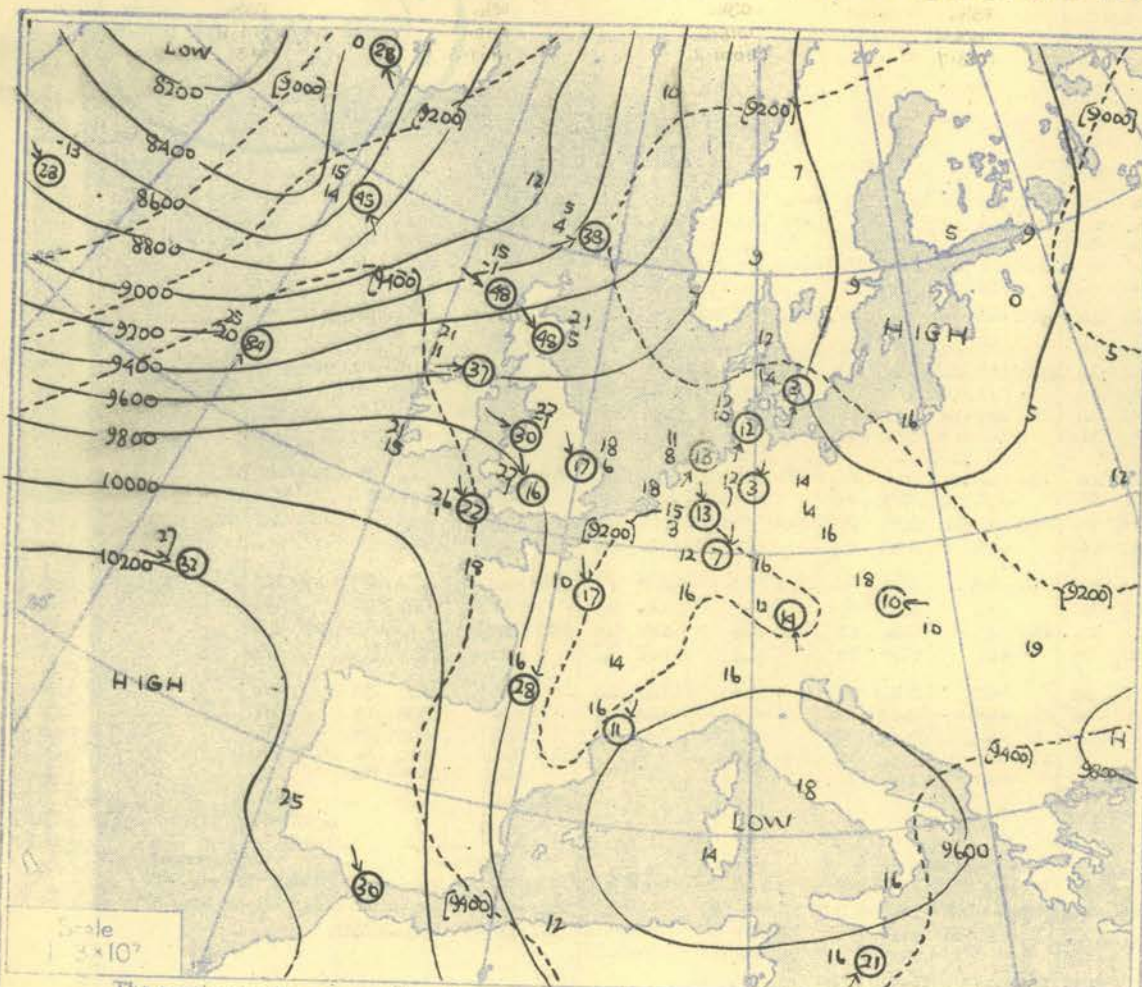


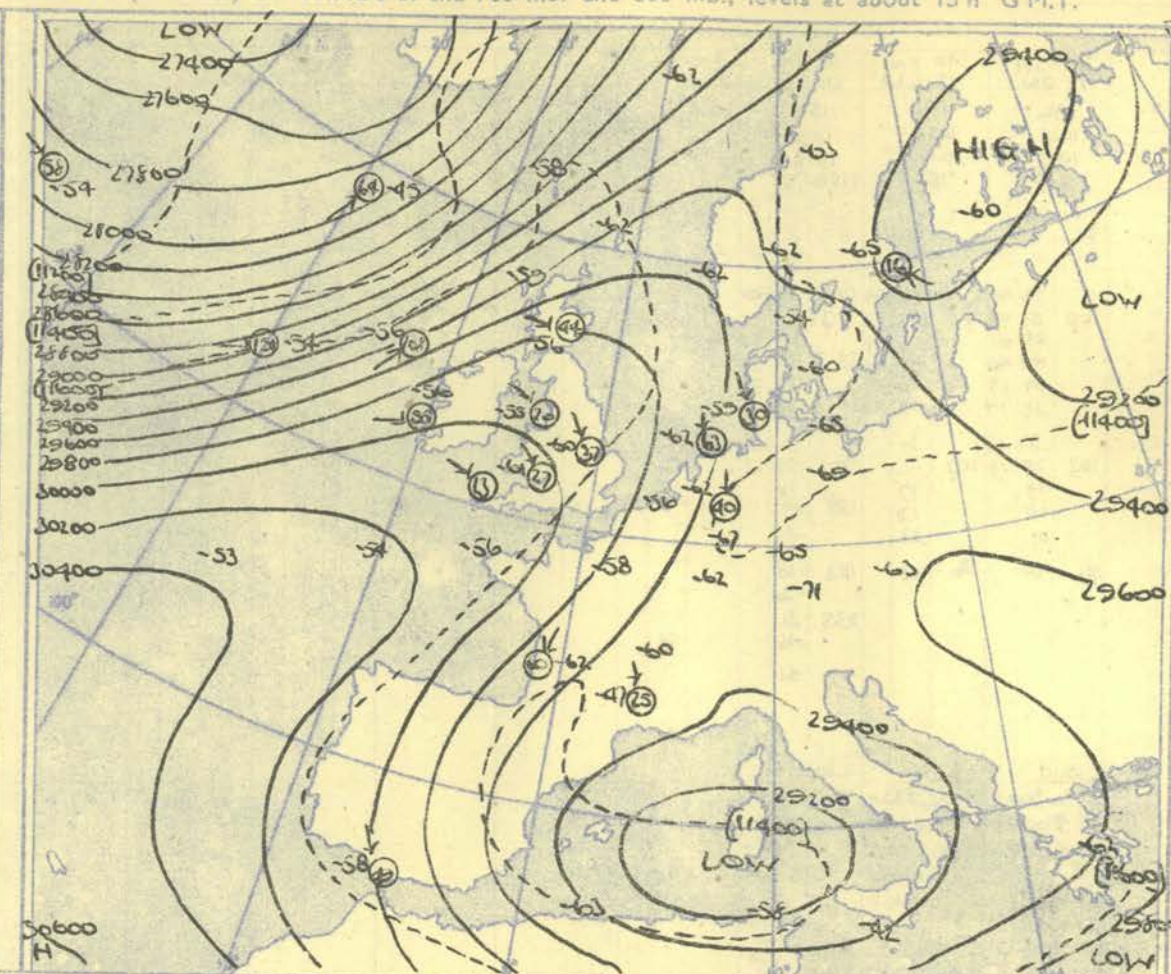
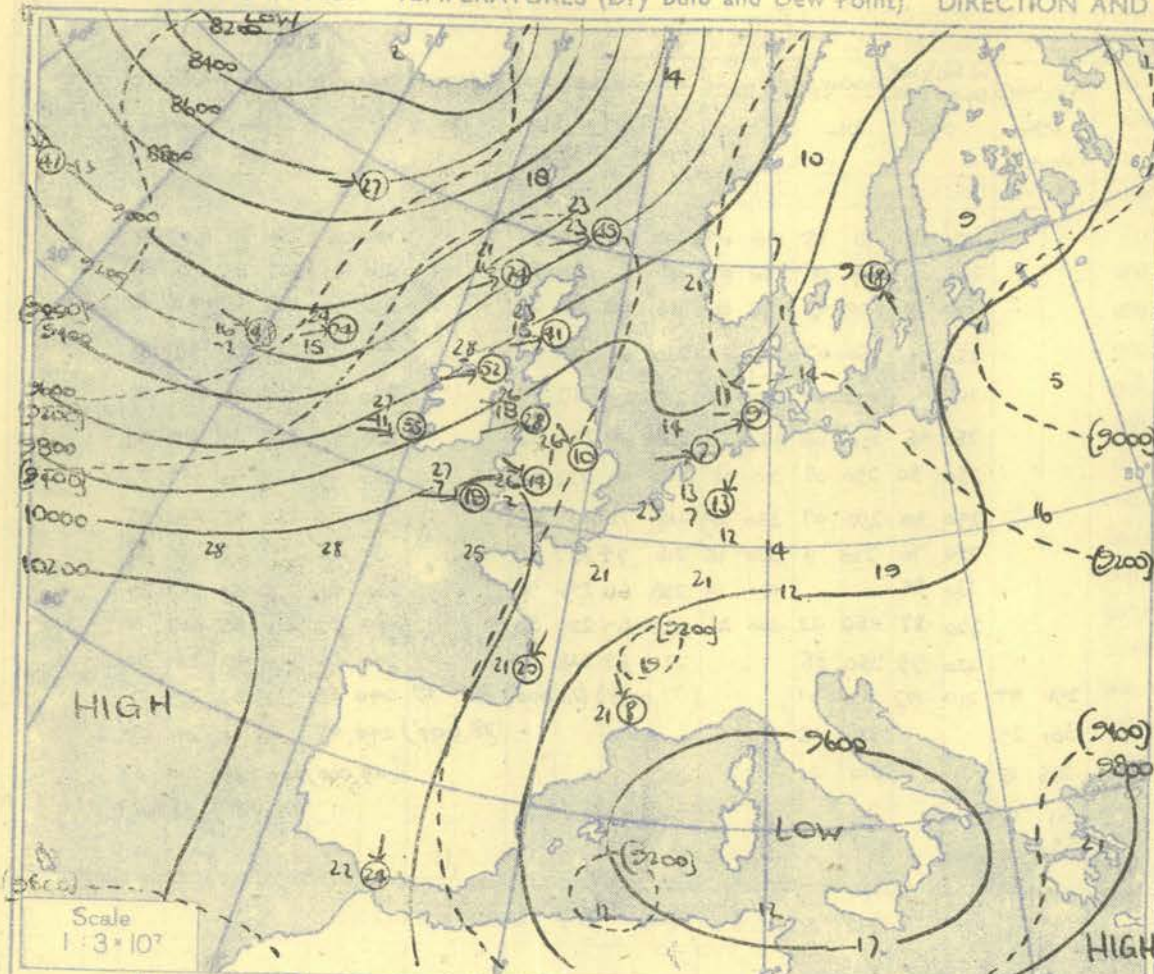
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Pressure	Time M.S.L.	03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		Time M.S.L.	Pressure																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb			mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf	Surf			Surf	Surf																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing	Freezing			Freezing	Freezing	Freezing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Pressure	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h G.M.T.



DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.[illegible]



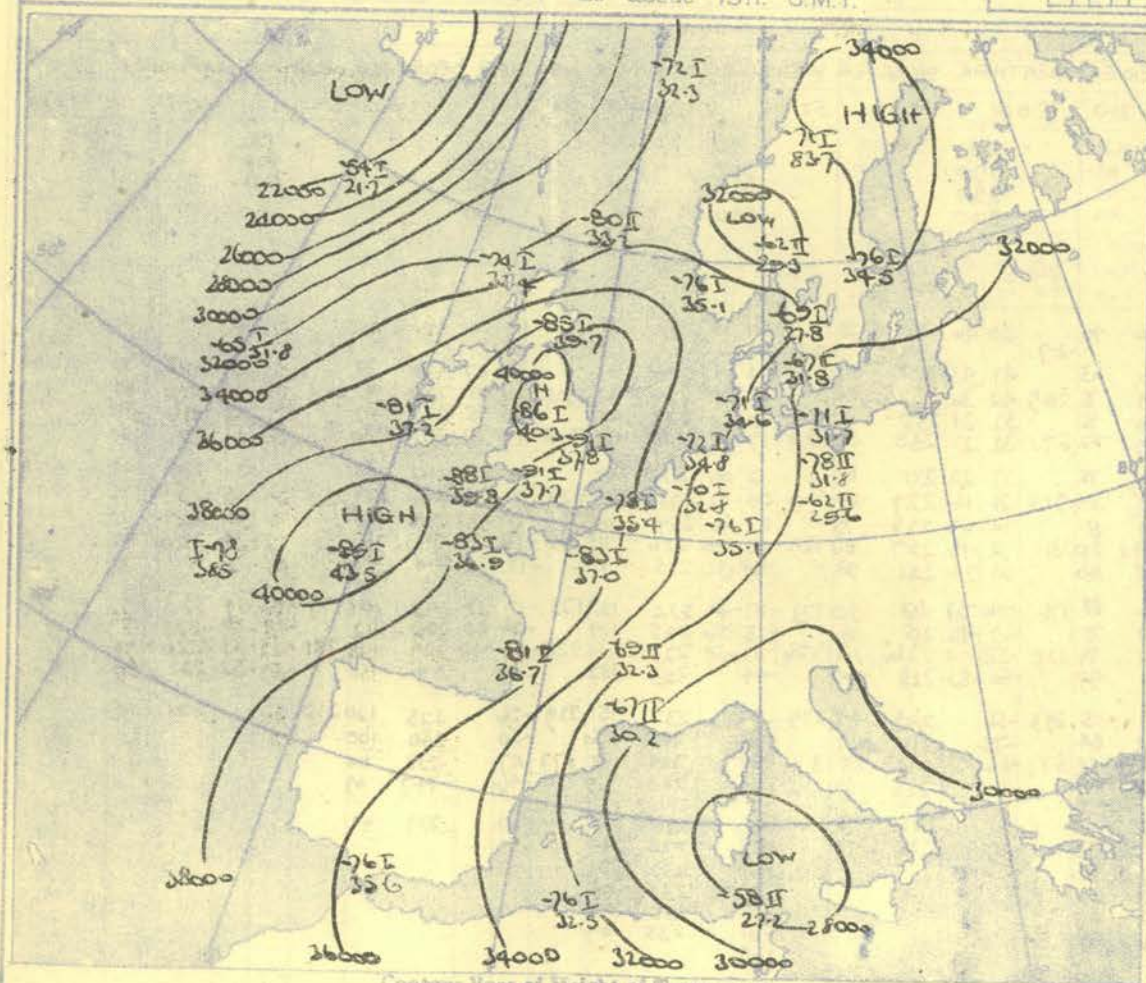
The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

100 80 60 40 20 10 0 10 20 30 40 50 60 70 80 90 100 knots

The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

TROPOPAUSE CHART at about 15h. G.M.T.



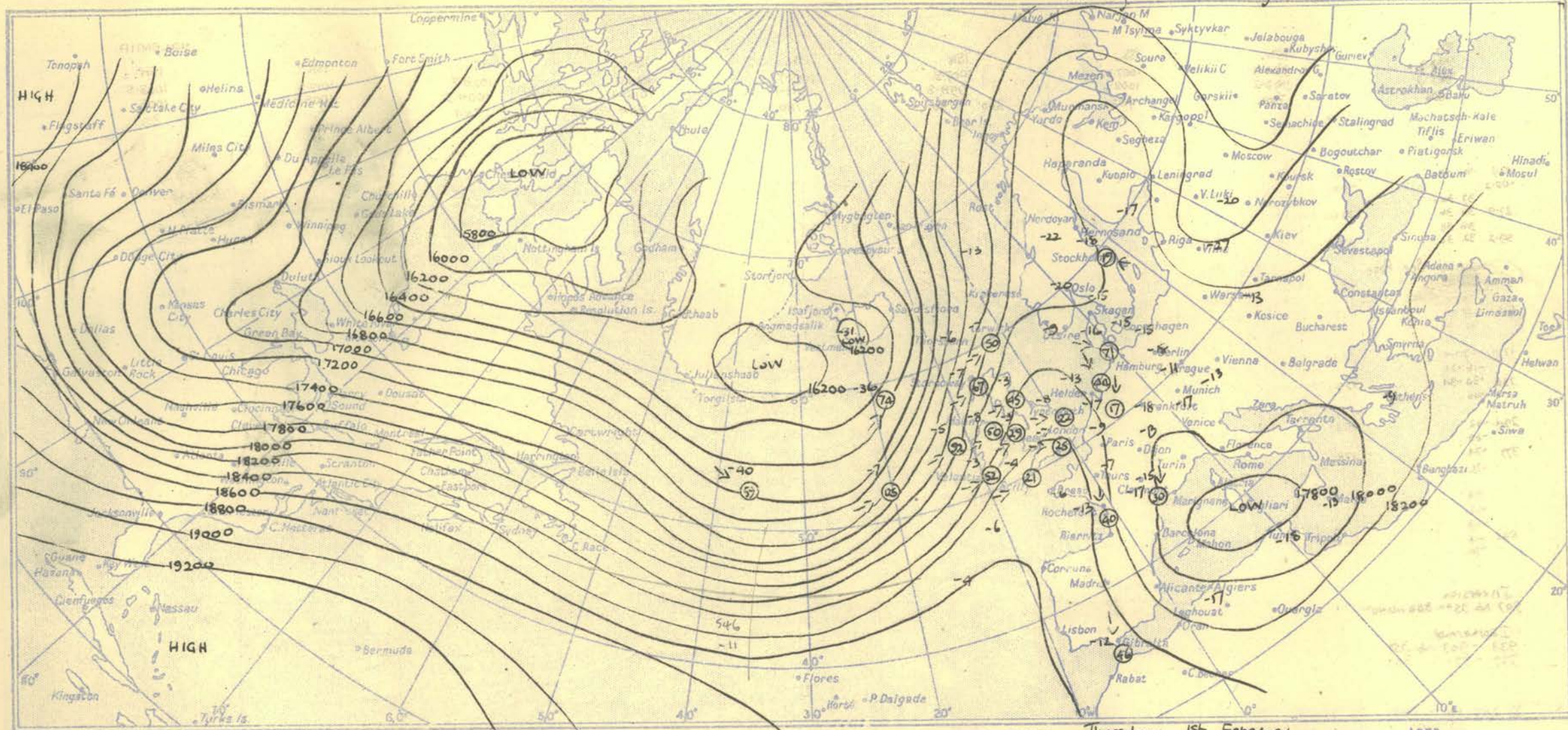
Contour lines of Height of Tropopause.
Temperature of Tropopause.

NOTES ON THE AEROLOGICAL SITUATION.

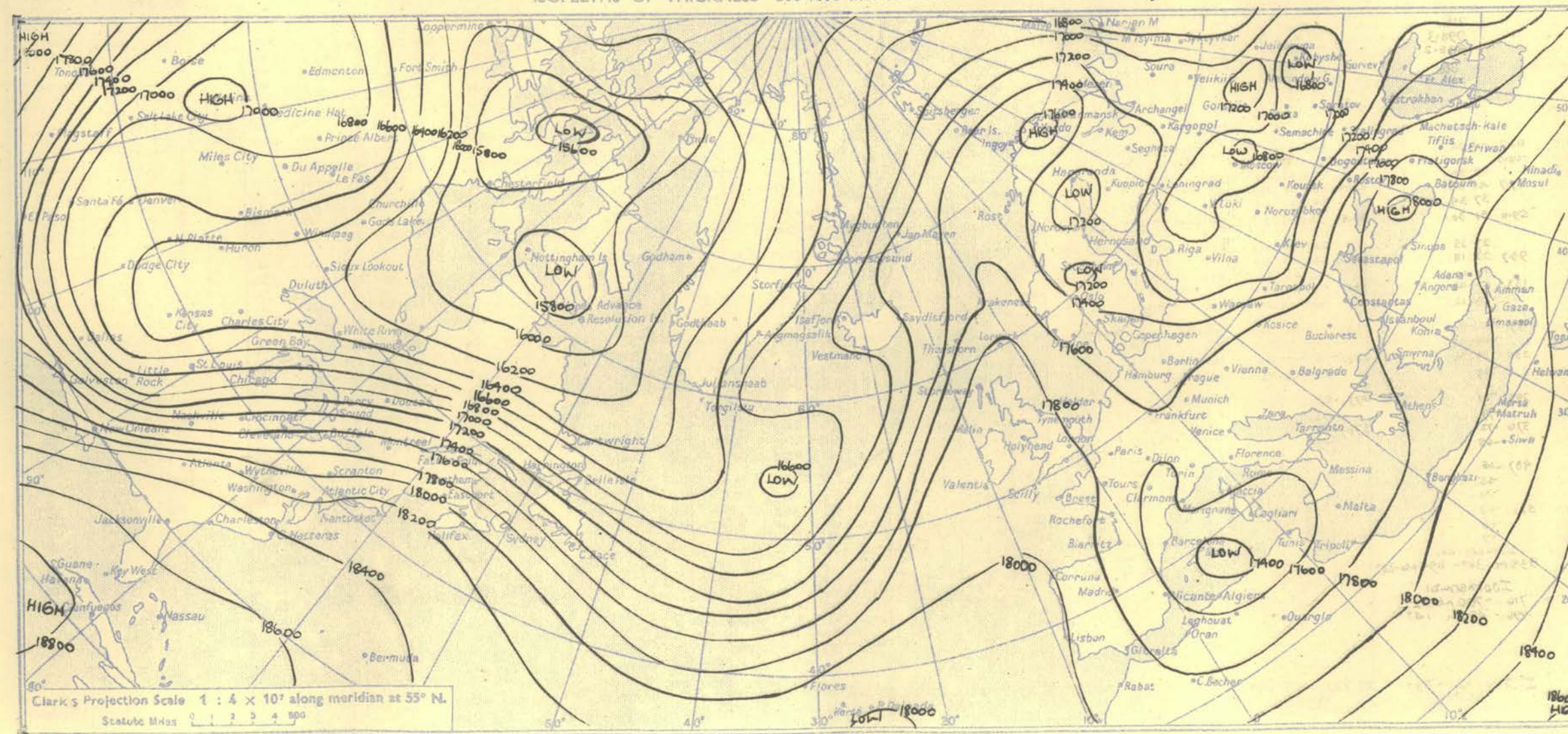
The warm ridge associated with the secondary depression over the Eastern Atlantic moved east over Britain to reinforce the warm ridge off Scandinavia whilst the cold trough over Western Europe and the Western Mediterranean persisted. The cold outbreak from the Davis Strait penetrated further eastwards in the rear of the cold front.

RATES OF SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452..

Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JORNAM, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T. Thursday 1st February 1951.



RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

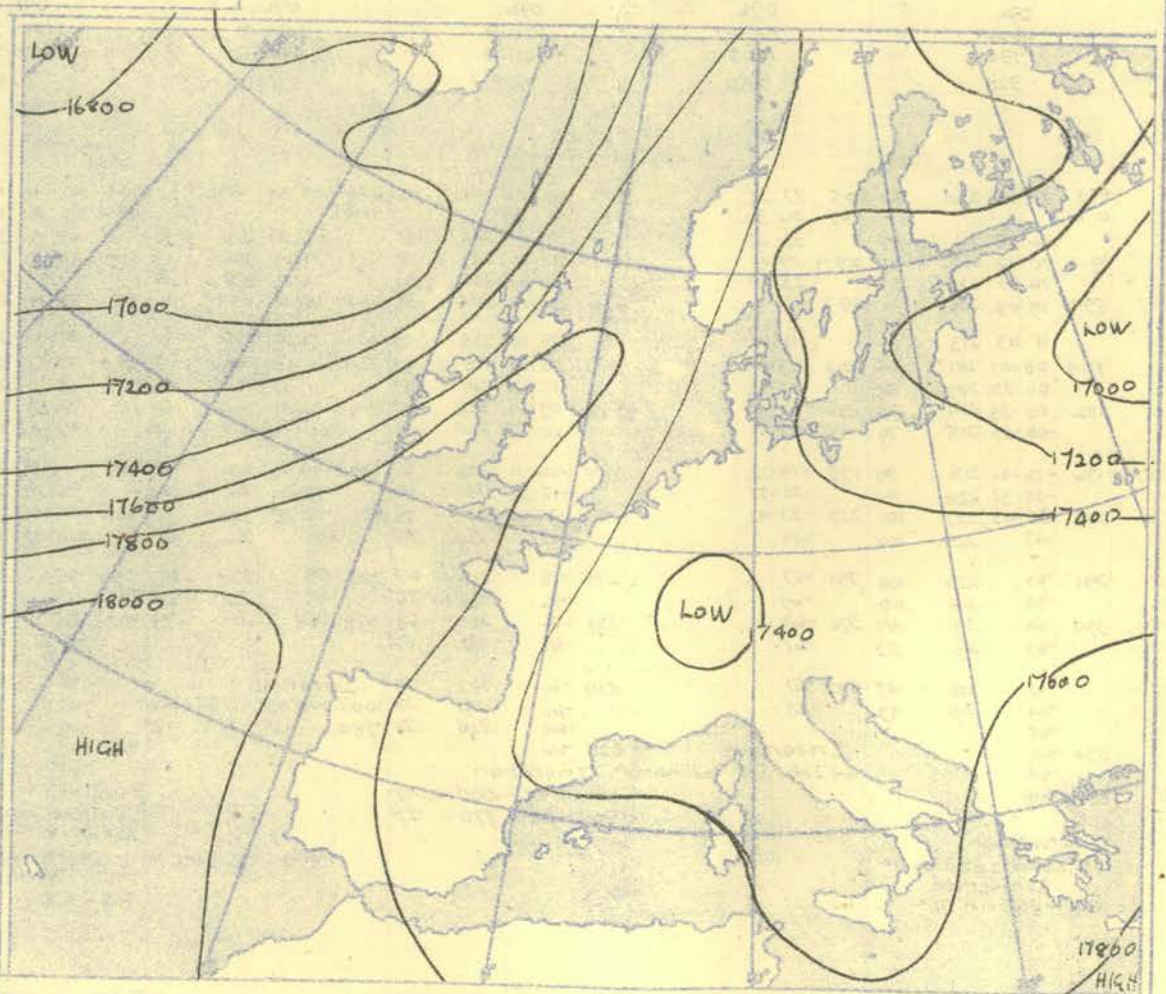
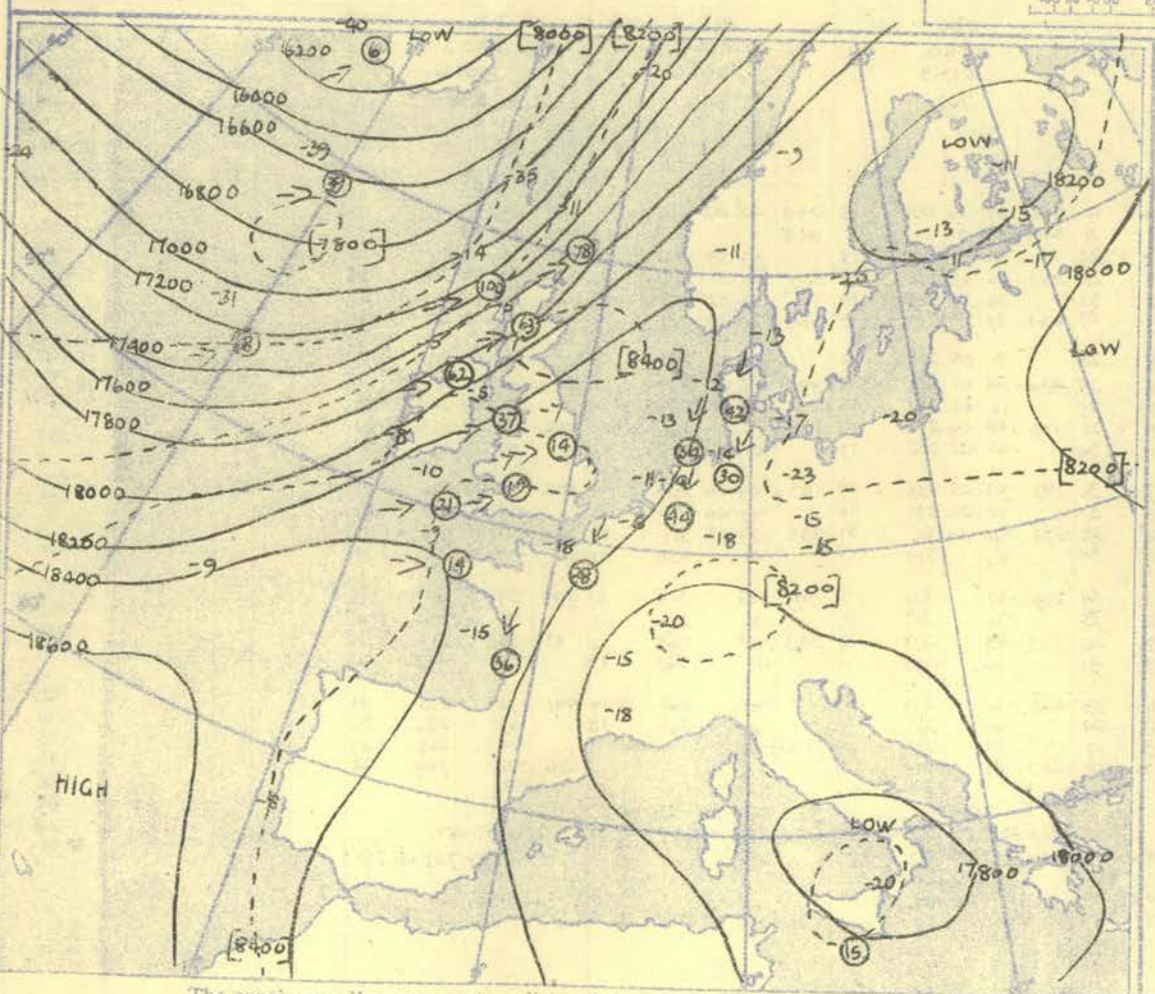
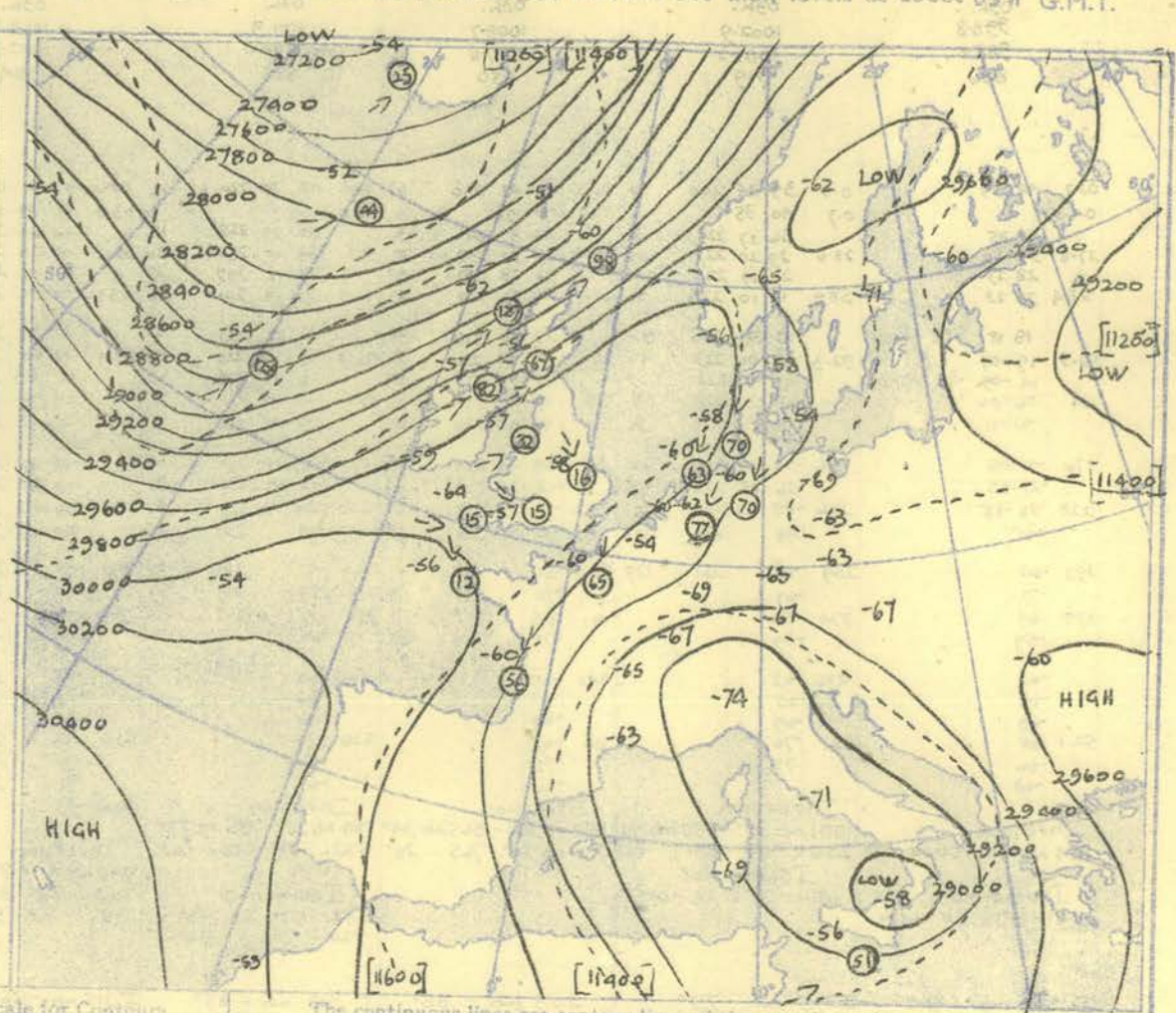
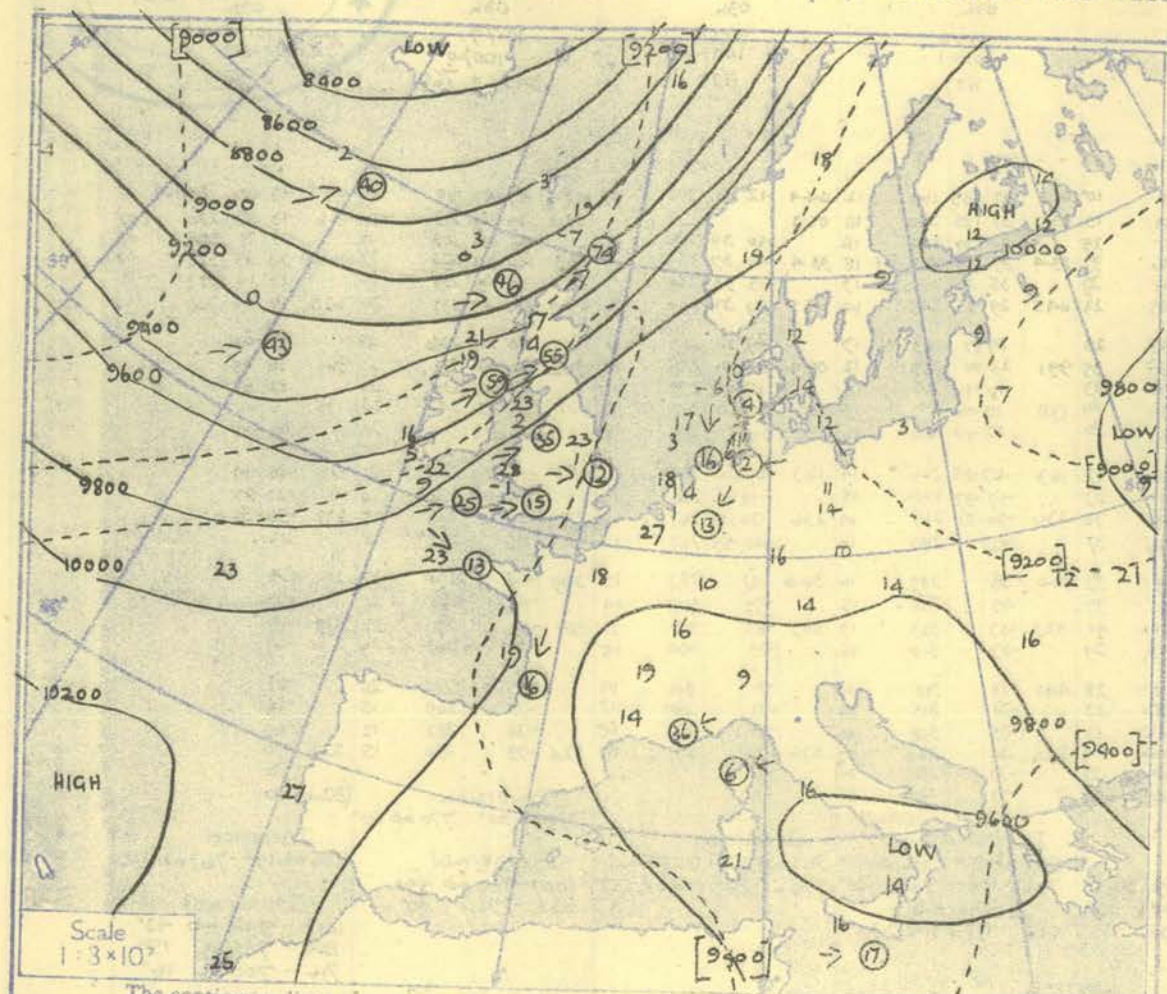
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION								
Time M.S.L. Surf Pressure	Fh		G.M.T.		Fh		G.M.T.		Fh		G.M.T.		Fh		G.M.T.		Fh		G.M.T.		Fh		G.M.T.		Fh		G.M.T.		Fh		G.M.T.		Time M.S.L. Surf Pressure												
	997.3	mb	987.2	mb	994.9	mb	993.2	mb	1007.7	mb	1008.4	mb	1007.8	mb	998.8	mb	1015.7	mb	1013.7	mb	1020.0	mb	1015.4	mb	1020.7	mb	1004.3	mb	1019.5	mb	1008.8	mb		1008.5	mb	1008	mb								
Freezing	800		mb		796		mb		753		mb		800		mb		780		mb		754		mb		744		mb		742		mb		800		mb										
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb								
Surf	02.7	41	40		0.5	48	47		00.2	44	41	230	21	02.6	49	45	170	22	00.6	47	40	170	10	01.2	40	35	195	08	04.4	42	41	220	10	02.9	50	46	180	05	00.3	54	50	Surf			
1000	-00.2				-1.5				02.2	43	41	237	40	02.3	43	41	195	39	04.2	46	39	178	17	05.3	39	35	207	17	05.5	41	40		05.3	49	44	206	24	2.6	52	48	1000				
950	27.9	37	36		27.0	41	38		30.5	42	41	238	49	30.7	41	36	218	39	32.6	42	33	243	23	33.1	33	27	237	18	33.5	32	29	243	13	33.7	46	38	230	19		46	42	950			
850		36	38			39	35			39	38	234	49		38	35	231	48		40	34	249	24		36	20	259	20		35	09	270	12		39	34	261	18		30.6	42	38	850		
800	59.2	32	32		58.3	33	28		61.8	34	30	231	44	62.0	32	27	232	49	64.0	35	28	235	22	64.0	33	08	264	16	64.5	35	07	276	10	65.2	34	28	259	18	61.9	32	28	800			
750		28	28	See Page		27	23	See Page		31	23	231	40		33	04	229	49		28	23	227	24		31	05	283	11		33	03	296	09		33	22	261	18		27	11	750			
700	910	23	23	3	93.0	21	16	3	96.9	23	18	236	41	96.9	28		232	52	98.9	26	18	238	28	98.9	26	01	303	10	99.6	26	02	292	14	100	27	07	257	18	96.7	27	-11	700			
650		17	16	for Winds	132	13	04	for Winds	13.6	14	08	238	42	13.6	10		234	50	13.8	13	-10	262	26	13.8	11	00	311	15	13.9	10	-10	282	16	14.0	12	-04	255	19		22	-18	650			
600	133	09	07		02-05				06	-12	245	45		00			232	50		05	-19	263	31		02	-06	315	22		02	-14	305	19		06	-07	251	18		05	-23	600			
550		01	-01																																							550			
500	17.8	-07	-10		17.7	-07	-16		18.1	-03	-15	249	45	18.1	-08		236	50	18.3	-03	-20	262	29	18.3	-08	-15	316	22	18.4	-07	-20	309	25	18.5	-04	-17	263	21	18.1	-03	-27	500			
450		-18	-21			-17	-27			-13	-25	247	42		-17		238	51		-14	-30	268	28		-17	-24	323	33		-17	-29	319	25		-14	-27	272	24		-11	-31	450			
400	230	-30	-34		22.9	-29	-40		23.4	-26	-38	253	41	23.4	-26		240	35	23.6	-25	-45	273	31	23.6	-29	-39	332	33	23.6	-30	-41	328	25	23.8	-25	-44	268	23	23.5	-24	-45	400			
350																																										350			
300	29.4	-62			29.3	-59			29.8	-56		269	44																													300			
250		-80				-71				-73		268	42																													250			
200	377	-74			37.8	-74			38.2	-82		266	39																													200			
170		-72				-66				-81		257	31																													170			
150		-64							4.41	-64		252	28																													150			
130		-68								-69		252	24																													130			
110		-69								-64		252	22																													110			
100	52.1	-69							52.6	-68		244	19																													100			
90		-70								-65		234	17																														90		
80										-65		210	15																														80		
70																																													70
60																																													60
Inversion 907 mb 35° - 886 mb 40°					Isothermal 618 - 594 mb 08°				Inversion 942 mb 39° - 906 mb 42° 858 - 40° - 888 - 33° 670 - 17° - 632 - 19°				Inversion 780 mb 30° - 750 mb 32°				Inversion 914 mb 41° - 903 mb 42° 728 - 35° - 715 - 27° 687 - 24° - 680 - 25° 200 - 85° - 193 - 84° 980 - 960 mb 44° 877 - 845 - 40°				Isothermal 492 - 482 mb 10°				Isothermal 900 - 878 mb 32° 850 - 765 - 35°				Inversion 978 mb 44° - 950 mb 46° 787 - 33° - 757 - 34°				Isothermal 750 - 700 mb 07°												
Tropopause I 250 mb - 80° 33,200'					Tropopause I 260 mb - 74° 32,400'				Tropopause I 186 mb - 85° 39,700'				N.R.				Tropopause I 200 mb - 85° 38,460' I 183 mb - 86° 40,300'				Tropopause I 204 mb - 91° 37,800'				Tropopause I 205 mb - 91° 37,700'				Tropopause I 189 mb - 88° 39,800'				Tropopause I 211 mb - 81° 37,200'												
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION								
Time M.S.L. Surf Pressure	21h.		G.M.T.		21h.		G.M.T.		21h.		G.M.T.		21h.		G.M.T.		21h.		G.M.T.		21h.		G.M.T.		21h.		G.M.T.		21h.		G.M.T.		G.M.T.		Time M.S.L. Surf Pressure										
	998.3		mb		993.9		mb		1006.0		mb		1006.1		mb		1014.8		mb		1020.3		mb		1020.5		mb		1019.1		mb														
	988.2		mb		991.2		mb		1005.1		mb		997.1		mb		1012.8		mb		1015.7		mb		1004.0		mb		1008.4		mb														
	808		mb		824		mb		766		mb		793		mb		746		mb		765		mb		775		mb		828		mb		810 + 740												
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F											



RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Time M.S.L. Surf Pressure	03h. 998.8 988.8 886	G.M.T. mb mb mb	03h. 1002.9 1001.2 919	G.M.T. mb mb mb	03h. 1008.7 1007.8 850	G.M.T. mb mb mb	03h. 1011.3 1010.0 885	G.M.T. mb mb mb	03h. 1014.3 1012.2 784	G.M.T. mb mb mb	03h. 1019.6 1015.1 827	G.M.T. mb mb mb	03h. 1019.4 1013.0 825	G.M.T. mb mb mb	03h. 1017.7 1007.0 845 + 765	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	03h. 1013.3 1012 1012	G.M.T. mb mb mb	0

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb. levels at about 03.4 G.M.T.



Gradient Wind Scale for Contours at intervals of 200 ft. at Lat. 57° N.

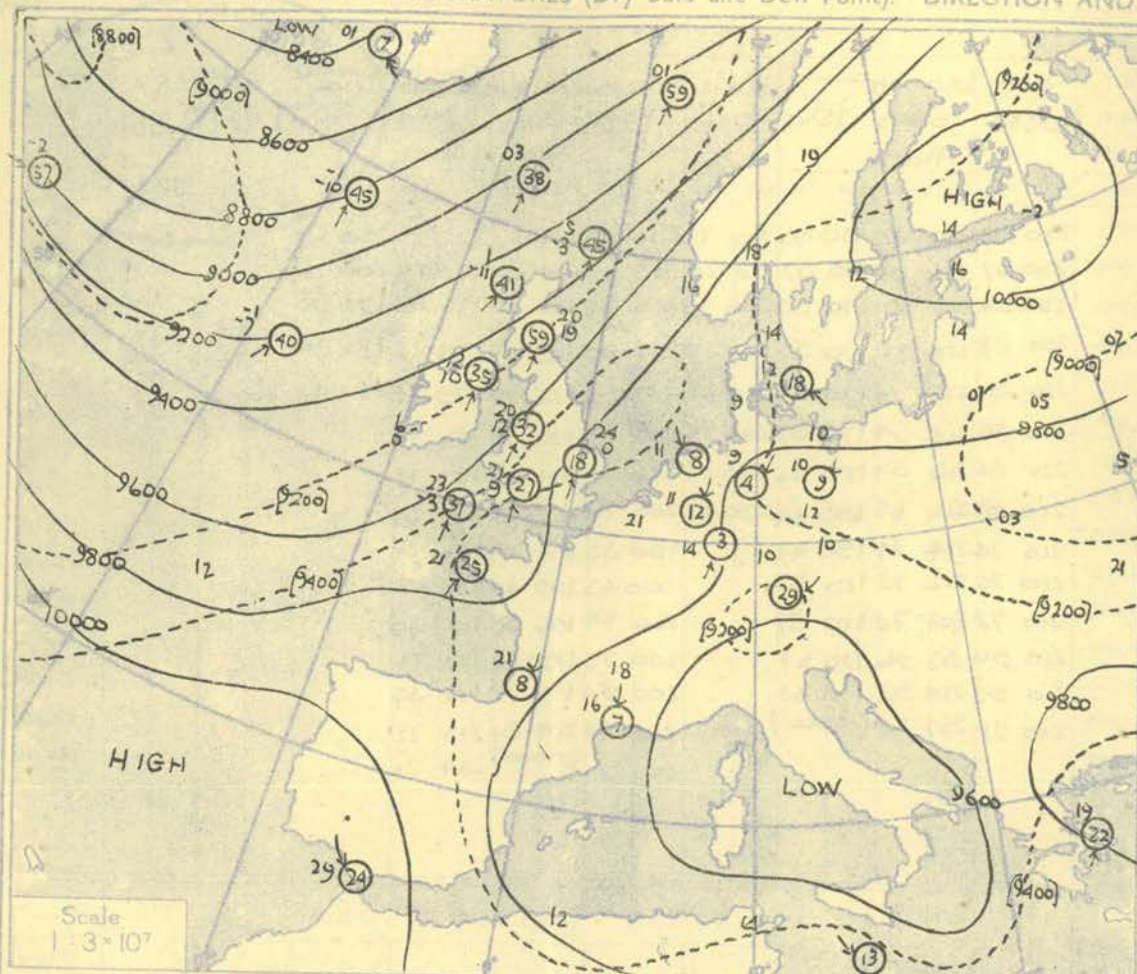
100	80	60	40	20	10	0	10	20	30	40	50	60	80	100
-----	----	----	----	----	----	---	----	----	----	----	----	----	----	-----

The continuous lines are contour lines of the 300 mb. surface. The dotted lines are isopleths of the thickness of the layer 500 - 300 mb.

The continuous lines are contour lines of the 300 mb. surface. The dotted lines are isopleths of the thickness of the layer 700 - 500 mb.

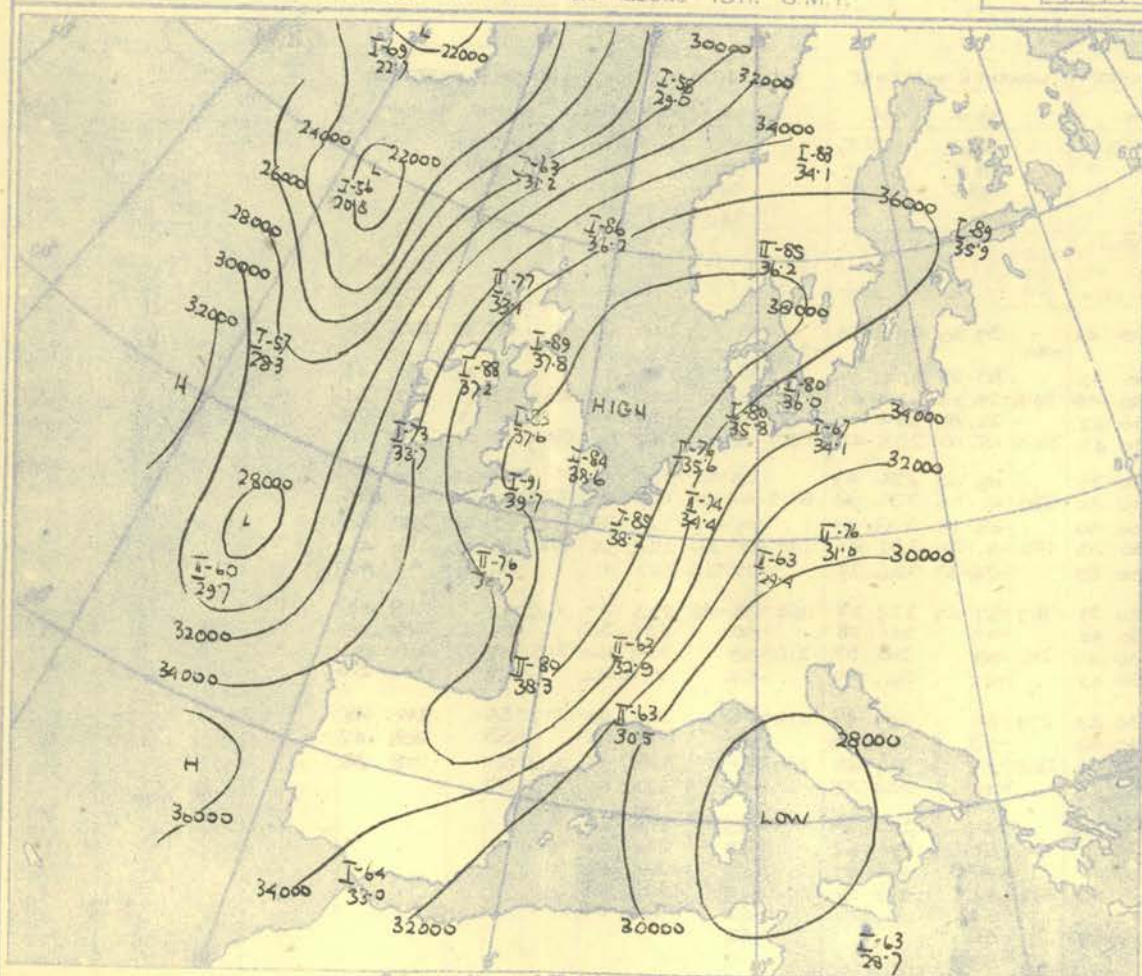
Isopleths of Thickness: 500 - 1000 mb.

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb. levels at about 15 h. G.M.T.



The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

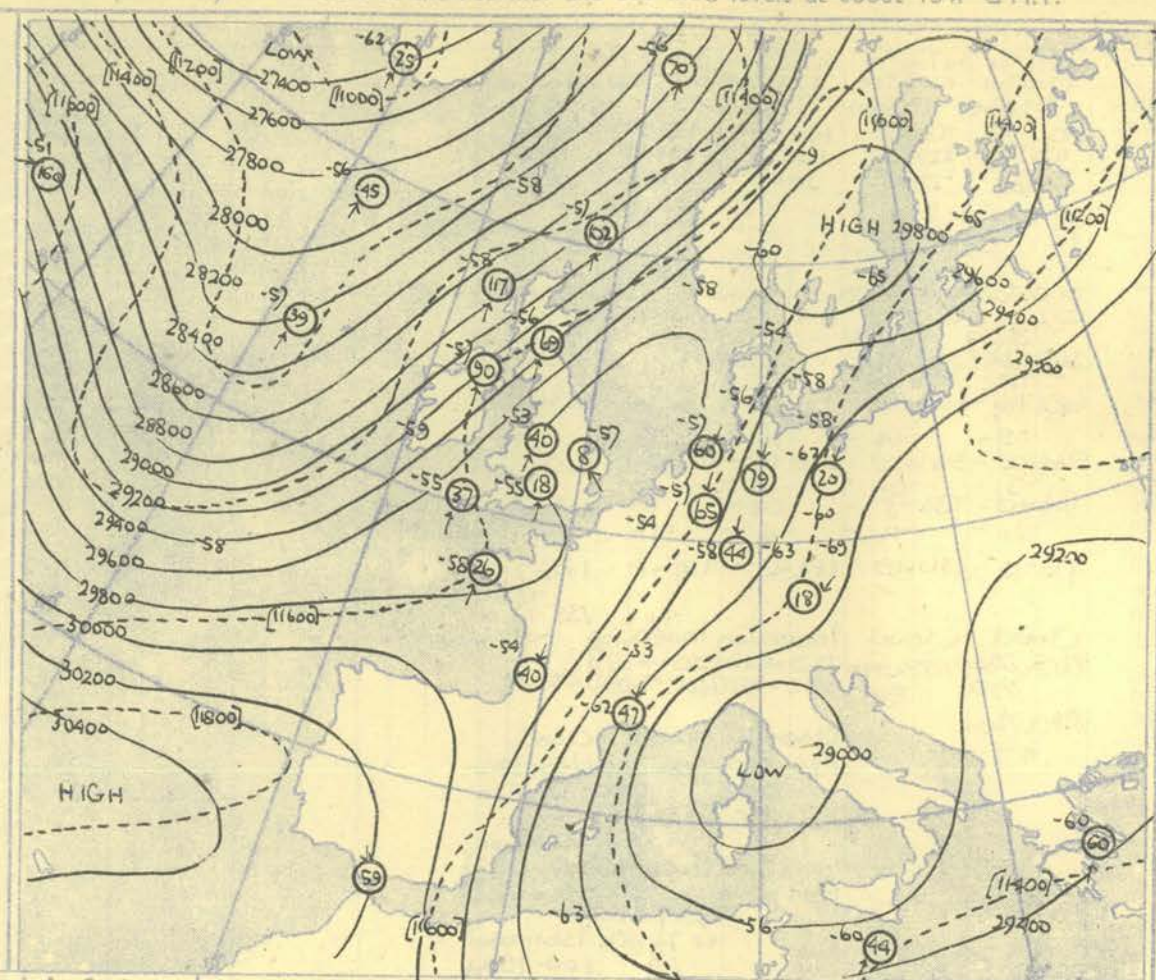
TROPOPAUSE CHART at about 15h. G.M.T.



