01 68400	017 017 750	995 11 11 925 07 07 882 05 01 840 04 00 800 02 02 750 00 00 700 04- 04- 627 08- 08- 600 10- 12- 534 16- 20- 434 27- 32- 330 40- 45- 300 45- 269 49- 250 50- 241 51- 200 47- 100 47- 027 43- 020 40- 241 10700 51-			241	10700	51-

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	082334	T	040 14	+++ ++	080 19	090 15	090 19	090 20	080 13	090 14	090 18	110 26	120 24	160 13	180 13						
	090530	P	020 15	+++ ++	040 25	040 29	040 28	050 24	050 13	080 09	100 12	060 14	070 16	180 07	180 08	240 09	160 09	170 08	120 05		
	091130	T	030 17	+++ ++	020 26	020 27	030 34	040 16	040 05	360 08	020 13	010 25	020 07	200 05	200 12	210 12	150 06	170 08			
	091730	P	360 13	+++ ++	020 23	010 17	350 14	360 11	330 07	320 07	360 17	350 22	330 10	340 10	230 09	210 10	220 08	190 05			
STORNOWAY 03026	082335	T	050 12	+++ ++	060 16	080 13	100 14	110 16	110 13	120 16	130 16	120 31	140 27	170 07							
	090530	P	050 14	+++ ++	050 08	040 11	040 15	020 12	030 08	030 07	070 11	110 20	110 24	160 07	150 07						
	091130	T	030 11	+++ ++	040 08	030 07	020 12	360 14	340 14	340 15	020 09	060 20	100 23	210 05	210 07	200 11	170 06				
	091730	P	010 10	+++ ++	010 14	350 13	350 14	350 11	350 14	350 12	360 14	020 20	050 10	240 05	220 04	240 10	180 06				
SHANWELL 03170	082330	T	290 08	+++ ++	360 21	360 18	350 15	360 12	360 11	310 08	050 09	110 16	180 11	200 18	200 18						
	090535	P	260 09	+++ ++	350 10	340 06	300 06	290 11	310 08	300 06	150 06	110 13	190 11	230 17	230 13	200 14	220 09				
	091130	T	270 08	+++ ++	260 09	270 12	250 15	270 17	070 04	110 05	100 16	090 28	210 17	220 20	220 19	210 11	200 06				
	091730	P	280 06	+++ ++	270 18	250 18	250 16	270 14	240 12	350 03	050 22	080 17	250 13	220 17	220 14	240 11	220 09				
ALDERGROVE 03917	082330	P	260 10	+++ ++	280 25	270 23	270 22	270 22	250 21	240 19	190 15	140 30	230 18	220 19	230 18	210 14					
	090530	P	220 12	+++ ++	260 23	260 25	260 24	250 22	250 19	250 19	160 09	210 19	230 24	240 21	230 18	230 13	210 09	220 07			
	091130	T	270 15	+++ ++	240 14	240 15	240 16	240 15	260 15	250 17	260 30	250 40	250 21	230 21	230 19	210 09	200 10				
	091730	P	220 02	+++ ++	280 13	290 17	290 22	280 20	290 18	280 17	290 13	260 28	250 15	240 17	220 13	230 19					
AUGHTON 03322	082330	T	250 13	+++ ++	270 33	260 34	260 34	270 32	270 35	260 31	250 27	240 25	250 34	230 39	230 23						
	090530	P	240 15	+++ ++	260 30	260 30	270 31	270 32	250 36	250 36	250 46	250 79	250 51	240 34	230 25	220 19	230 13				
	091130	T	210 17	+++ ++	240 21	240 23	240 27	250 28	240 36	240 47	240 62	240 73	240 56	230 38	230 35	220 15	180 10	190 10			
	091730	P	230 10	+++ ++	240 26	240 30	240 29	250 32	250 32	240 39	240 48	220 59	220 43	230 36	230 26	230 15	200 15				
HEMSBY 03496	082330	T	230 15	+++ ++	260 33	260 34	250 34	240 42	240 50	230 59	230 71	230 89	230 82	230 63	230 42						
	090530	P	240 12	+++ ++	250 28	250 31	250 33	250 36	250 40	250 57	250 72	240 78	240 75	240 59	230 45	220 33	220 15	080 07			
	091130	T	210 15	+++ ++	240 22	240 25	250 28	250 29	250 39	240 48	240 55	240 58	230 62	230 59	230 39	220 33	200 22	170 22			
	091730	P	230 10	+++ ++	230 20	240 20	250 21	250 20	230 32	230 44	230 55	230 67	240 72	230 54	220 44	220 27					
CRAWLEY 03774	082330	T	250 07	+++ ++	260 30	260 32	260 32	250 40	240 48	240 65	240 60	240 80	230 82	230 64	230 50						
	090530	P	250 10	+++ ++	260 26	260 24	260 27	260 31	250 44	250 47	250 57	240 65	240 66	240 60	240 52	220 29	240 16				
	091130	P	250 09	+++ ++	250 18	250 20	240 19	240 25	240 31	250 40	240 51	240 58	230 70	230 62	230 45	220 32	210 15	140 10	190 04	110 13	
	091730	P	240 08	+++ ++	250 14	250 14	250 16	240 23	230 31	230 36	230 56	230 73	230 79	240 62	230 48	230 31	230 19	200 15	110 08		
CAMBORNE 03808	082330	T	200 06	+++ ++	270 26	280 24	280 26	270 29	260 38	260 47	250 55	250 58	250 59	240 50	250 36	250 20	190 25				
	090530	P	220 08	+++ ++	260 21	270 24	270 26	260 25	260 32	250 44	250 45	250 47	240 47	240 44	230 36	240 24	220 16				
	091130	T	240 16	+++ ++	250 17	250 16	250 19	250 25	250 27	240 36	230 49	230 57	230 57	230 54	240 34	220 17	230 15				
	091730	P	270 14	+++ ++	250 17	250 17	250 17	250 19	250 28	240 38	250 50	250 51	230 70	240 41	230 33	230 28	210 19				
VALENTIA 03953	090001	T	280 15		280 16	270 30	270 34	280 31	280 34	270 44	270 43	270 52	280 70	280 69	270 43	250 25	240 19	230 12	210 07		
	091130	T	270 13		270 16	290 20	290 21	280 24	280 26	270 26	260 30	260 32	240 38	250 38	260 26	240 20	220 14	220 07			
Ocean Weather Station 'I' 59°00'N 19°00'W	090001	T	360 12	+++ ++	030 09	030 07	030 09	040 09	060 09	080 07	060 09	050 11	050 05								
	090600	P	045 10	+++ ++	020 08	030 07	030 14	020 09	010 15	360 11	360 11	090 10	010 07	340 09	330 11	360 03	000 00	000 00	000 00		
	091200	T	010 12	+++ ++	360 10	360 11	010 26	360 10	350 12	350 12	010 09	130 09	040 05	360 11	350 10	330 06					
	091800	P	315 10	+++ ++	330 09	310 10	330 10	340 12	330 11	330 10	350 07	150 08	320 07	340 17	340 15	340 12	000 00				
Ocean Weather Station 'J' 52°30'N 20°00'W	090001	T	240 14		290 14	300 13	280 14	300 18	300 23	300 25	290 30	300 42	300 32	290 33							
	090600	T	290 06	+++ ++	290 14	300 22	300 27	310 29	300 32	300 34	300 43	300 73	300 73	300 42	300 31	300 23	300 11				
	091200	T	030 04	+++ ++	+++ ++	+++ ++	+++ ++	+++ ++	270 24	300 16	330 25	330 30	320 37	320 44	310 29	320 20	320 02				
	091800	P	080 02	+++ ++	+++ ++	+++ ++	+++ ++	330 13	310 29	320 34	310 43	310 45	310 45	310 37	290 37	290 16					
LARKHILL 03743	090630	P	230 08	+++ ++	270 21	260 24	250 27	260 30	250 40	250 48	240 56	240 53	230 59	230 53	240 47	230 26	220 14				
	090900	T	240 10	+++ ++	250 18	250 22	250 24	260 26	250 35	250 42	240 49	240 56	240 57	230 56	230 42	230 27	200 14	170 15			

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			

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	106mb 190 11 25500m 140 05 22200m 170 05 21300m 190 05	
STORNOWAY 03026	156mb 200 13 13800m 150 07 10880/4 057mb 220 04 20000m 210 07	
SHANWELL 03170	061mb 180 09 06350m 040 12 20600m 190 06	
ALDERGROVE 03917	18000m 200 13 07680/5 09670/4 06800m 240 15 07280/5 08800/2 268mb 250 29 08300/6 09810/1	
AUGHTON 03322	110mb 220 25 08030/0 08590/0 10180/1 040mb 150 05 20400m 230 10 10060/1	250 80 09350m 240 75 09270m 220 61 09840m
HEMSBY 03496	114mb 230 32 034mb 150 13 17800m 230 18	230 90 09380m 240 79 09170m 230 70 09750m 230 75 09610m
CRAWLEY 03774	20400m 200 15	230 74 11100m 230 71 10460m 230 86 10480m
CAMBORNE 03808	19800m 240 11 09390/0 09840/0 10370/1	240 62 10290m 230 78 10090m
VALENTIA 03953		280 78 09720m
Ocean Weather Station 'J' 59°00'N 19°00'W	203mb 050 03 08100m 050 09 09900m 040 06 24000m 000 00 348mb 060 07 258mb 100 04 088mb 320 05 08200/8 09970/8	
Ocean Weather Station 'J' 52°30'N 20°00'W	338mb 300 41 314mb 300 33 204mb 300 35 285mb 300 88 066mb 300 11 670mb 270 17 208mb 320 45 125mb 320 17 054mb 320 02 706mb 330 13 440mb 310 49 263mb 310 50 093mb 290 15	
LARKHILL 03743	14400/1	230 64 10900m 230 64 11000m

NOTES ON THE AEROLOGICAL SITUATION

The complex low over the northern part of the British Isles is drifting northeast while troughs circulate round it. The upstream ridge is intensifying as warm air is carried northwards over the western Atlantic. A low persists over Baffin Island while a vigorous trough in its circulation is moving into the Davis Strait.

AVERAGE AND EXTREME VALUES 1951-55							
AUGUST							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22435	-47.1	-44	-56	201	3	7
60	19760	-48.1	-41	-54	213	4	9
100	16400	-48.3	-42	-57	235	9	14
150	13730	-48.4	-42	-63	242	13	24
200	11845	-49.7	-40	-64	243	16	34
300	9190	-44.7	-34	-53	232	17	41
400	7205	-30.0	-19	-39	230	15	33
500	5580	-18.4	-10	-27	229	13	27
700	2985	-2.7	4	-10	230	10	20
850	1425	4.8	16	-2	229	7	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		243	-54.8		10645		
Max.		367	-38		13990		
Min.		150	-66		7590		
LARKHILL/CRAWLEY† at 03, 15h.							
(Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22425	-49.2	-45	-56	158	2	6
60	19780	-50.8	-43	-57	224	3	9
100	16470	-52.4	-43	-62	267	13	18
150	13845	-52.3	-42	-69	273	23	31
200	11980	-52.4	-40	-63	274	29	43
300	9325	-42.4	-34	-52	271	27	45
400	7320	-27.2	-18	-37	270	23	36
500	5680	-15.7	-8	-24	267	20	30
700	3060	0.1	7	-6	262	14	22
850	1480	7.7	17	2	260	10	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		226	-55.9		11245		
Max.		343	-41		14235		
Min.		145	-67		8230		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22330)	(-55.6)	...	...	100	14	15
60	19780	-60.8	-54	-68	110	7	11
100	16655	-66.8	-58	-74	250	21	24
150	14175	-60.2	-53	-70	255	41	45
200	12345	-50.9	-44	-59	265	44	49
300	9620	-35.2	-29	-44	275	31	37
400	7555	-20.4	-16	-27	285	23	29
500	5865	-8.6	-4	-14	290	19	24
700	3170	8.9	13	1	310	15	19
850	1540	18.4	27	12	310	7	11
Tropo- pause		Average	Max.	Min.	Max.	Min.	
		Press.	Press.	Press.	Temp.	Temp.	
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		(195)	(-59.1)	...	...	...	...
* V _R = Vector average wind. V _S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.							
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.							
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.							

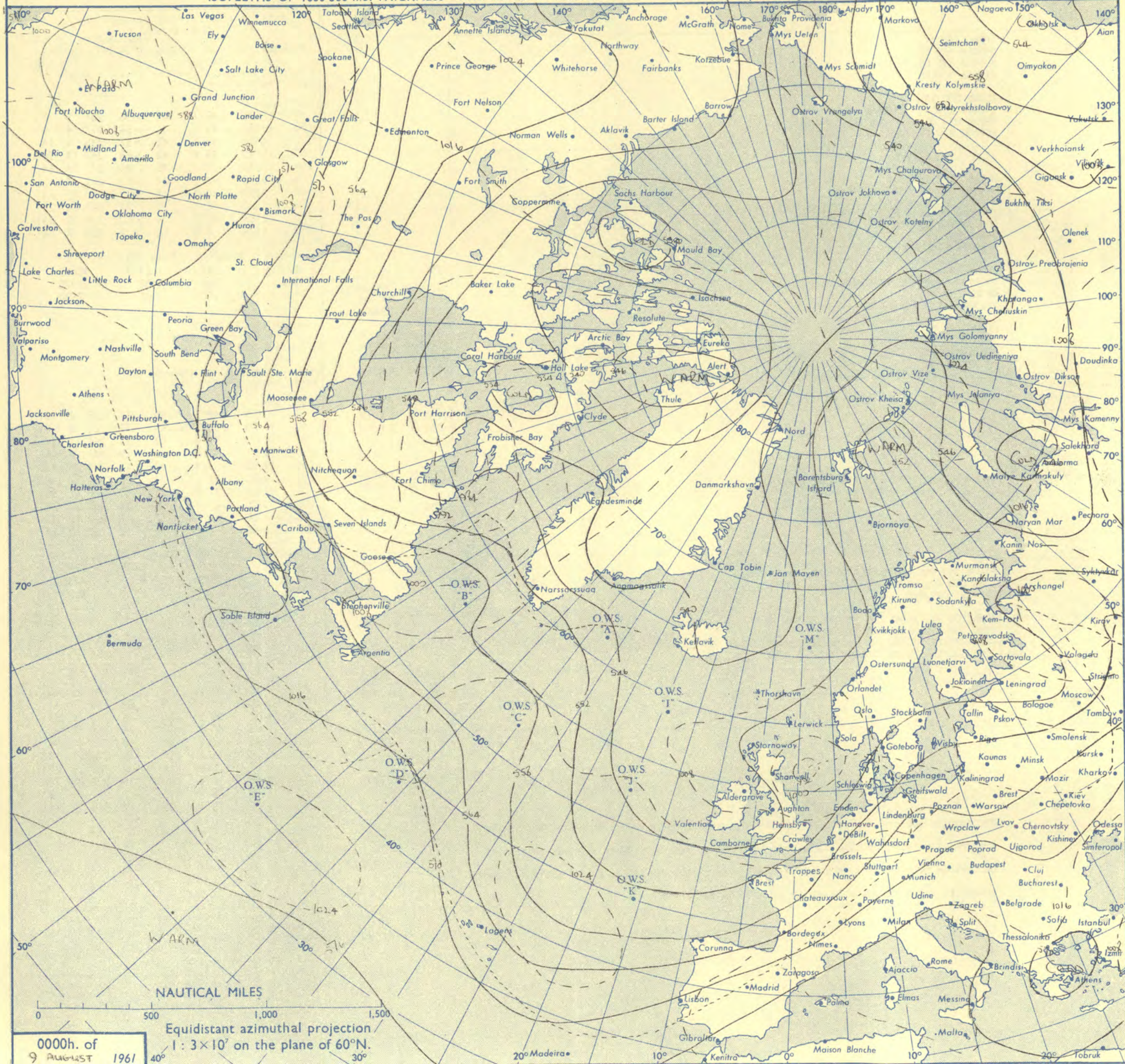
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

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

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

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

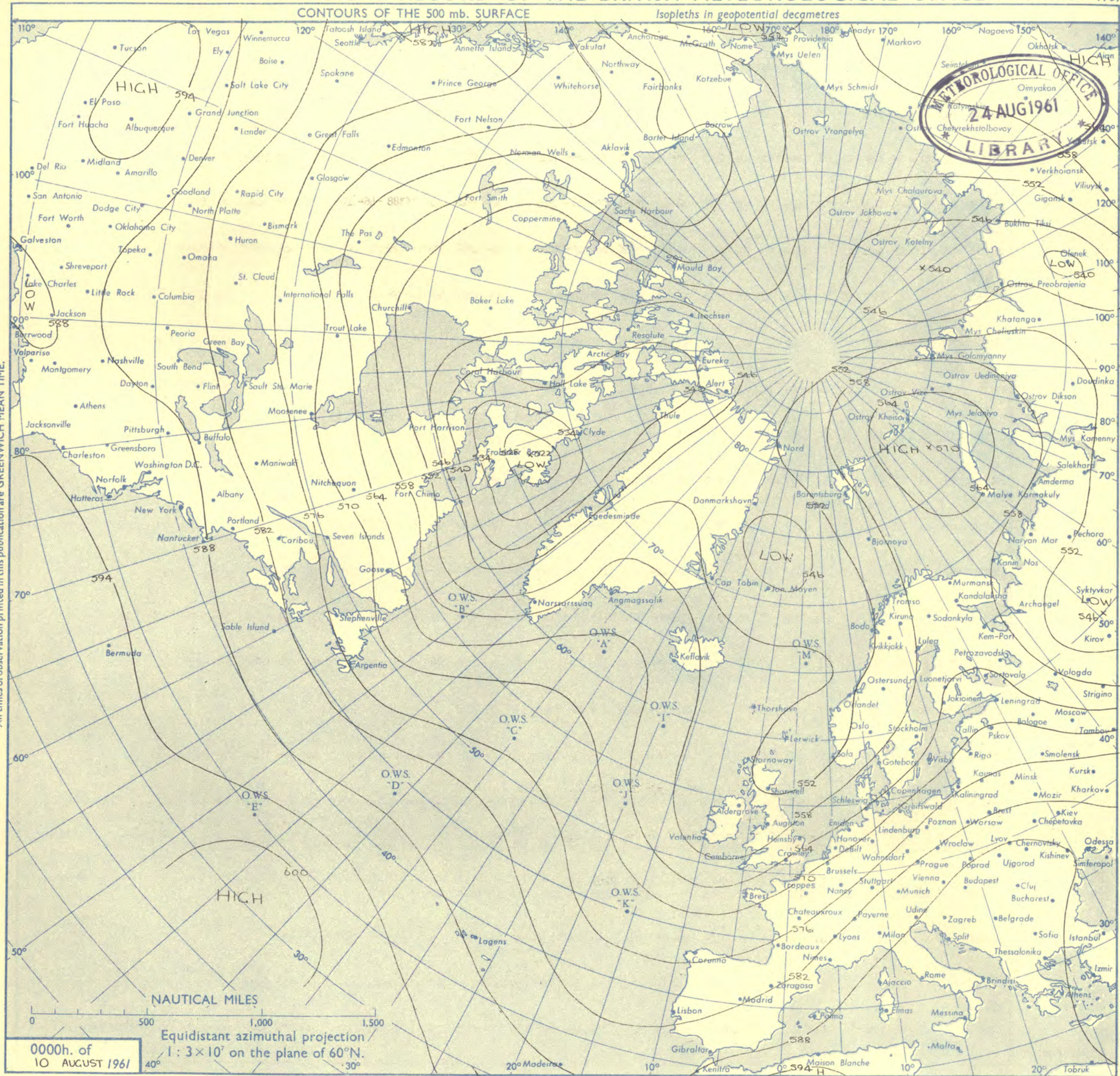
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



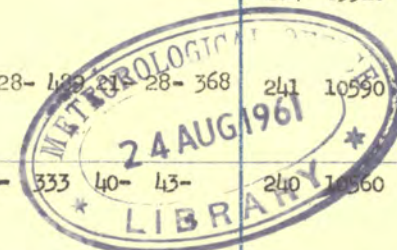
HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

10 August

1961

STATION	YYGGgg	SURFACE		1000mb		850mb		700mb		500mb		400mb		300mb		200mb		150mb		100mb		70mb		50mb		30mb			
		gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C		
LERWICK 03005	092330	082	11 11	057	++ ++	1392	03 02	2941	05- 07-	5503	21- 26-	7114	32- 37-	9079	47- ++	11758	44-	13685	45-										
	101130	082	10 09	108	10 08	1439	03 00	2988	06- 17-	5546	21- 28-	7168	30- 38-	9153	45- ++	11817	43-	13753	44-	16475	44-	18868	44-	21126	44-				
STORNOWAY 03026	092330	013	11 09	109	10 08	1441	02 01-	2977	08- 09-	5519	22- 25-	7129	31- 33-	9109	46- ++	11745	47-	13660	45-	16357	46-	18732	46-	20969	46-				
	101135	013	13 09	145	11 06	1475	01 03-	3011	06- 20-	5564	22- 28-	7183	31- 41-	9166	45- ++	11793	49-	13706	45-	16406	45-	18786	46-	21025	47-	24401	47-		
SHANWELL 03170	092330	005	10 09	091	11 08	1432	03 01	2978	06- 08-	5526	23- 27-	7121	34- 38-	9076	48- ++	11764	45-	13687	46-	16388	46-	18759	46-						
	101130	005	14 09	129	12 08	1464	02 01	3008	07- 08-	5560	22- 27-	7170	32- 40-	9130	48- ++	11786	47-	13699	46-	16407	44-	18784	45-	21032	44-				
ALDERGROVE 03917	092330	077	11 10	105	11 09	1442	03 00	2986	06- 11-	5531	23- 29-	7123	36- 40-	9056	50- ++	11728	46-	13643	46-	16337	46-	18702	47-	20930	47-	24327	46-		
	101130	077	15 07	132	14 08	1469	02 01-	3011	08- 10-	5564	22- 25-	7169	34- 38-	9125	49- ++	11794	45-	13713	45-	16419	46-	18792	45-	21046	45-				
AUGHTON 03322	092330	056	12 10	118	12 09	1463	04 01	3009	06- 12-	5556	23- 26-	7156	34- 40-	9097	49- ++	11792	44-	13710	47-	16398	46-								
	101130	056	16 10	135	14 08	1479	04 02-	3028	05- 17-	5598	21- 36-	7206	33- 46-	9169	48- ++	11831	47-	13740	46-	16430	46-								
HEMSBY 03496	092330	012	14 11	132	15 10	1487	06 01	3047	06- 07-	5630	19- 28-	7256	30- 40-	9236	45- ++	11894	48-	13792	49-										
	101130	012	21 10	146	17 08	1499	04 02	3056	02- 12-	5665	17- 21-	7300	29- 33-	9300	43- ++	11951	50-	13849	48-										
CRAWLEY 03774	092330	144	12 11	151	12 11	1499	05 03-	3052	03- 20-	5646	18- 29-	7273	31- 44-	9247	45- ++	11889	49-	13779	49-	16434	49-	18782	48-						
	101136	144	19 09	146	18 09	1497	04 00	3053	04- 18-	5646	18- 22-	7273	30- 34-	9258	45- ++	11895	50-	13782	49-	16449	49-	18801	49-						
CAMBORNE 03808	092330	088	11 09	148	12 09	1490	04 00	3041	04- 10-	5629	20- 23-	7248	31- 34-	9219	48- ++	11866	47-	13769	48-	16441	49-								
	101130	088	13 12	133	12 10	1468	03 02	3015	05- 06-	5598	20- 33-	7212	32- 45-	9173	49- ++	11845	45-	13760	45-	16449	47-	18826	46-						
VALENTIA 03953	092334	014	13 10	137	12 09	1479	04 02	3026	06 14-	5570	24- 33-	7150	37- 45-	9090	48- ++	11780	45-	13700	47-	16390	47-								
	101130	014	16 12	146	12 09	1483	03 01	3031	06- 10-	5580	24- 35-	7180	36- 42-	9120	49- ++	11810	45-	13730	45-	16420	48-								
Ocean Weather Station 'I' 59°00'N 19°00'W	100000		12 10	159	11 06	1493	03 01-	3043	05- 17-	5600	23- 36-	7200	35- 50-	9140	49- ++	11800	48-	13700	48-	16380	46-								
	101200		13 10	182	10 08	1511	01 01-	3044	07- 17-	5590	24- 30-	7180	36- 42-	9130	48- ++	11770	48-	13660	49-										
Ocean Weather Station 'J' 52°30'N 20°00'W	100000		13 10	179	11 07	1520	03 02-	3071	03- 11-	5650	20- 29-	7270	32- 41-	9230	46- ++	11870	50-	13750	49-	16400									
	101200		14 07	199	12 09	1540	04 01-	3105	01- 13-	5700	17- 32-	7340	27- 39-	9340	43- ++	11980	50-	13870	48-	16540	48-	18910	45-	21180	42-				

STATION	ww N _h C _L hC _M C _H	PRESSURE			TROPOPAUSE
		MSL	Surf.	0°C level	
					mb m °C
LERWICK 03005	63 872++	007 997 790	989 ++ 08 712 05- 07- 480 23- 28- 348 40- 46- 264 53- 250 51- 208 44- 128 45-		264 09920 53-
	60 855++	013 003 790	986 ++ 07 872 03 00 819 02 02- 777 01- 05- 764 01- 05- 746 ++ 08- 726 ++ 16- 639 ++ 20- 515 21- 28- 489 27- 28- 368 241 10590 55- 34- 43- 340 39- 50- 276 50- 250 53- 241 55- 207 43- 100 44- 045 43-		
STORNOWAY 03026	01 35600	013 012 818	903 ++ 01 890 ++ 01- 877 ++ 01- 789 ++ 06- 712 08- 09- 597 15- 17- 510 21- 24- 409 30- 32- 333 40- 43- 240 10560 56- 264 52- 250 54- 240 56- 203 47- 095 46- 095 46- 050 46-		
	02 785++	018 016 836	008 11 06 904 04 03 857 02 03- 792 03- 04- 770 02- 16- 639 ++ 24- 609 ++ 20- 576 ++ 21- 526 20- 26- 512 20- 26- 512 20- 27- 483 ++ 28- 469 23- 31- 368 ++ 47- 330 40- 48- 250 53- 228 57- 189 46- 075 45- 043 48- 030 47-		228 10940 57-
SHANWELL 03170	02 855++	011 010 801	990 11 08 940 ++ 03 872 ++ 02 653 ++ 12- 355 40- 44- 294 49- 250 47- 183 44- 145 47- 108 45- 100 46- 058		294 09200 49-
	02 3837+	016 015 810	995 11 08 810 00 01- 676 ++ 10- 641 11- 14- 621 13- 15- 600 13- 16- 525 20- 24- 429 28- 35- 352 40- 48- 312 47- 263 53- 250 52- 214 47- 100 44- 078 46- 050 44-		263 09970 53-
ALDERGROVE 03917	01 15630	012 004 938	868 ++ 03 850 ++ 00 838 ++ 01 779 02- 03- 767 ++ 06- 692 06- 12- 640 ++ 14- 619 ++ 19- 585 16- 19- 560 ++ 21- 492 23- 29- 380 39- 43- 312 49- 286 52- 260 51- 250 48- 245 47- 110- 46- 030 46-		286 09380 52-
	03 48502	016 007 808	990 13 08 912 06 04 800 ++ 04- 688 09- 11- 554 16- 19- 354 ++ 45- 284 51- 250 50- 213 44- 040 44-		284 09490 51-
AUGHTON 03322	02 14500	014 007 800	000 ++ 09 987 13 10 734 05- 08- 718 05- 10- 706 ++ 12- 624 12- 17- 618 ++ 19- 582 16- 20- 518 ++ 24- 437 29- 34- 364 40- 46- 317 48- 250 46- 205 44- 146 47- 092 46-		302 09070 49-
	02 52630	016 009 794	997 13 07 953 ++ 07 931 ++ 05 900 07 04 872 06 00 800 ++ 03- 749 03- 06- 730 ++ 13- 634 09- 24- 550 16- 25- 509 20- 35- 348 40- 289 50- 250 50- 164 460 085 47-		289 09400 50-
HEMSBY 03496	02 25738	016 014 766	001 15 10 977 15 09 945 ++ 06 901 10 05 885 ++ 02 766 00 01- 730 ++ 05- 700 06- 07- 630 09- 23- 580 11- 29- 510 18- 30- 496 ++ 27- 460 ++ 32- 407 29- 39- 336 40- 49- 250 51- 236 53- 222 52- 207 48- 130 49-		236 10800 53-
	02 515++	017 015 798	997 17 08 918 10 06 859 ++ 03 826 ++ 02- 786 01- 04- 753 01- 06- 742 01- 09- 716 01- 13- 637 06- 11- 587 08- 15- 570 ++ 18- 513 ++ 19- 319 40- 46- 263 50- 250 52- 228 54- 169 46- 147 48-		228 11100 54-
CRAWLEY 03774	02 00900	018 001 778	994 13 11 960 ++ 08 935 ++ 07 902 ++ 02- 891 08 02- 819 ++ 04- 806 01 06- 728 03- 14- 690 03- 21- 619 07- 28- 545 14- 27- 470 ++ 32- 427 26- 38- 352 ++ 50- 347 40- ++ 250 51- 224 55- 203 50- 063 49-		224 11180 55-
	02 3853+	017 000 777	991 16 06 970 ++ 03 856 ++ 01 846 04 01- 800 02 05- 744 03- 08- 732 ++ 13- 715 03- 17- 705 ++ 21- 682 ++ 11- 656 05- 13- 642 ++ 11- 599 ++ 15- 575 ++ 16- 529 15- 20- 424 ++ 32- 404 ++ 34- 360 ++ 43- 329 ++ 48- 289 47- 250 52- 242 54- 220 55- 215 52- 197 49- 108 51- 056 48-		242 10660 54-
CAMBORNE 03808	03 65532	018 007 794	990 13 09 906 07 04 853 ++ 01- 746 03- 05- 720 02- 12- 693 ++ 08- 602 10- 14- 489 22- 25- 419 28- 30- 341 40- 45- 265 54- 250 53- 222 47- 179 46- 133 50- 112 47- 086 50-		265 10400 54-
	63 6722+	016 005 803	997 11 09 822 01 00 768 ++ 03- 591 10- 12- 568 13- 15- 545 ++ 23- 537 ++ 22- 515 18- 30- 398 ++ 45- 355 39- 50- 292 50- 250 49- 219 45- 104 48- 086 44- 085 46- 066 45-		292 09340 50-
VALENTIA 03953	25 785++	016 015 800	886 05 03 850 04 02 771 03- 05- 713 04- 12- 620 13- 21- 564 17- 25- 328 47- 296 48- 254 45- 250 45- 096 47- 071 45-		328 18500 47-
	03 784++	018 016 800	002 12 09 945 07 06 893 06 04 769 02- 03- 671 07- 12- 454 29- 37- 425 33- 40- 315 48- 293 50- 263 48- 250 46- 232 44- 139 45- 133 47- 085 48- 075 45-		293 09300 50-
Ocean Weather Station 'I' 59°00'N 19°00'W	50 855++	019 019 778	003 ++ 06 938 07 05 866 ++ 03 857 03 00 843 04 01- 810 ++ 11- 753 ++ 09- 738 03- 11- 678 06- 19- 628 10- 26- 469 27- 40- 399 35- 50- 300 49- 267 53- 250 51- 230 48- 135 48- 100 46- 070 46-		267 09900 53-
	02 28539	022 022 836	022 13 10 005 11 09 942 06 04 820 01- 03- 802 ++ 04- 777 ++ 09- 740 ++ 09- 714 ++ 15- 698 07- 17- 662 ++ 22- 607 ++ 25- 562 ++ 24- 488 25- 30- 429 ++ 37- 405 36- 42- 361 40- 46- 330 43- 269 52- 238 52- 204 48- 148 49- 124 51- 103 47-		269 09800 52-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 11400	021 021 765	933 05 05 912 04 03 863 03 02- 827 03 02- 769 00 08- 607 09- 19- 481 23- 32- 453 24- 34- 364 38- 47- 292 49- 250 51- 211 50- 141 49- 127 51- 102 50-		252 10400 52-
	21440	023 023 728	023 14 07 965 09 09 940 07 07 905 07 01 810 03 04- 728 00 11- 700 01- 13- 600 10- 22- 458 20- 33- 321 40- 50- 250 52- 223 55- 193 49- 050 42-		223 11300 55-



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
101340	49°9'N 28°1'W	020 013 686	061 16 15	168	14 14	1058 11 11	1533 09 09	2036 08 01	06 07	3127 01 00	03 03	4350 07 ++	11 12	5752 15 19
Cloud :— 7/8 St. 600ft; to 1000ft; 2/8 Cu. HNG to 5000ft; 3/8 Ac. at 14000ft; 2/8 Ac. at 19000ft; 1/8 Ci. at 25000ft.														
Inversion Levels :— Isothermal Levels :— 1013mb to 1000mb 16°C 967mb to 950mb 14°C														
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/-.												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	134mb 250 07 04150/5 04950/5 05730/2 07770/2 10420/1 11300/5 18900m 180 05	
STORNOWAY 03026	059mb 230 04 10860/5 09350/8	
SHANWELL 03170	056mb 160 09	
ALDERGROVE 03917	07650/8 10250/4 046mb 140 09 23200m 120 08	
AUGHTON 03322	08400m 240 45 23400m 130 13 08350/1 092mb 220 13 23100m 170 04	230 61 08970m
HEMSBY 03496	11120/1 157mb 230 44 21510m 230 09 10900/1	220 114 10520m 220 96 10850m 220 90 10670m 210 80 10250m
CRAWLEY 03774	09350/0 10830/1 24300m 170 21 19200m 250 15 11130/1	220 104 10570m 220 89 10500m 220 76 09950m 210 81 10090m
CAMBORNE 03808	14700m 240 20 09190/0 10180/1 18000m 210 14	220 72 09730m 220 64 09930m
VALENTIA 03953		
Ocean Weather Station 'J' 59°00'N 19°00'W	076mb 080 07 18000m 340 05 09130/1 10660/0 365mb 350 44 108mb 350 07 06800/0 11300/1 20350/5 21300/2	350 68 08320m
Ocean Weather Station 'J' 52°30'N 20°00'W	744mb 330 17 344mb 320 44 282mb 320 78 267mb 330 85 079mb 330 10 625mb 330 18 244mb 330 56 074mb 000 00 054mb 000 00 402mb 310 22 195mb 330 45	320 78 09650m
LARKHILL 03743	052mb 200 11 15000m 210 23	210 80 10890m 220 88 10400m

NOTES ON THE AEROLOGICAL SITUATION

Changes over America are very slow with the ridge persisting in the west and the low over Baffin Island deepening slowly and moving a little north. The trough from the east of Greenland to the British Isles is swinging eastwards and relaxing a little with the downstream ridge persisting from Finland towards the Pole. The low over Russia is moving east.

AVERAGE AND EXTREME VALUES 1951-55							
AUGUST							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22435	-47.1	-44	-56	201	3	7
60	19760	-48.1	-41	-54	213	4	9
100	16400	-48.3	-42	-57	235	9	14
150	13730	-48.4	-42	-63	242	13	24
200	11845	-49.7	-40	-64	243	16	34
300	9190	-44.7	-34	-53	232	17	4
400	7205	-30.0	-19	-39	230	15	33
500	5580	-18.4	-10	-27	229	13	27
700	2985	-2.7	4	-10	230	10	20
850	1425	4.8	16	-2	229	7	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		243	-54.8		10645		
Max.		367	-38		13990		
Min.		150	-66		7590		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22425	-49.2	-45	-56	158	2	6
60	19780	-50.8	-43	-57	224	3	9
100	16470	-52.4	-43	-62	267	13	18
150	13845	-52.3	-42	-69	273	23	31
200	11980	-52.4	-40	-63	274	29	43
300	9325	-42.4	-34	-52	271	27	45
400	7320	-27.2	-18	-37	270	23	36
500	5680	-15.7	-8	-24	267	20	30
700	3060	0.1	7	-6	262	14	22
850	1480	7.7	17	2	260	10	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		226	-55.9		11245		
Max.		343	-41		14235		
Min.		145	-67		8230		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22330)	(-55.6)	...	...	100	14	15
60	19780	-60.8	-54	-68	110	7	11
100	16655	-66.8	-58	-74	250	21	24
150	14175	-60.2	-53	-70	255	41	45
200	12345	-50.9	-44	-59	265	44	49
300	9620	-35.2	-29	-44	275	31	37
400	7555	-20.4	-16	-27	285	23	29
500	5865	-8.6	-4	-14	290	19	24
700	3170	8.9	13	1	310	15	19
850	1540	18.4	27	12	310	7	11
Tropopause		Average Press.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
Upper		mb. °C	mb.	mb.	°C	°C	
Lower		102 (-59.1)	...	...	...	-75	

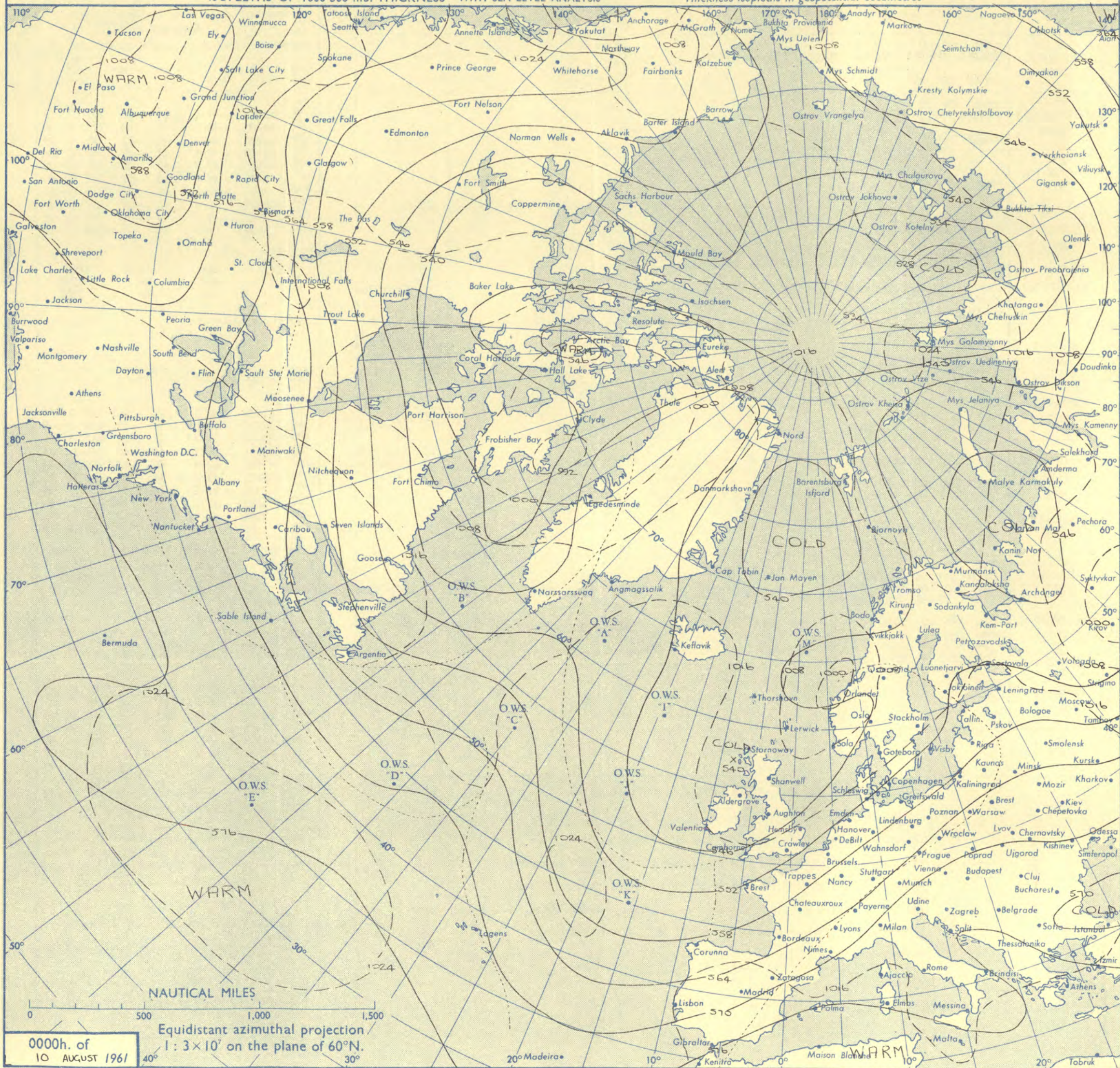
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

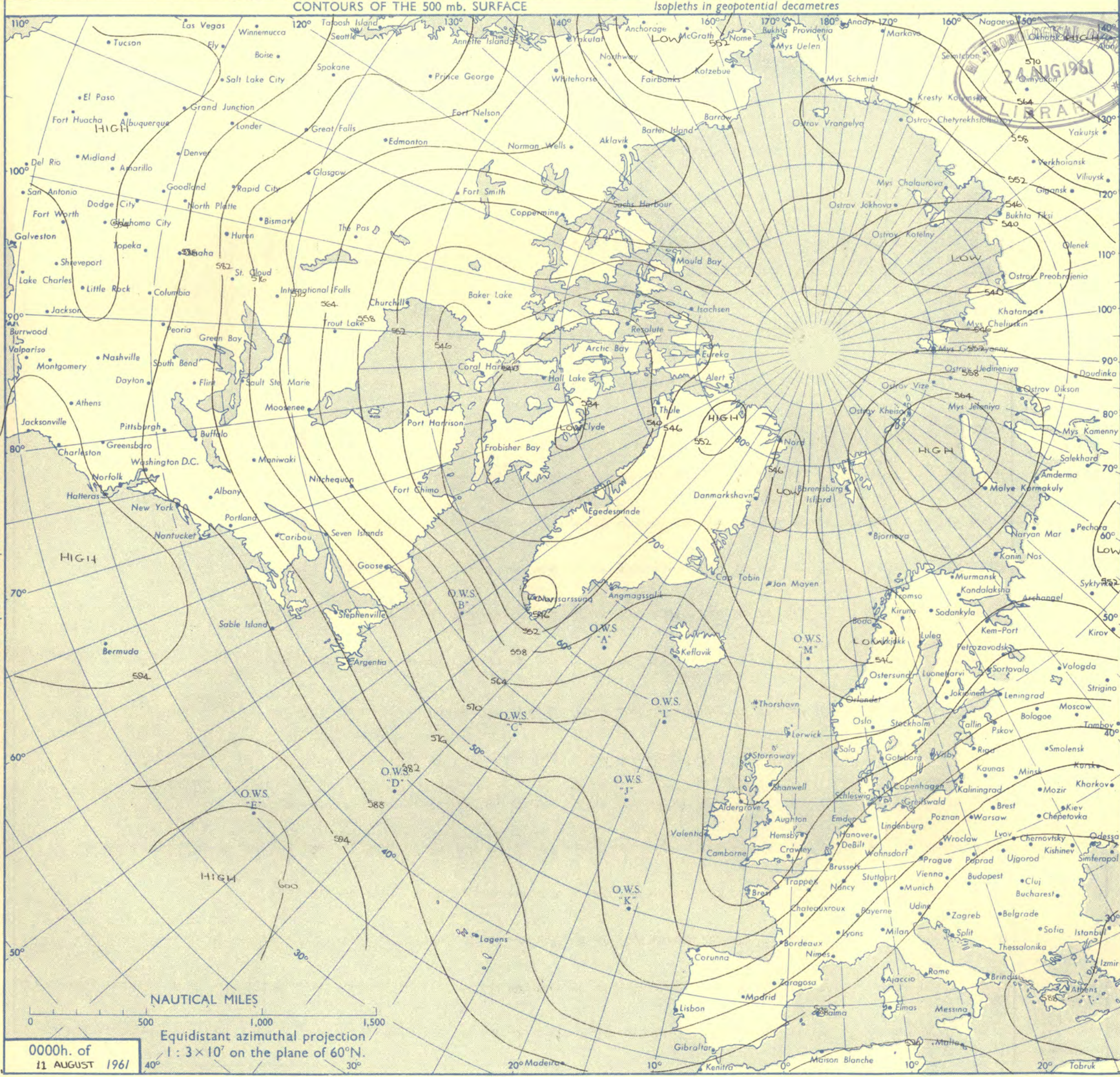
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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

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

Thickness isopleths in geopotential decametres

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



STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C			
LERWICK 03005	102330	082	09	07	153	09	06	1477	01	03	3014	05	27	5572	22	37	7181	32	46	9146	48	++	11776	47	13686	46	16387	45	18762	46										
	111130	082	11	06	169	10	05	1492	03	07	3029	08	13	5585	22	34	7185	34	43	9140	48	++	11818	43																
STORNOWAY 03026	102339	013	11	09	172	10	08	1495	01	03	3041	06	13	5582	23	29	7192	33	43	9152	48	++	11787	46	13700	46	16399	45	18770	46	21009	46	24397	47						
	111130	013	13	07	187	10	04	1514	01	06	3055	07	15	5606	22	39	7209	34	47	9160	48	++	11786	48	13687	47	16373	47	18742	46										
SHANWELL 03170	102330	005	12	11	157	11	09	1490	02	01	3034	07	08	5578	24	36	7173	35	49	9117	48	++	11782	47	13690	47														
	111130	005	13	07	176	10	04	1505	01	00	3045	05	17	5595	22	31	7197	33	45	9160	47	++	11819	47	13735	46	16433	46	18807	46	21045	46								
ALDERGROVE 03917	102330	077	11	10	147	11	09	1483	02	00	3029	06	10	5576	23	27	7181	32	36	9148	47	++	11801	46	13717	46	16411	47	18779	46	21008	47	24391	47						
	111140	077	15	10	168	13	09	1508	03	01	3053	07	12	5609	21	27	7223	33	43	9182	50	++	11828	47	13727	47	16411	48	18771	49										
AUGHTON 03322	102330	056	12	11	138	13	10	1479	04	01	3030	05	09	5596	22	23	7194	35	38	9138	50	++	11810	45	13734	45	16429	48	18789	47										
	111130	056	15	11	149	13	10	1487	03	00	3031	07	11	5579	24	28	7177	35	43	9119	50	++	11798	45	13717	46	16414	46	18793	46										
HEMSBY 03496	102330	012	15	14	138	15	13	1488	05	03	3045	03	06	5626	19	22	7242	32	36	9212	47	++	11872	46	13779	48														
	111130	012	13	12	117	12	10	1454	04	03	3009	04	06	5576	23	28	7176	37	42	9091	47	++	11797	47	13704	46														
CRAWLEY 03774	102330	144	12	12	125	++	++	1484	07	06	3052	03	04	5634	21	30	7242	33	43	9202	47	++	11879	46	13796	46														
	111130	144	17	12	125	++	++	1476	05	01	3035	04	14	5609	21	36	7209	35	47	9153	48	++	11861	45	13772	48														
CAMBORNE 03808	102330	088	13	11	145	13	11	1485	03	03	3029	06	21	5582	24	40	7172	36	48	9114	46	++	11840	44	13863	47	16544	47	18901	47										
	111130	088	15	12	169	14	11	1508	03	00	3053	06	08	5624	20	30	7240	32	40	9205	47	++	11869	46	13780	47	16451	48	18803	48										
VALENTIA 03953	110000	014	13	11	169	13	11	1517	05	01	3074	04	11	5640	21	29	7250	33	39	9210	49	++	11870	46	13780	47	16460	45												
	111130	014	17	10	194	14	09	1532	03	01	3082	05	15	5660	19	35	7280	31	45	9250	47	++	11900	48	13790	48	16450	50	18780	49	20990	49								
Ocean Weather Station 'I' 59°00'N 19°00'W	110000		13	11	182	12	09	1518	03	00	3073	03	10	5680	16	23	7320	29	35	9310	44	++	11930	56	13800	50														
	111200		13	10	137	12	10	1470	03	03	3027	01	11	5630	17	20	7260	29	32	9260	44	++	11870	61	13710	52	16350	49	18700	48	20920	47								
Ocean Weather Station 'J' 52°30'N 20°00'W	110000		14	08	201	10	07	1535	05	00	3113	00	11	5740	15	22	7390	25	35	9420	39	47	12100	55	13940	53	16570	50	18900	49	21110	48	24490	46						
	111200		15	13	177	13	12	1530	06	05	3111	00	04	5740	14	19	7400	24	30	9430	39	46	12090	57	13940	52	16570	49	18940	40	21200	41	24680	39						

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _A C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	01 685++	018 008 859	983 08 05 969 08 02 810 04-- 05-- 797 01-- 07-- 788 ++ 10-- 732 03-- 20-- 710 ++ 28-- 660 ++ 25-- 508 ++ 29-- 462	241 10580 56--				
	02 855++	021 011 799	870 00 02-- 855 03 05-- 850 ++ 07-- 818 02 07-- 704 09-- 13-- 693 07-- 15-- 684 ++ 18-- 633 10-- 25-- 522 ++ 34-- 468	257 10160 51--				
STORNOWAY 03026	25 884++	021 019 780	954 ++ 05 918 04 01 884 ++ 00 846 01-- 03-- 826 02 09-- 780 00 11-- 765 01-- 09-- 735 ++ 12-- 724 04-- 12-- 518 23--	248 10360 57--				
	02 35600	023 021 805	011 11 04 885 02 00 861 ++ 02-- 844 ++ 08-- 836 01 10-- 786 ++ 11-- 737 ++ 12-- 690 ++ 16-- 667 ++ 22-- 539 18--	252 10290 55--				
SHANWELL 03170	58 7732+	019 018 808	972 ++ 04 901 05 03 710 06-- 07-- 640 ++ 16-- 600 ++ 18-- 563 ++ 21-- 543 ++ 29-- 470 27-- 40-- 402 35-- 49-- 330	266 09900 52--				
	02 3553+	021 020 840	010 11 05 951 07 05 838 00 01-- 790 ++ 02-- 775 02-- 05-- 750 03-- 13-- 703 05-- 17-- 680 07-- 14-- 661 ++ 18-- 552	256 10200 53--				
ALDERGROVE 03917	01 35530	018 009 809	930 08 04 825 01 01-- 753 02-- 05-- 670 09 13-- 406 32-- 36-- 344 40-- 46-- 262 53-- 250 52-- 195 46-- 030 47--	262 10020 53--				
	03 784++	020 011 798	011 15 10 002 13 09 930 07 05 910 ++ 05 829 02 01-- 750 04-- 06-- 715 ++ 11-- 656 ++ 14-- 580 ++ 21-- 554 18--	277 09690 53--				
AUGHTON 03322	02 6553+	017 010 786	005 13 11 912 09 04 837 03 00 791 ++ 01-- 731 04-- 06-- 712 ++ 06-- 679 06-- 14-- 601 12-- 14-- 486 24-- 25-- 450	277 09680 53--				
	02 4151+	018 011 804	994 12 09 842 02 01-- 625 11-- 15-- 498 ++ 28-- 458 27-- 33-- 365 40-- 47-- 289 52-- 250 46-- 249 46-- 210 44-- 107	289 09370 52--				
HEMSBY 03496	61 872++	017 015 770	003 15 13 931 ++ 07 880 07 05 788 00 03-- 737 01-- 04-- 530 16-- 19-- 402 32-- 36-- 342 40-- 44-- 270 52-- 250 52--	270 09930 52--				
	63 6732+	014 013 776	007 ++ 10 872 04 03 827 03 02 552 16-- 20-- 524 20-- 25-- 514 20-- 25-- 501 23-- 28-- 485 23-- 28-- 384 40-- 45-- 337	324 08580 51--				
CRAWLEY 03774	60 8042+	015 998 742	968 13 10 960 ++ 09 928 12 09 860 ++ 07 811 04 03 680 ++ 05-- 568 13-- 16-- 548 16-- 20-- 522 ++ 23-- 508 ++	275 09770 50--				
	02 53560	015 998 777	985 14 10 940 ++ 09 925 ++ 05 777 00 03-- 770 ++ 04-- 748 00 12-- 668 ++ 16-- 579 13-- 27-- 528 ++ 37-- 375 ++	304 09070 48--				
CAMBORNE 03808	02 00900	017 007 821	991 ++ 08 914 ++ 05 885 ++ 01-- 813 00 04-- 795 ++ 04-- 765 01-- 16-- 680 ++ 23-- 665 ++ 26-- 618 ++ 26-- 530 20--	322 08640 46--				
	02 4846+	020 010 800	980 11 09 858 ++ 01-- 834 ++ 00 788 ++ 04-- 718 06-- 08-- 666 ++ 11-- 641 10-- 12-- 618 10-- 14-- 560 ++ 21-- 532	265 10000 53--				
VALENTIA 03953	02 15400	020 019 775	991 13 11 814 02 01-- 558 16-- 20-- 490 22-- 30-- 273 53-- 250 49-- 233 45-- 144 48-- 100 45-- 072 47--	273 09800 53--				
	02 32500	023 021 797	990 12 07 933 08 05 819 01 04-- 733 03-- 11-- 550 14-- 28-- 497 19-- 35-- 278 51-- 253 53-- 250 52-- 195 48-- 087 51--	278 09800 51--				
Ocean Weather Station 'I' 59°00'N 19°00'W	02 25500	022 022 813 752	970 09 07 921 07 03 802 01-- 04-- 795 ++ 02-- 790 02 04-- 772 01 11-- 737 01-- 01-- 675 04-- 12-- 633 06-- 18-- 606	208 11700 58--				
	03 21578	017 017 762	955 08 06 923 ++ 03 902 05 02 867 02 00 832 ++ 07-- 829 03 08-- 730 02-- 12-- 704 01-- 11-- 647 04-- 13-- 618 ++	193 12100 62--				
Ocean Weather Station 'J' 52°30'N 20°00'W	01 31400	023 023 700	990 13 03 940 07 06 919 07 00 790 03 05-- 755 01 07-- 722 00 09-- 630 04-- 18-- 600 05-- 17-- 549 11-- 19-- 514 14--	205 12000 55--				
	25 2247+	020 020 700	993 13 11 878 08 07 833 05 04 813 04 04 752 03 04-- 720 02 05-- 687 00 04-- 638 03-- 07-- 548 09-- 14-- 352 30--	206 11900 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

Page 5

AVERAGE AND EXTREME VALUES 1951-55							
AUGUST							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.			Wind*	
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22435	-47·1	-44	-56	201	3	7
60	19760	-48·1	-41	-54	213	4	9
100	16400	-48·3	-42	-57	235	9	14
150	13730	-48·4	-42	-63	242	13	24
200	11845	-49·7	-40	-64	243	16	34
300	9190	-44·7	-34	-53	232	17	41
400	7205	-30·0	-19	-39	230	15	33
500	5580	-18·4	-10	-27	229	13	27
700	2985	-2·7	4	-10	230	10	20
850	1425	4·8	16	-2	229	7	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		243	-54·8		10645		
Max.		367	-38		13990		
Min.		150	-66		7590		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.			Wind*	
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22425	-49·2	-45	-56	158	2	6
60	19780	-50·8	-43	-57	224	3	9
100	16470	-52·4	-43	-62	267	13	18
150	13845	-52·3	-42	-69	273	23	31
200	11980	-52·4	-40	-63	274	29	43
300	9325	-42·4	-34	-52	271	27	45
400	7320	-27·2	-18	-37	270	23	36
500	5680	-15·7	-8	-24	267	20	30
700	3060	0·1	7	-6	262	14	22
850	1480	7·7	17	2	260	10	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		226	-55·9		11245		
Max.		343	-41		14235		
Min.		145	-67		8230		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.			Wind*	
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22330)	(-55·6)	...	...	100	14	15
60	19780	-60·8	-54	-68	110	7	11
100	16655	-66·8	-58	-74	250	21	24
150	14175	-60·2	-53	-70	255	41	45
200	12345	-50·9	-44	-59	265	44	49
300	9620	-35·2	-29	-44	275	31	37
400	7555	-20·4	-16	-27	285	23	29
500	5865	-8·6	-4	-14	290	19	24
700	3170	8·9	13	1	310	15	19
850	1540	18·4	27	12	310	7	11
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		(195)	(-59·1)	...	...	...	...

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

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

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

The westerly stream with mobile troughs and ridges over eastern Canada has advanced to the west Atlantic. The ridge near Iceland has been displaced eastwards whilst the trough over western districts of the British Isles has moved slowly southeast. The strong southwesterly stream over Europe has been maintained. The low near the Norwegian coast has deepened slightly whilst a high persists over the Barents Sea.

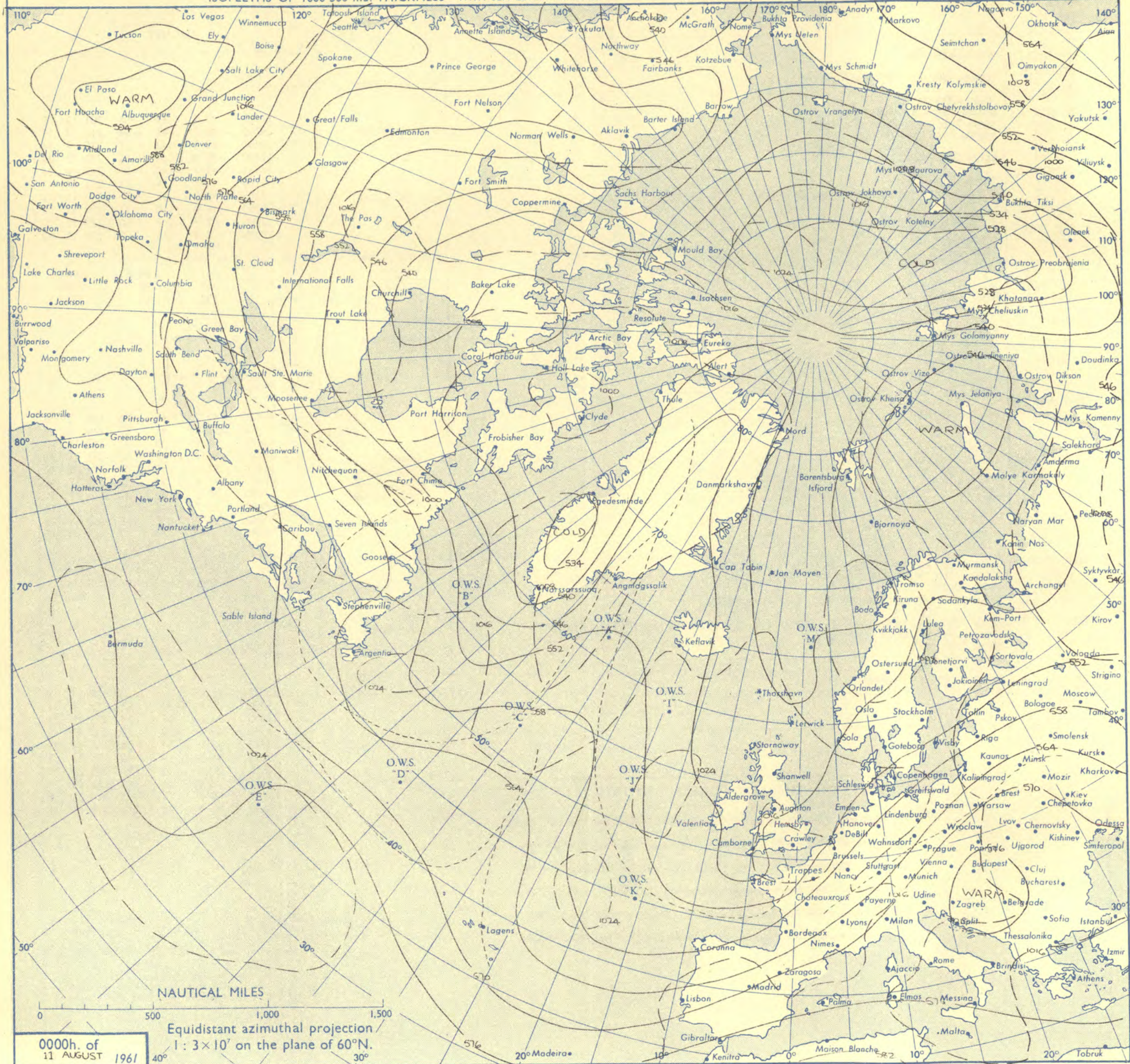
* V_p = Vector average wind. V_s = average wind speed. Average winds are based on observations at Larkhill, Larkhill and Crawley at 03, 09, 15, 21h, and at Malta at 03, 15h.

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

Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 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	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C		
LERWICK 03005	112330	082	09 09	160	09 07	1489	01 00	3026	07-- 10--	5568	22-- 28--	7165	35-- 45--	9118	47-- ++	11770	46-- 13684	46-- 16383	46--										
	121130	082	13 11	154	10 08	1482	00 04--	3011	09-- 13--	5574	20-- 24--	7188	32-- 37--	9162	46-- ++	11771	52-- 13666	47-- 16353	47-- 18713	47-- 20933	48-- 24286	50--							
STORNOWAY 03026	120114	013	09 08	184	12 11	1519	02 01--	3075	04-- 13--	5655	19-- 22--	7278	31-- 34--	9252	46-- ++	11854	56-- 13727	49-- 16392	47-- 18754	47--									
	121130	013	13 09	161	11 07	1492	03 03--	3045	04-- 20--	5635	17-- 20--	7271	28-- 33--	9264	45-- ++	11863	54-- 13747	48-- 16420	47-- 18785	47-- 21029	45-- 24428	48--							
SHANWELL 03170	112330	005	09 08	190	11 05	1523	02 00	3065	06-- 15--	5634	20-- 27--	7246	33-- 40--	9211	47-- ++	11822	50-- 13714	48-- 16392	47-- 18755	47--									
	121130	005	17 09	175	14 06	1519	05 05--	3070	06-- 16--	5653	19-- 24--	7277	30-- 33--	9257	47-- ++	11842	53-- 13715	51--											
ALDERGROVE 03917	112330	077	08 08	193	11 09	1535	05 02	3094	03-- 14--	5692	17-- 29--	7326	29-- 37--	9326	43-- ++	11957	60-- 13815	50-- 16475	49-- 18828	47-- 21054	47-- 24434	47--							
	121130	077	16 09	179	13 08	1515	03 05--	3070	04-- 16--	5657	17-- 18--	7295	28-- 31--	9290	45-- ++	11882	55-- 13752	51-- 16404	49-- 18745	48-- 20967	47-- 24331	47--							
AUGHTON 03322	112330	056	12 10	193	12 08	1533	04 03	3082	05-- 15--	5649	21-- 31--	7263	32-- 47--	9234	46-- ++	11878	48-- 13775	48-- 16441	48--										
	121130	056	16 10	200	14 10	1539	03 00	3091	04-- 14--	5694	17-- 30--	7330	28-- 40--	9330	44-- ++	11928	57-- 13792	50-- 16450	48-- 18815	47-- 21041	47--								
HEMSBY 03496	112330	012	12 11	167	12 09	1505	03 02--	3061	03-- 12--	5633	22-- 29--	7233	35-- 44--	9173	51-- ++	11859	46-- 13766	48-- 16442	48--										
	121130	012	15 11	199	12 04	1536	05 11--	3093	04-- 17--	5682	19-- 31--	7306	31-- 41--	9284	45-- ++	11906	52-- 13787	48-- 16444	50-- 18787	49-- 20989	50--								
CRAWLEY 03774	112330	144	13 11	178	13 10	1524	05 03	3080	05-- 07--	5649	21-- 27--	7254	33-- 39--	9224	46-- ++	11905	46-- 13812	47--											
	121130	144	17 10	206	16 08	1552	03 01	3106	04-- 11--	5688	18-- 35--	7314	30-- 43--	9302	44-- ++	11929	49-- 13814	49-- 16468	49--										
CAMBORNE 03808	112330	088	13 11	198	13 09	1537	03 00	3084	06-- 13--	5665	18-- 37--	7291	29-- ++	9285	44-- ++	11936	49-- 13823	49-- 16475	50-- 18813	50--									
	121130	088	16 11	219	14 08	1562	04 02--	3119	02-- 17--	5733	17-- 40--	7371	29-- 36--	9361	45-- ++	11945	59-- 13789	53-- 16398	52--										
VALENTIA 03953	112340	014	09 08	210	12 10	1554	05 01--	3122	00 14--	5750	16-- 30--	7390	28-- 37--	9390	42-- ++	12020	59-- 13860	53-- 16490	51--										
	121130	014	14 13	191	13 12	1537	06 04	3105	01-- 03--	5720	16-- 31--	7360	28-- 43--	9340	46-- ++	11980	49-- 13860	50-- 16490	52-- 18820	50--									
Ocean Weather Station 'I' 59°00'N 19°00'W	120000		13 13	071	12 11	1423	07 05	2997	02-- 04--	5610	17-- 37--	7240	30-- 36--	9230	45-- ++	11860	49-- 13750	49-- 16410	49--										
	121200		12 11	091	11 09	1429	06 03	3000	01-- 22--	5600	19-- 38--	7220	30-- 42--	9210	44-- ++	11880	48-- 13780	48-- 16440	49--										
Ocean Weather Station 'J' 52°30'N 20°00'W	120000		15 15	139	14 14	1510	10 10	3098	00 00	5720	14-- 27--	7370	27-- 41--	9370	43-- ++	11990	51-- 13870	51-- 16510	50-- 18840	49-- 21040	48-- 24420	47--							
	121200		14 09	195	12 08	1530	08 11--	3123	02 10--	5760	14-- 22--	7420	24-- 30--	9460	38-- 44--	12120	58-- 13930	54-- 16560	51-- 18900	49-- 21110	46-- 24510	44--							

STATION	ww N _h C _L hC _M C _H	PRESSURE																														TROPOPAUSE		
		MSL	Surf.	0°C level																												mb	m	°C
LERWICK 03005	63 862++	019	009	822	970 09 09 925 ++ 04 900 ++ 01 855 ++ 00 655 10- 13- 581 17- 21- 493 23- 29- 458 ++ 33- 433 31- 39- 368																											252	10280	54-
	02 885++	019	009	845	001 10 08 963 ++ 05 930 ++ 02- 894 04 02- 812 03- 07- 727 ++ 11- 705 ++ 13- 688 ++ 12- 654 11- 14- 617	10- 14- 338 40- 46- 262 53- 250 55- 234 57- 168 47- 100 47- 030 50- Pressure suspect above 100 mb.																										234	10770	57-
STORNOWAY 03026	02 15601	022	021	755	005 12 11 973 10- 09 912 ++ 03 851 02 01- 810 02 04- 749 00 09- 687 05- 14- 593 11- 19- 525 ++ 21- 449	24- 27- 341 40- 43- 250 54- 222 59- 205 59- 185 50- 070 47-																										222	11200	59-
	02 715++	019	018	774	007 11 07 897 04 02 885 04 01 840 02 05- 824 03 09- 705 ++ 19- 631 ++ 19- 575 ++ 15- 413 26- 30- 358 ++	41- 325 40- 47- 250 55- 225 60- 207 58-192 50- 088 46- 036 45- 030 48-																										225	11130	60-
SHANWELL 03170	02 654++	023	022	802	013 11 07 010 11 05 955 08 03 902 05 03 855 02 01 831 01 02- 795 ++ 09- 690 06- 16- 675 ++ 24- 634 10-	27- 596 12- 26- 568 14- 22- 535 ++ 23- 433 28- 35- 347 40- 46- 264 53- 250 55- 227 57- 216 56- 204 51- 170																										227	11000	57-
	02 48602	021	020	777	002 14 06 936 ++ 06 881 ++ 03 874 04 01 860 05 02- 838 04 07- 808 ++ 07- 790 01 11- 712 05- 13- 692 06-	17- 670 ++ 17- 664 08- 19- 654 07- 22- 589 10- 27-532 15- 28- 449 ++ 30- 360 36- 41- 337 40- 45- 271 53- 250 57- 225																										225	11120	61-
ALDERGROVE 03917	01 00900	023	014	783	003 11 09 989 12 09 889 05 03 860 05 02 783 00 03- 742 00 08- 698 ++ 16- 665 06- 17- 606 ++ 30- 560 11-	25- 443 24- 35- 400 ++ 37- 318 40- 47- 250 51- 205 60- 195 60- 180 51- 137 49- 030 47-																										205	11800	60-
	02 4257+	021	012	749	984 11 07 910 06 04 902 ++ 03 885 ++ 03- 808 02 08- 775 02 10- 680 05- 18- 635 ++ 28- 617 08- 23- 550 ++	16- 486 18- 19- 440 ++ 26- 408 ++ 29- 374 32- 36- 328 40- 47- 279 49- 250 55- 217 62- 185 50- 083 50- 047																										217	11380	62-
AUGHTON 03322	02 855++	023	017	789	010 12 08 963 ++ 06 850 ++ 03 723 05- 07- 713 04- 10- 700 ++ 15- 682 06- 13- 641 09- 20- 541 17- 25- 521	19- 30- 488 22- 32- 462 ++ 38- 378 35- 49- 283 49- 250 53- 245 54- 235 50- 220 53- 202 48- 073 48-																										245	10570	54-
	80 634++	024	017	789	943 09 07 848 ++ 00 817 ++ 01 768 02- 03- 744 02- 10- 687 ++ 14- 653 ++ 22- 614 07- 29- 573 09- 25- 471	20- 33- 319 40- 50- 250 55- 216 61- 184 51- 173 52- 087 46- 036 47-																										216	11460	61-
HEMSBY 03496	01 35600	020	019	783	011 13 10 944 08 06 890 ++ 00 777 01- 06- 742 01- 09- 710 ++ 11- 681 04- 15- 645 ++ 16- 476 25- 31- 418	++ 41- 367 40- 48- 300 51- 250 46- 085 47-																										300	09170	51-
	03 35600	024	022	761	003 ++ 04 939 ++ 05 920 ++ 01 880 ++ 00 874 03 03- 855 05 11- 657 07- 20- 616 ++ 23- 570 ++ 35- 546 13-	30- 505 18- 30- 336 40- 50- 250 54- 230 58- 193 50- 043 51-																										230	11000	58-
CRAWLEY 03774	02 756++	021	004	769	999 13 10 940 ++ 06 807 ++ 01 672 07- 10- 656 07- 11- 597 ++ 16- 586 ++ 20- 560 ++ 24- 530 ++ 25- 450 ++	32- 399 33- 39- 340 ++ 46- 277 50- 250 48- 222 45- 133 48-																										277	09750	50-
	03 52500	024	007	780	992 15 08 914 ++ 05 845 03 01 814 ++ 03- 765 ++ 06- 752 ++ 10- 685 ++ 12- 672 ++ 15- 658 06- 16- 630 ++	17- 530 ++ 24- 504 ++ 36- 459 23- 38- 349 ++ 49- 250 54- 225 58- 204 50- 154 49- 087 47-																										225	11190	58-
CAMBORNE 03808	02 38400	024	013	799	991 13 10 938 ++ 07 877 04 02 767 02- 06- 752 02- 08- 687 07- 13- 545 13- 30- 438 25- 46- 413 28- 48- 250	52- 245 53- 183 49- 107 50- 063 48-																										245	10620	53-
	03 42505	026	015	739	997 13 07 931 08 06 903 ++ 00 811 01 05- 796 ++ 08- 782 ++ 07- 739 00 13- 667 ++ 20- 648 ++ 31- 606 05-	39- 534 13- 44- 463 ++ 39- 430 ++ 34- 330 40- 46- 250 56- 221 62- 208 62- 188 55- 074 50-																										221	11310	62-
VALENTIA 03953	02 15600	025	024	700	997 12 10 845 04 02- 674 01- 17- 481 17- 30- 250 52- 221 58- 203 60- 175 53- 111 52- 081 48-																											203	11900	60-
	60 5642+	023	021	720	902 06 05 846 06 04 773 01 02- 749 01 02- 679 10- 13- 495 17- 33- 423 25- 40- 257 54- 250 54- 221 54- 204	49- 203 49- 139 50- 087 49- 064 50-																										257	10300	54-
Ocean Weather Station 'I' 59°00'N 19°00'W	61 8032+	008	008	728	984 12 10 896 08 06 887 09 07 651 05- 07- 640 ++ 07- 604 07- 12- 579 ++ 18- 560 11- 28- 487 18- 40- 436	25- 32- 408 ++ 35- 326 40- 50- 250 55- 248 55- 241 55- 213 50- 163 48- 134 49- 100 49- 072 48-																										248	10500	55-
	02 6552+	011	011	715	982 09 06 939 07 05 915 07 05 882 05 03 863 07 05 835 05 02 827 ++ 01 800 ++ 15- 784 05 17- 750 ++ 23-	608 08- 36- 448 ++ 36- 372 34- 47- 351 36- 50- 270 48- 250 50- 246 51- 229 48- 082 48-																										246	10500	51-
Ocean Weather Station 'J' 52°30'N 20°00'W	873++	016	016	700	985 14 14 820 09 09 766 05 05 680 01- 02- 612 06- 16- 592 18- 27- 550 10- 21- 492 15- 28- 438 22- 39- 323 40- 51-	266 51- 250 53- 238 55- 215 51- 156 50- 029 49-																										238	10900	54-
	++ 18406	022	022	670	967 08 05 914 07 05 865 08 09- 820 08 14- 600 04- 18- 575 07- 18- 466 18- 25- 421 21- 28- 380 27- 33- 328	32- 39- 289 40- 46- 250 48- 196 60- 167 69- 158 56- 117 51- 095 51- 058 47- 020 42- 015 42- 010 39-																										196	12300	60-

UPPER WINDS AT STANDARD LEVELS

12 August

1961

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30300m
LERWICK 03005	112330	T	290 11	+++ ++	310 18	310 17	320 15	320 13	300 09	310 23	320 37	330 78	330 64	330 31	280 17	280 07					
	120530	P	280 10	+++ ++	300 14	300 11	300 12	280 12	300 16	320 27	320 48	320 68	320 69	320 29	310 16	300 08	260 08				
	121130	T	270 13	+++ ++	290 14	280 14	260 13	280 23	300 21	300 34	310 40	310 63	310 63	310 37	310 14	260 12	250 06	250 06			
	121730	P	260 06	+++ ++	260 09	250 12	260 13	270 20	280 15	280 23	300 41	290 42	290 46	300 28	300 21	290 10	280 09	270 05			
STORNOWAY 03026	120114	T	000 00	+++ ++	230 07	240 07	250 08	250 14	300 15	310 24	310 33	320 43	320 49	320 38	300 17	300 06					
	120530	P	220 02	+++ ++	210 08	240 11	250 16	260 17	290 15	290 26	300 29	310 37	300 34	290 29	310 22	280 13	220 05				
	121130	T	180 14	+++ ++	210 20	220 16	230 16	240 16	250 16	290 18	280 23	280 30	270 26	290 22	300 17	280 11	300 06	190 05			
	121730	P	190 16	+++ ++	190 28	200 25	200 24	200 16	210 17	200 10	230 09	230 16	230 20	270 19	310 17	300 15	280 07	290 05			
SHANWELL 03170	112330	T	000 00	+++ ++	250 05	300 11	300 10	320 11	330 18	340 23	340 29	350 48	350 58	330 25	300 15	280 13	250 04				
	120530	P	000 00	+++ ++	250 12	260 18	280 15	290 13	300 22	310 28	320 33	330 41	330 45	320 34	300 17	280 09	270 08	080 05			
	121130	T	260 10	+++ ++	250 18	250 16	250 21	260 21	280 18	280 19	300 27	300 31	290 29	290 24	290 19						
	121730	P	240 12	+++ ++	230 22	230 22	230 22	240 21	240 16	240 17	250 12	240 17	240 25	270 21	290 18	280 16					
ALDERGROVE 03917	120001	P	330 01	+++ ++	020 03	340 04	320 07	310 11	320 08	350 18	340 28	350 44	350 58	340 36	310 19	310 06					
	120530	P	180 02	+++ ++	220 13	220 11	220 09	270 08	290 14	290 18	310 23	320 31	300 27	300 30	310 24	290 16	280 06				
	121130	T	220 10	+++ ++	210 19	220 12	220 20	220 22	220 18	250 25	250 22	250 24	240 25	250 19	280 20	280 12	280 07	200 05	010 07		
	121730	P	170 12	+++ ++	210 28	220 27	240 36	250 37	250 28	220 23	200 25	170 34	210 28	270 22	290 16	300 18					
AUGHTON 03322	112330	T	060 02	+++ ++	100 05	340 05	340 03	310 06	360 10	360 22	020 48	010 66	360 57	340 28	290 18	280 14					
	120530	P	100 05	+++ ++	170 05	220 02	270 04	310 10	350 13	350 18	350 31	350 40	350 50	340 34	290 22	300 11	280 10				
	121130	T	160 06	+++ ++	220 09	250 11	220 12	250 11	270 13	290 15	300 19	320 23	300 26	290 26	290 19	260 13	250 07	160 04			
	121730	P	000 00	+++ ++	220 15	210 21	210 22	250 19	230 25	220 33	230 26	220 29	210 33	240 23	230 17						
HEMSBY 03496	112330	T	360 08	+++ ++	360 18	360 14	350 17	340 18	350 11	280 07	260 10	240 15	250 21	260 23	260 22	250 13					
	120530	P	300 05	+++ ++	350 12	330 15	340 18	330 15	310 14	340 12	010 20	030 55	350 19	290 17	280 16	250 18	240 11	070 03			
	121130	T	360 09	+++ ++	310 07	320 10	330 14	310 12	320 15	340 18	350 26	360 39	360 45	310 19	270 23	270 15	220 11	270 06			
	121730	P	160 07	+++ ++	270 09	290 15	290 16	280 14	280 12	300 16	320 18	340 20	320 26	290 26	280 22	270 21	250 13	230 05	080 05		
CRAWLEY 03774	112330	T	030 05	+++ ++	360 10	340 10	300 07	300 07	300 07	270 07	280 18	280 28	260 26	270 22	250 22						
	120530	P	000 00	+++ ++	030 10	030 07	020 07	340 05	030 08	020 14	030 27	020 35	350 33	320 21	290 26	290 19	260 10				
	121130	T	030 03	+++ ++	280 05	350 02	350 02	250 01	360 10	040 23	030 35	010 45	010 52	340 24	300 25	290 13					
	121730	P	210 03	+++ ++	250 04	260 06	270 08	270 11	280 15	300 14	310 21	310 25	300 34	290 31	280 27	270 20					
CAMBORNE 03808	112330	T	310 08	+++ ++	340 15	350 11	340 12	340 15	340 21	360 28	360 47	360 65	350 65	330 35	300 32	270 17	230 07				
	120530	P	310 02	+++ ++	320 08	340 11	340 08	340 13	340 21	350 28	340 33	330 45	330 46	310 49	300 33	280 17	290 05				
	121130	T	320 08	+++ ++	280 07	300 06	270 05	270 07	310 07	310 18	300 25	290 39	280 43	280 42	280 25	270 15					
	121730	P	260 10	+++ ++	240 12	240 15	260 16	290 18	280 26	280 27	270 37	290 43	290 50	280 52	280 36	280 26	250 07				
VALENTIA 03953	112340	T	000 00		310 03	310 04	290 04	290 04	320 08	330 17	330 26	330 26	330 35	320 39	310 37	300 26	300 15				
	121130	T	200 14		200 19	210 27	220 26	230 27	270 21	260 34	250 50	250 46	270 58	270 55	270 41	270 22	280 14	300 08			
Ocean Weather Station 'I' 59°00'N 19°00'W	120000	T	140 24	+++ ++	190 15	190 11	190 10	260 11	210 12	240 14	210 19	190 26	200 32	250 15	300 15	310 10					
	120600	P	315 20	+++ ++	320 19	300 14	280 11	260 07	290 08	240 12	210 16	180 14	260 20	300 21	280 18	290 12	300 03	230 03	090 07		
	121200	T	290 26	+++ ++	310 26	310 22	320 20	320 21	320 19	340 07	330 08	330 68	330 63	320 31	320 14	320 08					
	121800	P	315 30	+++ ++	310 31	300 28	320 30	310 26	300 30	300 24	310 27	300 39	300 46	300 48	300 26	300 13					
Ocean Weather Station 'J' 52°30'N 20°00'W	120000	T	240 24	250 22	270 25	250 30	240 35	230 42	240 43	240 42	240 51	250 60	230 67	240 50	240 12						
	120600	P	320 20	+++ ++	300 23	290 27	290 30	280 35	290 45	300 50	310 57	300 63	300 65	300 45	300 28	300 19					
	121200	T	310 16	320 18	310 24	310 26	300 28	300 32	310 33	310 42	300 46	310 47	320 44	320 47	320 33	310 20	000 00	000 00	000 00		
	121830	P	310 12	+++ ++	320 17	310 17	310 19	280 24	310 28	300 34	310 29	320 38	320 48	310 55	310 37	000 00					
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	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C
1218	53.5°N 25.3°W	024 017 670	061 13 11	201 10 01	1076 08 01	1545 06 02	2045 07 01	05 02	3130 02 24	01 30	4356 07 25	09 32	5781 15 17	
Cloud:— 1/8 Ac. 19000 to 20000 ft. 7/8 Cs. 25000 ft. to T.N.G. Inversion 970mb to 950mb 92°C to 10°C 850mb to 800mb 6°C to 62°C Levels:— Isothermal Levels:—														
YYGGgg	POSITION	PRESSURE	SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL Surf. 0°C level	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C
1349	57.3°N 23.3°W	018 010 758	061 12 12	143 10 05	1018 07 06	1484 05 02	1978 03 02	01 12	3045 02 35	05 16	4252 09 16	14 14	5639 15 15	
Cloud:— 1/8 Sc. at 5000 ft. 1/8 Ac. at 10000 ft. 5/8 Ac. 17000 to 18000 ft. 7/8 Ci 20000 ft. to T.N.G. 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	224mb. 320 40 19800m. 310 05 10550/1 11020/1 P21600m 210 03 21600m 280 05	330 82 09600m 320 78 10320m 310 71 10010m
STORNOWAY 03026	073mb. 310 04 033mb 350 04 21600m 120 03 06240/2 11900/3	
SHANWELL 03170	21980m 120 03 12240/1 123mb 290 16	
ALDERGROVE 03917	16,900m 290 15 11080/1 12020/1 13000/1 19,200m 270 03 25800m 090 10 05200/5 10700/4 12270/2	350 62 10820m
AUGHTON 03322	080mb 270 08 19500m 270 06 11360/1 038mb 220 04 04800m 210 32 05330/2	020 69 09400m
HEMSBY 03496	528mb 330 07 091 mb 230 15 08350m 020 34 22600m 120 07 05450/2 08570/0 09540/1 10000/1 10500/5 24600m 110 04	
CRAWLEY 03774	18,600m 250 12 10630/1 16800m 270 13	
CAMBORNE 03808	233mb 350 51 20100m 190 07 079mb 260 08	360 67 09270m
VALENTIA 03953		
Ocean Weather Station 'I' 59°00'N 15°00'W	757mb 220 05 268mb. 200 35 078mb 280 12 04800m 260 14 09900m 220 19 24000m 09006 355mb 330 40 230mb 320 46 088mb 320 05 16100m 300 15 10060/0 11800/1	
Ocean Weather Station 'J' 52°30'N 20°00'W	127mb 240 07 458mb 300 65 098mb 300 18 289mb 310 52 079mb 000 00 027mb 000 00 536mb 310 42 078mb 000 00	230 67 10560m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The westerly stream over eastern Canada and the north Atlantic has extended further east and the ridge west of the British Isles has weakened as a trough intensifies south of Iceland. The trough over the British Isles has continued to move slowly east and has relaxed considerably. The south-westerly stream over Europe has been maintained. A blocking high persists over the Barents Sea.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height Temp.	Extreme Temps. Max. Min.	Wind* V _R V _S
mb.	gpm. °C	°C °C	° Kt. Kt.
40	22435 -47.1	-44 -56	201 3 7
60	19760 -48.1	-41 -54	213 4 9
100	16400 -48.3	-42 -57	235 9 14
150	13730 -48.4	-42 -63	242 13 24
200	11845 -49.7	-40 -64	243 16 34
300	9190 -44.7	-34 -53	232 17 41
400	7205 -30.0	-19 -39	230 15 33
500	5580 -18.4	-10 -27	229 13 27
700	2985 -2.7	4 -10	230 10 20
850	1425 4.8	16 -2	229 7 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height Temp.	Extreme Temps. Max. Min.	Wind* V _R V _S
mb.	gpm. °C	°C °C	° Kt. Kt.
40	22425 -49.2	-45 -56	158 2 6
60	19780 -50.8	-43 -57	224 3 9
100	16470 -52.4	-43 -62	267 13 18
150	13845 -52.3	-42 -69	273 23 31
200	11980 -52.4	-40 -63	274 27 43
300	9325 -42.4	-34 -52	271 27 45
400	7320 -27.2	-18 -37	270 23 36
500	5680 -15.7	-8 -24	267 20 30
700	3060 0.1	7 -6	262 14 22
850	1480 7.7	17 2	260 10 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

Press. Level	Average Height Temp.	Extreme Temps. Max. Min.	Wind* V _R V _S
mb.	gpm. °C	°C °C	° Kt. Kt.
40	(22330) (-55.6)	... ..	100 14 15
60	19780 -60.8	-54 -68	110 7 11
100	16655 -66.8	-58 -74	250 21 24
150	14175 -60.2	-53 -70	255 41 45
200	12345 -50.9	-44 -59	265 44 49
300	9620 -35.2	-29 -44	275 31 37
400	7555 -20.4	-16 -27	285 23 29
500	5865 -8.6	-4 -14	290 19 24
700	3170 8.9	13 1	310 15 19
850	1540 18.4	27 12	310 7 11

Tropopause	Average Press. Temp.	Max. Press. Min. Press.	Max. Temp. Min. Temp.
Upper	mb. °C	mb. °C	°C °C
Lower	102 -68.1	72 ...	-75 ...
	(195) (-59.1)	...	...

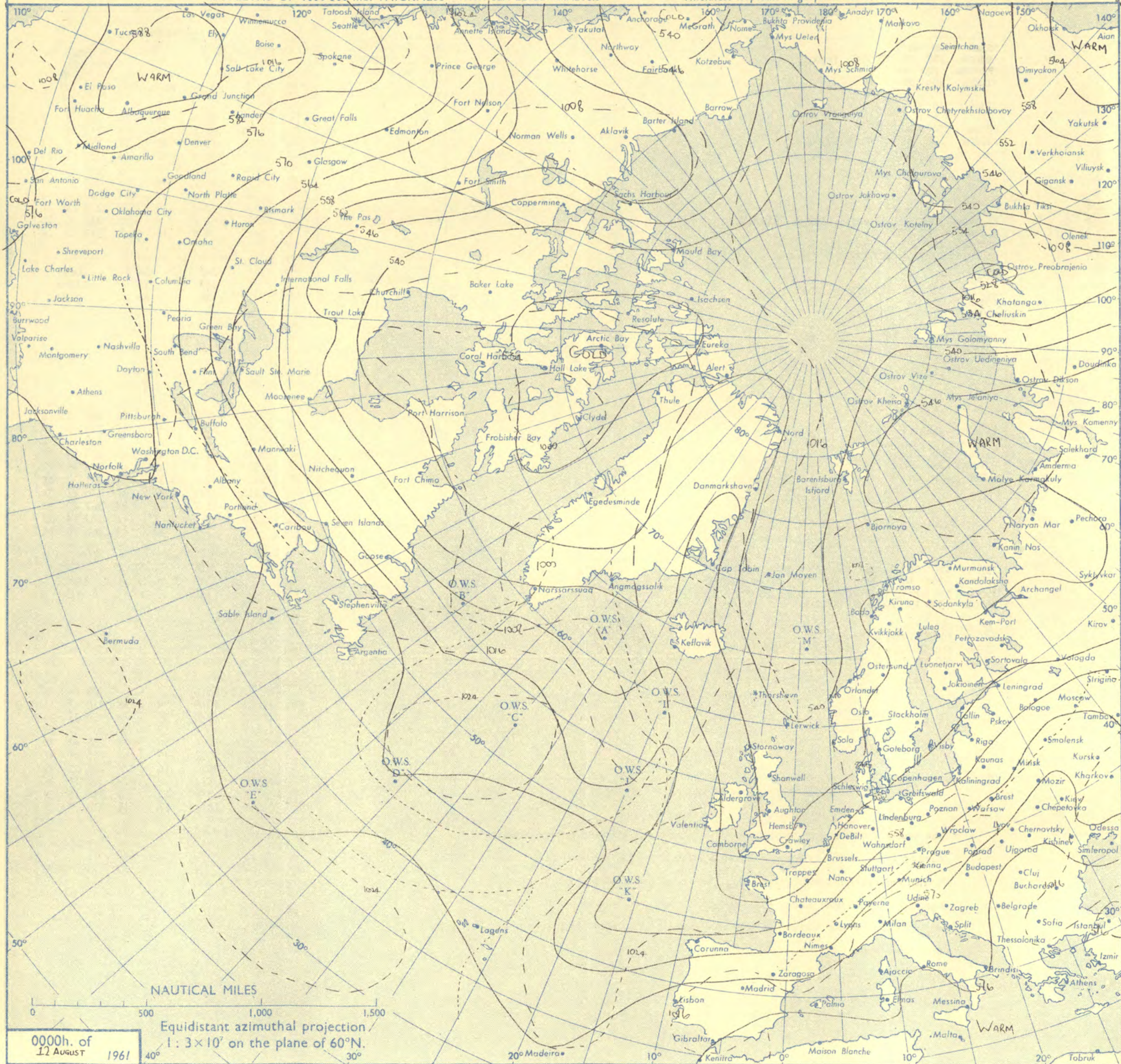
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

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

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

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

Thickness isopleths in geopotential decametres



Isopleths in geopotential decametres



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	122336	082	10	10	137	10	08	1470	02	02-	3011	06-	12-	5591	20-	24-	7213	30-	35-	9193	47-	++	11799	50-	13696	47-	16380	47-												
	131147	082	13	12	105	13	12	1446	04	00	2998	06-	10-	5575	19-	22-	7194	32-	36-	5160	47-	++	11785	47-	13695	46-	16408	45-	18784	45-	21031	46-								
STORNOWAY 03026	122330	013	13	11	111	11	10	1455	05	04	3020	03-	04-	5612	19-	22-	7237	30-	34-	9217	47-	++	11816	50-	13704	50-	16363	49-	18703	49-	20920	48-								
	131130	013	15	12	106	14	11	1449	05	02	3015	02-	05-	5613	18-	26-	7239	30-	36-	9223	46-	++	11854	50-	13747	48-	16408	48-	18765	47-	20997	47-								
SHANWELL 03170	122330	005	12	11	143	12	10	1485	04	03	3043	04-	05-	5633	18-	21-	7268	29-	33-	9258	46-	++	11878	47-	13779	49-	16443	47-												
	131138	005	18	12	113	15	08	1462	05	03	3021	04-	07-	5612	18-	23-	7245	29-	34-	9230	46-	++	11858	47-	13765	48-	16434	48-	18780	48-	21005	47-								
ALDERGROVE 03917	122330	077	13	12	142	12	11	1485	05	04	3044	03-	16-	5615	21-	24-	7219	35-	37-	9174	46-	++	11867	46-	13773	49-														
	131130	077	15	11	154	14	10	1497	04	03	3058	03-	16-	5653	17-	30-	7291	28-	39-	9282	45-	++	11922	48-	13817	50-	16472	49-	18825	48-	21044	48-	24426	45-						
AUGHTON 03322	122330	056	13	10	174	13	08	1518	06	01-	3075	03-	06-	5660	20-	24-	7273	32-	40-	9247	46-	++	11926	46-	13832	48-														
	131130	056	16	12	153	15	12	1500	04	02	3055	03-	12-	5624	22-	26-	7230	33-	38-	9190	47-	++	11885	46-	13793	47-	16455	49-	18810	47-	21044	46-								
HEMSBY 03496	122330	012	12	10	193	13	09	1546	05	03	3102	04-	12-	5700	18-	28-	7340	28-	31-	9332	45-	++	11932	51-	13811	50-	16460	49-												
	131130	012	17	11	160	15	08	1505	04	00	3054	05-	08-	5623	22-	26-	7227	34-	39-	9195	45-	++	11847	48-	13742	50-	16383	51-	18705	50-										
CRAWLEY 03774	122330	144	12	11	203	13	11	1549	05	01-	3110	03-	16-	5709	17-	22-	7343	29-	34-	9326	46-	++	11923	53-	13797	50-														
	131134	144	15	11	173	14	10	1520	05	03	3079	03-	05-	5662	19-	24-	7300	26-	31-	9322	39-	45-	12042	43-	13970	45-	16669	46-												
CAMBORNE 03808	122330	088	14	12	199	13	10	1541	04	00	3111	01-	02-	5723	15-	22-	7373	25-	31-	9403	40-	++	12051	57-	13903	51-	16540	52-												
	131130	088	16	11	189	14	10	1529	04	01	3105	01-	15-	5698	16-	21-	7339	28-	34-	9339	44-	++	11994	52-	13861	51-	16489	52-	18806	51-	20998	51-	24332	49-						
VALENTIA 03953	130000	014	13	08	179	12	08	1514	02	00	3082	00	17-	5700	16-	21-	7350	26-	31-	9370	43-	++	11990	56-	13840	52-	16470	51-												
	131144	014	16	12	207	11	08	1545	05	02-	3110	01-	11-	5720	16-	33-	7360	29-	41-	9360	44-	++	11980	59-	13820	54-														
Ocean Weather Station 'I' 59°00'N 19°00'W	130000		13	11	130	11	09	1476	07	01-	3042	03-	04-	5650	16-	41-	7290	28-	49-	9280	45-	++	11900	51-	13780	51-														
	131200		12	09	117	10	07	1450	09	12-	3028	01	26-	5650	13-	33-	7310	27-	37-	9330	40-	46-	11980	56-	13850	51-	16500	51-												
Ocean Weather Station 'J' 52°30'N 20°00'W	130000		14	11	227	11	05	1570	08	01-	3170	04	19-	5820	12-	31-	7490	23-	33-	9530	38-	50-	12200	56-	14020	54-	16630	51-												
	131200		14	10	238	12	09	1600	09	05-	3189	03	17-	5850	10-	17-	7540	20-	28-	9600	36-	43-	12280	58-	14060	59-	16620	55-	18920	51-	21110	49-								

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	03 4567+	017	007	808	001 ++ 08 894 ++ 00 858 ++ 01- 755 ++ 15- 710 06- 12- 684 06- 10- 576 12- 16- 478 22- 26- 386 32- 38- 336 40- 46- 250 56- 226 59- 205 51- 180 47- 100 47- 083 45-	226	11000	59-
	02 6637+	013	003	776	985 11 09 952 ++ 07 916 ++ 01- 875 ++ 01 843 ++ 00 810 ++ 08- 790 ++ 02- 760 01- 08- 702 06- 10- 609 10- 256 + 10200 55- 13- 452 24- 28- 405 31- 35- 346 40- 44- 256 55- 250 55- 233 55- 200 47- 121 44- 100 45- 063 45- 040 47-	256	10200	55-
STORNOWAY 03026	02 856++	013	013	757	003 11 10 947 ++ 09 813 ++ 03 779 02 11- 749 01- 07- 731 01- 04- 706 ++ 04- 652 ++ 07- 619 08- 12- 482 ++ 23- 469 22- 25- 411 ++ 33- 384 ++ 38- 335 40- 46- 258 55- 250 57- 229 61- 196 49- 050 48-	229	10990	61-
	80 724++	013	011	740	912 07 05 871 06 04 804 ++ 01- 745 ++ 02- 664 ++ 09- 580 ++ 23- 566 11- 22- 520 ++ 23- 432 26- 36- 404 ++ 36- 332 40- 45- 255 54- 250 54- 187 48- 117 50- 046 46- 037 44-	255	10280	54-
SHANWELL 03170	61 864++	017	017	778	000 12 10 706 03- 04- 496 18- 21- 330 40- 43- 250 56- 233 60- 220 51- 203 47- 126 49- 100 47- 086 48-	233	10910	60-
	02 62500	013	013	769	999 15 08 915 09 06 721 03- 05- 693 ++ 07- 673 ++ 12- 657 ++ 14- 578 11- 15- 549 ++ 17- 440 24- 30- 322 40- 46- 250 56- 240 58- 199 47- 100 48- 048 47-	240	10700	58-
ALDERGROVE 03917	02 856++	017	008	769	767 00 01- 729 ++ 05- 722 04- 07- 700 03- 16- 695 ++ 20- 650 ++ 16- 588 14- 20- 569 14- 18- 535 ++ 19- 442 ++ 32- 415 33- 35- 405 ++ 36- 356 40- 45- 307 46- 250 48- 246 48- 215 44- 148 49-	307	09010	46-
	02 784++	018	009	742	961 10 08 825 ++ 02 800 01 02- 791 01 06- 767 02 16- 740 ++ 12- 718 ++ 03- 705 03- 12- 696 ++ 21- 688 03- 11- 656 06- 10- 643 ++ 13- 633 ++ 11- 592 ++ 17- 582 ++ 16- 529 14- 25- 378 32- 43- 253 55- 250 55- 209 48- 039 49- 033 44- 030 45-	253	10370	55-
AUGHTON 03322	02 856++	021	014	783	999 13 08 936 09 04 890 07 00 848 05 01- 778 01- 06- 720 04- 06- 712 03- 05- 650 06- 09- 475 23- 27- 428 28- 37- 368 36- 43- 285 49- 250 49- 186 46- 105 49-	285	09580	49-
	02 5253+	018	011	769	948 09 07 793 00 02- 778 01 02- 743 03- 08- 718 02- 10- 698 ++ 13- 564 15- 24- 516 ++ 24- 352 40- 45- 277 49- 250 47- 225 44- 109 50- 050 46-	277	09720	49-
HEMSBY 03496	02 45600	023	021	782	007 13 10 987 13 10 968 13 09 952 ++ 06 880 07 05 818 ++ 02- 763 01- 03- 728 02- 11- 700 04- 12- 693 ++ 14- 642 06- 17- 612 07- 27- 570 10- 33- 547 ++ 26- 503 ++ 26- 496 ++ 28- 490 19- 28- 479 19- 25- 462 20- 24- 363 34- 36- 328 40- 44- 250 55- 228 60- 212 59- 200 51- 073 48-	228	11100	60-
	03 7356+	019	017	799	002 15 08 900 ++ 04 836 03 01- 781 01- 02- 739 ++ 06- 716 04- 07- 629 ++ 14- 618 10- 20- 604 11- 22- 572 14- 23- 564 15- 21- 499 23- 27- 470 25- 33- 395 35- 40- 336 40- 49- 257 53- 250 52- 203 48- 163 47- 127 52- 066 49- 053 52-	257	10170	53-
CRAWLEY 03774	02 755++	025	007	765	995 13 11 956 10 08 942 11 05 934 ++ 01 913 ++ 00 830 ++ 01 784 ++ 07- 747 01- 09- 722 01- 11- 632 ++ 28- 610 ++ 27- 589 ++ 18- 569 10- 21- 521 16- 28- 512 16- 22- 483 ++ 23- 436 ++ 27- 383 31- 35- 335 ++ 45- 250 57- 246 58- 229 59- 194 52- 110 51-	246	10610	58-
	62 4742+	021	003	768	920 ++ 06 904 06 04 873 06 04 581 12- 16- 525 18- 23- 428 23- 28- 318 37- 43- 250 45- 240 47- 201 43- 135 46- 077 46-	240	10320	47-
CAMBORNE 03808	60 8097+	024	013	720	002 ++ 10 907 ++ 05 852 04 01 827 04 02- 818 05 02 782 04 03 661 03- 04- 596 08- 10- 580 11- 15- 569 10- 17- 527 13- 21- 445 21- 25- 416 23- 28- 381 ++ 32- 359 30- 39- 305 39- 50- 250 52- 208 58- 166 51- 080 51-	208	11800	58-
	01 32540	023	012	707	999 13 09 970 ++ 08 917 07 02 854 03 00 833 07 01- 815 ++ 08- 793 06 12- 721 ++ 17- 707 00 15- 653 ++ 12- 561 13- 17- 489 17- 23- 472 19- 27- 453 21- 28- 319 40- 46- 275 49- 250 51- 247 51- 115 52- 030 49-	247	10630	51-
VALENTIA 03953	03 884++	021	020	672	923 06 04 898 05 04 832 01 04- 780 05 12- 712 01 16- 672 00 17- 537 13- 20- 457 16- 22- 250 53- 249 54- 213 58- 176 52- 090 51-	213	11600	58-
	01 685++	025	023	725	002 12 08 906 05 03 846 05 02- 810 03 05- 737 01 16- 647 05- 11- 577 11- 16- 559 10- 20- 379 32- 42- 250 53- 238 55- 216 55- 200 59- 177 53- 133 54-	200	11980	59-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 8092+	016	016	745	976 10 07 950 09 01- 929 08 02 869 08 01- 787 02 00 754 ++ 00 625 08- 10- 613 07- 11- 570 ++ 24- 540 ++ 35- 479 18- 43- 402 28- 49- 330 40- 295 45- 250 55- 244 56- 192 50- 184 51- 165 50- 158 52- 147 51-	244	10600	56-
	02 885++	014	014	690	993 10 07 895 03 02 890 ++ 03 858 09 11- 656 ++ 33- 538 11- 31- 500 13- 33- 405 ++ 37- 392 28- 35- 385 29- 35- 301 40- 46- 250 50- 221 57- 199 56- 189 51- 120 49- 100 51- 084 50-	221	11400	57-
Ocean Weather Station 'J' 52°30'N 20°00'W	21440	026	026	655	975 11 01 901 09 00 877 08 00 758 06 15- 705 05 18- 635 02- 25- 505 12- 32- 454 17- 28- 393 23- 33- 365 28- 38- 291 39- 50- 250 48- 231 52- 191 57- 179 58- 159 55- 109 53-	191	12500	57-
	10492	028	028	640	990 12 09 975 11 03 890 09 03- 830 10 06- 800 09 09- 700 03 17- 675 01 06- 620 01- 09- 564 09- 17- 351 27- 34- 281 40- 49- 250 47- 171 65- 139 57- 050 50-	171	13300	65-

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	130001	P	000 00	+++ ++	170 08	220 06	260 08	270 19	300 27	290 28	290 34	290 43	280 41	300 26	300 20	250 10					
	130530	P	140 03	+++ ++	150 09	250 06	270 09	270 12	250 15	280 21	280 32	280 36	280 40	300 28							
	131147	T	100 04	+++ ++	150 08	170 08	210 08	240 19	270 17	260 23	250 27	280 21	290 23	300 25	300 19	290 10	290 05	300 04			
	131730	P	140 06	+++ ++	180 08	230 05	240 10	250 15	270 15	280 13	270 25	290 32	300 33	300 29	300 25	300 21	300 10	270 04	030 02		
STORNOWAY 03026	122330	T	170 16	+++ ++	200 25	200 21	200 18	220 10	230 05	270 09	200 10	200 10	210 11	310 17	320 20	300 11	300 07				
	130530	P	190 04	+++ ++	230 12	240 12	240 14	250 11	280 13	300 16	290 18	270 19	300 23	320 26	310 23	320 15	300 05				
	131130	T	270 14	+++ ++	280 21	280 20	300 19	300 21	280 19	270 20	300 28	310 31	320 36	320 33	310 28	320 13	270 09	290 02			
	131735	P	270 12	+++ ++	290 27	290 29	290 30	280 25	300 30	300 34	320 51	320 54	310 67	310 16	300 33	310 21	320 11	290 07			
SHANWELL 03170	122330	T	210 02	+++ ++	230 25	230 22	250 19	260 18	260 18	230 12	160 17	150 20	160 26	280 08	300 20	290 12					
	130530	P	000 00	+++ ++	260 14	260 14	250 13	240 12	250 10	280 07	070 10	080 24	060 15	310 18	300 18	300 16	290 07	030 05			
	131138	T	270 12	+++ ++	270 13	280 15	270 13	290 14	320 15	320 18	340 21	330 22	330 23	330 22	300 22	300 12	280 07				
	131730	P	270 11	+++ ++	300 19	300 14	310 15	310 21	300 20	300 25	320 32	320 34	320 43	320 37	300 23	310 22					
ALDERGROVE 03917	122330	T	240 06	+++ ++	280 16	270 16	260 17	240 18	260 23	280 25	280 18	310 22	300 29	300 26							
	130530	P	250 09	+++ ++	290 22	290 28	300 14	310 17	310 16	320 23	350 27	340 35	330 34	310 32	310 20	310 14	320 11				
	131130	T	270 16	+++ ++	300 19	320 18	310 16	320 21	330 24	330 21	330 34	340 45	340 51	330 40	320 28	310 11	290 06	290 03	040 10		
	131730	P	290 10	+++ ++	290 22	310 24	320 24	320 26	320 28	320 38	330 59	330 64	330 87	330 57	320 31	300 18					
AUGHTON 03322	122330	T	190 07	+++ ++	230 23	230 18	230 15	260 18	280 19	230 24	230 28	250 44	240 37	270 29	280 23						
	130530	P	160 04	+++ ++	240 21	250 22	250 22	250 26	260 22	280 26	280 29	280 35	290 35	300 32	290 20	310 14	290 10				
	131130	T	270 09	+++ ++	280 13	280 18	260 20	260 14	270 20	300 22	340 34	350 40	330 34	320 28	310 25	310 10	310 04				
	131730	P	270 09	+++ ++	300 22	310 21	310 19	320 16	320 19	320 24	320 34	330 37	330 52	330 39	320 24	310 21					
HEMSBY 03496	122330	T	190 07	+++ ++	240 15	260 13	280 11	240 17	240 18	240 28	250 29	230 31	250 38	260 28	270 24	260 12					
	130536	P	230 03	+++ ++	240 20	230 26	230 25	220 19	250 21	240 34	230 47	210 39	250 40	260 29	280 20	290 19	260 08				
	131130	T	210 12	+++ ++	220 16	240 19	240 18	270 12	270 17	250 18	260 34	250 66	250 62	270 30	280 20	260 15	270 08				
	131730	P	240 10	+++ ++	250 12	250 13	260 13	270 11	290 09	310 15	300 17	300 23	300 21	290 24	290 19	290 15	300 11				
CRAWLEY 03774	122330	T	230 04	+++ ++	210 14	210 12	230 14	250 19	260 32	250 29	260 32	270 39	270 43	280 35	260 26						
	130530	P	180 05	+++ ++	240 17	240 17	230 20	240 25	260 33	260 39	270 49	270 57	280 61	280 41	280 29	290 17					
	131134	T	200 12	+++ ++	230 18	260 16	270 13	240 13	240 21	270 29	260 44	260 47	260 52	280 34	290 25	270 10					
	131730	P	180 02	+++ ++	290 09	320 12	320 17	300 14	290 21	300 30	320 54	330 69	320 44	290 35	300 23	300 18	300 06	280 04	050 03		
CAMBORNE 03808	122330	T	200 07	+++ ++	240 21	260 20	260 22	280 24	280 35	270 39	280 42	300 43	310 47	300 53	280 36	280 20					
	130530	P	260 10	+++ ++	260 19	250 22	260 31	280 28	290 34	290 44	290 44	280 56	290 63	300 50	280 27						
	131130	T	320 16	+++ ++	320 20	320 25	320 26	310 28	300 32	310 38	310 47	300 43	320 58	300 48	290 34	290 14	290 07	220 04			
	131730	P	300 12	+++ ++	330 22	340 27	330 24	320 27	320 31	320 37	320 36	340 46	350 78	330 38	310 32	300 19	300 09				
VALENTIA 03953	130000	T	320 07	330 10	310 18	310 20	310 27	310 36	310 46	310 49	300 51	310 62	310 66	310 58	310 30	300 09					
	131144	T	330 10	330 14	330 18	340 22	320 28	320 25	320 29	330 46	330 50	350 78	350 83	340 70	310 34						
Ocean Weather Station 'I' 59°00'N 19°00'W	130000	T	270 16	+++ ++	280 25	270 25	270 28	290 24	300 28	310 41	300 43	310 69	310 63	300 46							
	130600	P	225 20	+++ ++	260 30	260 30	260 32	270 28	280 29	280 35	280 45	290 68	300 100	310 96	320 55	290 32	290 18				
	131200	T	270 16	+++ ++	280 24	280 32	290 36	280 36	280 43	280 57	290 58	300 89	290 95	300 78	290 32	290 18					
	131800	P	270 10	+++ ++	280 27	280 36	290 37	290 45	290 57	290 66	300 85	300 81	300 72	300 53	310 26	300 05	290 04	000 00			
Ocean Weather Station 'J' 52°30'N 20°00'W	130000	T	290 12	300 13	320 16	320 20	320 22	290 24	300 34	310 38	310 36	310 58	300 58	300 52	300 32	300 13					
	130600	P	280 14	+++ ++	290 21	300 18	300 20	300 20	300 16	310 31	300 40	300 42	340 48	320 53	330 26	320 02	320 02	320 24			
	131200	T	270 16	270 16	270 16	290 20	290 24	300 22	300 17	310 30	320 35	320 42	310 38	310 44	310 34	310 19					
	131800	P	270 20	+++ ++	290 27	300 26	300 24	310 31	320 36	310 41	320 46	310 34	310 44	310 39	310 29						
LARKHILL 03743																					

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

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

UPPER WINDS AT ADDITIONAL LEVELS

STATION		MAX. WIND
LERWICK 03005	17700m 270 07 043mb 260 03 24300m 220 03	
STORNOWAY 03026	055mb 250 08 19300m 300 08 042mb 290 03 22900m 010 03	310 68 10180m
SHANWELL 03170	436mb 170 14 227mb 180 15 10070m 080 23 06340/8 11020/5 052mb 230 06 17200m 330 13	
ALDERGROVE 03917	158mb 280 23 442mb 330 28 18000m 330 10 06880/0 11600/1 12100/1	340 90 10880m
AUGHTON 03322	115mb 290 18 053mb 210 03 17700m 300 09 11790/1	
HEMSBY 03496	081mb 270 13 05510/0 11250/1 224mb 260 47 061mb 270 06	250 68 08800m
CRAWLEY 03774	117mb 290 17 17100m 290 13 11360/1 082mb 270 12 24900m 050 04 05650/0 09930/1 10350/1	290 63 11150m 330 69 09300m
CAMBORNE 03808	15000m 310 27 10740/1 034mb 120 06 20100m 330 05 11430m 340 52 09040/0 09530/0 10930/1 11430/1	280 68 10530m 320 61 10850m 350 80 10690m
VALENTIA 03953		300 67 10500m 360 85 09900m
Ocean Weather Station 'I' 59°00'N 19°00'W	327mb 290 56 153mb 300 32 09600m 290 84 12900m 310 81 19200m 290 14 177mb 290 56 090mb 290 15 14700m 330 40 24000m 000 00	290 81 09890m 310 102 10880m 310 96 11460m 300 93 09100m
Ocean Weather Station 'J' 52°30'N 20°00'W	179mb 300 55 138mb 300 24 049mb 320 24 124mb 310 12	
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The deepening trough over eastern Canada is moving slowly east. The downstream flow over the Atlantic is mainly westerly but contains minor troughs which are moving more quickly east towards the more important downstream trough over western Europe.

AVERAGE AND EXTREME VALUES 1951-55							
AUGUST							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22435	-47.1	-44	-56	201	3	7
60	19760	-48.1	-41	-54	213	4	9
100	16400	-48.3	-42	-57	235	9	14
150	13730	-48.4	-42	-63	242	13	20
200	11845	-49.7	-40	-64	243	16	34
300	9190	-44.7	-34	-53	232	17	41
400	7205	-30.0	-19	-39	230	15	33
500	5580	-18.4	-10	-27	229	13	27
700	2985	-2.7	4	-10	230	10	20
850	1425	4.8	16	-2	229	7	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		243	-54.8		10645		
Max.		367	-38		13990		
Min.		150	-66		7590		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22425	-49.2	-45	-56	158	2	6
60	19780	-50.8	-43	-57	224	3	9
100	16470	-52.4	-43	-62	267	13	18
150	13845	-52.3	-42	-69	273	23	31
200	11980	-52.4	-40	-63	274	29	43
300	9325	-42.4	-34	-52	271	27	45
400	7320	-27.2	-18	-37	270	23	36
500	5680	-15.7	-8	-24	267	20	30
700	3060	0.1	7	-6	262	14	22
850	1480	7.7	17	2	260	10	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		226	-55.9		11245		
Max.		343	-41		14235		
Min.		145	-67		8230		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22330)	(-55.6)	...	...	100	14	15
60	19780	-60.8	-54	-68	110	7	11
100	16655	-66.8	-58	-74	250	21	24
150	14175	-60.2	-53	-70	255	41	45
200	12345	-50.9	-44	-59	265	44	49
300	9620	-35.2	-29	-44	275	31	37
400	7555	-20.4	-16	-27	285	23	29
500	5865	-8.6	-4	-14	290	19	24
700	3170	8.9	13	1	310	15	19
850	1540	18.4	27	12	310	7	11
Tropopause		Average	Max.	Min.	Max.	Min.	
		Press.	Press.	Press.	Temp.	Temp.	
		mb.	mb.	mb.	°C	°C	
Upper		102	-68.1	...	72	...	-75
Lower		(195)	(-59.1)	...	...	...	...

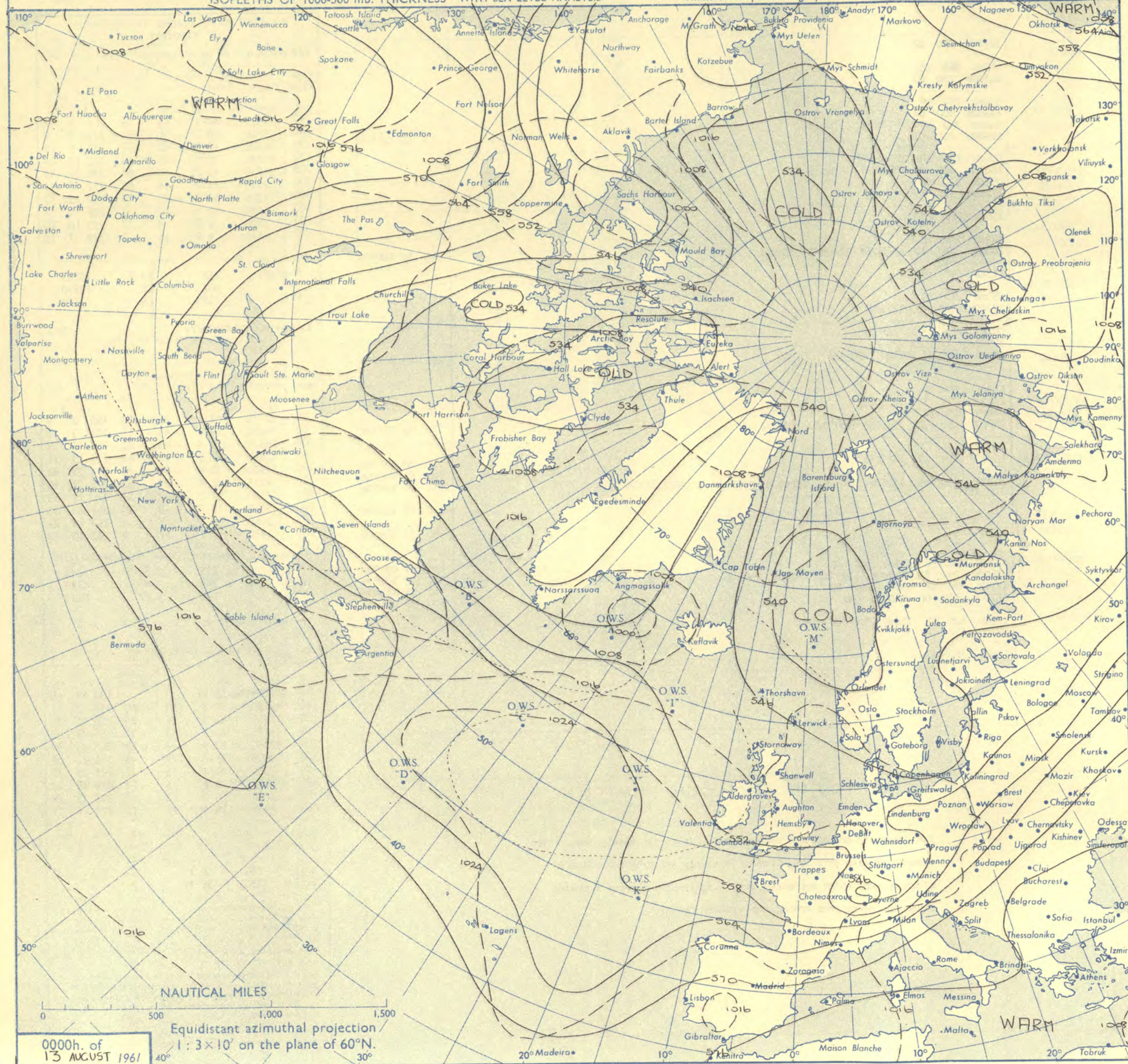
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

† 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

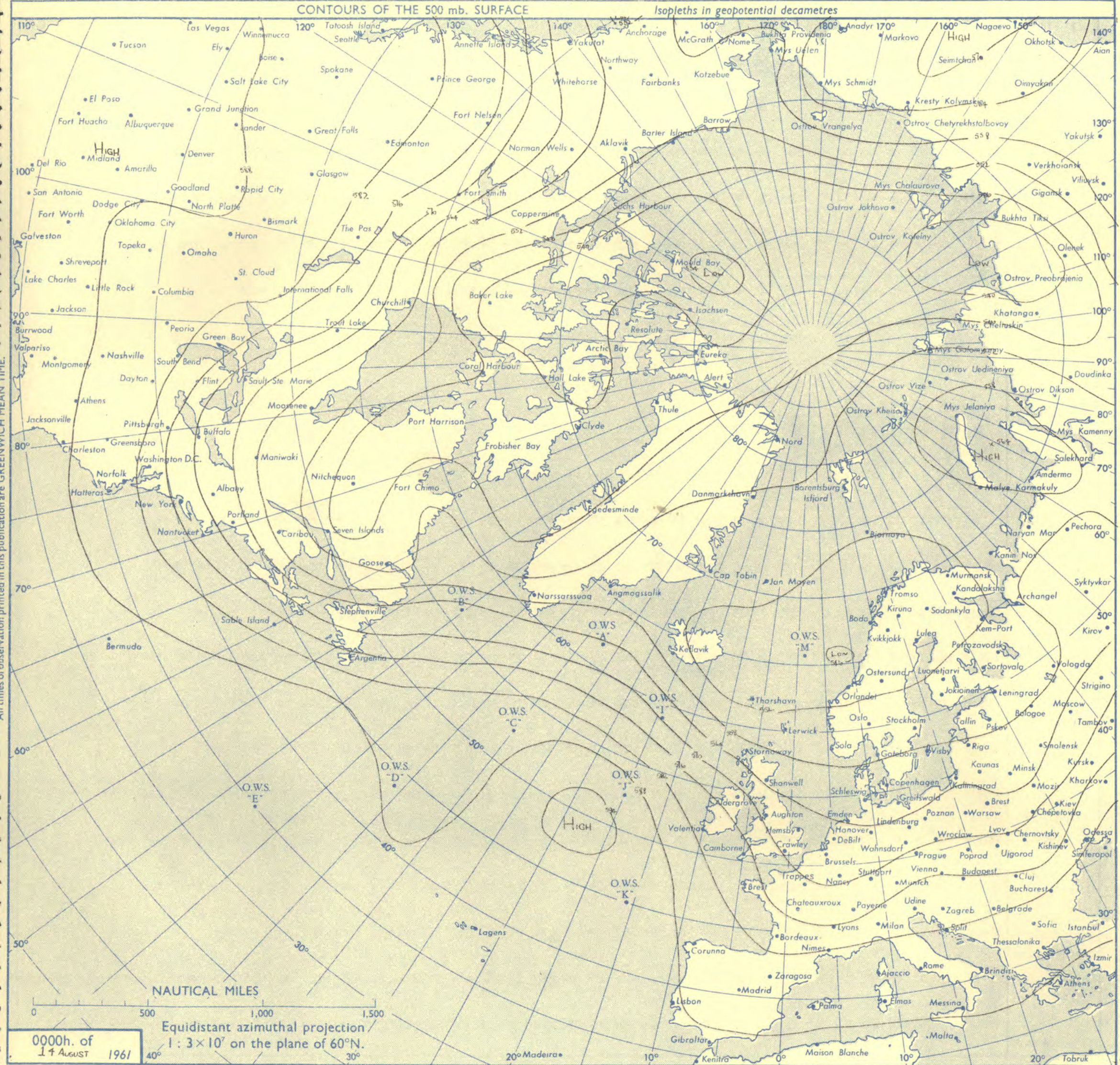
Thickness isopleths in geopotential decametres



NAUTICAL MILES

Equidistant azimuthal projection
1:3x10⁷ on the plane of 60°N.

0000h. of
13 AUGUST 1961



STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb		150mb		100mb		70mb		50mb		30mb	
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C		
LERWICK 03005	132330	082	11	11	064	++	++	1404	05	03	2966	04-	06-	5539	21-	30-	7147	34-	47-	9096	50-	++	11784	45-	13704	46-	16395	47-	18755	47-				
	141210	082	12	11	038	++	++	1385	04	02	2933	06-	09-	5499	21-	30-	7105	34-	43-	9068	47-	++	11774	42-	13721	43-	16442	45-	18819	46-	21054	47-	24436	47-
STORNOWAY 03026	132332	013	11	09	113	10	08	1444	02	01	3001	03-	32-	5583	18-	++	7208	30-	++	9203	44-	+++	11837	51-	13716	50-	16367	50-	18698	50-	20903	49-		
	141130	013	13	10	111	11	07	1442	01	00	2980	06-	16-	5542	18-	43-	7175	29-	++	9158	46-	++	11825	45-	13732	48-	16405	49-	18748	49-				
SHANWELL 03170	132330	005	12	09	119	13	09	1470	06	02	3034	04-	07-	5629	16-	30-	7270	28-	33-	9265	44-	++	11890	53-	13772	47-	16433	49-	18781	48-				
	141130	005	15	12	098	13	06	1433	02	01	2975	05-	13-	5551	19-	35-	7194	26-	37-	9199	45-	++	11862	46-	13764	50-	16423	49-						
ALDERGROVE 03917	132330	077	12	09	165	11	08	1502	05	03	3076	01	29-	5703	14-	32-	7358	26-	36-	9379	42-	++	11999	59-	13851	52-	16491	51-	18828	50-				
	141130	077	17	10	155	13	08	1491	03	02	3057	02-	05-	5675	14-	17-	7335	25-	29-	9359	42-	++	11993	54-	13859	51-	16512	46-	18874	47-	21118	45-	24562	38-
AUGHTON 03322	132330	056	14	12	168	14	12	1512	05	01	3073	03-	97-	5686	16-	37-	7332	28-	42-	9341	42-	++	11981	57-	13840	50-	16492	50-	18821	50-	21029	49-		
	141130	056	15	11	153	13	09	1493	04	20-	3052	03-	37-	5658	15-	18-	7311	26-	31-	9328	42-	++	11943	58-	13782	55-	16398	51-	18720	50-				
HEMSBY 03496	132330	012	13	12	151	13	11	1499	05	01	3059	03-	08-	5647	18-	38-	7269	31-	39-	9244	47-	++	11893	48-	13791	49-	16443	50-						
	141130	012	17	17	144	14	10	1485	04	03-	3052	01-	07-	5643	17-	19-	7290	27-	31-	9310	42-	++	11937	56-	13798	50-	16447	50-	18795	48-				
CRAWLEY 03774	132330	144	13	12	172	13	11	1522	05	03	3083	02-	09-	5692	17-	26-	7330	28-	36-	9322	44-	++	11956	51-	13835	50-								
	141130	144	17	09	173	16	08	1518	05	04-	3088	00	02-	5720	13-	16-	7380	25-	29-	9107	40-	46-	12037	59-	13881	53-	16511	51-	18843	48-	21058	49-		
CAMBORNE 03808	132330	088	15	13	210	14	12	1560	06	01	3135	00	08-	5760	14-	26-	7410	26-	30-	9120	43-	++	12033	60-	13851	55-	16440	54-	18734	53-	20906	52-		
	141130	088	16	13	211	14	12	1557	06	04	3148	05	08-	5803	13-	32-	7473	23-	46-	9509	39-	++	12161	59-	13963	57-	16547	54-						
VALENTIA 03953	132330	014	14	12	222	13	11	1567	10	03-	3158	02	01	5800	15-	18-	7470	24-	26-	9500	41-	++	12110	65-	13920	55-	16510	55-	18790	55-				
	141130	014	14	13	227	12	11	1576	08	07	3174	05	13-	5830	13-	34-	7490	26-	44-	9510	42-	++	12170	57-	13990	55-	16570	56-	18860	52-	21060	51-		
Ocean Weather Station 'I' 59°00'N 19°00'W	140001		12	09	128	10	08	1467	08	01-	3044	01-	07-	5670	13-	15-	7330	24-	28-	9360	41-	++	11990	56-	13850	52-	16490	50-	18820	49-				
	141200		11	10	151	10	09	1490	06	01	3066	00	08-	5710	13-	++	7360	27-	++	9370	43-	++	12020	49-	13920	46-								
Ocean Weather Station 'J' 52°30'N 20°00'W	140001		14	10	258	13	10	1630	12	18-	3231	05	24-	5910	11-	37-	7580	22-	46-	9630	37-	58-	12300	58-	14090	58-	16650	57-	18940	54-	21090	51-	24430	49-
	141200		14	10	264	11	09	1610	12	02	3233	05	12-	5910	10-	33-	7590	22-	44-	9640	36-	52-	12330	54-	14160	57-	16720	56-	19010	53-	21180	50-	24550	46-

STATION	ww N _h C _L hC _M C _H	PRESSURE																												TROPOPAUSE									
		MSL	Surf.	0°C level																												mb	m	°C					
LERWICK 03005	58 872++	008	998	768	991	++	08	855	06	04	620	++	13-	541	++	21-	473	++	35-	437	28-	37-	396	++	48-	379	37-	49-	290	51-	250	46-	290	09330	51-				
	80 784++	004	995	794	968	12	10	823	02	00	627	11-	14-	592	12-	18-	518	++	28-	471	24-	31-	429	30-	37-	380	37-	48-	266	51-	250	46-	266	09850	51-				
STORNOWAY 03026	80 784++	014	012	750	980	09	05	900	++	03	829	01	01-	813	03	15-	793	03	23-	675	++	39-	604	11-	++	554	13-	402	30-	356	34-	254	53-	239	10700	54-			
	25 7253+	013	012	815	997	11	07	845	01	00	824	01	04-	805	++	07-	745	06-	09-	730	05-	10-	697	06-	17-	619	12-	23-	593	13-	29-	505	258	10120	51-				
SHANWELL 03170	02 45631	014	014	747	005	13	10	897	08	05	885	09	05	812	++	01	787	++	03-	767	02	04-	724	++	05-	661	07-	09-	650	05-	14-	632	++	233	10910	57-			
	81 784++	012	011	819	002	13	06	930	07	04	885	++	03	733	06-	09-	716	04-	15-	696	++	13-	665	++	13-	653	++	23-	632	++	24-	624	++	259	10160	51-			
ALDERGROVE 03917	01 556++	020	011	685	952	08	06	898	++	02	878	04	02-	859	++	03	846	05	03	795	++	01-	769	03	09	757	04	13-	750	++	19-	705	++	28-	584	++	205	11830	61-
	02 6557+	018	009	735	000	13	08	877	++	02	856	02	01	827	05	06-	811	++	10-	772	++	15-	760	++	08-	719	++	02-	669	++	09-	650	++	222	11300	57-			
AUGHTON 03322	02 40971	020	013	754	970	++	09	863	++	03	850	05	01	842	++	00	836	05	01	816	04	02	737	01-	02-	703	03-	07-	679	06-	09-	667	04-	223	11290	57-			
	02 884++	019	012	753	994	12	08	909	++	02	872	05	07-	849	++	25-	824	04	25-	652	06-	04-	627	07-	11-	497	15-	18-	439	21-	26-	310	220	11340	60-				
HEMSBY 03496	03 856++	018	017	762	978	13	09	896	07	06	857	++	02	818	++	01-	784	++	00	753	++	02-	690	04-	10-	657	++	26-	614	++	19-	591	++	250	10435	54-			
	02 7852+	017	015	721	008	15	13	998	14	08	950	++	07	869	04	00	850	04	03-	840	++	00	834	04	00	780	++	01	750	01	14-	730	++	18-	223	11250	59-		
CRAWLEY 03774	01 15500	021	003	766	958	++	07	830	++	02	820	++	00	746	01-	02-	734	++	03-	705	++	10-	694	++	09-	630	++	17-	624	05-	15-	568	++	233	10980	54-			
	60 7557+	021	003	706	997	15	07	871	04	02	852	06	03-	834	++	03-	818	++	02	792	++	01	680	++	04-	648	04-	07-	608	07-	10-	592	06-	217	11540	59-			
CAMBORNE 03808	02 00900	025	014	695	950	++	06-	850	05	01	838	++	06-	817	06	08-	805	++	11-	788	++	02-	729	++	05-	712	01	09-	672	++	07-	646	++	210	11720	61-			
	02 2842+	025	015	631	997	13	11	980	12	10	966	++	07	926	08	06	887	05	03	824	07	04	795	04	01	781	07	01	778	++	00	757	++	00	751	206	11970	60-	
VALENTIA 03953	02 884++	026	025	675	925	08	07	907	06	04	837	11	06-	763	05	04	650	02-	08-	572	07-	07-	543	08-	10-	494	15-	18-	480	14-	17-	333	197	12200	65-				
	58 864++	027	026	630	010	13	12	879	06	05	837	09	08	792	06	01	761	06	11-	721	06	12-	682	04	14-	442	19-	38-	300	42-	277	43-	250	173	13100	59-			
Ocean Weather Station 'I' 59°00'N 19°00'W	02 885++	015	015	712	919	05	03	883	06	04	859	08	00	810	++	10-	790	05	12-	762	++	16-	605	++	08-	669	++	10-	655	05-	10-	613	++	224	11300	58-			
	20 7551+	018	018	702	968	08	06	906	06	03	835	06	01	787	03	02-	769	04	01-	734	++	03-	702	00	08-	671	++	10-	648	03-	15-	506	03-	229	11100	53-			
Ocean Weather Station 'J' 52°30'N 20°00'W	01 65500	030	030	610	960	12	10	934	14	06-	910	14	11-	857	12	18-	810	12	18-	777	11	19-	720	06	23-	636	02	26-	500	11-	37-	468	13-	184	12600	62-			
	02 755++	031	031	610	988	11	08	938	09	08	870	13	03	747	08	08-	625	01	17-	533	06-	29-	461	15-	37-	285	40-	55-	250	46-	222	53-	202	12300	55-				

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	132330	T	190 05	+++ ++	230 14	250 14	250 15	270 17	250 12	260 17	260 21	250 27	280 36	290 27	300 25	300 15					
	140530	P	270 24	+++ ++	290 25	280 17	280 09	280 13	280 06	100 02	280 07	290 13	310 30	300 31	310 26	310 22	290 08	310 06	230 05		
	141130	P	010 10	+++ ++	350 15	350 16	360 15	340 15	340 15	020 16	010 22	340 38	320 31	310 31	310 28	310 16	300 10	310 11			
	141730	P	360 17	+++ ++	010 26	010 26	360 22	360 21	340 21	320 26	310 27	310 34	310 31	310 27	320 23						
STORNOWAY 03026	132332	T	290 15	+++ ++	200 25	260 26	280 30	280 33	280 43	290 54	300 73	310 97	310 97	310 58	310 36	310 18	300 11	320 05			
	140530	P	260 18	+++ ++	290 27	290 28	280 29	300 36	300 51	300 62	300 88	310 102	310 103	310 60	310 41	310 27	320 14	310 08			
	141130	T	280 22	+++ ++	310 25	310 24	310 28	310 29	310 39	310 67	310 69	310 69	310 73	310 52	310 46	310 13	280 13				
	141730	P	310 22	+++ ++	330 20	320 22	320 22	320 22	320 24	310 32	300 68	300 69	300 60	320 52	310 42	300 25	310 18				
SHANWELL 03170	132330	T	280 11	+++ ++	290 23	290 20	300 17	270 16	280 32	300 42	310 45	320 78	330 90	320 52	310 27	310 13	310 12				
	140530	P	240 08	+++ ++	270 28	290 32	290 29	290 28	290 43	290 48	300 67	310 88	310 95	320 46	310 36	320 21	300 10	300 05			
	141130	T	270 14	+++ ++	280 21	290 21	310 23	310 40	300 43	300 69	300 79	290 85	290 85	310 53	300 36	280 13					
	141730	P	300 15	+++ ++	310 23	310 26	310 29	320 24	310 41	300 51	310 57	310 54	310 55	300 47	310 42	310 23	300 17	310 06	050 09		
ALDERGROVE 03917	132330	T	230 09	+++ ++	290 22	300 25	290 24	310 27	300 27	310 42	330 63	330 78	330 82	330 66	320 34	300 10	300 09				
	140530	P	270 12	+++ ++	290 26	300 31	300 33	300 36	310 33	310 52	310 61	310 61	320 61	320 66	320 45	320 30					
	141130	T	280 18	+++ ++	300 33	300 34	300 39	310 58	310 61	320 50	300 59	300 71	300 76	310 67	310 42	330 15	P 310 11	240 07	360 06	120 08	
	141730	P	270 15	+++ ++	290 31	300 43	300 50	300 51	310 53	310 67	310 70	300 70	290 75	310 72							
AUGHTON 03322	132330	T	270 05	+++ ++	300 21	300 22	310 24	320 27	320 28	320 28	330 45	340 77	350 91	350 75	320 33	300 19	270 10				
	140530	P	260 06	+++ ++	280 23	290 26	300 31	300 29	310 29	300 39	320 59	320 69	320 73	320 62	330 36	320 19	330 12				
	141130	T	270 15	+++ ++	290 31	290 33	300 32	300 36	300 41	300 45	300 56	300 66	300 72	310 67	310 34	290 16					
	141730	P	270 13	+++ ++	290 32	300 32	310 39	310 52	310 48	310 53	310 64	300 72	290 76	290 63	310 51	310 23	300 12	330 07			
HEMSBY 03496	132330	T	290 08	+++ ++	300 15	270 10	260 12	240 13	280 16	310 17	330 32	330 36	340 49	320 31	300 26	280 16					
	140530	P	240 08	+++ ++	310 21	290 24	300 19	300 26	310 30	310 31	320 38	340 67	340 76	340 45	310 29	300 16					
	141130	T	270 14	+++ ++	270 17	270 20	270 27	300 24	290 34	290 38	310 54	310 65	310 64	310 49	310 29	290 22					
	141730	P	250 16	+++ ++	290 26	290 24	290 25	290 30	300 40	300 47	300 51	290 61	290 67	290 73							
CRAWLEY 03774	132330	T	330 02	+++ ++	340 19	310 13	280 10	310 16	320 24	320 26	330 39	350 58	350 54	320 38							
	140530	P	280 05	+++ ++	290 15	310 19	320 21	320 24	320 24	330 33	330 40	340 60	350 76	350 53	320 32	310 19	310 11				
	141110	P	280 07	+++ ++	270 16	280 22	280 24	280 28	300 33	310 42	320 45	320 43	320 51	330 50	320 34	300 18	320 05	330 03	130 04	090 18	
	141730	P	270 10	+++ ++	290 25	310 24	310 26	320 42	310 47	310 46	320 45	300 47	300 55	300 55	310 48	300 29					
CAMBORNE 03808	132330	T	290 08	+++ ++	320 20	330 20	320 27	320 33	330 30	330 39	340 49	340 66	350 68	350 63	330 33	320 15	270 06				
	140530	P	280 11	+++ ++	310 22	300 24	310 27	330 31	320 31	320 28	330 37	340 45	340 45	340 49	330 36	310 21	360 10				
	141130	T	290 12	+++ ++	310 21	310 29	310 31	330 30	330 31	320 35	310 40	310 42	310 43	320 49	330 32	330 26					
	141730	P	290 16	+++ ++	310 24	320 28	320 32	320 36	320 44	320 45	310 48	320 39	310 47	310 53	310 43	310 31					
VALENTIA 03953	132330	T	310 08	310 11	300 20	300 28	310 28	310 34	320 34	320 48	330 46	330 48	330 50	330 57	330 34	310 18	320 14				
	141130	P	320 10	320 14	320 21	320 31	310 35	320 43	310 44	310 49	320 46	300 49	310 44	310 49	310 41	320 28	340 08	000 00			
Ocean Weather Station 'I' 59°00'N 19°00'W	140001	T	280 30	+++ ++	290 29	290 36	300 40	300 46	280 55	290 63	290 64	290 65	290 69	290 69	290 40	290 15	290 11				
	140600	P	270 20	+++ ++	290 29	290 36	290 48	290 58	290 51	290 54	290 72	290 69	290 90	290 100	290 66	+++ ++					
	141200	T	280 13	+++ ++	290 26	290 29	290 33	290 40	300 51	300 63	290 61	300 74	310 85	300 75	290 55						
	141800	P	315 10	+++ ++	310 15	310 20	310 28	310 34	310 45	310 45	290 55	290 65	290 77	300 75	300 69	300 27	300 19	300 09			
Ocean Weather Station 'J' 52°30'N 20°00'W	140001	T	290 16	290 18	300 23	320 24	320 28	310 25	310 27	310 35	290 37	280 35	290 33	290 33	300 32	300 13					
	140600	P	280 18	+++ ++	290 24	280 20	270 19	270 26	280 37	280 44	280 48	280 43	280 40	280 40	280 22						
	141200	T	270 12	270 16	260 29	260 21	260 23	270 20	280 33	280 39	280 43	280 45	290 37	290 34	300 29	300 28	000 00	000 00			
	141800	P	190 08	+++ ++	+++ ++	+++ ++	280 25	290 26	280 31	280 38	280 39	300 46	310 44	310 50	320 33	320 18					
LARKHILL 03743	140625	P	000 00	+++ ++	290 23	290 21	290 21	310 25	320 31	320 38	330 44	340 60	340 69	330 55	330 45	320 23	320 11				

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGgg	POSITION	PRESSURE		SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf. 0°C level	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
141245	58.2°N 26.7°W	021	014 683	061 11 11	174 13 13	161 12 12	1539 11 11	2042 07 05	05 05	3127 01 01	02 06	4353 05 33	09 13	5758 15 27	
Cloud:— 7/8 Sc. 200 to 6000 ft. 2/8 Sc. 200 to 7000 ft. 3/8 Ac. at 10000 ft. 3/8 Ci. at 25000 ft.															
Inversion 1000mb to 950mb 11°C to 12°C Isothermal 1014 mb. to 1000 mb 11°C															
Levels:—															
YYGGgg	POSITION	PRESSURE		SURFACE	1000mb	950mb	900mb	850mb	800mb	750mb	700mb	650mb	600mb	550mb	500mb
		MSL	Surf. 0°C level	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
141354	60.8°N 20.8°W	018	010 645	061 10 07	143 07 07	1012 05 02	1475 04 02	1969 03 01	02 02	3042 01 05	01 36	4267 05 42	11 48	5669 15 48	
Cloud:— 3/8 St. 1000 to 1300 ft. 5/8 Sc. 1300 to 3500 ft. 5/8 Sc. at 7000 ft. 1/8 Ac. at 10000 ft. 3/8 Ci. at 25000 ft.															
Inversion 700mb to 650mb -0½°C to 0½°C Isothermal 1010mb to 1000mb 10°C															
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

Page 5

STATION		MAX. WIND
LERWICK 03005	074mb 320 06 24400m 300 04	
STORNOWAY 03026	175mb 300 44 040mb 320 05 22100m 320 03 11530/1 11990/1 13570/1 537mb 310 53 057 310 10 19500m 310 18 06500/0 12000/1	320 103 09940m 310 108 09900m 310 75 10140m 290 76 08160m
SHANWELL 03170	222mb 330 87 22680m 340 04 03910/0 06350/0 07630/0 12140/1 091mb 310 15 03730/0	330 99 11030m 320 98 10030m 290 88 08350m 310 61 09660m
ALDERGROVE 03917	562mb 310 36 170mb 330 44 17800m 320 15 04900/0 12850/1 125mb 310 27 15000m 310 48 09640/5 11320/4	340 92 11130m 310 68 11450m 300 78 10280m 300 78 11050m
AUGHTON 03322	168mb 320 40 084mb 340 18 053mb 280 07 05670/0 173mb 310 50 076 280 13 21900m 320 06	350 92 10900m 320 77 10950m 300 75 11340m 290 78 11000m
HEMSBY 03496	078mb 280 10 08570/0 10380/0 11510/1 073mb 300 07 13500m 300 55	340 82 10640m 320 66 10180m 290 75 11820m
CRAWLEY 03774	153mb 310 27 19800m 300 05 11550/1 12050/1 16500m 310 23	360 66 09610m 350 80 10840m 300 61 10910m
CAMBORNE 03808	181mb 340 44 054 330 04 19800m 320 07 16900/1 17400m 320 12 13950/1	350 78 11660m
VALENTIA 03953		
Ocean Weather Station 'I' 59°00'N 19°00'W	169mb 290 48 122mb 290 30 12300m 290 78 15600m 290 37 173mb 300 64 124mb 270 45 14100m 300 52 23100m 300 08	290 81 11470m 290 108 12070m 310 93 10890m 300 78 11790m
Ocean Weather Station 'J' 52°30'N 20°00'W	359mb 290 42 165mb 300 36 114mb 300 14 073mb 300 09 338mb 280 55 114mb 280 14 360mb 280 35 086mb 300 22 041mb 000 00 832mb 280 29 096mb 320 18	
LARKHILL 03743		340 76 10800m

NOTES ON THE AEROLOGICAL SITUATION

The flow pattern from the Great Lakes to Russia is smoother and better defined than it has been for some time. The various troughs which were feeding into the main one over western Europe have now largely amalgamated to form a single broad feature. The other major trough is now slow moving near the eastern seaboard of Canada while over the Atlantic a broad ridge has developed.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height Temp.	Extreme Temps. Max. Min.	Wind* V _R V _S
mb.	gpm. °C	°C °C	° Kt. Kt.
40	22435 -47.1	-44 -56	201 3 7
60	19760 -48.1	-41 -54	213 4 9
100	16400 -48.3	-42 -57	235 9 14
150	13730 -48.4	-42 -63	242 13 24
200	11845 -49.7	-40 -64	243 16 34
300	9190 -44.7	-34 -53	232 17 41
400	7205 -30.0	-19 -39	230 15 33
500	5580 -18.4	-10 -27	229 13 27
700	2985 -2.7	4 -10	230 10 20
850	1425 4.8	16 -2	229 7 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height Temp.	Extreme Temps. Max. Min.	Wind* V _R V _S
mb.	gpm. °C	°C °C	° Kt. Kt.
40	22425 -49.2	-45 -56	158 2 6
60	19780 -50.8	-43 -57	224 3 9
100	16470 -52.4	-43 -62	267 13 18
150	13845 -52.3	-42 -69	273 23 31
200	11980 -52.4	-40 -63	274 29 43
300	9325 -42.4	-34 -52	271 27 45
400	7320 -27.2	-18 -37	270 23 36
500	5680 -15.7	-8 -24	267 20 30
700	3060 0.1	7 -6	262 14 22
850	1480 7.7	17 2	260 10 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

Press. Level	Average Height Temp.	Extreme Temps. Max. Min.	Wind* V _R V _S
mb.	gpm. °C	°C °C	° Kt. Kt.
40	(22330) (-55.6)	... ...	100 14 15
60	19780 -60.8	-54 -68	110 7 11
100	16655 -66.8	-58 -74	250 21 24
150	14175 -60.2	-53 -70	255 41 45
200	12345 -50.9	-44 -59	265 44 49
300	9620 -35.2	-29 -44	275 31 37
400	7555 -20.4	-16 -27	285 23 29
500	5865 -8.6	-4 -14	290 19 24
700	3170 8.9	13 1	310 15 19
850	1540 18.4	27 12	310 7 11

Tropopause	Average Press. Temp.	Max. Press. Temp.	Min. Press. Temp.	Max. Temp.	Min. Temp.
Upper	102 -68.1	...	72	...	-75
Lower	(195) (-59.1)	...	...	...	...

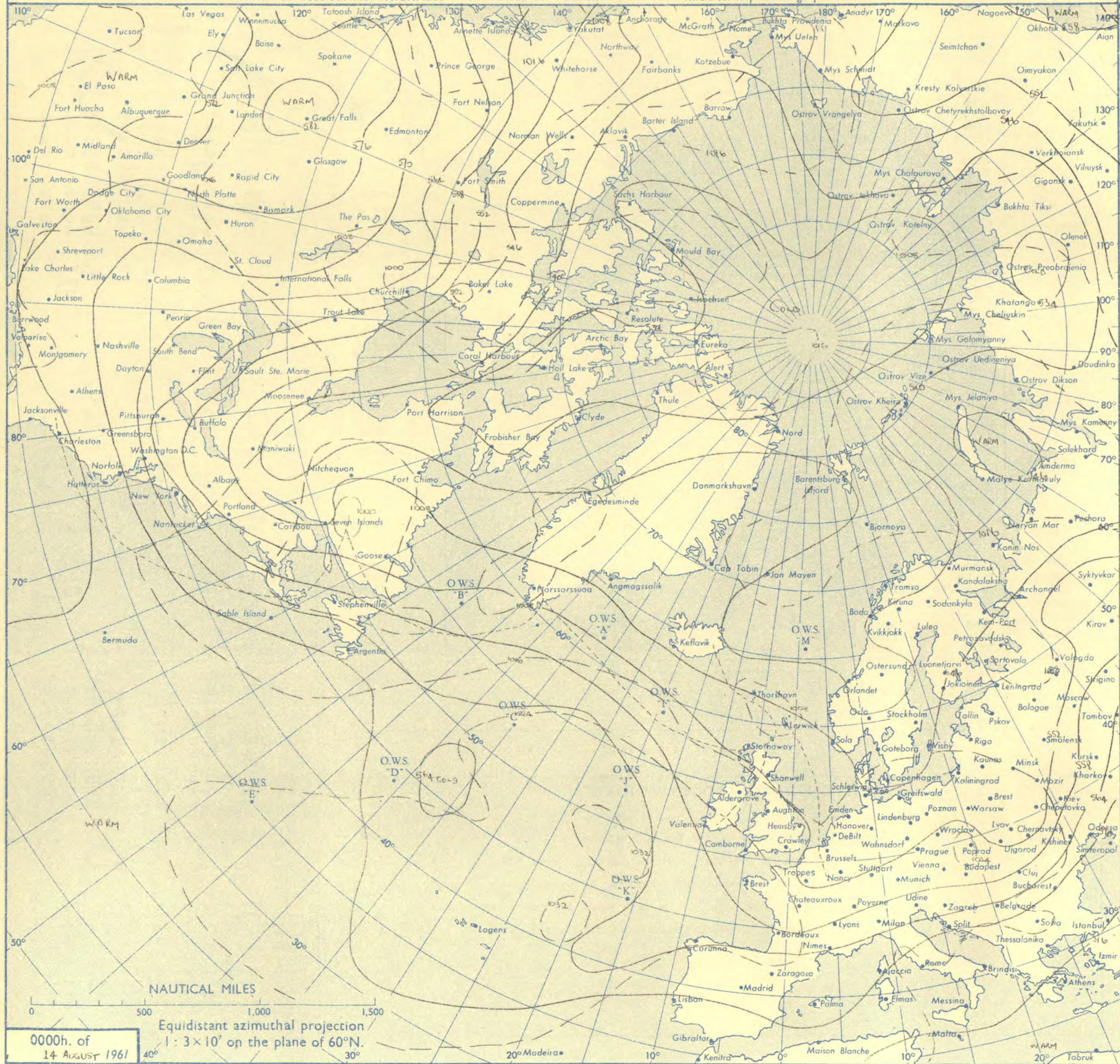
* V_R = Vector average wind. V_S = average wind speed.
Average winds are based on observations at Lerwick,
Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at
03, 15h.