Contour lines of Height of Tropopause.
Temperature of Tropopause.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

100 80 60 40 20 10 0 knots



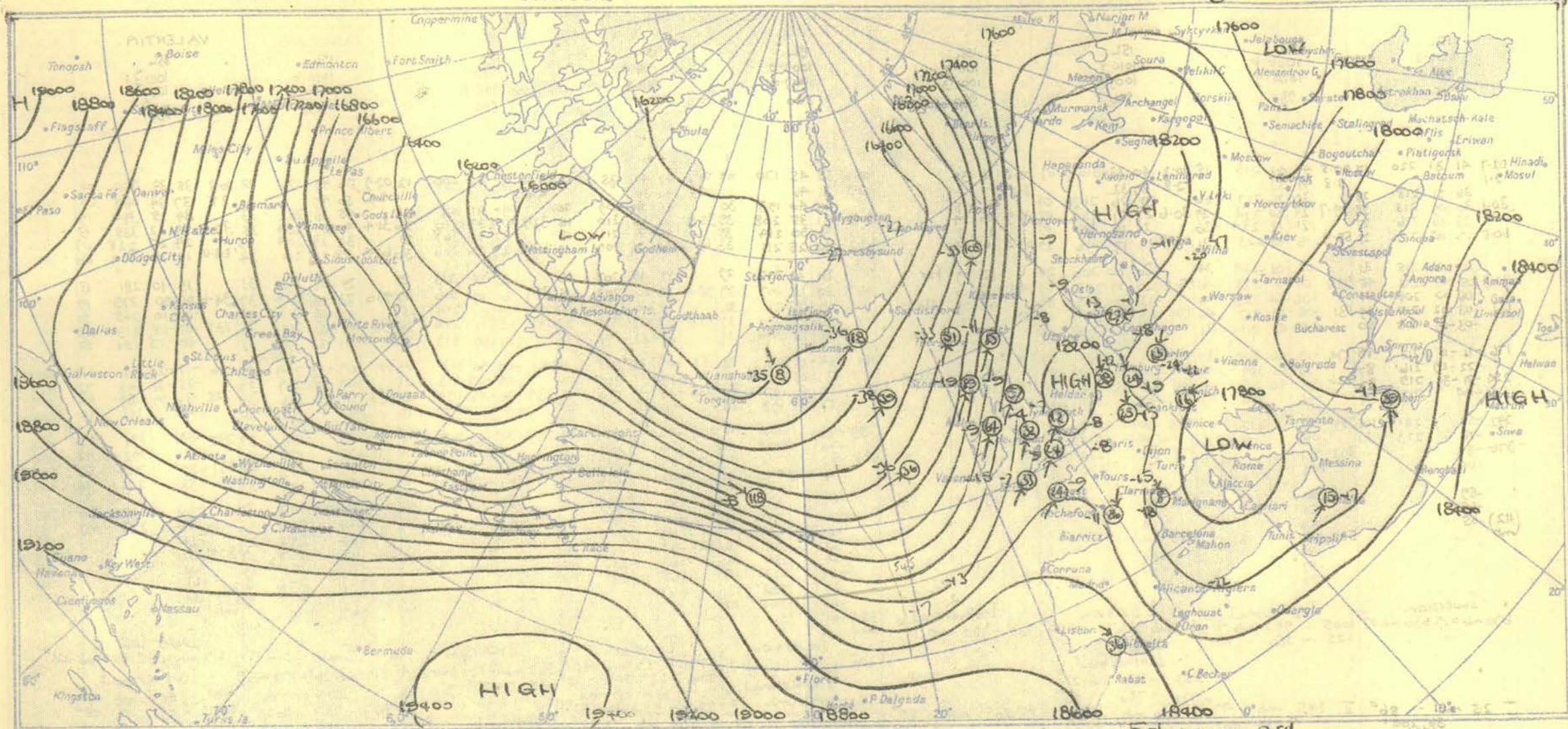
The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

NOTES ON THE AEROLOGICAL SITUATION.

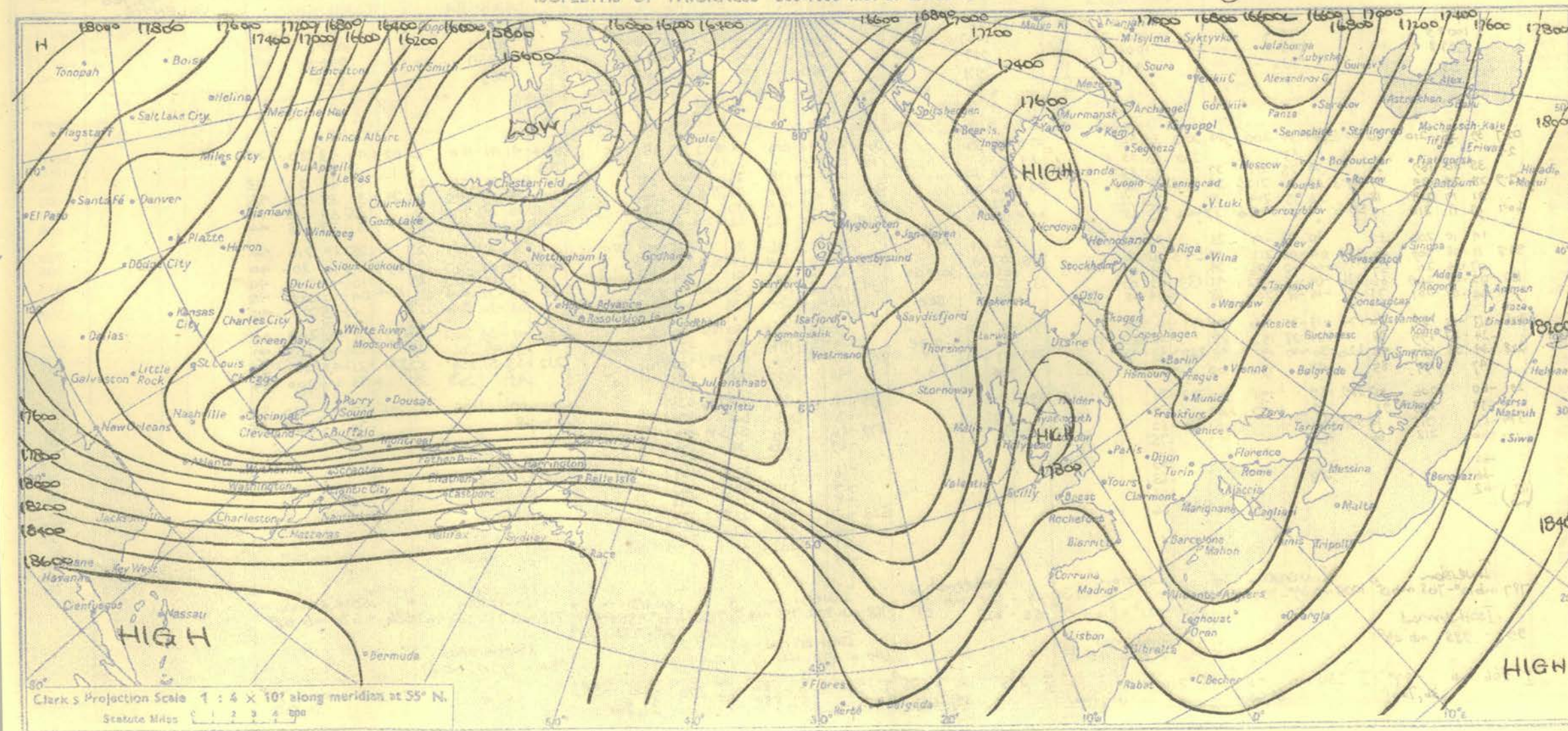
There was slight southeastward movement and occlusion of the warm ridge over the British Isles and the cold trough over Germany and west Mediterranean. The Atlantic cold trough travelled about 800 miles in the twenty four hours in association with a very rapid advance of warm air northeast along the coast of America.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

Meteorological Office, Air Ministry, Kingsway, London, W.C.2
Nelson K. Johnson, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T.



RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

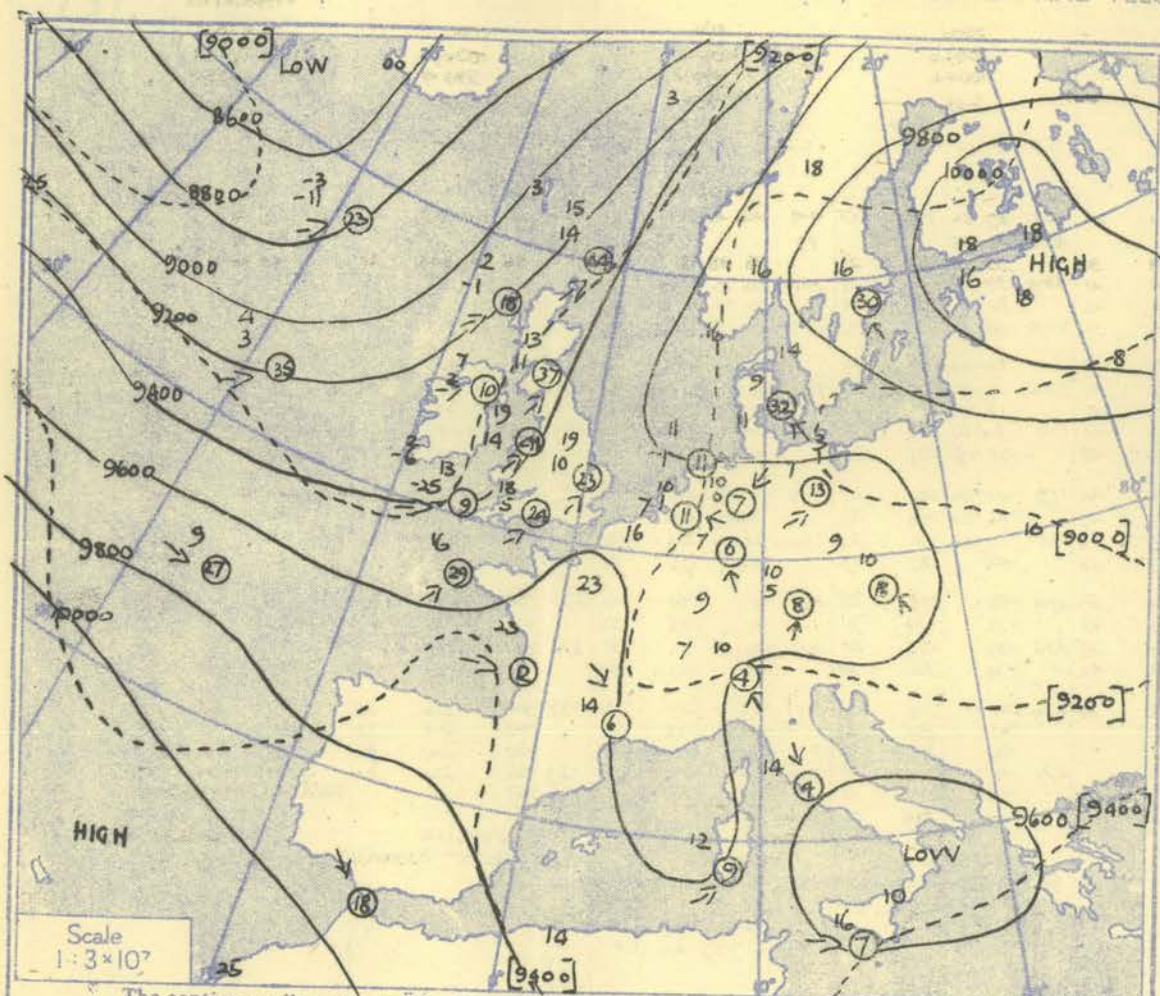
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION
Time	M.S.L.	ISL.		G.M.T.		ISL.		G.M.T.		ISL.		G.M.T.		ISL.		G.M.T.		ISL.		G.M.T.		ISL.		G.M.T.		ISL.		G.M.T.		ISL.		G.M.T.		Time				
		Surf	Pressure	Surf	Pressure	Surf	Pressure	Surf	Pressure	Surf	Pressure	Surf	Pressure	Surf	Pressure	Surf	Pressure	Surf	Pressure	Surf	Pressure	Surf	Pressure	Surf	Pressure	Surf	Pressure	Surf	Pressure	Surf	Pressure	Surf	Pressure					
1000	1000	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
950	950	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
900	900	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
850	850	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
800	800	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
750	750	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
700	700	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
650	650	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
600	600	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
550	550	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
500	500	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
450	450	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
400	400	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
350	350	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
300	300	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
250	250	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
200	200	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
170	170	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
150	150	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
130	130	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
110	110	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
100	100	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
90	90	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
80	80	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
70	70	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
60	60	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
50	50	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
40	40	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
30	30	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			
20	20	1008.2	998.0	1008.2	998.0	1006.6	1004.9	1006.6	1004.9	1010.8	1009.9	1010.8	1009.9	1011.7	1010.3	1011.7	1010.3	1009.0	1007.0	1009.0	1007.0	1016.0	1011.5	1016.0	1011.5	1015.1	1015.1	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5	1016.0	1011.5			

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION	
Time		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		Time	
M.S.L.		1005.2		mb		1001.8		mb		1001.3		mb		1004.0		mb		1000.7		mb		1009.0		mb		1006.4		mb		1006.1		mb		M.S.L.	
Surf		994.9		mb		1001.1		mb		1000.4		mb		995.0		mb		998.6		mb		1004.6		mb		990.2		mb		995.4		mb		Surf	
Pressure		968		mb		940		mb		875		mb		978		mb		830		mb		848		mb		858		mb		992		mb		Pressure	
Height		ft./100		Temp.		ft./100		Temp.		ft./100		Temp.		ft./100		Temp.		ft./100		Temp.		ft./100		Temp.		ft./100		Temp.		ft./100		Temp.		Height	
Wind		Dir.		Vel.		Dir.		Vel.		Dir.		Vel.		Dir.		Vel.		Dir.		Vel.		Dir.		Vel.		Dir.		Vel.		Dir.		Vel.		Wind	
Surf		02.7		35		00.4		38		00.2		39		02.6		34		00.6		45		01.2		37		01.4		42		02.9		41		Surf	
1000		01.3		35		00.4		38		00.3		39		01.3		34		00.2		41		02.5		38		01.7		42		01.8		36		1000	
950		28.9		27		28.2		28		28.3		28		28.9		27		28.4		27		30.4		38		29.9		36		29.7		29		950	
900		25.3		24		21		17		30		29		23		17		30		15		32		25		18		31		28		22		900	
850		59.3		22		58.4		14		59.1		25		59.3		19		59.5		29		61.4		25		21		60.8		26		60.3		850	
800		18		17		09		05		19		17		13		08		25		21		20		16		19		21		20		20		800	
750		93.3		15		02		01		18		33		93.0		07		02		25		95.6		19		10		05		24		94.5		750	
700		09		07		05		08		20		08		10		08		12		07		13		07		20		11		04		21		700	
650		132		01		01		189		54		129		132		03		00		194		134		04		02		207		23		134		650	
600		-07		-12		190		55		-14		-17		81		57		-06		-11		195		56		-12		22		188		43		600	
550		176		-15		21		91		66		172		-21		24		180		84		17.6		-16		24		192		41		174		550	
500		228		-23		28		189		70		75		223		-41		181		105		228		-35		43		186		78		226		500	
450		-44		188		82		50		180		103		248		188		77		-47		185		90		-44		182		25		178		450	
400		29.1		-58		187		90		286		-63		182		113		291		-62		289		-56		180		90		293		-61		400	
350		37.5		-70		186		86		74		183		96		74		187		79		37.5		-62		195		59		377		-73		350	
300		-67		199		72		371		-58		185		89		79		-69		204		49		-65		200		40		-74		210		300	
250		-63		190		55		-14		-17		81		57		-06		-11		195		56		-12		22		188		43		600			
200		176		-15		21		91		66		172		-21		24		180		84		17.6		-16		24		192		41		174		200	
150		228		-23		28		189		70		75		223		-41		181		105		228		-35		43		186		78		226		150	
100		-44		188		82		50		180		103		248		188																			

Saturday 3rd February 1951.

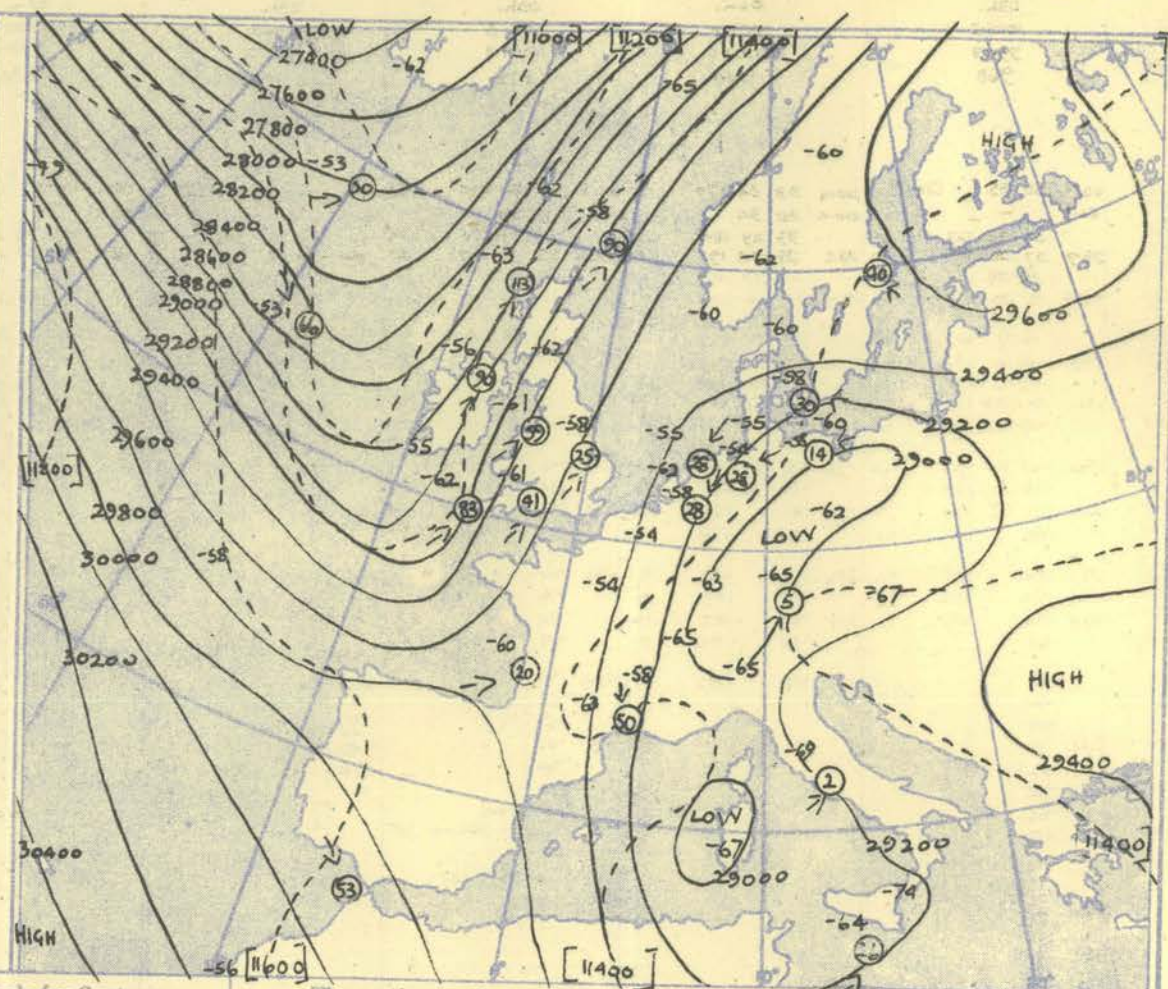
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h G.M.T.



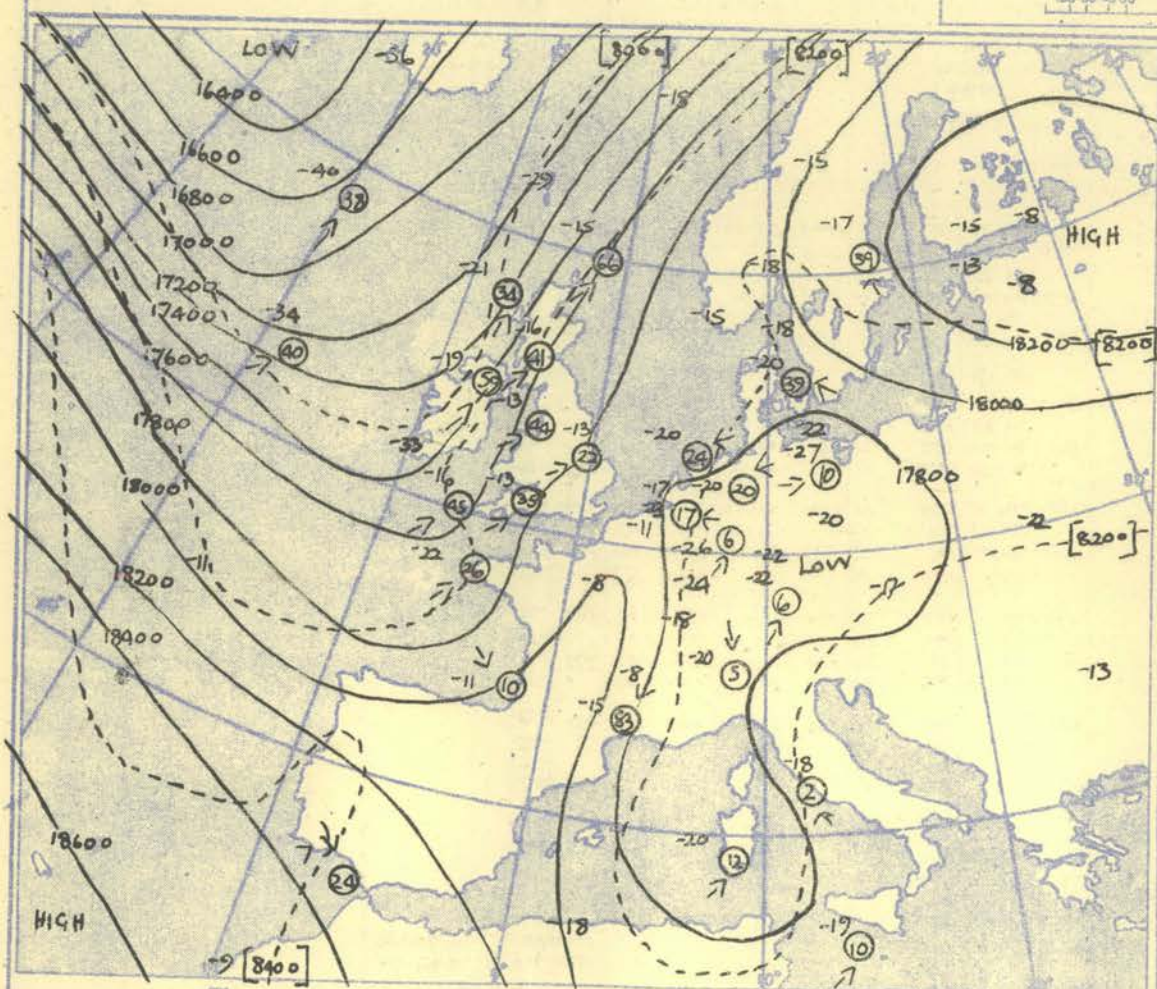
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52½° N.

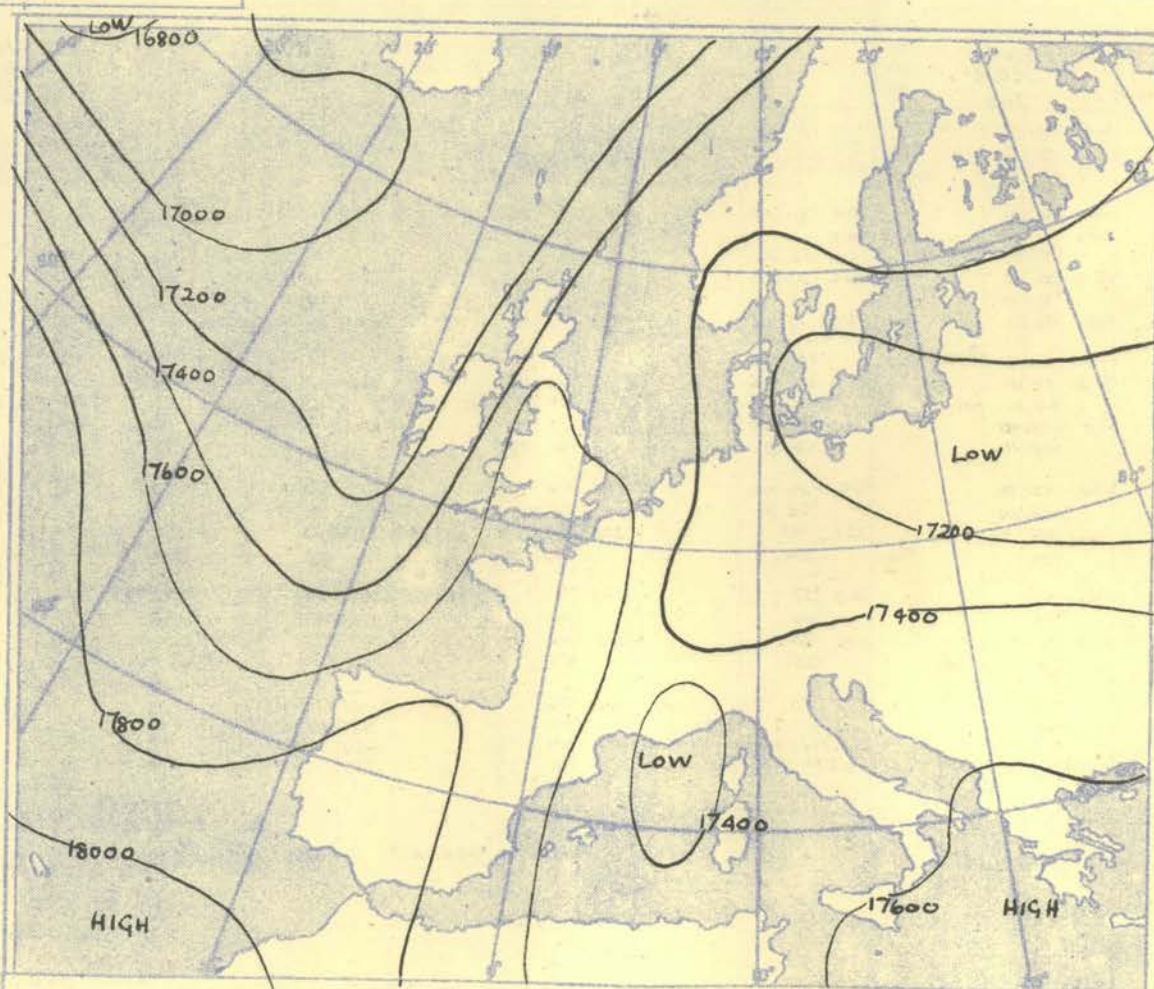
100 80 60 40 20 0 knots



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb.



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.