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

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

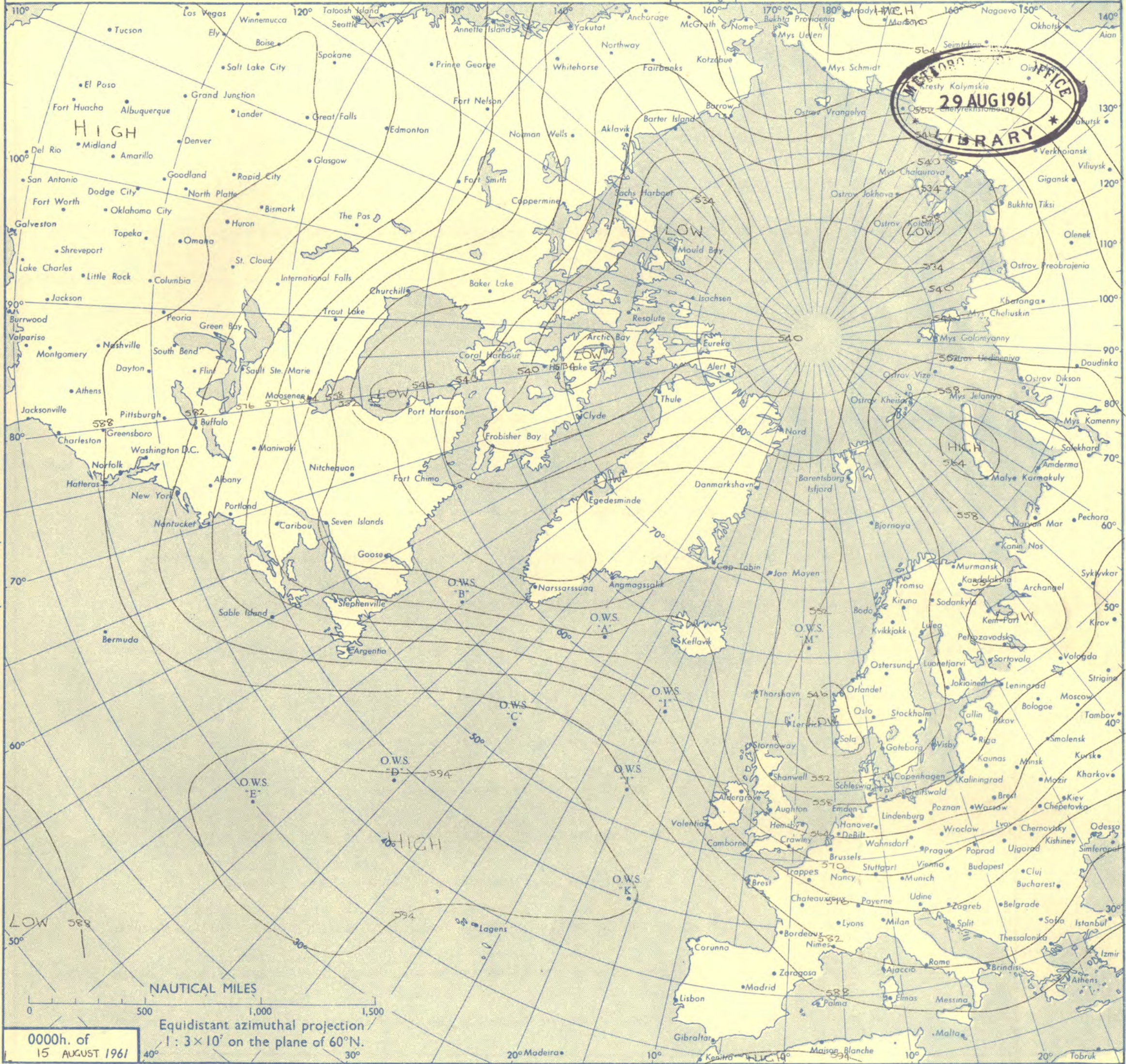
ISOPLETHS OF 1000-500 mb. THICKNESS WITH SEA LEVEL ANALYSIS

Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



METEO. OFFICE
29 AUG 1961
LIBRARY

NAUTICAL MILES

0000h. of
15 AUGUST 1961

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

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C				
LERWICK 03005	142330	082	10	08	084	++	++	1411	00	03	2948	07	17	5474	27	39	7049	39	48	8971	49	++	11691	43	13621	45	16321	47												
	151130	082	13	09	115	12	09	1446	01	03	2985	06	15	5533	24	41	7127	36	49	9067	48	++	11755	45	13676	46														
STORNOWAY 03026	142330	013	12	10	133	11	09	1465	02	01	3010	06	13	5563	22	37	7167	34	47	9130	46	++	11818	45	13740	46	16426	49	18769	48	20980	49								
	151130	013	13	09	174	11	08	1502	00	02	3051	04	22	5629	19	36	7259	30	42	9249	45	++	11905	50	13792	49	16463	49	18807	49	21037	46								
SHANWELL 03170	142330	005	12	08	109	12	08	1448	03	02	2995	06	11	5545	22	38	7149	34	49	9109	45	++	11805	46	13725	45	16395	49	18734	50	20938	49								
	151130	005	17	05	150	14	04	1487	01	00	3035	05	21	5584	24	39	7179	34	48	9144	46	++	11831	46	13747	47	16426	48	18762	49	20973	50	24333	49						
ALDERGROVE 03917	150025	077	11	10	153	11	09	1491	04	03	3049	03	04	5651	16	39	7298	27	45	9310	41	++	11962	53	13841	49														
	151130	077	14	09	181	13	09	1517	02	01	3074	01	14	5688	16	++	7329	28	46	9333	43	++	11984	53	13848	52	16476	53	18767	52	20938	52	24259	51						
AUGHTON 03322	142330	056	13	11	142	12	10	1485	04	03	3051	02	03	5653	15	38	7294	28	50	9290	45	++	11938	49	13836	47	16496	51												
	151130	056	15	10	163	12	07	1499	02	02	3049	03	28	5632	19	50	7256	30	++	9237	45	++	11895	49	13795	48	16461	50	18802	48	21023	47	24416	48						
HEMSBY 03496	142330	012	14	09	125	14	10	1468	04	01	3026	01	06	5631	17	23	7272	29	38	9262	46	++	11917	47	13824	48	16479	50	18813	50										
	151130	012	14	11	130	11	08	1459	01	00	3000	08	14	5546	22	40	7149	34	++	9100	47	++	11789	45	13709	46	16378	50	18705	49										
CRAWLEY 03774	142330	144	13	12	165	13	12	1513	06	01	3092	00	08	5713	15	34	7353	29	45	9338	46	++	11987	48	13865	53	16488	52												
	151130	144	16	10	157	15	09	1504	03	01	3059	03	20	5648	17	40	7280	30	++	9260	47	++	11915	48	13815	48	16474	50												
CAMBORNE 03808	142330	088	15	14	207	14	12	1552	05	03	3133	02	17	5772	13	29	7432	24	42	9459	41	++	12079	59	13915	56	16499	56	18786	52										
	151130	088	15	13	199	13	11	1544	05	04	3117	01	11	5756	13	23	7414	26	38	9427	42	++	12064	58	13909	51	16528	54												
VALENTIA 03953	142330	014	14	11	227	12	12	1577	08	06	3169	03	10	5820	12	23	7480	25	36	9510	41	++	12150	59	13990	53	16590	55	18880	55										
	151130	014	18	14	223	12	11	1571	07	05	3156	01	08	5800	12	23	7470	23	33	9520	38	40	12190	57	14000	57	16570	56												
Ocean Weather Station 'I' 59°00'N 19°00'W	150000		12	11	187	11	09	1537	08	06	3115	01	05	5740	15	20	7390	27	38	9400	42	++	12040	59	13880	53	16280	54												
	151600		13	13	133	12	11	1490	11	10	3087	03	05	5740	12	32	7410	21	26	9470	35	39	12180	54	13980	61	16540	56	18820	54	20980	54								
Ocean Weather Station 'J' 52°30'N 20°00'W	150000		14	14	258	12	12	1620	12	01	3229	04	12	5890	10	25	7570	20	35	9650	34	39	12360	53	14190	58	16750	56	19030	52	21220	50	24570	47						
	151200		14	13	259	16	16	1650	13	13	3236	05	01	5920	07	22	7660	17	30	9750	33	45	12480	53	14290	60	16850	54	19160	49	21380	45								

STATION	ww N _h C _L hC _M C _H	PRESSURE																											TROPOPAUSE		
		MSL	Surf.	0°C level																									mb	m	°C
LERWICK 03005	02 35500	010	000	858 819	852 00 02- 839 01 04- 832 ++ 07- 811 ++ 07- 716 06- 15- 474 ++ 41- 392 40- 48- 323 48- 295 50- 250 43- 238																								295	09060	50-
	02 784++	014	004	839	999 11 07 939 06 04 885 ++ 01- 847 01 03- 804 03- 05- 796 01- 03- 745 ++ 12- 725 ++ 12- 673 07- 15- 546 01- 04- 751 05- 34- 271 09- 00 49- ++ 37- 406 35- 49- 351 44- 292 49- 250 48- 232 45- 113 47-																								282	09250	49-
STORNOWAY 03026	25 48500	016	015	800	995 ++ 07 971 ++ 07 960 ++ 05 940 ++ 04 906 ++ 01- 870 ++ 00 851 02 01- 829 ++ 02- 771 01- 04- 751 05- 34- 271 09- 00 49- 07- 713 04- 09- 705 ++ 12- 651 11- 15- 643 10- 18- 640 ++ 23- 602 ++ 31- 574 ++ 33- 521 ++ 29- 514 21- 34- 490 ++ 39- 381 37- 50- 271 49- 250 48- 225 45- 095 49- 047 48-																								271	09100	49-
	25 685+1	021	019	848 767	000 11 08 961 ++ 06 894 ++ 00 840 01- 02- 823 ++ 07- 813 01 08- 762 00 16- 649 07- 26- 543 16- 33- 446 50- 080 48- 068 49- 063 46- 043 47- 23- 40- 400 30- 42- 388 30- 39- 380 ++ 39- 328 40- 47- 269 50- 250 50- 238 52- 191 48- 148 50- 112 47- 094																								238	10750	52-
SHANWELL 03170	02 24500	013	013	794	000 12 08 961 11 06 845 02 01 829 03 02 805 ++ 02- 770 02- 03- 749 ++ 06- 719 05- 07- 704 ++ 11- 648 ++ 15- 602 15- 17- 582 ++ 20- 567 16- 29- 482 23- 41- 401 34- 49- 336 43- 279 48- 261 48- 250 45- 244 44- 213 47- 150 45- 129 49- 100 49- 086 51- 078 48- 069 51- 040 49- 036 51-																								279	09600	48-
	02 51500	018	017	840 775	998 13 03 815 02- 03- 810 01- 02- 790 01 12- 715 04- 20- 635 11- 26- 600 14- 26- 460 28- 42- 384 35- 49- 318 44- 271 49- 250 49- 212 45- 100 48- 095 50- 086 51- 078 48- 072 51- 068 48- 030 49-																								271	09810	49-
ALDERGROVE 03917	21 854++	018	009	752	989 11 09 927 07 05 889 ++ 04 795 01 00 725 01- 02- 671 ++ 06- 628 ++ 11- 622 09- 13- 602 ++ 26- 593 09- 28- 570 ++ 35- 541 11- 36- 480 18- 40- 352 34- 49- 250 50- 234 53- 213 56- 170 49- 128 47-																								213	11530	56-
	02 785++	022	012	740	988 11 08 952 ++ 05 882 04 03 812 00 01- 794 03 06- 722 01- 11- 656 ++ 27- 627 05- 34- 513 14- ++ 368 ++ 49- 293 45- 263 47- 250 49- 215 55- 174 51- 117 51- 084 55- 069 51- 061 54- 036 50- 030 51-																								215	11510	55-
AUGHTON 03322	61 8042+	017	010	745	843 04 03 702 02- 03- 624 07- 08- 592 ++ 14- 555 13- 15- 529 14- 31- 502 15- 38- 403 28- 50- 326 40- ++ 288 47- 250 52- 247 52- 149 47- 095 52- 085 50-																								247	10580	52-
	02 585++	020	013	784	006 13 08 945 ++ 06 902 05 03 776 ++ 06- 755 02- 14- 744 01- 18- 686 ++ 30- 486 20- 50- 337 40- ++ 269 50- 250 51- 115 48- 106 51- 039 45- 030 48-																								246	10570	51-
HEMSBY 03496	02 8097+	015	013	797 718	929 ++ 07 855 04 00 797 00 02- 744 01- 02- 733 01 16- 716 00 07- 678 ++ 05- 636 05- 10- 608 ++ 10- 587 ++ 15- 510 ++ 19- 507 19- 21- 495 16- 25- 475 18- 34- 375 ++ 42- 361 ++ 47- 335 39- 50- 262 52- 250 52- 169 46- 101 50- 060 49-																								262	10150	52-
	80 824++	016	014	814	997 11 08 857 01 00 831 01 00 760 ++ 04- 700 ++ 14- 640 12- 18- 619 12- 23- 550 18- 34- 434 29- 46- 414 32- 48- 359 41- 294 48- 250 48- 171 44- 161 47- 146 46- 136 50- 058 50-																								294	09220	48-
CRAWLEY 03774	02 30930	020	003	698	967 12 10 942 ++ 07 868 05 02 858 ++ 00 831 ++ 04 814 06 04 749 02 01- 739 ++ 01- 728 ++ 06- 722 02 05- 718 ++ 04- 701 ++ 09- 685 ++ 06- 606 08- 10- 567 09- 11- 559 08- 15- 545 ++ 24- 506 ++ 33- 362 35- 50- 360 37- ++ 290 48- 260 51- 250 52- 236 52- 207 48- 154 53- 099 52-																								260	10280	51-
	03 6256+	019	001	781	938 09 03 805 01 01- 753 ++ 06- 721 ++ 15- 697 ++ 21- 662 05- 24- 607 10- 24- 585 10- 29- 478 19- 41- 359 36- ++ 295 47- 269 51- 250 51- 159 47- 105 51- 096 49-																								269	09980	51-
CAMBORNE 03808	02 763++	025	014	678	006 ++ 12 838 ++ 02 833 03 03- 825 08 11- 816 ++ 15- 783 ++ 07- 770 ++ 11- 757 ++ 09- 736 ++ 22- 696 ++ 17- 670 ++ 06- 653 ++ 21- 645 01- 21- 620 ++ 21- 607 05- 12- 573 ++ 16- 567 07- 20- 528 ++ 19- 520 ++ 24- 512 12- 25- 488 ++ 34- 436 21- 38- 396 24- 42- 350 32- 49- 250 52- 226 58- 199 59- 172 53- 148 56- 100 56- 060 51-																								226	11310	58-
	02 855++	024	013	751 671	999 13 11 939 09 08 795 03 02 751 00 01- 724 02 04- 698 01 11- 648 ++ 14- 582 ++ 13- 555 08- 17- 449 19- 32- 331 37- 49- 250 51- 195 59- 177 53- 143 53- 100 54-																								195	12210	59-
VALENTIA 03953	02 864++	027	026	649	914 07 05 883 08 06 802 08 05 712 02 04- 687 04 14- 649 00 17- 499 12- 36- 448 19- 31- 256 49- 250 51- 222 58- 169 53-																								222	12200	59-
	50 863++	027	025	675	900 07 06 880 09 08 842 07 05 783 06 01- 732 03 02- 702 01 12- 282 41- 250 48- 232 53- 171 61- 155 56-																								171	13200	61-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 756++	023	023	693	960 09 07 942 10 08 836 07 05 801 05 03 743 ++ 04- 722 ++ 02- 706 01 04- 675 ++ 09- 668 02- 09- 654 01- 09- 648 ++ 27- 630 03- 11- 598 06- 10- 546 09- 19- 470 19- 23- 410 ++ 36- 315 39- 50- 250 51- 202 60- 188 55- 154 53- 115 55- 080 52-																								202	12000	60-
	61 872++	016	016	668	004 12 11 958 09 08 918 11 10 855 11 10 760 05 03 734 ++ 07- 725 04 07- 672 ++ 03- 624 ++ 06- 621 04- 07- 597 04- 18- 534 08- 41- 446 18- 27- 420 20- 26- 370 25- 27- 315 ++ 35- 310 34- 37- 302 34- 38- 274 40- 46- 250 45- 244 46- 216 50- 174 60- 160 63- 144 59- 132 59- 116 56- 100 56- 091 55- 077 56- 068 54- 038 54-																								160	13600	63-
Ocean Weather Station 'J' 52°30'N 20°00'W	9+0++	030	030	650	010 12 12 910 12 11 850 12 01 784 10 12- 767 09 21- 650 00 13- 600 02- 19- 358 24- 40- 269 40- 54- 250 44- 225 49- 171 57- 126 58- 058 51- 024 46-																								171	13400	57-
	76400	030	030	610	012 14 14 965 17 17 936 15 15 835 13 13 720 08 02 700 05 01- 643 01 08- 588 01- 13- 500 07 - 22- 458 09- 24- 386 19- 33 336 25- 38- 260 04- 51- 250 42- 218 50- 172 59- 150 06- 098 54- 040 43-																								172	13400	59-

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	142330	T	350 16	+++ ++	360 27	360 30	360 30	360 38	360 24	340 21	310 19	300 27	320 28	320 27	320 26	320 16					
	150530	P	360 16	+++ ++	360 29	360 29	360 30	360 31	360 33	360 28	360 24	350 37	340 37	340 33	340 30	320 26					
	151130	T	350 22	+++ ++	360 30	360 27	360 25	010 25	360 21	360 17	360 15	350 65	350 52	340 47	340 32						
	151737	P	340 14	+++ ++	340 17	330 19	360 19	360 22	350 24	350 30	340 46	340 62	340 60	330 50	330 40	330 27	340 18	330 10			
STORNOWAY 03026	142330	T	350 14	+++ ++	360 16	350 19	340 20	340 23	330 35	330 45	330 61	320 87	330 82	320 57	320 43	320 26	320 17	330 11			
	150530	P	350 10	+++ ++	360 20	340 20	340 22	340 26	340 32	340 41	330 65	330 83	340 76	340 58	330 49	330 29	330 19				
	151130	T	320 07	+++ ++	320 13	330 14	340 17	340 26	340 33	340 51	340 72	330 95	330 125	330 78	330 45	340 24	350 13	330 08			
	151735	P	290 09	+++ ++	300 14	290 17	300 18	310 19	340 24	330 48	330 60	330 85	330 135	330 123	330 64	330 40	330 21	320 12			
SHANWELL 03170	142330	T	270 10	+++ ++	330 24	340 26	340 22	340 18	340 25	330 33	320 46	320 71	320 57	320 49	310 39	310 19	310 15	290 06			
	150530	P	290 07	+++ ++	340 24	350 26	340 19	330 23	340 36	340 47	340 59	340 71	330 69	330 44	320 47	320 25	310 20	320 07			
	151130	T	360 09	+++ ++	340 18	320 19	330 21	340 29	340 43	340 53	340 82	340 101	340 95	340 63	340 41	350 22	330 22				
	151730	P	340 15	+++ ++	330 15	310 14	330 17	340 26	340 33	340 43	340 73	330 84	340 119	340 83	340 50	330 30	320 12				
ALDERGROVE 03917	142330	P	270 15	+++ ++	310 25	320 30	310 36	310 46	310 62	320 72	320 82	310 91	320 109	320 77	320 60	320 51					
	150530	P	000 00	+++ ++	340 25	340 24	340 27	340 33	330 45	320 55	330 71	320 84	330 91	330 71	320 53	330 36	330 20				
	151130	T	290 08	+++ ++	320 14	320 15	320 21	330 33	330 41	330 57	330 71	340 85	350 134	350 117	330 52	330 31	350 16	320 13	040 09		
	151730	P	310 06	+++ ++	320 16	330 19	330 23	330 35	330 44	330 53	330 67	330 83	340 124	340 144	340 72	340 45					
AUGHTON 03322	142330	T	270 15	+++ ++	300 30	300 33	300 38	300 45	300 51	300 70	310 75	310 76	310 82	310 66	300 44						
	150530	P	290 12	+++ ++	330 27	330 25	310 30	330 36	320 43	320 52	310 77	310 79	310 76	320 59	310 45	310 27	310 18	320 04			
	151130	T	290 11	+++ ++	320 17	330 20	340 23	340 26	330 37	330 50	330 65	340 79	340 91	340 63	330 42	320 26	320 12	330 10			
	151730	P	300 16	+++ ++	310 21	330 19	330 21	330 29	330 37	330 57	340 76	340 89	340 131	350 94	340 51	330 28	320 20	340 09			
HEMSBY 03496	142330	T	270 13	+++ ++	300 31	300 26	290 27	300 45	300 51	290 57	290 60	290 60	290 60	290 52	300 36	290 20	280 10				
	150530	P	280 12	+++ ++	310 25	310 27	310 30	300 43	300 44	300 48	300 79	300 78	300 67	300 47	300 36	300 24					
	151130	T	350 12	+++ ++	320 27	320 28	310 24	320 28	320 33	320 47	310 54	300 66	300 63	310 46	310 34	300 21	330 10				
	151730	P	340 18	+++ ++	330 29	320 36	310 36	320 35	330 46	320 58	330 74	340 100	330 71	330 50	330 41	320 27					
CRAWLEY 03774	142330	T	270 10	+++ ++	300 24	310 29	310 32	290 33	300 43	310 49	300 48	300 55	300 69	300 49	300 45						
	150530	P	270 12	+++ ++	300 30	300 32	290 29	290 34	300 52	300 66	310 71	310 82	300 84	300 52	300 49	310 39					
	151130	T	300 15	+++ ++	330 24	310 24	300 29	300 29	300 38	310 56	310 62	310 53	310 53	310 53	310 34						
	151735	P	300 06	+++ ++	330 13	330 15	350 17	330 26	330 37	330 55	330 72	340 89	350 94	330 60	330 53	330 31	330 18	350 07			
CAMBORNE 03808	142330	T	280 11	+++ ++	300 23	310 25	310 40	310 42	310 45	320 50	320 57	340 68	320 63	320 58							
	150530	P	310 13	+++ ++	320 27	330 31	320 43	310 50	320 44	310 42	300 41	300 50	300 51	310 49	310 56	320 37	320 11	330 10			
	151130	T	290 14	+++ ++	310 25	320 24	320 28	320 40	320 45	330 44	330 46	340 66	350 68	350 70	330 48						
	151730	P	320 10	+++ ++	330 20	330 25	330 35	330 37	330 38	330 43	330 50	340 78	350 102	360 111	340 77						
VALENTIA 03953	142330	T	300 10		300 13	320 14	330 34	320 37	310 48	310 52	310 41	310 45	300 53	320 58	320 61	320 50	320 28	310 26			
	151130	T	330 11		330 13	330 20	330 35	320 34	330 37	330 38	330 47	330 61	340 81	350 99	340 81	340 71					
Ocean Weather Station 'I' 59°00'N 19°00'W	150000	T	210 08	+++ ++	360 14	310 24	300 30	310 30	310 31	310 42	310 54	310 81	310 112	310 117	310 59	310 30					
	150600	P	225 10	+++ ++	250 19	260 22	280 23	290 23	300 35	300 38	310 52	330 82	300 103	310 123	320 138	320 79					
	151600	T	250 25	+++ ++	280 37	290 38	290 40	280 40	280 42	280 52	300 83	300 102	300 106	300 112	300 93	290 39	290 20	290 15			
	151800	P	270 20	+++ ++	300 30	300 33	300 38	290 39	290 46	290 57	280 70	300 99	300 119	280 114	300 106	300 103	300 77				
Ocean Weather Station 'J' 52°30'N 20°00'W	150000	T	290 08		290 10	280 16	280 19	280 26	290 28	300 32	300 30	300 42	230 45	320 57	350 60	330 55	320 29				
	150600	P	260 06	+++ ++	290 20	310 26	310 30	320 30	310 35	310 30	310 35	320 44	320 47	330 53	330 48	350 39					
	151200	T	250 06		260 10	280 20	300 29	300 30	300 23	300 28	310 28	340 45	330 38	330 35	330 35	330 17					
	151800	P	260 14	+++ ++	270 20	270 23	270 24	280 32	280 32	300 34	310 34	340 44	340 40	320 32	310 30	300 20	310 04	000 00			
LARKHILL 03743	150630	P	270 12	+++ ++	310 25	310 28	310 31	310 31	310 50	310 58	310 66	300 74	300 79	310 57	310 47	310 33	310 13				
	151015	P	330 13	+++ ++	340 21	320 23	310 21	320 28	320 45	310 56	310 66	310 72	310 65	310 51	320 47	300 32	307 14				

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
151124	62.3°N 18.5°W	011 003 695	061 10 ++	088 08 ++	950 07 ++	1430 08 ++	1929 08 12-	05 05-	3014 01 11-	05- 15-	4228 09- 27-	12- 40-	5617 16- ++	
Cloud: — 8/8Ns. 300 to 600ft. 3/8Cu. HNG to 14000ft. 2/8Cs. at 28000ft. Inversion Levels: — 900mb to 800mb 10°C to 08°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
151249	64.6°N 11.0°W	013 006 761	061 10 05	109 05 03	972 02 01	1430 01 04-	1889 02 24-	01- 27-	2984 05- 25-	08- 34-	4179 12- 41-	15- 21-	5553 17- 22-	
Cloud: — 1/8Sc. 1800ft. to 1900ft. 6/8Sc. 3200ft. to 4300ft. 4/8Cs. at 19000ft. 2/8Ci. 27000 to 27000ft. Inversion Levels: — 850mb to 800mb 01°C. to 01.5°C. Isothermal Levels: —														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.											Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2			

STATION		MAX. WIND
LERWICK 03005	085mb 310 18 17100m 340 20 21900m 340 07	350 69 09180m 350 69 09180m 340 65 09570m
STORNOWAY 03026	19100m 340 15 06920/0 07380/0 046mb 310 08 21700m 320 09 05130/0 08540/0 09130/0 09790/0 10340/0 11750/1 12210/1 12750/1 14320/1	320 88 09010m 330 85 08930m 330 129 10690m 330 156 11000m
SHANWELL 03170	038mb 350 07 22400m 290 06 09310/0 10280/1 445mb 340 64 20500m 360 12 03100/0 07130/0 09380/0 09870/0 11390/1 11870/1	320 73 09080m 330 82 09570m 340 103 09240m 340 121 10640m
ALDERGROVE 03917	10600/1 11550/1 11500/1 181mb 350 87 12500m 340 116 09550/0 12220/1 12700/1	320 117 10300m 330 93 10600m 350 148 11400m 340 156 12060m
AUGHTON 03322	124mb 290 44 05980/0 10590/1 212mb 340 74 031mb 260 11 05400/0 06730/0 09940/0 10370/0 10960/0 11390/1 11730/1 12260/1	310 86 09900m 310 91 09010m 340 94 10670m 340 153 11180m
HEMSBY 03496	17700m 320 14 11260/1 08510/0 10330/1	290 64 10000m 300 81 08970m 300 72 09320m 330 102 08720m
CRAWLEY 03774	115mb 300 27 16800m 320 27 03980/0 107mb 320 23 21300m 300 05 10050/0 10970/1 11400/1	300 74 10340m 310 88 09920m 310 64 07430m 350 94 10740m
CAMBORNE 03808	165mb 310 46 15990/1 16600/1 106mb 320 33 15300m 330 42 08670/0 09770/0 11240/0 11750/1 12650/1	320 74 11300m 360 76 11560m 350 123 11490m
VALENTIA 03953		330 62 11880m 360 110 11650m
Ocean Weather Station 'I' 59°00'N 19°00'W	330mb 310 66 179mb 310 79 082mb 310 15 14400m 320 105 16500m 310 58 17400m 310 34 06450/0 08300/0 11850/0 13550/1 16250/1 127mb 290 61 042mb 290 15 20400m 300 66 08600/0 09950/0 14900/1	310 135 11590m 320 150 13270m 300 119 11800m 300 125 10720m
Ocean Weather Station 'J' 52°30'N 20°00'W	232mb 330 70 181mb 360 51 128mb 320 25 080mb 320 23 062mb 040 10 835mb 300 30 458mb 300 32 183mb 330 48 096mb 330 14 044mb 000 00	330 70 11140m
LARKHILL 03743	04530/0	300 80 10500m 300 76 09050m

NOTES ON THE AEROLOGICAL SITUATION

A trough developing over Hudson's Bay is moving east. The trough over Labrador and Nova Scotia which has been rather slow moving is now beginning to move east more quickly. The broad ridge over the Atlantic persists with a strong south west to west flow extending from Newfoundland toward Iceland. There has been some development of the ridge across Iceland to the Norwegian Sea. The trough over Europe persists, and there has been some retrogressive movement over the British Isles as the small low over southwest Norway intensified and moved southeast, with a northwesterly jet stream developing on it's southwest flank over the British Isles.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Max.	Extreme Min.	Wind* V _R	V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	220 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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 Max.	Extreme Min.	Wind* V _R	V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

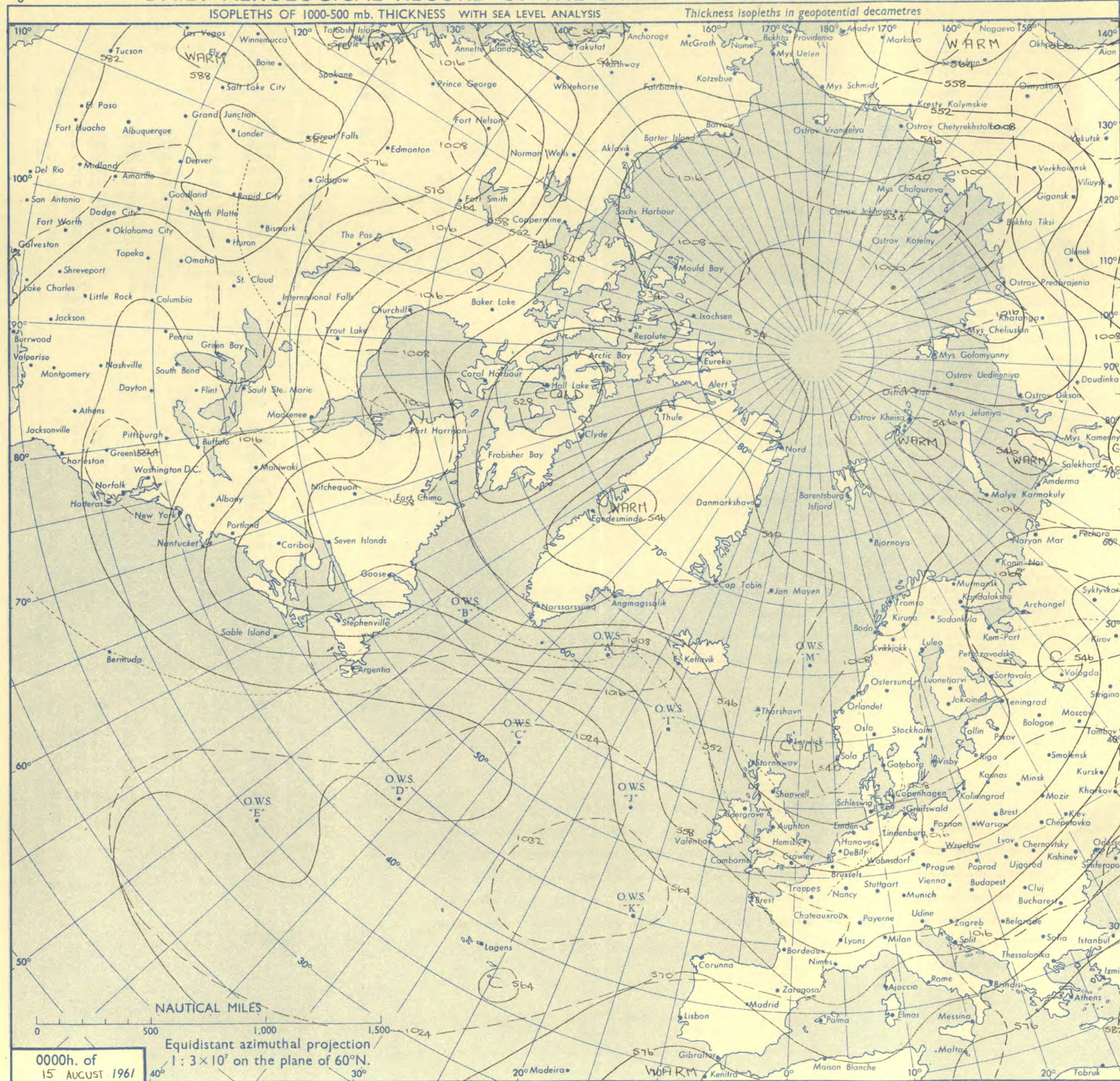
Press. Level	Average Height	Average Temp.	Extreme Max.	Extreme Min.	Wind* V _R	V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	102	-68.1	...	72	...	-75
Lower	(195)	(-59.1)	...	...	...	...

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

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

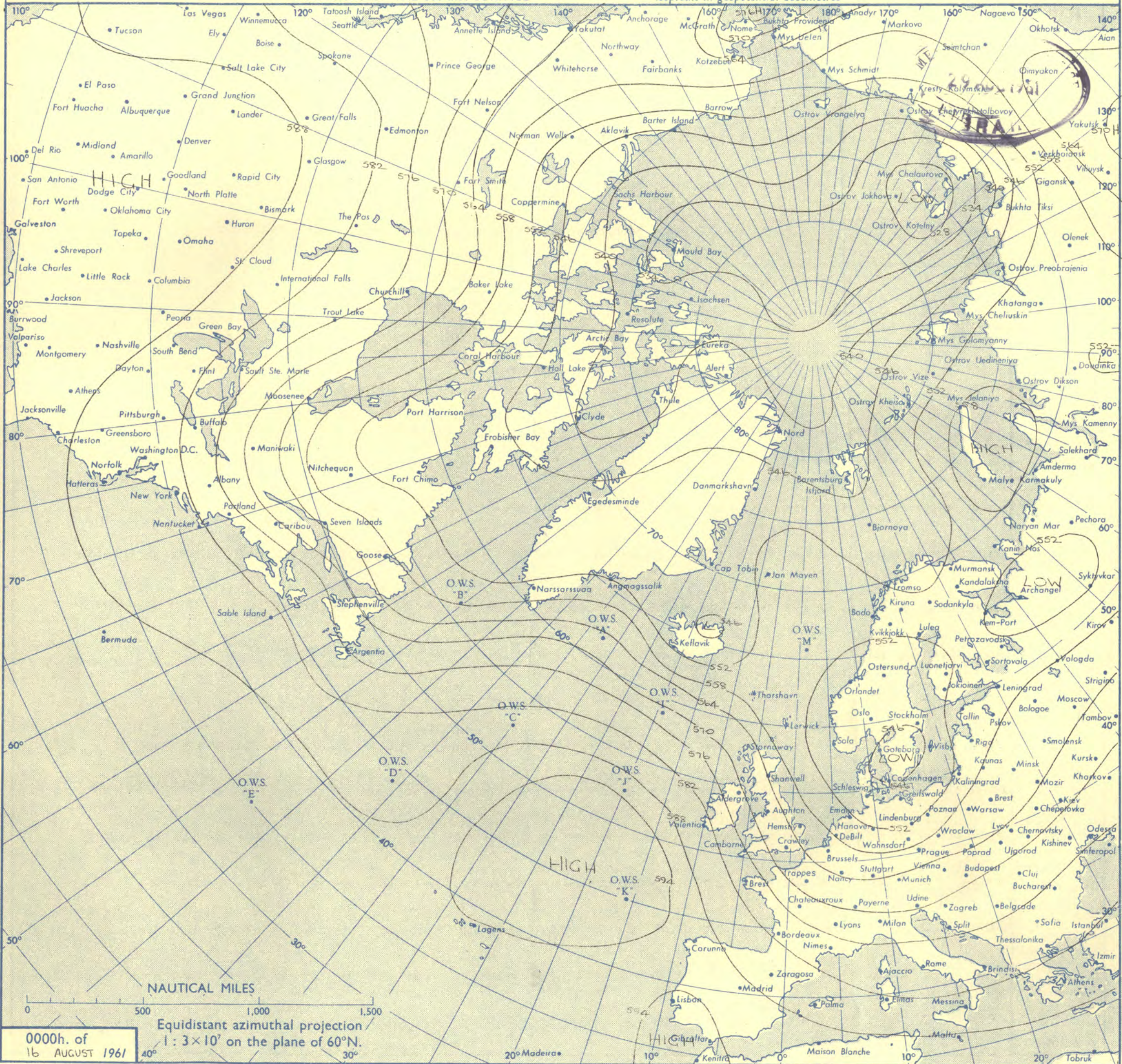
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



NAUTICAL MILES

0000h. of
16 AUGUST 1961

Equidistant azimuthal projection
1:3x10⁷ 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	152330	082	09 08	116	09 07	1443	03 03-	2991	05- 16-	5561	20- 37-	7176	32- 47-	9136	49- ++	11785	47- 13683	48- 16351	48- 18692	49-								
	161130	082	10 09 080	++ ++	1401	00 02-	2943	06- 08-	5509	22- 27-	7109	34- 40-	9064	46- ++	11798	43-												
STORNOWAY 03026	152330	013	12 10 142	12 09	1485	06 04	3058	01- 05-	5661	16- 40-	7299	28- 49-	9302	40- ++	11970	55- 13827	52- 16451	52-										
	161132	013	14 10 112	12 07	1444	02 00	2997	04- 20-	5582	15- ++	7252	23- 43-	9297	38- ++	11979	54- 13818	54- 16426	51- 18757	51-									
SHANWELL 03170	152330	005	06 05 149	11 04	1485	04 05-	3045	03- 26-	5639	17- 33-	7274	29- 46-	9269	43- ++	11936	51- 13813	50- 16466	50-										
	161130	005	21 09 078	20 08	1549	05 00	2998	03- 28-	5571	19- 45-	7230	19- 47-	9270	39- ++	11944	55- 13796	52-											
ALDERGROVE 03917	160001	077	12 10 181	11 09	1522	05 04	3092	00 01-	5726	14- 17-	7384	25- 35-	9422	37- 44-	12113	56- 13929	56- 16527	55- 18831	55- 21012	51-								
	161220	077	16 14 136	15 13	1493	08 07	3075	02 09-	5733	09- 29-	7419	21- 29-	9482	36- 45-	12182	54- 13980	60- 16539	52- 18827	55- 20994	53- 24309	51-							
AUGHTON 03322	152330	056	12 09 176	12 07	1561	03 01-	3073	03- 23-	5681	16- 23-	7321	29- 34-	9326	42- ++	11993	55- 13834	54- 16452	52- 18758	51- 20945	51-								
	161130	056	14 13 136	13 11	1487	07 05	3069	01- 04-	5697	14- 34-	7367	23- 33-	9419	37- 47-	12113	55- 13939	56- 16530	53- 18838	51-									
HEMSBY 03496	152330	012	09 07 152	12 08	1492	02 01-	3033	05- 18-	5602	22- 39-	7212	32- 47-	9180	47- ++	11870	46-												
	161130	012	16 09 127	14 08	1473	06 01-	3042	01- 05-	5647	17- 27-	7288	28- 40-	9302	39- 45-	11994	51- 13862	51- 16498	51- 18818	51- 21010	51-								
CRAWLEY 03774	152330	144	12 08 175	12 07	1518	03 02-	3074	03- 24-	5661	18- 32-	7297	29- 34-	9287	45- ++	11931	52- 13798	52- 16419	53- 18724	51- 20910	51-								
	161130	144	18 11 161	17 10	1509	06 04-	3078	01 06-	5697	15- 27-	7344	25- 29-	9377	39- 45-	12043	56- 13865	57-											
CAMBORNE 03808	152330	088	14 13 208	15 13	1556	05 03	3141	03 07-	5780	14- 17-	7448	23- 26-	9500	37- 43-	12185	56- 13988	60- 16540	56- 18810	54-									
	161140	088	17 14 201	14 12	1556	10 00	3146	03 02-	5821	09- 15-	7513	22- 27-	9576	35- 44-	12260	57- 14048	62- 16570	60- 18825	54-									
VALENTIA 03953	152330	014	14 12 224	13 11	1579	08 05	3178	03 03-	5850	11- 14-	7540	20- 27-	9610	35- 41-	12310	56- 14100	63- 16620	60-										
	161200	014	15 14 209	14 13	1572	09 01	3177	07 04-	5870	08- 22-	7570	19- 36-	9640	36- 49-	12340	56- 14130	62- 16650	61- 18880	58- 21020	55-								
Ocean Weather Station 'I' 59°00'N 19°00'W	160001		11 11 139	10 08	1489	09 00	3077	01 11-	5730	12- 16-	7410	21- 29-	9470	35- 44-	12160	56- 13950	59- 16530	55- 18820	52-									
	161200		12 11 161	10 08	1511	08 05	3097	03 01	5760	11- 16-	7440	22- 35-	9500	37- ++	12200	53- 14030	58- 16590	57- 18870	53-									
Ocean Weather Station 'J' 52°30'N 20°00'W	160001		15 15 245	14 14	1620	12 11	3235	09 18-	5940	05- 32-	7660	15- 40-	9760	32- 53-	12500	53- 14300	62- 16810	60- 19060	56- 21200	53- 24510	49-							
	161200		14 14 +++	15 14	1630	12 05	3238	07 08-	5940	06- 29-	7640	17- 42-	9730	34- 55-	12450	51- 14260	61- 16790	57- 19080	52- 21260	49- 24360	46-							

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _h C _L hC _M C _H	PRESSURE			TROPOPAUSE
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 25400	014 004 782	989 ++ 06 936 06 04 892 02 00 853 03 03 737 02 13 702 05 15 660 07 23 510 19 36 460 24 40 395	270 09830 53-	
	62 4547+	010 000 858 822	989 ++ 07 943 05 03 895 ++ 01 843 01 03 830 00 02 804 ++ 02 650 ++ 11 596 11 15 545 18 22 460 24 40 395	270 09830 53-	
STORNOWAY 03026	60 855++	017 015 718	935 07 05 889 07 05 786 03 01 770 03 01 720 00 02 679 ++ 08 643 06 11 606 08 19 593 08 24 582 ++ 210 11640 55-	210 11640 55-	
	25 725++	014 012 762	008 ++ 08 993 11 07 936 ++ 07 912 05 05 849 02 00 823 03 04 799 02 10 770 ++ 17 670 06 21 621 ++ 192 12230 55-	192 12230 55-	
SHANWELL 03170	02 00900	018 018 750	008 12 07 000 11 04 910 ++ 01 880 04 01 824 ++ 14 816 04 14 788 ++ 16 750 00 22 722 ++ 20 690 ++ 218 11360 53-	218 11360 53-	
	03 42600	009 009 743	987 17 06 935 12 04 890 ++ 05 797 01 02 791 ++ 02 780 ++ 09 765 01 15 731 ++ 25 720 01 25 580 14 181 12580 57-	181 12580 57-	
ALDERGROVE 03917	60 856++	022 013 707	942 08 06 916 ++ 03 893 07 05 754 01 00 746 02 01 666 ++ 03 650 ++ 08 634 03 08 583 07 10 559 08 13 503 15 18 496 14 19 482 ++ 27 435 ++ 35 407 ++ 33 378 28 38 308 36 43 282 ++ 46 250 46 195 57 154 58 138 53 102 55 085 52 036 48	195 12270 57-	
	58 855++	016 007 673	945 11 10 836 ++ 06 800 ++ 01 780 ++ 20 750 ++ 27 741 04 17 708 01 05 692 ++ 20 648 ++ 06 623 03 06 606 02 06 560 ++ 13 527 ++ 13 508 09 18 387 ++ 30 277 ++ 48 250 45 223 51 159 63 098 52 070 55 041 51 030 51	159 13620 63-	
AUGHTON 03322	02 40930	021 014 748	003 12 07 868 04 03 825 ++ 06 814 ++ 06 787 02 14 767 ++ 19 668 06 25 629 05 25 596 08 13 579 ++ 13 542 11 17 486 ++ 25 474 ++ 31 458 21 33 395 30 35 373 31 40 320 39 50 299 42 281 42 250 55 208 55 047 51	208 11710 55-	
	53 5632+	016 010 707	992 12 10 918 09 07 804 06 04 660 04 07 635 ++ 25 578 06 33 523 12 31 486 ++ 33 470 16 28 462 ++ 25 447 17 27 286 39 49 250 46 198 56 186 56 179 58 090 51 081 54 058 51	179 12810 58-	
HEMSBY 03496	02 00900	018 017 814	007 12 08 970 10 07 950 09 03 887 ++ 02 857 ++ 01 818 00 01 774 01 05 756 03 10 740 ++ 14 632 09 26 471 25 41 385 34 48 364 37 50 299 47 269 50 250 47 200 46	269 09900 50-	
	02 51542	015 014 727	000 14 08 885 05 03 860 07 01 789 ++ 05 760 01 05 733 ++ 03 698 01 05 538 14 17 516 ++ 24 477 18 218 11420 52- 31 430 24 40 375 32 41 291 40 46 250 46 218 52 170 51 048 51	218 11420 52-	
CRAWLEY 03774	02 00901	021 004 748	982 12 06 950 ++ 05 932 ++ 02 878 ++ 00 835 02 03 801 01 08 785 02 13 724 01 22 569 13 36 556 13 36 528 ++ 39 484 20 30 473 20 27 466 ++ 26 436 23 27 329 ++ 45 292 47 250 50 225 53 176 50 094 54 042 51	225 11180 53-	
	02 52601	019 002 767 692	979 13 07 897 06 04 846 06 04 827 ++ 04 810 ++ 00 767 00 03 727 02 04 711 ++ 07 613 ++ 11 602 ++ 13 558 ++ 14 554 ++ 18 530 12 23 486 17 28 413 25 30 395 25 30 331 ++ 39 293 ++ 46 250 48 223 54 197 56 191 55 174 58 116 53	174 12920 58-	
CAMBORNE 03808	02 00900	025 014 659	006 15 13 961 ++ 09 839 04 02 814 07 11 795 ++ 20 731 ++ 26 719 05 11 694 ++ 05 678 ++ 05 603 ++ 09 563 08 10 552 ++ 13 442 ++ 24 386 24 28 284 40 46 250 47 180 60 162 58 133 61 127 56 096 57 068 53	180 12830 60-	
	03 555++	024 013 659 605	991 13 11 935 09 08 910 11 07 870 09 06 856 10 01 825 ++ 02 808 ++ 02 775 06 01 695 03 02 632 02 05 621 00 09 591 ++ 16 543 04 13 522 ++ 13 463 12 19 402 21 26 338 29 39 286 38 47 250 47 172 62 097 61	172 13190 62-	
VALENTIA 03953	51 864++	027 025 639	929 10 08 836 08 06 831 08 04 794 10 12 680 02 06 639 00 12 617 00 12 576 04 09 566 03 09 500 11 14 466 12 16 439 15 21 372 25 30 353 26 31 326 31 36 250 44 175 62 153 64 148 62 079 60	175 13200 62-	
	47 9+0++	025 023 592	894 09 07 872 09 07 832 09 00 808 09 01 765 07 05 705 07 04 621 03 07 542 05 17 526 04 17 454 14 29 387 21 38 318 33 47 250 44 204 55 157 65 144 60 089 60 043 54	157 13800 65-	
Ocean Weather Station 'I' 59°00'N 19°00'W	58 6732+	017 017 659	997 10 08 943 07 06 907 ++ 01 896 12 00 852 09 00 842 08 04 813 09 16 793 07 21 755 06 29 740 05 32 712 ++ 07 690 00 12 679 01 17 654 ++ 28 619 03 23 595 ++ 31 539 07 17 501 ++ 16 479 14 18 462 14 20 450 15 22 363 27 35 327 ++ 42 302 35 44 278 40 48 250 46 231 51 176 62 171 61 162 62 145 57 130 59 124 55 112 56 100 55 078 54 073 52 054 50 999 10 07 967 09 07 946 10 05 936 ++ 03 930 09 04 902 11 07 839 07 04 799 07 04 781 ++ 03 752 ++ 05 748 03 04 728 ++ 00 692 03 02 636 01 04 602 ++ 06 557 05 11 530 08 14 453 ++ 20 395 ++ 36 342 29 45 320 ++ 49 303 36 250 45 243 46 166 59 160 58 100 57 066 53	176 13000 62-	
	03 5547+	019 019 654	999 10 07 967 09 07 946 10 05 936 ++ 03 930 09 04 902 11 07 839 07 04 799 07 04 781 ++ 03 752 ++ 05 748 03 04 728 ++ 00 692 03 02 636 01 04 602 ++ 06 557 05 11 530 08 14 453 ++ 20 395 ++ 36 342 29 45 320 ++ 49 303 36 250 45 243 46 166 59 160 58 100 57 066 53	166 13400 59-	
Ocean Weather Station 'J' 52°30'N 20°00'W	43 9+0++	028 028 575	015 15 15 867 12 12 833 12 06 793 10 01 755 10 14 723 10 18 680 08 19 638 05 24 584 01 23 514 05 32 455 08 35 264 38 59 250 41 193 55 148 63 127 63 108 60 092 60 068 56 056 55 025 48 020 48	148 14400 63-	
	45602	029 029 588	991 16 13 965 16 13 878 12 10 840 12 01 720 08 02 608 02 16 588 00 20 426 13 38 294 35 56 266 40 60 250 43 200 55 150 61 142 62 077 54 041 48 023 42	150 14300 61-	

STATION		MAX. WIND
LERWICK 03005	057mb 350 12 15000m 330 37 03400/0 09100/0 269mb 330 50 25200m 350 06 09450/0 11850/1 14050/1	320 65 11300m 320 669 10650m 330 65 10710m 330 91 11650m
STORNOWAY 03026	173mb 330 93 14700m 330 66 03660/0 05320/0 06170/0 06590/0 07460/0 12760/1 14060/1 172mb 320 105 127mb 310 56 19600m 350 18 05110/0 13080/1 17960/1	320 149 10480m 320 142 10430m 320 133 08730m 310 99 12850m
SHANWELL 03170	187mb 340 86 129mb 340 49 08060m 330 107 07700/0 08060/0 08490/0 11250/1 12050/1 149mb 320 111 208mb 320 104 14920m 330 68 03850/0 04960/0 05480/0 05900/0 12160/1 14200/1 14920/1	340 161 10280m 330 150 11080m 330 143 08550m 310 126 12270m
ALDERGROVE 03917	14500m 340 59 08260/0 11780/1 13080/1 14050m 330 84 02420/2 07110/0 14050/1 112mb 330 57 14600m 320 72 07550/0	340 137 11500m 340 134 11260m 320 106 10900m 310 105 11800m
AUGHTON 03322	173mb 350 99 053mb 350 13 06300/0 07750/0 08510/0 12100/1 12550/1 12800/1 22200m 350 08 13440/1 13850/1	340 166 10730m 340 138 12150m 330 126 11120m 330 119 11450m
HEMSBY 03496	216mb 340 70 11650m 350 98 17120m 340 21 07000/0 08840/0 09250/0 09790/0 10250/0 10700/1 11650/1 347mb 330 100 177mb 340 95 06500m 330 103 13230m 320 93 05650/0 06500/0 12760/1 13240/1 13670/1	350 86 10070m 350 148 10470m 330 154 10760m 330 140 10340m
CRAWLEY 03774	216mb 360 119 166mb 340 55 08620/0 12600/1 12900m 330 96 06000/0 12290/1	350 139 10910m 350 140 10910m 340 133 10930m 330 120 10100m
CAMBORNE 03808	173mb 340 96 14700m 06230/0 09440/0 12550/1 14550/1 126mb 340 50 13740/1 14880/1	340 108 12510m 350 112 12300m 340 92 11920m 330 88 11260m
VALENTIA 03953		340 99 12640m 320 68 11000m
Ocean Weather Station 'I' 59°00'N 19°00'W	15000m 290 58 17790m 290 21 17600/2 22850/2	290 102 10680m 270 86 10590m
Ocean Weather Station 'J' 52°30'N 20°00'W	127mb 310 29 028mb 020 07 294mb 230 44 118mb 210 25 077mb 240 15 140 mb 230 37	
LARKHILL 03743	14200/1 07130/0	350 132 11500m 340 146 11630m

NOTES ON THE AEROLOGICAL SITUATION

The troughs over eastern Canada and over the west Atlantic are moving steadily east, while the high cell and ridge over the eastern Atlantic persist. The ridge which yesterday extended northeast across Iceland has however been eroded by the trough now over Iceland, which moved quickly east from south Greenland. The trough is now moving southeast towards the slow-moving vortex which persists over Scandinavia. The west to northwest jet stream from west of Iceland across the British Isles has been maintained. The trough extending southwest across France from the Scandinavian vortex is moving southeast.

AVERAGE AND EXTREME VALUES 1951-55

AUGUST

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

Press. Level	Average Height Temp.	Extreme Temps. Max. Min.	Wind* V _R V _S
mb.	gpm. °C	°C °C	° Kt. Kt.
40	22435 -47.1	-44 -56	201 3 7
60	19760 -48.1	-41 -54	213 4 9
100	16400 -48.3	-42 -57	235 9 14
150	13730 -48.4	-42 -63	242 13 24
200	11845 -49.7	-40 -64	243 16 34
300	9190 -44.7	-34 -53	232 17 41
400	7205 -30.0	-19 -39	230 15 33
500	5580 -18.4	-10 -27	229 13 27
700	2985 -2.7	4 -10	230 10 20
850	1425 4.8	16 -2	229 7 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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 _R V _S
mb.	gpm. °C	°C °C	° Kt. Kt.
40	22425 -49.2	-45 -56	158 2 6
60	19780 -50.8	-43 -57	224 3 9
100	16470 -52.4	-43 -62	267 13 18
150	13845 -52.3	-42 -69	273 23 31
200	11980 -52.4	-40 -63	274 29 43
300	9325 -42.4	-34 -52	271 27 45
400	7320 -27.2	-18 -37	270 23 36
500	5680 -15.7	-8 -24	267 20 30
700	3060 0.1	7 -6	262 14 22
850	1480 7.7	17 2	260 10 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

Press. Level	Average Height Temp.	Extreme Temps. Max. Min.	Wind* V _R V _S
mb.	gpm. °C	°C °C	° Kt. Kt.
40	(22330) (-55.6)	... ...	100 14 15
60	19780 -60.8	-54 -68	110 7 11
100	16655 -66.8	-58 -74	250 21 24
150	14175 -60.2	-53 -70	255 41 45
200	12345 -50.9	-44 -59	265 44 49
300	9620 -35.2	-29 -44	275 31 37
400	7555 -20.4	-16 -27	285 23 29
500	5865 -8.6	-4 -14	290 19 24
700	3170 8.9	13 1	310 15 19
850	1540 18.4	27 12	310 7 11

Tropo- pause	Average Press. Temp.	Max. Min.	Max. Min.
Upper	mb. °C	mb. °C	mb. °C
Lower	102 -68.1	... 72	... -75
	(195) (-59.1)	... ...	... ...

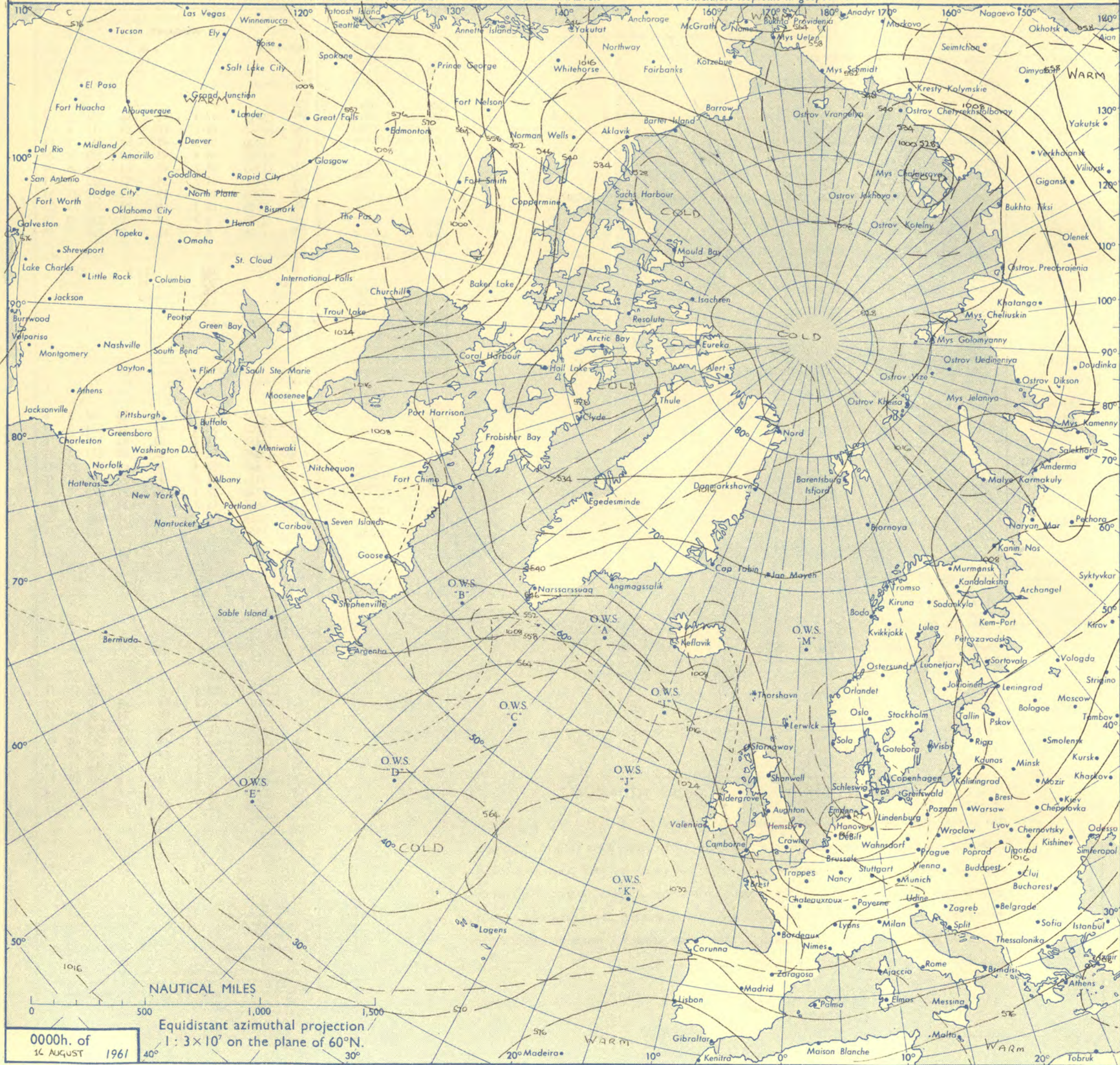
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

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

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

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

Thickness isopleths in geopotential decametres





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	162330	082	12	11	115	12	10	1455	06	01-	3018	04-	12-	5597	20-	33-	7217	30-	46-	9212	41-	++	11899	49-	13779	49-	16437	50-	18767	50-										
	171130	082	13	09	125	11	07	1457	05	03-	3015	04-	16-	5600	19-	42-	7241	27-	38-	9259	42-	++	11893	53-	13736	51-	16377	51-	18711	48-	20924	48-								
STORNOWAY 03026	162338	013	13	11	147	11	09	1483	06	03-	3049	02-	++	5667	13-	18-	7334	23-	37-	9375	39-	50-	12027	54-	13879	53-	16484	52-	18793	51-										
	171130	013	13	12	135	11	09	1480	07	05	3056	00	01-	5669	15-	21-	7324	25-	39-	9336	42-	++	11981	54-	13848	51-	16481	59-	18820	49-	21031	49-								
SHANWELL 03170	162330	005	13	09	131	13	08	1475	03	02	3037	02-	15-	5636	15-	34-	7308	22-	33-	9354	38-	46-	12027	53-	13873	56-	16474	51-	18782	52-	20965	49-								
	171130	005	17	09	144	14	06	1490	08	01-	3066	01-	16-	5699	13-	17-	7362	24-	32-	9397	39-	49-	12062	53-	13918	52-	16546	51-												
ALDERGROVE 03917	162330	077	12	09	165	11	09	1505	09	08-	3084	01	12-	5722	12-	26-	7397	22-	44-	9446	38-	++	12125	55-	13940	59-	16500	57-	18761	53-	20933	52-	24252	50-						
	171130	077	15	12	165	12	10	1518	07	07	3100	02	18-	5741	13-	23-	7403	25-	44-	9429	41-	++	12077	56-	13911	56-	16503	55-	18794	52-	20983	51-	24320	50-						
AUGHTON 03322	162330	056	13	10	142	12	10	1485	07	03-	3056	00	19-	5694	12-	15-	7370	22-	39-	9420	38-	++	12110	53-	13927	59-	16508	55-	18796	53-										
	171130	056	16	11	172	12	10	1513	07	02-	3096	02	04-	5739	13-	21-	7409	23-	33-	9444	41-	++	12086	55-	13926	56-	16524	52-	18830	50-										
HEMSBY 03496	162330	012	12	11	097	13	11	1436	04	01	2996	03-	22-	5580	17-	39-	7230	24-	41-	9260	41-	++	11922	55-	13762	53-	16383	53-	18695	51-										
	171130	012	15	10	149	12	06	1484	03	00	3042	01-	18-	5644	16-	47-	7299	26-	39-	9329	40-	48-	11998	53-	13855	53-	16472	52-	18785	51-										
CRAWLEY 03774	162330	144	15	10	126	++	++	1477	05	02	3050	00	19-	5692	11-	15-	7375	22-	27-	9433	36-	++	12134	53-	13971	56-	16553	55-	18834	55-										
	171130	144	16	09	170	16	09	1530	04	01	3094	01	25-	5735	12-	28-	7404	24-	43-	9435	40-	++	12098	55-	13928	57-	16496	56-												
CAMBORNE 03808	162330	088	15	14	180	14	13	1544	11	00	3146	05	02	5815	09-	34-	7511	19-	++	9585	35-	++	12279	56-	14060	64-	16589	59-												
	171200	088	17	12	199	14	11	1562	12	02	3169	04	03-	5839	10-	28-	7525	22-	38-	9565	40-	++	12201	60-	13979	63-	16502	60-	18767	55-										
VALENTIA 03953	162330	014	15	14	212	14	13	1577	11	09	3180	05	12-	5870	07-	32-	7570	20-	43-	9630	36-	++	12330	56-	14130	63-	16640	60-												
	171150	014	16	15	208	14	13	1573	13	08	3170	02	05-	5850	10-	36-	7520	23-	46-	9560	39-	++	12220	60-	14030	58-	16580	58-												
Ocean Weather Station 'I' 59°00'N 19°00'W	170000		13	13	108	14	13	1479	11	08	3078	02	01-	5730	12-	20-	7400	23-	33-	9450	38-	47-	12130	55-	13990	52-	16600	53-	18910	53-										
	171200		13	11	017	12	10	1360	04	03	2917	02-	12-	5510	17-	29-	7160	27-	38-	9180	37-	48-	11940	42-	13860	47-	16510	51-	18820	53-										
Ocean Weather Station 'J' 52°30'N 20°00'W	170000		15	15	235	15	14	1610	12	00	3218	07	20-	5900	09-	36-	7590	20-	44-	9650	36-	57-	12340	56-	14160	56-	16730	55-	19000	53-	21180	51-	24520	48-						
	171200		14	12	194	13	10	1550	11	05-	3157	07	22-	5840	09-	35-	7520	21-	44-	9580	37-	57-	12260	55-	14090	54-	16690	53-	18990	51-	21200	49-	24580	46-						

STATION	ww N _h C _L hC _M C _H	PRESSURE																											TROPOPAUSE		
		MSL	Surf.	0°C level																									mb	m	°C
LERWICK 03005	02 756++	014	004	758	990 12 07 930 ++ 05 894 05 03 869 07 01 857 ++ 01- 715 ++ 10- 650 ++ 17- 598 ++ 21- 454 ++ 41- 364 35- 233 10900 50-																								233	10900	50-
	02 854++	015	005	759	992 10 06 899 04 03 880 06 02 858 ++ 06- 815 04 06- 697 04- 16- 607 09- 29- 483 21- 44- 465 19- 42- 363 216 11390 57-																								216	11390	57-
STORNOWAY 03026	02 85600	018	016	725	908 06 05 897 ++ 05 865 ++ 02- 857 06 03- 795 ++ 08- 701 ++ 36- 625 07- ++ 564 09- ++ 557 08- ++ 538 09- 222 11360 56-																								222	11360	56-
	63 864++	016	015	710	010 ++ 10 959 08 06 932 ++ 04 900 07 05 891 08 06 656 03- 04- 585 ++ 12- 528 14- 17- 521 13- 16- 483 ++ 228 11130 55-																								228	11130	55-
SHANWELL 03170	02 5563+	016	015	738	008 14 09 854 03 02 819 ++ 01 812 02 01- 793 ++ 05- 779 03 06- 726 01- 12- 686 ++ 17- 558 ++ 32- 532 ++ 229 11160 53-																								229	11160	53-
	02 3167+	017	017	717	010 ++ 07 000 14 06 882 06 04 856 08 00 765 04 13 736 ++ 07- 717 00 12- 699 ++ 16- 654 ++ 07- 611 ++ 08- 214 11610 55-																								214	11610	55-
ALDERGROVE 03917	01 3567+	020	011	670	944 ++ 05 897 04 03 886 10 01 880 ++ 06- 750 ++ 22- 672 ++ 09- 639 ++ 04- 597 ++ 07- 589 05- 09- 545 ++ 165 13360 59-																								165	13360	59-
	03 862++	020	011	670	993 11 09 945 10 10 828 06 06 820 ++ 06 807 07 01 800 ++ 03- 721 01 14- 700 02 18- 660 ++ 28- 600 04- 218 11500 56-																								218	11500	56-
AUGHTON 03322	02 15600	017	010	710	932 08 06 872 06 01 844 07 03- 653 03- 25- 618 04- 30- 587 ++ 26- 550 ++ 12- 541 08- 12- 497 ++ 15- 482 165 13340 60-																								165	13340	60-
	03 785++	021	014	681	002 13 09 877 04 03 870 05 03 861 07 01 817 08 09- 809 ++ 12- 767 ++ 06- 738 02 07- 698 01 05- 643 04- 217 11570 56-																								217	11570	56-
HEMSBY 03496	01 3096+	012	010	751	001 13 11 879 04 03 794 03 05- 761 ++ 14- 716 02- 20- 519 18- 40- 500 17- 39- 460 19- 41- 412 24- 42- 392 185 12400 57-																								185	12400	57-
	01 62463	018	016	779	010 13 06 928 07 04 890 ++ 02- 828 02 01 754 ++ 07- 738 01- 09- 709 00 15- 657 ++ 26- 542 13- 44- 453 18- 214 11530 54-																								214	11530	54-
CRAWLEY 03774	02 754++	015	998	689	913 08 06 853 05 03 821 06 08- 598 05- 34- 59- ++ 36- 581 04- 21- 574 ++ 16- 553 ++ 12- 516 11- 15- 506 168 13240 56-																								168	13240	56-
	02 72600	020	003	679	890 ++ 04 854 ++ 00 810 00 01- 795 02 06- 780 ++ 10- 747 02 18- 691 ++ 28- 625 ++ 36- 612 03- 20- 574 07- 187 12550 56-																								187	12550	56-
CAMBORNE 03808	10 860++	022	011	631	976 13 12 948 14 12 915 ++ 10 878 10 09 868 ++ 07 860 ++ 05- 858 12 03- 847 ++ 01 775 ++ 02- 762 07 02 161 13620 65-																								161	13620	65-
	02 65400	024	013	618	005 14 10 943 09 07 932 13 01 900 ++ 02 880 11 07 860 13 07 850 ++ 02 838 ++ 06 829 ++ 03 820 ++ 04- 186 12660 62-																								186	12660	62-
VALENTIA 03953	53 862++	025	024	590	985 13 12 928 12 11 876 10 09 843 12 10 797 09 03- 754 07 00 656 04 14- 510 06- 31- 434 16- 40- 250 45- 155 13900 63-																								155	13900	63-
	10 862++	025	023	630	012 14 13 938 13 11 868 09 08 852 13 09 703 02 05- 683 02 09- 653 01 25- 594 02- 29- 486 11- 37- 364 30- 50- 196 12300 61-																								196	12300	61-
Ocean Weather Station 'I' 59°00'N 19°00'W	51 862++	013	013	670	010 14 14 995 14 13 975 15 14 900 12 10 870 12 08 861 12 09 826 ++ 08 750 06 02 660 01- 02- 616 03- 12- 55- 100 53- 075 52- 071 54- 064 50- 202 12100 56-																								202	12100	56-
	02 4853+	002	002	790	940 08 06 928 08 06 778 01- 03- 767 00 03- 751 ++ 04- 695 ++ 15- 679 03- 15- 671 ++ 16- 647 ++ 13- 638 ++ 12- 608 ++ 16- 573 ++ 19- 537 ++ 27- 462 20- 32- 435 23- 36- 350 35- 44- 332 34- 44- 307 37- 48- 298 37- 49- 283 40- 250 40- 236 40- 217 42- 190 42- 132 52- 123 50- 100 51- 086 50- 073 54- 067 52- 283 09600 40-																								283	09600	40-
Ocean Weather Station 'J' 52°30'N 20°00'W	44 862++	027	027	600	990 15 13 967 16 04 925 16 03 860 13 00 785 09 01- 750 06 04- 720 06 15- 615 01 27- 500 09- 36- 448 14- 39- 282 40- 60- 250 45- 249 49- 200 57- 142 56- 127 59- 111 58- 096 55- 085 56- 066 52- 030 49- 200 12400 57-																								200	12400	57-
	02 855++	022	022	610	947 08 06 910 13 03 850 11 05- 777 08 09- 750 06 22- 710 07 22- 454 13- 39- 285 40- 59- 250 46- 205 56- 205 12100 56-																								205	12100	56-

UPPER WINDS AT STANDARD LEVELS

17 August

1961

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	162330	T	360 09	+++ ++	020 15	020 13	030 09	030 11	020 09	020 10	350,34	340 88	340106	340 88	340 43	330 36					
	170530	P	360 05	+++ ++	010 10	020 10	020 09	010 07	330 07	330 14	330 49	340 86	330 97	340 66	330 54	330 29	340 18				
	171130	T	000 00	+++ ++	010 03	000 00	270 02	220 03	250 06	330 16	330 42	330 49	320 45	330 44	330 34	330 24	340 17	340 09			
	171730	P	180 07	+++ ++	180 07	180 09	200 11	240 09	290 12	310 33	320 27	320 16	320 16	310 20	310 25	330 21	350 16	350 09	020 07		
STORNOWAY 03026	162338	T	290 05	+++ ++	320 17	320 19	330 22	330 30	330 36	320 61	320 56	330 60	320 62	310 64	320 53	330 31	330 17				
	170530	P	260 03	+++ ++	290 10	310 13	320 19	310 21	320 42	320 44	310 44	310 36	310 44	310 50	310 46	320 28	330 16				
	171130	T	180 10	+++ ++	220 18	240 21	250 16	260 30	290 24	290 34	280 35	280 29	270 29	270 34	300 25	320 19	340 13				
	171735	P	190 13	+++ ++	220 28	240 29	230 35	230 40	240 27	230 34	230 31	250 36	270 52	280 42	290 31	300 29	310 12				
SHANWELL 03170	162330	T	300 10	+++ ++	340 21	350 21	350 22	340 26	330 39	330 65	330 78	330 85	330 83	320 83	330 61	340 34	010 20				
	170530	P	210 03	+++ ++	320 07	340 10	340 17	330 25	330 38	330 55	330 67	320 59	330 58	320 67	320 61	330 35	330 23				
	171130	T	240 08	+++ ++	280 08	300 12	300 17	310 23	320 36	310 45	320 43	310 47	300 51	300 53	320 35	310 26					
	171730	P	240 10	+++ ++	260 22	270 29	280 29	280 28	280 28	290 36	280 35	290 38	300 53	300 44	300 41	310 23	350 13				
ALDERGROVE 03917	162330	T	290 10	+++ ++	330 29	330 33	330 37	340 43	330 52	320 62	320 66	310 85	310 91	300 88	320 53						
	170530	P	290 05	+++ ++	320 21	330 27	330 26	330 44	330 50	320 53	320 63	310 71	300 71	310 75	300 60	310 29					
	171130	T	190 10	+++ ++	280 18	300 26	300 33	300 27	300 37	300 40	300 50	290 57	290 67	290 56	290 43	310 25	340 10	310 08			
	171730	P	210 13	+++ ++	240 26	250 35	260 36	260 40	280 45	290 53	290 58	300 76	290 72	290 67	290 55						
AUGHTON 03322	162330	T	290 16	+++ ++	330 23	320 24	330 31	330 50	330 56	330 77	330 76	320 84	320 94	320 93	320 72	330 39	330 14				
	170530	P	340 04	+++ ++	330 12	340 25	350 33	340 43	340 59	340 59	320 68	320 69	320 75	320 78	310 54	320 40	330 17				
	171130	T	280 11	+++ ++	300 13	310 19	330 26	330 36	330 46	320 47	320 62	310 64	310 65	300 66	310 46	340 22	290 20	020 05			
	171730	P	270 10	+++ ++	280 18	300 21	320 26	310 37	300 39	310 46	300 48	300 68	310 71	310 68	300 49	310 26	320 14				
HEMSBY 03496	162330	T	320 11	+++ ++	340 37	340 37	340 36	340 32	340 35	330 67	330112	330113	330116	330 98	340 50						
	170530	P	340 12	+++ ++	340 28	340 30	340 26	350 30	340 30	340 32	330 94	330 92	330100	330 86	330 76	330 39	320 16	330 06			
	171130	T	350 13	+++ ++	340 16	330 20	340 17	360 20	350 26	340 45	340 73	330 71	320 83	330 77	330 56	330 34	330 22				
	171730	P	350 07	+++ ++	310 16	310 21	320 17	320 20	330 36	330 55	330 65	320 57	320 66	320 65	310 49	330 33	330 18				
CRAWLEY 03774	162330	T	340 12	+++ ++	340 25	340 30	330 38	330 48	330,62	330 85	330 83	330100	330116	330111							
	160530	P	300 05	+++ ++	350 18	350 19	340 29	340 37	340 54	340 68	330 82	330 81	330 94	330 99	330 95						
	171130	T	300 07	+++ ++	320 10	330 14	340 18	340 33	340 48	330 59	330 75	320 85	320 93	320 87							
	171730	P	300 05	+++ ++	300 10	310 12	340 27	330 36	330 43	330 49	330 56	310 68	310 69	310 74	310 61	320 32					
CAMBORNE 03808	162330	No winds reported																			
	170530	No winds reported																			
	171210	T	330 12	+++ ++	340 17	340 21	340 26	340 29	330 32	320 46	300 56	300 65	300 65	280 77	290 48	320 21	310 09				
	171730	P	270 05	+++ ++	310 15	320 18	330 18	320 27	310 34	310 40	300 46	300 60	280 64	290 72	290 50	300 31					
VALENTIA 03953	162330	T	350 08	340 13	340 23	340 32	330 31	320 34	320 35	310 44	310 57	290 73	300 66	300 79							
	171130	P	225 10	+++ ++	290 16	280 18	280 19	280 33	280 37	290 40	280 55	280 73	210 74	270 76	280 38	290 19	300 13				
Ocean Weather Station 'I' 59°00'N 19°00'W	170000	T	200 20	+++ ++	240 30	230 32	230 32	230 33	230 34	240 36	230 39	230 45	230 48	220 47	230 34	250 16	270 06				
	170600	P	180 20	+++ ++	230 33	230 33	220 40	220 40	210 53	210 48	210 54	200 62	210 48	220 33	210 18						
	171200	T	250 21	+++ ++	260 30	270 29	270 38	270 34	270 47	280 53	280 82	280 72	280 60	260 40	260 32	270 15					
	171800	P	240 30	+++ ++	300 31	300 31	300 31	300 40	300 47	290 52	290 48	280 77	280 53	270 33	260 14	250 16	270 12				
Ocean Weather Station 'J' 52°30'N 20°00'W	170000	T	240 17	240 18	250 21	250 22	250 25	230 34	240 38	250 44	250 42	250 65	250 77	250 63							
	170600	P	220 24	+++ ++	250 34	250 40	250 38	260 42	260 42	260 47	250 48	250 52	250 77	240 63							
	171200	T	270 25	270 26	280 36	270 39	270 40	270 36	270 35	270 39	260 33	260 29	260 37	260 37	270 29	270 19					
	171800	P	290 28	+++ ++	290 30	290 35	290 43	270 42	280 41	260 44	250 37	250 33	250 32	250 32	250 30	250 18	260 18				
LARKHILL 03743	170630	P	320 06	+++ ++	350 22	360 23	340 35	340 48	330 58	330 62	330 77	320 88	320 97	320103	320 87						
	171030	P	330 08	+++ ++	340 14	350 16	350 34	340 44	330 47	330 53	330 68	320 84	320 99	320 91	310 64	310 33					

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
171105	64.6°N. 11.0°W	010	003	818	061 09 06	082	06 04	948 05 01	1408 01 01	1896 01 03	01 08	2963 02 06	05 08	4182 06 06	11 11	5584 17 18
Cloud :— 5/8ST. 1000 to 1700ft. 8/8Sc. 4500 to 6000ft. 2/8Ac. 9000 to 10000ft. 6/8As. 12000 to 16000ft. 1/8Ac at 18000ft. 5/8Cs. 25000ft to TNG.																
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
171237	62.3°N 18.5°W	002	995	762	061 09 09	015	09 09	887 07 07	1353 03 03	1844 02 02	01 01	2914 02 03	05 07	4124 08 09	14 15	5511 17 20
Cloud :— 7/8Sc. 1200 to 16000ft. 5/8Cs. 25000ft to TNG.																
Inversion Levels :— Isothermal Levels :— 995mb to 950mb 9½°C.																
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-.													Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General			
For special arrangements for supply to schools and colleges see Form 2452.													Meteorological Office, Air Ministry, Kingsway, London, W.C.2			

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	347mb 340 50 173mb 340 60 072mb 330 23 08100m 340 75 18900m 350 09 05880/0 07600/0 11150/1 11630/1 23800m 020 07 02900/2 04300/3	340 114 10090m 330 98 10900m
STORNOWAY 03026	063mb 350 16 18900m 340 14 03320/0 054mb 310 11 18700m 310 11 09240/0 13790/1	310 70 12310m
SHANWELL 03170	059mb 030 39 19500m 340 12	320 94 11280m 320 70 11560m
ALDERGROVE 03917	169mb 310 70 102mb 320 32 14600m 310 42 17000m 330 26 02750/0 13950/4 031mb 050 08 07400/0	310 101 11530m 300 81 11360m 290 68 10790m 290 78 08880m
AUGHTON 03322	131mb 330 59 089mb 330 25 061mb 340 11 01520/0 12760/1 13070/1 20400m 350 07	320 104 11230m 310 81 11240m 300 69 11960m 310 76 09880m
HEMSBY 03496	06120m 340 66 14430m 330 53 05740/0 06500/0 12030/1 13990/1 19720m 330 17 10630/0	330 121 11070m 330 103 10420m 320 90 11530m 320 76 10870m
CRAWLEY 03774	179mb 330 102 15000m 320 62 04430/0 09650/0 14030/1 11220/0	330 120 11040m 330 102 11660m 320 97 10750m 310 88 11420m
CAMBORNE 03808	055mb 030 07 18000m 310 18 12950/1 15250/1	280 78 12200m 290 75 11760m
VALENTIA 03953	00300m 260 13 00600m 280 14 14100m 280 37 18000m 300 12 19200m 300 14	300 79 12580m 270 81 09900m
Ocean Weather Station 'I' 59°00'N 19°00'W	15600m 210 12 463mb 270 68 227mb 270 49 075mb 270 09 18900m 280 11	200 63 09160m 280 90 07290m 280 91 08580m
Ocean Weather Station 'J' 52°30'N 20°00'W	322mb 250 54 259mb 250 78 156mb 250 57 181mb 230 70 370mb 260 24 082mb 270 12 068mb 260 18	250 78 10750m
LARKHILL 03743	14330m 310 87 17370m 330 38	330 110 11800m 310 108 10550m

NOTES ON THE AEROLOGICAL SITUATION

The low centre over northern Canada is moving southeast and developing while the trough over Newfoundland sharpens and moves east. The high area from Spain towards the West Indies is persisting with a trough deepening on its northern flank, near Iceland. The northwesterly jet across the British Isles is increasing with the low over southern Sweden moving slowly east.

AVERAGE AND EXTREME VALUES 1951-55 AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

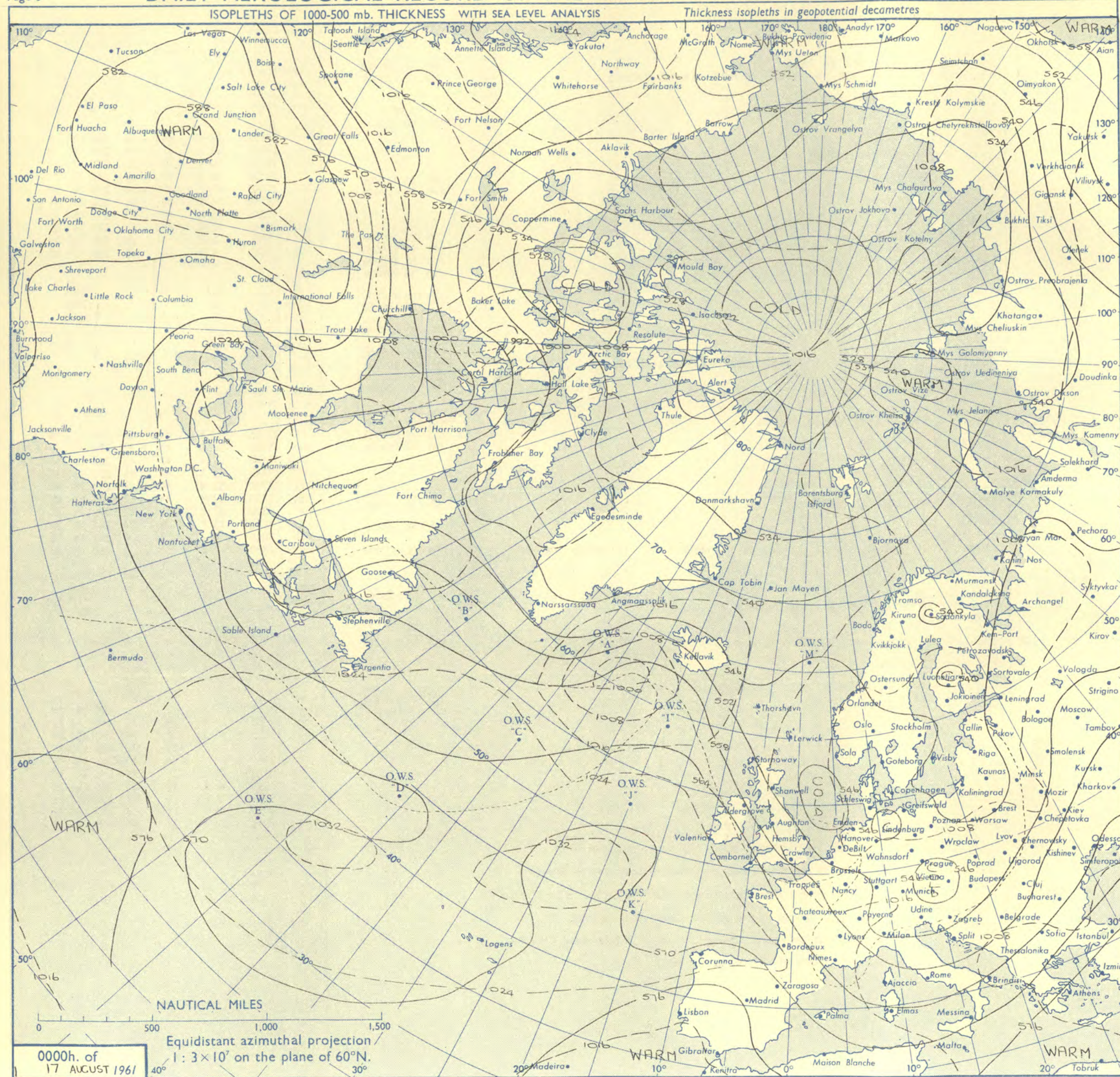
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

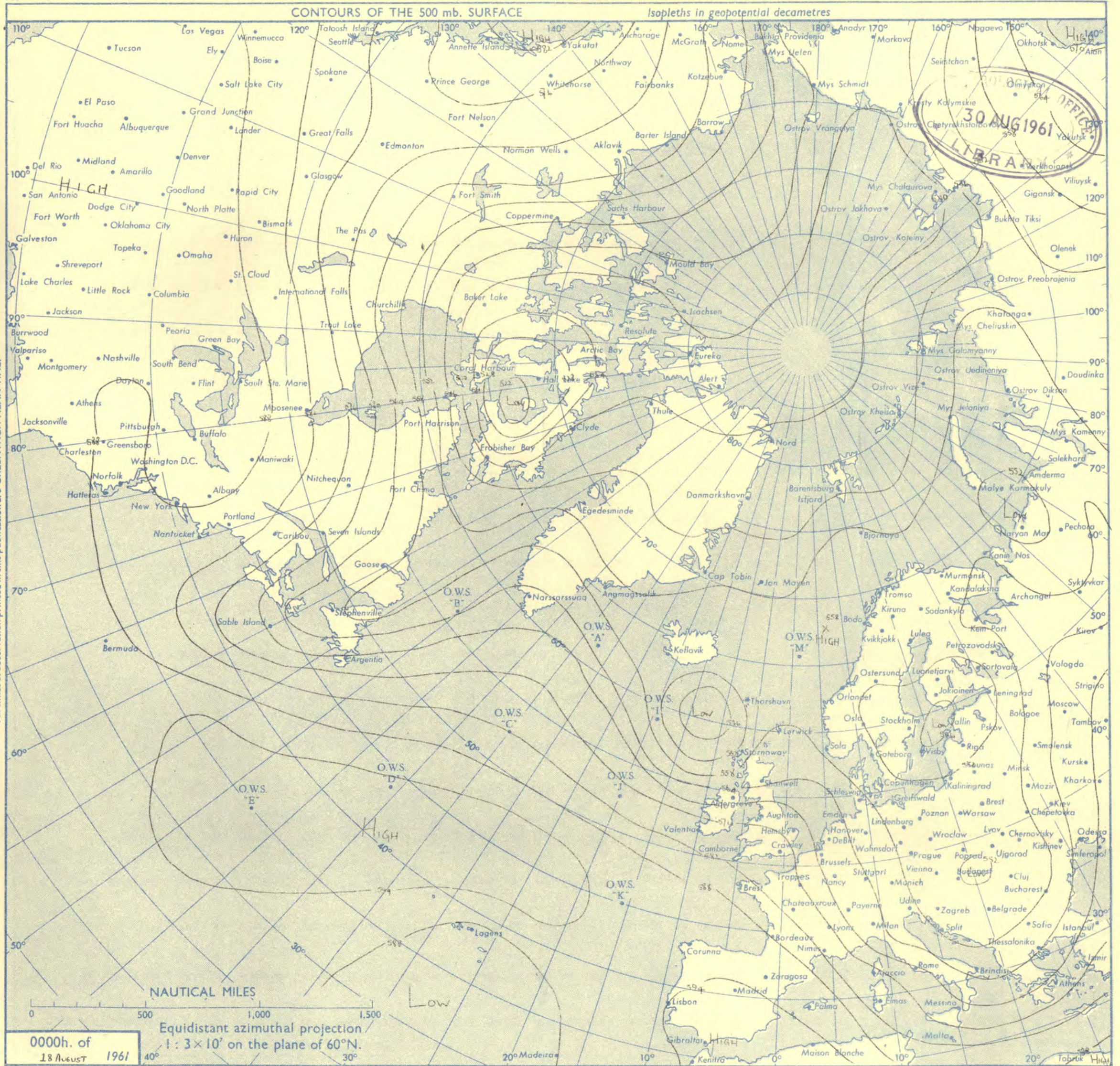
Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	102	-68.1	...	72	...	-75
Lower	(195)	(-59.1)	...	...	...	...

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

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

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





HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

13 August

1961

STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb		150mb		100mb		70mb		50mb		30mb	
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C		
LERWICK 03005	172330	082	11	09	060	++	++	1400	08	04	2967	00	03	5577	16	23	7217	28	39	9217	44	++	11857	52	13734	51	16384	50	18711	50				
	181133	082	13	13	006	++	++	1339	05	03	2906	03	05	5491	19	34	7121	30	46	9121	41	++	11835	45	13753	47	16433	49	18783	49	20988	49		
STORNOWAY 03026	172330	013	12	11	037	12	10	1380	05	03	2945	02	09	5566	13	++	7222	26	++	9242	41	++	11928	49	13808	50	16453	51	18782	50	20978	49		
	181130	013	13	12	009	++	++	1331	03	01	2881	05	07	5446	21	26	7056	32	37	9040	38	++	11812	41										
SHANWELL 03170	172330	005	14	13	064	14	12	1422	06	04	3006	02	19	5651	14	38	7301	28	45	9308	42	++	11958	55	13800	54	16415	51	18725	53	20905	52		
	181130	005	18	10	011	18	10	1361	05	02	2915	05	09	5492	20	22	7115	30	36	9100	43	++	11827	45	13740	46	16398	50	18726	50				
ALDERGROVE 03917	172330	077	13	10	101	13	10	1448	04	03	3035	04	19	5697	12	28	7357	26	37	9377	41	++	12023	54	13870	55	16486	53	18786	52	20968	51	24309	49
	181135	077	14	11	064	++	++	1406	04	03	2966	02	07	5569	16	27	7205	29	39	9209	41	++	11902	47	13807	47	16462	50	18792	50	20989	49	24371	45
AUGHTON 03322	172330	056	16	14	126	16	13	1490	09	07	3074	01	02	5720	12	29	7386	25	39	9411	41	++	12047	58	13891	53	16507	53						
	181130	056	14	10	091	13	09	1430	03	00	2988	01	11	5630	13	45	7286	26	++	9301	41	++	11954	53	13829	48	16480	48						
HEMSBY 03496	172330	012	13	11	139	16	12	1498	06	05	3079	01	09	5708	14	22	7365	25	39	9389	40	++	12055	55	13891	53	16508	53						
	181130	012	19	11	086	18	10	1448	06	04	3030	03	21	5675	14	25	7331	26	38	9355	42	++	11996	56	13852	50	16482	51	18802	51	20985	50		
CRAWLEY 03774	172333	144	12	10	162	12	10	1526	10	07	3122	03	11	5775	12	26	7445	24	39	9473	41	++	12112	59	13924	56	16508	56	18791	54				
	181130	144	19	11	118	++	++	1481	06	01	3068	02	13	5709	13	32	7365	26	40	9381	42	++	12020	55	13682	54	16464	53	18754	54				
CAMBORNE 03808	172330	088	15	15	185	14	13	1548	13	05	3149	04	16	5805	12	26	7479	23	40	9523	39	48	12165	59	13970	59	16518	58	18775	55				
	181130	088	17	13	159	15	11	1506	09	01	3101	04	08	5749	13	24	7415	24	38	9449	40	++	12103	57	13938	55	16519	56						
VALENTIA 03953	180000	014	14	12	172	13	11	1520	06	00	3114	04	19	5780	11	33	7460	23	43	9500	39	++	12160	57	13980	57								
	181200	014	14	10	168	13	09	1505	01	03	3085	03	16	5730	13	30	7390	28	42	9400	41	++	12040	58	13880	53	16480	55						
Ocean Weather Station 'I' 59°00'N 19°00'W	180000		13	11	022	12	10	1361	04	03	2926	03	04	5530	17	20	7160	28	32	9160	42	++	11890	43	13800	47	16470	50	18800	51	21000	49		
	181200		12	09	123	10	08	1451	04	04	3019	00	28	5640	15	33	7280	29	46	9270	46	++	11890	53	13770	50	16420	50	18740	51				
Ocean Weather Station 'J' 52°30'N 20°00'W	180000		13	10	212	11	11	1560	08	01	3149	03	02	5810	11	18	7480	23	33	9520	38	45	12190	53	11540	54	16650	53	18960	51	21140	50		
	181200		13	08	232	11	08	1580	08	08	3177	04	08	5820	14	23	7480	25	36	9510	38	54	12180	55	14030	52	16660	52	18980	49	21190	48	24590	44

STATION	ww N _h C _L hC _M C _H	PRESSURE																					TROPOPAUSE			
		MSL	Surf.	0°C level																			mb	m	°C	
LERWICK 03005	21 855++	007	997	744 702	955 08 06 892 06 03 858 08 04- 782 ++ 08- 748 ++ 09- 738 01- 06- 730 ++ 03- 702 00 03- 575 ++ 11- 551 ++ 22- 535 ++ 20- 520 ++ 23- 460 21- 27- 443 22- 29- 415 ++ 38- 320 40- 48- 282 47- 250 52- 246 53- 211 54- 164 49- 147 51- 100 50- 070 50-																			246	10530	53-
	51 870++	999	990	743	983 12 10 710 02- 04- 625 09- 12- 615 08- 11- 600 11- 14- 575 ++ 24- 548 ++ 30- 522 ++ 29- 485 20- 36- 354 35- 50- 305 41- 291 41- 267 45- 250 46- 182 44- 100 49- 033 49-																			267	09910	45-
STORNOWAY 03026	01 757++	004	003	744	852 ++ 03 797 01 00 778 02 00 757 01 02- 722 02- 03- 684 ++ 17- 650 04- 23- 630 05- 14- 616 05- 22- 525 ++ 43- 492 14- ++ 393 27- ++ 279 44- 250 48- 235 50- 065 51- 045 48-																			235	10870	50-
	61 6552+	999	997	795	985 11 09 804 00 02- 679 06- 08- 580 ++ 18- 454 27- 32- 439 27- 32- 349 ++ 46- 347 40- 306 38- 250 40- 200 41-																			347	08030	40-
SHANWELL 03170	02 35500	008	007	649	923 ++ 07 909 10 07 822 04 03 765 05 04- 743 ++ 10- 652 ++ 30- 611 02- 36- 435 ++ 41- 358 34- 50- 344 34- 277 46- 250 49- 209 57- 199 55- 186 57- 177 54- 100 51- 055 53- 038 49-																			209	11660	57-
	02 6853+	001	001	777	990 15 07 938 ++ 07 885 06 03 741 03- 05- 712 ++ 06- 697 ++ 09- 612 ++ 12- 571 13- 16- 484 22- 24- 458 ++ 29- 418 27- 33- 334 40- 46- 306 44- 294 42- 250 44- 218 43- 186 47- 173 45- 147 46- 128 51- 100 50- 068 50-																			306	08970	44-
ALDERGROVE 03917	01 755++	012	003	631	944 09 07 914 09 06 843 ++ 03 835 03 01 806 06 01- 742 06 13- 720 ++ 21- 655 01 16- 609 01- 20- 550 06- 23- 372 30- 41- 327 36- 46- 306 ++ 50- 285 44- 250 51- 239 53- 212 56- 191 53- 110 53- 084 54- 030 49-																			212	11620	56-
	60 854++	008	998	762	985 12 10 940 08 06 757 00 03- 746 01- 03- 724 01- 04- 693 ++ 07- 686 02- 09- 680 ++ 11- 618 09- 13- 606 08- 15- 542 ++ 20- 510 ++ 26- 455 22- 32- 355 35- 45- 324 37- 48- 261 47- 250 48- 221 49- 153 46- 118 51- 044 48- 030 45-																			261	10160	47-
AUGHTON 03322	60 5557+	015	008	708 635	985 ++ 13 924 ++ 11 823 08 06 733 ++ 01- 700 ++ 02- 683 02- 09- 663 00 23- 655 ++ 13- 644 01 11- 576 05- 21- 519 10- 26- 343 34- 47- 303 40- ++ 250 51- 219 57- 199 58- 174- 53- 108 52- 097 54-																			219	11470	57-
	25 884++	011	004	796	934 07 05 779 01- 05- 727 ++ 05- 713 00 07- 701 ++ 11- 673 03- 15- 632 01- 28- 581 06- 40- 555 07- 40- 458 19- 50- 309 40- ++ 268 48- 250 50- 223 54- 143 48- 124 51- 114 52- 100 48- 072 50-																			223	11240	54-
HEMSBY 03496	02 00900	017	015	685	999 16 12 945 ++ 08 899 09 08 821 ++ 05 798 05 03 794 06 04 752 03 02 719 ++ 01- 680 ++ 15- 625 ++ 19- 610 06- 10- 590 07- 12- 570 ++ 23- 522 12- 30- 500 14- 22- 460 18- 30- 435 21- 31- 395 26- 40- 322 37- 49- 250 49- 201 55- 180 58- 131 52- 090 53-																			180	12700	58-
	02 4846+	010	008	658	988 16 09 775 01 00 764 06 04- 762 ++ 06- 724 ++ 25- 622 ++ 18- 600 ++ 15- 570 06- 18- 432 22- 33- 336 35- 49- 250 51- 215 57- 147 49- 130 53- 042 51-																			215	11530	57-
CRAWLEY 03774	01 15500	020	002	663	991 14 12 959 ++ 12 943 14 09 910 11 08 892 ++ 00 872 ++ 04 862 ++ 08 850 ++ 07 831 10 04 800 ++ 04 791 ++ 01 758 ++ 02 736 ++ 01 730 03 02- 716 ++ 14- 706 04 11- 692 ++ 12- 672 ++ 04- 640 03- 06- 607 03- 19- 578 ++ 19- 545 ++ 24- 510 11- 24- 417 21- 36- 317 37- 49- 250 50- 206 59- 177 60- 140 55- 098 56- 060 52-																			206	11940	59-
	02 55500	014	997	651	988 17 05 826 04 00 812 07 07- 790 09 18- 770 ++ 29- 683 01 13- 666 01 15- 505 13- 32- 359 32- 47- 250 51- 223 55- 060 54-																			223	11310	55-
CAMBORNE 03808	51 860++	023	012	630	985 13 12 939 14 11 872 08 06 858 13 05 842 ++ 05 793 10 09- 755 ++ 07- 719 05 12- 686 04 19- 489 13- 27- 466 14- 29- 419 ++ 37- 293 40- 48- 250 50- 214 59- 090 58- 065 54-																			214	11710	59-
	02 35500	011	008	650	003 15 11 973 11 08 887 05 03 869 05 03 854 08 01 834 09 06- 772 08 15- 746 ++ 08- 685 03- 10- 565 08- 21- 475 ++ 26- 444 18- 31- 311 37- 50- 250 49- 219 56- 203 57- 184 54- 074 55-																			203	12010	57-
VALENTIA 03953	60 864++	020	019	630	999 13 11 862 04 03 829 09 12- 776 08 20- 744 08 19- 708 04 19- 691 04 20- 476 13- 34- 350 31- 47- 326 33- 48- 282 43- 250 49- 230 53- 207 56- 180 58- 172 57- 122 57-																			180	12800	58-
	02 885++	020	018	630	018 14 10 930 07 04 851 01 01- 835 07 01 644 01 18- 493 14- 30- 402 27- 40- 346 35- 48- 326 35- 48- 250 51- 223 58- 205 59- 159 52- 095 55-																			205	11900	59-
Ocean Weather Station 'I' 59°00'N 19°00'W	06 863++	003	003	747	918 06 05 849 ++ 03 800 02 01 778 02 01 591 ++ 11- 509 16- 19- 434 25- 28- 371 32- 36- 331 39- 43- 319 40- 44- 284 45- 250 44- 245 43- 193 43- 164 47- 065 51-																			284	09500	45-
	02 885++	015	015	705	015 12 09 989 08 06 890 03 02 862 05 01- 842 ++ 06- 831 04 06- 794 04 10- 736 02 25- 695 01- 30- 642 03- 37- 619 ++ 39- 550 10- 29- 520 ++ 34- 499 ++ 33- 452 21- 40- 370 34- 50- 308 45- 277 50- 250 53- 238 55- 201 54- 183 50- 171 47- 164 49- 068 51-																			238	10800	55-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 854++	025	025	650	995 11 11 930 06 06 890 09 02 740 05 00 737 06 01- 693 03 02- 650 00 03- 469 14- 22- 400 23- 33- 292 40- 46- 250 47- 223 54- 157 55- 132 53- 050 51-																			223	11500	54-
	855++	027	027	650	027 13 08 945 07 07 916 09 02- 900 09 04- 850 08 08- 800 08 03- 765 07 05- 688 03 08- 590 05- 13- 538 10- 21- 442 21- 28- 400 25- 36- 294 40- 55- 250 47- 226 52- 203 55- 170 52- 084 52- 077 50- 050 48- 020 40- 014 35-																			203	12100	55-

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	°C °C	°C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
181407	58°2'N 26°7'W	021 014 732	061 11 05	171	08 03	042 07 03-	1509 05 10	2003 03 03-	01 01-	3075 01- 03-	05- 12-	4289 07- 17-	13- 23-	5678 18- 23-
Cloud :— 5/8 St. 1000 to 1300ft, 6/8 Cl. 25000ft to TNG. 6/8 Ac. 10000 to 12000ft. 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	°C °C	°C °C	°C °C	m °C °C	°C °C	m °C °C	°C °C	m °C °C
181530	60°8'N 20°8'W	015 008 728	061 10 04	122	05 05	988 07 07	1454 04 12-	1945 03 22-	01 05-	3018 02- 15-	05- 14-	4231 08- 18-	13- 25-	5621 18- 27-
Cloud :— 7/8 Sc 1900 to 3000ft. 5/8 Cl 25000ft to TNG. Inversion Levels :— 950mb to 900mb 5°C to 6½°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	080mb 330 11 22500m 030 06 040mb 310 03 17700m 330 13 10620/1 11950/5	
STORNOWAY 03026	212mb 310 07 23400m 290 03 21300/9	250 71 07960m
SHANWELL 03170	042mb 030 11 04700/0 25200m 050 04 075mb 330 15	280 68 09600m 260 66 08700m
ALDERGROVE 03917	080mb 330 15 P25900m 140 04 04820m 270 68 17300m 290 13 11010/1 12480/1 12950/1 329mb 280 81 187mb 290 40 09350/1	270 69 10720m 270 70 10780m 280 96 10160m 300 93 08130m
AUGHTON 03322	080mb 280 14 11100m 280 62 10830/1 11370/1	300 68 10720m 270 68 06460m 280 99 09530m
HEMSBY 03496	22800m 340 02 04350/0 14280/1	320 80 11120m 280 76 12900m
CRAWLEY 03774	14100m 310 35 12350/1 13480/1	310 70 10700m 290 64 12310m 280 68 09730m
CAMBORNE 03808	17100m 300 21 077mb 280 19 20100m 320 09 11450/1	280 62 12830m 280 63 13630m 270 63 11200m
VALENTIA 03953		280 64 08720m
Ocean Weather Station 'I' 59°00'N 19°00'W	056mb 280 07 17100m 310 72 25200m 000 00 08800/0 10850/1 15300m 300 30 11550/1	300 72 09290m 320 96 10259m 300 66 09600m
Ocean Weather Station 'J' 52°30'N 20°00'W	556mb 290 30 240mb 310 54 132mb 290 40 056mb 290 04 124mb 280 20 640mb 320 28 538mb 300 20 240mb 300 65 062mb 000 00 051mb 000 00 149mb 310 39	280 61 09000m 300 65 11000m
LARKHILL 03743		280 66 12460m

NOTES ON THE AEROLOGICAL SITUATION

The low over northern Canada is moving slowly southeast along the northern flank of a broad ridge which covers the United States. The trough over Labrador is moving out over the Atlantic while another trough over Greenland is also moving east. The high from the Bay of Biscay towards Bermuda remains almost stationary but the ridge towards Iceland is moving east. The down-stream low which has developed from the trough near Iceland yesterday is moving southeast towards the North Sea while the low area over eastern Russia is almost stationary.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

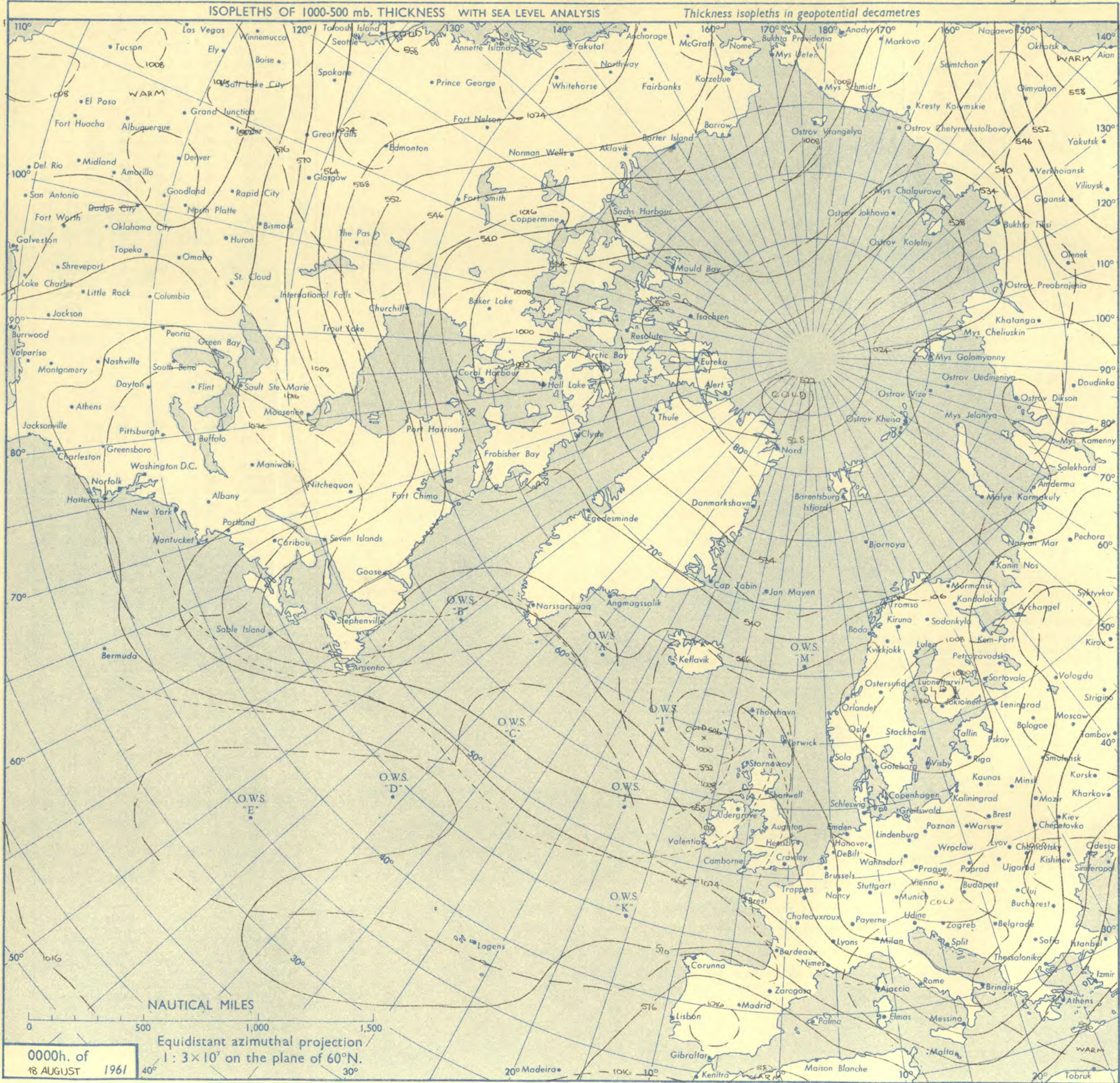
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropo- pause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb.	°C	mb.	mb.	°C	°C
Lower	(195)	(-59.1)	...	...	...	...

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

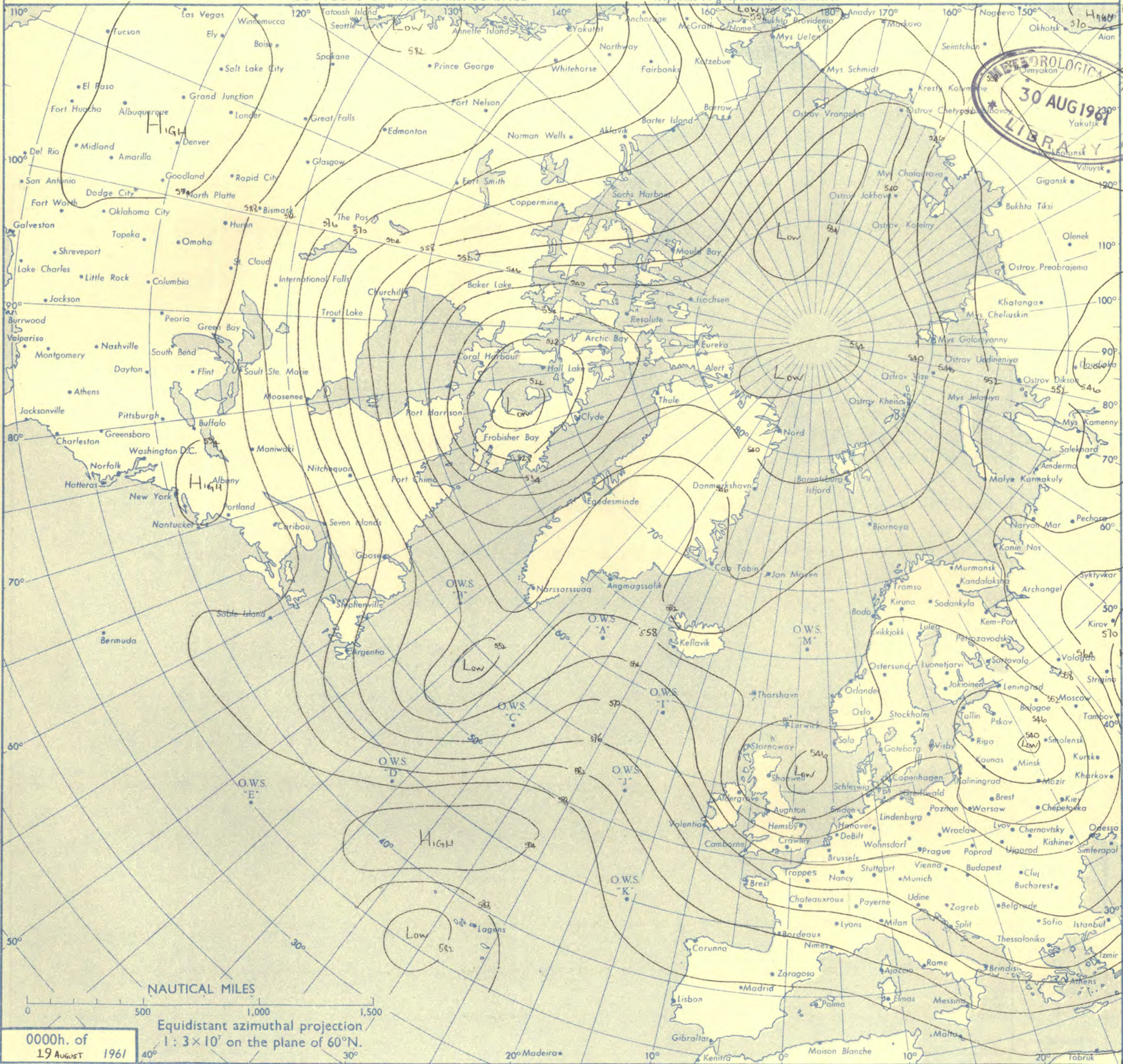
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



0000h. of
19 AUGUST 1961

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

STATION	YYGGgg	SURFACE		1000mb		850mb		700mb		500mb		400mb		300mb		200mb		150mb		100mb		70mb		50mb		30mb		
		gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	
LERWICK 03005	182330	082	12 12	026	+++ ++	1368	05 03	2931	02- 08-	5519	19- 27-	7151	29- 39-	9146	44- ++	11799	49- 13693	49-										
	191130	082	13 11	081	13 11	1427	05 02	2982	04- 11-	5571	17- 25-	7203	30- 37-	9187	46- ++	11810	51- 13689	50- 16344	49- 18687	49-								
STORNOWAY 03026	182340	013	12 12	045	12 10	1388	04 02	2942	05- 09-	5514	20- 50-	7125	33- ++	9090	47- ++	11769	47- 13655	51- 16289	51-									
	191130	013	13 11	120	11 09	1463	05 05	3029	01- 02-	5654	15- 25-	7299	28- 37-	9303	41- ++	11975	55- 13830	51- 16472	49- 18814	48- 21032	49- 24404	49-						
SHANWELL 03170	182330	005	14 09	009	14 09	1354	05 01	2908	05- 07-	5476	21- 29-	7087	33- 42-	9047	44- ++	11796	43- 13712	48- 16374	50- 18699	50- 20887	50-							
	191130	005	17 11	080	15 06	1428	04 02	2999	00 11-	5602	16- 28-	7247	27- 42-	9247	44- ++	11875	54- 13737	53- 16362	52- 18670	52- 20848	53-							
ALDERGROVE 03917	182330	077	13 09	063	++ ++	1406	04 03	2960	05- 10-	5549	18- 38-	7178	31- 49-	9164	44- ++	11863	45- 13767	48- 16419	52-									
	191130	077	14 12	120	13 11	1465	09 03	3049	01 08-	5670	15- 34-	7315	28- 46-	9335	39- ++	12005	57- 13854	51- 16585	51- 18814	51- 21007	51-							
AUGHTON 03322	182330	056	13 12	048	++ ++	1394	05 05	2955	04- 05-	5537	19- 33-	7162	30- 42-	9160	41- ++	11912	42- 13849	42-										
	191130	056	16 12	089	15 11	1438	05 01-	2988	05- 11-	5574	17- 31-	7209	29- 44-	9204	43- ++	11859	49- 13738	52- 16363	52- 18673	53-								
HEMSBY 03496	182330	012	15 09	047	14 10	1393	04 03	2954	03- 04-	5547	18- 21-	7175	30- 34-	9154	45- ++	11834	47- 13723	51- 16369	51-									
	191130	012	14 13	037	13 11	1380	05 03	2935	04- 09-	5504	21- 29-	7112	33- 41-	9088	41- ++	11838	42- 13768	46- 16435	49- 18769	50-								
CRAWLEY 03774	182330	144	13 10	095	++ ++	1443	05 03	3015	01- 09-	5636	15- 35-	7279	27- ++	9284	43- ++	11930	50- 13812	50- 16453	51-									
	191130	144	15 09	081	++ ++	1429	04 03	2983	04- 05-	5559	19- 31-	7173	33- 45-	9145	41- ++	11865	47-											
CAMBORNE 03808	182330	088	14 12	142	14 12	1485	04 02	3059	02 20-	5701	14- 30-	7346	28- 42-	9346	44- ++	11978	53- 13838	53- 18757	53- 20932	50-								
	191130	088	15 11	147	14 10	1484	03 00	3050	00 12-	5676	16- 29-	7314	29- 41-	9300	44- ++	11972	51- 13852	50- 16481	50- 18799	51- 20998	49-							
VALENTIA 03953	182330	014	13 10	165	12 09	1503	02 00	3079	03 15-	5730	15- 28-	7370	29- 41-	9360	44- ++	12000	55- 13850	52- 16480	53- 18770	52-								
	191130	014	14 10	184	12 08	1527	08 05-	3118	03 11-	5760	12- 29-	7440	23- 38-	9490	37- 48-	12160	58- 13950	57- 16530	55- 18820	53- 20980	53-							
Ocean Weather Station 'I' 59°00'N 19°00'W	190000		11 08	166	11 07	1499	05 01-	3067	00 ++	5690	16- 27-	7330	28- 44-	9330	42- ++	11980	58- 13810	55- 16410	51 18720	52								
	191200		12 10	131	10 08	1466	03 01	3036	01- 03-	5670	14- 16-	7330	24- 27-	9380	37- 40-	12050	58- 13860	55- 16470	53- 18780	50-								
Ocean Weather Station 'J' 52°30'N 20°00'W	190000		13 09	231	09 09	1580	09 01	3165	00 05-	5790	14- 18-	7450	23- 28-	9480	40- ++	12110	61- 13900	59- 16460	56- 18920	54- 20900	52-							
	191200		13 13	194	13 12	1560	11 11	3167	02 09-	5840	08- 17-	7540	19- 29-	9620	33- 45-	12340	53- 14150	60- 16700	55- 19000	51- 21190	49- 24570	45-						

STATION	ww N _h C _L hC _M C _H	PRESSURE																										TROPOPAUSE								
		MSL	Surf.	0°C level																								mb	m	°C						
LERWICK 03005	47 9+0++	003	993	729	980	++	10	840	04	02	823	05	02	803	++	01-	598	++	k6-	561	13-	17-	537	++	22-	504	19-	25-	493	++	30-	151	22-	244	10520	53-
	02 684++	010	000	771	986	11	08	961	10	08	951	++	09	940	12	07	881	++	04	820	02	04-	780	++	05-	719	++	13-	695	++	11-	613	++	14-	242	10600	56-
STORNOWAY 03026	80 884++	006	004	771	998	++	10	769	00	03-	660	++	11-	636	10-	18-	627	++	25-	620	09-	25-	588	++	26-	565	++	46-	535	16-	47-	373	304	09000	47-	
	01 755++	014	013	708	961	08	06	927	09	08	850	++	05	834	++	03	783	01	01-	759	04	02	668	03-	04-	650	02-	09-	546	10-	19-	361	33-	192	12230	56-
SHANWELL 03170	02 654++	001	001	777	988	13	07	876	05	02	859	05	01	830	++	00	790	01	01-	680	++	08-	597	++	17-	570	15-	19-	540	17-	22-	498	++	321	08580	45-
	02 525++	009	009	700	003	16	07	857	++	03	845	04	02	827	05	01-	820	++	03-	774	02	05-	734	02	08-	683	01-	11-	582	11-	15-	538	++	233	10900	56-
ALDERGROVE 03917	03 756++	007	998	778	964	10	08	827	++	02	804	++	02-	766	++	03-	713	++	08-	680	++	13-	646	08-	13-	636	++	15-	620	++	16-	606	++	283	09530	47-
	25 784++	014	005	689	995	12	10	890	07	07	847	09	02	828	++	02-	727	03	05-	675	++	10-	675	++	10-	636	05-	12-	599	07-	13-	565	09-	190	12320	58-
AUGHTON 03322	80 885++	006	999	772	901	07	07	755	01-	02-	720	02-	03-	662	08-	09-	629	09-	11-	577	++	15-	538	++	28-	513	++	35-	477	21-	31-	435	313	08860	41-	
	02 425++	011	004	789	995	++	09	984	13	09	945	10	08	930	09	05	884	06	02	845	05	01-	680	06-	12-	654	06-	14-	613	08-	17-	571	13-	223	11150	53-
HEMSBY 03496	02 855++	006	004	762	896	07	05	580	++	13-	541	++	17-	448	23-	28-	417	++	32-	342	40-	46-	299	45-	250	49-	244	49-	185	47-	150	51-	244	10510	49-	
	21 754++	004	003	781	995	12	10	827	03	00	783	++	05-	756	02-	05-	660	07-	15-	605	11-	16-	558	15-	23-	350	40-	49-	343	41-	250	43-	343	08170	41-	
CRAWLEY 03774	02 15700	011	994	710	993	++	07	919	++	07	808	02	01	798	++	01	784	04	00	780	++	01-	615	++	19-	592	++	18-	557	09-	26-	545	++	228	11080	54-
	25 785++	010	993	781	991	++	06	831	03	03	720	03-	03-	613	11-	15-	594	++	17-	543	15-	23-	482	++	34-	388	35-	47-	344	42-	296	41-	344	08200	42-	
CAMBORNE 03808	50 862++	017	006	658	809	01	02-	792	05	16-	555	07-	25-	440	22-	37-	327	39-	49-	250	53-	246	54-	127	52-	093	55-	050	50-					246	10650	54-
	02 785++	018	007	670	950	08	06	936	07	05	810	01	02-	781	04	04-	770	++	07-	715	00	11-	682	01	17-	625	++	24-	549	++	20-	521	13-	222	11300	52-
VALENTIA 03953	02 884++	020	018	660	965	11	07	857	02	01	822	06	01	752	04	11-	682	02	15-	545	09-	22-	399	29-	41-	306	43-	250	51-	215	55-	157	215	11500	55-	
	25 884++	022	020	635	956	09	06	877	05	03	846	08	00	819	08	11-	785	08	06-	694	03	11-	659	02	12-	524	12-	24-	497	12-	30-	414	21-	172	13100	65-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 755++	020	020	701	985	++	06	925	++	03	919	04	01	898	07	04-	872	05	00	842	05	01-	808	03	06-	781	03	23-	753	03	33-	625	04-	196	12100	58-
	61 3542+	016	016	730	992	++	08	934	07	05	914	++	03	895	06	03	838	04	03	787	02	01	763	02	01	715	01-	03-	669	01-	03-	622	05-	07-	181	12700	62-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 855++	027	027	700	000	09	09	975	08	08	945	09	03	924	09	05-	870	10	00	798	05	00	644	04-	07-	602	07-	15-	587	07-	20-	537	12-	166	13500	60-
	21 6712+	022	022	730	950	13	13	932	14	14	889	11	11	771	07	07	741	04	03	730	04	00	695	04	00	622	00	05-	548	06-	12-	533	06-	13-	166	13500	60-

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	137mb 350 10 25200m 150 08 00800/2 02230/5 01400/2 060mb 340 04 13800m 300 32 07300/0 08550/0 09420/0 11400/1 11950/1 12520/1	320 120 11120m
STORNOWAY 03026	082mb 330 11 19600m 360 07 345mb 330 43 035mb 030 03 22900m 290 03 09470/0 12080/1 13900/1	340 120 11100m 320 105 10730m
SHANWELL 03170	14500m 350 19 10700/5 12600m 340 69 17700m 300 13 09370/0 09810/0 11740/1 12170/1 12970/1	340 114 11000m
ALDERGROVE 03917	090mb 320 18 14000m 320 33 11210/1 325mb 360 72 185mb 350 65 12220/1 12750/7 13800/1	320 88 09110m 350 68 09210m 360 126 11850m 340 90 10880m
AUGHTON 03322	19200m 350 05 09290/0 09680/0 12060/1 12660/1 13100/1	290 77 09640m 360 67 10330m 360 110 10910m
HEMSBY 03496	079mb 290 16 077mb 340 13	270 85 09430m 360 69 10040m
CRAWLEY 03774	075mb 300 06 P19800m 330 08 22500m 140 04	260 72 10540m 280 68 08230m 360 64 09600m
CAMBORNE 03808	056mb 320 06 18000m 340 13 10850/1 13100m 350 69 18900m 280 10 06040/0 12110/1 13100/1 14600/1	320 61 10670m 340 87 09770m 010 108 11300m
VALENTIA 03953		350 114 11520m
Ocean Weather Station 'I' 59°00'N 19°00'W	329mb 310 48 176mb 300 60 P21600m 000 00 09900m 280 79 13200m 290 86 22500m 000 00 08500/0 09800/0 13380/1 13200m 290 69 14100m 280 30 13200/1 13800/1 17100m 260 20 09620/2 10300/0 10750/0 12100/1 13000/1 13600/1	290 132 11130m 300 120 11880m 280 98 12620m 240 113 11980m
Ocean Weather Station 'J' 52°30'N 20°00'W	224mb 300 80 092mb 300 15 117mb 280 35 670mb 250 20 278mb 270 44 090mb 260 20 215mb 230 61 123mb 230 67	300 80 11400m
LARKHILL 03743		300 78 06600m

NOTES ON THE AEROLOGICAL SITUATION

The Baffin Land vortex remains deep and slow-moving.
Downstream perturbations of the westerlies continue
mobile.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Max.	Extreme Min.	Wind* V _R	V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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 Max.	Extreme Min.	Wind* V _R	V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

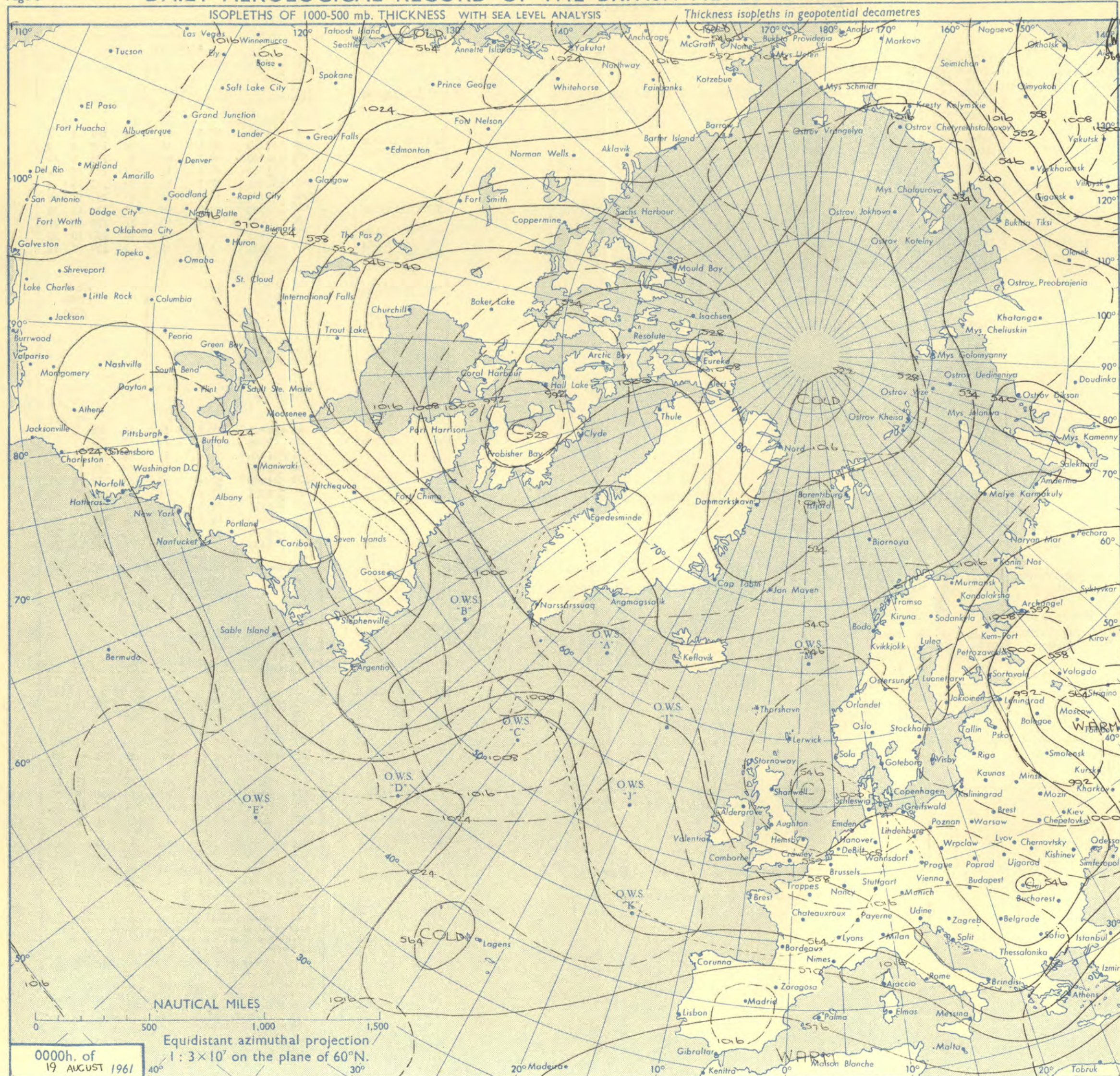
Press. Level	Average Height	Average Temp.	Extreme Max.	Extreme Min.	Wind* V _R	V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

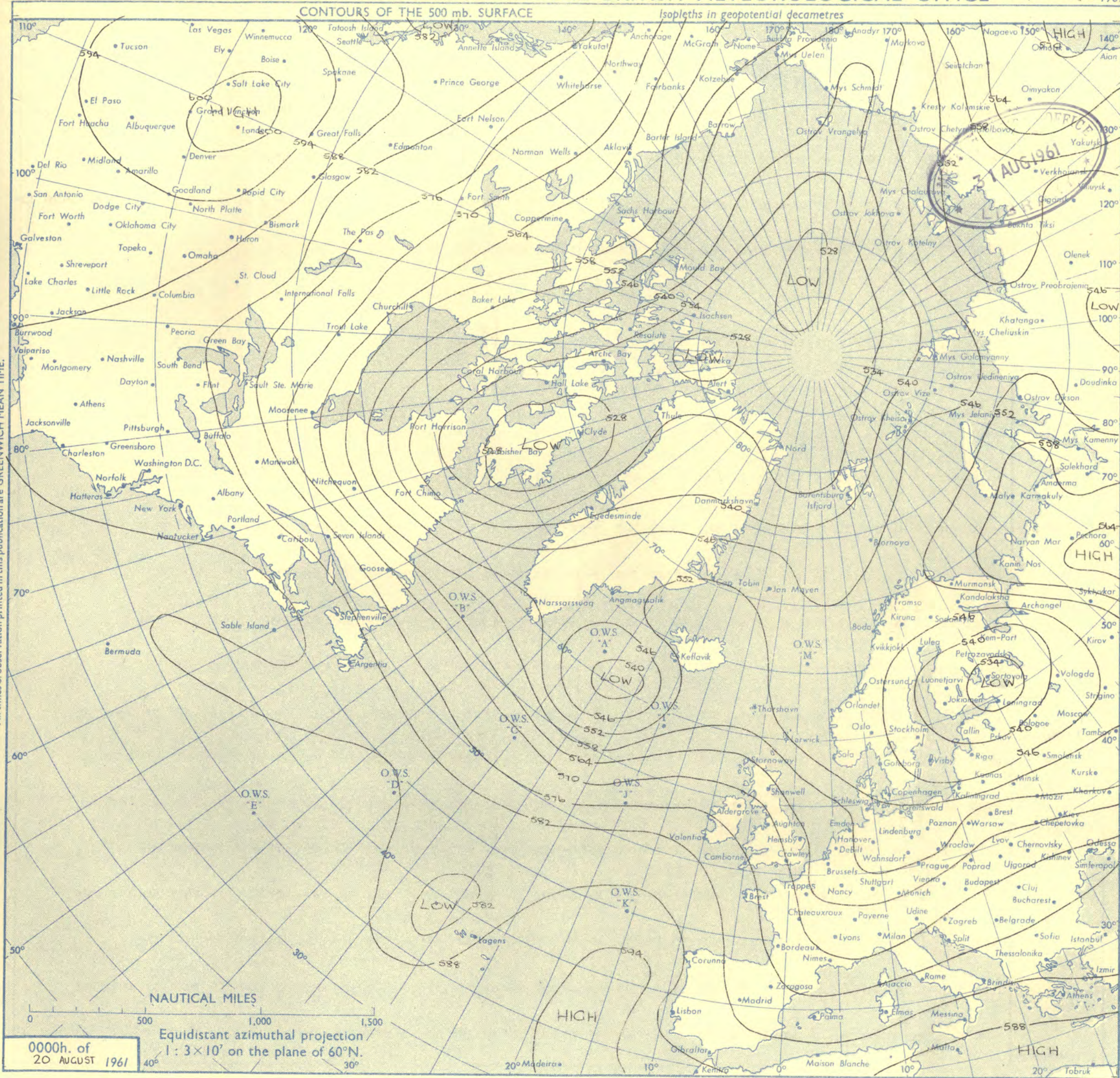
Tropo- pause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	102	-68.1	...	72	...	-75
Lower	(195)	(-59.1)	...	...	...	...

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

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

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





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	192330	082	11	10	079	++	++	1413	02	02	2952	06	10	5521	21	41	7155	27	++	9195	39	++	11873	55	13743	49	16402	49	18743	49	20952	48								
	201203	082	12	10	045	++	++	1382	02	03	2928	04	17	5509	19	24	7139	29	35	9129	45	++	11777	49	13668	48	16343	48	18688	50										
STORNOWAY 03026	192330	013	12	11	120	11	09	1457	03	02	3021	03	16	5642	13	16	7307	24	28	9343	40	45	12013	56	13842	57	16448	51	18765	51										
	201130	013	14	12	031	13	11	1370	05	01	2938	01	15	5553	16	27	7200	27	36	9210	43	++	11848	52	13729	49	16389	49	18734	48	20958	46	24348	47						
SHANWELL 03170	192330	005	13	13	116	13	11	1463	05	03	3028	01	08	5638	15	19	7298	23	30	9339	39	45	12012	57	13805	58														
	201130	005	13	11	070	11	08	1407	06	04	2984	00	08	5600	16	23	7255	25	31	9280	41	++	11920	53	13772	53	16401	51	18721	50										
ALDERGROVE 03917	192330	077	12	10	148	11	09	1487	09	06	3071	02	15	5710	12	16	7389	21	28	9450	36	42	12144	56	13934	63	16479	55	18772	52	20949	52	24273	50						
	201130	077	16	14	093	16	14	1451	08	06	3033	02	23	5679	13	25	7344	25	36	9371	41	++	12022	56	13873	52	16479	53	18782	53	20956	52								
AUGHTON 03322	192330	056	14	11	144	12	09	1487	06	02	3072	02	07	5707	13	37	7376	22	28	9430	37	44	12110	56																
	201130	056	15	10	134	13	09	1480	07	05	3063	02	04	5712	13	32	7381	23	34	9416	41	++	12071	58	13891	54	16488	53	18785	52	20964	51								
HEMSBY 03496	192330	012	12	10	117	13	11	1461	05	01	3034	01	07	5647	15	30	7298	26	39	9322	39	47	12001	57	13804	55	16391	55												
	201130	012	17	11	133	14	10	1477	07	01	3058	02	10	5699	13	18	7363	25	31	9398	40	49	12045	59	13854	58														
CRAWLEY 03774	200025	144	12	10	144	12	10	1493	05	02	3063	01	14	5692	14	39	7347	26	43	9382	38	48	12056	57	13847	58														
	201130	144	17	10	162	16	09	1512	07	03	3104	03	08	5756	12	18	7428	23	30	9469	39	45	12119	59	13913	59	16484	55	18773	53										
CAMBORNE 03808	192330	088	15	13	178	14	12	1525	06	04	3121	02	14	5772	12	34	7446	22	33	9501	37	47	12179	58	13954	63	16501	57	18778	54	20948	52								
	201130	088	17	11	187	14	10	1540	09	02	3136	05	07	5797	09	24	7487	21	26	9551	36	42	12248	56	14055	61	16611	55	18887	53	21070	50								
VALENTIA 03953	192330	014	14	11	193	12	09	1546	10	03	3145	04	03	5820	09	15	7510	20	33	9570	36	44	12270	57	14020	69	16540	57	18820	53	20990	53								
	201130	014	16	14	152	15	13	1509	06	04	3092	02	10	5720	14	27	7370	27	40	9390	42	++	12040	56	13860	57	16440	55	18720	55										
Ocean Weather Station 'I' 59°00'N 19°00'W	200000		12	12	001	++	++	1335	03	02	2899	03	14	5500	16	25	7140	28	35	9140	45	++	11820	46	13720	48	16370	50	18700	51	20890	51								
	201200		13	11	080	++	++	1257	03	02	2814	03	12	5410	19	24	7030	30	38	9010	48	++	11720	44	13640	46	16310	50	18650	51										
Ocean Weather Station 'J' 52°30'N 20°00'W	200000		15	14	139	14	13	1500	10	10	3101	04	24	5760	10	36	7450	21	44	9500	36	57	12200	52	14050	52	16670	52	18980	51	21180	48								
	201200		15	13	111	14	11	1470	10	05	3056	00	03	5690	14	22	7340	24	38	9370	39	55	12090	46	13990	48	16640	50	18980	48	21210	45	24660	40						

STATION	ww N _h C _L hC _M C _H	PRESSURE			TROPOPAUSE mb m °C
		MSL	Surf.	0°C level	
LERWICK 03005	02 854++	010	000	810	988 ++ 09 829 01 03- 765 04- 07- 706 05- 09- 677 08- 13- 643 08- 21- 584 13- 31- 528 19- 38- 481 22- 43- 451 190 12190 57- 21- 45- 398 28- 370 27- 250 48- 235 48- 190 57- 179 49- 100 49- 050 48-
	02 784++	005	996	811	967 09 06 900 05 00 817 ++ 03- 782 02- 07- 756 02- 08- 732 ++ 10- 712 ++ 16- 623 08- 25- 586 ++ 29- 524 250 10320 53- ++ 22- 477 22- 27- 424 26- 31- 325 40- 46- 273 50- 250 53- 190 48- 100 48- 053 50-
STORNOWAY 03026	02 856++	014	013	724	002 ++ 09 838 02 01 835 ++ 02 817 04 03- 802 ++ 11- 793 04 12- 770 ++ 15- 738 01 13- 682 05- 17- 667 03- 192 12270 57- 10- 648 ++ 08- 545 10- 12- 426 20- 24- 299 40- 45- 250 47- 231 51- 192 57- 185 53- 160 58- 114 52- 062 50- 160 13450 58-
	02 725++	004	002	726	994 ++ 10 871 04 03 854 05 02 830 04 03- 794 04 08- 715 ++ 16- 675 ++ 14- 655 ++ 20- 635 05- 18- 615 ++ 243 10600 54- 23- 602 05- 19- 505 15- 23- 500 16- 27- 477 17- 29- 445 21- 30- 371 31- 41- 313 40- 46- 250 52- 243 54-
SHANWELL 03170	25 785++	014	013	708	992 ++ 10 985 13 10 918 ++ 06 756 ++ 03- 751 02- 05- 740 ++ 07- 734 02 05- 702 ++ 09- 662 03- 13- 634 ++ 162 13320 63- 20- 548 ++ 21- 520 15- 20- 496 15- 19- 475 18- 21- 448 ++ 22- 420 21- 28- 290 40- 47- 250 48- 190 59- 162 63- 63- 146 57- 135 56-
	21 865++	008	008	694	998 11 08 934 07 05 875 05 03 858 07 05 821 05 03 795 ++ 03 772 05 03 763 04 01 743 ++ 03- 682 ++ 10- 218 11340 56- 674 ++ 18- 640 ++ 25- 588 ++ 32- 576 ++ 19- 555 ++ 17- 505 15- 22- 482 ++ 24- 472 16- 26- 456 ++ 29- 440 ++ 28- 428 23- 29- 350 32- 36- 305 40- 45- 292 42- 259 50- 250 52- 199 53- 060 50-
ALDERGROVE 03917	01 756++	018	009	666	880 ++ 03 874 04 01 861 08 00 850 09 06- 842 ++ 13- 822 ++ 13- 768 ++ 04- 747 ++ 06- 733 ++ 12- 710 ++ 170 13160 63- 11- 692 ++ 20- 676 00 16- 642 ++ 11- 620 ++ 13- 594 ++ 10- 538 ++ 13- 519 11- 15- 492 12- 16- 410 20- 26- 393 22- 30- 377 24- 34- 287 39- 45- 257 45- 250 46- 170 63- 151 63- 128 58- 112 59- 096 54- 030 50-
	15 854++	011	002	647	983 13 11 888 ++ 09 833 07 03 800 07 07- 731 03 18- 705 ++ 23- 645 00 27- 552 ++ 32- 522 10- 23- 482 ++ 198 12080 56- 25- 445 ++ 32- 370 ++ 38- 342 ++ 45- 308 ++ 50- 250 51- 245 52- 198 56- 172 52- 110 56- 098 52- 050 52-
AUGHTON 03322	03 6557+	017	010	672	002 12 09 895 06 04 885 07 05 856 06 02 822 06 01- 785 06 00 725 02 04- 704 02 07- 676 ++ 15- 640 ++ 16- 192 +++++ 58- 578 ++ 28- 473 16- 45- 421 ++ 26- 364 27- 32- 283 40- 46- 250 47- 192 58-
	02 4857+	016	009	669	993 12 08 921 07 05 868 08 06 818 06 04 765 02 01 742 03 06- 738 ++ 09- 688 ++ 02- 631 ++ 05- 619 ++ 10- 197 12170 58- 606 03- 08- 580 05- 10- 568 06- 23- 477 ++ 30- 463 16- 30- 420 21- 30- 412 ++ 33- 322 36- 46- 299 41- 294 40- 250 49- 217 56- 176 59- 136 54- 128 56- 087 53- 035 49-
HEMSBY 03496	01 25600	014	012	723	000 13 11 943 09 07 923 09 07 854 05 01 828 05 02- 803 05 02- 788 05 05- 767 ++ 03- 746 ++ 06- 713 01- 179 12700 61- 06- 682 02- 09- 643 06- 11- 626 06- 20- 587 07- 26- 558 ++ 30- 515 ++ 25- 473 18- 34- 422 23- 38- 349 34- 43- 343 33- 42- 288 40- 47- 250 47- 179 61- 158 59- 151 55- 082 56- Pressure doubtful above 300mb
	02 786++	016	014	674	007 14 09 867 04 02 848 08 02 801 07 08- 792 06 13- 759 ++ 07- 720 ++ 10- 705 ++ 17- 695 01 10- 660 01- 178 12790 60- 06- 586 ++ 08- 537 10- 15- 505 ++ 17- 464 16- 23- 360 ++ 35- 344 32- 40- 298 40- 49- 250 50- 178 60- 133 56- 102 54-
CRAWLEY 03774	02 00900	017	000	691	988 13 10 913 ++ 07 890 ++ 04 843 ++ 02 788 02 04- 772 04 08- 753 ++ 14- 743 ++ 11- 700 01 14- 635 04- (172 12980 63-) 22- 620 05- 15- 603 05- 17- 582 ++ 19- 570 ++ 27- 453 18- 42- 398 26- 43- 372 28- 41- 288 40- 50- 250 47- 172 63- 155 58- 140 57-
	03 785++	019	002	652	935 10 07 858 04 03 843 10 00 826 ++ 09- 803 ++ 08- 779 ++ 14- 690 03 05- 586 05- 12- 533 11- 15- 523 10- 186 12580 61- 14- 510 ++ 17- 345 31- 39- 295 ++ 46- 250 49- 224 55- 186 61- 105 55- 064 52-
CAMBORNE 03808	02 854++	021	011	663	940 ++ 06 853 05 03 837 09 04 810 09 04- 759 06 09- 749 06 13- 623 03- 18- 613 02- 19- 483 ++ 37- 374 25- 159 13580 67- 36- 284 40- 50- 250 47- 197 59- 159 67- 140 60- 104 57- 048 52-
	01 18579	023	012	638	000 14 10 924 08 06 909 ++ 03 896 11 02 884 ++ 00 826 08 04 794 07 05 697 04 08- 625 01- 15- 602 ++ 13- 150 14060 61- 580 06- 11- 545 ++ 21- 499 09- 24- 432 ++ 22- 375 ++ 28- 276 40- 46- 250 45- 197 57- 150 61- 085 54- 083 56- 071 53- 046 50-
VALENTIA 03953	02 855++	023	022	630	920 07 05 902 12 09 738 05 02 668 04 02- 593 03- 07- 529 08- 14- 515 08- 13- 423 17- 30- 250 45- 226 51- 157 13400 68- 181 63- 157 68- 144 69- 131 59- 112 60- 090 55- 047 53-
	02 863++	018	016	680	000 15 13 972 14 11 830 04 03 795 06 02 736 05 09- 632 04- 17- 563 10- 14- 547 11- 17- 483 15- 29- 402 181 12700 57- 27- 40- 250 50- 229 53- 181 57- 066 54-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 784++	000	000	759	985 ++ 09 937 09 07 890 04 02 858 02 01 850 ++ 02 835 ++ 04- 831 05 03- 788 ++ 00 754 01- 07- 743 01- 274 09700 50- 09- 738 ++ 12- 707 ++ 17- 690 ++ 12- 646 06- 24- 617 09- 27- 560 11- 36- 528 ++ 22- 474 18- 27- 412 ++ 36- 398 29- 36- 325 40- 46- 274 50- 250 48- 229 46- 173 48- 100 50- 044 50-
	25 33439	990	990	752	967 10 08 797 01 00 768 01 02- 694 03- 13- 663 ++ 24- 645 04- 16- 611 ++ 12- 530 16- 20- 515 ++ 22- 476 242 09400 50- 22- 26- 459 ++ 26- 430 26- 35- 340 40- 47- 299 48- 282 50- 250 42- 248 41- 154 47- 133 46- 117 49- 100 50- 070 51-
Ocean Weather Station 'J' 52°30'N 20°00'W	20 874++	016	016	630	995 14 14 970 13 07 915 12 01 870 11 11 790 07 07 745 06 13- 705 05 24- 600 02- 30- 555 05- 32- 500 10- 203 12100 52- 36- 384 23- 46- 280 40- 59- 250 45- 230 50- 203 52- 080 52- 050 48- 035 48-
	884++	012	012	700	987 13 08 911 10 06 890 09 00 870 10 06- 850 10 05- 812 06 04- 777 05 01- 675 01- 05- 610 04- 07- 368 28- 252 10600 46- 42- 311 38- 54- 300 39- 55- 252 46- 250 45- 235 46- 155 47- 119 51- 091 50- 082 47- 020 36- 017 49- 016 33-

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	192330	T	280 11	+++ ++	310 19	320 20	320 21	300 20	290 38	300 44	300 84	310105	310123	310 78	300 37	330 20	320 11				
	200530	P	300 06	+++ ++	290 13	300 15	300 16	300 20	320 24	300 53	300 68	290 81	300 92	290 57	300 36						
	201130	P	230 08	+++ ++	240 08	260 11	260 12	280 08	280 14	290 27	290 37	270 40	280 44	290 38	280 30	290 15	280 09				
	201730	P	180 06	+++ ++	190 15	190 11	230 08	260 16	270 19	270 24	280 33	280 51	280 66	280 36	280 31						
STORNOWAY 03026	192330	T	220 10	+++ ++	280 11	280 13	290 20	280 24	280 31	300 46	290 62	300 74	290 90	290 87	290 42	300 21	310 14				
	200530	P	200 15	+++ ++	210 24	240 26	260 28	270 31	280 38	260 55	250 59	250 54	250 69	260 71	280 40						
	201130	T	260 22	+++ ++	260 26	250 27	240 30	250 30	270 33	270 41	260 55	270 73	260 74	270 55	270 34	280 23	290 10	260 04			
	201730	P	220 13	+++ ++	240 28	230 27	240 19	240 28	250 35	240 42	240 52	240 62	240 63	260 42	270 25	280 25	270 15	300 09			
SHANWELL 03170	192330	T	000 00	+++ ++	270 08	280 14	290 17	300 19	300 30	310 47	310 57	320 75	310 89	320 75	320 50						
	200530	P	270 04	+++ ++	270 10	260 11	280 19	280 38	280 45	290 51	290 56	290 67	290 83	290 85	300 41	290 18	330 16	270 08			
	201130	T	230 15	+++ ++	240 31	260 37	260 39	260 33	270 43	280 51	270 62	280 81	280 83	290 66	290 45	300 19	320 15				
	201730	P	250 17	+++ ++	270 21	270 25	270 35	270 41	280 49	270 46	270 47	270 58	260 60	270 59	270 40						
ALDERGROVE 03917	192330	T	280 11	+++ ++	300 18	300 18	290 19	290 25	310 32	320 39	310 51	310 60	310 66	310 64	310 37	310 20	290 06	360 02	050 03		
	200530	P	210 16	+++ ++	260 23	280 28	280 36	270 34	270 43	280 42	280 52	280 72	270 81	270 93	280 56	280 30	320 12				
	201130	T	220 20	+++ ++	260 39	270 44	270 48	270 55	270 42	260 50	260 51	260 56	260 65	270 72	280 35	290 21	280 11				
	201730	P	260 08	+++ ++	260 21	260 39	260 46	260 61	260 59	250 58	260 61	250 60	250 65	260 57	270 38	280 33					
AUGHTON 03322	192330	T	270 10	+++ ++	300 19	290 15	310 15	310 24	310 29	310 37	330 53	340 69	330 77	330 72	330 45	320 20	300 14				
	200530	P	280 08	+++ ++	290 24	290 22	300 23	300 25	310 34	310 38	310 46	300 62	300 72	300 72	300 43	300 24	320 11				
	201130	T	240 10	+++ ++	250 22	270 29	270 34	280 34	280 35	280 38	280 42	280 61	280 75	280 78	280 47	290 33	280 13	250 07			
	201730	T	210 12	+++ ++	260 38	270 42	280 40	270 42	270 44	270 42	270 46	280 42	280 48	270 59	270 49	280 30	270 15				
HEMSBY 03496	192330	T	290 09	+++ ++	340 20	340 22	340 22	350 28	340 31	350 39	340 46	350 88	360108	360 85	340 33	310 22					
	200530	P	270 07	+++ ++	310 18	320 20	290 23	310 24	320 32	330 41	330 56	330 61	330 77	330 80	330 49	300 19					
	201130	T	260 12	+++ ++	270 18	270 20	290 25	290 26	300 39	300 35	310 47	310 62	300 79	300 78	300 48						
	201730	P	230 12	+++ ++	260 26	290 28	290 28	280 33	280 33	270 35	270 45	270 57	270 69	290 65	290 45	290 27	300 13				
CRAWLEY 03774	200025	T	320 07	+++ ++	330 14	340 16	340 17	350 22	350 33	350 38	350 52	360 72	360 91	360 68	350 43						
	200530	P	270 04	+++ ++	280 16	270 17	300 12	310 23	330 27	330 36	340 43	330 53	330 62	330 61	340 46	300 20	330 05				
	201130	T	270 06	+++ ++	280 18	290 22	300 22	310 22	320 21	300 28	310 35	300 53	300 67	290 63	300 40	280 17	240 05				
	201730	P	240 10	+++ ++	270 23	290 22	280 21	290 29	280 30	270 31	280 44	270 55	270 72	280 65	290 50	300 25	310 16				
CAMBORNE 03808	192330	T	300 11	+++ ++	310 15	340 17	340 18	350 22	320 24	320 19	340 42	350 57	350 63	340 61	340 42	340 14	340 03				
	200530	P	300 08	+++ ++	290 14	320 18	320 22	330 23	340 32	320 31	320 31	310 39	310 46	300 48	310 37	310 21					
	201130	T	270 10	+++ ++	280 17	300 15	290 19	300 27	280 28	280 31	270 37	270 48	260 56	270 64	280 46	300 17	300 04				
	201730	P	240 13	+++ ++	260 22	270 25	270 28	280 34	280 32	290 35	280 40	260 56	260 60	260 59	280 51	280 25	270 20				
VALENTIA 03953	192330	T	270 03	260 07	280 13	290 18	300 21	310 26	310 26	300 31	290 34	290 41	290 42	290 40	290 34						
	201130	T	230 15	230 19	240 28	250 27	260 22	270 39	280 57	270 48	260 47	250 49	250 55	250 58	270 46						
Ocean Weather Station 'I' 59°00'N 19°00'W	200000	T	220 22	+++ ++	230 32	230 31	230 30	240 29	230 33	230 44	230 36	230 47	250 35	230 46	240 33	260 20	270 12	330 09			
	200600	P	225 30	+++ ++	220 35	220 34	220 33	240 31	230 30	240 36	240 42	240 44	250 45	220 37	260 28	260 20					
	201200	T	220 28	+++ ++	220 30	220 31	220 33	240 30	230 41	230 36	230 41	240 39	230 38	250 31	270 31	290 16					
	201800	P	225 30	+++ ++	220 30	230 29	240 28	240 23	240 26	230 23	230 30	230 30	240 29	260 31	270 34	300 31	280 10				
Ocean Weather Station 'J' 52°30'N 20°00'W	200000	T	240 20	240 23	250 38	250 46	240 50	240 55	250 56	250 57	250 63	240 61	240 65	240 70	230 51	220 31					
	200600	P	240 23	+++ ++	260 38	260 39	260 42	250 48	250 49	250 51	240 51	250 57	250 54	250 56	250 32						
	201200	T	240 22	240 24	250 43	260 41	260 42	250 48	250 54	250 54	240 55	240 65	240 62	240 52	230 19						
	201800	P	240 26	+++ ++	260 36	260 40	260 49	250 53	260 52	280 60	270 61	280 70	270 63	270 57							
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	173mb 300 45 053mb 310 08 15300m 300 33 19500m 280 08 08900/0 11600/1	310 128 10600m 300 95 10750m 280 74 09480m
STORNOWAY 03026	171mb 280 61 070mb 310 14 15500m 280 26 11760/1 12240/1 12720/1 037mb 250 05 23400m 360 03 11160/1	290 96 11280m 260 80 11500m 270 76 09510m 240 66 09670m
SHANWELL 03170	02480/0 12800/1 13200/1 15150m 280 32	310 92 10600m 290 88 11550m 280 84 10650m 270 68 11460m
ALDERGROVE 03917	P14250m 310 33 25500m 110 06 12550/1 13480/4 14050/1 16450/4 172mb 270 52 055mb 210 03 13250/4	310 72 11430m 270 96 11700m 260 74 11580m 250 69 11330m
AUGHTON 03322	P12480m 330 62 20100m 310 07 12480/1 13950/1 20100m 010 04 08920/0 13340/1 13870/1 162mb 280 60 038mb 250 03 19200m 300 13	340 80 10930m 300 78 11070m 280 90 11610m 270 62 12220m
HEMSBY 03496	350mb 340 54 P13000m 350 50 12680/1 09320/0 13360/1 127mb 300 31 112mb 300 18 15000m 290 29 12780/1 14360/1	350 110 10220m 330 83 11400m 300 90 11360m 270 74 10450m
CRAWLEY 03774	09910/0 11150/0 13000/1 19200m 290 09 09930/0 13970/1	360 98 10880m 330 75 11330m 300 74 11450m 270 75 10600m
CAMBORNE 03808	128mb 330 29 052mb 340 05 16400m 310 15 122mb 300 34 054mb 290 04 19200m 340 03	340 66 11330m 270 73 12220m 260 66 10980m
VALENTIA 03953		260 65 12600m
Ocean Weather Station 'I' 59°00'N 19°00'W	056 mb 300 10 18000m 250 02 075mb 310 16 165000m 290 20 18900m 260 06 15900/1	
Ocean Weather Station 'J' 52°30'N 20°00'W	116mb 220 22 089mb 220 33 536mb 250 61 208mb 250 62 127mb 250 26 355mb 240 67 231mb 240 67 170mb 230 23 274mb 280 73 182mb 270 58	240 73 11950m 240 67 08180m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

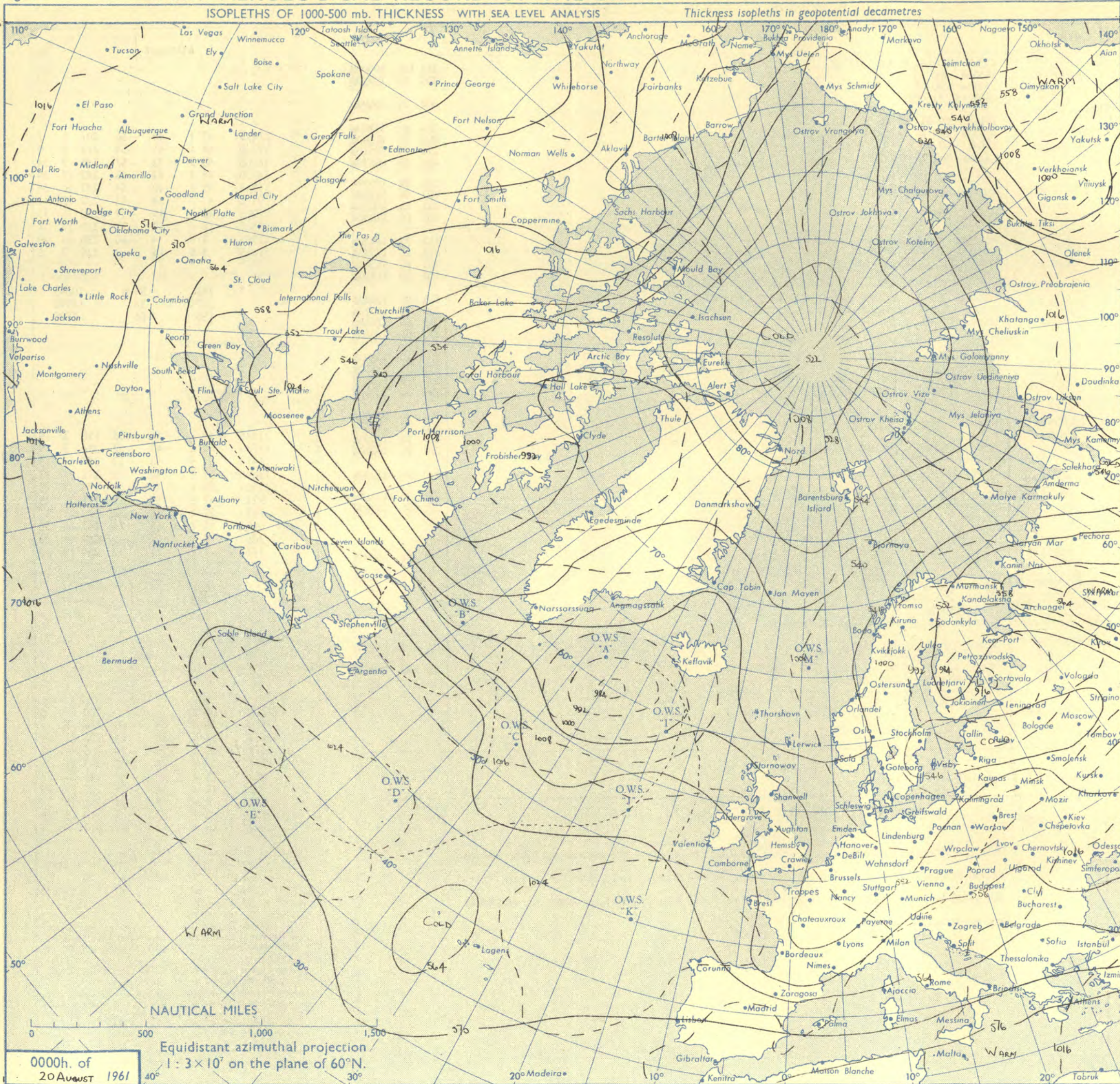
Over the Atlantic the waves in the westerlies continue mobile. The deep trough which recently passed Newfoundland and was looking ripe for a cut-off development, actually relaxes instead and leads to a surprisingly rapid straightening of the westerlies right across the middle of the North Atlantic.