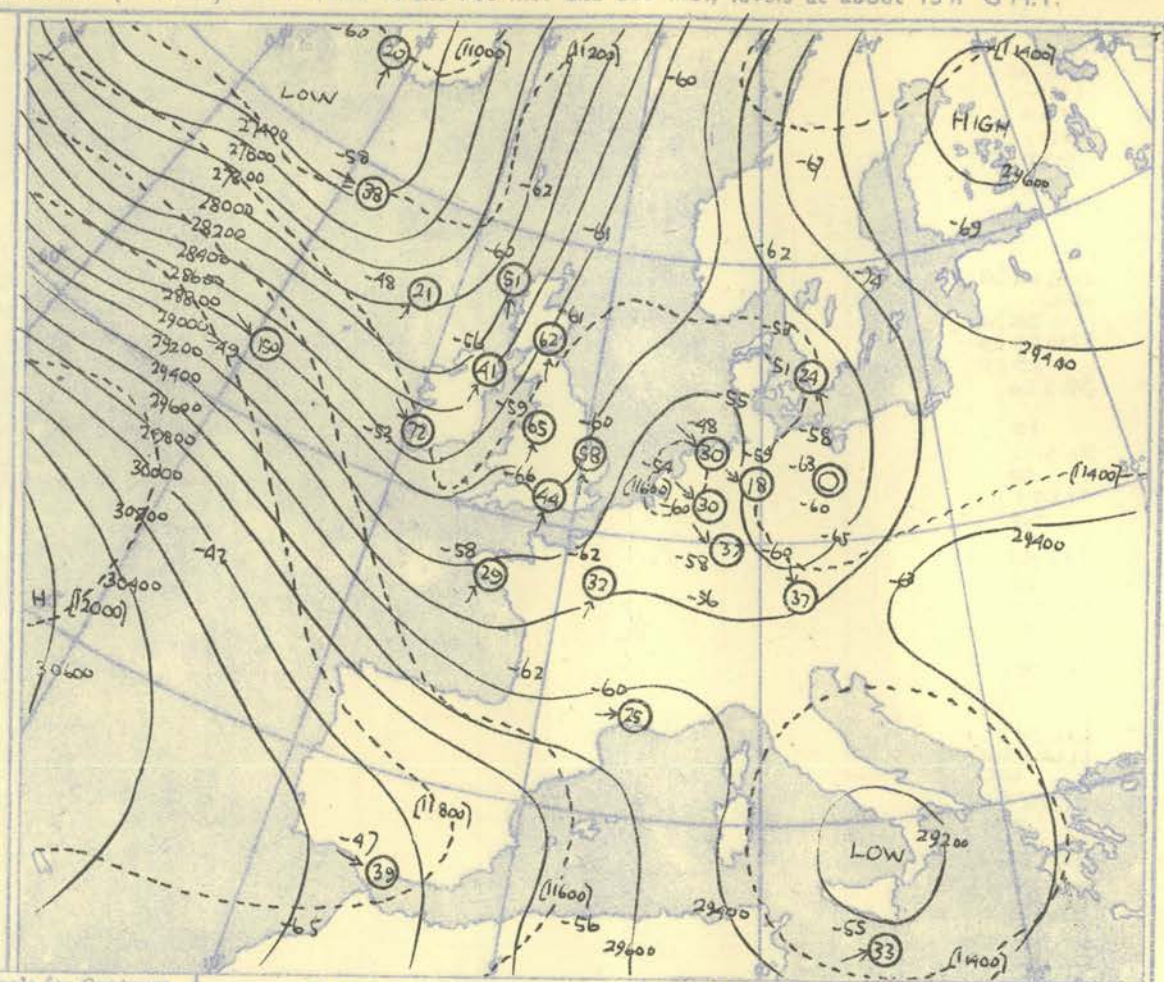
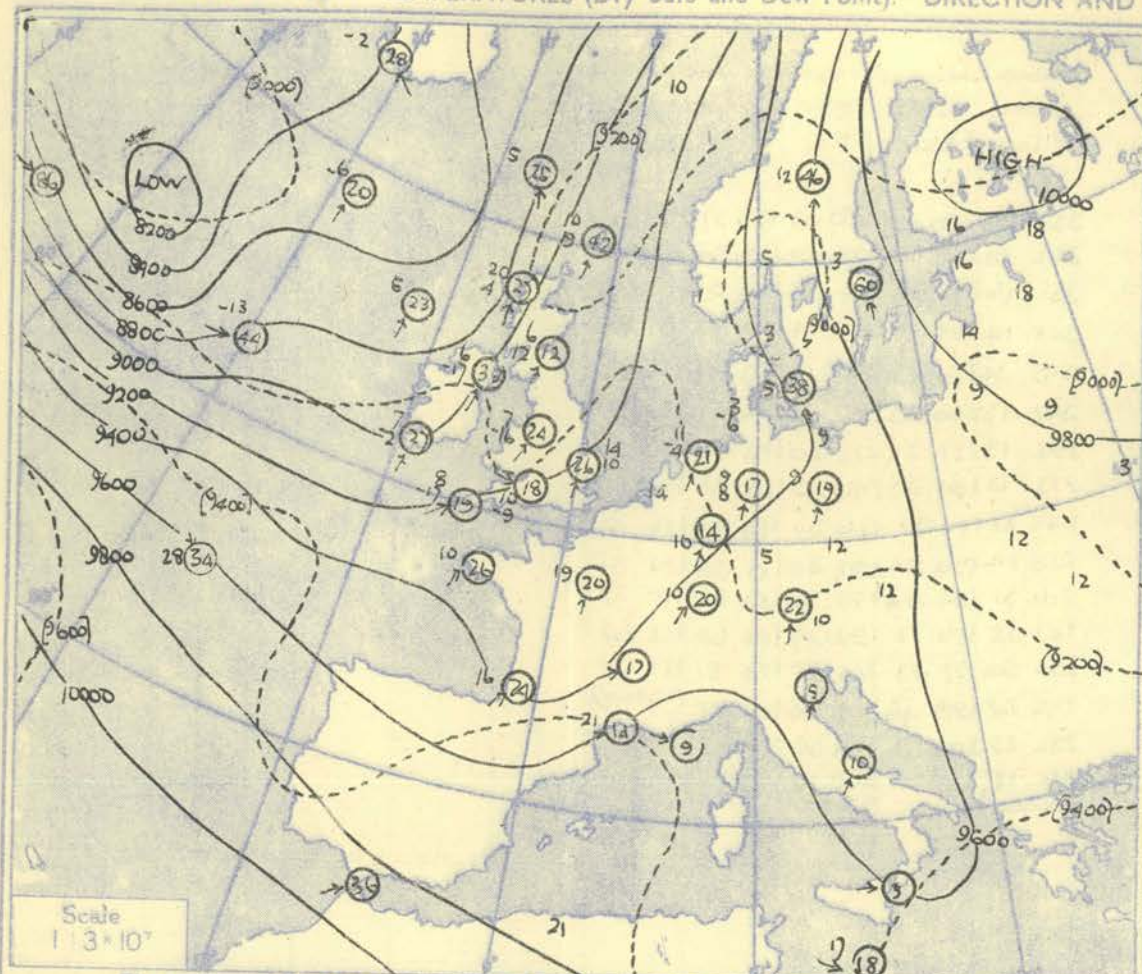


Isopleths of Thickness 500-1000mb.

DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at height above M.S.L.

NEPHOSCOPE OBSERVATIONS[illegible]

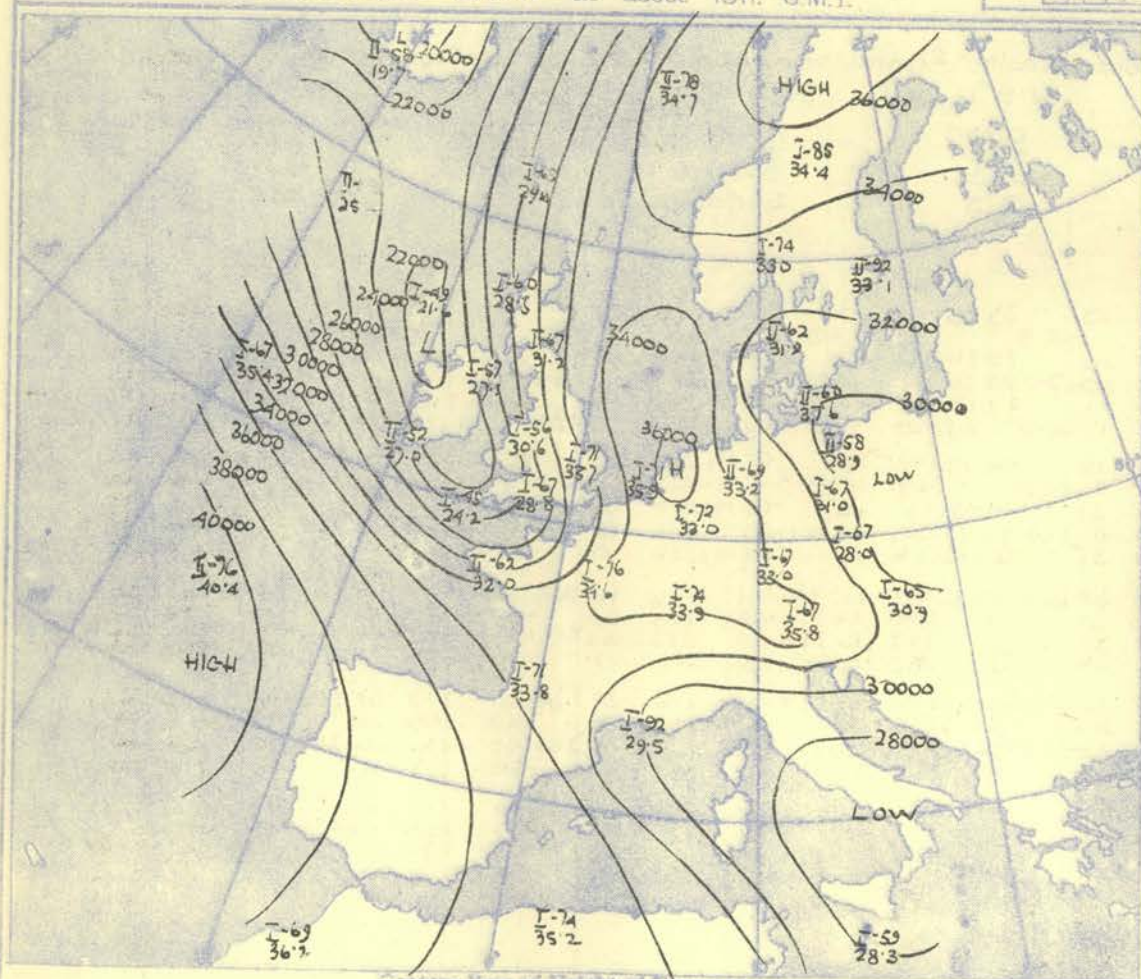
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15h G.M.T.



Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

100 80 60 40 20 10 0 knots

TROPOPAUSE CHART at about 15h G.M.T.

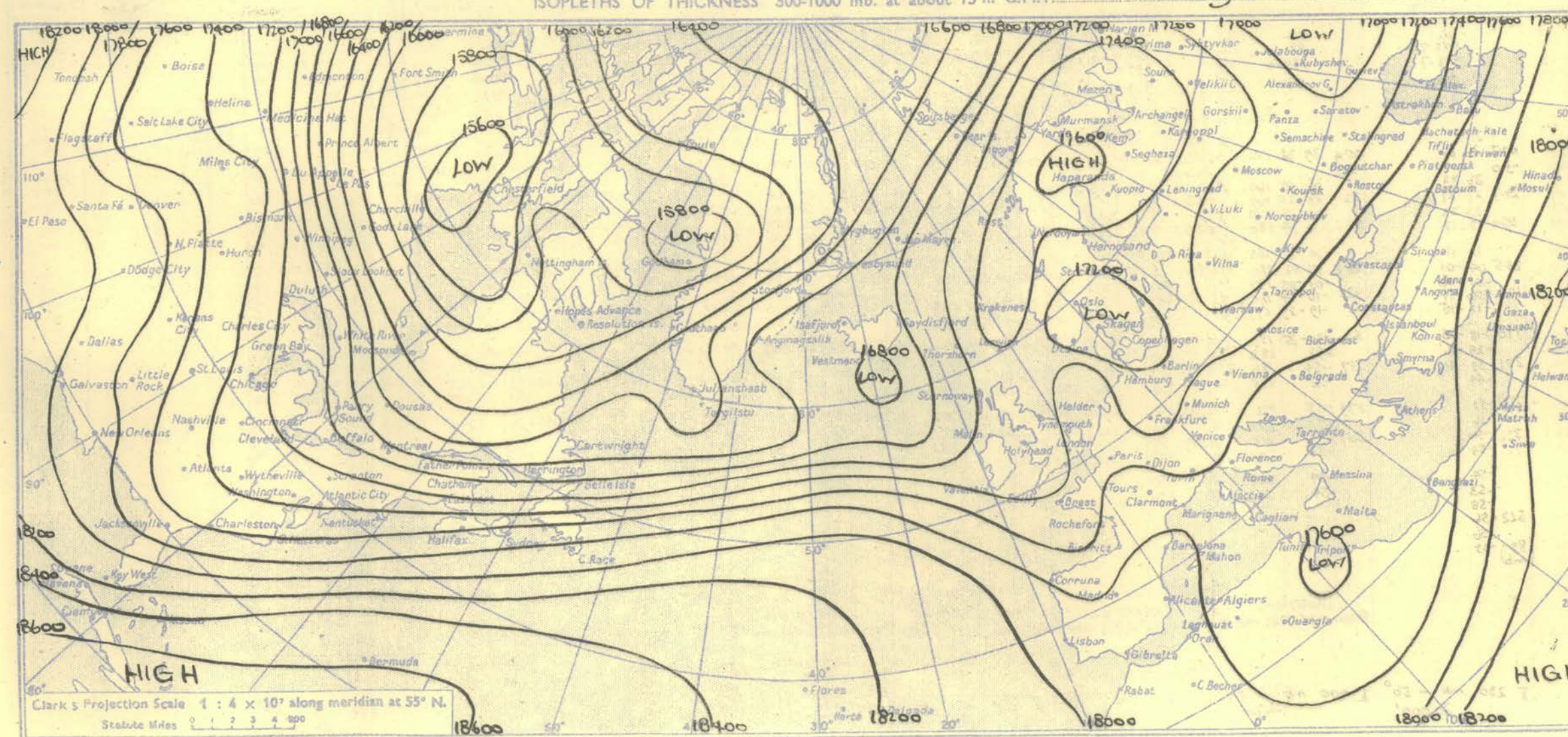
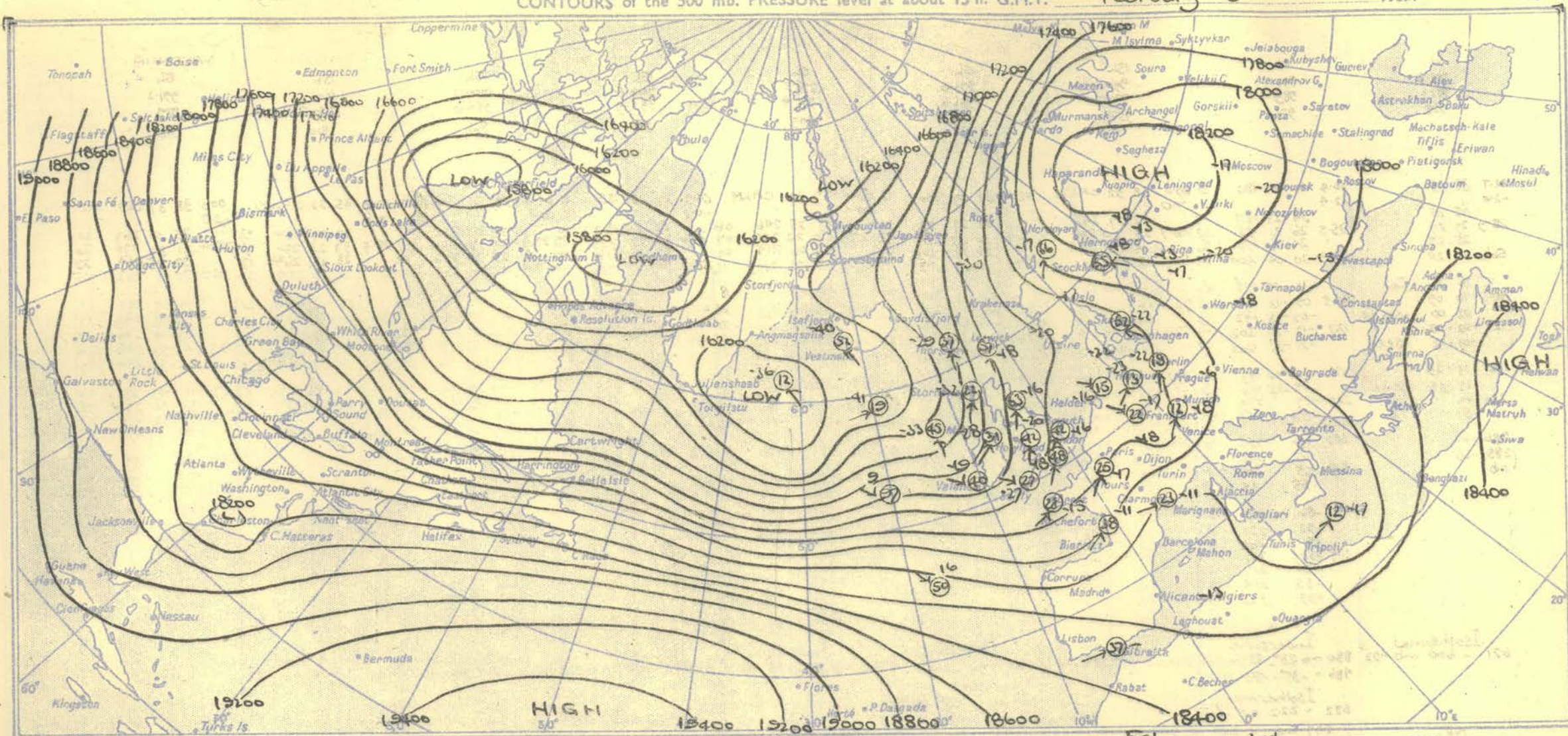


NOTES ON THE AEROLOGICAL SITUATION.

Very rapid occlusion of the warm ridge occurred as the Surface cold front moved slowly east across England. Strong dynamic warming reduced the intensity of the following cold trough in advance of a fast moving, deepening depression.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

Meteorological Office, Air Ministry, Kingway, London, W.C.2
NELSON K. JONKIN, K.C.B., D.Sc., Director.



RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

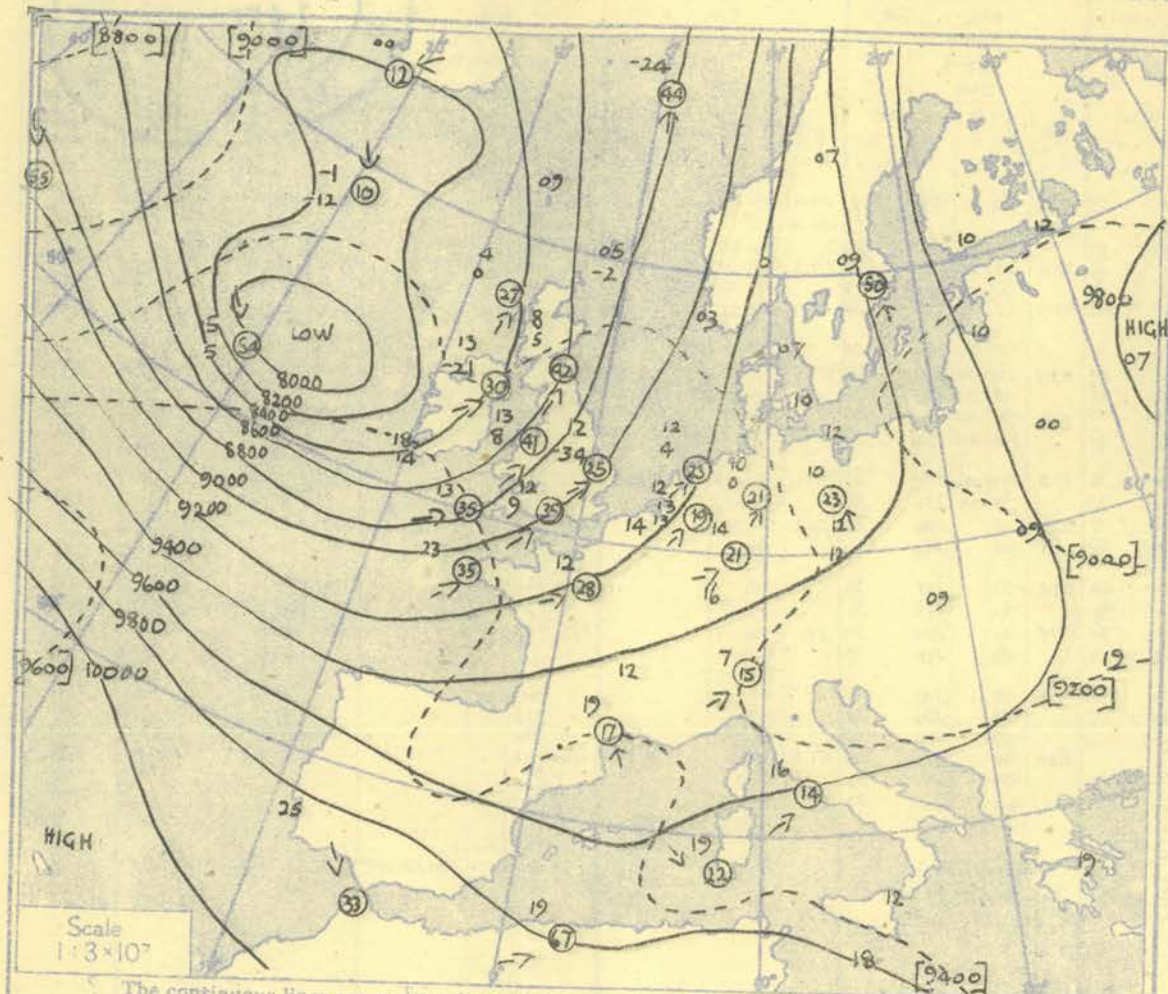
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION					
Time	M.S.L.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	Time	M.S.L.										
Surf	Pressure	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Surf										
Surf	1000	02.7	38	38		00.4	40	31	180	13	00.2	38	32	CALM	02.6	34	29	190	12	00.6	39	34	CALM	01.2	37	35	155	11	04.4	38	34	340	10	02.9	45	32	CALM	00.3	38	37	055	02	Surf
950	950	28.9	27	29		25.5	26	21	193	32	26.7	28	20	248	16	34	27	195	33	33	28	246	06	32	30	192	16	04.4	38	34	340	10	02.9	45	32	CALM	00.3	38	37	055	02	950	
850	850	25.3	25	25		25.9	20	04	200	33	51.1	18	05	241	16	57.2	20	02	195	27	57.7	20	06	33	28	227	07	27.6	31	28	223	13	27.9	29	28	330	12	28.4	39	27	234	12	950
800	800	20.3	20	20		20.0	20	04	200	33	51.1	18	05	241	16	57.2	20	02	195	27	57.7	20	06	33	28	227	07	27.6	31	28	223	13	27.9	29	28	330	12	28.4	39	27	234	12	850
750	750	15.3	15	15	For	12	05	195	20	12	04	232	14	13	12	200	32	13	11	217	8	20	17	184	25	17	02	299	16	15	08	254	20	14	09	252	23	750					
700	700	10.2	10	09	winds	08.5	05	12	191	27	08.5	06	12	221	12	08.5	06	12	203	33	08.5	07	16	232	24	08.5	07	16	232	24	08.5	07	16	232	24	08.5	07	16	232	24	700		
650	650	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	650		
600	600	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	600		
550	550	02.00	02	00	see	02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	550		
500	500	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	500		
450	450	02.00	02	00	page	02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	450		
400	400	02.00	02	00	3	02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	400		
350	350	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	350		
300	300	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	300		
250	250	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	250		
200	200	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	200		
170	170	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	170		
150	150	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	150		
130	130	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	130		
110	110	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	110		
90	90	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	90		
80	80	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	80		
70	70	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	70		
60	60	02.00	02	00		02.00	02	00	192	23	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	02.00	02	00	208	21	60		
Isothermal		621 - 600 mb - 02°		Inversion		880 mb 23° - 857 mb 25°		Inversion		310 mb - 62° - 300 mb - 61°		Isothermal		986 - 943 mb 34°		Inversion		910 mb 27° - 885 mb 29°		Inversion		305 mb - 61° - 300 mb - 56°		Inversion		860 mb 24° - 840 mb 27°		Isothermal		491 - 470 mb 28°													
Tropopause		NR.		I 297 mb - 60°		28,500'		I 265 mb - 61°		31,200'		I 318 mb - 57°		27,100'		I 275 mb - 62° 30,600'		I 217 - 62° 35,600'		I 288 mb - 71°		33,700'		I 297 mb - 67°		28,800'		I 370 mb - 45°		24,200'		I 321 mb - 52°		27,000'		Tropopause							
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION					
Time	M.S.L.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	ISL.	G.M.T.	Time	M.S.L.										
Surf	Pressure	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Surf										
Surf	1000	02.7	36	36		00.4	39	33	170	30	00.2	32	30	150	05	02.6	35	34	150	25	00.6	34	31	160	10	01.2	34	34	210	05	04.4	33	31	CALM	02.9	42	36	190	25	Surf			
950	950	24.7	27	27		22.9	28	23	169	42	25.1	29	169	15	34	33	187	45	33	29	180	19	32	32	205	12	35	31	227	08	39	33	200	43	950								
850	850	23.2	22	22		21.1	18	179	51	24	196	18	182	37	31	28	194	44	25	11	208	21	26.4	28	28	237	08	27.0	32	14	243	13	26.3	33	28	200	42	850					
800	800	18.1	17	17		16.1	14	189	55	55.5	18	194	21	54	3	20	15	193	45	56.1	18	05	205	20	56.8	20	20	281	12	57.5	19	07	236	13	57.0	24	19	211	40	800			
750	750	12.1	11	11		10.1	11	185	54	13	201	21	201	21	14	09	194	42	14	07	221	21	16	06	283	15	12	10	244	15	19	14	226	39	750								
700	700	08.5	04	01		07.8	01	02	180	51	89.2	06	211	20	88.0	09	03	188	45	89.8	07	13	230	24	90.8	09	04	280	18	91.1	05	16	250	18	91.0	12	07	226	34	700			
650	650	06.1	01	06		05.1	01	05	177	48	127	02	202	22	01	06	188	45	00	20	237	24	00	08	288	22	01	24	265	20	05	01	232	29	650								
600	600	06.1	01	06		05.1	01	05	177	48	127	02	202	22	01	06	188	45	00	20	237	24	00	08	288	22	01	24	265	20	05	01	232	29	600								
550	550	06.1	01	06		05.1	01	05	177	48	127	02	202	22	01	06	188	45	00	20	237	24	00	08	288	22	01	24	265	20	05	01	232	29	550								
500	500	17.0	18	23		16.7	30	35	181	46	17.0	26	235	18	169	26	39	209	48	171	27	37	2																				

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)



STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION											
Pressure Time M.S.L. Surf Freezing	03h. G.M.T.				03h. G.M.T.				03h. G.M.T.				03h. G.M.T.				03h. G.M.T.				03h. G.M.T.				03h. G.M.T.				03h. G.M.T.				03h. G.M.T.											
	982.9 mb				973.9 mb				979.9 mb				975.5 mb				981.0 mb				990.0 mb				987.3 mb				979.3 mb				952.2 mb											
	972.9 mb				972.3 mb				979.0 mb				965.8 mb				978.9 mb				985.4 mb				971.1 mb				968.8 mb				836 mb											
	936 mb				950 mb				883 mb				959 + 925 mb				862 mb				868 mb				915 mb				836 mb															
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb											
Surf	02.7	36	36		00.4	36	33	165	20	00.2	35	28	160	25	02.6	33	31	160	08	00.6	35	33	150	25	01.2	33	31	150	10	04.4	38	37	180	18	02.9	43	39	00.3	45	42	Surf			
1000	-04.6				07.0					-05.5					-06.4					-05.1					-02.7					-03.4					-05.6				1000					
950		34	34			32	29	156	27		33	24	169	36		31	27	168	19		32	29	154	33		34	33	201	24		36	35	181	34		41	37		950					
900	23.1	28	28		20.8	27	25	144	28	22.4	32	21	178	38	21.3	30	21	180	20	22.6	31	28	187	48	25.0	33	28	210	25	24.5	31	31	188	39	22.6	37	33		900					
850		22	21			22	20	179	33		27	18	185	39		25	08	178	22		23	27	203	47		30	09	215	29		27	26	198	45		34	31		850					
800	53.4	16	13		51.1	16	14	184	28	53.1	20	15	190	41	51.9	20	04	200	24	53.5	23	21	242	46	55.7	23	13	211	28	55.1	23	22	207	44	53.7	29	24		800					
750		10	05			10	07	178	24		14	11	194	44		14	09	204	33		20	15	209	41		19	26	212	24		18	17	215	42		25	15		750					
700	86.9	05	-02		84.6	04	00	178	27	86.8	08	05	193	42	85.8	13	21	200	30	87.6	13	08	194	41	89.7	12	34	225	25	89.1	12	09	207	39	88.2	17	13		700					
650		00	-10			-03	-07	184	35		01	-03	193	45		07	-12	223	26		06	00	197	45		05	39	226	24		05	00	209	40		12	06		650					
600	12.5	-03	-18		12.2	-12	-16	186	37	12.5	-06	-14	200	46	12.4	03	-08	232	28	12.6	-02	-07	206	42	12.8	-02	-44	222	24	12.7	-02	-09	216	40	12.7	07	01		600					
550		-16	-26			-15	-24	190	36		-16	-22	202	48		-04	-18	244	29		-11	-17	207	40		-12	-45	234	22		-12	-18	227	35		-01	-07		550					
500	168	-25	-36		16.5	-24	-33	188	31	16.8	-27	-33	202	51	16.9	-14	-31	253	37	16.9	-20	-26	216	36	17.2	-22	-49	242	20	17.1	-20	-25		17.2	-10	-16		500						
450		-35	-45			-36	-43	192	34		-38	-44	196	48		-25	-39	257	56		-31	-38	240	37		-35	-55	251	34		-29	-35		-20	-27		450							
400	21.8	-45			21.6	-48		189	31	21.8	-50		203	49	22.0	-26	-46	255	57	22.0	-40	-49	270	41	22.2	-48		256	34	22.2	-36	-46		22.4	-32	-39		400						
350		-54				-57		195	33		-57		201	58		-47		261	58		-47		280	51		-48		246	27		-46			-47			350							
300	280	-63			27.8	-59		216	39	28.4	-60		257	52	28.4	-62		273	44	28.5	-57		247	29	28.5	-57		247	29	28.5	-62					28.7	-64		300					
250		-60				-55		218	39		-55		254	42		-55		254	42		-59		262	38		-60		245	32		-67							250						
200	36.7	-54			36.5	-52		228	30	37.1	-54		256	33	37.0	-61		257	30	37.2	-61		257	30	37.2	-61		250	27	37.1	-63							200						
170		-56				-55		225	29		-57		264	37		-59		263	31		-59		263	31		-58		248	27		-63							170						
150	42.8	-55			42.8	-54		227	22		-58		269	38		-59		270	30		-58		270	30	43.3	-58		243	25		-62							150						
130		-54				-55		230	20		-58		265	33		-62		269	23		-58		269	23		-58		236	22		-67							130						
110						-55		232	19		-58		258	32		-59		249	24		-58		230	30		-58		230	30		-65							110						
100													260	26	51.7	-58							217	24	51.7	-63												100						
90													258	27	(900)	-58							202	22														90						
80													251	36									242	22														80						
70													252	20																								70						
60																																							60					
Inversion					Inversion					Inversion					Inversion					Inversion					Inversion					Inversion					Inversion					Inversion				
585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°				
585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°				
585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°				
585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°				
585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°				
585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°				
585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°				
585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°				
585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585 mb -14° -570 mb -13°					585									