AVERAGE AND EXTREME VALUES 1951-55							
AUGUST							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22435	-47.1	-44	-56	201	3	7
60	19760	-48.1	-41	-54	213	4	9
100	16400	-48.3	-42	-57	235	9	14
150	13730	-48.4	-42	-63	242	13	24
200	11845	-49.7	-40	-64	243	16	34
300	9190	-44.7	-34	-53	232	17	41
400	7205	-30.0	-19	-39	230	15	33
500	5580	-18.4	-10	-27	229	13	27
700	2985	-2.7	4	-10	230	10	20
850	1425	4.8	16	-2	229	7	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		243	-54.8		10645		
Max.		367	-38		13990		
Min.		150	-66		7590		
LARKHILL/CRAWLEY† at 03, 15h.							
(Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22425	-49.2	-45	-56	158	2	6
60	19780	-50.8	-43	-57	224	3	9
100	16470	-52.4	-43	-62	267	13	18
150	13845	-52.3	-42	-69	273	23	31
200	11980	-52.4	-40	-63	274	29	43
300	9325	-42.4	-34	-52	271	27	45
400	7320	-27.2	-18	-37	270	23	36
500	5680	-15.7	-8	-24	267	20	30
700	3060	0.1	7	-6	262	14	22
850	1480	7.7	17	2	260	10	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		226	-55.9		11245		
Max.		343	-41		14235		
Min.		145	-67		8230		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22330)	(-55.6)	...	...	100	14	15
60	19780	-60.8	-54	-68	110	7	11
100	16655	-66.8	-58	-74	250	21	24
150	14175	-60.2	-53	-70	255	41	45
200	12345	-50.9	-44	-59	265	44	49
300	9620	-35.2	-29	-44	275	31	37
400	7555	-20.4	-16	-27	285	23	29
500	5865	-8.6	-4	-14	290	19	24
700	3170	8.9	13	1	310	15	19
850	1540	18.4	27	12	310	7	11
Tropo- pause		Average	Max.	Min.	Max.	Min.	
		Press:	Temp.	Press.	Press.	Temp.	Temp.
Upper		mb.	°C	mb.	mb.	°C	°C
Lower		(195)	(-59.1)	...	...	...	...
* V _R = Vector average wind. V _S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.							
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.							
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.							

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

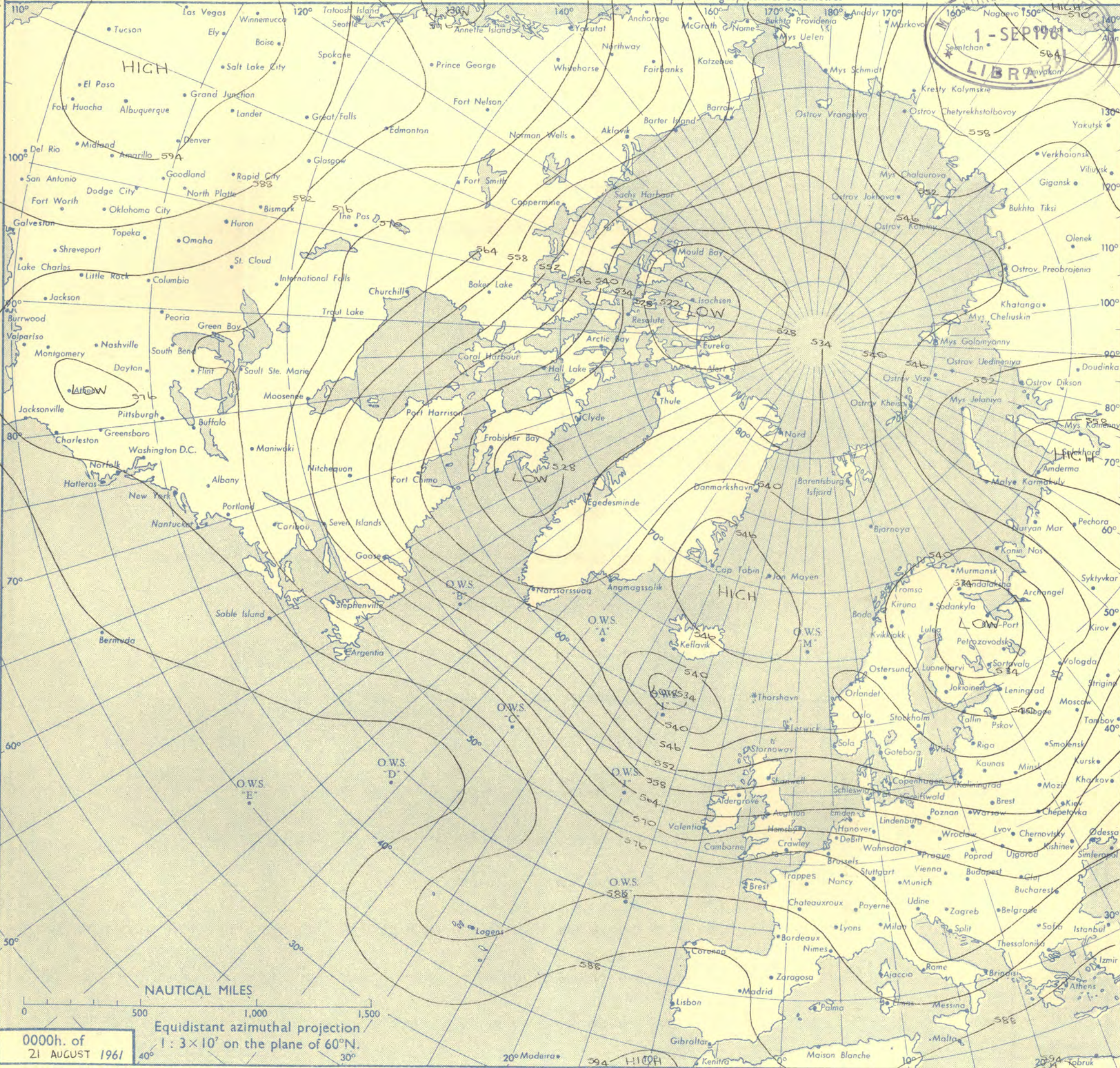
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



NAUTICAL MILES

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

0000h. of
21 AUGUST 1961

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

1-SEPT-1961
LIBRARY

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	202333	082	11	11	006-	++	++	1330	02	00	2880	05-	18-	5454	19-	23-	7080	30-	34-	9054	45-	++	11733	46-	13645	47-	16321	48-												
	211135	082	13	12	055-	++	++	1290	04	01	2848	04-	07-	5425	21-	28-	7030	34-	41-	8980	49-	++	11713	42-	13650	45-	16357	45-												
STORNOWAY 03026	202330	013	12	11	006-	++	++	1343	06	03	2907	04-	06-	5491	18-	25-	7112	31-	37-	9082	46-	++	11791	43-	13713	48-	16385	49-												
	211140	013	14	12	054-	++	++	1288	04	02	2839	05-	12-	5402	21-	26-	7012	33-	39-	8972	48-	++	11720	40-	13664	45-	16356	48-	18703	49-										
SHANWELL 03170	202330	005	14	11	024	13	11	1377	06	04	2948	01-	03-	5552	18-	21-	7182	30-	37-	9160	46-	++	11829	46-	13726	51-	16358	52-	18676	51-										
	211130	005	17	11	039-	++	++	1310	05	00	2866	04-	10-	5433	21-	29-	7043	32-	38-	9012	47-	++	11766	39-																
ALDERGROVE 03917	202330	077	14	11	048	++	++	1397	06	01	2973	00	01-	5591	16-	19-	7228	30-	35-	9222	44-	++	11917	47-	13814	49-	16451	51-												
	211130	077	16	11	014	++	++	1359	05	03	2912	04-	07-	5488	22-	28-	7088	35-	47-	9053	44-	++	11816	41-	13747	47-	16398	50-	18719	51-	20905	51-								
AUGHTON 03322	202330	056	16	14	078	16	14	1440	09	08	3022	00	10-	5641	15-	18-	7286	27-	32-	9287	43-	++	11949	52-	13802	54-	16419	53-												
	211130	056	16	12	040	++	++	1396	05	01	2959	03-	06-	5548	18-	36-	7178	30-	48-	9173	43-	++	11888	46-	13790	49-	16443	50-	18742	51-	24216	52-								
HEMSBY 03496	202330	012	15	13	104	14	11	1464	08	04	3050	01	04-	5678	15-	18-	7326	27-	32-	9340	41-	++	11991	55-	13834	55-	16433	56-												
	211130	012	20	15	044	20	13	1415	08	02	2996	00	06-	5602	17-	37-	7241	29-	++	9235	45-	++	11897	48-	13781	52-	16390	53-	18685	52-										
CRAWLEY 03774	202330	144	15	13	143	++	++	1502	06	04	3097	04	05-	5739	16-	17-	7388	26-	31-	9400	43-	++	12055	53-	13894	57-	16468	56-												
	211130	144	16	16	095	++	++	1465	10	07	3059	02	05-	5699	12-	31-	7364	25-	44-	9395	40-	++	12067	49-	13953	52-	16578	50-												
CAMBORNE 03808	202330	088	16	15	155	15	13	1521	08	07	3115	03	01-	5750	14-	17-	7404	25-	29-	9418	42-	++	12088	53-	13928	57-	16498	58-												
	211220	088	16	14	119	15	13	1481	08	06	3064	00	03-	5697	14-	37-	7354	26-	38-	9369	42-	++	12022	54-	13876	54-	16471	55-	18755	54-										
VALENTIA 03953	202330	014	17	17	094	16	15	1466	10	08	3059	01	11-	5690	14-	25-	7340	27-	38-	9370	39-	++	12060	51-	13920	53-	16530	52-												
	211200	014	16	13	101	15	13	1445	04	02	3011	00	19-	5640	14-	30-	7300	26-	39-	9320	41-	++	11980	50-	13860	52-	16490	54-												
Ocean Weather Station 'I' 59°00'N 19°00'W	210000		12	11	107-	++	++	1234	04	03	2791	04-	05-	5370	20-	26-	6980	33-	41-	8960	39-	++	11750	37-	13700	45-														
	211200		12	10	000	12	10	1339	04	02	2892	04-	07-	5480	20-	24-	7090	33-	37-	9050	47-	++	11730	46-	13640	47-	16290	51-	18600	53-	20770	54-	24040	55-						
Ocean Weather Station 'J' 52°30'N 20°00'W	210000		15	13	097	14	12	1440	04	02	3030	02	26-	5680	12-	38-	7350	23-	46-	9380	40-	++	12060	51-	13920	50-	16560	51-	18880	50-	21070	49-	24430	++						
	211200		13	08	152	12	08	1500	07	01-	3081	03	08-	5750	10-	24-	7420	23-	32-	9470	38-	46-	12170	52-	14040	50-	19010	51-	21250	46-	24690	39-								

STATION	ww N _h C _L hC _M C _H	PRESSURE																							TROPICRAUSE		
		MSL	Surf.	0°C level																					mb	m	°C
LERWICK 03005	02 863++	000	989	796	982 ++ 08 958 ++ 07 904 ++ 02 836 01 01- 796 00 03- 777 01 08- 764 ++ 16- 753 ++ 04- 728 ++ 17- 653 ++	21- 518 ++ 22- 446 25- 29- 339 39- 45- 267 51- 250 52- 216 45- 142 48- 100 48- 088 48-															267	09860	51-				
	01 68432	993	984	759	970 11 08 831 03 00 797 02 01- 654 ++ 10- 617 09- 13- 470 ++ 31- 440 ++ 37- 361 40- 47- 309 49- 288 50-	250 41- 142 45- 100 45- 091 48- 080 46-															288	09240	50-				
STORNOWAY 03026	60 6552+	999	998	757	985 11 09 851 06 04 657 07- 09- 644 06- 09- 586 ++ 17- 535 17- 20- 516 ++ 24- 501 18- 25- 378 35- 41- 341 40- 276 09610	46- 276 49- 250 45- 218 42- 147 48- 073 49-															49-						
	80 725++	993	992	787	987 12 10 960 10 09 818 02 00 714 ++ 12- 630 ++ 13- 559 ++ 19- 524 ++ 24- 482 23- 27- 411 ++ 37- 351 40-	46- 295 49- 280 48- 264 41- 250 40- 214 39- 154 45- 127 47- 116 46- 099 48- 066 49-															295	09100	49-				
SHANWELL 03170	02 4567+	003	002	729	987 ++ 10 808 04 02 667 03- 05- 607 ++ 09- 462 22- 25- 442 ++ 32- 415 ++ 38- 375 34- 38- 347 ++ 41- 337	40- 44- 267 51- 250 51- 242 51- 213 45- 142 52- 100 52- 062 51- 057 49-															267	09920	51-				
	25 3156+	995	995	780	972 13 07 905 ++ 04 868 ++ 01 758 02- 05- 744 01- 05- 729 ++ 08- 675 ++ 12- 631 10- 14- 623 10- 15- 607	++ 19- 520 ++ 32- 480 ++ 29- 406 31- 37- 390 32- 39- 345 40- 47- 288 49- 276 41- 250 40- 200 39-															288	09290	49-				
ALDERGROVE 03917	60 4557+	006	997	715	915 09 05 890 ++ 06 860 06 00 838 ++ 04 798 04 03 704 01- 02- 696 00 01- 539 12- 15- 442 23- 28- 397 30-	35- 323 ++ 46- 273 48- 250 46- 225 46- 131 52- 090 51-															273	09830	48-				
	02 78402	002	993	782	988 14 10 957 11 08 882 06 04 722 04- 06- 710 04- 06- 653 ++ 15- 618 08- 18- 525 ++ 25- 488 23- 30- 443	++ 40- 392 36- 47- 355 40- 299 44- 250 39- 239 38- 114 52- 095 50- 050 51-															299	09070	44-				
AUGHTON 03322	02 3557+	009	003	703	725 01 00 705 00 09- 691 01- 12- 645 ++ 08- 523 14- 17- 489 16- 20- 408 26- 31- 374 ++ 38- 319 40- 296 44-	250 49- 214 53- 100 53-															214	11500	53-				
	21 58400	005	998	745	923 08 06 893 ++ 02 780 02 01- 737 ++ 08- 694 03- 07- 667 06- 13- 657 ++ 13- 560 ++ 24- 543 14- 30- 462	22- 42- 355 35- 50- 316 41- 265 48- 250 45- 230 41- 138 52- 120 49- 081 56- 070 51- 066 51- 030 52-															265	10000	48-				
HEMSBY 03496	02 40970	013	011	281	978 13 11 944 13 10 888 ++ 03 839 07 05 804 07 04 785 ++ 03- 767 ++ 02- 750 ++ 01- 707 02 03- 658 ++ 05-	608 06- 16- 590 ++ 11- 565 ++ 11- 506 15- 18- 498 15- 18- 437 ++ 25- 348 ++ 42- 309 40- 46- 250 51- 226															226	11200	54-				
	01 635++	005	004	692	995 ++ 11 886 10 05 810 06 04- 721 ++ 03- 696 00 06- 651 04- 09- 640 04- 11- 621 ++ 10- 578 ++ 24- 551 11-	32- 479 18- 39- 376 32- 50- 267 50- 250 50- 218 51- 191 47- 53- 090 55- 058 52-															267	10010	50-				
CRAWLEY 03774	02 855++	017	000	652	942 11 09 927 12 09 885 ++ 05 832 ++ 03 826 04 01- 81 11 01- 793 ++ 09- 764 ++ 01 742 ++ 04- 712 ++ 07-	694 ++ 05- 675 02 06- 620 ++ 07- 508 ++ 16- 491 16- 18- 470 ++ 21- 452 ++ 23- 418 ++ 29- 389 27- 32- 316															221	11430	53-				
	51 873++	011	994	666	928 13 11 860 10 08 813 09 04 690 ++ 06- 680 ++ 09- 642 ++ 12- 618 ++ 11- 603 ++ 18- 572 ++ 26- 543 10-	26- 502 12- 31- 383 27- 46- 335 33- ++ 250 50- 243 51- 202 50- 168 48- 149 52- 114 53- 101 50- 096 52- 080															243	10800	51-				
CAMBORNE 03808	02 862++	018	008	671	962 ++ 12 934 13 11 861 08 07 820 ++ 07 800 08 06 739 ++ 00 728 ++ 01 709 04 00 524 13- 16- 490 15- 18-	375 29- 33- 316 40- 44- 250 48- 280 53- 159 56- 099 59- 090 56-															159	13550	55-				
	21 856++	014	004	692	962 13 10 939 13 08 914 11 08 879 ++ 08 775 05 03 755 02 01 702 ++ 02- 683 ++ 04- 670 01- 06- 624 ++ 13-	595 ++ 24- 538 11- 27- 526 10- 30- 502 ++ 37- 376 ++ 40- 316 39- 50- 250 50- 271 48- 224 53- 218 52- 198															224	11290	53-				
VALENTIA 03953	58 862++	011	010	680	834 09 07 775 07 05 724 02 05- 659 01- 08- 573 09- 13- 523 12- 18- 367 32- 43- 334 34- 47- 250 48- 271 45-	237 50- 225 47- 175 52- 127 55-															237	10900	50-				
	25 684++	012	010	700	953 09 07 811 01 01- 776 03 08- 706 00 19- 594 06- 28- 550 09 34- 497 14- 30- 421 23- 37- 289 43- 283 53-	250 51- 241 53- 210 50- 162 50- 155 52- 119 51-															241	10800	53-				
Ocean Weather Station 'I' 59°00'N 19°00'W	61 5742+	987	987	771	860 04 03 800 02 01 741 02- 03- 640 08- 08- 444 26- 34- 380 36- 45- 356 39- 48- 250 39- 322 42- 308 41-	288 37- 207 38- 151 45- 134 45-															322	08500	42-				
	02 785++	000	000	782	942 08 06 808 01 01- 733 02- 04- 555 14- 17- 394 34- 38- 348 40- 44- 283 50- 250 49- 182 45- 136 48- 129	50- 079 53- 055 53- Pressure suspect above 200mb															283	09400	50-				
Ocean Weather Station 'J' 52°30'N 20°00'W	02 855++	011	011	665	914 09 06 858 04 02 830 04 02 788 06 10- 722 02 26- 690 02 26- 660 01- 28- 630 01- 29- 572 04- 31- 479 15-	40- 460 16- 40- 303 40- ++ 250 46- 259 46- 218 50- 190 52- 144 50- 078 52- 048 49- 035 48-															218	11500	50-				
	02 784++	017	017	650	905 06 04 890 05 01 865 07 00 788 06 15- 750 05 19- 650 00 09- 366 04- 18- 457 15- 28- 332 31- 40- 283 40-	48- 250 44- 223 50- 179 52- 156 50- 124 50- 027 41-															283	12200	52-				

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m						
LERWICK 03005	202330	T	190 06	+++ ++	230 13	230 12	200 15	210 14	210 09	240 18	250 29	240 28	260 30	260 29	260 23	280 11	270 07										
	210530	P	160 06	+++ ++	180 07	180 09	190 11	230 11	220 11	220 17	200 17	190 19	230 24	260 26	250 20	270 19											
	211135	T	130 05	+++ ++	150 06	150 07	150 06	220 09	250 07	240 11	210 17	190 23	250 14	250 17	260 21	260 19											
	211730	P	070 07	+++ ++	050 07	070 05	030 05	290 22	210 01	000 00	200 06	240 12	260 14	270 19	260 21	250 13											
STORNOWAY 03026	202330	T	190 14	+++ ++	230 23	230 25	240 23	240 27	250 33	230 36	230 41	220 32	240 34	250 37	270 33	270 21	280 12 P240 09										
	210530	P	000 00	+++ ++	240 14	240 18	240 21	240 27	230 25	240 28	260 24	260 23	260 27	260 26	270 33	280 20											
	211140	T	250 10	+++ ++	240 19	240 17	240 14	250 09	260 19	270 16	240 13	250 14	260 21	270 27	280 27	270 21											
	211730	P	320 08	+++ ++	320 11	310 10	310 10	290 11	300 14	310 15	320 14	320 20	310 24	290 31	290 31	290 26											
SHANWELL 03170	202330	T	240 09	+++ ++	260 31	260 27	260 24	270 28	260 36	260 42	250 55	250 67	250 63	260 47	270 32	280 14	280 15	270 06									
	210530	P	240 10	+++ ++	250 29	260 32	260 27	270 25	270 28	250 24	240 31	240 44	250 48	260 38	260 35	280 23	280 11										
	211130	T	260 18	+++ ++	270 32	270 30	270 28	270 24	260 23	260 29	260 30	250 35	260 36	280 29													
	211730	P	250 12	+++ ++	270 25	270 25	280 23	280 22	270 22	260 17	240 16	250 15	270 31	270 30	280 29	280 26	280 15					280 08					
ALDERGROVE 03917	202330	T	210 12	+++ ++	260 31	260 33	260 33	250 45	250 37	250 47	260 62	250 73	250 82	250 58	280 45 270 25 250 13												
	210530	P	230 20	+++ ++	260 41	270 36	270 36	270 40	260 39	270 40	270 49	260 45	260 53	270 51						270 51	270 38	270 25					
	211130	T	230 24	+++ ++	260 39	260 41	270 42	270 45	270 44	270 42	270 56	270 68	270 65	270 51						270 38	270 25						
	211730	P	250 24	+++ ++	270 39	280 50	280 44	280 43	290 38	290 43	290 58	290 63	280 63	290 48						300 39	270 40						
AUGHTON 03322	202330	T	210 10	+++ ++	250 35	270 37	270 39	270 46	270 50	250 52	260 55	250 68	260 67	270 56	270 46	280 45 260 25 270 07 260 10 260 09											
	210630	P	250 08	+++ ++	260 34	260 40	250 44	260 53	250 58	250 68	250 81	260 94	260 90	260 67	280 45						260 25	270 07					
	211130	T	260 20	+++ ++	270 37	270 45	260 49	250 44	260 49	270 68	270 81	260 94	260 80	260 56	260 40						270 19	P260 10					
	211730	P	250 16	+++ ++	250 39	270 39	270 39	270 41	270 41	280 52	270 71	270 85	280 56	260 50	270 40						280 23	290 17					
HEMSBY 03496	202330	T	240 15	+++ ++	270 32	250 20	240 19	270 28	270 44	270 46	280 44	270 46	260 42	270 56	290 41	300 21	280 17 260 10										
	210530	P	230 17	+++ ++	260 35	260 32	250 34	260 38	270 46	260 49	260 53	250 74	260 68	270 51	270 41												
	211130	T	230 19	+++ ++	250 41	260 44	260 49	260 59	250 57	260 72	270 73	260 86	260 81	260 55	270 36	280 17											
	211730	P	270 18	+++ ++	260 39	260 43	260 44	260 48	260 53	260 60	260 78	260 82	260 77	260 53	270 41												
CRAWLEY 03774	202330	T	230 09	+++ ++	270 29	270 27	280 30	270 32	280 44	280 47	280 43	280 50	270 60	270 56	280 47	300 29	270 16 240 08 250 07 170 07										
	210530	P	210 15	+++ ++	250 41	270 39	270 43	270 48	270 50	270 56	270 55	280 53	270 51	270 45	270 47												
	211110	P	230 15	+++ ++	250 43	260 46	260 52	260 51	270 57	270 56	260 50	270 60	260 70	260 57	270 47	270 31											
	211735	P	270 08	+++ ++	270 35	270 45	260 49	270 61	260 54	270 58	260 69	280 81	280 81	270 64	270 49	270 47											
CAMBORNE 03808	202330	T	240 20	+++ ++	260 30	270 29	280 32	280 46	270 47	260 45	260 50	260 49	260 51	260 57	260 46	270 28 270 16											
	210530	P	220 21	+++ ++	260 42	270 43	270 50	270 57	270 54	270 50	270 50	270 47	270 46	260 46	260 47						270 28	270 16					
	211220	T	260 13	+++ ++	270 39	270 43	260 46	270 49	260 51	270 50	270 53	280 57	270 58	270 47	270 41						270 32	280 21					
	211730	P	270 20	+++ ++	280 33	270 37	270 38	280 47	270 46	280 53	280 60	270 68	280 69	280 63	280 42						290 31	280 17					
VALENTIA 03953	202330	T	230 15	240 20	260 35	260 37	270 43	270 47	260 51	250 59	260 67	260 74															
	211200	T	290 16	290 19	280 28	280 34	280 38	280 47	280 58	280 56	280 66	280 72															
Ocean Weather Station 'I' 59°00'N 19°00'W	210000	T	240 23	+++ ++	260 26	260 26	250 25	240 20	250 26	260 32	250 32	250 31	250 27	280 35	280 33	280 12 260 16											
	210600	P	315 30	+++ ++	310 38	320 36	320 36	320 30	310 32	310 30	310 37	310 41	310 44	270 38	250 45												
	211200	T	310 31	310 31	330 35	330 32	340 30	340 34	330 42	330 40	320 43	320 43	330 42	310 70	310 54						P280 36						
	211800	P	315 20	+++ ++	320 30	340 28	330 27	320 27	310 37	300 50	310 66	300 70	300 82	290 54	280 39						290 24						
Ocean Weather Station 'J' 52°30'N 20°00'W	210000	T	270 22	270 22	280 31	280 37	280 34	280 45	280 54	280 59	290 57	300 57	310 68	300 40	290 33	290 21	290 14										
	210600	P	290 28	+++ ++	300 34	300 36	300 37	300 43	300 53	290 53	290 63	290 58	290 60	300 65	300 50	300 27											
	211200	T	290 23	290 24	300 27	300 30	300 26	290 37	290 43	300 46	300 58	300 51	300 68	300 58	300 32	300 18											
	211800	P	300 17	+++ ++	300 20	300 22	300 22	290 25	300 34	300 45	300 49	290 56	290 68	290 59	290 41	290 24											
LARKHILL 03743	210630	P	220 17	+++ ++	260 47	260 50	260 49	260 49	270 53	260 53	270 59	270 64	260 60	270 58	260 45,												
	211130	T	280 19	+++ ++	260 34	240 33	250 36	260 48	260 56	270 56	260 56	260 73	260 72	260 49													

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					
211141	62.3°N 18.5°W	002	994	810	061	11 08	012	08 05	881	05 05-	1344	03 98-	1835	01-11-	05- 08-	2886	06- 12-	10- 10-	4078	12- 12-	16- 23-	5450	21- 28-
Cloud :— 2/8st. 800 to 1500ft. 3/8Sc. 1500 to 1800ft. 7/8Sc. 6000 to 7000ft. 4/8Ac. 11000 to 12000ft. 3/8Ac. 17000 to 18000ft.																							
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					
211300	64.6°N 11.0°W	000	992	825	061	09 07	003-	07 05	866	07 05	1329	01 01	1817	01- 03-	03- 06-	2874	07- 10-	11- 11-	4063	13- 30-	17- 41-	5428	21- 46-
Cloud :— 1/8St. 1300 to 1400ft. 5/8Cu. 1800 to 2500ft. 4/8Sc. 4500 to 6000ft. 3/8Sc. 6000 to 8000ft. 5/8Ac. at 11000ft. 2/8Ci. at 20000ft.																							
Inversion Levels :— 950mb to 947mb to 6½°C to 8½°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

Page 5

STATION		MAX. WIND
LERWICK 03005	20400m 250 06 085mb 240 17 16800m 280 14	
STORNOWAY 03026	080mb 270 16 17800m 290 11 P22800m 260 07 19200m 300 13	
SHANWELL 03170	063mb 270 10 2200m 260 08 15650/1 217mb 260 34 23600m 280 56	250 70 09250m
ALDERGROVE 03917	173mb 260 45 16900m 280 21 13600/1 052mb 220 13 00849/0 07260/0	250 95 09800m 260 67 11140m 270 71 08990m 290 74 08280m
AUGHTON 03322	107mb 270 24 12520/1 P22200m 270 08 19200m 300 10 10160/1 15850/2	250 70 08840m 260 98 09370m 260 96 08440m 270 92 09530m
HEMSBY 03496	084mb 280 12 11190/1 15000m 250 30	270 66 11630m 260 78 09250m 260 90 09240m 260 88 09250m
CRAWLEY 03774	092mb 290 19 17100m 270 17 16550/1 27150m 170 08 12600/1	270 63 11540m 260 61 08230m 260 75 10030m 280 84 10310m
CAMBORNE 03808	120mb 260 30 19500m 270 06	260 61 11420m 270 62 10680m 270 75 09480m
VALENTIA 03953		260 75 09100m 290 99 10660m
Ocean Weather Station 'I' 59°00'N 19°00'W	10900m 300 44 18900m 260 38 275mb 320 55 P19500m 260 12 14750/1 11100m 300 70	310 72 10370m 300 89 10690m
Ocean Weather Station 'J' 52°30'N 20°00'W	374mb 290 50 064mb 290 15 076mb 300 27 788mb 300 26 312mb 300 48 116mb 300 21 066mb 300 11 234mb 290 71 081mb 290 14	310 68 10600m 300 68 10710m
LARKHILL 03743	180mb 250 57	270 66 09250m 260 78 09140m

NOTES ON THE AEROLOGICAL SITUATION

The trough extending from the Davis Strait to the St. Lawrence is moving steadily east with a developing ridge ahead of it and now over mid-Atlantic. The trough to the west of the British Isles is also moving east but only slowly in the south with indications of a cut-off low in the Azores area. Further east the trough from eastern Europe to the Mediterranean is moving slowly east and relaxing while the low over eastern Finland is drifting north and filling slowly.

AVERAGE AND EXTREME VALUES 1951-55

AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

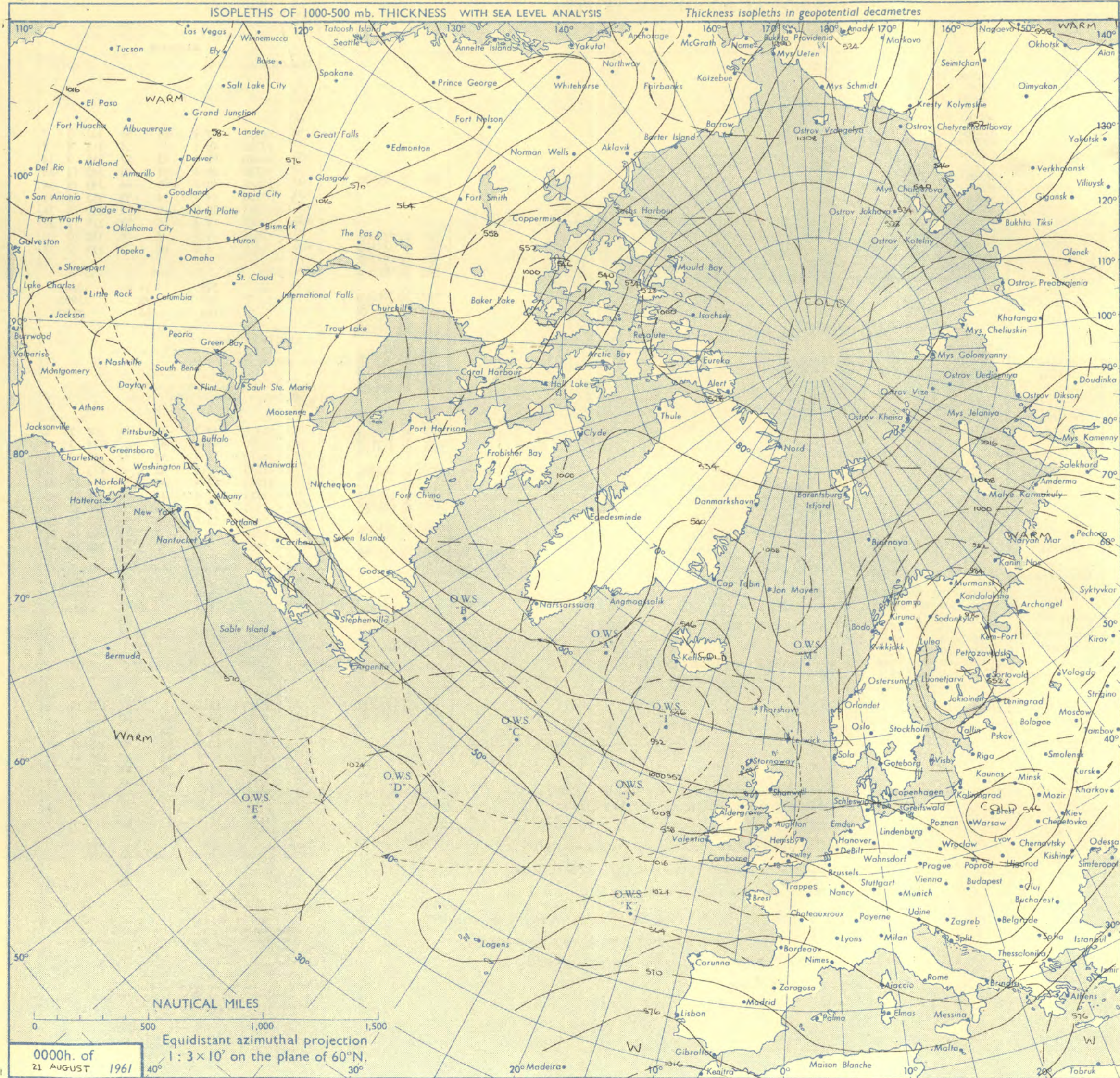
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

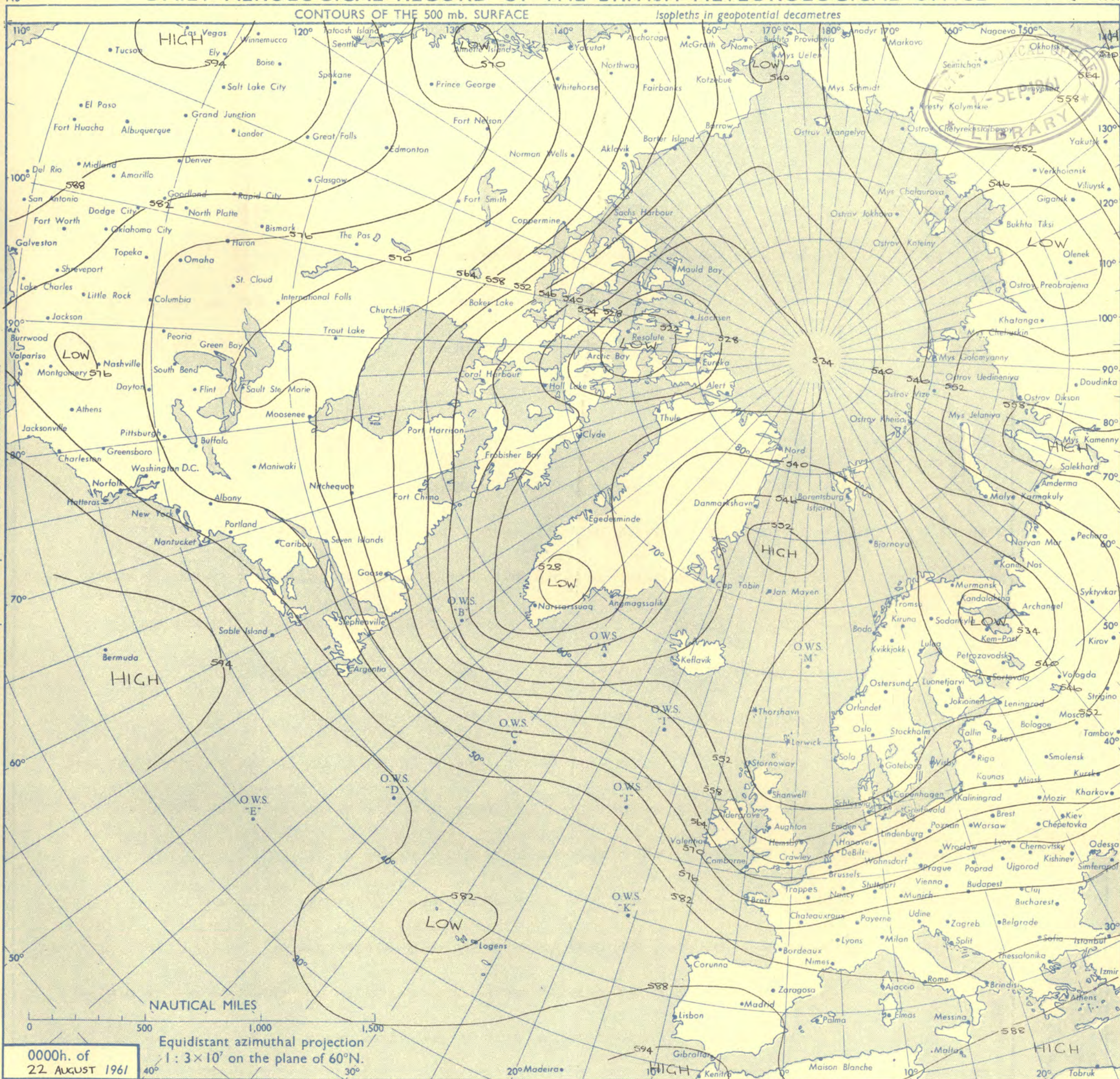
Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	102	-68.1	...	72	...	-75
Lower	(195)	(-59.1)	...	...	...	...

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

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

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





STATION	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	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C			
LERWICK 03005	212330	082	12	11	028	++	++	1316	04	02	2868	05	09	5429	22	30	7027	35	41	8967	50	++	11654	44	13579	46														
	221130	082	14	11	057			1394	02	01	2935	06	16	5499	21	30	7116	32	42	9083	47		11752	45	13674	46	16369	47	18732	47										
STORNOWAY 03026	212330	013	12	11	002	++	++	1343	04	03	2891	05	07	5461	20	28	7074	33	40	9033	48	++	11723	43	13647	46	16323	49	18664	49										
	221134	013	15	12	104	13	09	1441	03	02	2989	06	11	5586	16	30	7225	29	41	9215	45	++	11827	54	13697	50	16328	53	18640	51	20820	52								
SHANWELL 03170	212330	005	11	10	020	++	++	1333	05	03	2893	04	07	5462	21	27	7072	32	37	9037	48	++	11761	41	13706	45														
	221130	005	18	10	077	17	08	1430	05	01	2990	04	10	5568	19	35	7193	30	47	9173	46	++	11837	47	13742	48	16406	51	18744	50	20945	49								
ALDERGROVE 03917	212300	077	13	11	040	++	++	1382	04	03	2936	04	10	5516	19	30	7136	32	40	9108	47	++	11814	42	13738	48	16392	52	18708	50	20900	50								
	221130	077	15	11	123	13	10	1463	03	02	3016	01	21	5640	15	31	7281	28	40	9271	44	++	11890	58	13739	53	16351	53	18646	53	20818	52	24134	51						
AUGHTON 03322	212330	056	13	12	032	++	++	1377	03	01	2927	05	10	5501	20	30	7115	32	40	9080	47	++	11819	43	13743	48	16400	50												
	221130	056	15	12	115	14	11	1453	02	01	3012	02	11	5623	16	35	7260	29	44	9251	45	++	11889	49	13780	49														
HEMSBY 03496	212330	012	16	11	034	16	12	1386	05	03	2945	04	07	5527	19	26	7149	31	39	9121	45	++	11860	42	13784	47	16439	51	18764	51										
	221130	012	18	10	082	16	09	1440	04	02	2990	05	09	5565	20	32	7178	33	45	9137	49	++	11804	46	13713	49	16347	52	18641	54	20813	51	24125	53						
CRAWLEY 03774	220035	144	13	10	081	++	++	1428	04	01	2994	02	11	5594	17	36	7224	30	49	9224	41	++	11928	46	13830	50	16462	53	18766	52										
	221135	144	16	10	124	++	++	1475	04	03	3037	01	15	5649	16	47	7284	29	++	9230	44	++	11932	51	13820	49	16463	49												
CAMBORNE 03808	212330	088	14	11	133	14	11	1475	03	01	3049	02	34	5693	13	45	7353	25	++	9338	39	++	12052	54	13922	52	16524	55												
	221130	088	15	11	176	13	09	1518	04	02	3105	05	32	5765	12	42	7424	27	++	9442	40		12094	59	13917	57	16501	55	18781	53	20957	51								
VALENTIA 03953	212330	014	13	11	140	13	10	1476	03	02	3046	02	19	5690	14	34	7340	27	45	9330	42	++	11980	54	13820	55	16410	55	18690	54	20850	52								
	221130	014	14	12	187	12	09	1528	07	00	3118	03	14	5780	13	27	7440	25	31	9470	38	43	12130	60	13940	59														
Ocean Weather Station 'I' 59°00'N 19°00'W	220001		11	09	103	10	08	1438	05	05	3000	02	22	5610	17	22	7240	30	35	9220	46	++	11820	50	13700	51	16340	49												
	221200		12	11	066	11	10	1397	04	03	2968	02	03	5580	17	19	7220	29	32	9210	44	++	11820	59	13680	51														
Ocean Weather Station 'J' 52°30'N 20°00'W	220001		14	09	188	13	06	1540	09	00	3134	02	05	5810	11	28	7480	22	37	9550	34	46	12270	52	14090	57	16670	54	18980	51	21170	++								
	221200		15	12	152	14	13	1510	07	07	3102	03	20	5760	10	18	7440	18	23	9510	34	40	12220	55	14040	55	16650	51	19000	49	21210	44	24660	38						

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 855++	997	987	782	976 ++ 09 712 ++ 06- 685 ++ 13- 633 11- 14- 622 10- 14- 498 ++ 30- 428 ++ 36- 366 40- 46- 310 50- 289 51- 289 09200 51-			
	02 53400	007	997	808	987 12 09 976 ++ 07 878 04 03 837 ++ 02 809 ++ 02- 744 05- 05- 726 04- 12- 714 ++ 15- 659 ++ 16- 630 ++ 23- 613 ++ 20- 489 ++ 31- 473 22- 32- 418 ++ 40- 348 40- 47- 262 53- 250 51- 233 46- 194 45- 100 47- 054 47-	262	09980	53-
STORNOWAY 03026	25 2253+	000	999	792	755 02- 04- 691 06- 09- 650 10- 13- 634 08- 12- 576 ++ 20- 523 ++ 26- 350 40- 46- 316 46- 272 51- 250 47- 216 43- 104 49- 055 50-	272	09660	51-
	01 11501	012	011	793	995 12 08 920 06 03 893 ++ 01- 780 ++ 03- 724 04- 08- 690 07- 12- 676 06- 15- 623 07- 23- 535 13- 29- 335 39- 50- 250 53- 224 58- 213 59- 204 54- 187 51- 150 50- 046 52-	213	11420	59-
SHANWELL 03170	02 14700	998	997	760	980 12 09 927 11 07 902 ++ 04 856 06 03 767 ++ 02- 658 ++ 10- 620 11- 12- 522 19- 25- 348 40- 45- 308 47- 282 49- 250 44- 236 40- 177 42- 142 47-	282	09450	49-
	25 62400	009	008	780 742	988 16 06 944 12 04 853 ++ 01- 778 00 02- 751 01 06- 745 ++ 08- 692 04- 09- 638 ++ 15- 621 ++ 16- 617 12- 18- 605 10- 23- 525 17- 30- 485 21- 38- 430 26- 43- 387 32- 49- 298 46- 250 50- 247 51- 195 46- 167 46- 139 50- 111 48- 100 51- 088 47- 062 51- 043 49-	247	10480	51-
ALDERGROVE 03917	80 881++	005	996	776	892 06 04 757 ++ 03- 672 06- 14- 548 ++ 22- 528 ++ 27- 518 17- 28- 454 ++ 35- 374 36- 44- 354 37- 47- 284 49- 250 45- 219 42- 191 42- 153 48- 124 49- 110 52- 094 50- 077 53- 068 50- 062 51- 038 49-	284	09450	49-
	01 785+2	015	005	759	991 12 10 791 00 01- 772 ++ 08- 752 ++ 08- 740 ++ 16- 735 01- 24- 697 ++ 20- 682 01- 35- 646 02- 33- 623 ++ 25- 549 10- 29- 374 32- 44- 250 52- 225 57- 204 59- 189 53- 102 53- 073 55- 068 51- 060 54- 030 51-	204	11740	59-
AUGHTON 03322	25 785++	004	997	799	902 ++ 04 802 00 02- 757 02- 04- 740 02- 05- 724 ++ 08- 703 05- 09- 682 06- 12- 558 14- 22- 515 ++ 28- 347 40- 47- 308 47- 250 41- 245 51- 114 51- 088 54- 079 51-	308	08890	47-
	02 785++	014	007	733	983 12 09 851 02 01 781 02 03- 673 03- 13- 626 06- 23- 560 10- 30- 360 35- 49- 250 53- 228 55- 194 47- 179 50- 146 49- 135 52- 120 50-	228	11050	55-
HEMSBY 03496	60 8087+	004	003	773	907 09 07 795 ++ 01- 711 05- 07- 701 04- 07- 650 ++ 13- 613 ++ 15- 588 ++ 20- 555 ++ 18- 523 16- 24- 493 20- 27- 370 ++ 45- 344 40- 48- 312 45- 294 46- 250 43- 220 39- 166 47- 086 51- 060 50-	312	08850	45-
	25 52600	010	008	794	994 15 08 938 ++ 07 838 03 01 750 ++ 04- 689 ++ 10- 648 10- 13- 632 08- 14- 550 ++ 28- 498 20- 32- 477 ++ 39- 420 ++ 41- 372 37- 50- 267 53- 250 49- 219 46- 174 46- 128 52- 062 54- 053 51- 030 53-	267	09910	53-
CRAWLEY 03774	03 655++	009	993	730	978 13 10 912 ++ 08 884 07 04 852 ++ 02 813 01 00 797 04 00 780 ++ 08- 684 ++ 10- 672 ++ 16- 611 ++ 17- 587 09- 23- 539 13- 32- 413 ++ 48- 372 34- ++ 256 47- 250 47- 220 45- 108 54- 070 52-	256	10300	47-
	02 784++	015	998	782 733	987 15 06 913 08 04 830 03 02 767 01- 02- 747 ++ 08- 733 00 11- 708 ++ 15- 605 ++ 28- 591 07- 39- 524 14- 46- 372 33- ++ 271 48- 250 50- 217 54- 171 48- 120 52- 100 49-	217	11420	54-
CAMBORNE 03808	01 34600	017	005	652	950 10 08 848 03 01 838 ++ 02 824 05 03- 821 ++ 06- 788 05 16- 759 ++ 31- 668 01 35- 588 05- 39- 440 20- 50- 390 27- 349 30- 250 49- 221 55- 174 49- 099 56- 085 54-	221	11400	55-
	03 784++	021	011	630	993 12 08 844 04 02 830 06 00 823 ++ 02- 744 ++ 27- 720 06 31- 502 11- 39- 443 20- 48- 391 29- 322 36- 250 49- 200 59- 178 56- 081 56- 067 52- 047 51-	200	12094	59-
VALENTIA 03953	25 725++	017	015	675	921 06 03 838 02 01 800 04 04- 761 02 13- 711 03 18- 600 06- 29- 576 06- 29- 538 09- 30- 469 18- 38- 346 35- 250 52- 244 53- 214 58- 196 53- 171 56- 076 55- 038 50-	214	11500	58-
	25 884++	023	021	625	875 03 01 842 08 00 804 08 17- 770 08 15- 683 02 15- 622 00 19- 520 11- 25- 471 17- 29- 374 28- 33- 351 30- 34- 250 48- 201 60- 111 57-	201	12100	60-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 755++	012	012	740	970 ++ 07 910 05 04 897 06 04 880 ++ 03 862 04 03- 853 ++ 06- 845 05 04- 835 ++ 04- 780 02 12- 750 ++ 13- 699 02- 23- 687 ++ 11- 647 ++ 07- 633 05- 09- 513 ++ 22- 476 20- 24- 443 24- 30- 428 ++ 33- 398 ++ 35- 342 40- 43- 294 47- 264 54- 250 56- 231 58- 219 57- 204 50- 152 51- 100 49- 087 47-	231	10900	58-
	61 7732+	008	008	741	987 09 08 897 ++ 02 873 03 02 857 03 02 837 06 05 803 ++ 03 790 ++ 01 741 00 11- 640 05- 06- 494 16- 18- 326 40- 44- 250 53- 215 59- 200 59- 189 52- 151 51- 132 52-	215	11400	59-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 855++	022	022	680	910 07 05 890 07 02 876 09 01 835 09 05- 772 07 00 737 06 01- 682 00 06- 633 00 14- 488 13- 30- 378 25- 39- 329 29- 41- 305 33- 45- 265 40- 51- 250 42- 090 50- 053 50-	174	132	58-
	80 45530	017	017	640	992 13 13 900 10 10 820 06 06 800 05 04 755 05 19- 740 05 18- 667 02 19- 578 05- 17- 530 18- 26- 509 09- 15- 482 12- 16- 424 18- 22- 400 18- 23- 361 25- 31- 267 40- 46- 250 43- 225 50- 196 56- 164 58- 132 54- 060 48- 024 36-	156	12400	56-

STATION		MAX. WIND
LERWICK 03005	130mb 280 16 P23400 220 06 26100m 310 06 09950/0 10750/1	330 71 10200m
STORNOWAY 03026	061mb 270 13 16900m 300 20 04460/0 08490/0 09470/0 11250/L 12460/1	330 77 09660m 310 72 11380m 300 62 11620m
SHANWELL 03170	22700m 280 08 08610/0 10080/1 13830/1 225mb 320 66 28800m 260 07 29860m 170 09 19850m 290 06	330 70 09770m 320 86 10320m 310 72 09300m
ALDERGROVE 03917	08000m 340 81 11450m 320 76 07460/3 08850/6 11450/7 169mb 310 54 P24900m 250 08 09800/0 10850/1 12450/1	310 64 10900m 320 100 10110m 300 88 11810m 310 92 11110m
AUGHTON 03322	083mb 250 18 14110/1 133mb 290 31 13200m 320 69	310 67 07700m 320 73 10100m 320 100 10910m 310 77 11300m
HEMSBY 03496	064mb 230 10 032mb 220 14 11080/1	250 85 09620m 300 56 09130m 320 67 09870m 310 94 10370m
CRAWLEY 03774	15600m 280 26 17170m 300 21 07600/0 09350/0 11150/1 114mb 320 32 19500m 300 10 09150/0 13700/1	270 99 10250m 300 97 09600m 320 104 10580m 310 82 10750m
CAMBORNE 03808	14400m 290 41 12030/1 14080/1 342mb 310 51 13150/1	280 84 11190m 310 84 11820m 310 80 11120m 300 73 11370
VALENTIA 03953		300 86 11720m 310 83 11300m
Ocean Weather Station 'I' 59°00'N 19°00'W	367mb 300 54 188mb 280 45 093mb 260 16 19800m 270 06 14460/1 138mb 240 36 11100m 230 61 19800m 260 03 10850/1	290 84 09740m 220 87 09880m
Ocean Weather Station 'J' 52°30'N 20°00'W	058mb 270 05 231mb 260 60 096mb 280 32 740mb 200 30 280mb 250 59 190mb 250 72 104mb 240 23 097mb 240 28 109mb 250 43	290 63 11460m 250 72 12560m
LARKHILL 03743	05930/0 13800/7	300 108 09100m 330 96 09620m

NOTES ON THE AEROLOGICAL SITUATION

The trough over the western Atlantic continues to move steadily east while the down-wind ridge, now west of the British Isles is continuing to develop and move east. The trough from southern Norway across the British Isles to the Azores has moved east in the north and is filling but a cut-off low remains near the Azores. The old low centre near Murmansk has moved northeast and is filling slowly.

AVERAGE AND EXTREME VALUES 1951-55							
AUGUST							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22435	-47.1	-44	-56	201	3	7
60	19760	-48.1	-41	-54	213	4	9
100	16400	-48.3	-42	-57	235	9	14
150	13730	-48.4	-42	-63	242	13	24
200	11845	-49.7	-40	-64	243	16	34
300	9190	-44.7	-34	-53	232	17	41
400	7205	-30.0	-19	-39	230	15	33
500	5580	-18.4	-10	-27	229	13	27
700	2985	-2.7	4	-10	230	10	20
850	1425	4.8	16	-2	229	7	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		243	-54.8		10645		
Max.		367	-38		13990		
Min.		150	-66		7590		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22425	-49.2	-45	-56	158	2	6
60	19780	-50.8	-43	-57	224	3	9
100	16470	-52.4	-43	-62	267	13	18
150	13845	-52.3	-42	-69	273	23	31
200	11980	-52.4	-40	-63	274	29	43
300	9325	-42.4	-34	-52	271	27	45
400	7320	-27.2	-18	-37	270	23	36
500	5680	-15.7	-8	-24	267	20	30
700	3060	0.1	7	-6	262	14	22
850	1480	7.7	17	2	260	10	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		226	-55.9		11245		
Max.		343	-41		14235		
Min.		145	-67		8230		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22330)	(-55.6)	...	...	100	14	15
60	19780	-60.8	-54	-68	110	7	11
100	16655	-66.8	-58	-74	250	21	24
150	14175	-60.2	-53	-70	255	41	45
200	12345	-50.9	-44	-59	265	44	49
300	9620	-35.2	-29	-44	275	31	37
400	7555	-20.4	-16	-27	285	23	29
500	5865	-8.6	-4	-14	290	19	24
700	3170	8.9	13	1	310	15	19
850	1540	18.4	27	12	310	7	11
Tropo- pause		Average Press.	Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
		mb.	°C	mb.	mb.	°C	°C
Upper		102	-68.1	...	72	...	-75
Lower		(195)	(-59.1)	...	...	...	...

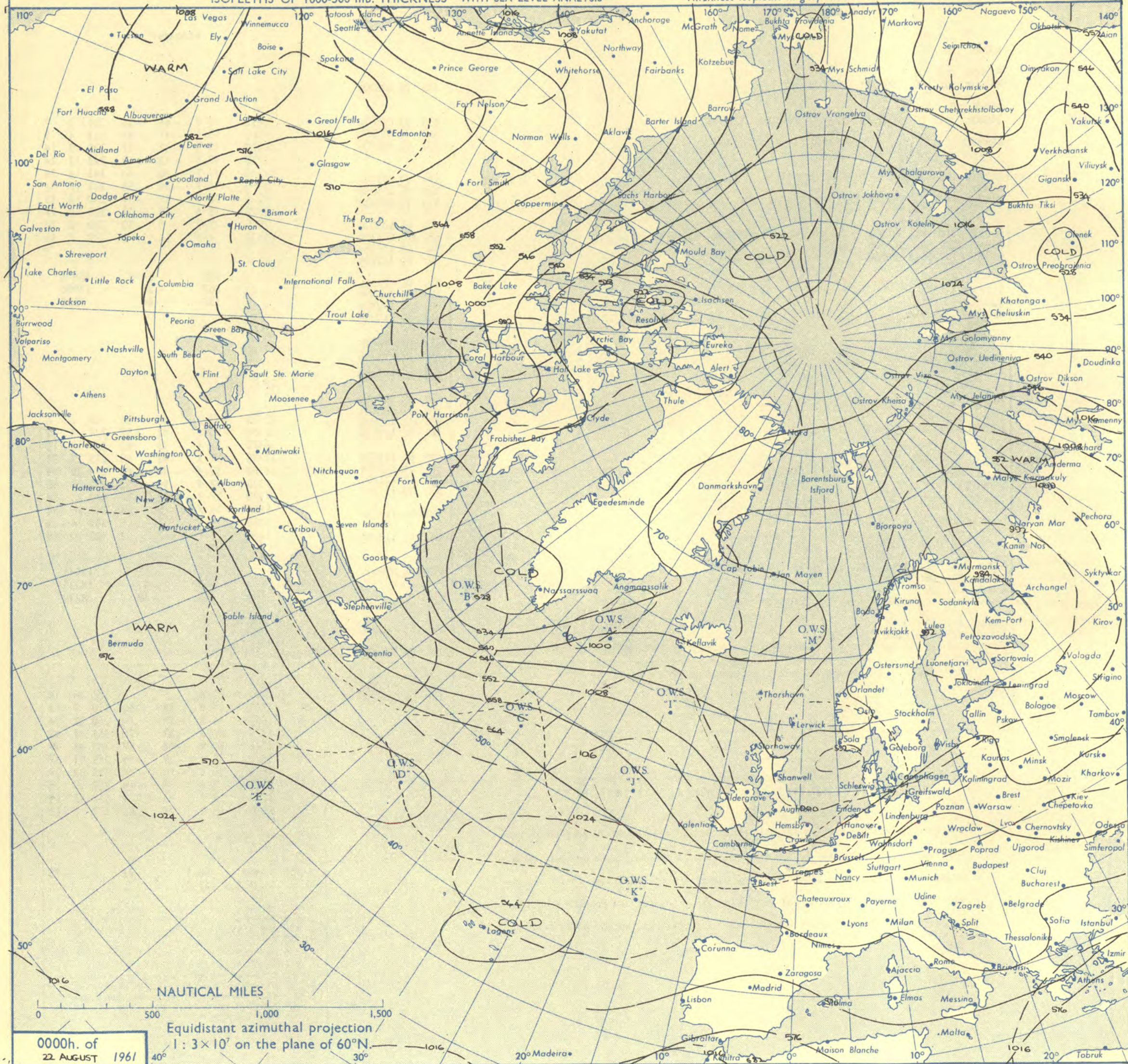
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

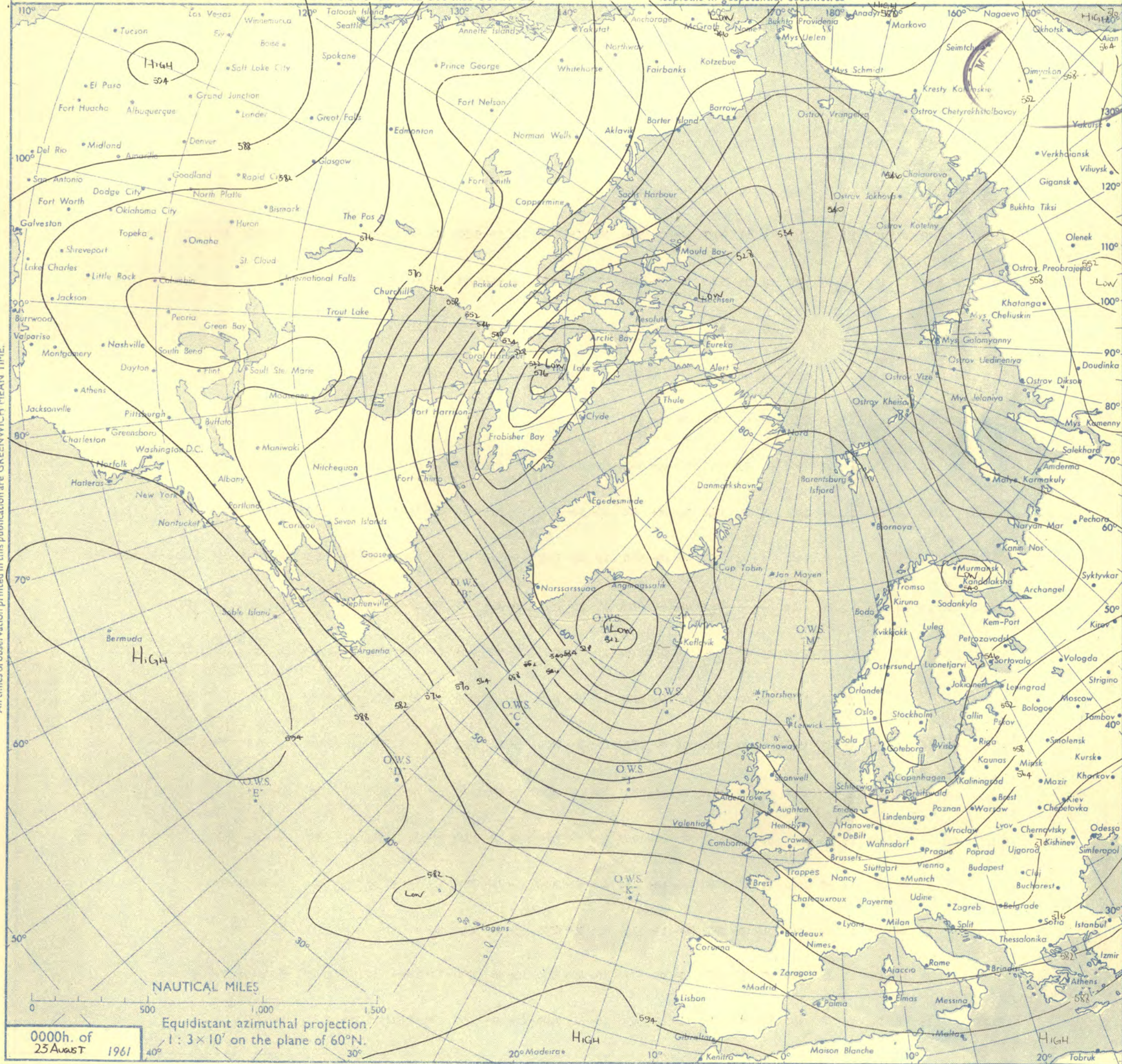
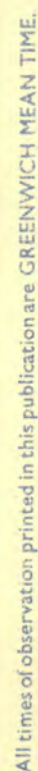
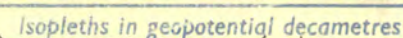
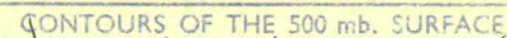
† Observations were made at Larkhill (Lat. $51^{\circ} 12' \text{ N.}$, Long. $01^{\circ} 48' \text{ W.}$) up to 28th April, 1953.

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





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	222330	082	08	06	098	10	07	1424	00	04-	2972	02-	18-	5560	19-	32-	7184	30-	44-	9164	46-	++	11764	52-	13644	50-														
	231130	082	11	10	084	11	10	1420	03	02	2980	02-	03-	5583	17-	35-	7223	28-	46-	9215	45-	++	11812	56-	13676	51-	16342	48-	18697	47-	20925	48-	24318	46-						
STORNOWAY 03026	222330	013	12	11	110	12	10	1447	04	01-	3016	01-	04-	5635	15-	18-	7284	27-	31-	9299	43-	++	11932	60-	13766	51-	16407	50-	18745	49-	20957	49-								
	231130	013	14	12	082	13	11	1428	05	04	2992	01-	29-	5588	19-	43-	7212	31-	47-	9193	46-	++	11818	51-	13704	48-	16385	46-												
SHANWELL 03170	222330	005	07	07	120	12	09	1465	04	01	3027	01-	12-	5649	16-	21-	7290	28-	33-	9292	41-	++	11928	60-	13768	53-	16387	50-	18713	50-										
	231130	005	15	10	114	13	08	1462	08	05	3040	01-	03-	5646	17-	27-	7281	29-	43-	9273	45-	++	11888	57-	13733	54-	16351	52-	18675	51-	20864	50-								
ALDERGROVE 03917	222330	077	12	09	152	11	09	1487	06	00	3066	01	07-	5692	15-	21-	7347	25-	30-	9382	39-	44-	12041	60-	13843	57-	16434	53-	18739	52-	20931	50-	24275	49-						
	231130	077	13	12	131	13	12	1481	06	05	3054	01-	02-	5666	16-	40-	7311	16-	40-	9326	27-	++	11967	58-	13813	53-	16453	51-	18792	50-	20990	49-	24375	45-						
AUGHTON 03322	222330	056	13	11	156	12	10	1495	02	00	3066	00	26-	5685	17-	23-	7325	28-	33-	9340	41-	++	11973	62-	13777	57-	16369	53-												
	231130	056	15	10	160	13	09	1500	06	03	3075	02-	04-	5689	15-	19-	7341	25-	35-	9365	40-	50-	12004	59-	13824	54-	16427	53-	18745	49-										
HEMSBY 03496	222330	012	13	12	139	13	11	1486	05	03	3048	04-	06-	5666	16-	32-	7306	29-	39-	9300	44-	++	11925	53-	13791	53-	16412	52-												
	231130	012	17	09	160	14	06	1500	03	02	3069	00	09-	5681	15-	20-	7337	25-	30-	9368	40-	48-	12012	59-	13821	56-	16411	54-	18710	52-	20895	50-								
CRAWLEY 03774	222330	144	12	10	168	12	10	1517	04	02	3090	02	++	5725	15-	23-	7371	27-	33-	9393	39-	49-	12043	59-	13863	56-	16454	54-	18741	54-										
	231130	144	17	10	181	17	09	1528	03	00	3101	00	07-	5730	13-	21-	7395	24-	30-	9433	39-	45-	12093	60-	13884	59-	16448	55-	18735	53-	20895	53-								
CAMBORNE 03808	222330	088	12	11	195	13	10	1536	06	02-	3129	04	14-	5791	12-	25-	7468	21-	28-	9538	34-	39-	12253	54-	14057	61-	16577	60-	18823	57-	20953	55-								
	231130	088	16	13	196	13	11	1546	06	04	3123	00	09-	5774	10-	30-	7452	23-	42-	9497	38-	++	12171	58-	13955	62-	16491	57-	18761	56-										
VALENTIA 03953	222230	014	13	12	176	12	10	1518	04	02	3102	02	13-	5740	13-	19-	7400	24-	28-	9440	39-	42-	12100	60-	13890	60-	16420	59-	18670	57-										
	231132	014	16	15	163	15	14	1527	08	06	3112	01	04-	5740	15-	33-	7400	26-	45-	9420	39-	++	12080	57-	13910	55-	16510	52-												
Ocean Weather Station 'I' 59°00'N 19°00'W	230001		12	08	012	12	09	1344	01	02-	2888	06-	14-	5430	24-	34-	7020	35-	46-	8980	46-	++	11690	45-	13600	46-	16300	47-												
	231200		12	06	025	11	05	1347	01-	05-	2861	12-	15-	5340	31-	35-	6890	43-	++	8810	44-	++	11560	42-	13500	44-														
Ocean Weather Station 'J' 52°30'N 20°00'W	230001		15	15	139	14	12	1490	07	05	3080	01-	03-	5700	16-	41-	7350	25-	48-	9370	40-	60-	12030	56-	13870	53-	16480	52-												
	231200		15	06	153	12	05	1490	01	04-	3044	01-	29-	5650	16-	41-	7290	28-	51-	9290	43-	++	11940	52-	13820	49-	16370	++												

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _h C _L hC _M C _H	PRESSURE																														TROPOPAUSE					
		MSL	Surf.	0°C level																													mb	m	°C		
LERWICK 03005	02 15500	012	002	854 801	000	10	08	995	++	05	958	++	04	932	++	00	854	00	04-	845	++	04-	829	01	08-	754	++	16-	703	02-	18-	353	37-	223	11070	59-	
	02 4847+	010	000	738	970	++	07	950	++	06	800	00	01-	773	01	00	668	++	05-	640	04-	08-	543	15-	18-	533	14-	22-	500	++	35-	419	25-	221	11200	60-	
STORNOWAY 03026	03 756++	013	012	720	981	11	08	867	03	02	846	05	02-	813	++	02-	798	++	10-	764	++	18-	740	01	03-	690	02-	05-	680	02-	07-	611	++	203	11820	60-	
	21 784++	010	008	740	911	07	05	863	++	05	833	05	03	787	01	00	773	02	09-	760	++	16-	720	++	29-	674	03-	32-	628	07-	40-	598	08-	232	10880	56-	
SHANWELL 03170	02 14600	015	014	710	005	12	10	984	13	10	940	++	05	800	01	01-	758	02	12-	713	++	19-	690	++	09-	628	05-	09-	600	06-	12-	394	++	193	12150	61-	
	02 5543+	014	013	720	000	13	08	940	++	07	897	06	04	880	09	06	865	09	06	743	02	02-	712	01-	03-	680	++	05-	656	++	10-	635	06-	215	11420	60-	
ALDERGROVE 03917	03 855++	018	009	688	879	03	01	861	06	02	829	++	07-	783	06	11-	767	++	13-	751	++	08-	670	++	07-	648	03-	11-	635	++	14-	587	06-	188	12420	63-	
	02 862++	016	006	280	978	10	09	944	11	10	709	01-	02-	610	07-	12-	576	11-	14-	558	11-	32-	550	++	36-	427	24-	++	372	31-	++	284	223	11250	57-		
AUGHTON 03322	02 35505	019	012	700	002	++	10	848	02	00	834	05	00	826	++	05-	810	++	09-	787	03	06-	762	++	19-	755	04	20-	700	00	26-	680	++	195	12120	63-	
	02 6853+	019	012	721	912	06	04	865	03	01	850	06	03	840	06	04	812	06	02-	805	++	00	777	++	07-	737	01	02-	669	04-	06-	650	04-	204	11870	59-	
HEMSBY 03496	01 15600	017	015	765	958	11	08	929	++	08	855	++	02	691	05-	07-	666	02-	13-	656	++	16-	616	++	26-	512	14-	32-	422	25-	36-	327	237	10840	56-		
	02 6852+	019	018	702	008	15	05	880	++	03	843	02	01	820	04	03-	811	++	06-	774	++	09-	742	03	24-	691	01-	09-	663	03-	09-	577	++	181	12630	61-	
CRAWLEY 03774	02 6093+	020	003	662	981	13	10	958	++	07	900	++	06	878	++	02	808	01	00	801	++	05-	793	06	14-	749	++	30-	737	++	23-	727	++	23-	206	11850	59-
	02 58501	021	004	700	965	12	04	906	07	03	817	00	02-	810	05	01	790	06	03-	699	00	07-	680	++	10-	610	++	17-	555	++	15-	546	++	194	12270	62-	
CAMBORNE 03808	03 4667+	024	013	624	000	13	10	860	04	03	840	08	08-	810	09	16-	793	++	05-	592	02-	24-	482	14-	26-	444	++	31-	392	++	28-	335	162	13590	61-		
	03 7852+	023	013	691	003	14	12	971	++	10	955	++	07	918	08	05	895	++	06	812	05	03	736	00	02-	729	01	02-	710	++	08-	644	02-	15-	178	12900	63-
VALENTIA 03953	02 784++	021	020	660	988	12	10	932	09	05	853	03	02	831	09	00	812	08	12-	740	03	04-	721	02	09-	693	02	12-	680	01	08-	634	03-	185	12600	63-	
	20 863++	019	018	690	996	14	14	826	08	06	762	04	00	728	03	03-	669	01-	04-	589	08-	13-	575	05-	16-	562	06-	23-	512	13-	31-	390	197	12200	58-		
Ocean Weather Station '1' 59°00'N 19°00'W	03 785++	001	001	830	921	06	03	900	++	01	793	03-	05-	773	01-	06-	769	++	08-	716	++	14-	682	++	14-	628	++	22-	512	23-	33-	264	278	09500	47-		
	02 35902	003	003	870	974	08	01	839	02-	05-	759	++	12-	701	12-	15-	567	24-	28-	424	40-	44-	396	44-	++	367	46-	++	335	44-	++	310	367	07500	46-		
Ocean Weather Station 'J' 52°30'N 20°00'W	862++	016	016	705	990	13	12	900	09	07	850	07	05	813	05	03	780	04	04	767	05	03	745	04	02	600	07-	11-	550	10-	35-	337	35-	56-205	11900	56-	
	28440	017	017	730	920	05	02	859	00	02-	825	02	11-	804	02	14-	732	00	28-	626	05-	32-	482	18-	42-	418	27-	49-	372	31-	53-	323	215	11700	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	222330	T	300 07	+++ ++	330 10	330 11	310 16	310 19	310 26	330 34	330 46	330 55	310 59	310 48	300 25						
	230530	P	000 00	+++ ++	280 10	290 15	290 16	290 21	300 19	290 28	290 23	290 39	290 37	280 38	280 23	270 17					
	231130	T	210 12	+++ ++	230 18	230 20	250 21	290 24	260 26	260 26	250 26	240 29	230 32	240 34	240 23	250 16	240 11	240 07			
	231730	P	240 18	+++ ++	240 21	240 24	230 32	240 27	240 32	240 32	230 41	230 43	220 38	240 34	240 31	240 16	260 14	270 08			
STORNOWAY 03026	222330	T	240 06	+++ ++	230 16	240 16	240 16	260 22	270 21	270 28	270 33	280 44	280 69	280 67	270 36	270 15	260 17				
	230530	P	190 18	+++ ++	220 33	240 31	250 31	270 36	250 26	250 35	240 38	250 43	250 47	250 05	230 37	260 21	250 09	260 07			
	231130	T	270 12	+++ ++	240 23	230 30	230 37	240 49	240 48	240 52	230 53	240 57	240 59	250 50	230 35	250 51	250 15	240 10			
	231730	P	260 15	+++ ++	260 21	270 23	250 25	240 37	240 44	240 50	240 64	240 69	250 69	250 52	250 40	250 23	270 17	270 06			
SHANWELL 03170	222330	T	000 00	+++ ++	270 06	270 12	270 16	320 26	300 29	290 33	300 38	310 64	310 76	310 70	290 35	280 17					
	230530	P	240 09	+++ ++	270 14	280 16	270 19	270 27	280 23	280 25	260 26	270 47	270 67	280 71	280 40	270 23					
	231100	P	250 10	+++ ++	260 21	280 22	290 18	290 23	280 29	260 32	270 42	270 44	280 72	270 60	270 43	270 20	240 17	270 11	200 03	110 07	030 04
	231730	P	250 08	+++ ++	250 23	260 33	260 33	240 38	250 33	250 41	250 49	250 55	250 77	260 70	260 44	260 32	280 16				
ALDERGROVE 03917	222330	T	260 08	+++ ++	260 15	270 13	260 12	250 13	270 25	270 29	280 31	280 50	290 66	290 73	290 45	280 25	280 16	280 12	330 03		
	230530	P	180 07	+++ ++	250 17	270 19	270 21	270 27	270 28	290 28	270 40	260 64	270 78	260 80	260 62	270 30	280 22				
	231130	T	180 10	+++ ++	260 22	260 27	260 26	250 26	260 34	260 38	260 42	260 70	260 83	260 82	250 60	260 26	260 14	250 10			
	231730	P	310 10	+++ ++	270 15	250 21	240 30	250 39	260 50	260 47	260 58	260 77	250 93	260 80	260 52						
AUGHTON 03322	222330	T	270 02	+++ ++	300 15	300 19	310 23	320 24	310 29	300 32	310 44	310 59	310 70	310 76	300 47	270 19					
	230530	P	000 00	+++ ++	270 16	270 22	280 21	270 19	260 20	260 28	280 44	280 51	280 67	280 83	290 47	290 26					
	231130	T	250 10	+++ ++	270 19	300 24	300 24	270 20	290 22	300 25	280 39	280 66	280 68	270 77	270 43	280 19	260 19				
	231730	P	230 06	+++ ++	250 21	260 23	270 23	290 25	280 30	270 29	270 39	260 64	260 74	270 82	270 56	280 36	280 18	260 06			
HEMSBY 03496	222330	T	260 07	+++ ++	310 11	310 13	320 19	310 18	320 40	320 46	320 56	320 69	330 88	320 71	310 33	290 24					
	230530	P	280 07	+++ ++	290 13	270 11	260 12	310 24	310 30	310 37	310 43	310 59	310 76	310 81	310 56	300 24	290 07	220 09			
	231130	T	280 12	+++ ++	280 17	290 22	290 18	270 14	270 24	290 36	290 51	300 61	290 70	290 78	290 48	270 22	260 14	270 10			
	231730	P	230 07	+++ ++	260 18	270 20	290 22	300 22	290 23	310 21	290 43	280 53	280 64	290 77	280 45	280 25	290 13	200 03			
CRAWLEY 03774	222330	T	260 05	+++ ++	320 15	320 14	320 13	310 36	300 44	300 50	300 49	330 72	330 77	320 74	310 45	300 22	300 15				
	230530	P	000 00	+++ ++	290 16	290 16	300 18	300 21	300 28	300 37	300 39	310 55	310 58	310 69	300 53	300 26	300 16				
	231130	P	250 04	+++ ++	270 13	270 17	300 19	290 22	290 24	290 32	280 51	290 58	290 55	290 64	290 53	280 26	280 08	280 10			
	231730	P	270 04	+++ ++	270 13	290 17	300 17	280 17	290 21	270 35	280 50	280 55	280 61	280 72	280 58	280 33	290 17	240 03			
CAMBORNE 03808	222330	T	240 03	+++ ++	290 14	290 18	290 20	300 21	280 21	290 29	300 41	300 48	300 52	300 62	300 44	290 28					
	230530	P	000 00	+++ ++	280 15	280 20	280 21	270 23	280 31	290 32	290 38	280 49	280 46	280 48	290 44	280 27	300 13	290 07			
	231130	T	240 10	+++ ++	280 15	290 21	300 19	290 25	280 27	270 42	270 43	270 49	270 46	270 59	270 48	270 24	270 15				
	231730	P	180 08	+++ ++	260 15	270 16	270 18	300 18	290 28	280 21	260 41	250 49	260 57	260 55	260 50	270 34	290 16				
VALENTIA 03953	222230	T	160 09	170 12	260 22	270 26	260 24	250 25	270 29	270 47	270 45	270 49	270 50	280 63	270 49	+++ ++					
	231200	T	240 10	240 15	260 22	260 23	260 24	260 28	260 30	270 40	250 51	250 66	250 72	260 82	260 72						
Ocean Weather Station 'I' 59°00'N 19°00'W	230100	P	270 30	+++ ++	250 33	250 30	240 33	220 36	220 44	220 49	220 80	210 70	220 52	220 49	220 32	220 25					
	230600	P	270 30	+++ ++	260 33	260 33	250 32	250 35	240 46	230 59	220 69	220 64	230 47	230 36	230 28						
	231200	T	240 28	+++ ++	240 33	240 32	240 30	240 31	240 30	230 30	230 32	230 45	240 45	240 42	240 31						
	231800	P	270 30	+++ ++	270 34	280 34	280 34	280 33	280 36	280 41	280 48	280 60	290 55	270 42	270 34	230 24	240 15	240 11			
Ocean Weather Station 'J' 52°30'N 20°00'W	230001	T	250 19	250 20	260 24	260 35	260 37	250 38	260 38	250 49	260 47	260 87	260 92	260 55	+++ ++	+++ ++					
	230600	P	320 14	+++ ++	260 26	240 31	240 36	240 49	240 56	250 55	250 60	250 76	240 81	260 88	250 58	250 39					
	231200	T	270 11	270 12	280 19	270 22	260 35	250 43	250 47	260 45	260 62	260 67	260 72	260 48							
	231800	P	290 16	+++ ++	290 20	270 27	290 23	270 27	270 34	270 41	250 51	250 53	250 63	260 53	260 47	290 31	300 15	300 10			
LARKHILL 03743	230630	P	240 05	+++ ++	290 17	280 15	300 18	290 21	280 26	290 38	290 40	290 49	290 62	300 65	300 61	290 31	300 15				
	231030	P	250 11	+++ ++	260 14	250 12	270 15	280 20	290 23	280 32	280 48	290 59	290 58	280 60	290 59	280 26	280 11	250 08			

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	16300m 280 14 035mb 250 07 22500m 230 05	310 64 10980m
STORNOWAY 03026	051mb 260 12 22200m 270 05 13650/1 15270/1 11190/1 12760/1	280 83 11500m 240 61 09760m 250 78 09830m
SHANWELL 03170	174mb 310 45 075mb 280 10 17920m 290 13 28800m 220 14 33000m 000 00 36000m 200 05 10530/0 11340/1 20100m 330 10	310 80 11440m 280 76 11710m 280 80 11120m 260 84 11180m
ALDERGROVE 03917	357mb 280 44 12240/1 13800/1 15000/1 342mb 262 57 129mb 270 39 14700m 260 36 09990/0 13050/1	290 74 11720m 260 93 11500m 260 92 11360m 250 99 11140m
AUGHTON 03322	185mb 310 63 085mb 280 20 10550/0 12360/1 12910/1 058mb 260 07	310 85 11170m 280 84 12110m 280 81 11660m 260 84 11700m
HEMSBY 03496	183mb 320 57 084mb 280 13 14400m 310 38 22500m 260 06 02730/2 11980/1 13820/1 13060/1	330 90 10590m 320 88 11730m 290 83 11720m 290 80 11640m
CRAWLEY 03774	166mb 320 60 063mb 310 09 20400m 260 01 14700m 290 35 22800m 280 04 13800/1 14170/1 21900m 230 09 04770/0 12750/1 13630/1 16940/1	330 87 11480m 310 70 11540m 290 67 12150m 280 73 12040m
CAMBORNE 03808	P18000m 280 20 20100m 250 07 06190/0	310 67 12050m
VALENTIA 03953		270 69 12910m 260 87 11900m
Ocean Weather Station 'J' 59°00'N 19°00'W	61300m 230 64 17700m 220 20 06800/0 09900/1 112mb 250 27 14700m 250 35 24900m 230 11 06300/0 15250/1	230 82 07010m 240 72 07670m 280 64 09970m
Ocean Weather Station 'J' 52°30'N 20°00'W	221mb 240 90 114mb 250 34 099mb 250 39 323mb 260 52 274mb 260 75 189mb 260 73 122mb 260 50 212mb 250 65 047mb 300 09	260 92 10590m 260 75 09880m
LARKHILL 03743	14400/0	300 68 12200m 280 68 12500m

NOTES ON THE AEROLOGICAL SITUATION

The low near south Greenland has moved east and the associated trough has advanced to south of Iceland. The downstream ridge has moved to the British Isles. The trough over Scandinavia and central Europe has moved southeast.

AVERAGE AND EXTREME VALUES 1951-55							
AUGUST							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22435	-47.1	-44	-56	201	3	7
60	19760	-48.1	-41	-54	213	4	9
100	16400	-48.3	-42	-57	235	9	14
150	13730	-48.4	-42	-63	242	13	24
200	11845	-49.7	-40	-64	243	16	34
300	9190	-44.7	-34	-53	232	17	41
400	7205	-30.0	-19	-39	230	15	33
500	5580	-18.4	-10	-27	229	13	27
700	2985	-2.7	4	-10	230	10	20
850	1425	4.8	16	-2	229	7	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		243	-54.8		10645		
Max.		367	-38		13990		
Min.		150	-66		7590		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22425	-49.2	-45	-56	158	2	6
60	19780	-50.8	-43	-57	224	3	9
100	16470	-52.4	-43	-62	267	13	18
150	13845	-52.3	-42	-69	273	23	31
200	11980	-52.4	-40	-63	274	29	43
300	9325	-42.4	-34	-52	271	27	45
400	7320	-27.2	-18	-37	270	23	36
500	5680	-15.7	-8	-24	267	20	30
700	3060	0.1	7	-6	262	14	22
850	1480	7.7	17	2	260	10	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		226	-55.9		11245		
Max.		343	-41		14235		
Min.		145	-67		8230		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22330)	(-55.6)	...	...	100	14	15
60	19780	-60.8	-54	-68	110	7	11
100	16655	-66.8	-58	-74	250	21	24
150	14175	-60.2	-53	-70	255	41	45
200	12345	-50.9	-44	-59	265	44	49
300	9620	-35.2	-29	-44	275	31	37
400	7555	-20.4	-16	-27	285	23	29
500	5865	-8.6	-4	-14	290	19	24
700	3170	8.9	13	1	310	15	19
850	1540	18.4	27	12	310	7	11
Tropo- pause		Average Press.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.	
Upper		mb.	°C	mb.	mb.	°C	
Lower		(195)	(-59.1)	...	...	...

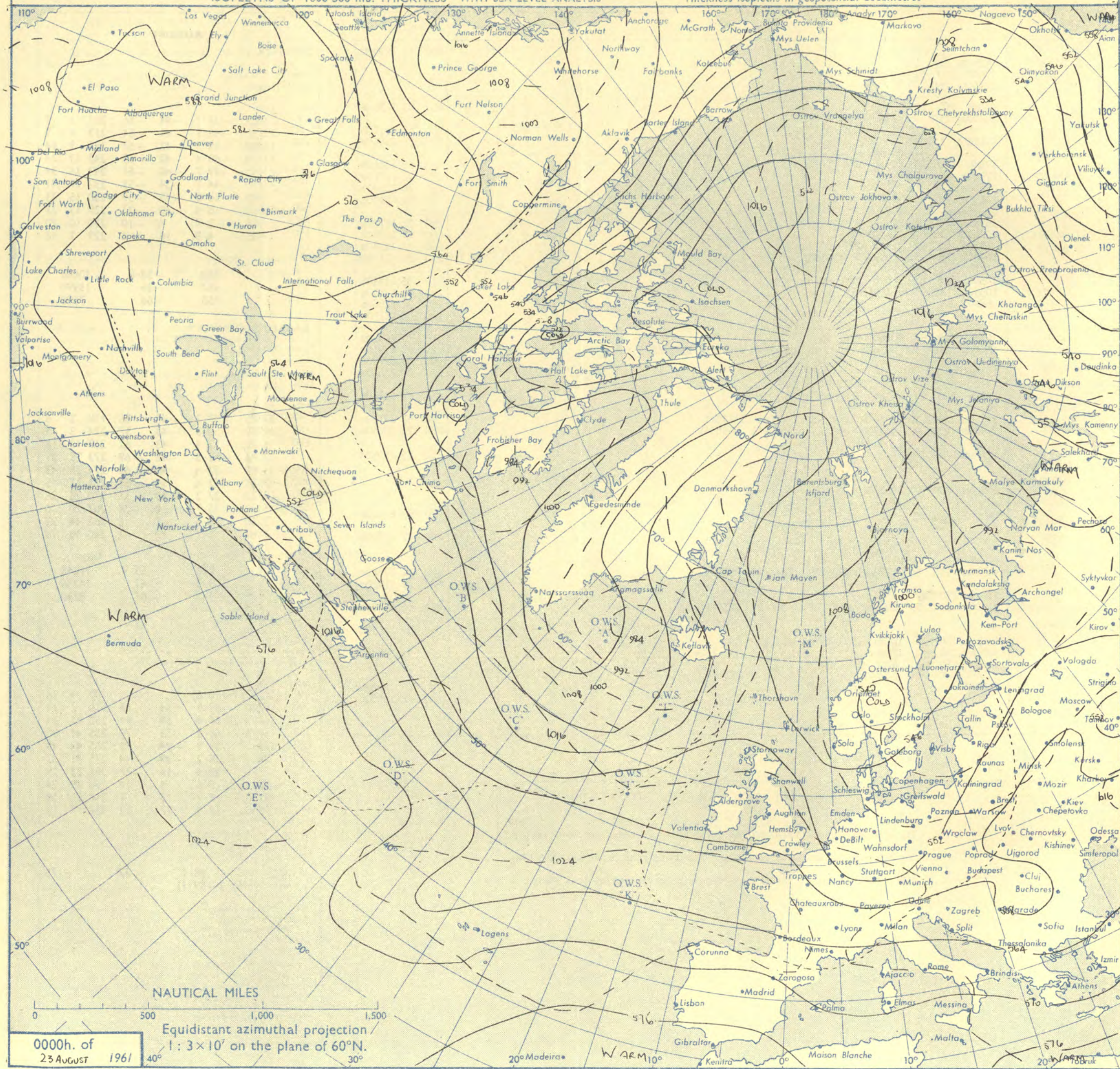
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

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

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

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

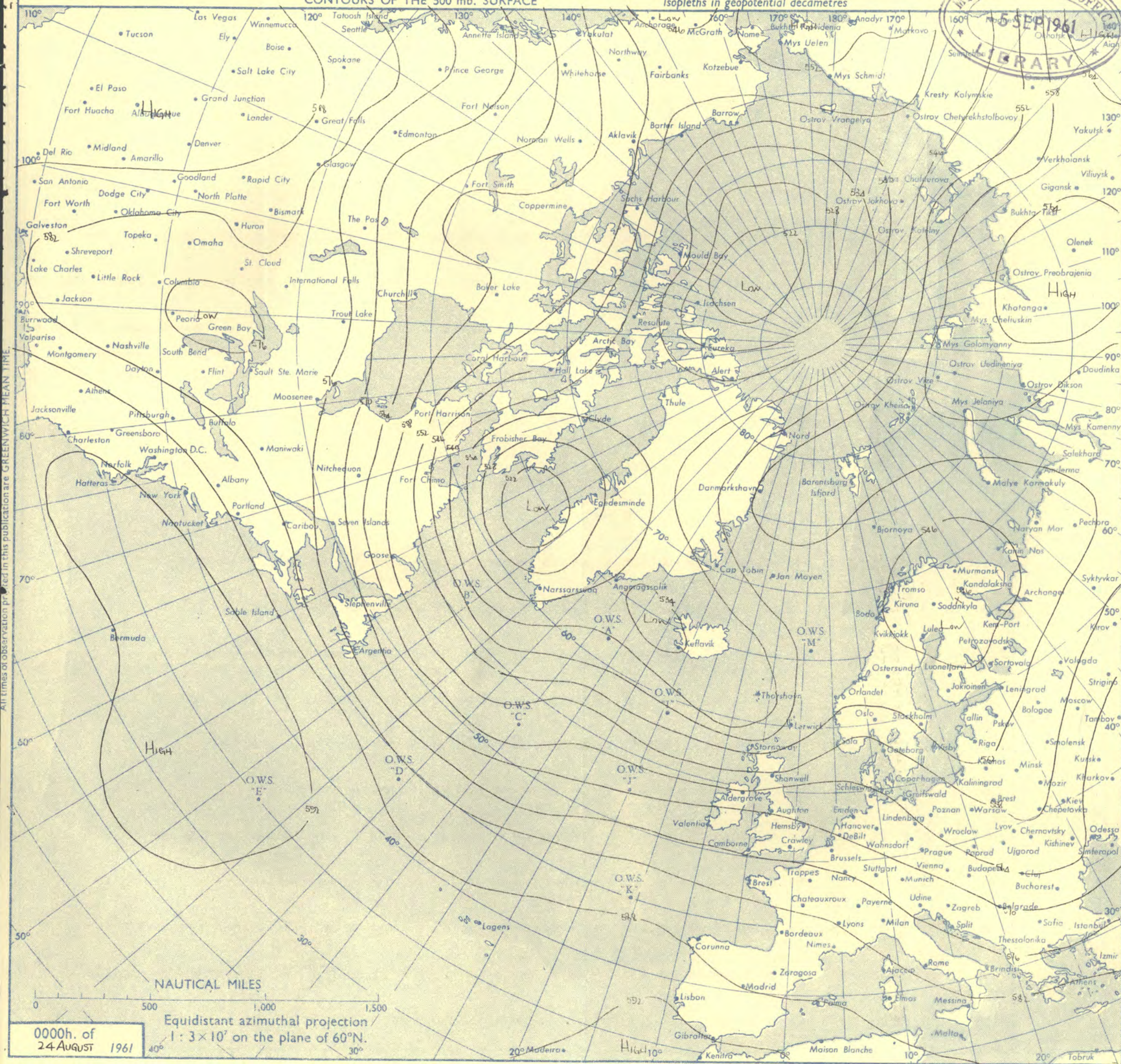
Thickness isopleths in geopotential decametres



15 SEP 1961
METEOROLOGICAL OFFICE
LIBRARY

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	°C	gpm	°C	°C	gpm	°C	°C						
LERWICK 03005	232330	082	10	09	062	++	++	1391	00	03	2925	06	25	5477	22	35	7078	34	46	9028	49		11651	49	13552	48	16229	48	18586	48										
	241130	082	13	07	078	++	++	1406	00	03	2932	10	20	5433	29	35	6994	40	45	8914	48	++	11627	44	13546	46	16242	47	18601	49	20810	49								
STORNOWAY 03026	232330	013	10	08	094	09	++	1413	01	++	2934	10	++	5438	27	++	7013	38	++	8954	47	++	11647	46	13552	48	16236	47	18590	49	20799	50								
	241134	013	14	07	119	11	01	1447	00	08	2974	08	27	5529	22	32	7132	32	41	9103	46	++	11727	49	13609	49	16283	47	18646	47	20871	48								
SHANWELL 03170	232330	005	08	06	109	10	06	1441	01	06	2998	01	24	5592	19	38	7210	32	49	9179	48	++	11795	50	13685	50	16340	48	18679	50	20881	49								
	241130	005	17	06	133	14	03	1470	01	02	3017	06	26	5586	21	31	7196	32	41	9168	45	++	11785	51	13660	50	16317	48	18656	51	20862	50	24221	48						
ALDERGROVE 03917	232330	077	09	08	135	10	08	1469	05	06	3035	01	29	5636	18	42	7262	31	++	9236	46	++	11851	53	13724	52	16369	49	18708	51	20895	51	24256	46						
	241130	077	14	05	154	12	03	1489	01	07	3048	01	17	5646	17	30	7287	26	32	9307	41	++	11937	58	13771	53	16401	51	18731	49	20922	51	24267	49						
AUGHTON 03322	232330	056	16	14	135	15	13	1497	08	06	3078	01	04	5691	18	28	7320	30	42	9312	44		11939	58	13776	55														
	241130	056	15	08	151	13	06	1491	07	11	3063	00	16	5665	18	32	7292	29	43	9287	44	++	11892	58	13729	54	16348	50	18671	51	20873	48								
HEMSBY 03496	232330	012	15	11	147	15	11	1508	08	06	3084	00	09	5697	16	22	7342	27	38	9362	40	++	12005	60	13817	55	16428	52												
	241130	012	16	16	135	15	13	1497	07	05	3070	02	04	5672	18	25	7303	30	37	9286	47	++	11896	54	13760	53	16378	51	18699	51										
CRAWLEY 03774	240035	144	15	13	170	14	12	1532	08	06	3110	01	03	5735	14	37	7385	26	29	9410	40	46	12054	60	13848	57	16425	55	18706	54										
	241130	144	17	15	156	17	15	1521	08	04	3098	01	09	5713	17	21	7347	30	37	9336	44	++	11964	53	13810	54	16424	52	18739	50										
CAMBORNE 03808	232330	088	16	16	179	15	14	1543	08	06	3123	01	03	5738	17	19	7382	26	31	9401	41	++	12023	62	13820	58	16374	57	18641	57										
	241130	088	17	16	166	16	15	1529	08	07	3112	00	06	5732	14	35	7397	24	34	9327	40	46	12058	61	13866	56	16449	54												
VALENTIA 03953	232330	014	14	13	150	13	12	1514	09	06	2990	00	01	5720	17	21	7350	30	39	9330	45	++	11950	54	13800	54														
	241138	014	15	13	149	13	11	1503	08	07	3083	00	01	5720	15	29	7380	24	30	9410	39	44	12060	60	13870	56	16460	53	18770	52										
Ocean Weather Station 'I' 59°00'N 19°00'W	240001		12	08	072	11	07	1395	01	03	2918	08	23	5460	23	28	7060	34	40	9010	49	++	11650	48	13550	47	16230	47												
	241200		12	08	078	11	08	1404	01	01	2947	07	12	5500	19	22	7140	28	31	9140	44	++	11750	54	13610	52	16250	49	18590	47	20800	50								
Ocean Weather Station 'J' 52°30'N 20°00'W	240001		12	08	162	10	05	1490	01	04	3050	01	21	5650	17	41	7290	27	39	9310	41	++	11950	55	13810	51	16450	50	18800	48	21010	48								
	241200		13	08	118	14	07	1450	06	06	3033	02	26	5680	11	11	7350	23	23	9400	38	45	12050	58	13890	53	16500	51	18840	47	21060	46	24480							

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _h C _L hC _M C _H	PRESSURE																											TROPOPAUSE							
		MSL	Surf.	0°C level																										mb	m	°C				
LERWICK 03005	25 684++	008	998	850	979	++	06	900	04	01-	781	05-	07-	753	++	07-	729	04-	17-	690	++	28-	618	13-	37-	600	++	39-	565	++	31-	530	253	10130	55-	
	03 48431	009	999	851	992	11	06	955	++	04	902	++	01-	835	01-	04-	693	++	21-	668	++	22-	654	++	20-	643	14-	23-	550	++	33-	492	341	08050	48-	
STORNOWAY 03026	80 53400	011	010	863	841	02-	++	786	04-	++	571	21-	++	544	22-	++	381	40-	++	366	42-	342	42-	297	46-	250	46-	236	45-	084	48-	297	09010	48-		
	02 32600	014	013	851	004	12	03	917	++	01-	846	++	09-	794	04-	07-	745	++	22-	665	++	31-	636	10-	26-	555	++	26-	525	++	32-	455	244	10440	56-	
SHANWELL 03170	02 24500	013	013	725	992	11	06	942	++	00	880	++	01	835	01	09-	797	02	19-	700	01-	24-	399	32-	49-	289	50-	250	55-	239	56-	196	239	10630	56-	
	02 41602	016	015	788	005	14	03	960	++	01	851	01	02-	832	03	05-	828	++	08-	755	++	20-	665	08-	29-	644	08-	28-	584	12-	22-	466	236	10730	57-	
ALDERGROVE 03917	01 00900	016	007	712	992	10	07	936	07	02	871	03	00	858	++	06-	850	05	06-	792	04	17-	700	++	29-	668	03-	26-	479	20-	44-	368	235	10820	56-	
	02 25501	018	009	805	994	11	03	958	++	03	877	++	04-	862	++	04-	852	02	06-	838	++	11-	812	++	10-	803	00	12-	782	02	16-	736	01	213	11550	59-
AUGHTON 03322	50 864++	016	009	709	587	09-	12-	578	09-	12-	540	13-	21-	403	29-	41-	322	40-	50-	250	51-	205	59-	188	54-	142	55-	124	51-	103	205	11800	59-			
	03 21502	018	011	702	994	12	05	899	05	02	875	07	06-	846	07	11-	798	++	17-	764	03	13-	703	00	16-	529	15-	30-	379	33-	46-	321	212	11520	61-	
HEMSBY 03496	02 755++	017	016	708	937	12	10	861	++	06	795	04	03	730	01	02-	693	++	13-	661	02-	08-	537	11-	17-	489	++	26-	405	26-	37-	301	191	12300	62-	
	55 872++	016	014	732	993	14	12	633	++	09-	571	11-	21-	527	15-	22-	333	40-	47-	290	49-	250	54-	220	58-	183	50-	137	55-	127	52-	220	11280	58-		
CRAWLEY 03774	03 5563+	020	003	715	922	11	09	913	12	09	812	05	03	790	++	01	776	04	01	693	01-	03-	660	02-	05-	574	09-	13-	547	10-	26-	501	++	187	12460	63-
	01 774++	019	002	712	990	15	13	898	10	07	880	++	07	838	++	03	801	04	02	719	++	03-	700	++	09-	670	++	06-	655	04-	08-	624	07-	239	10830	56-
CAMBORNE 03808	60 873++	021	010	711	790	++	03	780	++	01-	728	++	04-	713	++	03-	668	++	04-	633	++	09-	526	14-	15-	429	24-	27-	423	23-	26-	414	189	12370	63-	
	50 662++	019	009	703	992	15	13	841	07	06	818	07	03	797	++	00	642	++	10-	638	++	13-	615	++	12-	606	++	17-	579	++	14-	571	10-	196	12180	62-
VALENTIA 03953	01 763++	018	016	700	818	08	03	662	03-	05-	605	07-	10-	517	15-	21-	470	21-	24-	347	38-	47-	250	54-	247	55-	103	53-				247	10600	55-		
	02 12538	019	016	700	944	10	08	911	10	02	902	10	05	884	09	08	815	06	05	782	04	03	675	01-	02-	595	05-	24-	528	11-	32-	481	17-	190	12400	62-
Ocean Weather Station 'I' 59°00'N 19°00'W	01 32730	009	009	862	925	04	01	859	++	02-	812	04-	07-	789	04-	09-	762	06-	13-	708	++	22-	660	++	28-	627	12-	25-	506	++	18-	449	252	10100	55-	
	02 855++	009	009	810	913	03	02	863	01	01-	833	01	02-	724	05-	11-	658	++	11-	599	14-	17-	514	20-	23-	494	18-	21-	456	21-	24-	413	214	11300	63-	
Ocean Weather Station 'J' 52°30'N 20°00'W	52500	019	019	710	870	01	04-	850	01	04-	820	02	07-	710	00	20-	655	04-	26-	584	11-	36-	517	15-	40-	418	25-	47-	391	27-	39-	215	11500	58-		
	58430	013	013	656	950	08	08	910	05	05	887	04	02-	865	06	06	785	02	02	770	02	14-	725	02	26-	665	01	13-	570	08-	08-	474	13-	203	12000	59-

STATION	YYGGgg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	232330	T	260 10	+++ ++	270 17	270 16	260 17	230 16	210 37	200 46	210 54	220 60	220 57	220 42	210 24	260 17	250 12				
	240530	P	250 06	+++ ++	250 20	250 22	250 22	250 22	260 27	260 30	260 28	240 34	240 36	250 25	250 25						
	241130	T	270 20	+++ ++	290 23	280 22	280 23	290 27	280 28	280 36	290 29	290 63	290 48	270 34	270 23	250 14	250 10	260 12			
	241130	P	260 15	+++ ++	280 23	280 20	280 23	280 21	290 28	290 47	290 71	300 85	300 69	280 46	290 30	290 14	290 11	290 03			
STORNOWAY 03026	232330	T	240 10	+++ ++	270 26	260 30	250 35	260 37	260 42	260 52	250 77	250 95	250 62	250 42	250 33	250 18	250 13				
	240530	P	250 08	+++ ++	280 26	280 28	280 29	280 31	280 36	280 52	290 70	300 86	290 63	280 42	270 37	280 20	280 17	290 01			
	241134	T	250 18	+++ ++	270 20	260 22	250 21	260 26	280 35	280 47	280 54	290 76	290 83	290 53	280 35	280 17	260 16	270 11			
	241730	P	250 14	+++ ++	250 16	250 15	260 15	280 23	270 28	270 35	290 54	290 75	290 74	290 61	290 45	280 23	260 13	320 05			
SHANWELL 03170	232330	T	230 07	+++ ++	290 19	280 19	260 34	250 41	250 43	250 52	250 59	250 63	250 71	250 56	250 40	260 21	270 13	280 13			
	240530	P	210 05	+++ ++	290 21	300 21	290 18	290 22	280 49	270 59	260 64	260 70	270 63	270 47	270 33	260 27	280 13	050 02			
	241130	T	270 10	+++ ++	280 12	280 13	280 12	280 26	280 42	270 42	280 52	300 75	300 82	290 58	290 34	290 15	240 16	260 10	070 08	P100 07	
	241730	P	260 10	+++ ++	270 13	260 08	260 13	270 28	270 35	270 40	280 54	290 75	290 77	290 67	290 44	290 23					
ALDERGROVE 03917	232330	T	280 05	+++ ++	300 18	280 25	270 33	260 36	260 38	260 42	250 50	250 59	250 68	260 62	260 42	260 36	250 16	270 04	050 02		
	240530	P	190 05	+++ ++	330 13	310 14	290 23	280 33	280 34	280 34	280 41	290 49	290 52	280 51	280 41	270 26	270 14				
	241130	T	240 04	+++ ++	310 04	260 08	260 14	280 25	270 28	270 35	280 48	290 57	290 62	300 66	290 43	280 30	260 12	260 12	340 05		
	241730	P	210 04	+++ ++	230 10	240 11	250 18	260 21	270 28	280 36	290 44	290 55	300 70	290 60	290 45	290 30					
AUGHTON 03322	232330	T	220 08	+++ ++	260 23	270 26	270 24	270 32	260 36	270 47	260 60	250 83	260 80	260 54	260 54						
	240530	P	300 05	+++ ++	310 14	280 23	270 22	260 30	260 34	260 38	260 54	250 54	260 52	270 51	270 45	270 26					
	241130	T	320 08	+++ ++	320 10	300 10	280 17	280 18	280 22	280 29	280 38	310 61	310 68	300 58	290 39	290 26	260 12	270 09			
	241730	P	320 03	+++ ++	260 10	260 14	270 17	270 22	270 28	280 34	290 41	290 48	300 61	300 52	290 49	290 31	280 13	280 09			
HEMSBY 03496	232330	T	230 07	+++ ++	270 15	280 15	300 19	310 15	290 20	280 24	270 37	270 68	260 76	260 85	270 54	270 25					
	240530	P	210 10	+++ ++	280 16	290 15	280 18	260 20	270 24	270 25	270 34	260 45	250 74	260 66	270 52	270 30	290 10				
	241130	T	290 05	+++ ++	270 12	270 14	260 17	270 24	280 25	260 32	260 39	270 40	290 37	280 49	270 39	270 25	280 12				
	241730	P	010 04	+++ ++	280 10	270 17	270 23	280 19	280 24	280 32	300 39	300 50	310 53	310 51	290 40	280 27	280 13	290 09			
CRAWLEY 03774	232330	P	250 02	+++ ++	290 16	290 14	300 14	310 15	300 12	290 21	270 43	260 54	260 58	260 61	270 55	270 37					
	240538	P	000 00	+++ ++	260 19	270 18	270 15	280 16	280 14	270 22	280 33	260 48	250 63	250 62							
	241130	T	230 08	+++ ++	260 16	270 21	270 22	260 25	280 27	280 30	280 31	330 65	320 68	290 49	280 42	270 27	P310 12				
	241730	P	250 05	+++ ++	270 16	280 16	280 17	280 20	280 24	300 32	300 41	300 47	300 56	310 54	290 37	290 27					
CAMBORNE 03808	232330	T	240 07	+++ ++	270 18	270 17	280 16	270 13	250 15	270 28	260 43	250 54	250 57	250 60	260 52						
	240530	P	220 10	+++ ++	260 20	270 22	270 22	280 22	280 20	280 28	290 44	300 53	290 57	280 51	280 49	280 36	280 15				
	241130	T	270 14	+++ ++	260 17	270 18	290 16	280 30	280 30	290 34	290 39	300 40	310 51	310 51	290 36	280 26					
	241730	P	240 09	+++ ++	270 19	270 25	270 22	270 23	270 28	280 34	290 43	290 42	300 55	290 45	300 34	290 28	290 13				
VALENTIA 03953	240001	P	360 05	+++ ++	300 15	270 20	260 19	260 29	250 36	260 39	270 48	290 62	290 64	270 61	270 48	280 31					
	241138	T	150 07	150 08	170 11	240 13	250 17	250 33	260 36	270 41	270 49	280 48	270 54	270 58	280 41	280 27	280 19				
Ocean Weather Station 'I' 59°00'N 19°00'W	240001	T	240 28	+++ ++	250 30	260 30	270 31	270 34	270 47	280 57	280 61	280 80	280 83	290 64	280 39	270 24					
	240600	P	270 20	+++ ++	250 29	260 27	280 28	280 29	270 27	270 34	260 46	270 72	280 72	290 53	270 41						
	241200	T	220 17	+++ ++	220 15	210 12	210 13	230 18	230 30	250 34	260 48	260 63	270 60	260 54	270 45	280 24	260 13	260 09			
	241800	P	135 20	+++ ++	160 17	160 19	170 21	180 26	210 22	230 32	250 40	240 46	240 55	250 58	250 53	250 24	260 18				
Ocean Weather Station 'J' 52°30'N 20°00'W	240001	T	300 12	300 12	280 12	270 13	270 18	250 19	260 30	260 38	280 59	290 73	300 69	310 80	290 41	280 29	280 18				
	240600	P	230 12	+++ ++	240 14	240 15	240 15	250 17	250 25	260 38	280 57	270 55	270 63	270 64	270 46	270 29					
	2412000	T	160 16	160 17	190 21	200 24	210 30	210 28	250 35	260 36	260 44	260 54	270 54	270 62	270 30	270 28	270 20				
	241800	P	150 26	+++ ++	190 49	200 47	200 43	220 46	220 44	230 45	230 44	230 33	220 59	220 58	230 49						
LARKHILL 03743	240630	P	230 06	+++ ++	280 22	280 25	280 24	270 21	250 23	260 18	270 33	290 40	270 50	270 55	270 43	270 33	270 18				
	241030	P	250 10	+++ ++	260 14	260 17	280 16	270 27	270 28	270 27	290 36	320 63	320 70	290 54	290 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					
241147	52°0'N 24°5'W	002	995	660	061	15 12	015	++ ++	917	13 13	1400	10 06	1899	09 04	07 09-	2990	03 11-	01- 05-	4218	05-09-	09- ++	5627	14- 16-
Cloud :— 6/8 St. 500 to 2200ft; 7/8 Sc. 2500 to 4500ft; 2/8 Cu. 2500 to 6000ft; 4/8 Ac. 15000 to 16000ft; 7/8 Cs. 25000ft to TNG.																							
Inversion Levels :—										Isothermal Levels :— 995mb to 951mb 5°C to 5°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					
241316	49°3'N 19°8'W	010	003	650	061	16 16	082	15 15	978	14 13	1457	11 11	1963	08 08	05 05	3170	03 01	00 ++	4295	05- ++	09- ++	5703	13- ++
Cloud :— 3/8 St. 1000 to 1500ft; 5/8 Sc. 1800 to 3200ft; 5/8 Sc. 6000 to 8000ft; 1/8 Cu. HNG. to 10000ft; 7/8 Ac. 15000 to 16000ft; 3/8 Cl. 22000ft to TNG; 3/8 Cl. 30000 to 30000ft.																							
Inversion Levels :—										Isothermal Levels :— 1003mb to 958mb 16°C to 16°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	060mb 260 12 15600m 250 19 045mb 280 07 23100m 290 04	220 63 09980m 290 69 08900m 290 88 09120m
STORNOWAY 03026	051mb 260 06 05290/0 05760/0 10110/1 10610/1 048mb 280 09 21500m 290 05 07660/0 12370/1 13480/1	250 99 08190m 300 87 09170m 290 85 10160m 290 77 09490m
SHANWELL 03170	23280m 220 10 03280/1 12850/1	250 72 10610m 260 72 09140m 300 86 10310m 290 80 10200m
ALDERGROVE 03917	15100/1 10400/0 11000/1 12150/1	250 75 11080m 290 69 12280m 300 84 10700m
AUGHTON 03322	108mb 260 37 347mb 300 50 116mb 270 32 043mb 220 04 21600m 290 06	260 88 11780m 300 72 11130m 300 63 10710m
HEMSBY 03496	354mb 270 52 20100m 310 04 09560/0 21660m 110 02 12000/1	270 87 11880m 250 81 11020m 310 69 11260m
CRAWLEY 03774	17400m 280 23 13200m 250 56 19200m 290 09	260 66 12710m 240 72 10990m 320 72 10740m 310 66 11540m
CAMBORNE 03808	113mb 260 37 19800m 280 06 13250/1 15840/1 085 mb 280 21 11800/1	250 63 12210m
VALENTIA 03953	00300m 330 11 00600m 320 12 16800m 280 25	290 65 10800m
Ocean Weather Station 'I' 59°00'N 19°00'W	181mb 290 53 082mb 260 20 14400m 270 26 08400/0 12100/1 355mb 260 60 038mb 000 00 12600m 250 47 19800m 270 08 03990/2	280 87 09800m 280 81 11120m 270 52 08590m 250 63 11100m
Ocean Weather Station 'J' 52°30'N 20°00'W	062mb 280 11 090mb 270 27 665mb 250 32 456mb 260 35 077mb 270 28 057mb 270 14 233mb 220 68 173mb 230 65 120mb 220 49	310 85 11500m 270 62 12050m
LARKHILL 03743	02370/0	320 76 09700m

NOTES ON THE AEROLOGICAL SITUATION

A strong westerly flow extends from eastern Canada to central Europe and troughs and ridges are moving rapidly eastwards in this flow. The low near Iceland is filling as it drifts northeast while another deep low is moving southeast over the Davis Strait.

AVERAGE AND EXTREME VALUES 1951-55

AUGUST

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

Press. Level	Average Height Temp.	Extreme Temps. Max. Min.	Wind* V _R V _S
mb.	gpm. °C	°C °C	° Kt. Kt.
40	22435	-47.1 -44 -56	201 3 7
60	19760	-48.1 -41 -54	213 4 9
100	16400	-48.3 -42 -57	235 9 14
150	13730	-48.4 -42 -63	242 13 24
200	11845	-49.7 -40 -64	243 16 34
300	9190	-44.7 -34 -53	232 17 41
400	7205	-30.0 -19 -39	230 15 33
500	5580	-18.4 -10 -27	229 13 27
700	2985	-2.7 4 -10	230 10 20
850	1425	4.8 16 -2	229 7 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height Temp.	Extreme Temps. Max. Min.	Wind* V _R V _S
mb.	gpm. °C	°C °C	° Kt. Kt.
40	22425	-49.2 -45 -56	158 2 6
60	19780	-50.8 -43 -57	224 3 9
100	16470	-52.4 -43 -62	267 13 18
150	13845	-52.3 -42 -69	273 23 31
200	11980	-52.4 -40 -63	274 29 43
300	9325	-42.4 -34 -52	271 27 45
400	7320	-27.2 -18 -37	270 23 36
500	5680	-15.7 -8 -24	267 20 30
700	3060	0.1 7 -6	262 14 22
850	1480	7.7 17 2	260 10 18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

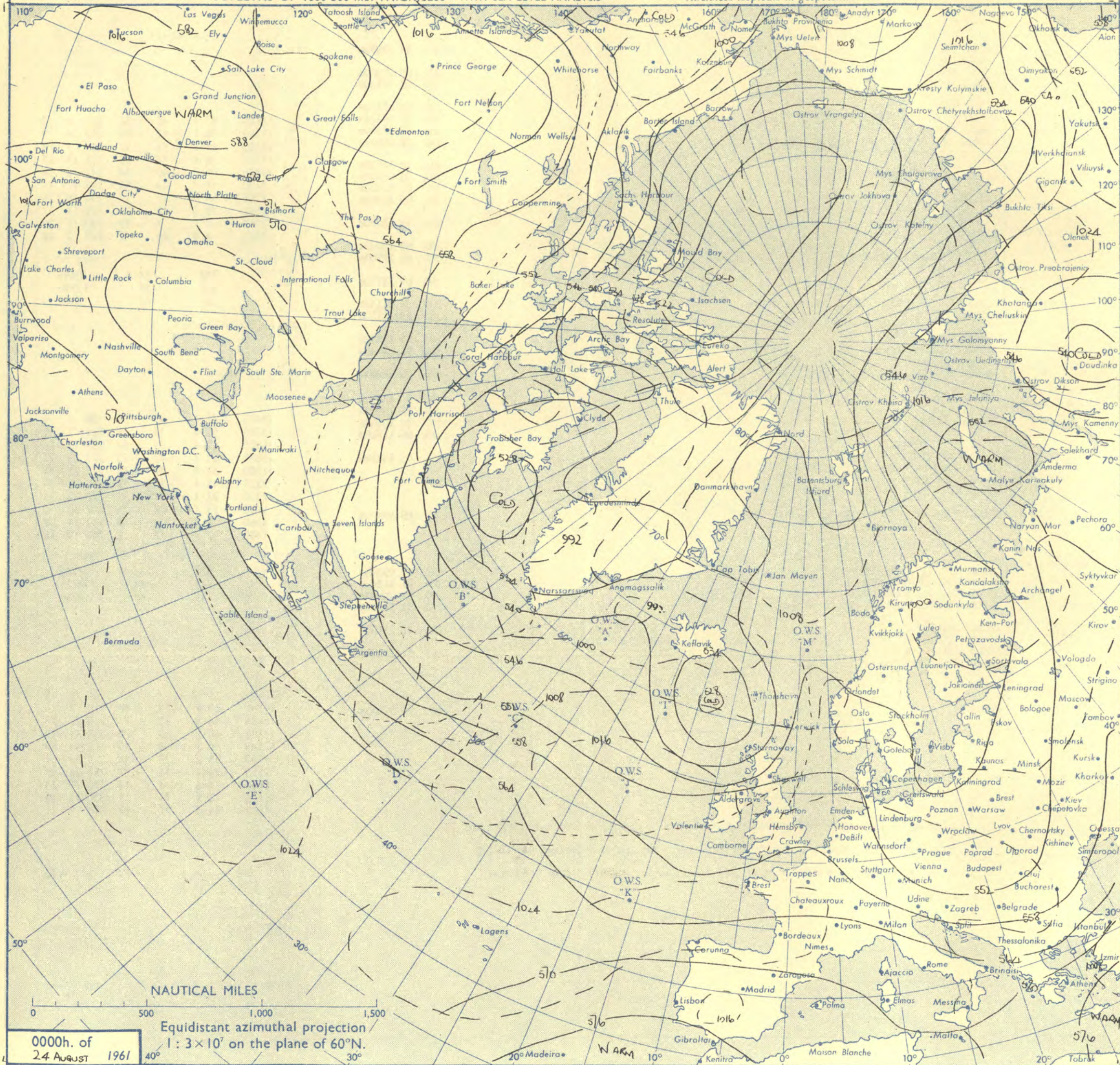
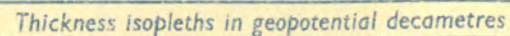
Press. Level	Average Height Temp.	Extreme Temps. Max. Min.	Wind* V _R V _S
mb.	gpm. °C	°C °C	° Kt. Kt.
40	(22330) (-55.6)	... ...	100 14 15
60	19780 -60.8	-54 -68	110 7 11
100	16655 -66.8	-58 -74	250 21 24
150	14175 -60.2	-53 -70	255 41 45
200	12345 -50.9	-44 -59	265 44 49
300	9620 -35.2	-29 -44	275 31 37
400	7555 -20.4	-16 -27	285 23 29
500	5865 -8.6	-4 -14	290 19 24
700	3170 8.9	13 1	310 15 19
850	1540 18.4	27 12	310 7 11

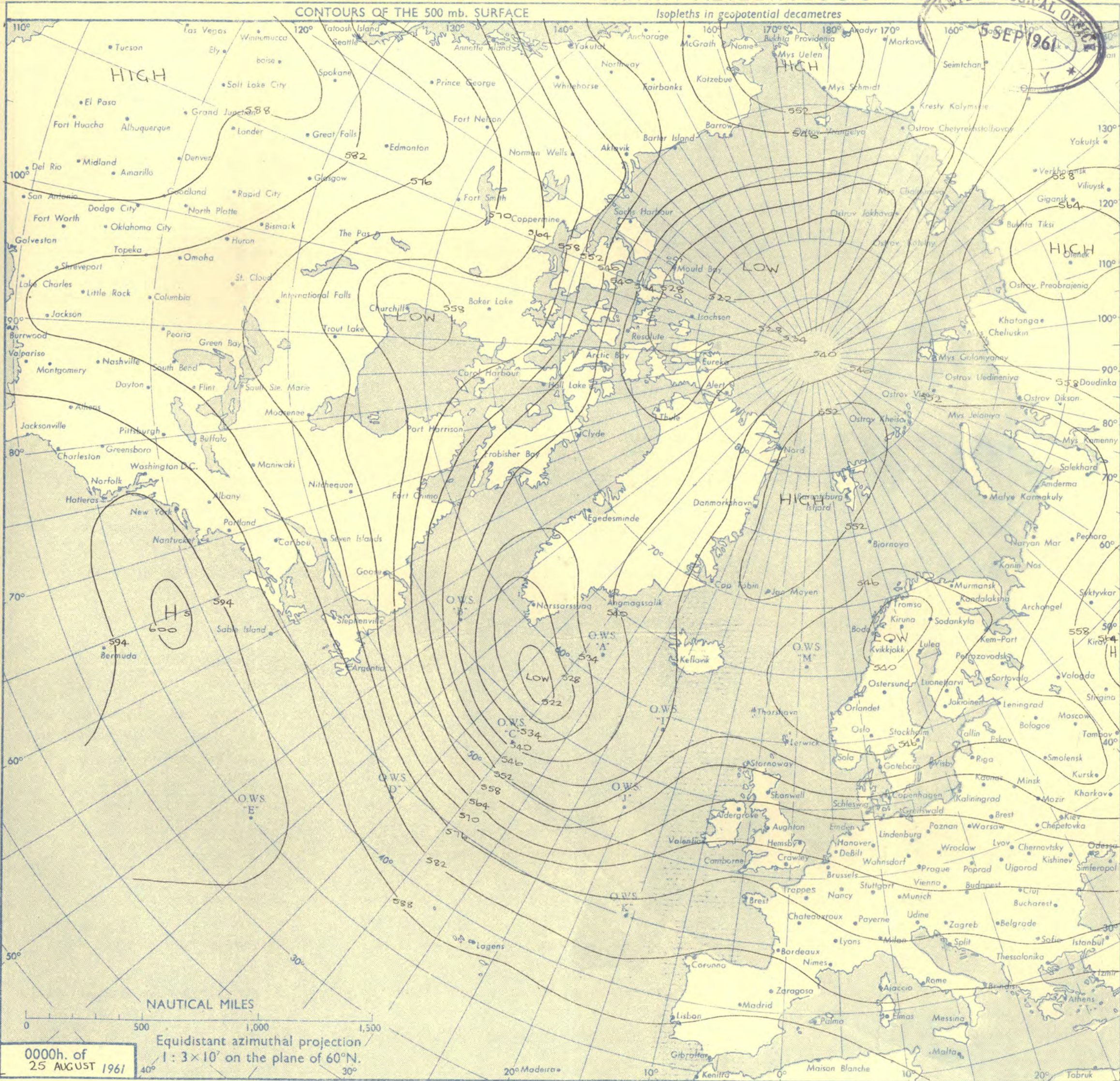
Tropopause	Average Press. Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	mb. °C	mb.	mb.	°C	°C
Lower	102 -68.1	...	72	...	-75
	(195) (-59.1)	...	...	...	...

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

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

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





STATION	YYGGgg	SURFACE			1000mb			850mb			700mb			500mb			400mb			300mb			200mb			150mb			100mb			70mb			50mb			30mb		
		gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C				
LERWICK 03005	242330	082	10	08	099	10	08	1428	01	02-	2965	09-	12-	5503	23-	33-	7108	32-	40-	9098	44-	++	11727	53-	13615	49-	16285	48-	18641	48-	20854	50-								
	251130	082	13	09	048	++	++	1377	00	04-	2927	06-	13-	5521	17-	20-	7161	28-	32-	9166	43-	++	11765	61-	13596	53-	16219	51-	18554	51-										
STORNOWAY 03026	242330	013	09	08	110	10	07	1439	00	05-	2991	04-	15-	5576	16-	19-	7218	28-	32-	9214	44-	++	11817	58-	13659	53-	16281	51-	18620	49-	20822	49-								
	251130	013	13	13	021-	++	++	1334	08	08	2916	00	01-	5534	15-	18-	7188	25-	29-	9212	41-	++	11855	58-	13698	51-	16329	53-	18642	49-	20855	49-								
SHANWELL 03170	242330	005	05	04	123	12	06	1457	01	03-	3013	02-	15-	5616	14-	19-	7264	27-	32-	9271	43-	++	11886	61-	13718	53-	16338	52-	18668	50-	20871	50-								
	251130	005	11	11	051	11	09	1403	08	06	2982	00	02-	5614	13-	17-	7276	24-	29-	9306	40-	46-	11932	64-	13745	53-	16359	51-	18686	51-	20889	49-	24244	48-						
ALDERGROVE 03917	242330	077	10	05	116	11	06	1461	08	06	3037	01	07-	5657	15-	18-	7318	24-	30-	9339	41-	++	11977	61-	13786	55-	16379	52-	18697	51-	20893	51-								
	251130	077	17	16	038	++	++	1410	10	08	3002	02	00	5646	13-	19-	7313	24-	29-	9355	38-	44-	12010	61-	13830	45-	16434	54-	18742	51-	20930-	51-	24250	51-						
AUGHTON 03322	242330	056	11	09	139	12	07	1482	08	16-	3054	02-	04-	5662	15-	20-	7312	26-	34-	9332	43-	++	11937	65-	13722	58-	16284	56-												
	251130	056	19	13	102	18	14	1469	08	06	3061	01	04-	5698	12-	16-	7374	23-	29-	9416	39-	45-	12077	61-	13858	58-	16430	57-	18708	54-										
HEMSBY 03496	242330	012	10	09	152	12	08	1498	06	02	3077	01	20-	5691	17-	25-	7347	26-	32-	9364	42-	++	11989	62-	13802	56-	16393	54-	18696	52-	20879	51-								
	251130	012	20	15	132	18	14	1503	09	06	3091	01	03-	5728	13-	29-	7389	25-	31-	9427	40-	47-	12063	62-	13836	58-	16396	57-	18679	54-										
CRAWLEY 03774	242330	144	16	15	157	15	14	1525	10	04	3114	01	03-	5738	15-	37-	7398	25-	31-	9435	39-	++	12070	62-	13873	56-														
	251130	144	18	16	154	18	15	1518	09	08	3102	02	10-	5752	11-	29-	7415	25-	34-	9448	39-	47-	12092	61-	13892	56-	16467	55-												
CAMBORNE 03808	242330	088	16	16	160	15	14	1522	10	06	3111	02	14-	5752	13-	18-	7419	23-	28-	9457	40-	46-	12084	63-	13873	56-	16438	57-	18724	54-	20901	51-	24259	47-						
	251130	088	17	16	142	16	14	1505	08	05	3093	04	05-	5746	10-	34-	7421	23-	40-	9470	38-	++	12127	60-	13922	56-	16482	57-	18755	54-	20923	51-								
VALENTIA 03953	242330	014	17	16	104	17	16	1473	09	08	3064	02	06-	5710	13-	21-	7370	24-	27-	9410	34-	42-	12050	63-	13850	56-	16430	57-	18710	53-	20880	52-								
	251130	014	17	16	057	16	15	1425	09	08	3011	00	04-	5640	15-	40-	7290	25-	36-	9320	42-	++	11940	58-	13770	54-	16370	52-												
Ocean Weather Station 'I' 59°00'N 19°00'W	250001		12	08	20-	++	++	1312	01	00	2865	03-	20-	5480	15-	16-	7130	26-	33-	9140	42-		11780	52-	13670	48-	16350	47-	18710	47-										
	251200		12	11	184-	++	++	1163	05	04	2730	02-	19-	5320	19-	37-	6940	32-	47-	8920	45-	++	11630	44-	13550	46-	16250	47-	18610	47-	20830	48-								
Ocean Weather Station 'J' 52°30'N 20°00'W	250001		15	14	32-	++	++	1335	09	07	2926	02	26-	5560	14-	39-	7220	24-	47-	9260	38-	59-	11940	52-	13820	50-	16470	51-	18800	48-	21020	48-	24390	46-						
	251200		14	11	000	++	++	1350	03	02-	2912	01-	06-	5530	16-	22-	7170	27-	35-	9190	41-	++	11860	47-	13770	46-	16470	45-	18830	44-	21060	43-	24520	40-						

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _h C _L hC _M C _H	PRESSURE			TROPOPAUSE	
		MSL	Surf.	0°C level		
					mb * m °C	
LERWICK 03005	02 656++	012 002 841	990 ++ 07 928 ++ 02 868 ++ 03- 836 00 02- 830 ++ 01- 794 ++ 12- 789 01- 11- 763 ++ 08- 734 ++ 09- 648 ++ 17- 640 15- 21- 630 12- 23- 590 14- 30- 573 ++ 33- 540 ++ 28- 459 27- 37- 343 37- 46- 323 40- 48- 250 53- 236 56- 182 48- 100 48- 050 50-			236 10600 56-
	02 784++	006 996 772	983 09 05 923 04 03 909 05 00 902 ++ 02- 856 00 05- 848 ++ 04- 825 02 11- 783 01 08- 675 09- 14- 663 06- 10- 647 06- 09- 544 13- 15- 355 33- 38- 318 40- 45- 250 54- 210 63- 167 53- 100 51- 081 49- 060 51-			210 11460 63-
STORNOWAY 03026	02 00907	013 012 767	009 11 09 910 ++ 00 847 00 05- 815 ++ 07- 782 01 08- 616 ++ 21- 551 14- 18- 543 13- 16- 448 22- 25- 324 40- 44- 250 54- 209 62- 182 55- 086 49- 040 49-			209 11530 62-
	51 873++	998 996 702	986 11 11 899 10 10 678 02- 03- 665 ++ 04- 638 ++ 14- 609 08- 18- 579 08- 12- 516 13 16 303 40- 45- 250 50- 229 55- 200 58- 137 49- 114 53- 084 53- 059 48- 043 49-			200 11855 58- 114 15490 53-
SHANWELL 03170	02 00905	015 014 745	005 12 08 000 ++ 06 838 00 04- 806 03 13- 785 ++ 18- 764 ++ 11- 734 ++ 12- 710 ++ 15- 638 06- 21- 612 ++ 22- 560 13- 21- 529 12- 17- 437 ++ 26- 350 ++ 39- 315 40- 45- 250 52- 204 62- 174 54- 100 52- 083 49- 051 50- 045 47-			204 11770 62-
	61 8052+	006 006 709	988 ++ 07 976 08 06 946 10 08 886 10 08 688 01- 03- 647 03- 05- 454 18- 23- 303 40- 46- 250 51- 194 65- 189 65- 183 58- 177 56- 138 53- 112 55- 100 51- 0303 48-			194 12120 65-
ALDERGROVE 03917	03 756++	014 005 693	993 13 07 958 ++ 05 900 07 05 880 ++ 03 868 06 01 860 ++ 01 852 08 05 850 ++ 06 778 03 01 763 ++ 00 732 ++ 12- 720 ++ 03- 705 01- 13- 692 ++ 03- 672 02- 04- 634 04- 18- 598 ++ 08- 512 ++ 16- 416 22p 28- 338 ++ 39- 290 42- 250 55- 204 61- 183 63- 177 58- 090 51- 040 50-			183 12510 63-
	60 6642+	005 996 672	874 10 08 844 ++ 08 831 ++ 07- 824 10 02- 791 ++ 06 739 04 03 687 ++ 01- 639 ++ 10- 570 ++ 12- 522 11- 15- 496 ++ 19- 452 ++ 21- 405 23- 27- 366 29- 34- 298 33- 44- 250 48- 213 59- 187 63- 174 54- 127 53- 107 55- 091 52- 030 51-			187 12430 63-
AUGHTON 03322	03 856++	017 010 725	003 ++ 07 993 12 06 965 ++ 04 910 07 04 904 ++ 05 888 ++ 08- 853 08 16- 840 ++ 17- 828 06 10- 820 ++ 01- 805 ++ 01 738 01 00 662 05- 07- 660 ++ 07- 644 ++ 16- 627 04- 21- 566 12- 23- 547 13- 24- 502 15- 20- 423 ++ 29- 381 28- 39- 312 40- 48- 250 53- 201 65- 47 57- 124 58- 075 53-			201 11910 65-
	02 6552+	012 005 688	900 10 08 857 ++ 07 827 07 05 800 09 01- 794 ++ 07- 780 ++ 02- 763 ++ 06- 707 ++ 05- 695 ++ 02- 660 ++ 10- 643 ++ 10- 636 ++ 12- 623 ++ 09- 605 07- 10- 546 08- 10- 445 17- 22- 293 40- 46- 250 48- 187 65- 132 55- 097 57- 056 53-			187 12480 65-
HEMSBY 03496	02 00900	018 016 690	999 12 08 980 ++ 08 966 11 04 930 10 5 912 09 02 862 06 02 851 06 03 823 06 06- 784 06 12- 598 ++ 29- 530 14- 27- 499 17- 25- 486 15- 21- 308 40- 46- 250 51- 200 62- 157 55- 079 52- 045 51-			200 11990 62-
	01 21502	016 014 693	940 13 13 911 13 10 850 09 04 830 09 04 774 05 02 747 05 00 729 ++ 03- 681 01- 04- 642 04- 08- 615 05- 12- 561 ++ 12- 549 08- 14- 533 ++ 19- 524 ++ 24- 500 13- 29- 476 ++ 31- 418 ++ 29- 374 28- 33- 358 28- 33- 358 28- 34- 298 40- 47- 250 50- 184 66- 184 66- 176 67- 167 60- 131 57- 113 59- 087 54- 062 55-			176 12830 67-
CRAWLEY 03774	46 772++	019 001 690	988 14 12 945 14 10 888 10 08 867 11 06 860 ++ 03 840 ++ 04 807 ++ 04 776 ++ 02 764 ++ 02- 734 ++ 01- 705 ++ 04- 698 ++ 02- 680 01- 09- 626 06- 08- 618 05- 598 06- 15- 572 ++ 25- 547 ++ 25- 521 ++ 33- 498 ++ 37- 468 ++ 23- 447 ++ 24- 364 ++ 37- 347 31- 41- 312 ++ 49- 250 50- 236 54- 196 63- 177 60- 161 56- 116 56-			196 12200 63-
	50 3647+	018 001 654	949 12 12 865 ++ 08 827 07 04 818 ++ 03 749 01 00 739 04 03- 685 ++ 16- 606 04- 12- 590 ++ 20- 525 08- 31- 393 26 34- 342 33- 39- 295 ++ 48- 250 50- 184 65- 167 57- 100 55-			184 12630 65-
CAMBORNE 03808	45 9+0++	019 009 671	002 15 14 938 ++ 11 913 12 08 898 12 07 782 04 03 764 06 01 750 ++ 01- 726 04 14- 680 ++ 14- 638 ++ 19- 628 ++ 11- 613 04- 17- 600 ++ 30- 593 ++ 26- 560 ++ 30- 542 08- 26- 527 ++ 19- 498 13- 17- 434 ++ 23- 411 22- 28- 365 ++ 33- 330 34- 40- 300 40- 46- 250 51- 219 59- 181 65- 169 58- 153 56- 101 57- 084 53- 052 52- 030 47-			181 12670 65-
	02 863++	017 006 660	988 14 12 881 ++ 09 841 07 03 778 01 01- 765 08 01- 759 ++ 08- 700 04 05- 610 04- 20- 539 07- 29- 519 08- 33- 413 22- 43- 395 23- 38- 366 27- 37- 289 40- 46- 250 49- 186 64- 152 56- 103 58- 046 50-			186 12570 64-
VALENTIA 03953	10 864++	012 010 680	944 14 13 813 07 06 776 07 01 757 06 04- 728 04 01- 600 06- 11- 533 11- 18- 510 12- 22- 454 18- 22- 428 20- 23- 250 50- 190 66- 096 58- 109 56- 095 57- 050 52-			190 11900 66-
	61 862++	007 005 700	953 13 13 735 03 01 614 04- 22- 558 09- 35- 440 22- 40- 434 21- 38- 375 27- 37- 250 54- 249 54- 230 57- 189 59- 163 51- 142 55- 121 55- 111 52- 073 53-			189 12300 59-
Ocean Weather Station 'I' 59°00'N 19°00'W	02 5557+	998 988 776	988 ++ 07 922 05 03 898 04 02 852 ++ 00 843 00 03- 830 03 05- 82- ++ 11- 778 00 02- 760 01- 04- 720 02- 22- 675 05- 15- 667 05- 12- 657 ++ 08- 615 07- 07- 538 12- 14- 589 14- 15- 421 24- 29- 395 27- 36- 372 ++ 38- 354 33- 39- 310 40- 46- 250 52- 242 54- 224 57- 182 49- 057 46-			224 11000 57-
	02 5857+	978 978 737	957 11 09 838 04 03 780 ++ 00 697 02- 19- 652 ++ 23- 642 ++ 13- 624 07- 11- 608 ++ 13- 582 ++ 32- 530 15- 35- 467 23- 40- 450 24- 41- 407 31- 45- 375 35- 50- 341 40- 279 47- 265 48- 250 46- 213 43- 185 44- 167 46- 100 47- 048 48-			279 09400 47-
Ocean Weather Station 'J' 52°30'N 20°00'W	02 873++	995 995 675	970 14 14 920 11 11 869 09 08 825 09 04 789 08 20- 371 28- 50- 328 33- 54- 296 39- 59- 250 47- 223 52- 216 53- 208 53- 180 49- 118 50- 107 51- 092 52- 081 49- 037 48- 022 44-			216 11400 53-
	++ 58400	999 999 705	925 07 06 900 07 07 871 04 04 850 03 02- 807 03 07- 735 00 08- 720 00- 06- 588 07- 14- 414 25- 32- 367 31- 43- 307 40- 52- 250 48- 234 52- 218 51- 200 47- 027 40-			234 10800 52-

STATION	YYGGg	Type	Surface	1000mb	900m	850mb 1500m	750mb 2100m	700mb 3000m	600mb 4200m	500mb 5400m	400mb 7200m	300mb 9000m	250mb 10500m	200mb 12000m	150mb 14100m	100mb 15900m	70mb 18300m	50mb 20700m	30mb 23700m	20mb 26400m	10mb 30900m
LERWICK 03005	242330	T	250 07	+++ ++	270 18	270 17	290 20	280 22	290 31	290 40	290 65	300 90	300 93	300 58	290 36	270 16	280 12				
	250530	P	200 07	+++ ++	220 14	230 13	240 18	270 18	270 22	280 40	290 61	290 68	290 79	290 71							
	251130	T	150 15	+++ ++	150 26	170 28	200 23	170 14	250 30	250 30	250 46	260 54	260 65	270 61	280 34	270 17	250 12				
	251740	P	170 16	+++ ++	200 31	240 32	240 36	240 37	240 40	240 42	240 45	240 44	240 51	240 39	250 35	260 23	250 11				
STORNOWAY 03026	242330	T	240 04	+++ ++	210 14	210 13	210 10	250 17	260 29	270 42	270 53	280 70	280 78	280 68	280 37	270 25	250 07	260 08			
	250535	P	140 17	+++ ++	160 27	190 24	200 24	210 36	230 42	240 39	240 38	240 47	260 59	260 64	260 44	270 27					
	251130	T	170 20	+++ ++	210 44	220 44	230 46	230 44	240 45	220 39	220 49	210 53	210 71	230 68	240 37	240 24	240 18				
	251730	P	210 26	+++ ++	220 38	230 43	240 49	240 49	240 48	240 54	230 56	240 58	230 58	230 49	230 46	240 27					
SHANWELL 03170	242330	T	230 05	+++ ++	250 10	240 09	250 11	270 22	270 29	290 46	280 48	290 64	290 74	300 71	290 42	290 22					
	250500	P	000 00	+++ ++	200 15	220 19	240 26	250 27	260 39	260 40	270 53	280 55	280 65	290 64	280 43	280 28	270 11	320 03	210 11	270 07	
	251130	T	110 04	+++ ++	230 46	240 40	240 43	230 45	240 43	240 49	240 51	230 60	250 67	250 71	250 31	280 27	180 17	240 07	150 16		
	251730	P	230 14	+++ ++	230 36	250 36	250 40	240 45	250 36	250 36	250 42	240 70	240 81	240 68	240 57	250 23	250 14	250 07			
ALDERGROVE 03917	242330	T	140 10	+++ ++	190 16	240 22	240 25	270 30	260 33	270 39	270 45	270 55	290 63	280 57	280 39	270 22	260 11	210 10			
	250530	P	160 17	+++ ++	230 38	230 33	230 33	230 40	230 47	240 41	250 47	260 49	260 55	260 62	260 41	260 29					
	251130	T	190 19	+++ ++	220 43	230 46	240 48	240 40	240 34	250 48	220 67	230 72	230 72	230 75	240 43	250 25	230 15	230 10	240 07		
	251730	P	270 10	+++ ++	230 30	230 38	230 40	240 38	240 33	240 35	240 48	240 75	230 80	240 64	240 40	240 28	200 13				
AUGHTON 03322	242330	T	000 00	+++ ++	250 17	240 16	250 17	250 27	270 27	290 35	290 39	290 49	300 54	300 51	290 37	280 22					
	250530	P	150 09	+++ ++	250 26	250 26	250 28	250 30	260 28	270 33	270 38	280 43	300 42	300 40	280 34						
	251130	T	200 18	+++ ++	230 33	240 40	240 35	230 30	230 40	250 44	240 42	260 41	250 41	250 51	260 36	260 20	240 13				
	251730	P	190 13	+++ ++	230 41	230 42	250 37	260 33	260 34	250 40	240 51	240 57	240 65	230 63	250 43	260 31					
HEMSBY 03496	242330	T	270 03	+++ ++	310 09	270 15	270 15	280 22	290 29	290 32	300 37	310 55	320 59	320 60	300 40	280 22	270 13	350 32			
	250530	P	180 06	+++ ++	230 11	260 21	270 26	280 26	280 23	290 23	300 42	300 41	310 46	300 51	310 36	290 30	290 09	260 05			
	251130	T	230 09	+++ ++	250 21	260 28	260 29	260 23	250 21	270 29	280 35	290 34	290 36	290 40	290 30	280 21	260 12				
	251730	P	220 09	+++ ++	240 27	250 29	250 22	250 26	250 31	250 33	250 46	260 41	260 43	260 51	270 37	270 22	270 12				
CRAWLEY 03774	242330	T	000 00	+++ ++	270 15	270 20	280 22	290 26	290 26	290 36	310 36	310 38	330 42	320 42	290 36						
	250530	P	240 05	+++ ++	260 18	280 23	280 22	280 17	290 21	300 32	300 29	280 33	300 34	300 33	300 34						
	251110	P	230 08	+++ ++	240 19	240 22	230 26	220 25	260 25	260 29	270 27	270 22	280 25	300 22	290 30	280 24	260 13	080 03	000 00	170 09	180 10
	251730	P	250 08	+++ ++	220 26	250 24	260 26	260 29	250 38	250 39	250 38	260 36	260 39	260 42	270 33	270 22					
CAMBORNE 03808	242330	T	200 10	+++ ++	250 21	250 24	240 21	270 15	260 27	290 27	280 26	280 35	290 35	300 42	280 25	290 22	270 16	330 03			
	250530	P	210 08	+++ ++	230 26	230 29	230 25	230 17	250 25	250 23	260 23	270 34	290 28	300 29	280 33	280 27	270 12	320 03			
	251130	T	200 18	+++ ++	220 29	220 33	220 32	250 33	240 37	240 40	230 35	250 36	240 35	250 33	270 38	280 23	270 23	000 00			
	251730	P	180 20	+++ ++	220 29	240 25	240 20	230 25	230 25	240 35	240 48	250 54	240 51	250 54	250 44	250 30					
VALENTIA 03953	242330	T	180 15	190 18	220 32	220 31	220 34	230 43	230 34	240 36	250 39	250 39	260 42	280 45	270 42	260 21	270 13	240 07			
	251130	T	200 07	200 11	220 34	230 37	230 35	240 40	240 49	240 52	230 70	230 74	230 69	230 61	230 67	230 44					
Ocean Weather Station 'I' 59°00'N 19°00'W	250001	T	100 28	+++ ++	120 35	140 34	150 25	170 22	210 23	200 43	200 46	200 50	200 64	220 47	240 32	250 27	230 14				
	250600	P	090 40	+++ ++	090 40	120 31	140 18	200 16	170 24	160 28	150 30	150 38	140 48	200 38	220 30	240 28					
	251200	T	140 13	+++ ++	160 14	160 14	170 16	150 11	130 14	130 16	170 21	200 36	210 32	210 33	210 26	200 24	230 15	230 20			
	251800	P	225 40	+++ ++	240 39	240 23	220 23	220 25	210 24	220 23	200 16	170 26	190 27	200 24	200 28	200 19					
Ocean Weather Station 'J' 52°30'N 20°00'W	250001	T	200 28	+++ ++	230 53	220 56	220 58	210 54	210 51	210 56	210 79	220 87	220 90								
	250600	P	230 50	+++ ++	250 63	250 63	250 62	250 59	220 44	250 60	250 60	250 49	250 56								
	251200	T	250 36	+++ ++	250 43	250 46	250 47	250 51	240 63	230 71	240 78										
	251800	P	220 38	+++ ++	230 44	230 50	230 53	220 54	230 71	230 80	230 82	220 85	220 90	220 96							
LARKHILL 03743	250630	P	230 05	+++ ++	260 21	250 25	240 23	240 14	260 16	270 27	280 34	290 32	300 23	300 26	290 36	290 25					
	251020	P	230 08	+++ ++	240 23	240 26	230 27	230 27	250 23	250 30	260 30	270 28	280 27	290 25	280 32	280 24	260 14	270 06			

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

YYGGg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb m °C °C	700mb m °C °C	650mb m °C °C	600mb m °C °C	550mb m °C °C	500mb m °C °C
251236	58°2'N 26°7'W	983 976 820	061 08 08	140- ++ ++		725 05 05	1490 02 02	1676 01- 01-	03- ++	2734 05- ++	09- ++	3929 12- ++	14- ++	5307 19- ++
Cloud :— 5/8 SC 600 to 1000 feet 8/8 NS 1200 to TNR. Inversion Levels :— Isothermal Levels :—														
YYGGg	POSITION	PRESSURE MSL Surf. 0°C level	SURFACE m °C °C	1000mb m °C °C	950mb m °C °C	900mb m °C °C	850mb m °C °C	800mb m °C °C	750mb m °C °C	700mb m °C °C	650mb m °C °C	600mb m °C °C	550mb m °C °C	500mb m °C °C
251355	60.8°N 20.8°W	977 969 744	06L 09 09	195- 08 08	677 05 05	1137 03 03	1634 02 02	01 01	2704 05- ++	07- ++	3908 10- ++	15- ++	5285 19- ++	
Cloud :— 8/8 NS 500 to 8 000 ft. 2/8 CU HNC to 11000 ft. Inversion Levels :— 2/8 CB HNC to 16000 ft. 2/8CI at 20000 ft. Isothermal Levels :—														
RATES OF SUBSCRIPTION: Single copy 5d. or post free 7d. One calendar month 13/-; one quarter 35/-; one year 125/-. For special arrangements for supply to schools and colleges see Form 2452.										Sir Graham Sutton, C.B.E., D.Sc., F.R.S., Director General Meteorological Office, Air Ministry, Kingsway, London, W.C.2				

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	211mb 300 70 055mb 270 10 13200m 300 40 05280/0 12450/1 12850/1 176mb 270 49	300 97 10180m 290 89 11350 260 74 10900m
STORNOWAY 03026	171mb 280 19 043mb 260 06 16500 270 23 10060/0 12040/1 057mb 220 15 16800m 250 19	280 90 11480 260 72 11520 210 73 10570 230 61 10700
SHANWELL 03170	171mbs 290 52 12320/1 171mbs 260 19 083mbs 270 09 08180/0 09120/0 13800/1	290 84 11420 280 70 10280m 260 73 12180m 240 85 10310m
ALDERGROVE 03917	040mb 230 07 17100m 280 21 12850/1 172mb 230 59 08860/0 13200/1	290 72 10790m 260 65 11580m 230 76 11600m 230 90 10020m
AUGHTON 03322	082mb 270 17 15300m 280 27 00430/2 062mb 250 11 17700m 240 14 12570/1	240 68 10830m
HEMSBY 03496	12610/1	320 65 11820m
CRAWLEY 03774	125mb 300 32 28800m 180 09	
CAMBORNE 03808	034mb 280/04 22800m 080 01 18000m 24017 13070/1	
VALENTIA 03953		
Ocean Weather Station 'I' 59°00'N 19°00'W	642mb 190 22 058mb 230 10 17400m 230 14 0202/1 03310/0 451mb 15018 18300m 20010 18600m 200 05	200 78 10830m
Ocean Weather Station 'J' 52°30'N 20°00'W	450mb 210 58 439mb 250 68 233mb 250 59 330mb 24085 161mb 22087	
LARKHILL 03743	17370m 300 14	

NOTES ON THE AEROLOGICAL SITUATION

The strong westerly flow continues from eastern Canada to central Europe with the trough over the United States moving eastward deepening. The centre which was over the Davis Strait yesterday has moved southeast and is now moving east while the trough towards the British Isles has now largely fallen. The centre over Scandinavia has moved a little northeast.

AVERAGE AND EXTREME VALUES 1951-55

AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper Lower	mb.	°C	mb.	mb.	°C	°C
	102	-68.1	...	72	...	-75
	(195)	(-59.1)	...	...	...	...