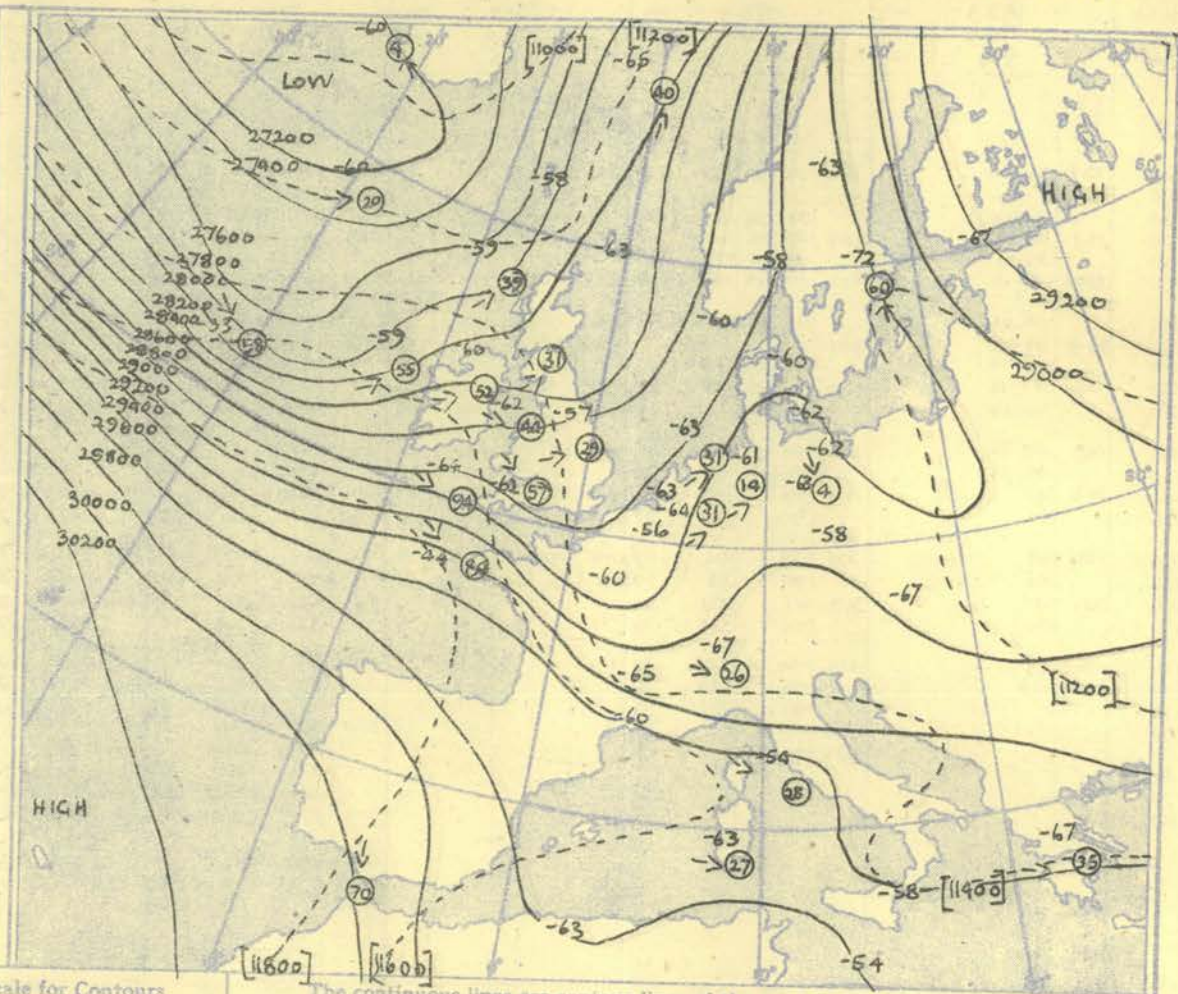
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03h G.M.T.



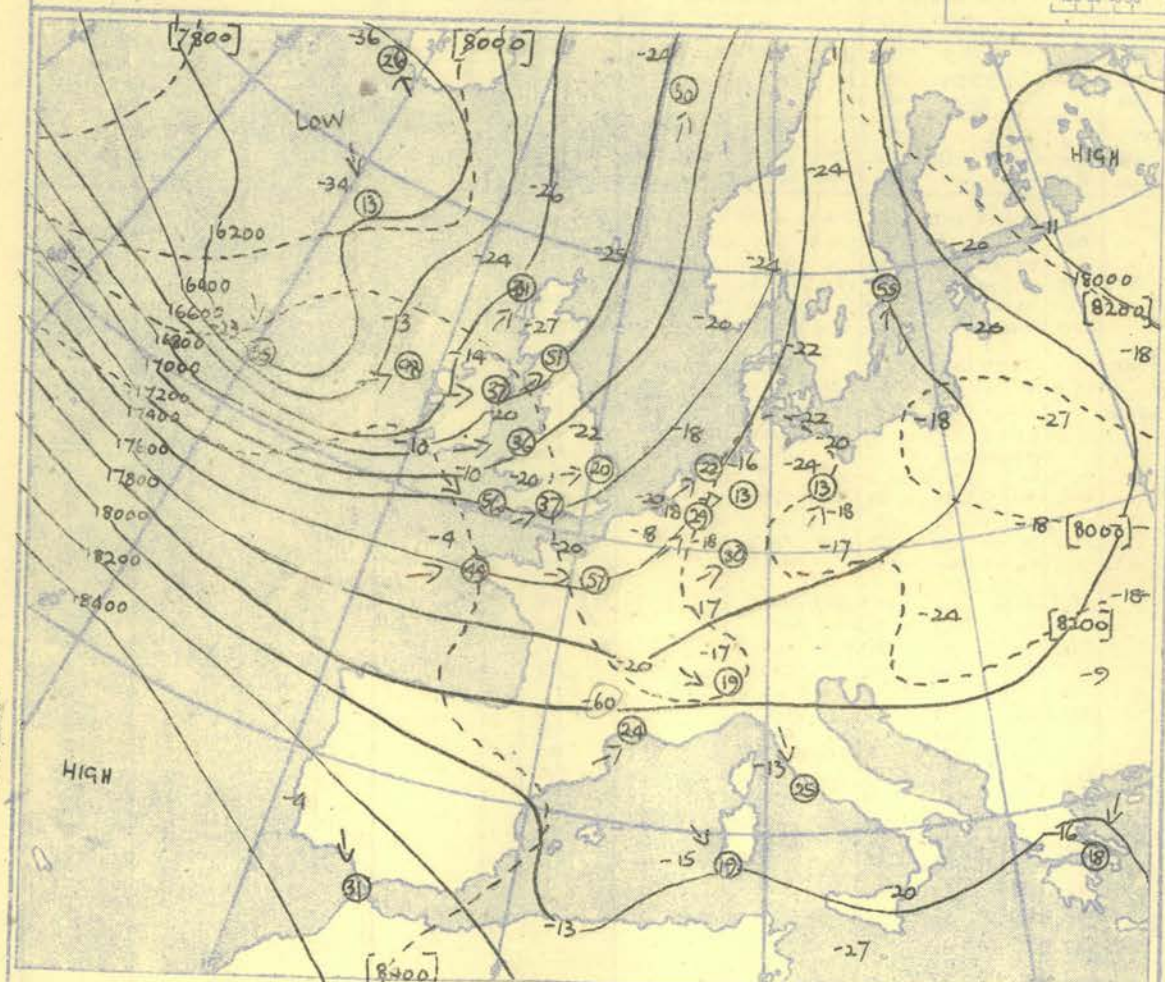
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N

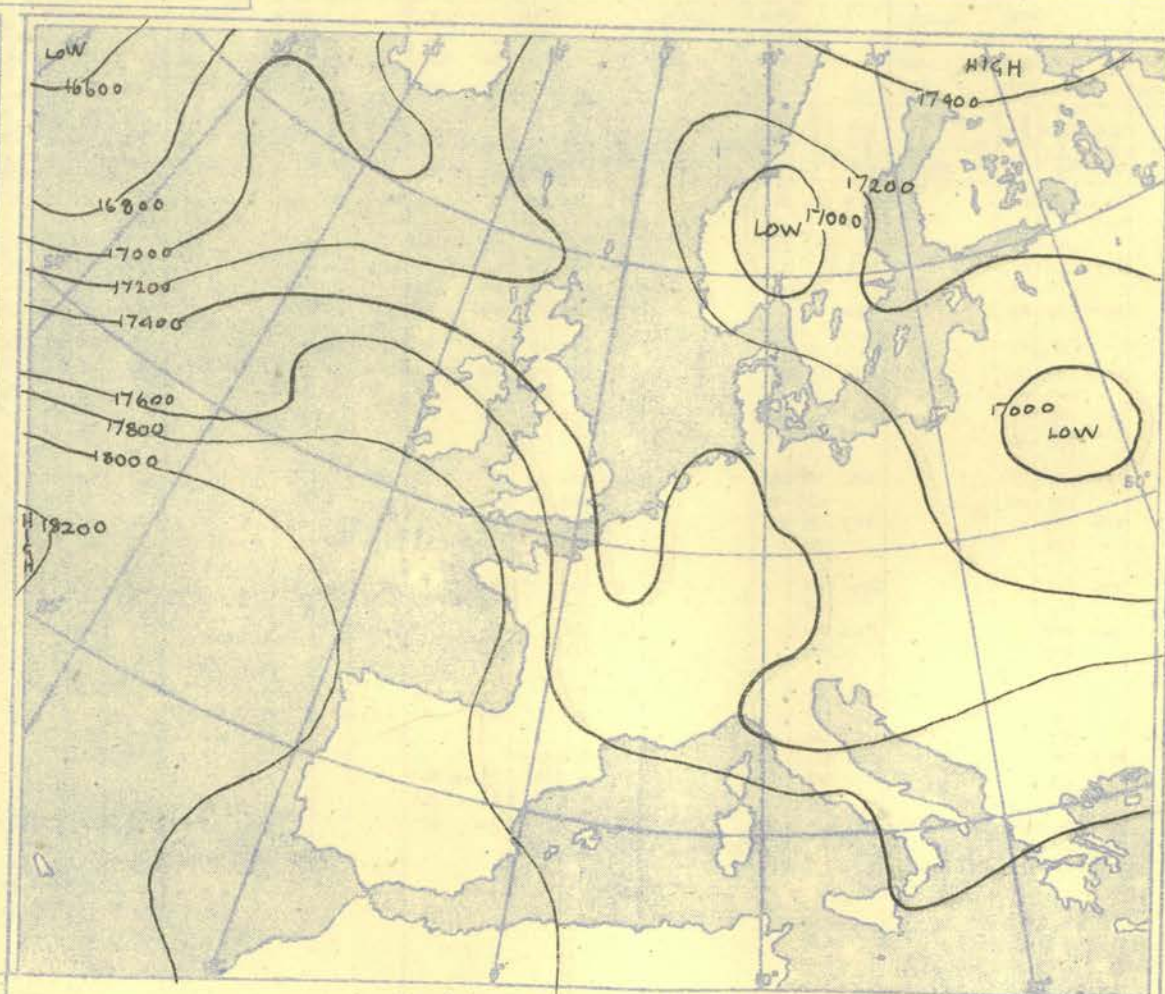
100 80 60 40 20 10 5 knots



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb.



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



Isopleths of Thickness 500-1000mb.

DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

[illegible]

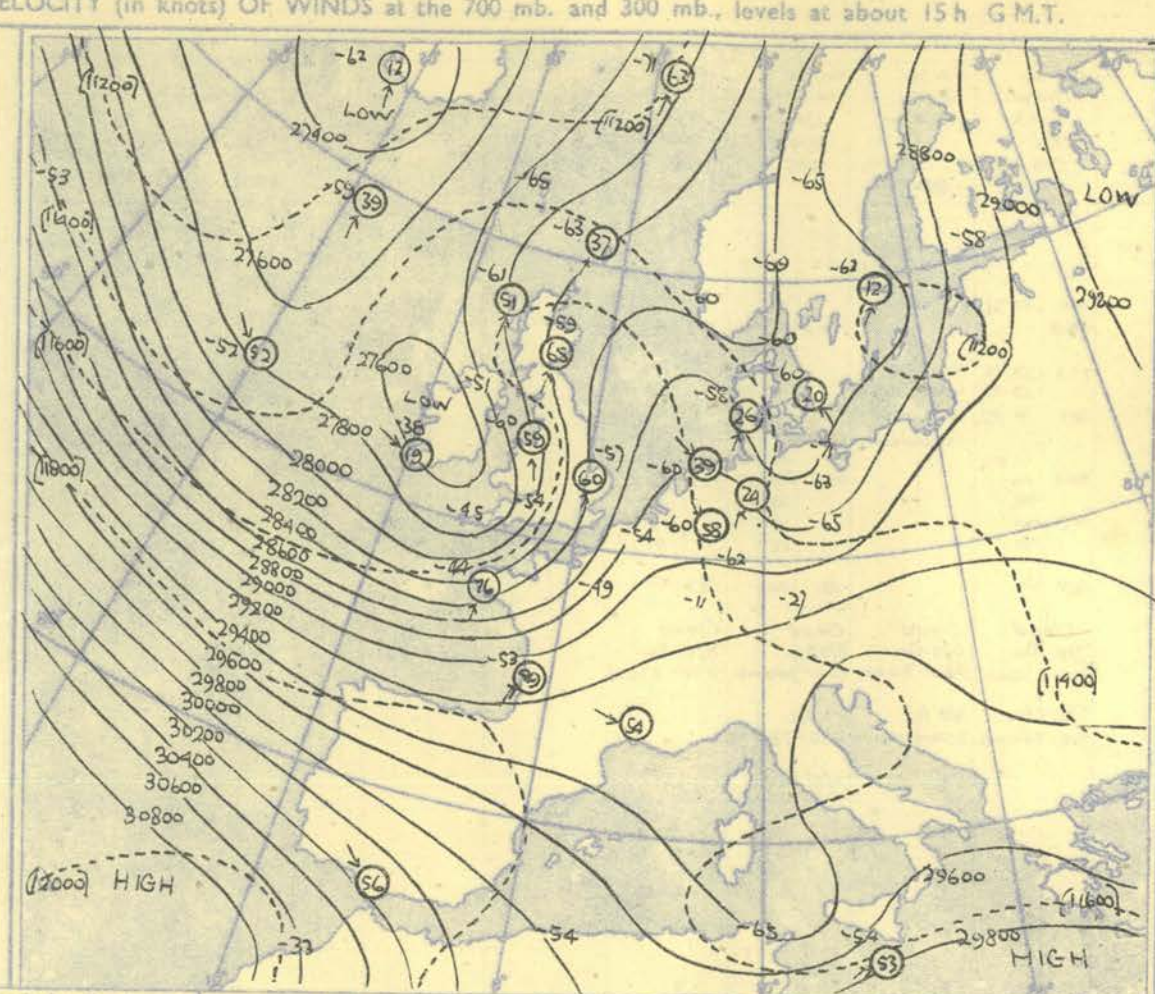
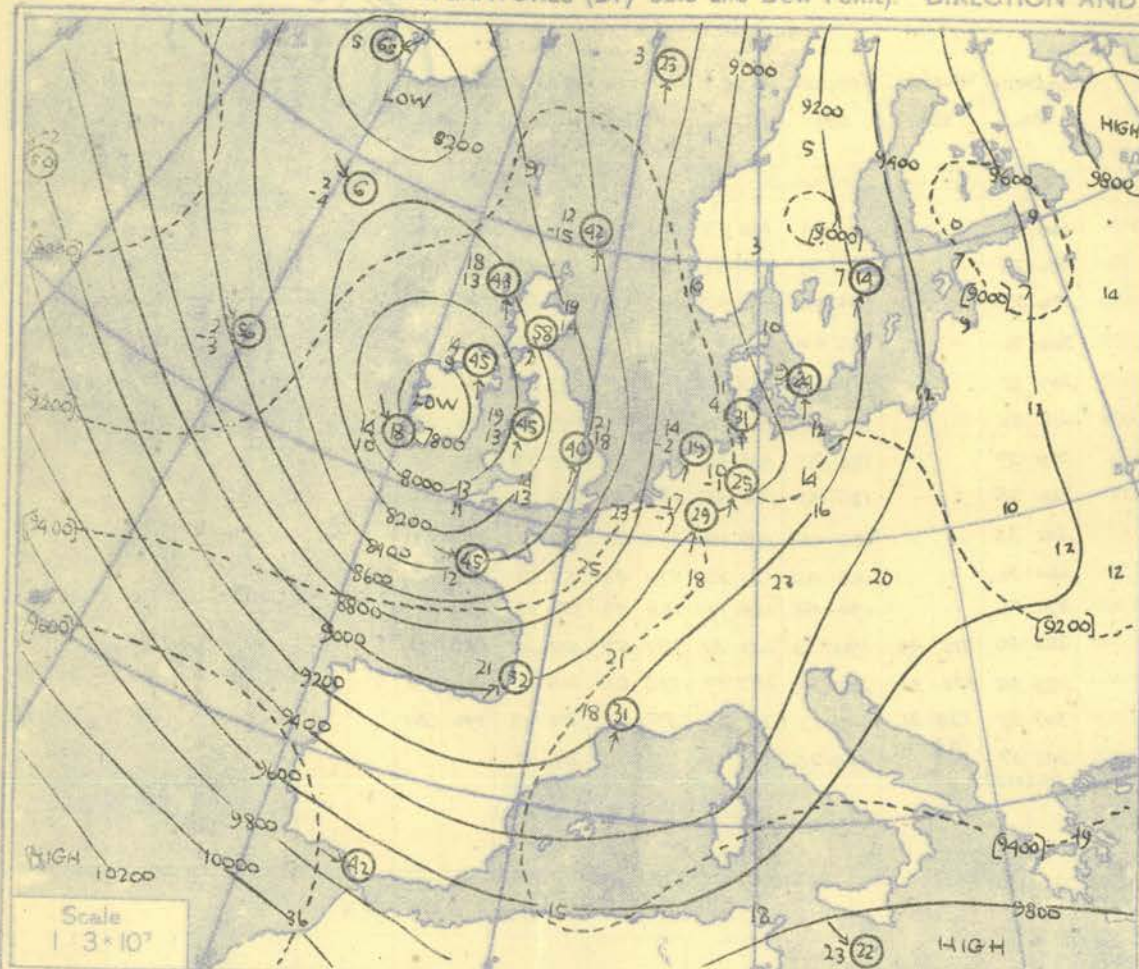
NEPHOSCOPE OBSERVATIONS

[illegible]

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

[illegible]

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15 h G.M.T.



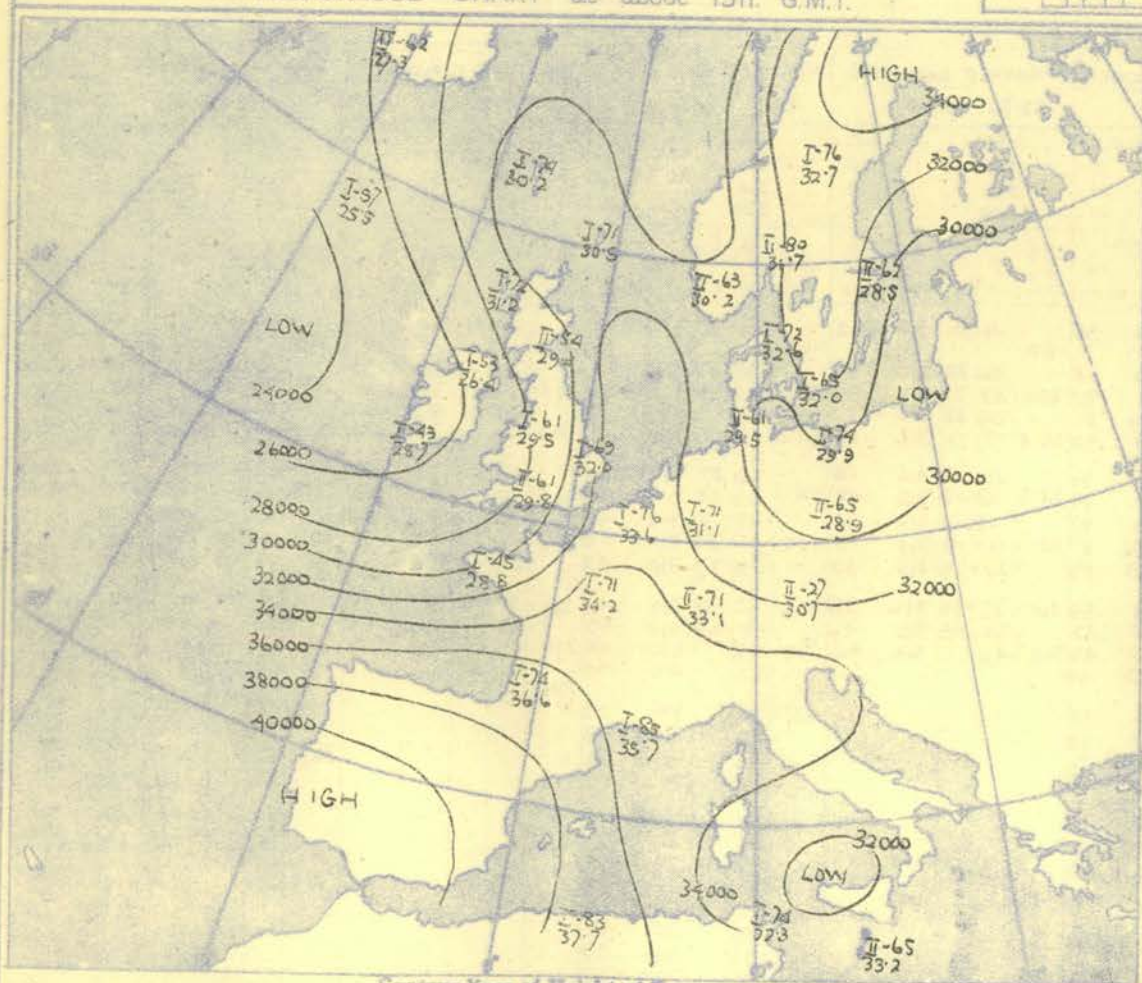
The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 700-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

100 80 60 40 20 10 knots

The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

TROPOPAUSE CHART at about 15h. G.M.T.



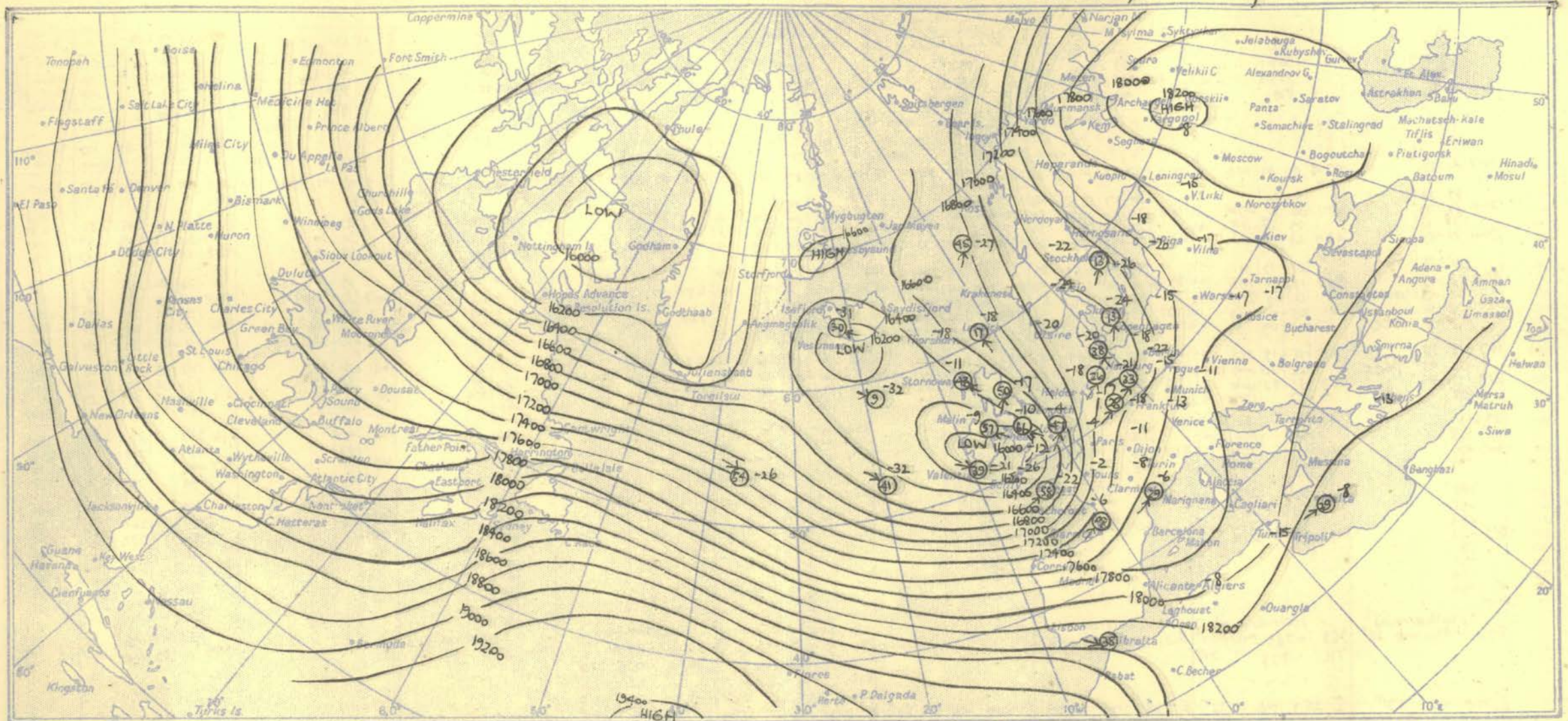
Contour lines of Height of Tropopause.
Temperature of Tropopause.

NOTES ON THE AEROLOGICAL SITUATION.