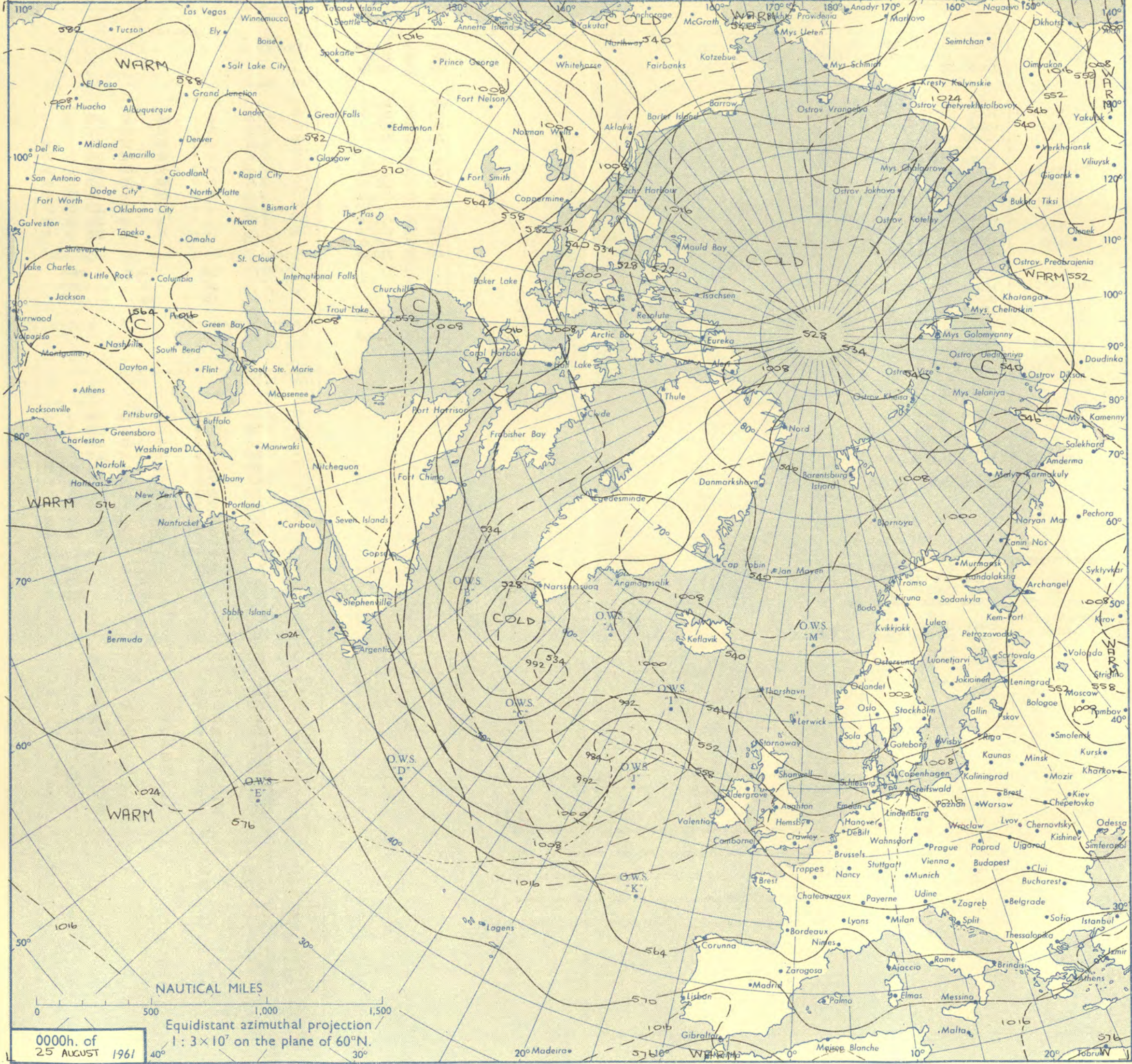
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

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

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

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

Thickness isopleths in geopotential decametres



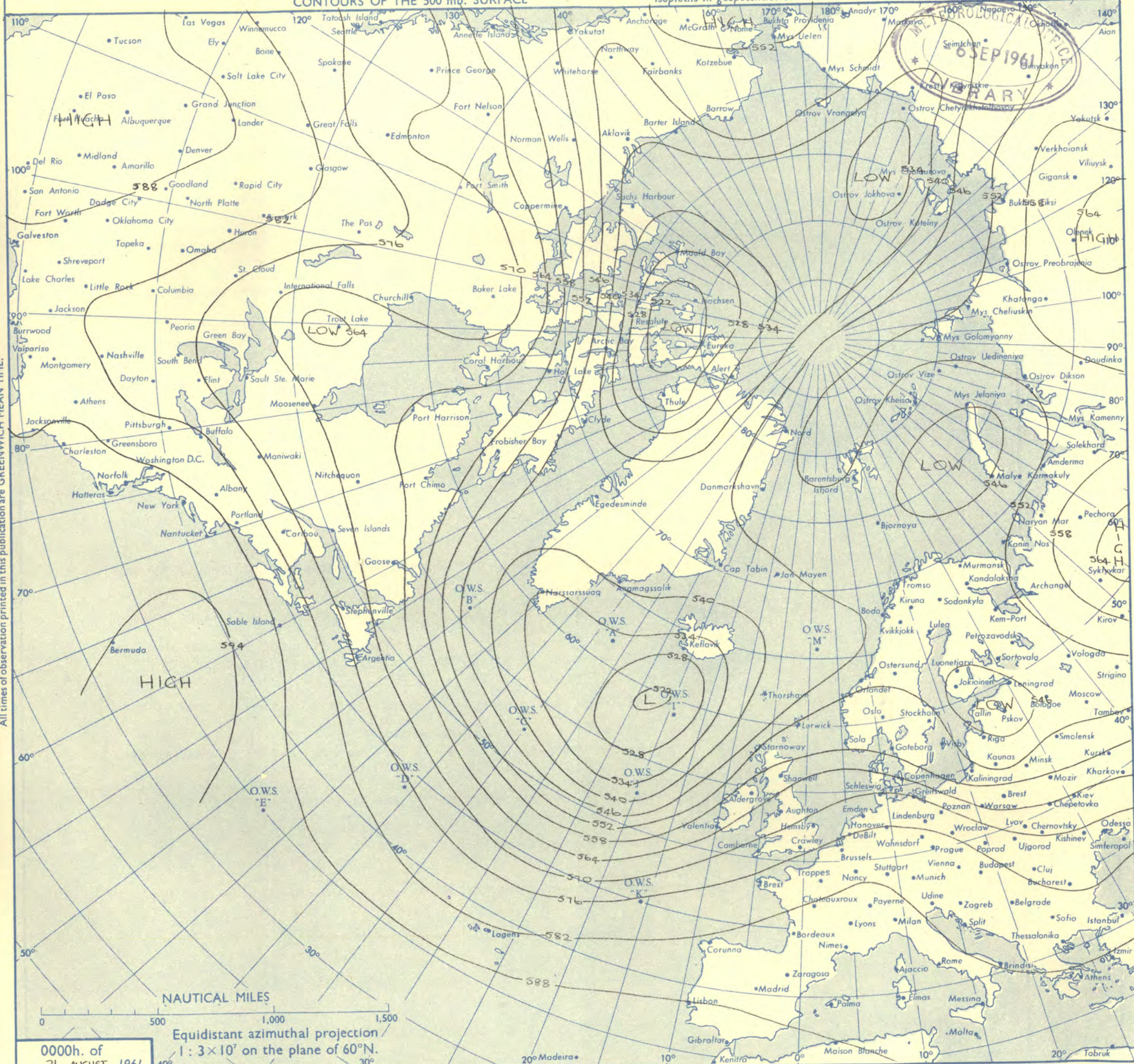
NAUTICAL MILES

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

0000h. of
25 AUGUST 1961

CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

26 August 1961

STATION	YYGGgg	SURFACE		1000mb		850mb		700mb		500mb		400mb		300mb		200mb		150mb		100mb		70mb		50mb		30mb								
		gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C						
LERWICK 03005	262335	082	12	11	001	+++	++	1346	04	00	2923	01	14	5548	17	30	7178	29	45	9173	45	++	11802	51	13674	48	16339	48	18696	48	20914	48		
	261130	082	14	13	014	++	++	1357	04	03	2932	01	10	5539	17	28	7173	30	46	9157	46	++	11770	51	13654	46	16342	47	18701	48	20914	47	24274	48
STORNOWAY 03026	252330	013	13	10	000	++	++	1345	05	00	2924	00	06	5548	16	23	7188	28	36	9187	43	++	11816	55	13687	48	16370	49	18723	48				
	261130	013	15	12	017	++	++	1327	04	01	2873	05	15	5438	21	40	7048	31	44	9019	47	++	11697	45	13628	43	16333	47						
SHANWELL 03170	252330	005	13	12	041	14	11	1398	08	06	2988	03	26	5622	16	49	7262	29	++	9262	43	++	11878	60	13718	51	16348	56	18661	53				
	261130	005	17	09	035	16	08	1379	02	00	2944	01	22	5541	19	36	7148	35	45	9078	53	++	11589	64	13393	55	15972	58	18225	58	20352	56		
ALDERGROVE 03917	252330	077	13	10	049	++	++	1403	10	04	2995	01	10	5623	14	31	7272	28	42	9282	41	++	11923	55	13773	53	16382	53	18706	51	20898	50	24260	47
	261130	077	15	14	040	++	++	1390	05	03	2953	01	02	5553	17	28	7184	31	43	9159	45	++	11803	50	13691	48	16351	49	18697	50	20923	46		
AUGHTON 03322	252330	056	15	15	078	15	14	1449	10	08	3041	01	01	5677	14	26	7332	26	31	9347	43	++	11981	57	13812	56	16397	54	18690	51				
	261130	056	15	12	090	14	10	1436	05	03	3022	02	29	5656	14	36	7306	28	50	9305	44	++	11931	56	13766	54	16377	53	18686	51	20879	49		
HEMSBY 03496	252330	012	15	14	121	15	13	1490	09	03	3076	02	05	5713	12	16	7380	23	26	9416	39	44	12056	61	13852	57	16417	56						
	261130	012	23	15	110	20	13	1486	12	10	3082	02	03	5721	13	36	7382	26	47	9393	43	++	12008	59	13827	57	16359	56	18682	53	20865	51	24202	53
CRAWLEY 03774	252340	144	15	14	140	++	++	1505	09	07	3105	03	09	5751	11	21	7425	22	28	9473	38	44	12123	60	13913	58	16461	58	18734	55	20903	52		
	261130	144	16	15	134	++	++	1503	11	09	3102	02	02	5752	12	38	7418	25	48	9448	39	++	12099	59	13899	57	16457	57	18730	53				
CAMBORNE 03808	252330	088	16	15	117	16	14	1484	11	09	3080	02	01	5728	13	14	7398	23	32	9444	38	43	12111	57	13924	55	16496	57	18773	53	20930	55		
	261130	088	18	13	130	17	11	1491	10	05	3090	03	16	5745	12	34	7405	27	45	9429	40	++	12089	59	13895	56	16487	54	18784	51	20983	49		
VALENTIA 03953	252330	014	14	12	068	14	12	1422	07	04	3001	01	12	5650	15	29	7300	27	39	9320	41	++	11960	58	13810	51	16420	53						
	261130	014	16	10	087	15	09	1432	03	05	2988	02	18	5600	18	28	7220	31	41	9210	45	++	11840	54	13680	52	16310	52						
Ocean Weather Station 'I' 59°00'N 19°00'W	260001	11	10	017	++	++	1163	01	00	2694	07	23	5240	23	41	6830	36	50	8770	46	++	11510	44	13460	43	16170	44	18560	45					
	261200	13	07	185	++	++	1150	01	04	2679	09	16	5180	29	37	6750	39	49	8680	45	++	11430	42	13370	43									
Ocean Weather Station 'J' 52°30'N 20°00'W	260001	12	05	010	++	++	1320	00	08	2856	09	21	5380	24	37	6970	33	48	8940	42	++	11690	41	13630	43	16340	45	18720	46	20950	47	24330	45	
	261200	13	07	033	12	07	1370	02	04	2917	05	16	5490	19	32	7110	31	44	9090	44	++	11780	44	13700	45	16420	44	18810	43	21080	42	24560	38	

STATION	ww N _n C _L hC _M C _H	PRESSURE			TROPopause mb m °C
		MSL	Surf.	0°C level	
LERWICK 03005	02 656++	000	990	678	965 ++ 07 930 10 06 845 04 01- 827 05 03- 790 ++ 14- 778 05 14- 700 01 14- 650 01- 19- 520 14- 28- 444 224 11090 57- 25- 35- 410 ++ 43- 392 30- 46- 354 35- 50- 280 49- 250 53- 224 57- 205 51- 174 52- 142 47- 124 50- 100 48- 124 14940 50-
	02 784++	002	992	708	977 11 09 953 ++ 05 844 03 02 816 ++ 15- 803 07 14- 771 ++ 15- 695 01- 09- 623 ++ 15- 592 ++ 27- 527 ++ 235 10740 57- 24- 445 23- 40- 364 35- 50- 280 50- 250 54- 235 57- 217 57- 201 51- 174 51- 151 46- 100 47- 030 48-
STORNOWAY 03026	01 28500	000	999	700	992 14 10 970 ++ 07 867 05 03 822 ++ 08- 813 07 07- 750 ++ 08- 719 01 05- 566 08- 17- 477 19- 26- 422 ++ 214 11390 57- 34- 319 40- 47- 250 52- 233 55- 214 57- 144 46- 099 49- 074 46- 055 49-
	81 794++	998	997	802	984 ++ 10 930 09 07 903 07 02 826 ++ 02- 776 02- 98- 764 ++ 13- 756 02- 12- 720 04- 10- 680 ++ 22- 635 287 09300 49- ++ 30- 514 19- 38- 454 27- 36- 444 27- 37- 413 30- 42- 361 37- 49- 287 49- 265 50- 250 49- 147 42- 127 46- 127 14750 46- 090 45-
SHANWELL 03170	01 35530	005	004	660	995 ++ 09 925 ++ 05 898 09 06 870 ++ 08 845 08 06 814 06 04 800 ++ 14- 778 07 18- 595 05- ++ 465 20- 200 11878 60- 50- 307 42- 250 53- 219 59- 200 60- 138 48- 102 57- 085 48- 070 53- 102 16200 57-
	02 58400	004	004	709	866 03 02 838 02 02- 825 ++ 04- 819 04 13- 802 ++ 17- 766 ++ 13- 746 02 18- 650 ++ 27- 603 09- 21- 580 223 10910 67- ++ 28- 539 14- 32- 455 ++ 44- 371 40- 49- 279 57- 250 62- 223 67- 149 55- 100 58- 092 58- 088 55- 079 58- 079 17460 58- 040 57- 034 55-
ALDERGROVE 03917	01 15600	006	997	682	940 ++ 09 907 09 06 871 06 03 858 10 00 843 ++ 06- 824 10 04- 710 ++ 08- 637 03- 19- 580 ++ 27- 478 17- 217 11400 56- 34- 388 30- 43- 310 39- ++ 250 51- 228 55- 217 56- 183 53- 103 53- 086 49- 076 52- 030 47-
	60 854++	005	996	730	975 13 11 892 ++ 06 765 01 00 684 01- 02- 640 ++ 10- 610 ++ 13- 563 13- 22- 536 13- 24- 377 ++ 46- 345 39-239 10640 54- 50- 315 44- 303 45- 250 53- 239 54- 225 54- 213 50- 097 49- 085 47- 071 50- 047 44- 037 48-
AUGHTON 03322	21 5567+	009	003	677	983 ++ 13 870 11 09 738 ++ 01 689 ++ 01- 570 98- 11- 530 11- 16- 514 12- 22- 498 14- 26- 466 19- 28- 445 208 11710 58- 19- 27- 412 24- 30- 313 40- 46- 250 51- 138 55- 108 56- 093 53- 080 55- 070 51-
	01 7553+	011	004	671	992 14 10 930 ++ 08 838 04 03 827 10 07- 809 09 13- 630 03- 34- 500 14- 36- 398 28- 50- 317 41- 250 52- 212 11600 58- 212 58- 190 57- 092 51- 079 54- 073 51- 065 53- 040 46-
HEMSBY 03496	02 00901	015	013	676	955 15 09 910 13 05 782 04 01 773 05 00 762 ++ 03- 748 ++ 00 717 ++ 01 701 02 05- 670 ++ 05- 652 ++ 11- 189 189 12400 64- 630 ++ 11- 607 ++ 15- 577 08- 15- 566 07- 15- 523 12- 16- 500 12- 16- 427 20- 23- 297 40- 45- 250 50- 189 64- 166 58- 087 55-
	03 25630	013	011	674	997 20 13 909 12 10 850 12 10 800 ++ 05 783 06 04 750 05 00 720 ++ 08- 705 ++ 02- 659 ++ 06- 639 ++ 05- 210 11700 59- 596 06- 12- 590 ++ 12- 581 05- 20- 557 08- 30- 493 13- 37- 365 32- 50- 250 53- 210 59- 178 56- 105 57- 085 53- 035 48- 030 53-
CRAWLEY 03774	02 756++	016	999	671	950 14 10 906 12 10 809 06 03 797 11 02- 763 09 06- 607 06- 16- 597 ++ 22- 570 ++ 34- 537 08- 41- 498 ++ 178 12860 64- 21- 492 ++ 24- 440 18- 26- 440 ++ 25- 397 22- 28- 342 31- 35- 316 ++ 41- 291 49- 46- 250 49- 215 57- 193 63- 178 64- 163 58- 103 59- 089 55- 047 53-
	50 762++	016	999	670	939 12 11 924 13 12 865 ++ 10 849 ++ 09 806 806 09 03- 773 ++ 02- 761 ++ 02 653 ++ 04- 647 02- 09- 634 183 12660 62- 01- 16- 630 ++ 21- 605 ++ 31- 470 16- 40- 458 16- 40- 377 28- 50- 360 31- ++ 338 33- ++ 250 50- 183 62- 155 57- 086 57- 077 53- 053 52-
CAMBORNE 03808	02 855++	014	003	666	977 14 12 938 14 13 857 10 08 850 11 09 838 ++ 04 795 ++ 01 774 ++ 05 752 ++ 03 742 ++ 03 718 03 02 190 12420 58- 675 ++ 03- 656 ++ 02- 589 05- 06- 499 14- 15- 487 ++ 19- 472 ++ 21- 456 16- 21- 432 ++ 26- 401 ++ 32- 358 ++ 33- 289 40- 45- 250 49- 190 58- 154 55- 109 58- 072 53- 048 55-
	02 48530	015	005	633	994 16 11 916 10 08 871 12 02 859 11 06 813 08 04 770 ++ 04 739 ++ 03- 728 ++ 12- 664 ++ 24- 626 00 27- 181 12690 61- 507 11- 33- 404 26- 45- 353 32- 50- 250 48- 194 60- 181 61- 171 58- 118 54- 090 54- 044 46- 039 48-
VALENTIA 03953	01 15600	086	006	660	985 15 13 856 05 03 837 10 04 813 08 05- 696 01 12- 672 01 13- 588 05- 21- 408 26- 38- 380 29- 41- 250 50- 207 11800 59- 207 39- 105 56-
	02 225++	011	009	770	984 13 07 875 05 02- 770 00 10- 759 01 11- 672 03 19- 612 05- 17- 553 12 - 23- 489 19- 29- 444 29- 39- 304 221 11200 56- 44- 262 51- 250 52- 221 56- 212 54- 176 55- 142 52- 105 53- : 077 51-
Ocean Weather Station 'I' 59°00'N 19°00'W	01 32430	980	980	841	935 ++ 03 870 02 01 800 03- 04- 750 05- 07- 710 ++ 23- 692 07- 23- 618 ++ 30- 590 16- 28- 582 17- 30- 566 326 08200 46- 17- 34- 551 17- 34- 399 36- 50- 326 46- 299 46- 256 41- 250 41- 171 41- 161 43- 109 45- 100 44- 076 46- 057 45-
	02 19535	978	978	837	960 10 04 921 07 02 850 ++ 04- 789 03- 21- 691 10- 17- 561 23- 30- 517 28- 35- 474 ++ 40- 447 33- 43- 392 324 08200 46- 40- 49- 376 42- 324 46- 311 46- 272 41- 250 41- 225 40- 180 43- 163 42- 127 45-
Ocean Weather Station 'J' 52°30'N 20°00'W	25 42400	999	999	850	970 10 02 900 04 01- 850 00 08 - 750 06- 17- 600 17- 26- 550 20- 33- 500 24- 37- 465 27- 41- 437 31- 45- 290 09200 43- 400 33- 48- 338 40- 53- 290 43- 250 40- 244 41- 215 41- 115 46- 098 45- 050 48- 028 46- 023 44-
	02 62400	003	003	805	893 04 00 765 02- 12- 726 03- 14- 573 13- 24- 545 14- 25- 332 40- 51- 285 46- 259 49- 250 47- 234 46- 191 259 10100 49- 44- 177 45- 075 44- 045 42- 023 37-

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	053mb 250 06 03980/0 06740/0 11090/1 12450/1	200 69 10740m 200 99 09230m
STORNOWAY 03026	22800m 180 11 14780/1	210 107 08700m
SHANWELL 03170	077mb 240 17 17200m 240 14 12220/1 20200m 240 56 15300m 230 48	240 66 11650m 230 69 10980m 220 80 08650m 210 101 07240m
ALDERGROVE 03917	087mb 240 25 22600m 210 20 11980/1 16500/1 17330/7 187mb 240 72 162mb 240 53 13400m 240 57	230 63 10890m 220 82 10720m 230 123 10020m 240 111 09620m
AUGHTON 03322	075mb 240 16 13200m 230 45 11110/1 082mb 240 26 05210/0 09550/0 12360/1 12930/1	240 71 11140m 240 61 10910m 250 86 10380m 250 108 10670m
HEMSBY 03496	18000m 250 16 032mb 140 10 09420/0 12140/1	250 63 12180m 250 66 07880m 260 68 11820m 260 103 11870m
CRAWLEY 03774	13590/1 175mb 260 73 062mb 240 12 14700m 250 55 13130/1	260 69 11900m 270 102 12220m 260 93 12100m
CAMBORNE 03808	051mb 300 19 14840m 240 51 09240/0 13520/1 16500/1 132mb 250 27 086mb 250 27 18560m 250 08 13280/1	240 75 10850m 260 93 11480m 250 110 12070m 240 100 12100m
VALENTIA 03953		230 66 07430m 230 124 10670m
Ocean Weather Station 'I' 59°00'N 19°00'W	060mb 190 12 05100m 180 28 14700m 190 19 05300 /1 462mb 040 09 P23100m 210 08 15000m 240 20 08600/1	
Ocean Weather Station 'J' 52°30'N 20°00'W	362mb 230 71 272mb 220 110 244mb 230 92 215mb 230 91 160mb 250 54 378mb 260 56 280mb 260 107 354mb 250 79 294mb 250 115 235mb 250 85	220 110 09600m
LARKHILL 03743		250 94 12200m 270 108 12280m

NOTES ON THE AEROLOGICAL SITUATION

The ridge and downstream trough system over America continues to move eastward. The Atlantic low is moving northeast with the strong westerly flow persisting on it's northern flank.
The low over Scandinavia is filling.

AVERAGE AND EXTREME VALUES 1951-55

AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

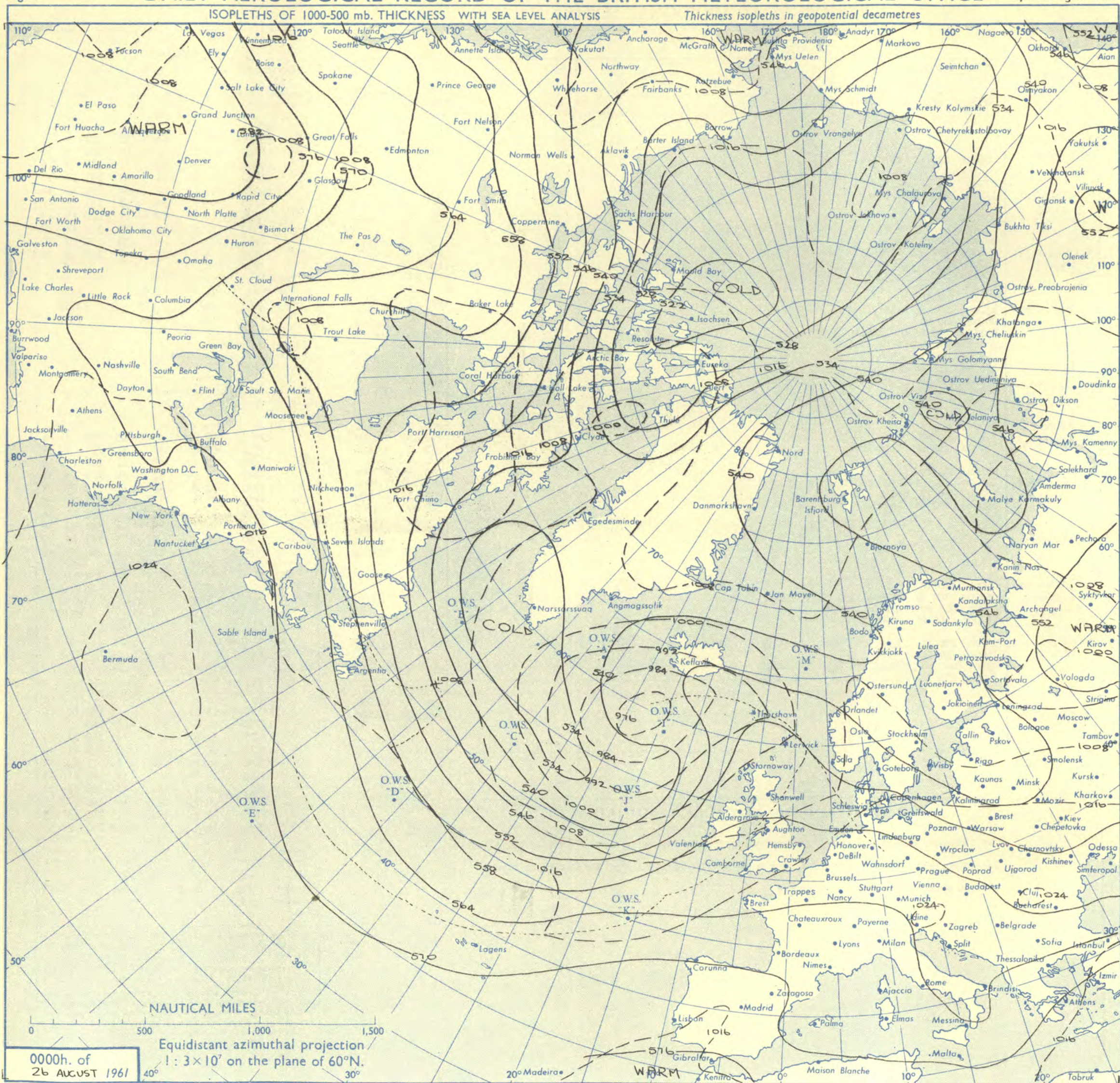
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
	mb.	°C	mb.	mb.	°C	°C
Upper	102	-68.1	...	72	...	-75
Lower	(195)	(-59.1)	...	...	...	...

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

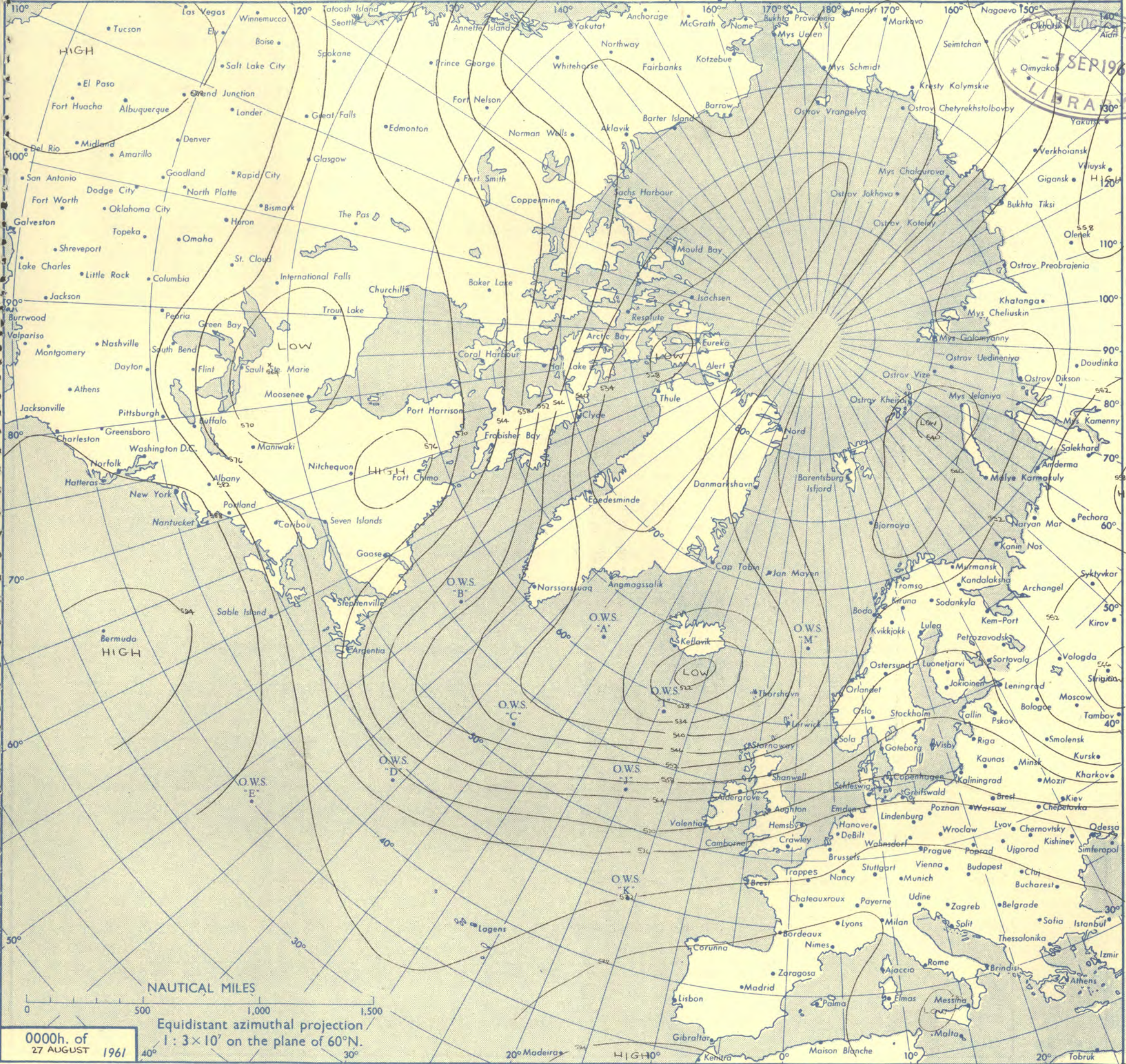
† Observations were made at Larkhill (Lat. 51° 12' N., Long. 01° 48' W.) up to 28th April, 1953.

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



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres



NAUTICAL MILES

Equidistant azimuthal projection
 $1:3 \times 10^7$ on the plane of 60°N.0000h. of
27 AUGUST 1961

HEIGHTS AND TEMPERATURES OF STANDARD ISOBARIC SURFACES

27 August 1961

STATION	YYGGgg	SURFACE	1000mb		850mb		700mb		500mb		400mb		300mb		200mb		150mb		100mb		70mb		50mb		30mb	
		gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C
LERWICK 03005	262330	082 12 07 006 ++ ++	1351 04 02-	2899 06- 15-	5446 22- 31-	7042 36- 43-	8972 50- ++	11677 43-13609	44- 16318	46- 18689	47- 20913	48-														
	271130	082 14 10 036 ++ ++	1372 02 01-	2912 07- 12-	5458 22- 30-	7065 33- 38-	9031 47- ++	11673 48- 13575	48- 16265	47- 18618	47- 20830	50-														
STORNOWAY 03026	262330	No Ascent made.																								
	271130	013 14 11 053 13 10	1389 02 00	2932 06- 19-	5496 19- 39-	7119 31- 43-	9094 47- ++	11726 48- 13625	48- 16321	48- 18679	44-															
SHANWELL 03170	262330	004 12 09 066 12 08	1410 03 00	2960 05- 19-	5540 20- 36-	7154 32- 49-	9121 47- ++	11769 48- 13676	46- 16353	49- 18697	48- 20910	48-														
	271145	005 15 12 087 14 11	1439 08 04	3022 00 07-	5626 16- 22-	7264 29- 35-	9259 45- ++	11861 59- 13702	53- 16348	51- 18685	50- 20898	48-														
ALDERGROVE 03917	262330	077 12 09 104 12 09	1440 02 02-	2997 01- 21-	5599 18- 31-	7225 31- 39-	9205 47- ++	11804 53- 13683	48- 16330	53- 18647	50- 20847	50- 21202	48-													
	271130	077 15 12 139 14 12	1488 08 05	3056 02- 03-	5671 15- 20-	7324 26- 31-	9343 42- ++	11961 64- 13791	52- 16417	54- 18747	49- 20947	49- 21334	45-													
AUGHTON 03322	262330	056 12 10 138 13 11	1487 04 01	3051 01 23-	5681 16- 40-	8325 27- 48-	9324 44- ++	11937 55- 13779	55- 16387	50-																
	271130	056 18 12 176 16 10	1536 09 03	3121 01- 06-	5738 16- 19-	7383 27- 32-	9397 43- ++	11993 64- 13791	58- 16351	56- 18637	55- 20797	52- 24105	52-													
HEMSBY 03496	262330	012 16 13 146 16 12	1511 08 04	3102 03 15-	5730 16- 28-	7377 27- 39-	9383 43- ++	12010 59- 13836	56- 16438	53-																
	271130	012 20 09 195 17 08	1552 08 06-	3146 02 10-	5769 15- 30-	7414 28- 40-	9407 46- ++	12001 56-																		
CRAWLEY 03774	262330	144 15 15 171 15 14	1533 11 14-	3134 05 23	5785 13- 39-	7440 27- 50-	9458 41- ++	12097 59- 13908	57-																	
	271135	144 21 10 216 19 03	1579 10 06	3181 04 00	5836 12- 18-	7496 25- 31-	9510 42 ++	12134 60- 13498	57- 16507	57-																
CAMBORNE 03808	262345	088 14 13 177 15 12	1537 08 02	3130 04 11-	5767 14- 30-	7421 26- 40-	9438 41- ++	12074 59- 13883	57- 16450	56- 18727	54- 20902	52-														
	271130	088 20 13 200 17 11	1573 10 04	3168 03 18-	5811 12- 30-	7481 24- 41-	9507 40- ++	12153 59- 13962	58- 16517	59- 18761	58- 20893	57-														
VALENTIA 03953	262330	014 14 12 143 14 12	1493 04 01	3065 01 11-	5690 15- 27-	7340 27- 38-	9340 44- ++	11940 59- 13770	55- 16380	52- 18700	52- 20890	51-														
	271130	014 18 14 172 16 12	1524 07 00	3112 01 07-	5740 15- 28-	7390 26- 36-	9400 43- ++	12010 58- 13820	57- 16390	57-																
Ocean Weather Station 'I' 59°00'N 19°00'W	270001	10 09 131- ++ ++	1201 01 00	2740 07- 08-	5280 26- 33-	6860 37- 47-	8800 48- ++	11520 43- 13450	44- 16150	46-																
	271200	13 10 027- ++ ++	1305 01 01-	2842 05- 23-	5410 21- 29-	7020 32- 44-	8990 48- ++	11630 49- 13530	48- 16210	47- 18570	47- 20800	48-														
Ocean Weather Station 'J' 52°30'N 20°00'W	270001	15 13 050 15 13	1410 08 08	2995 00 00	56200 15- 20-	7270 26- 34-	9290 41- ++	11920 55- 13780	50- 16440	48- 18800	47- 21020	47-														
	271200	15 14 069 15 14	1430 09 04	3028 00 02-	5670 12- 17-	7340 22- 28-	9390 37- 44-	12060 55- 13910	51- 16560	48- 18930	44- 21200	42- 21670	39-													

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE	
		MSL	Surf.	0°C level		mb	m
LERWICK 03005	02 15530	001 991 783	980 12 07 955 ++ 03 920 ++ 00 81.8 ++ 02- 780 ++ 08- 612 13- 23- 512 21- 30- 375 40- 46- 33- 48- 289 51- 250 45- 224 42- 100 46- 050 48-	988 12 08 931 07 04 772 03- 05- 694 07- 12- 676 ++ 15- 618 ++ 19- 604 ++ 22- 596 ++ 22- 588 ++ 25- 494 ++ 30- 466 ++ 35- 440 28- 35- 400 ++ 38- 358 39- 44- 256 53- 250 53- 236 54- 216 49- 132 46- 100 47- 038 51-	289 09220 51- 256 10050 53-		
	02 38432	004 995 819					
STORNOWAY 03026	02 625+1	006 005 801	988 ++ 08 920 06 04 892 ++ 01 852 02 00 836 02 01- 753 ++ 12- 720 ++ 14- 698 ++ 19- 648 ++ 24- 633 ++ 29- 601 13- 29- 514 17- 38- 450 24- 44- 417 ++ 40- 338 40- 46- 261 54- 250 55- 243 55- 188 46- 139 49- 114 42- 098 48- 087 49- 079 43- 069 44- 066 47- 057 45-		261 10000 54- 098 16450 48-		
SHANWELL 03170	02 00900	008 007 766	986 12 07 940 10 06 910 ++ 02 845 ++ 00 822 01 03- 817 ++ 03- 760 01- 16- 594 11- 25- 532 16- 31- 385 34- 50- 284 50- 250 53- 244 54- 209 47- 135 46- 114 50- 100 49- 086 51- 078 46- 066 50- 043 47-		244 10460 54- 066 19090 50-		
	02 754++	010 010 698	999 14 11 936 09 07 890 ++ 06 845 ++ 04 840 ++ 02 805 06 05- 798 06 01- 778 06 01- 663 03- 09- 620 08- 12- 590 ++ 14- 533 15- 18- 517 15- 20- 325 40- 45- 271 50- 250 54- 210 62- 181 54- 123 49- 100 51- 085 51- 081 46- 067 51- 057 47- 047 48-		210 11540 62- 067 18950 51-		
ALDERGROVE 03917	01 15702	012 003 722	886 ++ 02 826 01 05- 783 ++ 13- 725 00 17- 693 ++ 22- 587 ++ 17- 565 ++ 18- 539 ++ 27- 518 16- 29- 485 ++ 34- 433 ++ 34- 335 ++ 46- 278 51- 250 56- 234 60- 212 54- 140 48- 092 54- 076 48- 064 52- 058 49- 030 48-		234 10810 60-		
	02 6547+	016 007 746	986 12 10 914 09 08 904 10 08 863 09 06 800 04 01 751 00 02- 685 ++ 04- 668 03- 05- 622 ++ 12- 555 12- 15- 543 11- 15- 510 ++ 20- 438 ++ 25- 348 33- 37- 311 ++ 40- 304 42- 250 52- 246 52- 198 64- 187 57- 143 51- 123 51- 106 55- 081 47- 059 51- 030 45-		198 12020 64- 106 16040 55-		
AUGHTON 03322	02 00900	017 010 663	005 13 11 979 13 09 934 ++ 04 879 ++ 01 859 05 02 826 02 00 807 01 05- 790 00 06- 764 02 11- 755 ++ 16- 679 01 25- 477 19- 41- 419 25- 46- 323 40- ++ 250 54- 217 58- 198 54- 130 56- 107 50- 076 51-		217 11430 58-		
	02 11508	021 014 714	986 14 09 943 11 07 920 ++ 02 893 11 05 864 10 05 762 04 03- 683 ++ 07- 658 04- 10- 658 04- 10- 610 07- 11- 593 ++ 13- 589 08- 18- 572 ++ 20- 559 10- 15- 500 16- 19- 385 28- 33- 312 40- 46- 250 54- 238 57- 204 65- 192 63- 181 58- 133 59- 094 56- 078 52- 063 57- 056 52- 030 52-		204 11850 65- 063 19310 57-		
HEMSBY 03496	01 00900	018 016 666	005 16 13 959 14 08 928 14 06 881 ++ 06 837 07 03 799 07 02- 775 05 01- 750 05 11- 721 ++ 17- 711 04 16- 620 04- 17- 412 25- 38- 324 39- 50- 250 52- 213 58- 190 58- 182 55- 156 56- 122 53- 085 55- 077 51-		213 11600 58-		
	02 11501	023 021 680	017 17 07 943 12 05 877 08 02- 838 08 12- 830 08 06- 812 09 06- 777 08 07- 670 01- 13- 483 17- 31- 333 39- 50- 250 56- 224 59- 205 56- 158 56-		224 11280 59-		
CRAWLEY 03774	02 762++	020 003 642	998 ++ 13 978 ++ 12 940 ++ 07 933 ++ 02 912 11 09 893 12 06- 820 ++ 18- 788 ++ 05- 750 ++ 23- 720 07 29- 405 26- 49- 250 51- 206 59- 103 56-		206 11900 59-		
	02 11400	025 008 644	999 ++ 03 990 17 02 869 07 03 850 10 06 810 ++ 03 790 ++ 05 744 07 03 549 09- 14- 498 12- 18- 465 17- 23- 314 ++ 46- 250 52- 198 60- 151 57- 096 57-		198 12200 60-		
CAMBORNE 03808	03 00906	021 011 652	000 15 12 983 ++ 12 971 13 06 947 13 04 893 ++ 07 860 ++ 05 856 07 04 832 09 09- 806 09 15- 775 ++ 19- 742 ++ 11- 680 03 12- 508 14- 30- 325 37- 49- 250 51- 191 60- 102 56- 034 49-		191 12360 60-		
	02 31500	026 014 663	994 16 11 907 10 08 885 11 02 866 ++ 05 828 08 01 767 08 11- 733 07 14- 653 ++ 18- 617 04- 17- 519 10- 28- 332 35- 50- 250 50- 210 58- 194 59- 121 57- 097 60- 050 57- 040 53-		194 12330 59-		
VALENTIA 03953	01 12501	017 015 690	003 15 13 850 04 01 815 03 03- 784 05 06- 742 04 13- 492 16- 28- 373 30- 39- 265 52- 250 54- 220 60- 196 59- 189 56- 102 53- 083 50- 065 52- 047 51-		220 11300 60-		
	01 754++	020 019 680	019 18 14 979 14 09 870 06 01 809 07 00 424 23- 34- 250 53- 208 63- 199 58- 128 56- 089 57-		208 11700 63-		
Ocean Weather Station 'I' 59°00'N 19°00'W	63 5732+	984 984 830	958 ++ 07 850 01 00 698 07- 08- 600 15- 17- 569 17- 21- 538 ++ 28- 490 27- 35- 440 31- 41- 379 40- 50- 356 43- 319 48- 291 48- 256 43- 250 43- 172 45- 158 43- 129 46- 090 46-		319 08400 48-		
	02 1356+	997 997 838	997 13 10 975 10 07 927 06 03 810 02- 04- 790 02- 05- 750 05- 09- 705 05- 20- 696 ++ 26- 631 09- 24- 573 ++ 30- 551 ++ 27- 497 ++ 30- 440 28- 38- 406 30- 42- 342 40- 49- 250 52- 297 48- 272 52- 233 52- 213 49- 143 47- 100 47- 080 46- 073 48- 067 46- 044 48-		272 09600 52-		
Ocean Weather Station 'J' 52°30'N 20°00'W	02 873++	005 005 700	981 15 15 962 14 14 882 09 09 652 03- 03- 584 08- 09- 380 28- 37- 307 40- 48- 250 51- 240 53- 220 56- 139 50- 041 47-		220 11300 56-		
	01 864++	007 007 700	990 15 15 965 15 15 926 13 13 827 09 03 790 06 05 670 01- 04- 554 06- 13- 432 19- 24- 400 22- 28- 285 40- 47- 250 46- 207 56- 187 55- 142 50- 094 48- 022 38- 012 34-		207 11900 56-		

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	053mb 230 09 19200m 210 10 130mb 250 35 16500m 270 32 05550/0 11800/1	260 74 09400m 260 106 09730m
STORNOWAY 03026	19350m 210 17 224mb 260 81 110mb 240 30 01440/0 11500/1	260 76 09400m 260 108 10100m 260 100 10800
SHANWELL 03170	02980/0 11560/1 13430/1 14500/m 260/94 02020/0 11840/1 12250/1	260 104 10090m 250 103 10410m 260 91 11100m 260 94 11450m
ALDERGROVE 03917	137mb 273 48 126mb 273 33 14600m 260 49 06740/0 12670/1 083mb 250 46 14800m 260 45 13350/1	260 102 09990m 260 97 10820m 260 81 12720m 270 90 10600m
AUGHTON 03322	084mb 240 22 16800m 260 32 11560/0 12710/1 043mb 220 16 19800m 250 16 16670/1	250 90 10880m 260 80 11890m
HEMSBY 03496	132mb 250 57 17420m 250 29 12360/1 15160/1 171mb 270 54	250 103 12130m 250 82 11610m
CRAWLEY 03774	104mb 250 36 09600m 260 65 09380/0 09850/0 12710/1 21700m 260 10	260 96 11380m 250 94 12480m 260 63 12760m
CAMBORNE 03808	081mb 250 31 15990m 250 57 19500m 260 13	250 97 11470m 240 79 12730m
VALENTIA 03953		270 84 10370m 260 68 10650m
Ocean Weather Station 'I' 59°00'N 19°00'W	21600m 200 18 06000/0 09260/1 09900m 260 85 04510/0 06110/0 09800/1	260 69 08800m 250 112 09220m
Ocean Weather Station 'J' 52°30'N 20°00'W	785mb 250 65 147mb 240 60 635mb 230 59 285mb 230 72 227mb 230 93 187mb 230 77 213mb 220 83 095mb 210 45	250 88 10500m 230 93 11250m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

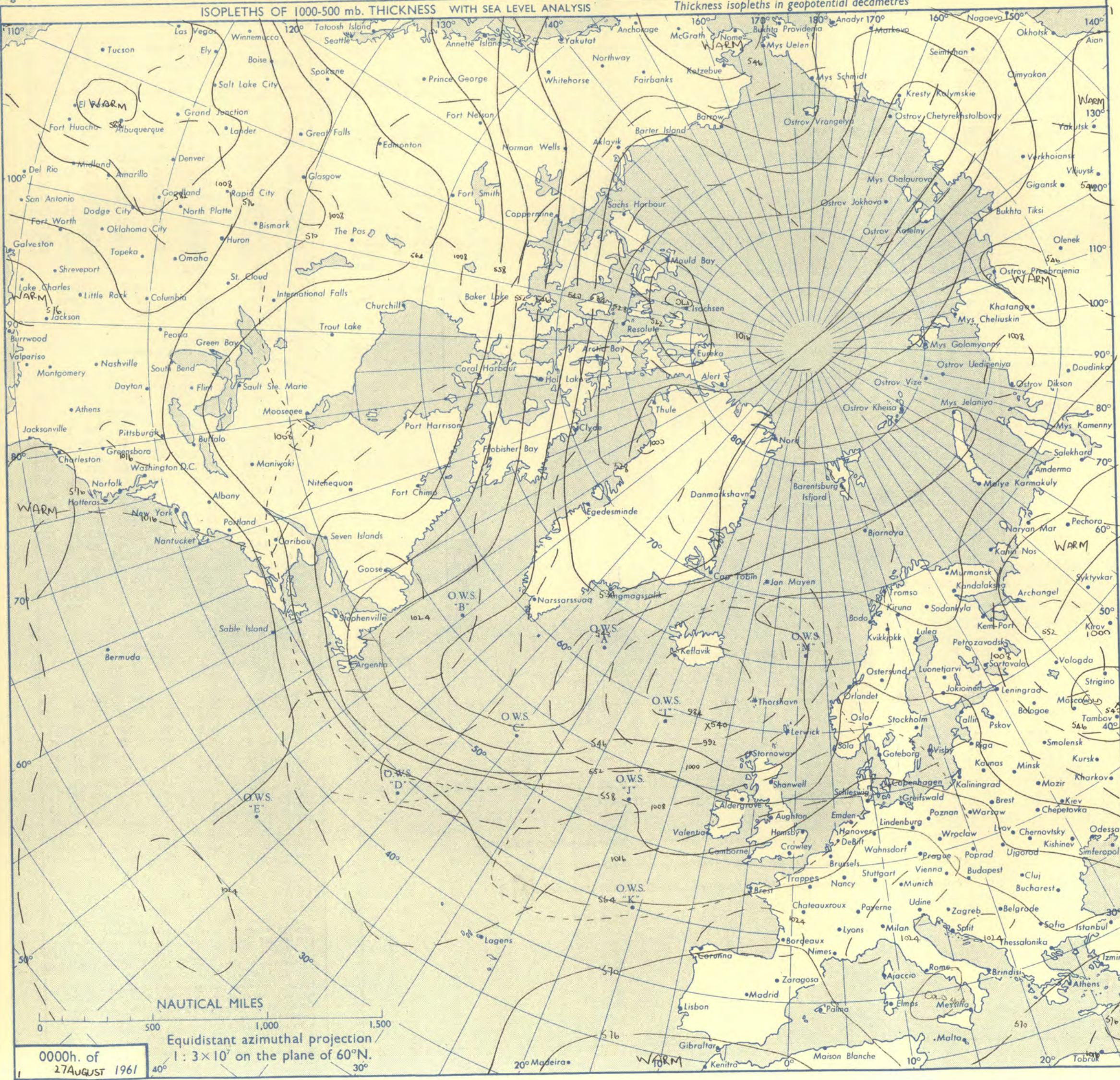
The trough which has just passed from eastern Canada into the north-western Atlantic sector is rapidly developing towards the formation of a new vortex, leading indirectly to ridging downstream in the sector containing the British Isles.

AVERAGE AND EXTREME VALUES 1951-55							
AUGUST							
LERWICK (Lat. 60° 08' N., Long. 01° 11' W.) at 03, 15h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22435	-47.1	-44	-56	201	3	7
60	19760	-48.1	-41	-54	213	4	9
100	16400	-48.3	-42	-57	235	9	14
150	13730	-48.4	-42	-63	242	13	21
200	11845	-49.7	-40	-64	243	16	34
300	9190	-44.7	-34	-53	232	17	41
400	7205	-30.0	-19	-39	230	15	33
500	5580	-18.4	-10	-27	229	13	27
700	2985	-2.7	4	-10	230	10	20
850	1425	4.8	16	-2	229	7	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		243	-54.8		10645		
Max.		367	-38		13990		
Min.		150	-66		7590		
LARKHILL/CRAWLEY† at 03, 15h. (Lat. 51° 12' N., Long. 01° 48' W./Lat. 51° 05' N., Long. 00° 13' W.)							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	22425	-49.2	-45	-56	158	2	6
60	19780	-50.8	-43	-57	224	3	9
100	16470	-52.4	-43	-62	267	13	18
150	13845	-52.3	-42	-69	273	23	31
200	11980	-52.4	-40	-63	274	29	43
300	9325	-42.4	-34	-52	271	27	45
400	7320	-27.2	-18	-37	270	23	36
500	5680	-15.7	-8	-24	267	20	30
700	3060	0.1	7	-6	262	14	22
850	1480	7.7	17	2	260	10	18
Tropopause		Press. (mb.)	Temp. (°C)		Height (gpm.)		
Average		226	-55.9		11245		
Max.		343	-41		14235		
Min.		145	-67		8230		
MALTA (Lat. 35° 50' N., Long. 14° 27' E.) at 03h.							
Press. Level	Average		Extreme Temps.		Wind*		
	Height	Temp.	Max.	Min.	V _R	V _S	
mb.	gpm.	°C	°C	°C	°	Kt.	Kt.
40	(22330)	(-55.6)	...	...	100	14	15
60	19780	-60.8	-54	-68	110	7	11
100	16655	-66.8	-58	-74	250	21	24
150	14175	-60.2	-53	-70	255	41	45
200	12345	-50.9	-44	-59	265	44	49
300	9620	-35.2	-29	-44	275	31	37
400	7555	-20.4	-16	-27	285	23	29
500	5865	-8.6	-4	-14	290	19	24
700	3170	8.9	13	1	310	15	19
850	1540	18.4	27	12	310	7	11
Tropopause		Average	Max.	Min.	Max.	Min.	
		Press. Temp.	Press.	Press.	Temp.	Temp.	
		mb. °C	mb.	mb.	°C	°C	
Upper		102	-68.1	...	72	...	-75
Lower		(195)	(-59.1)	...	...	...	...

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

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

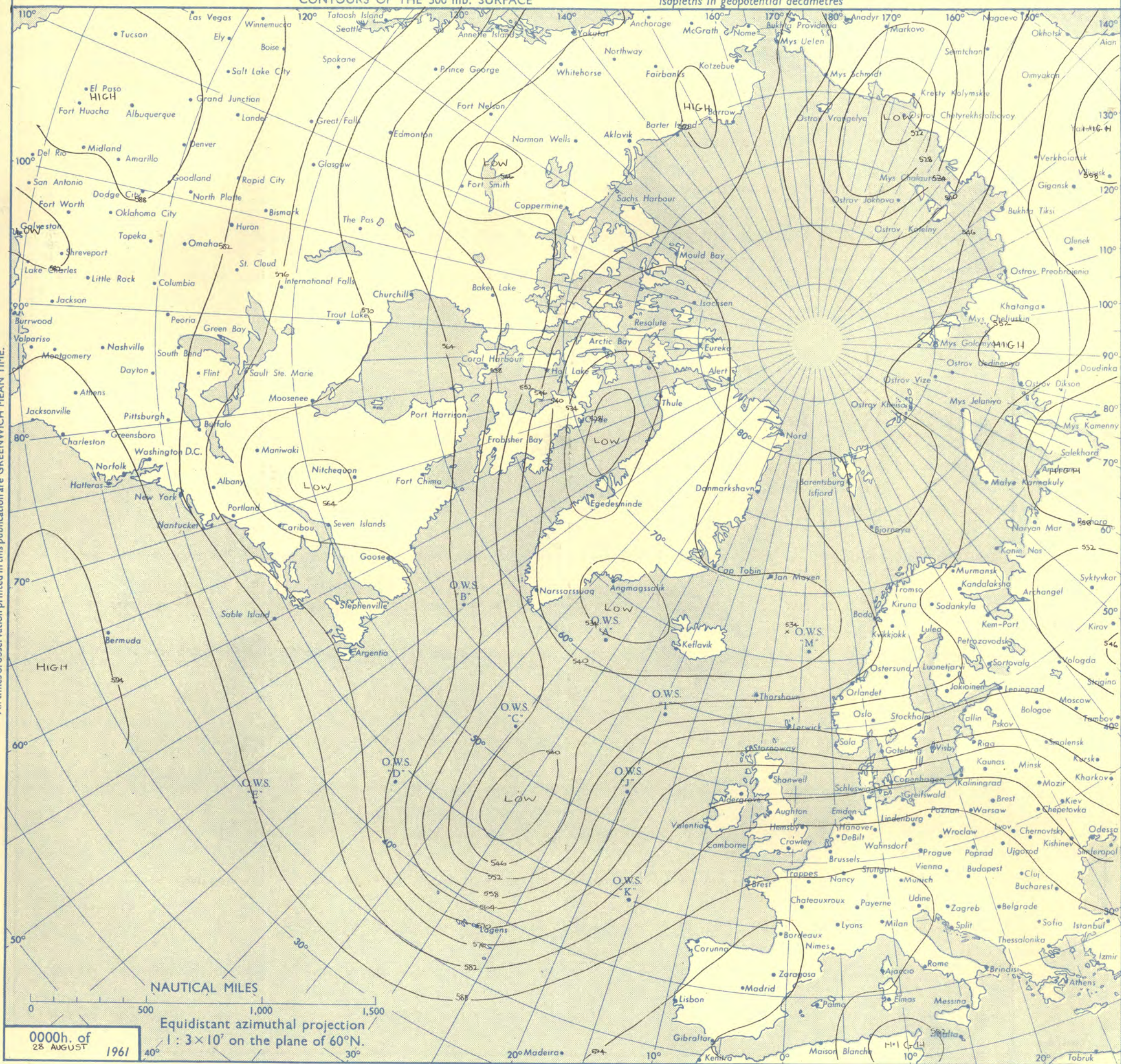
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



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	272330	082	11	10	081	11	10	1420	03	01-	2977	03-	17-	5552	18-	22-	7176	31-	35-	9146	48-	++	11770	50-	13657	49-															
	281130	082	13	13	122	12	11	1471	06	03	3041	01-	09-	5651	15-	18-	7308	25-	31-	9334	40-	46-	11971	61-	13791	53-	16413	50-	18747	49-											
STORNOWAY 03026	272336	013	13	12	092	12	11	1445	07	05	3017	02-	04-	5623	17-	23-	7263	27-	39-	9263	44-	++	11869	54-	13740	52-	16369	49-	18722	49-											
	281130	013	14	14	113	13	11	1470	08	06	3060	03	04-	5696	14-	33-	7357	24-	44-	9393	39-	++	12026	59-	13845	55-	16470	49-													
SHANWELL 03170	272330	005	16	12	146	15	10	1504	06	04	3090	02	10-	5712	15-	22-	7368	26-	41-	9384	43-	++	11994	58-	13831	53-	16453	52-	18776	49-											
	281130	005	21	14	161	18	12	1537	11	07	3147	04	04-	5783	16-	28-	7431	27-	43-	9448	41-	++	12084	61-	13884	58-	16438	58-	18741	53-	20914	52-	24237	49-							
ALDERGROVE 03917	272330	077	15	12	165	15	12	1525	08	02-	3113	03	24-	5741	15-	32-	7397	25-	31-	9423	41-	++	12053	61-	13859	57-	16425	56-	18734	52-	20918	50-	24268	48-							
	281130	077	20	13	155	18	14	1535	15	01	3146	04	05-	5781	17-	20-	7429	24-	34-	9464	39-	49-	12120	58-	13940	58-	16493	54-													
AUGHTON 03322	272330	056	13	09	200	14	10	1556	10	00	3149	02	09-	5773	12-	27-	7440	24-	39-	9470	40-	++	12109	61-	13891	59-	16455	55-	18736	55-											
	281130	056	21	12	200	19	12	1576	13	09	3190	05	00	5826	16-	19-	7495	23-	33-	9535	39-	49-	12176	61-	13960	60-	16504	58-	18783	55-	20955	51-									
HEMSBY 03496	272330	012	13	10	212	19	10	1585	11	00	3182	02	10-	5817	14-	30-	7483	24-	33-	9514	40-	47-	12149	62-	13946	59-															
	281130	012	22	10	225	18	07	1593	13	12-	3197	03	09-	5838	12-	32-	7510	22-	43-	9552	39-	++	12195	60-	13975	62-	16496	59-	18740	57-	20891	54-									
CRAWLEY 03774	272330	144	14	14	226	13	11	1601	11	06	3204	03	04-	5856	12-	35-	7523	24-	41-	9554	40-	++	12192	61-	13989	59-	16546	57-	18819	56-	20982	52-									
	281130	144	22	15	228	21	14	1606	13	02-	3218	04	08-	5879	10-	30-	7566	21-	40-	9629	36-	++	12318	57-	14101	64-	16593	63-	18782	63-	20877	59-									
CAMBORNE 03808	272330	088	14	14	218	17	11	1587	12	02-	3194	05	13-	5860	11-	28-	7540	22-	39-	9580	39-	++	12228	60-	14010	61-	16550	58-	18806	55-											
	281130	088	18	16	200	15	13	1594	19	00	3218	06	05-	5871	10-	26-	7555	21-	38-	9615	37-	++	12283	58-	14077	60-	16609	60-													
VALENTIA 03953	272330	014	16	14	166	15	13	1538	10	07	3137	03	09-	5780	13-	27-	7440	24-	40-	9470	39-	++	12120	60-	13900	60-	16450	56-													
	281147	014	20	15	129	18	15	1514	16	01	3135	06	04-	5780	15-	22-	7440	25-	36-	9470	40-	50-	12110	57-	13920	58-	16480	59-	18720	59-											
Ocean Weather Station 'I' 59°00'N 19°00'W	280001		12	08	023	11	08	1355	01	04-	2901	04-	19-	5500	17-	20-	7140	29-	32-	9130	44-	++	11760	53-	13640	50-	16300	48-	18650	48-	20880	47-									
	281200		10	10	030-	++	++	1317	07	06	2895	01-	02-	5520	14-	17	7180	24-	28-	9220	39-	44-	11870	57-	13730	49-															
Ocean Weather Station 'J' 52°30'N 20°00'W	280001		15	15	032	15	15	1400	10	09	3001	01	05-	5650	12-	21-	7320	21-	27-	9370	37-	45-	12040	57-	13880	54-	16460	52-	18800	49-	21000	49-	24360	48-							
	281200		16	15	056-	++	++	1320	12	10	2932	03	03	5610	08-	14-	7300	20-	27-	9370	35-	44-	12040	57-	13890	52-	16530	49-	18890	46-	21140	44-	24580	++							

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE		
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 4557+	010 000 749	972 ++ 09 938 ++ 03 837 ++ 01- 831 02 03- 802 ++ 15- 789 03 16- 722 02- 26- 710 ++ 24- 672 ++ 10- 652 ++ 13- 624 08- 27- 570 ++ 29- 551 17- 25- 528 19- 24- 503 18- 22- 371 35- 39- 344 40- 44- 263 54- 250 54- 206 50- 114 48-	263 10000 54-				
	50 871++	015 005 720	988 ++ 10 966 10 08 758 02 01- 722 ++ 07- 677 ++ 12- 594 09- 13- 552 11- 15- 473 ++ 21- 407 24- 30- 363 31- 36- 322 36- 42- 250 50- 212 59- 182 63- 177 57- 160 53- 123 53- 100 50- 084 51- 078 48- 063 49-	182 12560 63-				
STORNOWAY 03026	50 863++	011 009 735	847 07 05 680 03- 05- 665 ++ 10- 581 09- 13- 513 16- 19- 489 ++ 25- 455 ++ 28- 404 27- 38- 321 40- 49- 250 54- 217 61- 200 54- 182 50- 151 52- 111 52- 092 45- 079 50- 060 49-	217 11390 61- 079 17930 50-				
	51 862++	014 012 660	005 13 11 805 ++ 05 794 ++ 05- 765 06 00 700 ++ 04- 685 ++ 15- 654 ++ 13- 627 02- 18- 572 08- 23- 409 23- 46- 313 37- 50- 250 51- 208 60- 102 49- 089 50-	208 11750 60-				
SHANWELL 03170	02 855++	017 017 677	008 16 10 920 ++ 09 888 ++ 07 826 05 03 815 07 02 808 ++ 03- 794 08 02- 729 04 08- 690 01 11- 645 03- 19- 600 07- 17- 560 ++ 22- 505 15- 21- 495 14- 21- 442 20- 34- 340 35- 50- 250 54- 246 55- 209 62- 200 58- 151 53- 100 52- 087 52- 073 48- 067 51- 056 50-	209 11700 62-				
	01 22601	019 018 657	958 14 11 930 15 11 878 12 09 848 ++ 07 799 11 01 780 ++ 03 752 09 02- 721 ++ 02- 702 ++ 04- 695 ++ 04- 674 ++ 07- 662 ++ 06- 617 05- 11- 595 05- 18- 580 ++ 22- 534 12- 22- 468 ++ 34- 340 35- 50- 250 50- 196 62- 159 58- 100 58- 087 51- 073 51- 065 56- 058 50- 049 53- 030 49-	196 12200 62-				
ALDERGROVE 03917	01 2557+	019 010 666	948 ++ 11 880 ++ 04 826 07 10- 803 ++ 07- 795 08 09- 780 ++ 14- 739 05 22- 678 01 29- 614 ++ 24- 584 08- 27- 27- 557 10- 29- 505 ++ 33- 448 ++ 27- 388 27- 32- 304 ++ 46- 250 51- 206 61- 196 62- 166 57- 099 56- 087 51- 063 52- 030 48-	206 11880 61-				
	01 32680	019 009 655	000 18 14 951 14 12 929 14 11 908 18 11 892 ++ 01 823 ++ 01 769 ++ 04 700 ++ 05- 666 ++ 03- 596 05- 09- 533 13- 16- 448 ++ 27- 438 23- 30- 414 22- 31- 306 38- 48- 250 49- 208 58- 165 56- 118 61- 096 51- 078 55-	208 11840 58-				
AUGHTON 03322	02 00900	024 017 673	012 14 10 965 13 08 922 10 08 872 ++ 06 863 08 03 850 10 00 812 10 00 738 04 05- 665 ++ 14- 605 06- 20- 530 09- 25- 317 37- 50- 250 50- 188 65- 158 59- 087 54- 067 55-	188 12490 65-				
	02 12531	024 017 653	982 17 11 945 15 10 932 ++ 10 908 ++ 05 899 15 07 881 ++ 09 832 12 08 821 13 05 774 11 03 664 01 03- 528 13- 17- 489 17- 20- 457 15- 23- 419 ++ 30- 296 40- 50- 250 51- 189 62- 098 58- 079 52- 072 56- 037 47-	189 12510 62-				
HEMSBY 03496	02 00900	025 023 668	021 18 12 000 19 10 899 11 07 874 ++ 01 864 12 00 840 11 02- 796 09 04- 705 ++ 08- 690 ++ 11- 584 08- 22- 539 09- 24- 489 15- 29- 467 15- 31- 445 ++ 35- 385 ++ 35- 302 40- 47- 250 50- 199 63- 164 58- 141 59-	199 12180 63-				
	02 00902	026 025 673	025 22 10 000 18 07 940 ++ 07 933 12 03 913 13 02- 878 ++ 02- 820 13 21- 757 ++ 21- 698 ++ 09- 636 04- 12- 612 05- 20- 545 08- 29- 404 21- 43- 340 32- 50- 250 50- 214 58- 188 62- 076 59- 050 54-	188 12570 62-				
CRAWLEY 03774	42 761++	027 010 659	999 13 11 985 18 14 963 17 08 880 ++ 08 850 ++ 06 836 ++ 00 820 ++ 02 798 09 06- 774 09 06- 760 ++ 07- 736 ++ 00 715 ++ 01- 665 ++ 14- 646 ++ 12- 636 02- 15- 625 01- 16- 605 02- 22- 370 28- 44- 328 35- 50- 250 50- 198 61- 069 56- 043 51-	198 12240 61-				
	02 11501	027 010 658 634	981 18 12 934 14 10 899 13 09 888 ++ 01- 878 14 00 861 ++ 01 845 ++ 04- 750 ++ 12- 739 09 09- 649 01- 09- 638 00 12- 547 ++ 26- 449 15- 34- 323 ++ 50- 250 46- 205 56- 163 64- 076 65- 052 58- 035 61-	163 13590 64-				
CAMBORNE 03808	41 760++	026 016 640	995 17 09 915 ++ 08 905 12 09 863 13 05- 816 10 04 795 10 06- 704 06 15- 685 04 09- 618 ++ 10- 597 04- 14- 582 03- 16- 562 05- 21- 543 05- 22- 502 11- 28- 455 15- 33- 324 35- 50- 250 49- 204 60- 167 63- 094 57- 058 56-	167 13360 63-				
	01 56400	024 013 648	002 16 14 985 15 13 958 ++ 11 951 20 03- 935 ++ 11 930 ++ 08 913 18 09 897 ++ 08 880 ++ 02- 873 20 01- 786 ++ 02 672 03 06- 636 ++ 07- 616 03- 11- 546 10- 17- 527 ++ 22- 510 09- 25- 379 23- 40- 310 35- 49- 250 48- 182 61- 098 61- 086 56- 072 58-	182 12870 61-				
VALENTIA 03953	58 862++	019 018 660	902 13 11 778 06 02 754 07 01- 722 05 12- 687 02 09- 590 06- 24- 538 09- 25- 477 16- 31- 303 38- 50- 257 48- 250 50- 212 58- 191 61- 172 62- 136 59- 115 59- 104 56-	191 12400 61-				
	01 22501	015 014 635	984 16 13 946 14 12 922 18 06 852 17 02 723 08 08- 674 03 03- 603 03- 10- 528 13- 16- 462 18- 29- 287 42- 263 49- 250 51- 218 57- 113 58- 064 60-	218 11500 57-				
Ocean Weather Station 'I' 59°00'N 19°00'W	02 21530	003 003 816	934 ++ 04 914 05 02 882 ++ 00 854 02 02- 785 01- 11- 720 ++ 19- 694 ++ 19- 674 04- 20- 643 07- 28- 633 ++ 29- 618 07- 24- 585 09- 19- 564 ++ 16- 555 12- 15- 503 17- 20- 415 27- 29- 372 32- 36- 322 40- 44- 261 51- 250 52- 214 58- 205 54- 171 50- 138 50- 100 48- 086 48- 050 47-	214 11300 58-				
	63 872++	996 996 718	985 ++ 08 937 07 06 888 09 08 763 03 02 423 21- 25- 295 40- 45- 250 49- 233 54- 202 57- 160 51- 118 49- 113 47- 105 50-	202 11800 57-				
Ocean Weather Station 'J' 52°30'N 20°00'W	02 864++	003 003 685	970 14 14 853 10 10 817 09 08 743 05 04- 686 00 05- 639 02- 15- 608 03- 06- 563 07- 09- 506 11- 21- 448 17- 25- 371 25- 31- 282 39- 46- 250 47- 207 57- 188 57- 170 53- 134 55- 074 50- 028 48-	207 11800 57-				
	873++	992 992 650	967 16 16 935 15 15 894 14 06 835 11 11 776 08 08 688 02 02 554 04- 04- 507 07- 12- 477 10- 17- 372 24- 29- 340 28- 37- 278 40- 48- 250 46- 220 55- 202 57- 139 51-	202 12000 51-				

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	272330	T	240 20	+++ ++	250 29	250 29	250 37	260 53	260 58	250 73	260 79	270102	270103	270 65							
	280530	P	240 11	+++ ++	250 18	260 27	270 38	270 44	270 52	270 60	270 68	270 76	270 84	270 68	270 56						
	281130	T	220 13	+++ ++	240 27	250 35	250 37	260 38	260 45	260 54	270 59	270 70	280 75	280 70	280 50						
	281730	P	190 15	+++ ++	200 24	220 28	240 34	240 40	240 52	240 50	250 41	260 39	280 44	290 47	270 54	270 34	300 28				
STORNOWAY 03026	272336	T	000 00	+++ ++	250 33	250 44	250 44	250 52	260 49	260 61	260 71	270 87	270 87	270 77	250 49	260 37	230 26				
	280540	P	200 18	+++ ++	240 33	250 33	250 37	250 47	250 46	260 52	270 59	270 65	280 65	270 74	270 56						
	281130	T	190 18	+++ ++	220 40	210 38	220 46	230 50	240 57	240 53	240 48	240 48	240 48	250 53	260 46	240 24					
	281730	P	190 27	+++ ++	210 48	220 47	230 48	240 59	240 54	250 47	250 33	270 21	290 38	290 45	250 43	250 31	250 30				
SHANWELL 03170	272330	T	240 16	+++ ++	250 38	240 40	250 43	260 46	260 49	270 46	270 46	270 67	270 73	270 75	280 60						
	280530	P	270 06	+++ ++	260 33	260 35	260 39	260 30	260 31	270 45	270 51	270 56	270 65	270 76	280 65	270 23	270 16	220 07			
	281130	T	250 22	+++ ++	240 33	240 36	240 35	250 36	260 41	260 36	240 31	250 55	260 68	260 79	260 37	260 33	260 33	330 11			
	281730	P	260 15	+++ ++	230 35	220 43	230 47	240 52	240 65	240 62	240 47	250 35	250 34	260 42	280 43	250 38	270 12	270 10			
ALDERGROVE 03917	272330	T	190 10	+++ ++	250 29	260 34	250 30	230 33	240 33	250 45	260 51	260 65	260 75	270 76	270 51						
	280530	P	180 10	+++ ++	230 32	230 30	230 30	260 39	260 44	250 42	250 42	260 48	260 60	260 61	260 54	260 44					
	281130	T	170 19	+++ ++	210 32	220 35	220 40	230 45	240 55	240 49	220 53	220 71	220 78	220 75	240 42						
	181730	P	160 17	+++ ++	210 40	220 48	230 44	230 57	230 57	250 52	250 40	270 44	290 41	270 41	250 39	250 35	260 21				
AUGHTON 03322	272330	T	180 02	+++ ++	260 20	250 20	240 22	240 30	260 35	260 42	270 49	270 60	280 56	290 62	270 57	270 33					
	280530	P	170 03	+++ ++	250 12	260 13	260 21	260 37	270 41	260 34	260 40	270 48	270 57	280 71	280 63	270 36	280 19	310 06			
	281130	T	170 07	+++ ++	210 19	230 18	240 22	260 27	280 28	270 26	250 45	250 51	250 55	260 61	270 43	280 25	270 19	280 05	050 06		
	281730	P	170 09	+++ ++	210 23	230 27	230 27	240 26	240 25	230 25	250 61	260 60	260 56	260 59	260 51	270 28	300 11	360 03	200 03		
HEMSBY 03496	272330	T	200 02	230 13	230 15	230 12	230 16	260 22	260 25	270 28	280 40	280 45	290 42	300 51	290 43	P270 35					
	280530	P	250 03	+++ ++	240 15	240 20	240 22	230 17	260 20	270 31	280 33	280 45	290 45	290 52	290 45	290 39					
	281130	T	230 07	+++ ++	250 11	250 14	270 13	300 13	300 18	260 24	280 43	290 53	300 57	300 63	300 42	290 22	280 17				
	281730	P	160 08	+++ ++	250 08	280 06	310 06	340 11	350 17	270 15	260 39	270 44	270 49	270 52	280 37	300 24					
CRAWLEY 03774	272330	T	240 05	+++ ++	240 13	230 15	250 16	230 18	260 17	280 22	290 31	290 36	290 41	300 51	280 39	270 37	270 20	290 04			
	280530	P	000 00	+++ ++	230 12	240 14	250 16	280 17	260 18	270 23	270 34	290 39	290 46	310 64	300 51	290 34	290 18				
	281110	P	180 04	+++ ++	240 09	240 08	310 06	320 12	300 11	270 20	270 28	290 42	290 38	290 46	290 34	290 23	300 13	340 05	110 08	100 07	050 03
	281730	P	000 00	+++ ++	180 09	120 02	040 04	040 14	030 10	260 27	260 33	260 36	260 36	270 42	280 35	290 21	290 09	340 06	320 05		
CAMBORNE 03808	272330	T	170 08	+++ ++	190 11	240 15	250 21	280 24	270 26	260 27	260 37	280 47	280 56	280 66	270 54	260 30	270 16				
	280530	P	150 14	+++ ++	190 18	240 12	250 14	270 20	300 21	270 25	250 39	260 46	260 42	260 48	260 46	270 33	270 17				
	281130	T	150 12	+++ ++	180 23	210 16	230 14	240 11	220 09	230 36	230 44	220 49	230 55	240 51	250 35	270 21					
	281730	P	130 16	+++ ++	180 24	160 17	150 12	150 08	150 16	210 23	210 41	210 49	200 46	220 43	240 35	250 21					
VALENTIA 03953	272330	T	170 16	170 23	200 33	210 32	220 35	250 46	250 52	230 40	240 52	250 56	250 66	250 77	260 60	260 35					
	281135	P	180 20	+++ ++	190 50	210 55	210 60	210 64	210 64	220 63	230 62	230 64	240 48	230 68	220 45	240 37	220 14	220 06			
Ocean Weather Station 'I' 59°00'N 19°00'W	280001	T	230 21	+++ ++	230 24	230 23	240 25	240 39	240 53	230 67	230 75	240 85	250 86	250 69	240 45	240 29	240 21				
	280600	P	180 10	+++ ++	190 10	190 15	220 33	220 45	230 48	230 51	220 71	230 87	230 91	240 70	250 44	230 26					
	281200	T	050 18	+++ ++	150 29	180 28	200 45	210 40	200 45	210 57	230 70	220 87	230 95	250 94	230 49	P220 35					
	281800	P	145 10	+++ ++	200 16	200 27	200 36	210 37	220 43	220 46	210 63	210 90	200 96	210 90	210 69	240 49	210 26				
Ocean Weather Station 'J' 52°30'N 20°00'W	280001	T	150 17	150 17	190 36	190 36	190 41	190 51	190 48	200 54	210 58	220 48	220 57	220 54	220 60	220 29					
	280600	P	160 23	+++ ++	180 37	190 40	190 46	190 49	190 51	200 54	200 47	200 40	190 45								
	281200	T	150 31	+++ ++	180 61	180 60	180 59	180 44	180 51	190 50	190 53	190 60		190 61							
	281800	P	160 26	+++ ++	180 48	190 56	180 58	180 66	180 77	180 83	180 87n	180100	180 91								
LARKHILL 03743	280630	P	000 00	+++ ++	240 07	260 12	270 14	300 14	290 25	260 24	280 37	270 44	290 56	290 60	290 52	280 32					
	281030	P	140 05	+++ ++	310 10	240 09	350 12	330 23	270 24	270 33	270 41	270 38	290 46	280 37	290 29						

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
281356	46.2°N 23.9°W	998 990 738	60 15 10	015- 13 06	869 09 06	1338 05 02	1831 03 02	2101 03 02	2501 02 02	2901 02 02	3301 02 02	3701 02 02	4101 02 02	4501 02 02
Cloud :— 2/8Cu. 2200 to 3600ft. 3/8Cu. 2200 to 4800ft. 2/8As. 10000 to TNG. 2/8Ci. 25000ft. to TNG.														
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			

UPPER WINDS AT ADDITIONAL LEVELS

Page 5

STATION		MAX. WIND
LERWICK 03005	151mb 270 48 15300m 270 42 01600/0 13450/1 130mb 280 47 19600m 230 14	270 113 09860m 270 104 11300m 280 79 10780m
STORNOWAY 03026	061mb 270 16 15650m 260 44 12000/0 13100/1 20200m 250 14 10250/0 10660/0 11660/1	270 95 11100m 270 83 12280m 290 63 11480m
SHANWELL 03170	121mb 260 45 05490/0 14060/1 14580/1 040mb 290 09 23550m 250 06 13700/1	280 93 11430m 270 78 12410m 260 79 12200m 240 66 04440m
ALDERGROVE 03917	121mb 260 45 16800m 260 40 120mb 240 33 19800m 270 07	270 79 11820m 270 84 12410m 220 81 10930m
AUGHTON 03322	075mb 260 21 02060/0 13410/1 06510/0 06920/0 14220/1	280 64 12780m 280 74 12540m 260 68 12200m 250 67 08140m
HEMSBY 03496	P17090m 270 30 055mb 310 06 04770/5 05590/0	300 68 12220m
CRAWLEY 03774	28800m 050 10 33000m 090 04 26100m 040 10 04690/6	300 66 12250m
CAMBORNE 03808	063mb 260 18 19200m 260 07 17130/1 077mb 250 16 542mb 230 23 17400m 260 17 05380/0 05780/0 13580/1	290 69 12450m
VALENTIA 03953	00300m 170 35 00600m 180 44 18000m 220 13 21600m 220 03	250 81 12480m 230 68 12070m
Ocean Weather Station 'I' 59°00'N 19°00'W	052mb 240 22 16800m 230 36 02410/0 13110/1 17400m 220 25 19500m 210 30 07450/0 13400/1	250 97 09930m 230 108 11230m 230 115 10850m 200 108 10700m
Ocean Weather Station 'J' 52°30'N 20°00'W	655mb 190 54 334mb 210 59 124mb 220 63 097mb 220 28 471mb 200 57 215mb 190 51 340mb 190 53 184mb 190 64 240mb 180 89	220 63 15100m 190 65 19870m
LARKHILL 03743	04550/5	290 62 12200m

NOTES ON THE AEROLOGICAL SITUATION

The vortex in mid-Atlantic is now well developed, and on its eastern flank a ridge has correspondingly developed in the contour pattern and in the pattern of thickness. The thickness ridge is associated with a warm spell setting in over the British Isles and adjacent parts of Europe.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

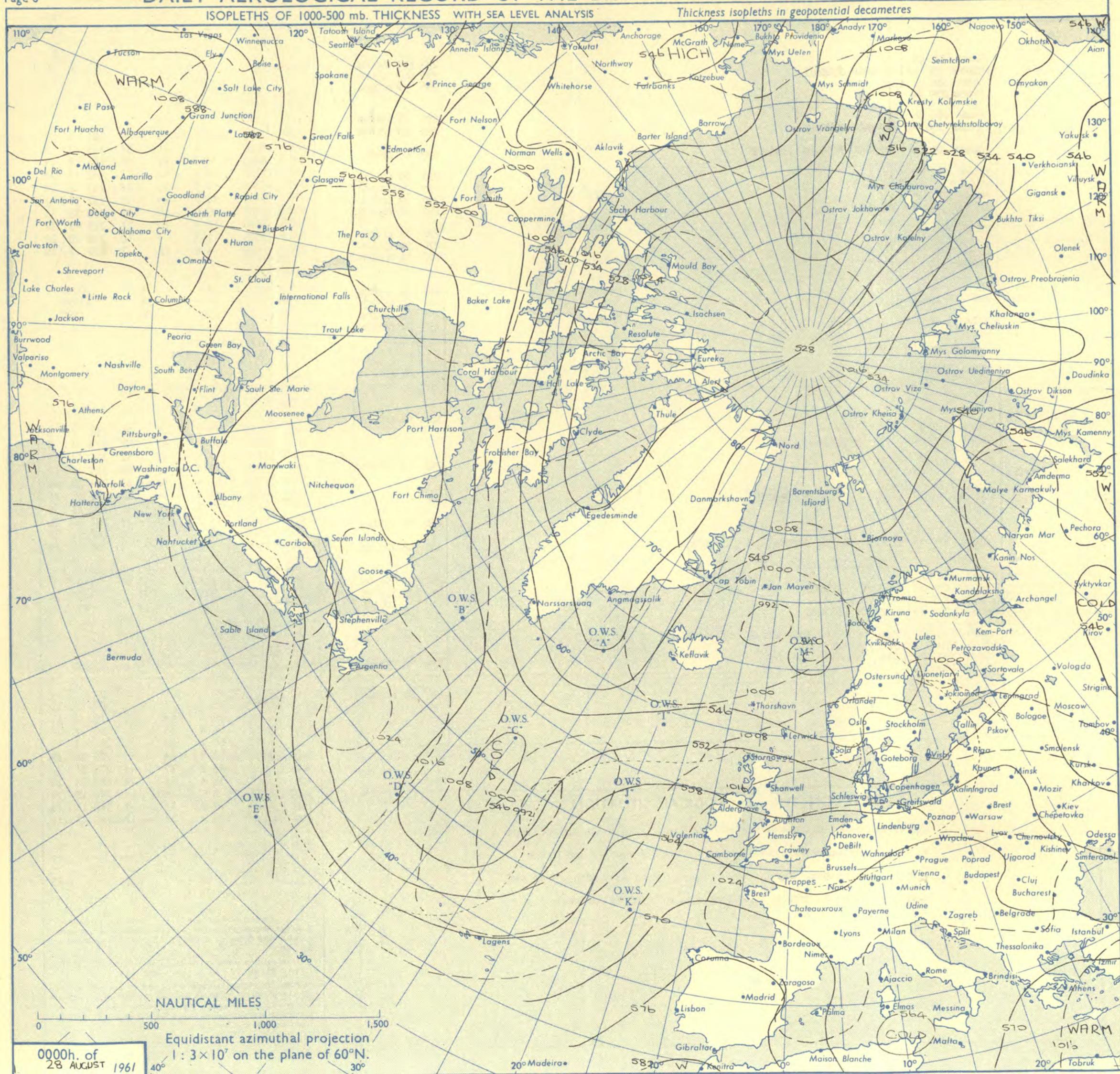
Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	102	-68.1	...	72	...	-75
Lower	(195)	(-59.1)	...	...	...	...