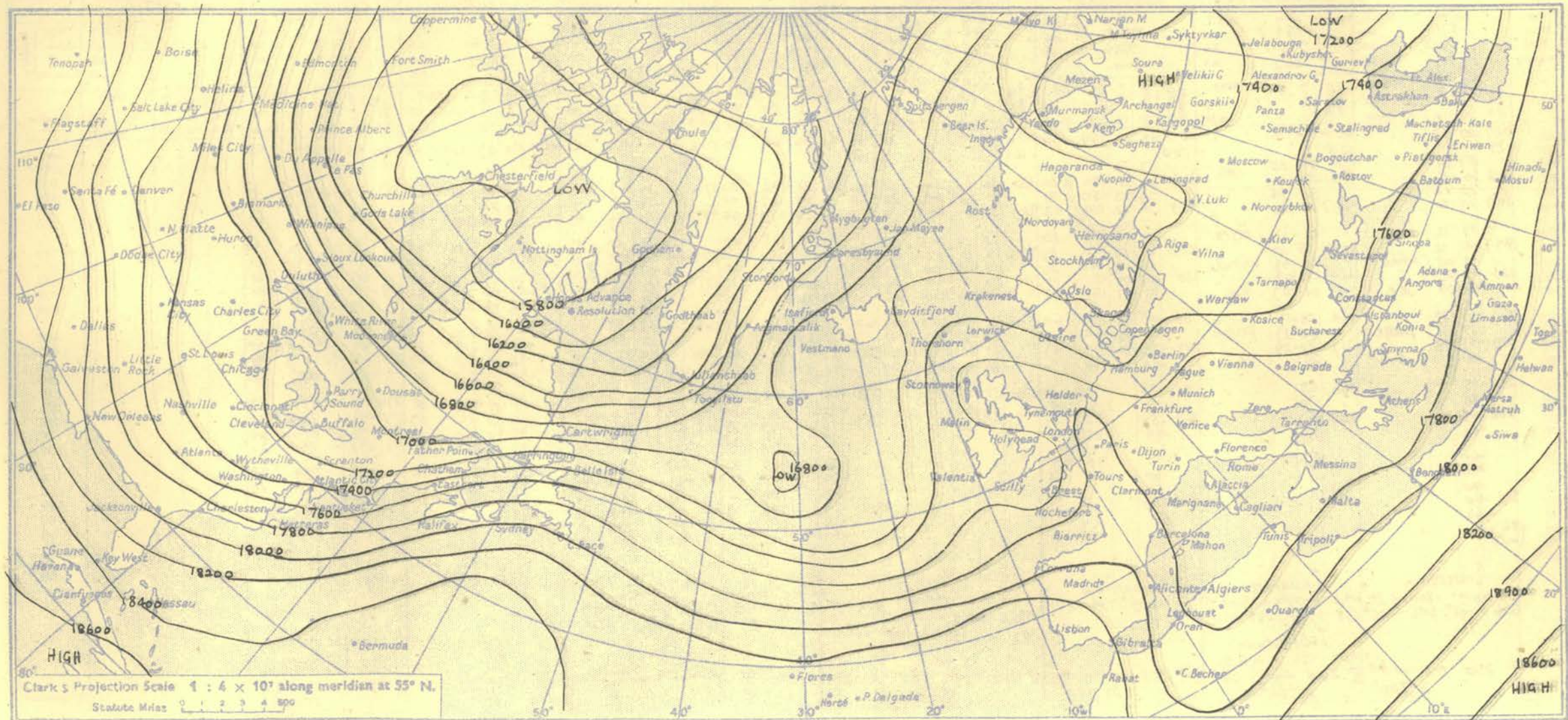
The cold trough just west of the British Isles weakened further and was finally replaced by a warmer ridge ahead of the very intense depression which had moved in over Ireland by noon. A fresh cold trough then formed at 25 degrees West.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

Meteorological Office, Air Ministry, Kingway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T.

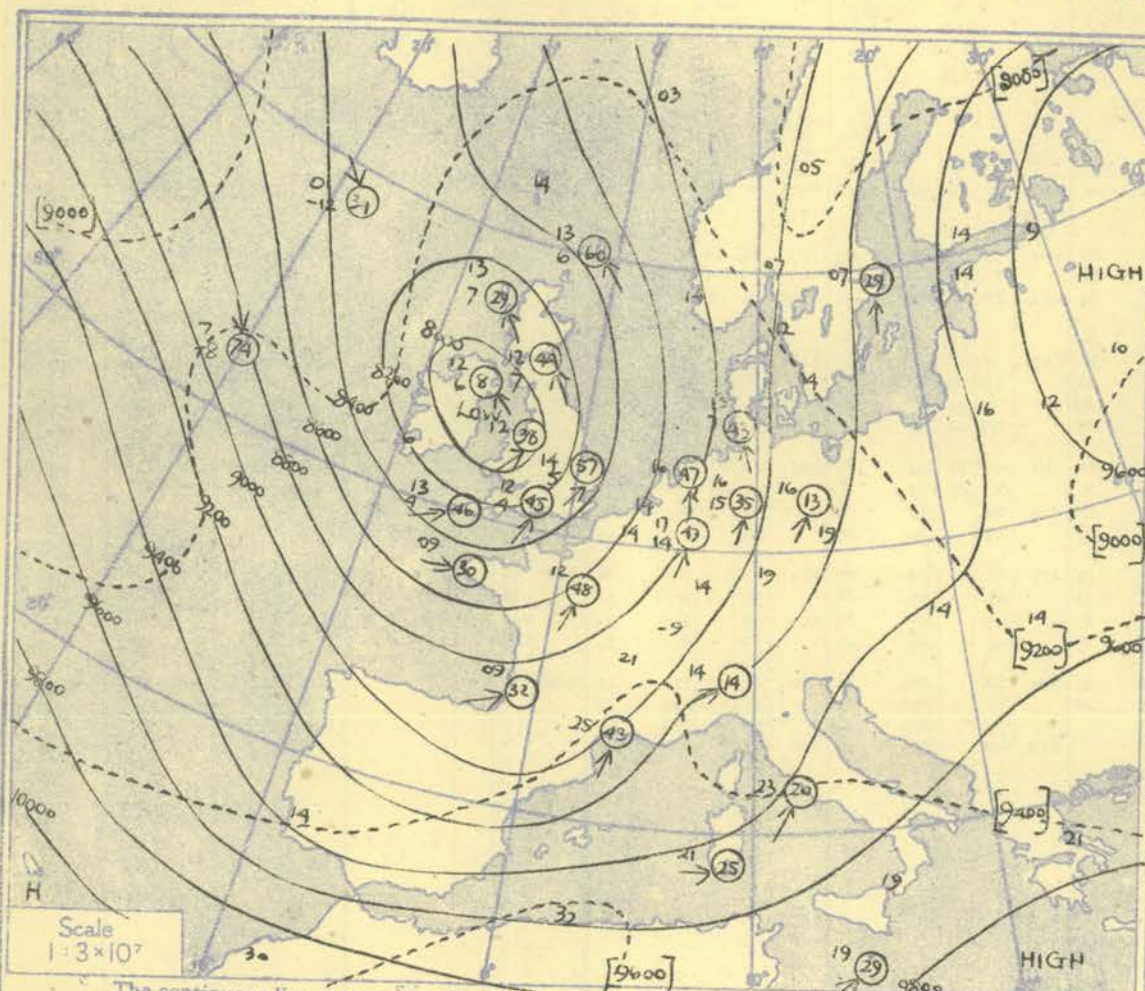


RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION	
Time	M.S.L.	15h	G.M.T.	15h	G.M.T.	15h	G.M.T.	15h	G.M.T.	15h	G.M.T.	15h	G.M.T.	15h	G.M.T.	15h	G.M.T.	15h	G.M.T.	15h	G.M.T.	15h	G.M.T.	15h	G.M.T.	15h	G.M.T.	15h	G.M.T.	Time	M.S.L.								
Pressure	Surf	974.9	mb	959.1	mb	959.2	mb	947.7	mb	952.7	mb	938.9	mb	950.7	mb	939.4	mb	959.4	mb	943.5	mb	953.7	mb	943.5	mb	944.3	mb	944.3	mb	Pressure	Surf								
Pressure	Surf	964.1	mb	957.5	mb	958.3	mb	938.9	mb	950.7	mb	938.9	mb	950.7	mb	939.4	mb	959.4	mb	943.5	mb	953.7	mb	943.5	mb	944.3	mb	944.3	mb	Pressure	Surf								
Pressure	Surf	900	mb	818	mb	786	mb	852	mb	832	mb	898	mb	840	mb	866	mb	870	mb	870	mb	870	mb	870	mb	870	mb	870	mb	Pressure	Surf								
Pressure	Surf	02.7	41	32	00.4	40	34	140	15	00.2	40	38	140	32	02.6	42	39	150	30	01.2	39	36	145	27	04.4	43	40	02.9	43	41	190	50	00.3	40	37	330	07		
Pressure	Surf	7.1	39	28	11.0	40	34	140	15	00.2	40	38	140	32	02.6	42	39	150	30	01.2	39	36	145	27	04.4	43	40	02.9	43	41	190	50	00.3	40	37	330	07		
Pressure	Surf	21.0	38	23	17.1	35	31	09.0	33	16.8	34	32	22.7	54	14.0	38	35	196	27	15.1	35	34	159	51	18.2	38	35	12.8	37	36	130	35	32	291	21				
Pressure	Surf	21.0	38	23	17.1	35	31	09.0	33	16.8	34	32	22.7	54	14.0	38	35	196	27	15.1	35	34	159	51	18.2	38	35	12.8	37	36	130	35	32	291	21				
Pressure	Surf	51.6	21	06	47.9	23	19	133	41	47.5	25	21	197	50	45.0	28	20	175	32	46.1	30	29	189	42	49.0	25	23	46.5	25	24	43.8	25	21	299	23				
Pressure	Surf	51.6	21	06	47.9	23	19	133	41	47.5	25	21	197	50	45.0	28	20	175	32	46.1	30	29	189	42	49.0	25	23	46.5	25	24	43.8	25	21	299	23				
Pressure	Surf	16	17	For	82.1	18	13	145	43	82.0	19	14	212	58	79.2	14	09	166	36	25	22	191	39	23	21	For	20	20	82.8	14	13	80.7	13	11	78.0	14	10	304	18
Pressure	Surf	16	17	For	82.1	18	13	145	43	82.0	19	14	212	58	79.2	14	09	166	36	25	22	191	39	23	21	For	20	20	82.8	14	13	80.7	13	11	78.0	14	10	304	18
Pressure	Surf	85.4	12	15	121	05	01	133	45	121	08	01	206	56	118	05	03	140	54	120	07	03	168	52	123	11	07	121	00	04	119	04	00	116	06	01	295	23	
Pressure	Surf	85.4	12	15	121	05	01	133	45	121	08	01	206	56	118	05	03	140	54	120	07	03	168	52	123	11	07	121	00	04	119	04	00	116	06	01	295	23	
Pressure	Surf	124	03	16	121	05	01	133	45	121	08	01	206	56	118	05	03	140	54	120	07	03	168	52	123	11	07	121	00	04	119	04	00	116	06	01	295	23	
Pressure	Surf	124	03	16	121	05	01	133	45	121	08	01	206	56	118	05	03	140	54	120	07	03	168	52	123	11	07	121	00	04	119	04	00	116	06	01	295	23	
Pressure	Surf	550	167	18	165	11	18	145	44	166	07	16	207	50	163	09	18	136	57	164	10	14	166	66	163	04	09	165	12	24	162	26	24	160	21	28	296	39	
Pressure	Surf	550	167	18	165	11	18	145	44	166	07	16	207	50	163	09	18	136	57	164	10	14	166	66	163	04	09	165	12	24	162	26	24	160	21	28	296	39	
Pressure	Surf	450	219	37	217	33	42	160	38	218	18	28	207	53	215	19	27	136	69	216	21	26	172	57	220	27	33	217	31	29	213	38	29	211	34	29	298	46	
Pressure	Surf	450	219	37	217	33	42	160	38	218	18	28	207	53	215	19	27	136	69	216	21	26	172	57	220	27	33	217	31	29	213	38	29	211	34	29	298	46	
Pressure	Surf	400	219	37	217	33	42	160	38	218	18	28	207	53	215	19	27	136	69	216	21	26	172	57	220	27	33	217	31	29	213	38	29	211	34	29	298	46	
Pressure	Surf	350	219	37	217	33	42	160	38	218	18	28	207	53	215	19	27	136	69	216	21	26	172	57	220	27	33	217	31	29	213	38	29	211	34	29	298	46	
Pressure	Surf	300	282	63	281	61	186	51	282	59	193	68	279	51	280	60	176	59	284	57	280	60	176	59	284	57	280	60	176	59	284	57	280	60	176	59	284	57	
Pressure	Surf	300	282	63	281	61	186	51	282	59	193	68	279	51	280	60	176	59	284	57	280	60	176	59	284	57	280	60	176	59	284	57	280	60	176	59	284	57	
Pressure	Surf	250	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	250	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	200	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	170	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	150	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	130	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	110	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	100	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	90	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	80	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	70	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	60	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	60	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	60	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	60	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	60	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	60	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	60	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	367	52	189	35	370	60	
Pressure	Surf	60	367	57	366	57	206	40	368	56	183	23	367	50	367	52	189	35	370	60	367	52	189	35	370	6													

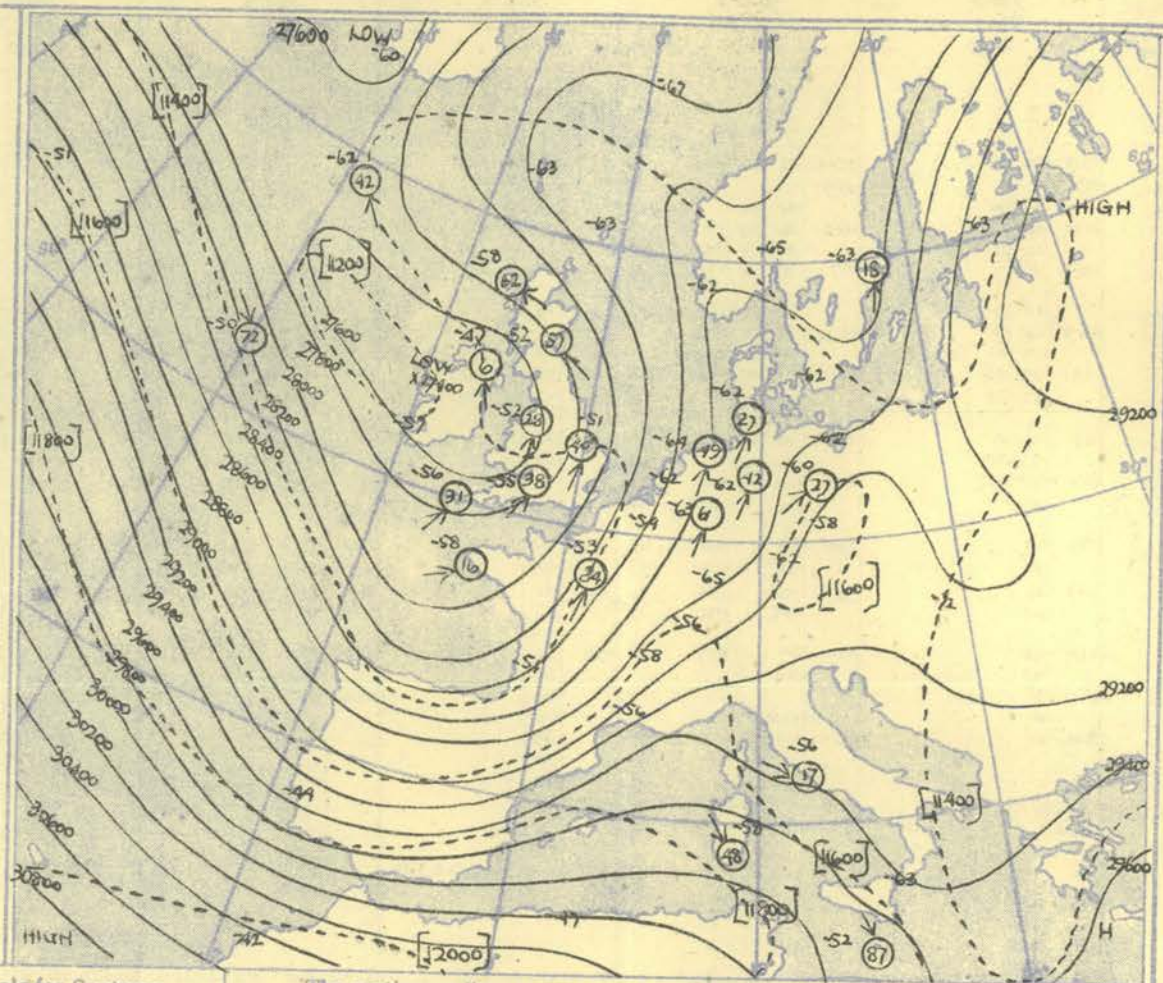
[illegible]

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h G.M.T.

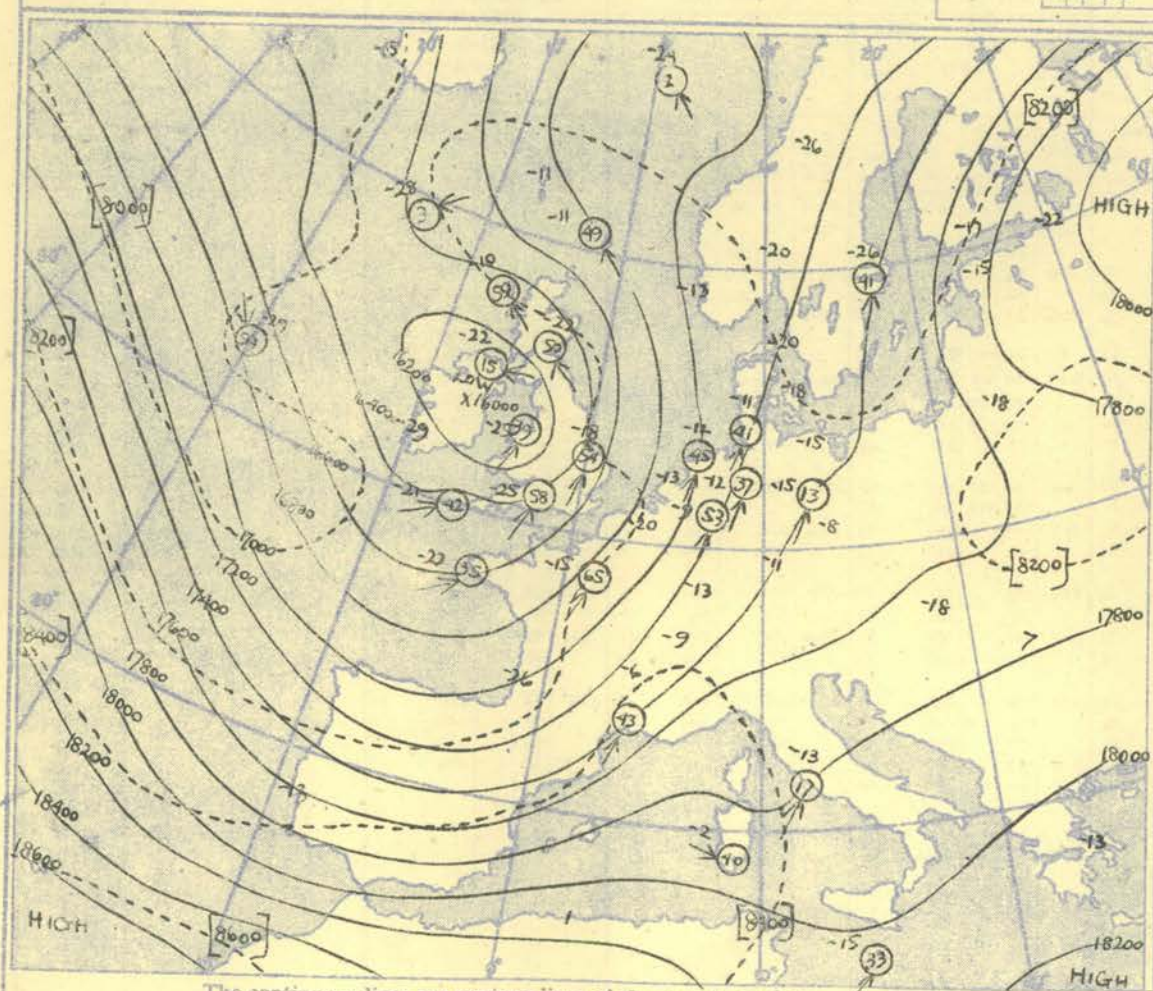


The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

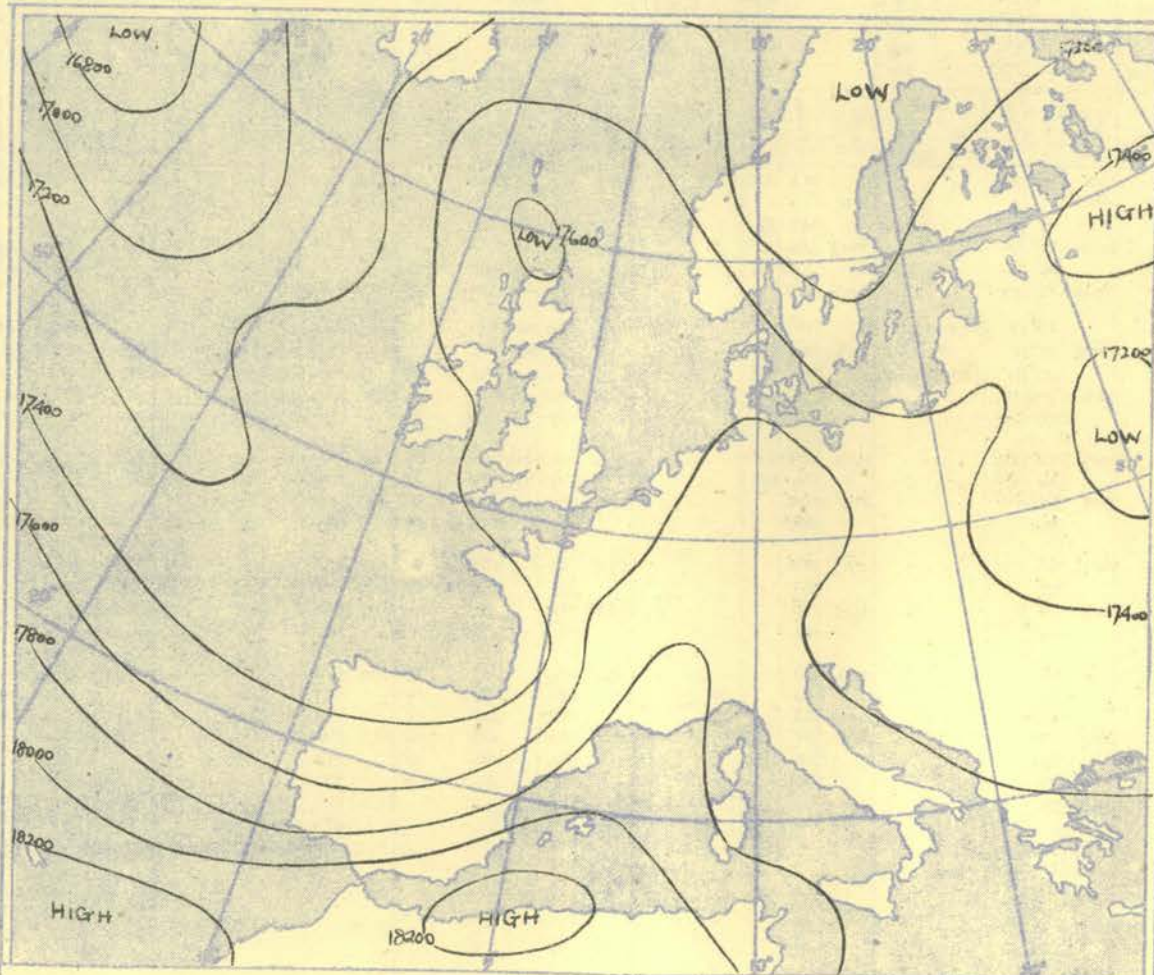
Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.
100 80 60 40 20 10 knots



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb.



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



Isopleths of Thickness 500-1000mb.

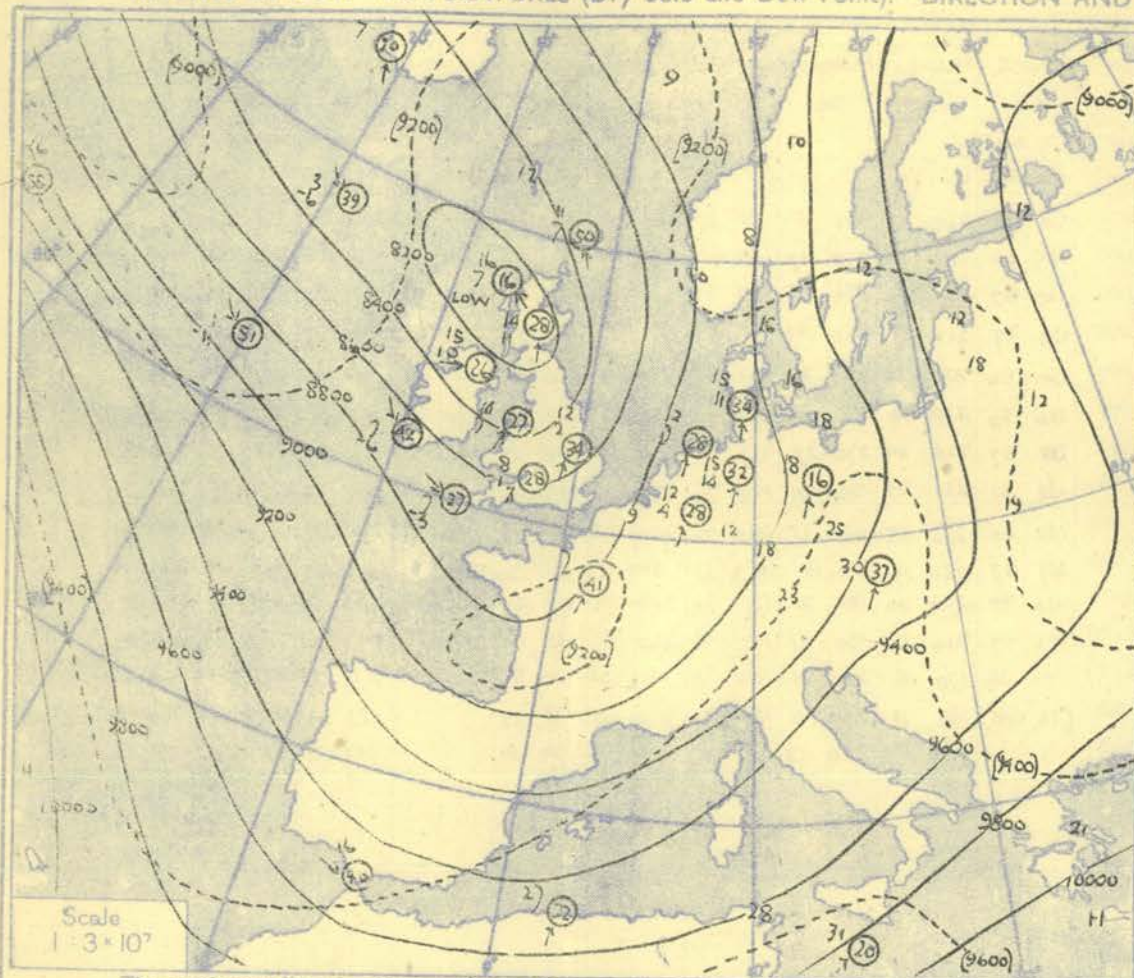
DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above MSL

[illegible]

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

[illegible]

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15h G.M.T.

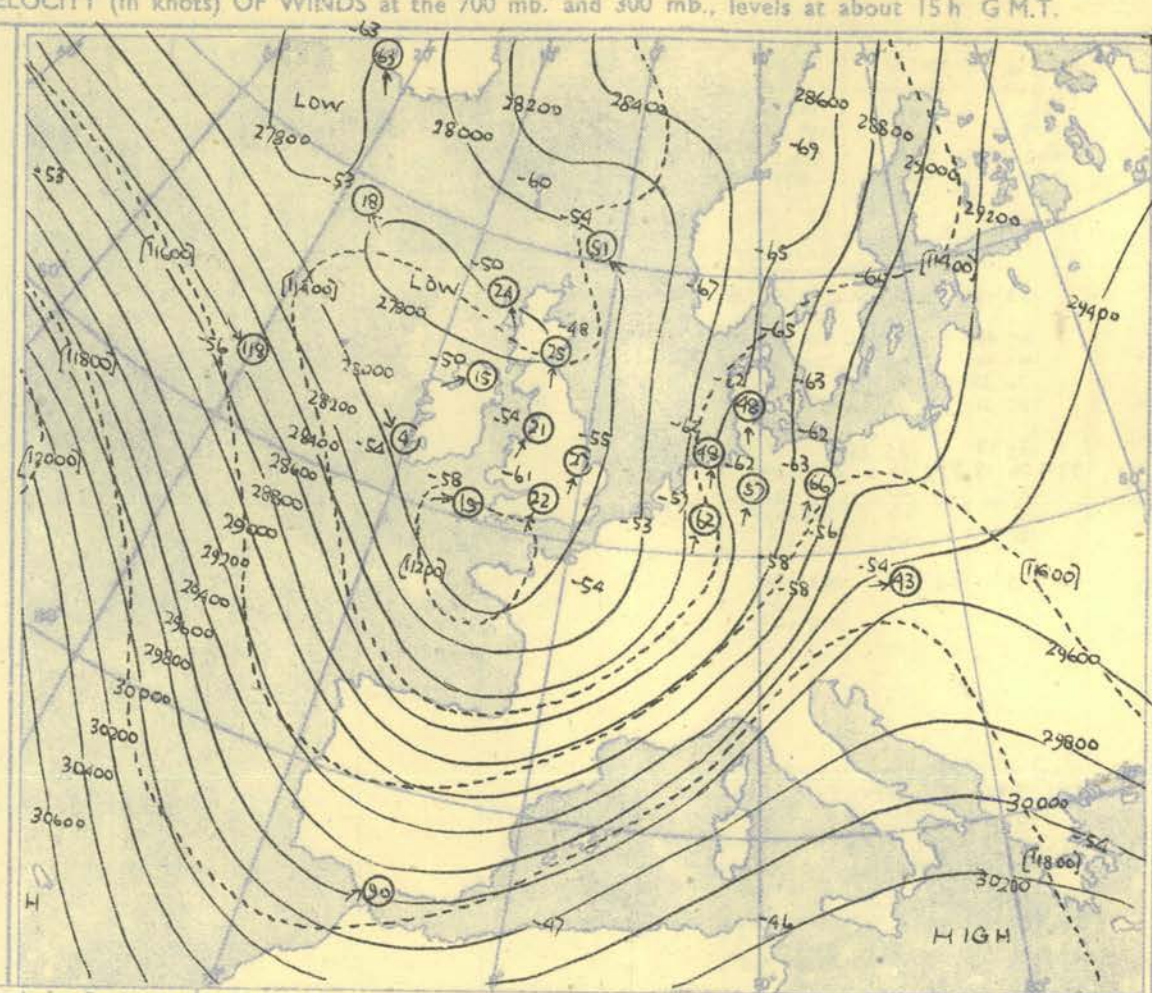


The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

TROPOPAUSE CHART at about 15h. G.M.T.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

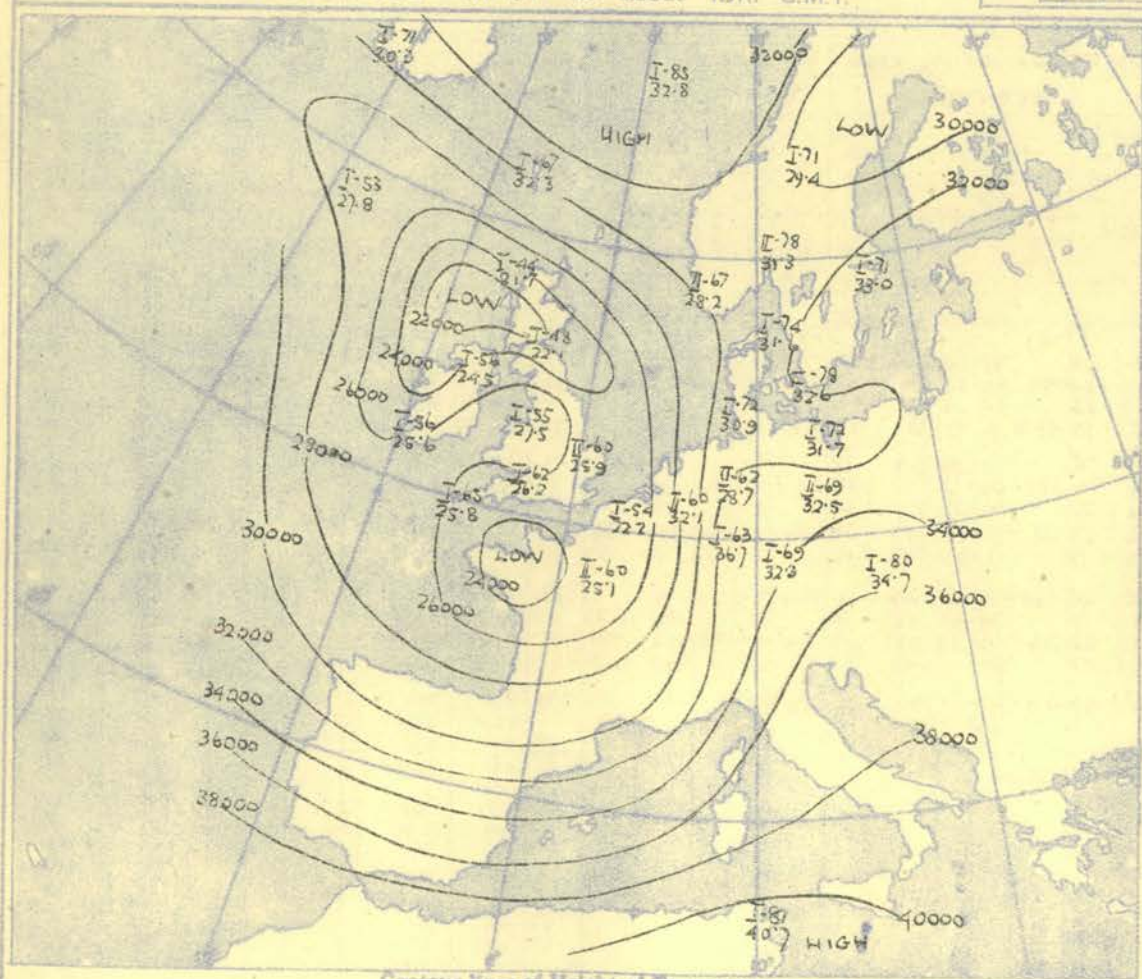
100 80 60 40 20 10 0 knots



The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 300-1000 mb.

NOTES ON THE AEROLOGICAL SITUATION.

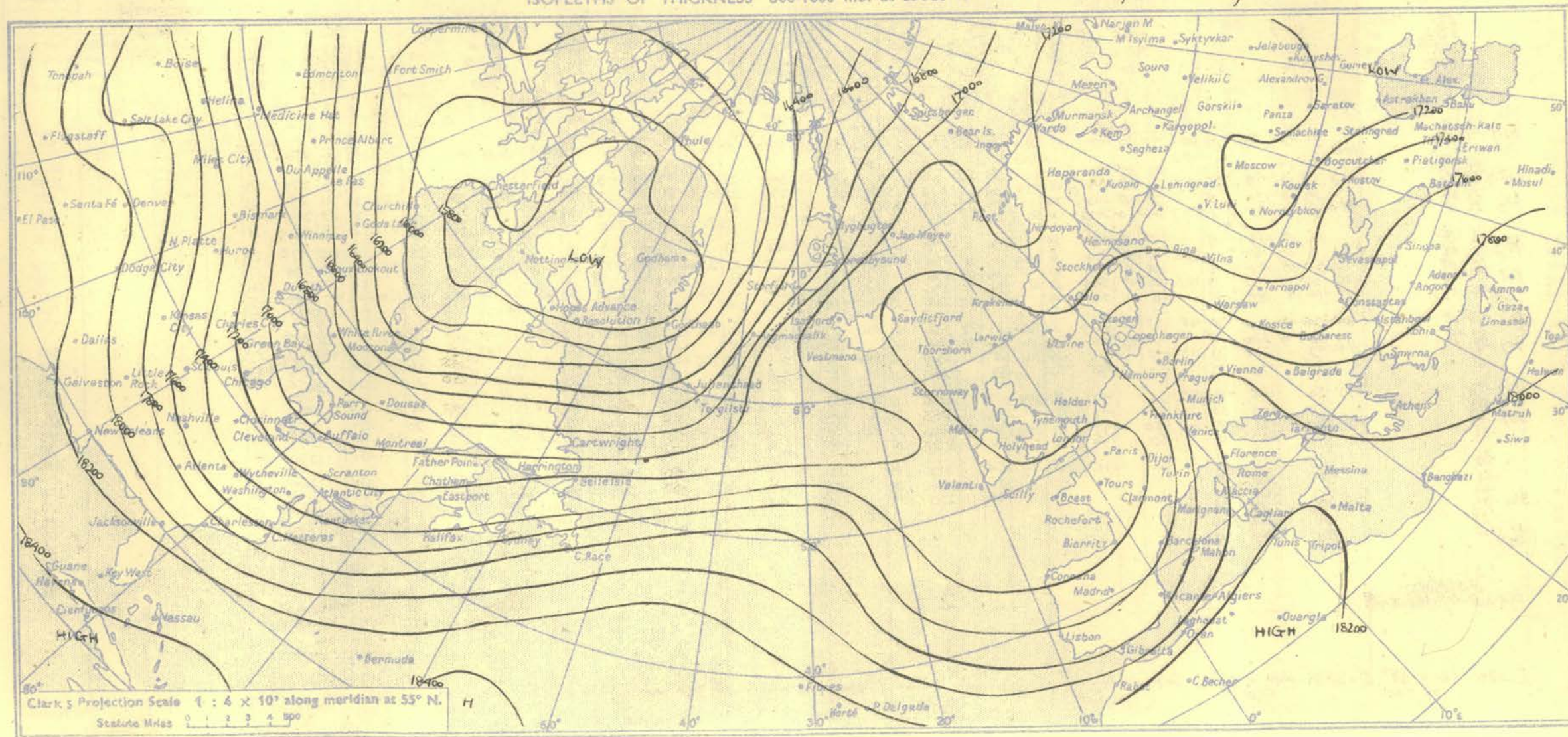
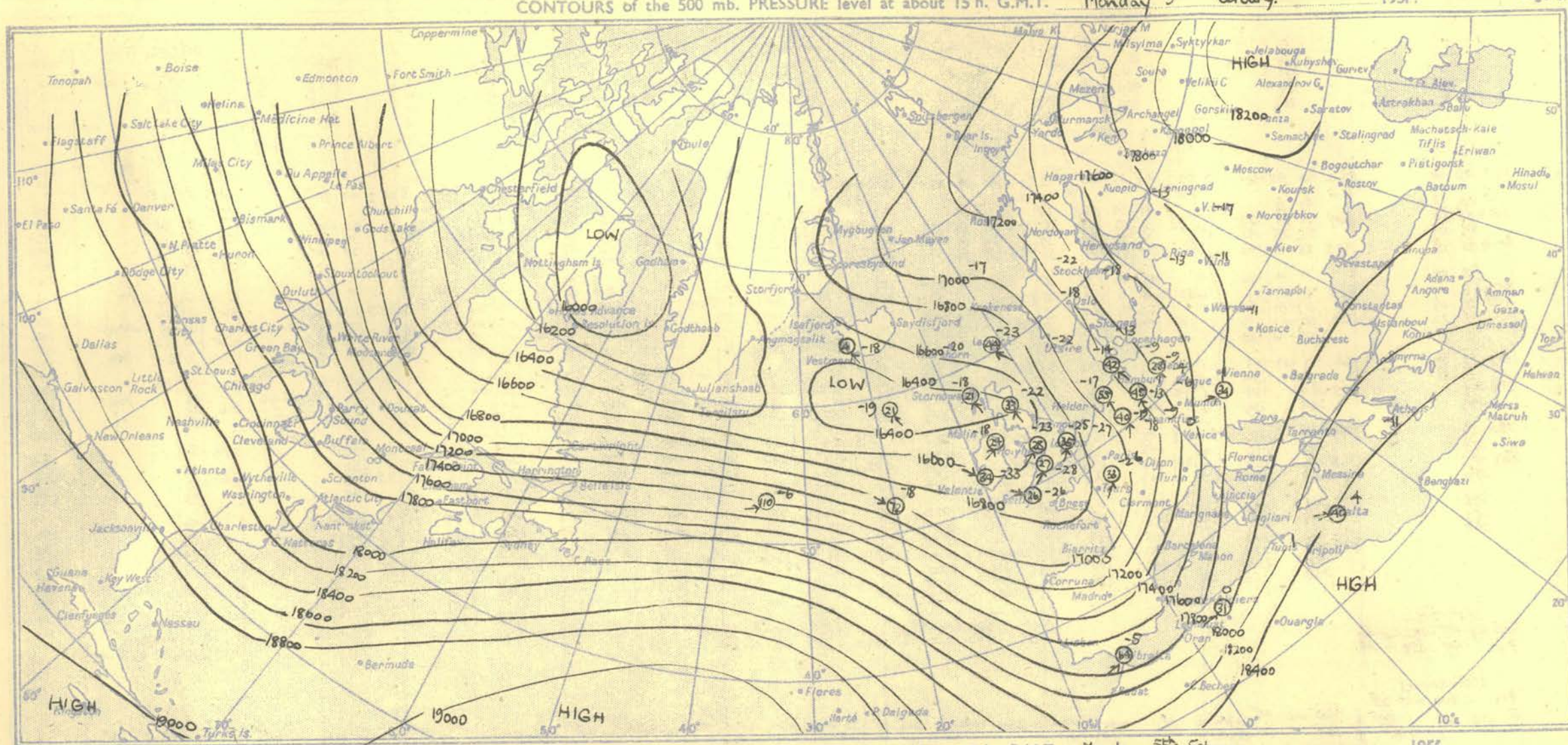
The warm ridge over France and Eastern Britain moved slowly east to Eastern Germany and cooled by occlusion. The cold trough in the Eastern Atlantic swung into France and also enveloped the British Isles with the exception of Scotland. A new warm ridge south of 55°N advanced rapidly eastward to the Central Atlantic.



Contour lines of Height of Tropopause.
Temperature of Tropopause.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.

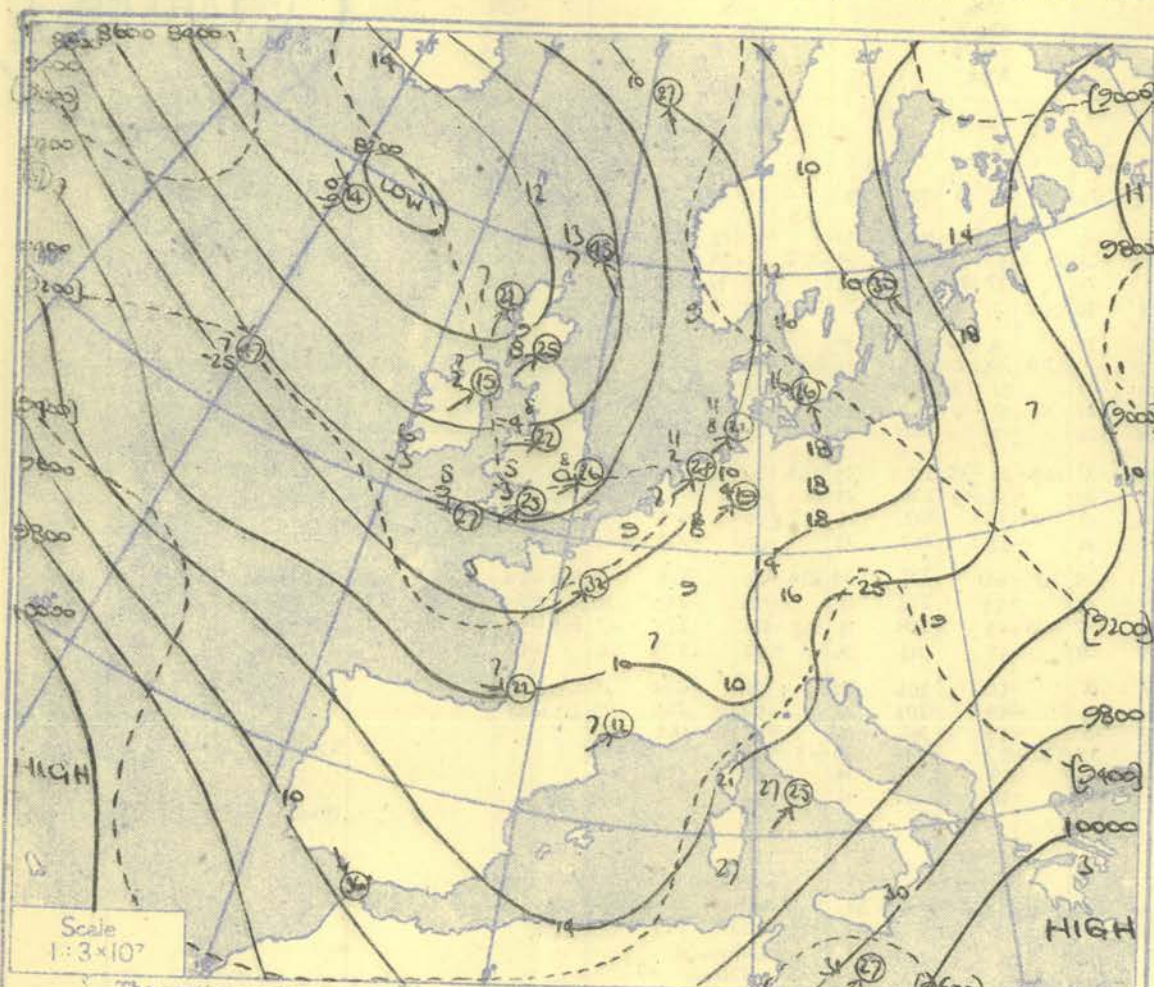


RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION			LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION	
Time M.S.L.	Surf Pressure	G.M.T.	15h		15h		15h		15h		15h		15h		15h		15h		15h		15h		15h		15h		15h		15h		15h		Time M.S.L.	Surf Pressure						
			mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb			mb					
02.7	42	70	00.4	43	41	130	12	00.2	42	35	160	12	02.6	40	39	270	20	06.6	42	37	200	15	01.2	44	38	175	16	04.4	45	34	250	15	02.9	44	31					
1000	7.7	40	11.6	42	38		-10.7	41	34	156	24	10.7	40	39	270	20	06.6	42	37	200	15	01.2	44	38	175	16	04.4	45	34	250	15	02.9	44	31						
950	20.3	35	16.7	36	33	153	18	17.3	36	31	167	33	17.4	35	34	273	22	19.0	35	32	209	24	21.2	36	31	207	30	21.4	35	27	232	24	22.1	35	25					
900	29.2	29	25.5	31	25	148	15	25.5	30	27	176	39	25.5	30	29	276	21	29.0	29	25	243	24	29.2	30	27	207	32	29.2	27	20	236	26	28.1	28	20					
850	36.6	25	47.5	25	18	142	12	48.1	24	23	181	30	48.3	25	24	274	26	49.8	23	22	247	30	52.0	25	19	224	38	52.0	21	16	243	28	52.7	21	12					
800																																								
750	44.6	18	81.8	16	07	131	14	82.3	14	11	172	28	82.4	15	10	270	26	83.7	11	07	249	27	85.9	12	02	229	34	85.8	08	01	235	28	86.5	07	03					
700	51.2	07	87.0	07	01	124	18	87.0	07	01	164	27	87.0	08	00	268	26	88.7	06	01	241	25	90.4	04	11	223	33	90.2	02	10	235	29	90.0	00	11					
650	58.0	00	92.0	00	00	117	17	92.0	00	00	164	35	92.0	02	07	260	24	93.2	03	08	243	25	95.2	04	11	223	33	95.0	02	10	235	29	95.0	00	11					
600	64.6	11	97.0	11	16	138	15	97.0	11	17	172	31	97.0	12	17	253	24	98.2	12	18	247	25	100.2	13	21	212	34	100.0	11	21	231	27	100.0	09	21					
550	71.2	18	104.0	18	21	146	21	104.0	18	21	172	33	104.0	18	21	248	24	105.2	18	21	249	25	107.2	19	24	213	35	107.0	17	24	231	27	107.0	15	24					
500	78.0	23	111.0	23	21	154	21	111.0	23	21	179	33	111.0	23	21	249	24	112.2	23	21	249	25	114.2	24	27	213	35	114.0	22	27	231	27	114.0	20	27					
450	84.6	28	118.0	28	21	162	21	118.0	28	21	187	33	118.0	28	21	249	24	119.2	28	21	249	25	121.2	29	30	213	35	121.0	27	30	231	27	121.0	25	30					
400	91.2	33	125.0	33	21	170	21	125.0	33	21	197	33	125.0	33	21	249	24	126.2	33	21	249	25	128.2	34	31	213	35	128.0	32	31	231	27	128.0	30	31					
350	97.8	38	132.0	38	21	178	21	132.0	38	21	205	33	132.0	38	21	249	24	133.2	38	21	249	25	135.2	39	32	213	35	135.0	37	32	231	27	135.0	35	32					
300	104.4	43	139.0	43	21	186	21	139.0	43	21	213	33	139.0	43	21	249	24	140.2	43	21	249	25	142.2	44	33	213	35	142.0	42	33	231	27	142.0	40	33					
250	111.0	48	146.0	48	21	194	21	146.0	48	21	221	33	146.0	48	21	249	24	147.2	48	21	249	25	149.2	45	34	213	35	149.0	47	34	231	27	149.0	45	34					
200	117.6	53	153.0	53	21	202	21	153.0	53	21	229	33	153.0	53	21	249	24	154.2	53	21	249	25	156.2	46	35	213	35	156.0	49	35	231	27	156.0	47	35					
150	124.2	58	160.0	58	21	210	21	160.0	58	21	237	33	160.0	58	21	249	24	161.2	58	21	249	25	163.2	47	36	213	35	163.0	50	36	231	27	163.0	48	36					
130	130.8	63	167.0	63	21	218	21	167.0	63	21	245	33	167.0	63	21	249	24	168.2	63	21	249	25	170.2	48	37	213	35	170.0	51	37	231	27	170.0	49	37					
110	137.4	68	174.0	68	21	226	21	174.0	68	21	253	33	174.0	68	21	249	24	175.2	68	21	249	25	177.2	49	38	213	35	177.0	52	38	231	27	177.0	50	38					
90	144.0	73	181.0	73	21	234	21	181.0	73	21	261	33	181.0	73	21	249	24	182.2	73	21	249	25	184.2	50	39	213	35	184.0	53	39	231	27	184.0	51	39					
70	150.6	78	188.0	78	21	242	21	188.0	78	21	269	33	188.0	78	21	249	24	189.2	78	21	249	25	191.2	51	40	213	35	191.0	54	40	231	27	191.0	52	40					
50	157.2	83	195.0	83	21	250	21	195.0	83	21	277	33	195.0	83	21	249	24	196.2	83	21	249	25	198.2	52	41	213	35	198.0	55	41	231	27	198.0	53	41					
30	163.8	88	202.0	88	21	258	21	202.0	88	21	285	33	202.0	88	21	249	24	203.2	88	21	249	25	205.2	53	42	213	35	205.0	56	42	231	27	205.0	54	42					
10	170.4	93	209.0	93	21	266	21	209.0	93	21	293	33	209.0	93	21	249	24	210.2	93	21	249	25	212.2	54	43	213	35	212.0	57	43	231	27	212.0	55	43					
Surf	02.7	41	39	10.6	41	39	180	05	00.2	40	36	160	07	02.6	36	34	250	20	06.6	40	35	230	15	01.2	37	34	170	15	04.4	35	33	240								