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

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

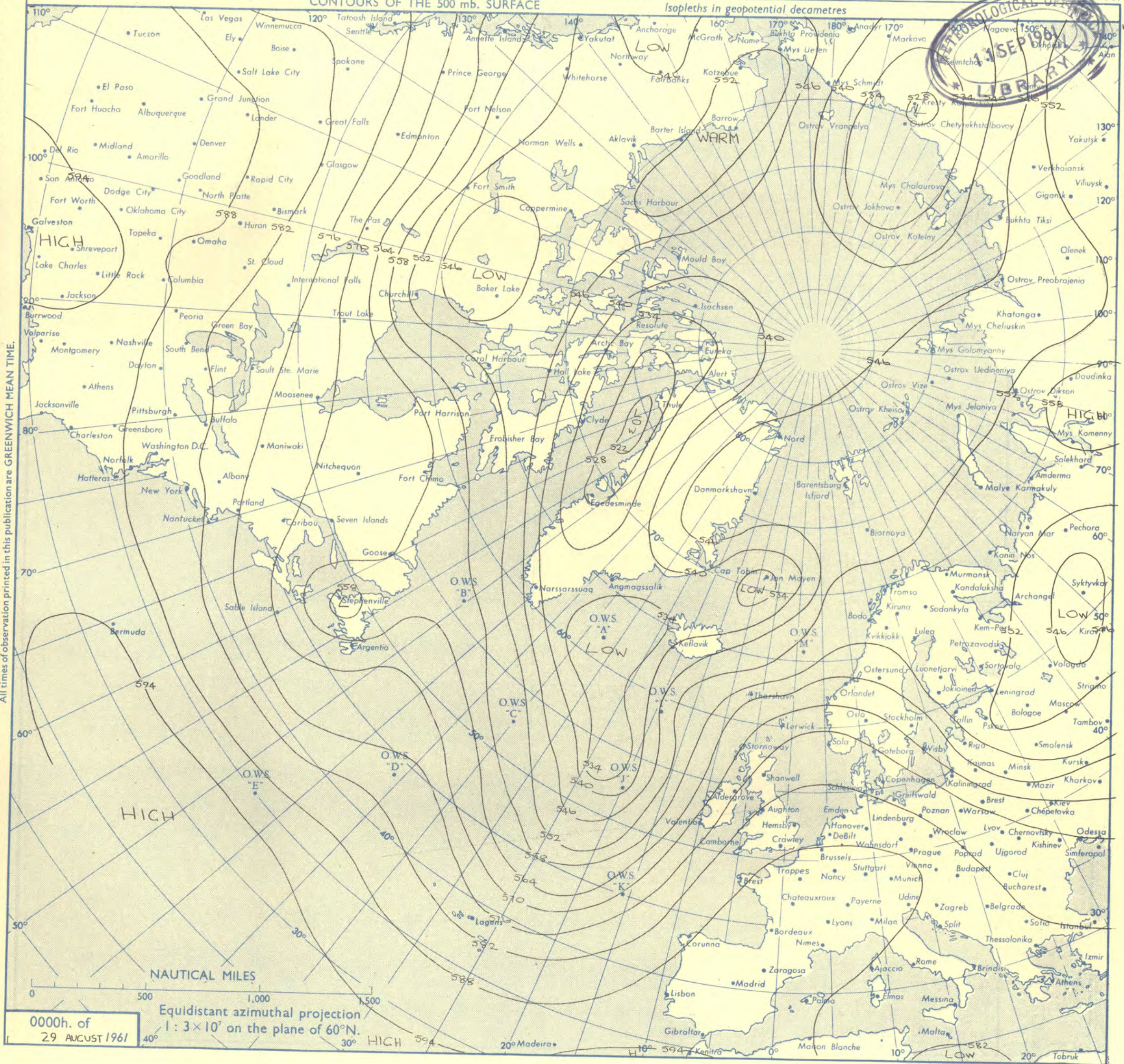
Notes: No vector average winds and no extreme values for any element are given for less than 10 observations. Otherwise no averages are given for less than 3 observations and average values based on less than 10 observations are given in brackets.



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



0000h. of
29 AUGUST 1961

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

30° HIGH 594

20° Madeira

H 10° 594

Kenitra

Marion Blanche

10°

LOW 582

Tobruk

20°

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	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C		
LERWICK 03005	282330	082 12 11 104 14 12 1478 10 07 3080 03 02- 5730 13- 19- 7401 22- 34- 9451 39- 48- 12093 61- 13882 58- 16464 53-																														
	291130	082 17 12 093 18 12 1494 18 06 3119 05 06- 5752 17- 22- 7415 24- 39- 9455 38- ++ 12130 58- 13939 57- 16507 56- 18782 54- 20943 55- 24221 54-																														
STORNOWAY 03026	282330	013 14 13 083 15 13 1462 15 03- 3080 05 09- 5724 13- 26- 7397 22- 33- 9451 38- 48- 12107 58- 13891 57- 16470 55-																														
	291140	013 20 14 026 19 11 1410 11 06 3016 04 04- 5670 14- 21- 7329 23- 28- 9384 36- 44- 12087 56- 13910 50- 16550 52- 18868 50- 21069 50-																														
SHANWELL 03170	282330	005 12 10 146 16 13 1525 16 03- 3145 06 01- 5794 12- 19- 7464 23- 35- 9514 38- ++ 12164 60- 13947 59- 16506 56- 18795 54- 20970 51-																														
	291130	005 22 13 104 21 13 1501 17 01- 3121 05 08- 5775 13- 21- 7438 24- 28- 9483 37- 42- 12147 62- 13970 54- 16556 57- 18845 54-																														
ALDERGROVE 03917	282330	077 15 12 120 16 12 1513 18 01 3134 05 07- 5766 17- 23- 7427 25- 39- 9467 40- ++ 12112 61- 13914 58- 16461 57- 18734 55- 20904 53- 24233 49-																														
	291130	077 20 14 061 ++ ++ 1448 14 02 3060 04 02- 5711 11- 15- 7388 22- 29- 9439 37- 44- 12127 56- 13963 51- 16593 55-																														
AUGHTON 03322	282330	056 18 15 167 20 14 1568 18 00 3192 05 06- 5831 15- 22- 7511 21- 35- 9567 38- ++ 12228 58- 14035 59- 16598 58- 18881 52-																														
	291148	056 25 15 111 24 14 1517 19 00 3143 07 09- 5798 14- 17- 7466 22- 31- 9506 39- 44- 12162 59- 13979 55- 16547 58-																														
HEMSBY 03496	282330	012 15 14 203 19 12 1591 16 02- 3210 05 03- 5863 10- 27- 7548 21- 38- 9603 37- ++ 12268 59- 14063 60- 16601 59- 18857 56- 21014 54-																														
	291130	012 21 16 170 17 11 1560 14 00 3173 05 23- 5839 11- 39- 7508 25- 46- 9533 40- ++ 12195 57- 14001 59-																														
CRAWLEY 03774	282330	144 16 13 195 19 14 1591 18 05- 3212 05 13- 5888 08- 31- 7578 21- 43- 9636 37- ++ 12315 57- 14115 59- 16649 59- 18900 57-																														
	291330	144 28 16 140 ++ ++ 1551 17 03 3179 08 25- 5863 09- 36- 7537 24- ++ 9572 39- ++ 12247 55- 14090 55- 16662 57- 18947 53-																														
CAMBORNE 03808	292330	088 16 15 148 17 14 1549 17 05 3168 06 14- 5835 11- 31- 7511 23- 42- 9556 38- ++ 12246 53- 14077 57- 16631 59- 18878 56- 21034 52-																														
	291130	088 23 14- 107 22 14 1514 19 03 3148 06 06- 5801 13- 24- 7471 23- 34- 9514 38- 48- 12182 58- 13994 56- 16561 59- 18793 58- 20935 55-																														
VALENTIA 03953	282354	014 19 14 072 19 14 1465 19 02- 3096 06 02- 5750 15- 17- 7410 22- 28- 9470 37- 47- 12140 61- 13970 53- 16560 55-																														
	291130	014 18 13 066 18 13 1429 08 03 3015 02 12- 5650 15- 32- 7300 24- 41- 9340 39- ++ 12010 53- 13900 49- 16530 54-																														
Ocean Weather Station 'I' 59°00'N 19°00'W	290001	13 13 122- ++ ++ 1240 10 08 2838 04 28- 5480 13- ++ 7150 22- 31- 9200 38- 43- 11860 57- 13730 51- 16370 49-																														
	291200	12 12 163- ++ ++ 1177 05 02 2735 04- 11- 5320 20- 28- 6930 33- 40- 8890 49- ++ 11620 41- 13570 43- 16290 45-																														
Ocean Weather Station 'J' 52°30'N 20°00'W	290001	16 12 088- ++ ++ 1270 07 05 2845 01- 10- 5450 14- 34- 7110 24- 47- 9160 36- 57- 11910 44- 13830 46- 16500 48- 18840 49- 21060 49-																														
	291200	15 12 034 14 11 1380 03 02 2938 02- 05- 5560 14- 34- 7210 26- 44- 9220 41- ++ 11920 44- 13850 43- 16580 43-																														

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS

Page 3

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPopause	
		MSL	Surf.	0°C level		mb	m	°C
LERWICK 03005	02 25531	012 003 652	997 16 13 974 18 11 963 ++ 10 857 10 07 846 ++ 08 831 10 03 826 ++ 01 820 11 04 802 ++ 08 768 ++ 06 730 ++ 00 705 ++ 01 690 ++ 05 645 ++ 02 585 04 16 570 ++ 21 510 12 19 468 15 28 446 ++ 21 424 ++ 29 398 ++ 35 364 ++ 35 340 30 39 294 40 47 250 50 208 60 180 64 160 58 140 58 100 53 072	180	12740	64	
	02 30980	010 001 650	974 21 12 911 18 08 893 21 06 883 ++ 04 858 ++ 06 696 05 06 570 ++ 14 556 12 16 533 ++ 19 506 17 21 491 17 24 479 15 27 353 30 44 316 35 49 250 47 201 58 185 60 100 56 061 53 052 55 030 54	185	12610	60	
STORNOWAY 03026	01 10930	010 008 650	992 16 14 911 ++ 12 902 14 11 896 15 10 879 14 04 867 16 02 810 ++ 08 771 11 01 603 ++ 15 568 08 18 445 ++ 30 361 27 38 290 40 50 250 49 238 52 180 64 150 57 090 54	180	12750	64	
	01 20982	003 002 649	998 19 10 984 22 12 969 ++ 10 851 ++ 06 845 10 04 814 ++ 01 805 11 03 787 11 08 702 ++ 04 600 04 11 563 06 16 457 19 24 420 21 26 391 ++ 28 366 26 31 312 34 42 278 40 47 250 44 183 60 156 55 152 50 099 52 066 49 037 51	183	12650	60	
SHANWELL 03170	02 00900	017 017 642	005 16 13 921 15 09 911 17 10 879 16 06 857 17 02 780 ++ 06 743 ++ 01 732 09 04 693 ++ 01 653 ++ 05 639 ++ 08 598 05 11 570 ++ 16 510 13 18 502 12 19 489 ++ 24 478 13 25 433 20 32 385 24 37 305 37 49 250 50 232 54 223 54 180 65 159 59 100 56 067 52 046 53	180	12810	65	
	03 10937	012 012 639	912 17 10 871 ++ 07 845 18 01 704 05 07 662 ++ 14 593 ++ 11 493 ++ 22 448 19 26 397 ++ 29 283 40 46 250 47 199 62 165 54 122 54 102 58 100 57 092 54 059 54	199	12180	62	
ALDERGROVE 03917	01 15601	014 005 654	985 17 10 902 ++ 07 883 ++ 01 874 20 01 804 ++ 01 783 ++ 03 770 ++ 05 688 ++ 08 662 ++ 06 622 04 11 597 ++ 18 580 07 17 503 ++ 22 499 18 24 484 16 27 459 17 30 381 28 42 366 28 42 312 ++ 50 282 43 250 49 190 63 168 57 119 60 089 54 078 57 030 49	190	12410	63	
	02 5569+	007 998 652	975 17 11 913 17 08 883 ++ 07 865 15 03 768 10 02 652 00 04 627 ++ 07 518 12 15 509 11 15 456 15 20 439 18 24 412 ++ 29 295 37 43 250 51 189 59 158 51 117 50 098 55 092 54	189	12480	59	
AUGHTON 03322	02 10930	020 013 647	981 21 10 916 20 08 873 19 02 842 ++ 01 821 16 02 772 13 01 730 ++ 07 678 03 06 586 06 16 528 ++ 19 507 17 22 492 14 23 464 14 26 403 20 34 306 37 50 250 49 190 60 180 60 168 57 097 58 085 53 079 54 060 51	190	12540	60	
	02 55631	013 006 635	970 21 14 948 22 13 906 ++ 11 896 19 08 885 20 07 857 19 01 786 ++ 07 689 05 09 665 ++ 05 572 07 12 538 10 13 483 ++ 19 480 17 20 465 ++ 27 458 16 27 428 19 27 415 ++ 29 340 33 39 293 40 45 250 49 197 59 146 54 132 58 085 58 080 54	197	12250	59	
HEMSBY 03496	02 00900	024 022 654	004 19 13 982 ++ 10 969 19 12 920 17 03 890 ++ 10 865 18 06 857 17 02 800 13 00 740 ++ 06 654 00 04 595 05 15 546 10 19 528 09 24 484 11 31 311 35 49 250 48 206 58 184 66 089 60 082 55 047 54	184	12780	60	
	02 00900	020 018 630	999 17 11 992 20 13 974 ++ 11 959 20 13 935 ++ 08 908 ++ 09 830 13 03 761 11 17 693 05 23 515 09 37 383 28 49 250 48 191 59 131 59	191	12470	59	
CRAWLEY 03774	02 00900	023 006 620	997 22 15 990 ++ 13 928 19 10 910 ++ 05 866 ++ 04 818 17 07 663 01 16 627 01 19 605 02 22 582 01 23 471 11 34 351 ++ 49 250 47 181 61 081 59 065 55	181	12930	61	
	02 00900	016 000 612	985 25 14 948 22 13 925 22 10 812 12 01 797 ++ 10 788 14 11 724 10 22 577 04 32 548 04 32 521 06 34 428 20 45 250 48 189 56 169 53 146 56 099 57 058 50	189	12600	56	
CAMBORNE 03808	02 00900	018 007 624	981 ++ 13 968 22 15 910 ++ 12 881 ++ 06 792 13 03 743 ++ 02 716 06 09 679 06 17 613 01 19 517 10 30 338 32 50 250 46 178 57 167 56 097 59 032 50	178	12990	57	
	02 60781	012 002 648	971 19 13 911 ++ 13 896 22 06 736 10 04 672 ++ 07 611 ++ 07 577 07 09 478 14 27 348 31 40 287 40 50 250 48 183 61 170 57 124 56 076 61 062 55 037 55	183	12730	61	
VALENTIA 03953	25 52500	008 007 640	945 14 10 903 22 07 803 16 01 640 00 08 590 05 07 492 16 18 463 18 23 451 17 22 334 30 41 250 47 238 51 200 61 172 54 150 53 133 57 093 55	200	12100	61	
	02 22502	008 006 665	961 14 10 901 09 06 879 09 05 800 05 01 765 05 07 624 02 18 556 10 26 420 23 40 386 24 41 284 43 250 48 215 54 173 49 135 49 101 54 082 55	215	11500	54	
Ocean Weather Station 'I' 59°00'N 19°00'W	61 873++	986 986 646	960 13 12 893 10 08 840 10 08 777 06 14 761 06 08 744 06 12 694 ++ 30 680 03 23 665 ++ 18 625 02 37 469 16 47 433 21 42 422 20 35 402 ++ 31 379 24 31 352 ++ 33 287 40 46 250 48 205 60 195 55 176 51 128 52 100 49 072 49	205	11700	60	
	58 7732+	981 981 765	967 10 08 875 05 03 862 06 03 726 ++ 05 690 04 12 658 06 12 631 08 18 577 ++ 24 548 ++ 23 512 18 471 23 33 411 31 37 349 40 46 301 49 281 48 274 42 250 42 210 40 164 43 127 43	301	08900	49	
Ocean Weather Station 'J' 52°30'N 20°00'W	02 68400	989 989 670	900 09 07 850 07 05 790 04 02 730 00 05 682 02 12 539 13 30 484 14 35 363 27 50 316 35 56 265 40 60 250 41 227 44 166 45 124 49 074 48 070 50 055 48 049 49	227	11100	44	
	72430	004 004 784	947 09 07 823 03 00 784 00 01 687 03 06 658 03 20 625 04 18 469 17 36 408 25 43 376 30 47 347 33 46 308 39 52 253 49 250 49 211 45 134 43 118 45 102 42	253	10400	49	

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															
291210	58°2'N 26°7'W	993	985	880	061	08	01	061	06	01	802	02	02	1259	02	06	1737	05	08	08	38	2777	09	36	13	29	3950	17	++	20	++	5300	25	++
Cloud :— 3/8 Cu. 2500ft to 6000ft; 2/8 Cu. 2500 to 7000ft; 8/8 As. 15000ft. to TNG.																			Isothermal Levels :—															
Inversion 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															
291320	60°8'N 20°8'W	985	778	850	061	08	02	125	06	04	741	03	03	1201	00	00	1686	03	06	05	15	2734	08	++	11	++	3920	13	18	18	25	5282	23	35
Cloud :— 3/8 St. 1200 to 1500ft; 8/8 Sc. 2700 to 4200ft; 7/8 As. 10000 to 12000ft; 2/8 Ac. 17000 to 18000ft; 3/8 Cs. 22000ft to TNG.																			Isothermal Levels :—															
Inversion 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.																			

STATION		MAX. WIND
LERWICK 03005	072mb 260 17 18000m 280 07	190 67 10500m 190 66 02020m
STORNOWAY 03026	15600m 220 33 168mb 190 54 15460m 200 58 12390/1	230 72 03500m 200 71 02900m 190 81 10750m 180 114 11120m
SHANWELL 03170	166mb 250 38 15300/1 1429mb 210 45 125mb 220 31 17820m 200 09 01110/0	
ALDERGROVE 03917	612mb 200 77 120mb 200 44 12950/1 13350/1	200 84 11130m 200 95 11130m
AUGHTON 03322	158mb 220 39 13500m 210 46	
HEMSBY 03496	552mb 070 05 052mb 290 04 04910m 210 09 13900m 260 19 04510/2 05740/0 06570/0 13310/1 367mb 240 45	
CRAWLEY 03774	15600m 260 17 03020/2 01980/2	
CAMBORNE 03808	039mb 010 07 22200m 050 07 040mb 270 10 18000m 180 12 01990/0 14850/1	200 74 09780m
VALENTIA 03953	00300m 160 35 00600m 160 44 21000m 190 10 00300m 220 28 00600m 220 33 14100m 210 48 15000m 220 40	200 66 05660m 200 110 09700m
Ocean Weather Station 'I' 59°00'N 19°00'W	183mb 190 71 078mb 230 26 11400m 170 56 15300m 190 24 02870/0 05080/0 05520/0 08500/0 09750/1 11000/1 823mb 250 12 109mb 190 42 06000m 210 24	190 117 11610m 150 130 09100m
Ocean Weather Station 'J' 52°30'N 20°00'W	539mb 190 69 258mb 190 116 574mb 230 71 158mb 220 33 142mb 250 38 428mb 270 42 094mb 280 22	190 131 08650m
LARKHILL 03743	09650/1 11850/0	

NOTES ON THE AEROLOGICAL SITUATION

The low in mid-Atlantic is slow moving and deepening slowly whilst a trough southwards to the Azores is swinging northeast round the centre. The down-wind ridge now over France and the North Sea is moving east and developing slowly. A new low centre over Newfoundland is moving east into the Atlantic.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	21
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	° Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropo- pause	Average Press.	Max. Temp.	Min. Press.	Max. Press.	Min. Temp.	Max. Temp.
Upper	mb. 102	°C -68.1	mb. ...	mb. 72	°C ...	°C -75
Lower	(195)	(-59.1)	...	...	...	...

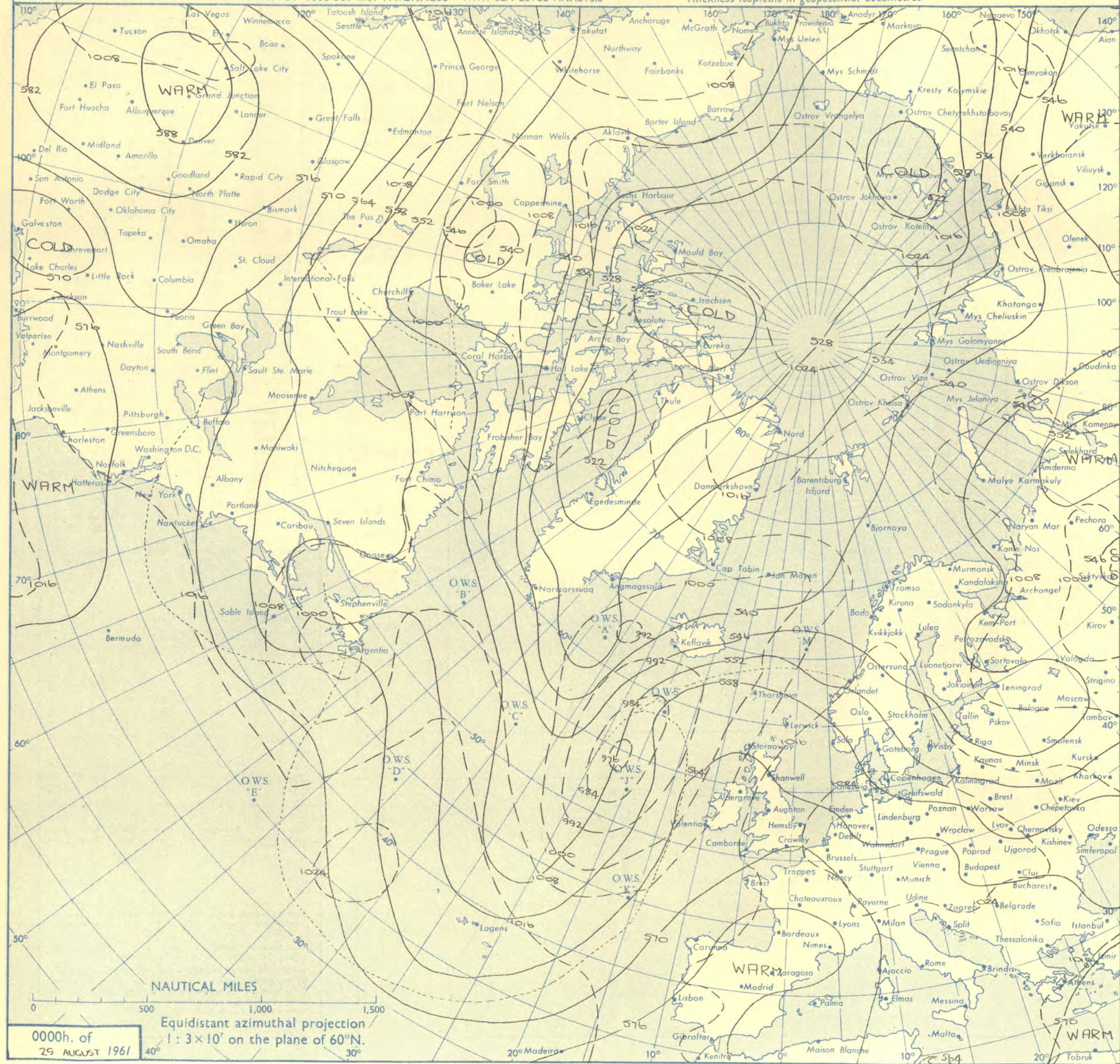
* V_R = Vector average wind. V_S = average wind speed. Average winds are based on observations at Lerwick, Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at 03, 15h.

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

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

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

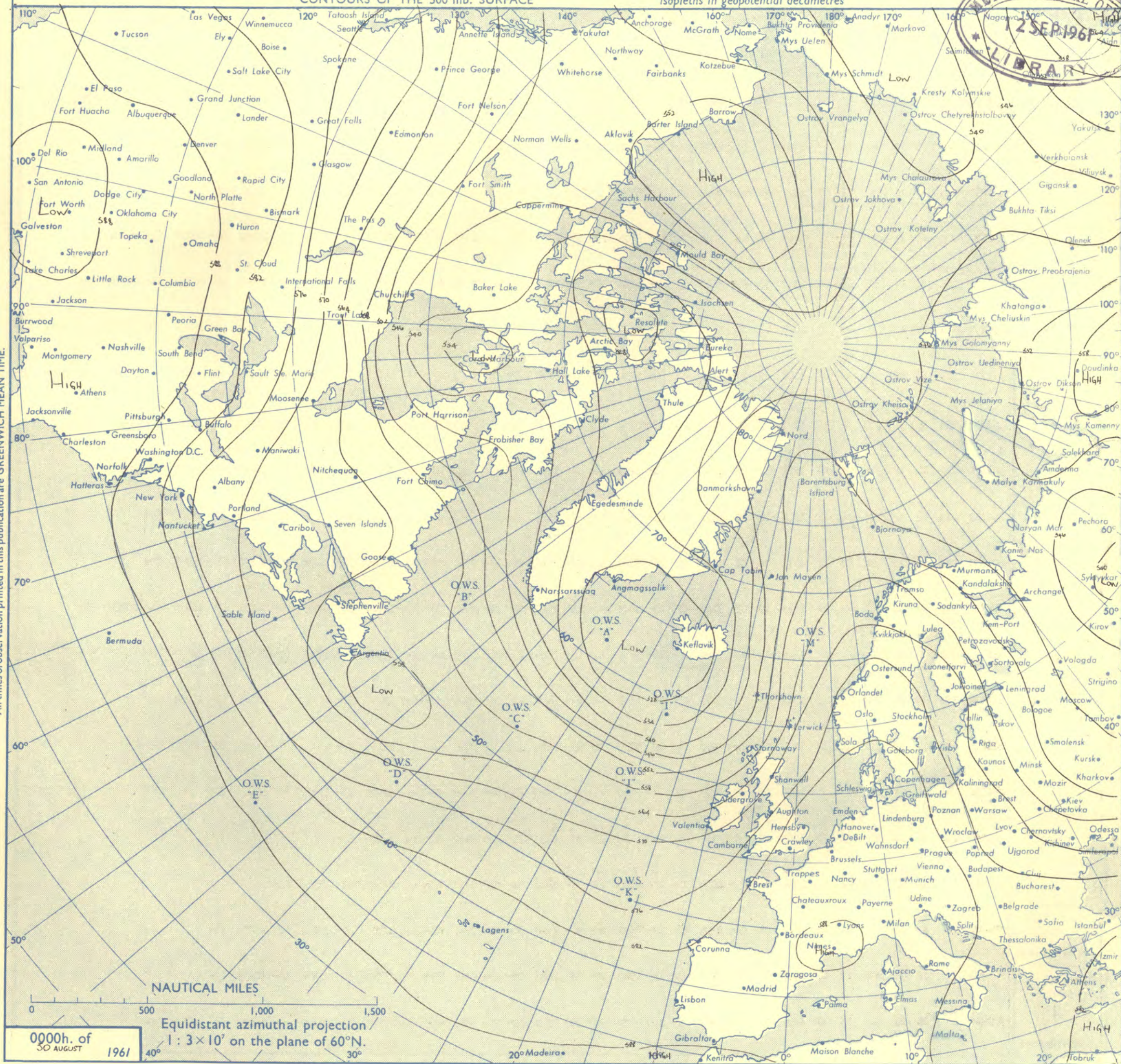
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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



NAUTICAL MILES

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

STATION	YYGGgg	SURFACE	1000mb	850mb	700mb	500mb	400mb	300mb	200mb	150mb	100mb	70mb	50mb	30mb
		gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C	gpm °C
LERWICK 03005	292330	082 13 12	052 ++ ++	1436 13 06	3043 03 01	5686 14- 17-	7351 24- 28-	9390 39- 44-	12058 56- 13933	49-				
	301130	082 14 09	139 13 08	1479 04 05-	3026 07- 14-	5604 17- 34-	7239 28- 44-	9231 46- ++	11885 46- 13789	49- 16445	51- 18762	52- 20937	53-	
STORNOWAY 03026	300115	013 12 09	053 12 09	1390 02 01	2938 04- 16-	5526 19- 33-	7143 32- 46-	9121 45- ++	11832 46- 13736	46- 16421	51- 18734	52-		
	301230	013 16 11	154 13 07	1491 03 03-	3052 00 30-	5664 17- 39-	7299 29- ++	9289 45- ++	11905 52- 13776	51- 16418	51- 18733	50-		
SHANWELL 03170	292330	005 18 15	083 18 15	1452 10 05	3054 04 00	5705 13- 39-	7370 24- 30-	9410 40- 47-	12065 58- 13897	54- 16492	56- 18773	53- 20944	52-	
	301130	005 18 07	192 16 04	1537 05 07-	3119 04 29-	5756 16- 39-	7391 30- ++	9379 45- ++	12014 52- 13887	51- 16500	55- 18793	51- 20972	53-	
ALDERGROVE 03917	292330	077 14 11	125 13 10	1467 04 02	3038 00 15-	5657 16- 34-	7296 28- 43-	9316 40- ++	11985 50- 13868	50- 16503	55- 18796	53- 20969	52- 24287	51-
	301130	077 17 09	021 13 07	1548 05 01-	3119 03 30-	5754 16- 44-	7398 27- ++	9406 42- ++	12042 55- 13895	53- 16505	53- 18800	54- 20968	52- 24300	48-
AUGHTON 03322	292330	056 16 12	133 16 10	1503 12 00	3107 03 09-	5758 12- 20-	7424 24- 31-	9465 39- 44-	12131 57- 13964	53- 16565	57- 18836	54- 21004	52-	
	301130	056 17 11	219 14 08	1568 11 03-	3163 03 11-	5799 15- 31-	7444 27- ++	9462 41- ++	12115 57- 13947	55- 16523	56- 18787	55- 20936	55-	
HEMSBY 03496	292359	012 19 17	129 24 18	1544 18 10	3176 07 03-	5844 11- 27-	7519 23- 39-	9559 40- ++	12211 58- 14035	58- 16573	59- 18830	54-		
	301130	012 20 12	192 19 11	1575 16 04	3195 05 11-	5847 12- 26-	7513 24- 38-	9550 39- ++	12208 58- 14018	59- 16554	60- 18791	59-		
CRAWLEY 03774	292330	144 20 16	123 ++ ++	1543 19 07	3180 07 03-	5843 12- 25-	7510 24- 37-	9550 39- 50-	12216 58- 14035	58- 16571	59- 18814	56- 20958	54-	
	301143	144 22 12	203 21 10	1584 15 24-	3198 06 16-	5859 12- 24-	7529 23- 38-	9565 40- ++	12227 58- 14044	57- 16589	59- 18834	57- 20973	54-	
CAMBORNE 03808	292330	088 15 14	160 15 13	1523 11 07-	3123 05 28-	5781 12- 44-	7456 23- 31-	9501 39- 44-	12170 57- 13992	55- 16569	57- 18831	54-		
	301130	088 17 14	222 14 12	1573 10 04-	3170 04 19-	5813 14- 25-	7470 25- 31-	9496 41- ++	12158 58- 13969	57- 16521	58- 18774	58-		
VALENTIA 03953	292330	014 13 11	149 13 11	1495 03 02	3073 02 06-	5710 14- 30-	7370 25- 41-	9410 39- ++	12090 52- 13970	50- 16630	49-			
	301130	014 17 10	216 13 07	1563 10 03	3150 02 15-	5780 15- 31-	7430 28- 43-	9430 42- ++	12070 57-					
Ocean Weather Station 'I' 59°00'N 19°00'W	300001	11 07	043- ++ ++	1283 00 05-	2803 11- 17-	5310 27- 37-	6880 39- 47-	8810 43- ++	11580 41- 13530	43-				
	301200	12 09	021 11 08	1353 01 02-	2894 08- 12-	5470 20- 28-	7090 32- 40-	9060 46- ++	11700 49- 13600	47- 16280	48-			
Ocean Weather Station 'J' 52°30'N 20°00'W	300001	13 11	092 12 08	1428 03 01	2981 03- 13-	5580 18- 31-	7200 33- 43-	9160 47- ++	11780 50- 13670	49- 16330	49-			
	301200	15 11	147 13 08	1492 07 05-	3068 01- 12-	5670 18- 26-	7320 18- 26-	9360 40- 44-	12000 61- 13820	54- 16420	54- 18710	55-		

PRESSURES AND TEMPERATURES OF SIGNIFICANT LEVELS



STATION	ww N _h C _L hC _M C _H	PRESSURE			TROPopause		
		MSL	Surf.	0°C level	mb	m	°C
LERWICK 03005	60 855++	006 996 669	962 13 11 942 19 15 933 ++ 14 870 14 10 850 ++ 06 839 13 07 795 09 07 779 10 05 688 01 00 376 27 31	290 40 45 250 48 235 51 202 57 191 51 133 49 106 52	202 12000 57		
	02 12505	017 007 790	002 13 08 967 09 05 850 ++ 05 833 03 05 793 ++ 08 750 ++ 09 730 ++ 12 690 08 15 675 07 17 648 256 10280 54	++ 23 620 12 27 540 13 31 356 35 50 274 51 256 54 250 53 233 52 226 47 192 44 154 49 137 48 154 13620 49			
STORNOWAY 03026	80 42500	006 005 811 752	848 ++ 02 812 00 03 778 03 04 772 01 02 762 ++ 17 738 ++ 21 708 04 13 672 04 24 479 21 35 381 296 09200 46	34 47 296 46 281 44 250 45 168 48 135 45 122 46 101 51 066 52 101 16360 51			
	01 48500	018 017 706	980 11 04 903 ++ 04 848 ++ 04 821 ++ 03 812 00 05 801 ++ 05 773 03 18 752 ++ 24 633 04 29 540 ++ 227 11100 58	34 488 18 40 446 23 46 301 45 250 54 227 58 189 50 102 50 088 53 077 50 062 50			
SHANWELL 03170	02 15671	010 009 658	909 ++ 08 891 ++ 04 857 10 06 822 ++ 01 804 09 04 790 ++ 07 709 05 00 667 ++ 02 652 ++ 05 642 ++ 04 194 12240 59	615 ++ 12 600 ++ 24 524 10 37 432 21 ++ 425 21 37 395 ++ 29 357 29 34 298 40 46 250 49 219 074 18410 56			
	02 21600	023 022 648	018 ++ 04 940 10 03 880 04 03 848 ++ 10 830 05 08 820 ++ 08 812 04 13 796 04 08 776 06 28 752 07 246 10690 54	30 629 01 30 454 22 44 411 28 50 275 50 250 53 246 54 175 50 100 55 056 51 047 54 036 51			
ALDERGROVE 03917	03 2563+	015 005 699	960 10 08 840 03 01 807 04 02 795 ++ 03 761 02 05 735 ++ 07 729 01 11 721 ++ 17 717 02 15 698 00 230 11090 52	14 599 ++ 19 586 ++ 25 560 10 24 520 ++ 32 421 26 41 360 32 48 250 50 230 52 213 52 190 49 091 17100 56			
	03 31600	025 015 658	007 14 08 945 ++ 07 907 06 04 883 ++ 00 871 06 01 850 05 01 838 06 04 826 ++ 09 807 ++ 06 749 00 09 240 10890 454	730 ++ 24 717 03 29 691 03 30 414 26 ++ 250 54 240 54 095 52 074 54 030 48			
AUGHTON 03322	02 00908	016 009 650	003 16 11 961 15 08 941 15 06 930 ++ 08 885 13 01 869 13 02 850 ++ 00 840 12 08 823 11 09 792 09 07 192 12400 58	771 ++ 00 735 07 07 702 ++ 07 685 ++ 13 644 ++ 06 616 ++ 16 582 05 23 550 08 14 540 09 21 522 104 16320 56			
	02 21501	026 019 656	11 19 511 ++ 25 500 ++ 20 470 16 23 436 ++ 32 385 25 31 292 40 45 250 48 220 54 192 58 182 203 12020 58	56 122 53 104 56 048 52 008 14 08 897 06 01 887 ++ 02 874 10 02 846 11 03 641 01 16 438 23 38 322 37 50 250 49 203 58 168 54 072 58 070 55 035 52			
HEMSBY 03496	02 00900	015 014 619	997 25 18 979 ++ 13 962 ++ 16 945 24 07 932 ++ 11 864 19 10 848 ++ 09 800 ++ 04 773 14 01 650 01 06 200 12211 58	619 00 12 561 06 17 532 08 25 479 13 29 312 37 50 250 50 200 58 171 55 143 59 081 58 070 54 143 14350 59			
	02 00901	023 021 639	958 ++ 07 928 14 09 900 14 08 887 17 07 878 17 00 865 17 02 831 ++ 05 806 ++ 07 785 12 08 719 ++ 05 192 12460 60	691 ++ 15 550 ++ 27 511 11 24 323 35 49 250 49 192 60 164 57 108 61 052 56			
CRAWLEY 03774	00 00900	015 998 636	980 25 14 954 26 12 875 ++ 11 822 ++ 03 772 15 02 632 ++ 06 626 01 08 609 01 15 541 09 20 478 14 196 12350 59	28 314 37 48 250 48 196 59 173 56 145 59 089 60 063 54 058 56 033 52			
	01 00900	024 007 631	999 20 09 931 ++ 07 916 14 04 875 16 15 850 ++ 24 835 15 16 809 ++ 10 780 ++ 03 764 ++ 00 746 07 01 193 12460 59	732 ++ 08 714 ++ 14 699 06 16 668 ++ 20 647 01 13 625 ++ 14 614 ++ 20 605 02 19 580 ++ 16 515			
CAMBORNE 03808	01 3457+	019 009 628	987 15 13 960 13 11 934 ++ 04 902 10 04 872 11 05 852 ++ 06 830 12 13 641 01 35 491 14 46 451 20 189 12510 59	46 426 19 33 374 26 31 293 40 45 250 48 189 59 178 58 162 55 105 57 081 57 053 53			
	02 52402	026 016 638	002 14 12 973 ++ 10 895 08 04 877 ++ 02 850 10 04 782 09 11 711 04 18 689 04 19 614 ++ 28 532 11 178 12890 60	23 497 ++ 25 457 ++ 25 392 25 31 306 40 45 250 48 204 57 178 60 165 57 132 57 121 60 099 58 060 56			
VALENTIA 03953	02 11500	016 018 657	016 13 11 976 12 10 893 06 02 833 02 00 789 06 07 758 04 09 743 04 07 657 00 10 619 05 16 574 06 207 11900 52	21 258 46 250 47 207 52 142 49 077 49			
	02 885++	026 024 660	002 14 08 870 04 01 852 11 05 790 06 06 715 02 11 687 02 15 386 30 45 262 49 250 51 215 59 191 215 11600 59	56 139 55			
Ocean Weather Station 'I' 59°00'N 19°00'W	01 22560	995 995 858	995 11 07 905 03 01 834 ++ 07 808 ++ 08 723 09 13 673 ++ 23 549 ++ 31 482 28 37 393 40 47 351 322 08300 48	45 322 48 296 42 250 40 239 39 108 45			
	02 13570	003 003 841 804	928 ++ 02 902 ++ 02 841 00 03 831 01 05 810 00 17 793 ++ 10 745 04 09 700 08 12 686 07 10 670 234 10700 56	06 11 647 ++ 15 575 ++ 20 550 15 24 468 ++ 31 337 40 47 273 50 250 54 234 56 220 51 158 46 144 48 100 48			
Ocean Weather Station 'J' 52°30'N 20°00'W	03 784++	011 011 809 757	011 13 11 000 ++ 08 912 06 04 800 00 03 790 01 06 767 01 11 712 04 10 701 03 12 695 ++ 16 672 247 10400 56	03 18 556 ++ 23 525 15 28 395 34 44 342 40 50 250 56 247 56 237 52 166 49 077 50			
	02 38407	018 018 708	006 14 09 920 08 05 862 ++ 04 782 05 10 628 06 15 569 11 20 512 18 26 440 20 26 388 24 29 299 195 12200 62	40 44 250 50 195 62 182 57 112 53 064 55			

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	300015	P	190 20	+++ ++	210 42	200 49	200 58	190 67	200 74	190 77	190 77	190 84	190 83	190 77							
	300530	P	240 24	+++ ++	240 42	230 38	210 42	210 55	200 66	200 71	200 87	190110	190122	200 87	180 60						
	301130	P	240 27	+++ ++	250 37	240 28	240 32	230 53	240 62												
	301730	P	220 17	+++ ++	240 33	240 32	240 35	250 44	240 47	240 49	240 60	240 64	250 62	250 52	230 50	230 33	240 19	200 10			
STORNOWAY 03026	300115	T	250 25	+++ ++	240 38	230 45	230 44	220 53	210 59	200 72	200 80	190 85	190 91	190 80	200 65	200 36					
	300530	P	220 23	+++ ++	230 37	240 39	250 45	240 47	240 59	240 81	230106	240 96	230 92	210 70	220 52	210 27					
	301130	P	230 20	+++ ++	240 35	240 37	240 43	250 51	260 60	260 64	260 69	240 67	250 64	240 62	230 60	230 32					
	301730	P	220 18	+++ ++	230 32	230 34	230 34	230 40	230 50	230 61	240 59	240 57	230 60	240 61	250 50	240 31	230 19				
SHANWELL 03170	292330	T	240 15	+++ ++	240 38	220 42	210 49	200 61	190 65	190 68	200 75	200 73	200 78	200 76	200 58	220 30					
	300530	P	240 11	+++ ++	270 26	250 42	250 42	240 44	240 45	230 44	220 64	210 95	220111	210 86	220 56	210 44					
	301130	T	240 10	+++ ++	250 14	260 22	260 30	240 31	240 38	230 44	240 45	240 43	230 55	220 71	230 51	230 28	230 09	140 06			
	301730	P	250 12	+++ ++	250 15	260 17	240 25	240 25	250 23	240 33	230 34	250 34	260 36	250 42	240 40	230 31	250 15	170 10			
ALDERGROVE 03917	292330	T	230 13	No further winds reported																	
	300530			No winds reported																	
	301130	T	260 10	+++ ++	270 13	240 17	240 22	250 27	250 36	250 27	260 27	240 28	250 36	230 49	220 42	230 42	200 15	240 10			
	301730	P	220 07	+++ ++	220 12	250 14	250 20	240 25	220 24	220 27	230 34	260 31	270 31	250 36	230 38	230 24					
AUGHTON 03322	292330	T	210 08	+++ ++	270 21	230 25	210 27	210 45	210 56	210 57	210 56	210 61	210 63	210 69	200 46						
	300530	P	270 04	+++ ++	300 19	270 27	250 27	230 28	230 34	220 39	220 50	220 66	220 70	220 77	220 60	220 29	190 13				
	301130	T	260 08	+++ ++	300 09	290 11	260 12	230 15	250 19	240 22	230 42	220 70	220 79	220 78	220 44	220 24	220 11	090 03			
	301730	P	310 09	+++ ++	310 07	240 02	210 05	240 13	230 16	230 19	230 32	230 55	230 69	230 61	230 43	240 24	210 11				
HEMSBY 03496	292359	T	160 12	+++ ++	190 24	210 20	240 15	250 16	230 18	210 30	210 38	220 48	230 49	220 45	230 31	220 15					
	300530	P	340 10	+++ ++	230 06	210 15	210 20	230 26	230 27	220 31	210 40	220 50	220 47	220 48	230 41	230 13	200 11				
	301130	T	360 20	+++ ++	340 16	250 12	230 18	220 28	220 24	230 28	230 35	220 47	230 48	230 45	230 41	230 18	190 08				
	301730	P	350 14	+++ ++	350 15	320 08	250 12	240 20	230 22	230 26	230 32	230 38	230 47	240 52	230 37	230 18	240 08	110 05			
CRAWLEY 03774	292330	T	210 02	+++ ++	190 21	210 16	220 18	220 25	220 24	210 35	210 39	210 54	220 46	210 47	210 34	200 19	150 09	100 07			
	300530	P	350 08	+++ ++	310 15	250 17	240 24	220 29	210 33	220 25	220 35	210 43	220 46	210 46	220 41	210 18	200 10	150 04			
	301113	P	340 08	+++ ++	340 06	290 08	240 17	230 25	230 21	230 24	220 34	220 40	210 49	210 47	230 39	210 17	260 05	100 09			
	301730	P	070 02	+++ ++	030 07	030 06	210 13	240 28	230 21	230 21	220 28	220 36	220 49	220 45	220 35	230 31	170 05	120 07			
CAMBORNE 03808	292330	T	290 09	+++ ++	290 21	260 17	250 17	230 25	210 39	210 42	210 58	210 54	210 60	210 61	200 52	200 27	200 11				
	300530	P	300 03	+++ ++	330 12	320 11	250 10	230 20	230 31	220 34	220 42	210 55	200 61	210 67	220 45	210 26	200 12	160 08			
	301130	T	320 10	+++ ++	350 07	270 04	220 03	220 10	220 22	230 20	212 35	210 49	210 58	210 59	220 38	210 19	230 06				
	301730	P	360 09	+++ ++	030 05	100 04	160 03	230 13	210 21	210 28	230 29	220 37	210 45	220 52	210 33	220 19	190 08	160 08			
VALENTIA 03953	292330	T	230 08	240 10	260 18	260 23	260 24	260 31	250 32	250 29	250 30	230 50	220 53	220 70	210 61	220 33					
	301130	T	220 06	220 07	230 09	230 13	230 17	230 14	220 14	230 23	240 20	300 17	330 28	240 26	240 28						
Ocean Weather Station 'I' 59°00'N 19°00'W	300001	T	230 32	+++ ++	250 33	250 34	240 33	250 31	240 33	250 28	250 26	230 34	240 37	230 34	210 34						
	300600	P	225 30	+++ ++	240 36	240 33	240 30	240 33	240 42	260 60	270 93	280111	270 69	250 42	230 43	220 32	210 21				
	301200	T	210 27	+++ ++	230 38	240 39	230 42	250 60	240 67	240 76	250 75	250 85	240 98	240 68	240 45	240 22	240 20	240 18			
	301800	P	225 40	+++ ++	230 52	240 56	240 57	240 57	240 66	240 70	250 79	250 93	240 92	240 63	240 58						
Ocean Weather Station 'J' 52°30'N 20°00'W	300001	T	250 30	+++ ++	250 33	240 35	240 40	250 45	250 50	270 59	270 60	270 66	290 72	260 42	260 37	220 21					
	300600	P	270 20	+++ ++	240 36	250 38	260 40	270 41	250 43	230 45	250 45	250 58	290 76	280 51	260 37	230 26	220 16	170 14	130 06	070 09	
	301200	T	210 22	+++ ++	220 38	230 30	230 29	220 36	230 38	230 57	230 57	250 49	240 58	240 57	250 40	280 36					
	301800	P	180 20	+++ ++	210 42	220 34	220 32	210 35	220 31	230 29	240 63	240 50	260 69	280 80	250 46						
LARKHILL 03743	300630	P	300 11	+++ ++	350 17	280 10	230 25	220 29	230 28	220 33	220 40	210 39	220 41	220 40	220 48	220 26	170 09	190 05			
	301130	P	360 06	+++ ++	350 08	300 07	270 10	230 16	220 40	220 27	220 34	220 41	230 40	210 42	220 42	210 23	210 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	°C °C	°C °C	°C °C	°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	°C °C	°C °C	°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	12600m 190 70 10550/1 520mb 250 90 22500m 290 06	190 87 11170m 200 135 10320m 250 99 05330m 250 66 10570m
STORNOWAY 03026	072mb 170 10 16400m 200 23 05380/0 06480/0 10490/1 13200/1 17200m 220 30	180 96 10160m 230 110 06690m 250 71 07760m 230 70 06220m
SHANWELL 03170	17800m 240 18 06810/0 08620/0 11470/1 12950/1 13480/1 039mb 090 05 22880m 250 05	200 85 11570m 210 114 10750m 210 72 12100m
ALDERGROVE 03917	093mb 230 24 032 100 06 17400m 230 24 08200/2	
AUGHTON 03322	125mb 190 36 10160/0 12960/1 344mb 220 57 037mb 130 11 20400m 240 05	210 71 11950m 210 79 12740m 220 85 11780m 230 74 11060m
HEMSBY 03496	072mb 130 12 14770m 230 27 19320m 150 06 057mb 160 08 22600m 090 03 01850/5	
CRAWLEY 03774	039mb 040 08 02150/0 02080/2	
CAMBORNE 03808	060mb 240 08 01350/5 01760/5 13800/1 16750/1 23100m 150 04 14820/1	210 63 10410m 200 70 12050m
VALENTIA 03953		220 73 12140m
Ocean Weather Station 'I' 59°00'N 19°00'W	118mb 210 33 06300m 270 81 09600m 270 83 19200m 210 17 05350/0 06300/0 07750/0 09200/1 10350/1 222mb 240 80 169mb 240 60 11400m 240 76 15600m 240 36 10600/1 14220/1	280 120 08000m 240 102 10400m 250 103 10320m
Ocean Weather Station 'J' 52°30'N 20°00'W	220mb 260 54 088mb 210 25 9900m 270 40 19500m 190 11 10250/0 11680/1 085mb 250 34 072mb 230 15 12900m 270 55 15300m 240 44 06820/0 07700/1 09000/1 11200/0 12850/1 13250/7	290 92 10260m 300 87 11150m 240 66 12170m 270 94 11940m
LARKHILL 03743	01360/5 15800/7 01720/5	

NOTES ON THE AEROLOGICAL SITUATION

The low east of Newfoundland is continuing its eastward track with little change in intensity. The vortex off southwest Iceland is slowing moving but the trough now just west of the British Isles has moved northeast and is now relaxing. The ridge over western Europe and Scandinavia has moved east with high centres over southern France and the Low Countries.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	102	-68.1	...	72	...	-75
Lower	(195)	(-59.1)	...	...	...	...

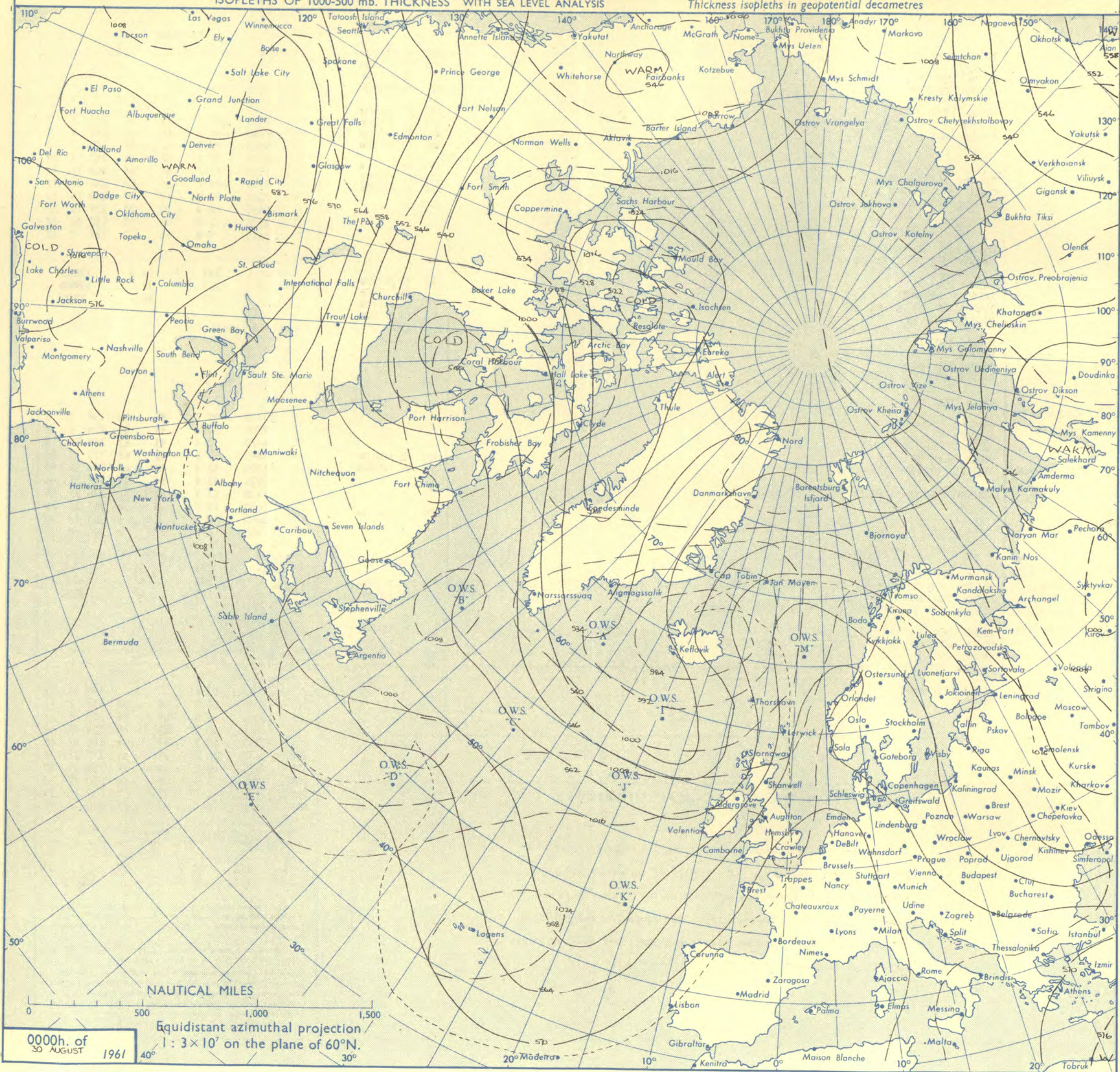
* V_R = Vector average wind. V_S = average wind speed.
Average winds are based on observations at Lerwick,
Larkhill and Crawley at 03, 09, 15, 21h. and at Malta at
03, 15h.

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

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

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

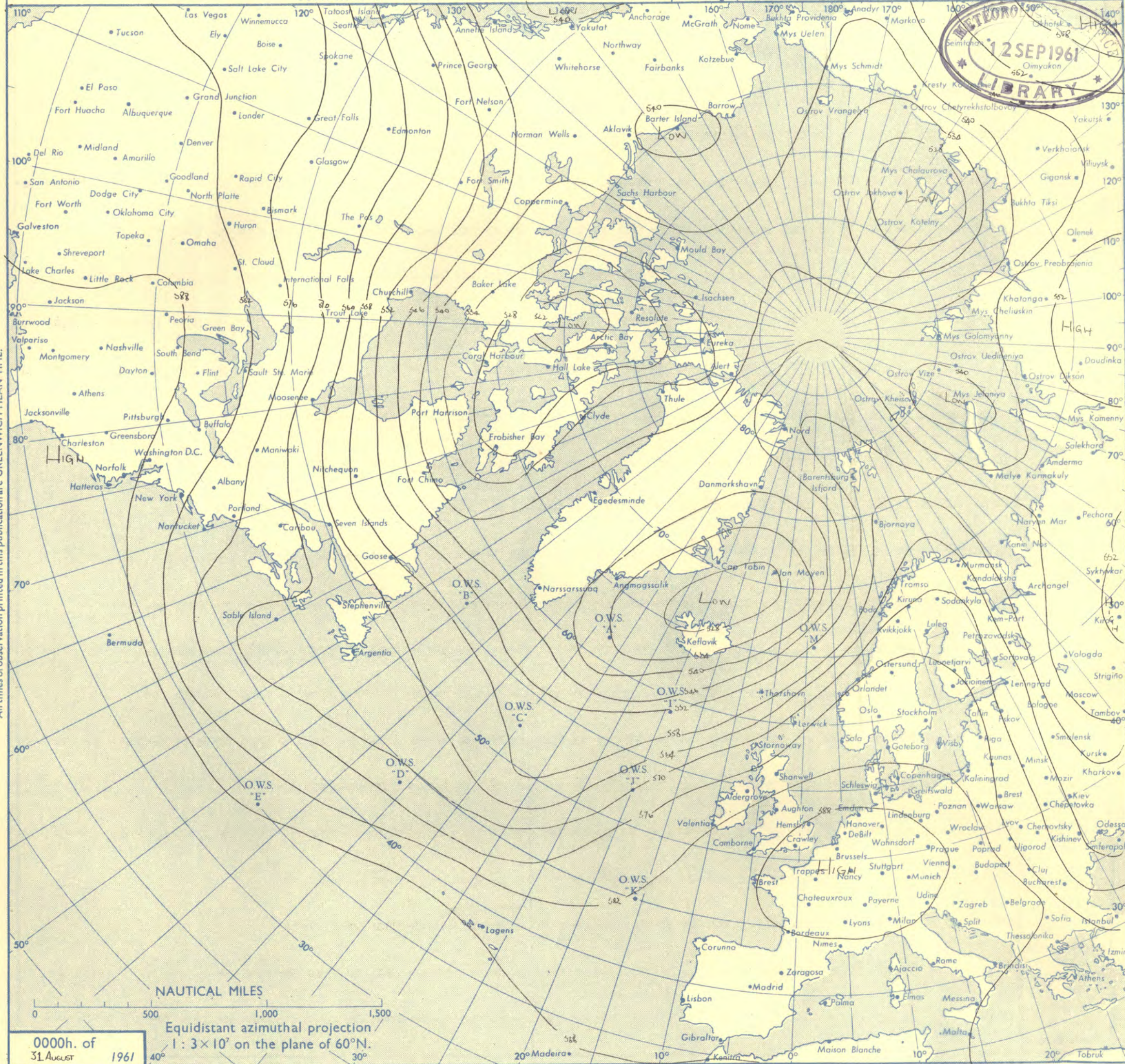
Thickness isopleths in geopotential decametres



CONTOURS OF THE 500 mb. SURFACE

Isopleths in geopotential decametres

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

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

STATION	YYGGgg	SURFACE		1000mb		850mb		700mb		500mb		400mb		300mb		200mb		150mb		100mb		70mb		50mb		30mb			
		gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C °C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C	gpm	°C		
LERWICK 03005	302330	082	12 09	194	12 07	1536	03 02	3100	00 28	5705	19- 24-	7339	27- 32-	9347	43- ++	11974	53-	13840	51-	16469	50-	18795	50-						
	311130	082	16 09	197	14 05	1540	07 04-	3118	00 13-	5744	14- 19-	7402	25- 30-	9422	41- ++	12058	61-	13884	56-										
STORNOWAY 03026	302342	013	13 11	194	12 10	1531	06 04-	3101	01- 21-	5705	15- 19-	7350	29- 35-	9356	43- ++	11965	56-	13810	53-	16415	53-								
	311130	013	15 10	189	13 05	1525	02 02	3113	03 06-	5745	13- 13-	7405	25- 25-	9435	40- 40-	12085	59-	13899	54-	16505	51-	18842	50-	21038	49-	24404	47-		
SHANWELL 03170	310030	005	10 08	232	14 08	1585	09 04-	3174	05 32-	5818	14- 43-	7473	25- 37-	9494	42- ++	12109	59-	13936	55-	16520	55-	18807	53-						
	311130	005	19 08	224	16 08	1583	10, 06-	3175	04 16-	5830	12- 38-	7501	23- 31-	9546	39- 48-	12196	61-	14001	57-	16564	56-	18837	55-	21001	52-				
ALDERGROVE 03917	302330	077	12 09	229	13 08	1573	09 06-	3156	03 18-	5794	14- 40-	7452	25- 34-	9481	41- ++	12119	60-	13932	56-	16505	56-	18779	55-	20938	53-	24240	51-		
	311130	077	19 10	210	16 08	1570	13 09-	3172	04 32-	5825	12- 44-	7500	22- 14-	9550	38- ++	12210	60-	14016	57-	16562	56-	18854	55-	21002	55-	24275	54-		
AUGHTON 03322	302330	056	11 07	241	14 09	1604	12 02-	3206	05 14-	5857	13- 39-	7517	25- 47-	9541	40- ++	12196	56-	14031	55-	16614	55-	18896	53-						
	311130	056	20 12	227	17 10	1593	12 10-	3195	05 23-	5849	13- 30-	7505	27- 41-	9517	42- ++	12153	57-	13967	58-	16510	58-	18760	56-						
HEMSBY 03496	302330	012	13 12	226	13 11	1599	15 20-	3216	07 30-	5889	12- 24-	7558	23- 36-	9602	38- ++	12277	57-	14095	57-	16648	58-								
	311130	012	18 14	231	13 11	1603	14 09-	3212	05 13-	5877	11- 26-	7540	25- 39-	9572	40- ++	12224	59-	14028	59-										
CRAWLEY 03774	302330	144	14 13	232	15 12	1612	15 02	3231	05 01-	5895	12- 25-	7558	24- 39-	9589	40- 50-	12247	58-	14060	57-	16609	58-	18863	56-						
	311130	144	21 10	228	19 09	1613	16 01	3236	04 06-	5899	12- 26-	7568	24- 38-	9608	39- ++	12264	58-	14068	58-	16603	60-	18841	56-						
CAMBORNE 03808	302330	088	12 12	226	14 11	1593	13 10-	3201	05 17-	5851	12- 27-	7516	25- 35-	9546	39- 49-	12196	59-	14008	56-	16555	59-	18807	57-						
	311130	088	21 14	204	19 12	1588	17 03-	3209	06 05-	5856	13- 30-	7521	24- 39-	9556	40- ++	12195	58-	14002	59-	16553	59-	18783	59-	21910	54-	24205	53-		
VALENTIA 03953	310000	014	10 07	226	12 08	1570	09 06-	3161	02 13-	5810	13- 31-	7480	24- 42-	9520	39- 43-	12170	61-	13970	58-										
	311200		18 14	203	15 11	1560	14 01	3173	04 03-	5830	13- 26-	7490	24- 38-	9530	40- ++	12170	60-	13990	56-	16560	57-	18840	53-	21010	52-	24340	48-		
Ocean Weather Station 'I' 59°00'N 19°00'W	310001		12 12	022	12 12	1370	06 04	2936	02- 04-	5540	17- 20-	7180	29- 34-	9180	43- ++	11850	48-	13740	49-										
	311200		13 13	007-	++ ++	1342	07 07	2926	02 00	5560	14- 26-	7220	25- 39-	9250	40- 48-	11920	49-	13600	51-										
Ocean Weather Station 'J' 52°30'N 20°00'W	310000		16 14	100	15 13	1461	09 04	3043	02 07-	5700	10- 12-	7380	21- 24-	9440	380 42-	12100	59-	13910	56-	16500	54-								
	311200		16 15	039	15 14	1411	11 09	3010	03 03-	5660	12- 29-	7340	22- 39-	9390	37- 46-	12080	49-	13970	50-	16610	50-	18950	47-						

STATION	ww N _h C _L hC _M C _H	PRESSURE				TROPOPAUSE			
		MSL	Surf.	0°C level		mb	m	°C	
LERWICK 03005	02 15632	023 014 698	979 12 06 814 01 03- 810 ++ 03- 780 ++ 18- 772 04 17- 715 ++ 27- 674 01- 29- 659 ++ 16- 633 ++ 17- 614 ++ 225 11220 50- 19- 504 18- 23- 392 28- 33- 318 40- 45- 250 52- 225 58- 184 51- 109 53- 100 50- 062 51-						
	02 18531	023 014 707	002 14 05 921 07 03 910 ++ 04 877 06 00 863 ++ 00 837 08 10- 737 ++ 20- 707 ++ 13- 591 ++ 24- 558 ++ 22- 537 11- 17- 518 12- 17- 307 40- 45- 250 51- 234 55- 198 61- 165 56- 130 55-				198 12120 61-		
STORNOWAY 03026	02 15640	023 022 713	864 02 01 851 06 04- 837 ++ 02- 813 ++ 05- 792 05 12- 765 ++ 21- 693 ++ 22- 670 ++ 19- 648 06- 22- 628 07- 17- 600 ++ 19- 531 14- 17- 516 13- 17- 415 26- 31- 381 29- 37- 316 40- 46- 250 54- 222 61- 196 55- 116 55- 093 51- 077 52-				222 11310 61-		
	02 3567+	023 021 669	021 15 10 012 14 05 929 07 04 848 02 02 831 ++ 03- 817 08 04 810 ++ 06 770 ++ 02 758 06 00 666 ++ 09- 577 08- 15- 553 ++ 16- 524 ++ 15- 509 11- 11- 415 23- 23- 363 29- 29- 299 40- 40- 250 49- 210 56- 185 61- 166 55- 120 55- 083 49- 061 52- 030 47- Humidities suspect.				185 12560 61-		
SHANWELL 03170	02 15676	028 027 648	010 14 09 005 ++ 08 887 07 04 869 ++ 06- 863 09 05- 769 05 09- 770 ++ 20- 719 06 32- 453 20- 50- 442 20- 50- 417 ++ 46- 399 ++ 36- 352 ++ 38- 309 40- 46- 250 53- 237 56- 217 60- 149 54- 128 56- 100 55- 063 52-				217 11600 60-		
	02 11502	026 026 639	018 17 08 943 ++ 07 922 09 03 897 12 01- 848 ++ 06- 750 05 10- 680 03 20- 470 15- 41- 432 ++ 30- 403 ++ 31- 322 34- 43- 294 40- 48- 250 49- 195 63- 184 63- 177 58- 100 56- 050 52- 046 54- 036 32- 033 55-				195 12360 63-		
ALDERGROVE 03917	01 35600	028 018 664	988 14 08 880 05 01 870 ++ 03- 860 09 03- 842 ++ 08- 835 09 07- 719 02 15- 702 03 19- 496 14- 41- 452 20- 46- 444 19- 45- 376 ++ 33- 328 ++ 39- 302 40- 44- 250 50- 206 60- 190 61- 180 57- 079 54- 030 51-				206 11960 60-		
	01 11601	025 016 639	996 16 08 925 915 09 04 887 13 04- 839 13 15- 757 07 23- 680 03- 33- 424 ++ 50- 395 23- 42- 287 40- 250 49- 223 55- 188 61- 159 56- 154 57- 030 54-				188 12600 61-		
AUGHTON 03322	02 00900	029 022 640	004 14 09 962 12 06 894 13 00 888 ++ 01- 802 08 05- 744 08 08- 642 ++ 27- 390 26- 49- 250 50- 211 57- 198 55- 186 58- 169 54- 083 56- 057 53-				211 11880 57-		
	02 00900	027 020 638	006 18 11 974 ++ 12 896 10 03 871 13 04- 863 ++ 08- 823 11 19- 741 06 21- 728 07 21- 548 08- 33- 524 ++ 34- 487 15- 29- 473 ++ 33- 343 35- 50- 250 51- 219 57- 127 60- 070 56-				219 11570 57-		
HEMSBY 03496	02 16400	027 026 609	993 13 10 970 ++ 03 920 15 00 901 17 05- 840 ++ 25- 749 11 27- 630 02 34- 618 ++ 30- 602 ++ 19- 572 ++ 17- 528 ++ 23- 474 15- 26- 439 19- 27- 420 ++ 32- 307 37- 49- 250 47- 201 57- 180 59- 171 57- 075 57-				180 12950 59-		
	02 00900	028 026 628	011 13 11 998 ++ 11 958 15 02 825 ++ 09- 818 13 07- 781 ++ 03- 760 ++ 11- 509 10- 25- 464 17- 30- 316 37- 50- 250 49- 200 59- 184 60- 126 59-				184 12720 60-		
CRAWLEY 03774	02 00900	028 010 625	996 16 12 987 ++ 10 918 ++ 11 891 13 08 871 16 02- 860 ++ 07- 845 ++ 05 830 ++ 05 767 11 06- 737 ++ 07- 709 ++ 02- 688 ++ 04- 667 ++ 04- 657 01 07- 633 01 15- 575 ++ 23- 548 ++ 21- 517 10- 24- 474 16- 28- 316 ++ 50- 250 49- 202 59- 082 58- 060 53-				202 12200 58-		
	02 00900	027 010 638	970 ++ 08 954 15 05 925 17 00 900 ++ 01- 875 ++ 06 865 17 02 815 ++ 03 768 11 01- 705 05 04- 642 ++ 16- 628 01- 14- 587 03- 16- 334 33- 46- 250 49- 190 60- 083 60- 067 55-				190 12580 60-		
CAMBORNE 03808	02 00901	027 017 646	009 14 12 975 15 02 960 ++ 08 930 ++ 09 923 11 05 888 14 15- 842 12 10- 809 12 21- 717 07 23- 703 ++ 17- 585 05- 29- 472 15- 27- 370 29- 39- 295 40- 50- 250 49- 205 59- 186 60- 153 56- 110 61- 095 58- 069 57-				205 12030 59-		
	02 00900	024 014 642	993 18 11 973 ++ 11 962 ++ 08 941 16 10 923 19 06- 863 17 03- 783 13 02- 730 ++ 06- 661 ++ 05- 619 ++ 10- 570 07- 12- 532 09- 22- 465 15- 29- 325 35- 49- 250 50- 205 58- 086 60- 051 54- 030 53-				205 12020 58-		
VALENTIA 03953	02 15600	027 026 655	996 12 09 889 06 00 855 09 06- 810 09 06- 718 03 11- 650 00 18- 478 15- 33- 435 19- 39- 372 28- 44- 318 36- 49- 250 49- 219 57- 191 63- 184 59- 123 58-				191 12400 63-		
	03 32500	024 022 645	998 14 10 907 07 05 840 15 02 733 06 03- 462 16- 36- 360 29- 42- 305 40- 250 50- 201 60- 165 56- 102 57-				201 12200 60-		
Ocean Weather Station 'I' 59°00'N 19°00'W	63 5732+	003 003 742	975 11 09 919 09 07 798 03 02 768 15 10 711 01- 03- 672 04- 06- 615 08- 11- 552 12- 15- 458 21- 25- 365 35- 39- 352 35- 40- 322 40- 45- 253 50- 250 51- 237 52- 227 49- 175 48- 137 49-				237 10700 52-		
	61 7732+	998 998 673	964 12 10 797 05 03 702 02 00 618 ++ 06- 582 ++ 11- 532 11- 21- 503 ++ 24- 493 14- 27- 482 5 31- 460 18- 235 10900 29- 414 ++ 38- 301 40- 48- 250 50- 235 53- 197 49- 138 51- 124 48- 109 48-				53-		
Ocean Weather Station 'J' 52°30'N 20°00'W	03 857++	012 012 682	950 14 12 926 13 08 904 11 06 886 ++ 04 873 10 04 820 ++ 05 769 03 00 747 05 06- 716 04 08- 627 05- 10- 623 02 05- 576 05 06- 476 12- 14- 288 40- 44- 225 54- 201 59- 137 54- 114 57-				201 12100 59-		
	61 672++	005 005 650	801 09 07 757 ++ 03 727 ++ 02 710 ++ 03- 672 ++ 08- 577 ++ 15- 528 09- 25- 456 15- 34- 287 39- 50- 250 46- 225 52- 213 53- 197 48- 180 50- 097 50- 055 46-				225 11300 52-		

0mb	30mb	20mb	40mb
700m	23700m	26400m	30900m

12 SEP 1961

LIBRARY

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	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C
311326	53.5°N 25.3°W	005 998 709	061 09 09	043	08 08	914 10 10	1387 08 06	1887 06 03	03 01	2966 01- ++	05- 09	4176 08- 12	12- 18	5569 17- 26
Cloud :— 8/8 St. 700 to 2300 ft. 4/8 Sc. at 6000 ft. 6/8 Ac. 9000 to 11000 ft. 2/8 Ag. at 14000 ft. 1/8 Cb. H.N.G. to 16000 ft. 2/8 Ci. at 23000 ft.														
Inversion 950mb. to 900 mb. 8½°C to 10¼°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	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C	°C °C
311500	57.3°N 23.3°W	005 998 715	061 11 03	043	06 01	908 06 19	1375 05 28	1879 05 36	03 50	2945 01- 43	05- 49	4155 07- 45	11- 45	5554 16- 51
Cloud :— 4/8 Sc. 2000 to 2700 ft. 1/8 Ac. at 18000 ft. 2/8 Cs. 22000 to 24000 ft.														
Inversion 950 mb. to 900 mb. 6°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	066mb 300 06 14200m 250 46 140mb 240 35	240 74 10500m 260 67 09160m 260 66 12980m 240 61 12080m
STORNOWAY 03026	082mb 210 13 20000m 240 06 04850/1 11910/1 14920/1 18960/1 031mb 260 03 21700m 240 06 12610/1	250 64 09910m 280 65 11680m 250 62 12760m
SHANWELL 03170	22400m 120 04 037mb 060 09 19280m 250 05 08750/1 12980/0	
ALDERGROVE 03917	090mb 240 20 033mb 100 08 12900m 260 29 18550m 190 10 01310/0 10730/2 12350/0 18000/1 365mb 210 16 031mb 080 10 17600m 220 15 07750/5 12220/2	
AUGHTON 03322	060mb 170 06 01920/2 08510/1 09920/1 11400/0 075mb 210 05 17100m 220 12	
HEMSBY 03496	082mb 230 09 17460m 280 09 19800m 110 13 22730m 190 05 14640/1	
CRAWLEY 03774	19500m 110 06 15320/1 19900m 220 01 072mb 150 06 20400m 230 001 03720/2	
CAMBORNE 03808	079mb 140 06 24900m 060 11 01650/2 032mb 060 12	
VALENTIA 03953	07500/3 03900/2 02990/7	
Ocean Weather Station 'I' 59°00'N 19°00'W	232mb 240 93 13800m 230 51 13100/1 335mb 220 82 212 mb 220 99 P20100m 230 14 20400m 250 15 09300/0	230 117 09800m 220 117 10820m 220 114 09950m 210 96 10370m
Ocean Weather Station 'J' 52°30'N 20°00'W	134mb 260 39 16500m 250 33 08330/0 11420/1 129mb 220 36 063mb 210 22 11100m 190 44 24600m 120 16 08990/0 10910/1 21410/6 21960/0	230 66 12090m 200 68 10340m 190 90 11390m 180 72 10300m
LARKHILL 03743		

NOTES ON THE AEROLOGICAL SITUATION

The low near Iceland has moved northeast and the trough on its southeast side has relaxed substantially. The high over France has amplified slightly and a strong ridge extends northeastwards over the Baltic. Weak troughs over the central Atlantic and to south of Newfoundland have both moved east, whilst the vortex over northern Canada has deepened.

AVERAGE AND EXTREME VALUES 1951-55
AUGUST

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	Kt.	Kt.
40	22435	-47.1	-44	-56	201 3	7
60	19760	-48.1	-41	-54	213 4	9
100	16400	-48.3	-42	-57	235 9	14
150	13730	-48.4	-42	-63	242 13	24
200	11845	-49.7	-40	-64	243 16	34
300	9190	-44.7	-34	-53	232 17	41
400	7205	-30.0	-19	-39	230 15	33
500	5580	-18.4	-10	-27	229 13	27
700	2985	-2.7	4	-10	230 10	20
850	1425	4.8	16	-2	229 7	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	243	-54.8	10645
Max.	367	-38	13990
Min.	150	-66	7590

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	Kt.	Kt.
40	22425	-49.2	-45	-56	158 2	6
60	19780	-50.8	-43	-57	224 3	9
100	16470	-52.4	-43	-62	267 13	18
150	13845	-52.3	-42	-69	273 23	31
200	11980	-52.4	-40	-63	274 29	43
300	9325	-42.4	-34	-52	271 27	45
400	7320	-27.2	-18	-37	270 23	36
500	5680	-15.7	-8	-24	267 20	30
700	3060	0.1	7	-6	262 14	22
850	1480	7.7	17	2	260 10	18

Tropopause	Press. (mb.)	Temp. (°C)	Height (gpm.)
Average	226	-55.9	11245
Max.	343	-41	14235
Min.	145	-67	8230

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

Press. Level	Average Height	Average Temp.	Extreme Temps. Max.	Extreme Temps. Min.	Wind* V _R	Wind* V _S
mb.	gpm.	°C	°C	°C	Kt.	Kt.
40	(22330)	(-55.6)	...	...	100 14	15
60	19780	-60.8	-54	-68	110 7	11
100	16655	-66.8	-58	-74	250 21	24
150	14175	-60.2	-53	-70	255 41	45
200	12345	-50.9	-44	-59	265 44	49
300	9620	-35.2	-29	-44	275 31	37
400	7555	-20.4	-16	-27	285 23	29
500	5865	-8.6	-4	-14	290 19	24
700	3170	8.9	13	1	310 15	19
850	1540	18.4	27	12	310 7	11

Tropopause	Average Press.	Average Temp.	Max. Press.	Min. Press.	Max. Temp.	Min. Temp.
Upper	102	-68.1	...	72	...	-75
Lower	(195)	(-59.1)	...	...	...	...

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

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

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

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

Thickness isopleths in geopotential decametres