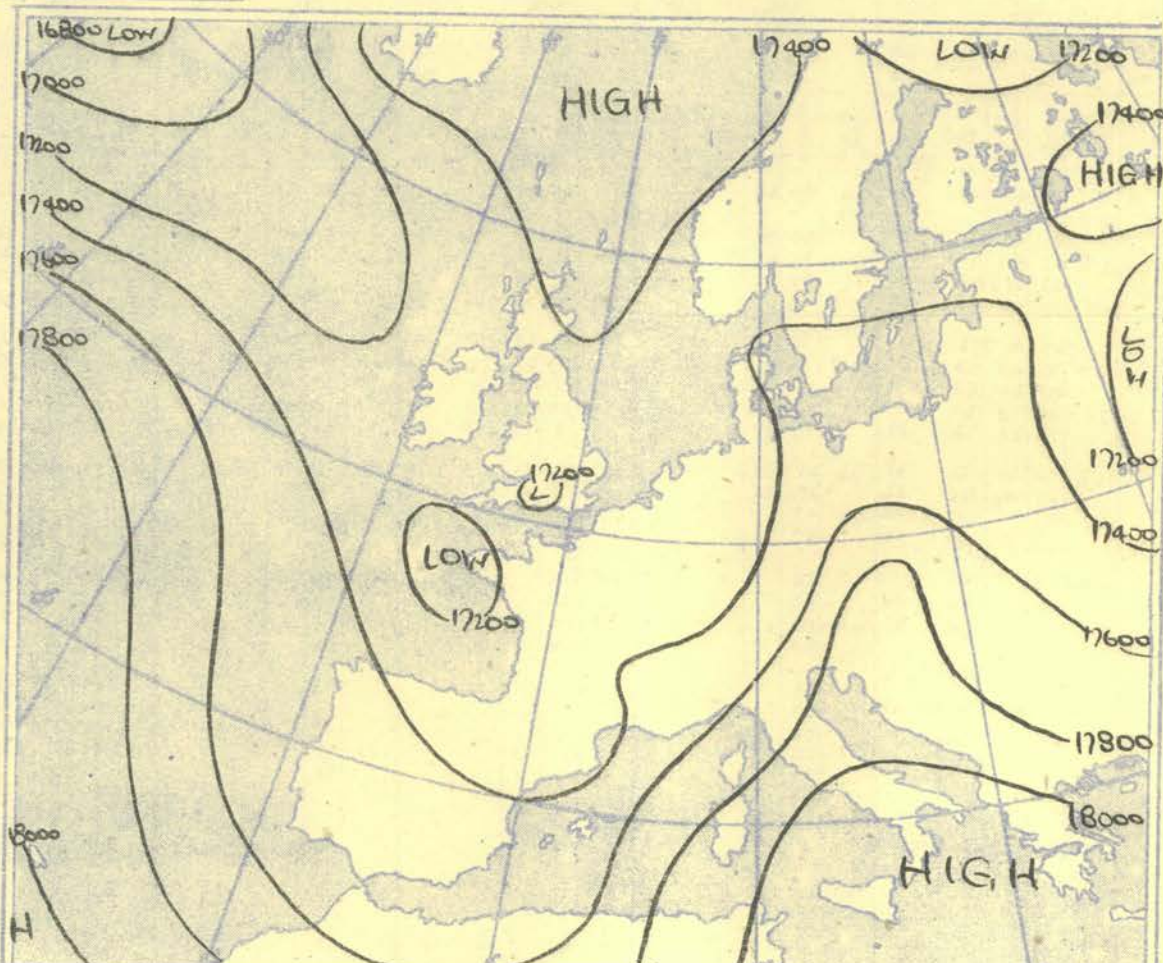
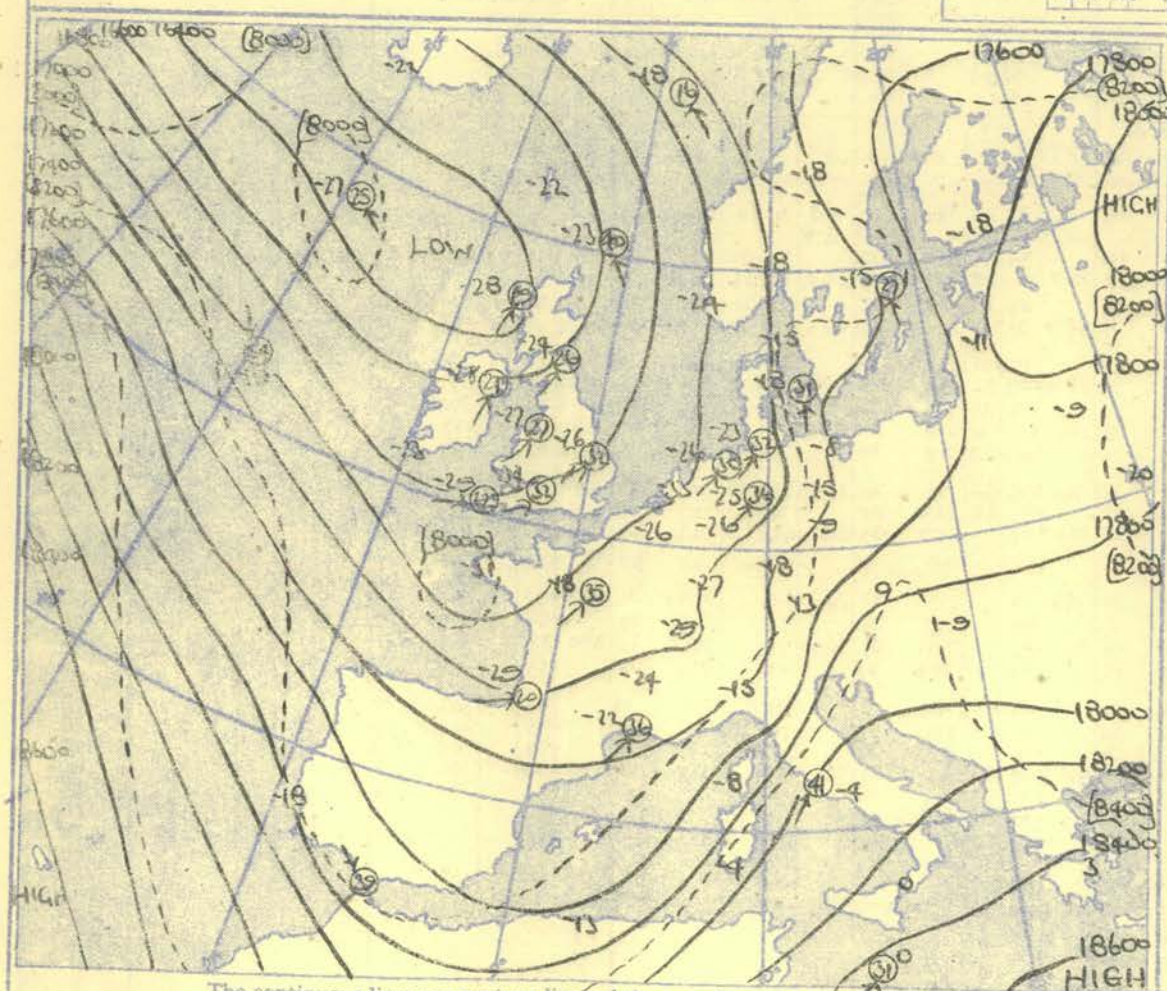
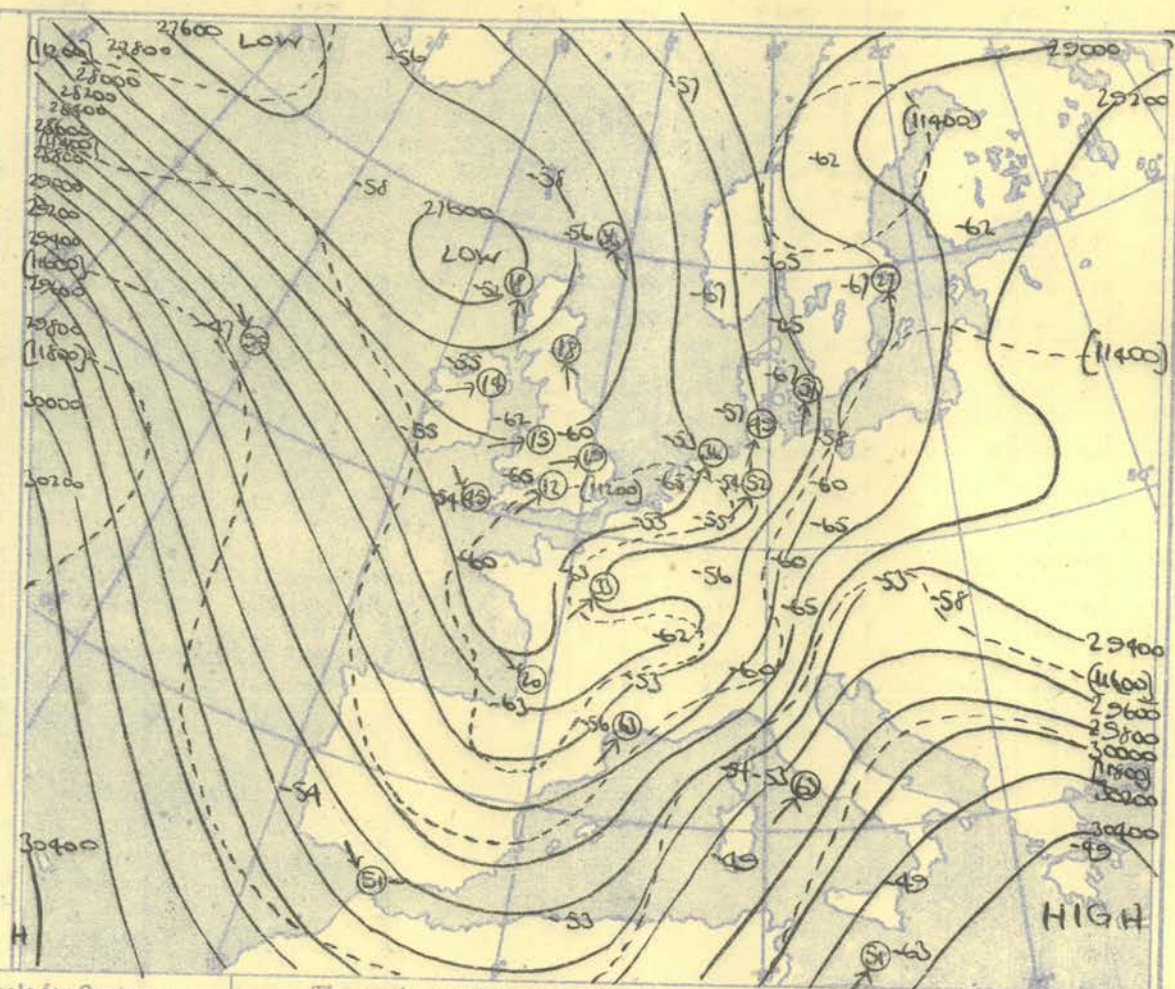
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)																																														
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION												
Pressure	Time M.S.L.	O3L		G.M.T.		O3L		G.M.T.		O3L		G.M.T.		O3L		G.M.T.		O3L		G.M.T.		O3L		G.M.T.		O3L		G.M.T.		Time M.S.L.	Pressure															
		Surf	Freezing	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb			mb	mb													
Surf	2.7	41	41			0.4	41	38	180	12	0.2	39	36	220	20	2.6	35	34			0.6	36	33	180	05	1.2	35	32	175	09	4.4	32	30	230	07	2.9	40	30	270	15	0.3	38	31	300	13	Surf
1000	-7.2					9.7				-7.9				-6.6							-5.8					-4.6																			1000	
950		40	39			39	36	168	23	37	33			34	33			36	32	232	15	37	32	210	21	37	32	210	21	36	33	241	15	38	29	274	31	-4.6	35	29	297	19	950			
900	20.9	35	31			18.4	31	30	177	25	20.1	33	30	21.2	31	30		22.1	31	27	252	21	23.3	33	24	242	22	25.5	32	28	240	18	24.1	31	24	277	21	23.2	29	24	292	26	900			
850		30	26			25	24	192	22	30	27			25	24			25	21	251	21	27	20	238	22	25	24	237	20	25	20	276	24	25	20	274	24	23	18	24			850			
800	51.6	24	19			49.0	20	19	194	25	51.0	25	20	For	51.7	18	17		For	52.5	20	14	264	20	54.0	21	15	234	21	53.9	19	18	241	20	54.5	18	08	272	24	53.7	19	11		800		
750		19	14			15	11	194	24	16	14			11	08			14	05	246	20	16	06	226	25	12	05	243	27	11	02	269	24	11	02	269	24	13	03			750				
700	85.7	13	07			82.8	07	01	190	22	84.9	09	08	Winds	85.4	07	02		Winds	86.3	08	04	243	21	87.8	08	00	229	26	87.5	05	03	243	26	88.0	05	09	271	27	87.3	06	03		700		
650		06	02			00	07	187	22	02	01			02	06			00	07	239	22	01	08	231	27	03	12	241	27	03	12	241	27	03	12	241	27	03	12	241		650				
600	124	02	12			121	08	13	189	23	123	06	11	See	123	07	17		See	124	08	16	236	24	126	07	16	231	28	125	11	20	237	29	126	11	25	263	29	125	09	20		600		
550		12	22			17	21	194	21	15	19			17	30			18	29	228	26	15	24	220	31	15	24	220	31	15	24	220	31	15	24	220	31	15	24	220		550				
500	167	23	33			164	28	34	204	19	166	24	29	3	166	28	42		3	167	27	36	218	27	169	26	35	217	32	168	29	43	234	32	168	29	49	262	22	168	23	38		500		
450		34	44			34	41			35	44			35	49			36	43	221	29	36	43	221	29	36	43	221	29	36	43	221	29	36	43	221	29	36	43	221		450				
400	218	47				213	53			217	47			217	42			218	45	234	18	219	48	227	26	217	50	219	32	219	45	219	32	219	45	219	32	219	45	219	32	219	45	400		
350		56				53				52				52				57		241	14	58		227	23	56		223	21	51		303	45										350			
300	280	56				276	52			279	55			280	62			280	62	236	15	281	60	227	19	279	65	228	12	281	65	228	12	281	65	228	12	281	65	228	12	300				
250		51				50				55				55				56		231	15	55		206	18	58		259	20	54		298	32									250				
200	368	55				364	50			367	47			367	51			367	51	216	17	369	49	208	19	365	53	222	17	369	52	297	28	370	55								200			
170		51				54				53				53				51		219	21	47		213	26	52		205	18	53		302	23									170				
150		55				52				52				52				52		216	18	50		206	25	55		220	25	53												150				
130		55				52				55				53				53		216	19	49		202	23	54		228	22	54												130				
110		53				52				53				53				53		219	10	55		203	16	58		189	13	58												110				
100						53				52				52				56		202	17	57		205	29	515	63	191	15	58												100				
90										52				52				59		194	16	59		217	18	63		204	14	64												90				
80										51				60				62				60		199	16	64		202	15	64												80				
70																																												70		
60																																												60		
Tropopause		I 360 mb -56° 24.700°				I 381 mb -56° 22.300°				NR.				I 319 mb -59° 26.800°				I 330 mb -63° 25.800°				I 334 mb -61° 25.700°				I 322 mb -68° 26.300°				I 331 mb -53° 26.000°				I 313 mb -57° 27.300°				Tropopause								
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION												
Pressure	Time M.S.L.	O3L		G.M.T.		O3L		G.M.T.		O3L		G.M.T.		O3L		G.M.T.		O3L		G.M.T.		O3L		G.M.T.		O3L		G.M.T.		O3L		G.M.T.		Time M.S.L.	Pressure											
		Surf	Freezing	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb																					

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03h G.M.T.



Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. $52\frac{1}{2}^\circ$ N.

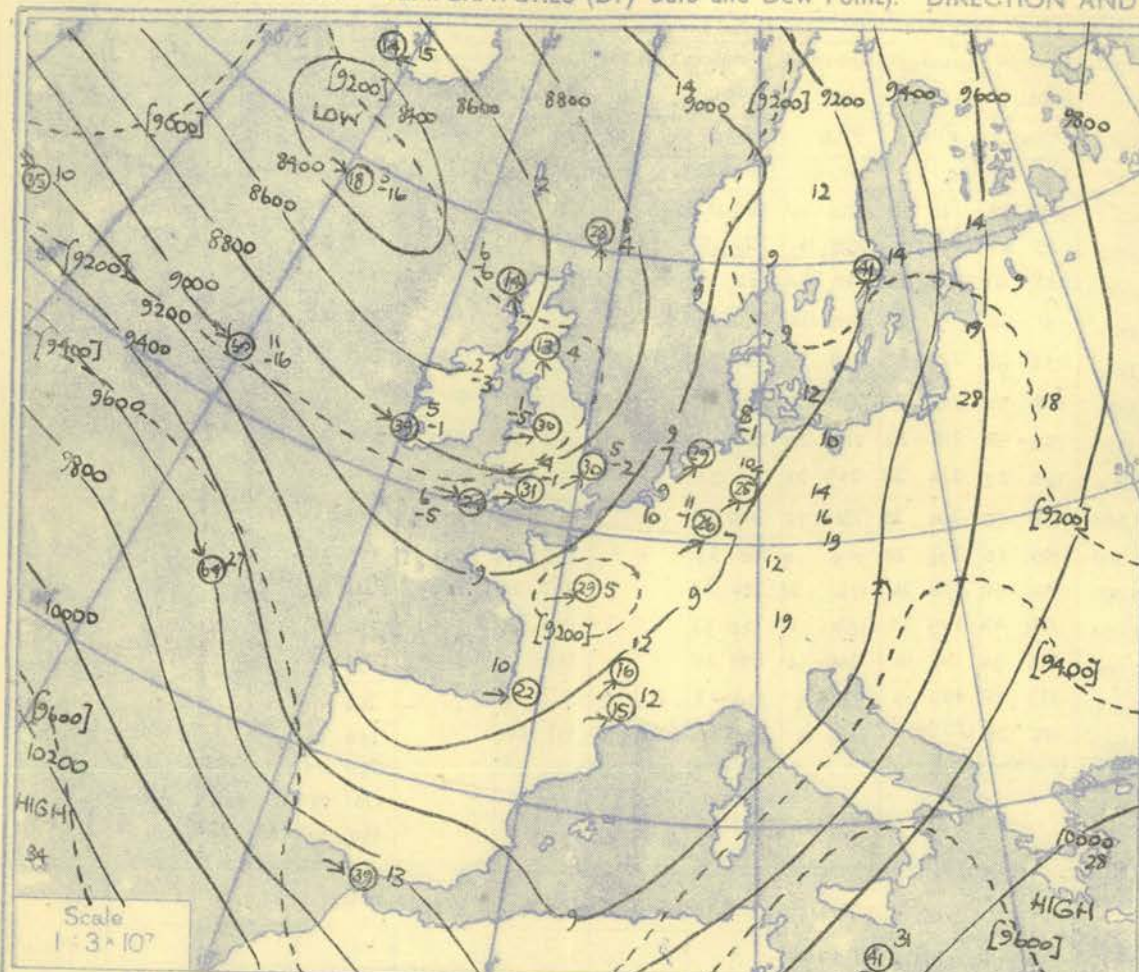
100 80 60 40 20 10 0 knots



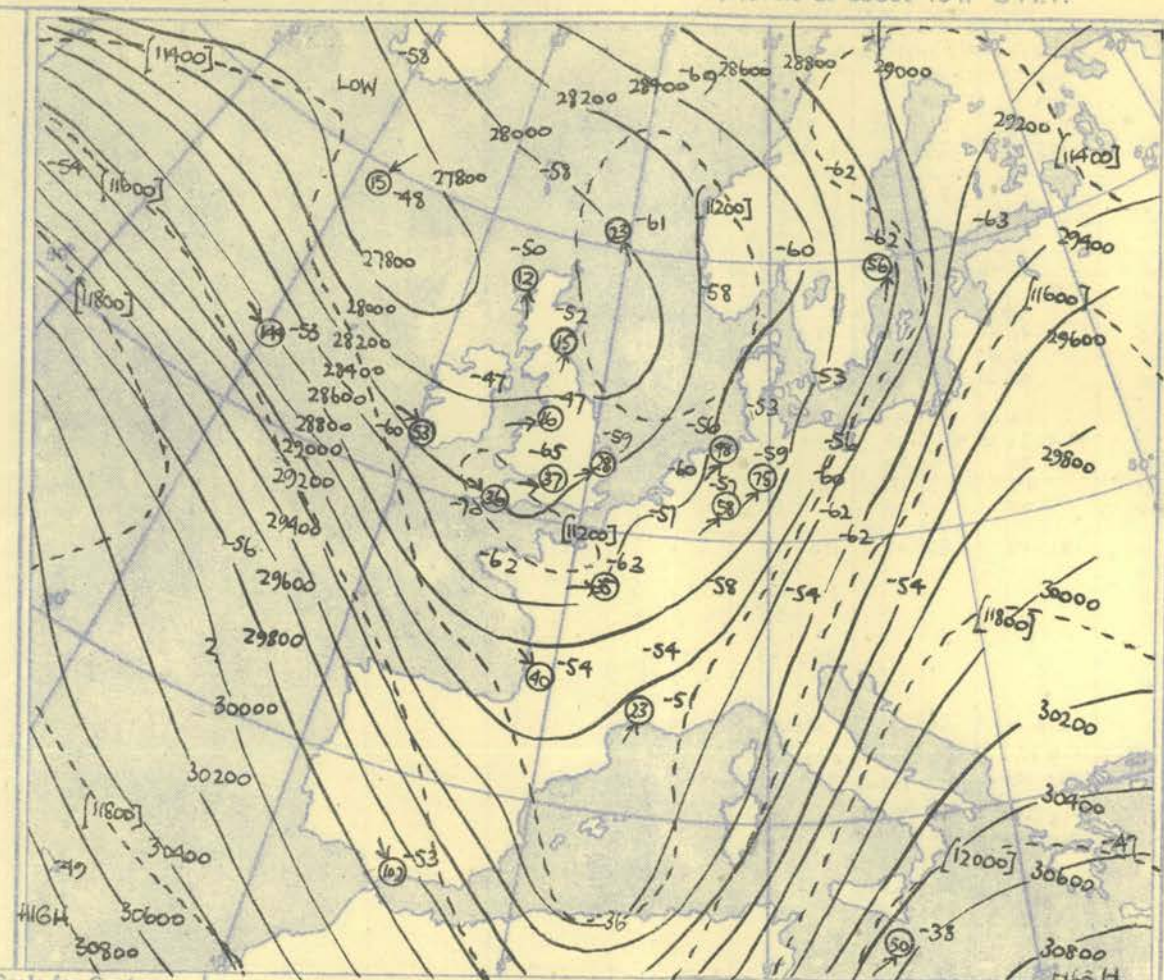


AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY															DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		43-2N 17-0W 39-5N 12-2W					51-3N 00-4E															Place																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Pressure (Time M.S.L. Surf Freezing)	Time	15L		17L		1436L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.																																	
Ship		WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				Ship			
Lat/Long		59-1N		19-4W		59-1N		19-2W		59-1N		19-2W		52-6N		20-1W		52-5N		20-0W		52-1N		20-0W		52-3N		20-1W		Lat/Long			
Pressure	Time	03L		G.M.T.		09L		G.M.T.		15L		G.M.T.		21L		G.M.T.		03L		G.M.T.		09L		G.M.T.		15L		G.M.T.		Time			
	M.S.L.	967		mb		967		mb		969		mb		975		mb		988		mb		991		mb		994		mb		M.S.L.			
	Surf	967		mb		967		mb		969		mb		975		mb		988		mb		991		mb		994		mb		Surf			
	Freezing	930		mb		930		mb		925		mb		895		mb		910		mb		910		mb		910		mb		Freezing			
Pressure		Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Pressure			
mb		ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	mb			
Surf			36 36	300	25	-8.7	37 35	290	30	-8.4	38 38	200	18	-6.8	41 39	290	20	-3.3	42 36	295	25	-2.7	40 37	295	26	-1.8	44 27	280	35	-7	37 18	300	36
1000		-8.8																													Surf		
950			34 34	305	28		34 31	307	21		35 35				29 35	300	23		37 27	306	40		37 34	302	40		38 23	302	48		37 18	300	36
900		19.0	27 27	301	25	19.1	28 21	301	23	19.5	28 28			21.3	33 26	299	24	24.7	30 25	302	42	25.3	30 27	299	41	26.2	30 19	304	44	27.3	29 15	298	37
850			21 21	294	22		21 11	299	25		21 21			26	20	297	26		23 18	294	42		31 18	293	40		23 14	302	42		22 12	292	37
800		49.3	15 15	291	18	49.4	14 06	303	22	49.7	15 12			51.8	18 13	298	27	55.0	17 12	293	43	55.7	15 13	292	40	56.6	16 11	302	45	57.5	17 05	286	40
750			08 06	289	15		09 00	313	18		10 05			11	04	308	29		12 07	295	45		08 03	299	46		11 04	303	48		15 13	287	40
700		82.6	00 00	296	14	82.7	02 09	319	16	83.1	03 16	281	18	85.4	05 04	311	31	88.6	07 25	297	47	89.1	08 09	302	46	90.2	11 16	302	60	91.3	10 22	292	39
650			-08 -14	303	09		-06 -18	326	18		-05 -19	278	19		-02 -10	322	35		02 24	301	49		00 20	302	47		03 27	302	59		06 32	305	48
600		120	-16 -20	320	06	120	-13 -26	320	13	120	-15 -28	259	16	123	-10 -17	334	35	127	-04 32	304	48	127	-06 26	301	61	128	-04 33	302	61	130	-01 43	314	61
550			-20 -24	115	14		-21 -34	133	07		-23 -38	262	15		-20 -27	342	29		-11 29	307	49		-14 33	298	66		-12 39	302	66		-05 41	307	75
500		162	-27 -30	123	25	163	-26 -37	138	20	163	-28 43	CALM	166	-36 -36	340	22	170	-10 36	307	54	170	-23 41	302	64	172	-20 46	302	76	174	-12 35	300	81	
450			-33 -37			-35 45	120	17		-35 45	123	21		-36 49	335	22		-28 44	305	55		-35 52	299	60		-28 53	302	72		-21 40	300	95	
400		213			213	-45	122	24	213	-45	128	24	216	-48 56	330	19	221	-38 54	306	66	221	-45	297	61	223	-31 56	302	123	226	-29 45	299	126	
350						-46				-46	152	18		-50	321	13		-42	305	82		-53	298	89		-42	302	142		-39 52	293	147	
300		276	-48				277	-44			277	-48	018	15	279	-53	296	27	285	47	303	90	(221) mb	-54	287	-53	302	144	290	-54	295	154	
250			-48				-42				-47				-48		294	28		49	302	88		-61	302	117		-70	298	147		298	147
200		365	-47				367	-44			366	-46		367	-51	286	25	374	47	292	74		-54	302	76	276	-60	298	88		298	88	
170			-49				-45		280	35		-47			-56	277	26		-50	292	73			302	68		-54	302			298	62	
150			-48				-49		278	42		-47		(162) mb	-57			-53	288	70			(154) mb	-56						-59	298	49	
130			-49				-52		280	34		-46	298	15	mb		(133) mb	-55												-63	298	41	
110			-51				-52		314	32		-49	284	16																-62	298	38	
100		517	-53				-52				518	-51		281	16																-61	298	35
90			-56				-52				-53		278	20																			
80			-56				-54				-51		277	23																			
70			-56				-56				-50		267	21																			
60			-56				-57				-50		266	19																			
			-54										269	17																			
		(33) mb	-53																														
							(55) mb	-58					(50) mb	51	(44) mb	-51																	
																																	</

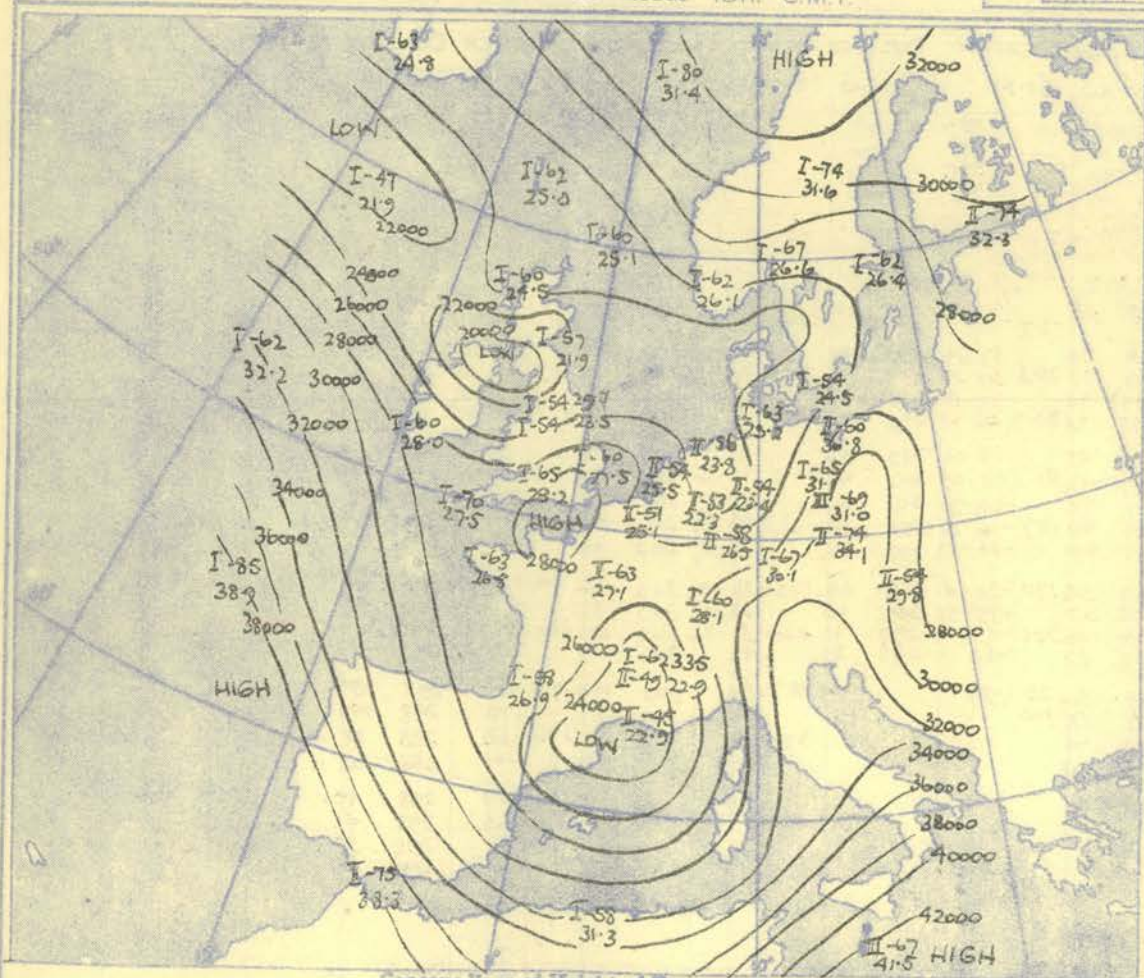


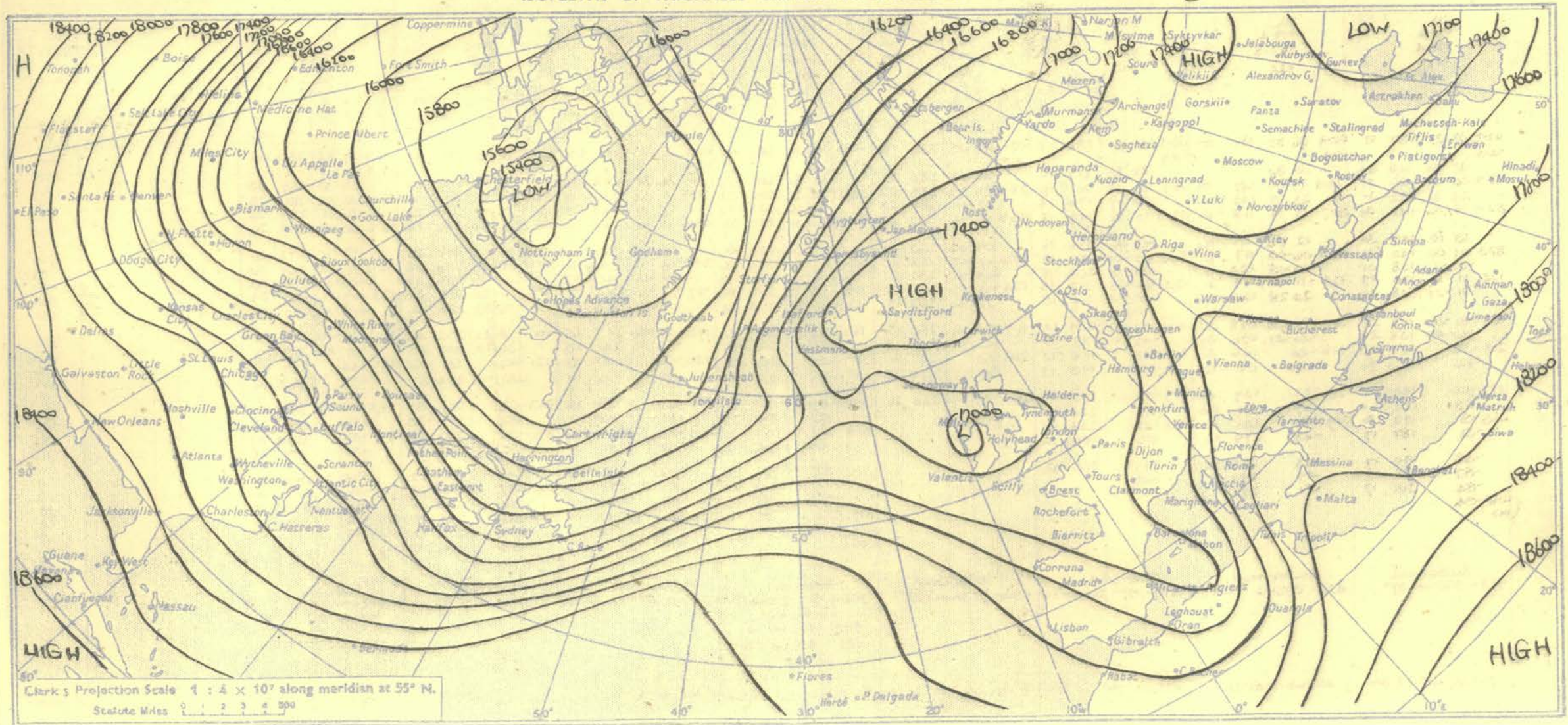
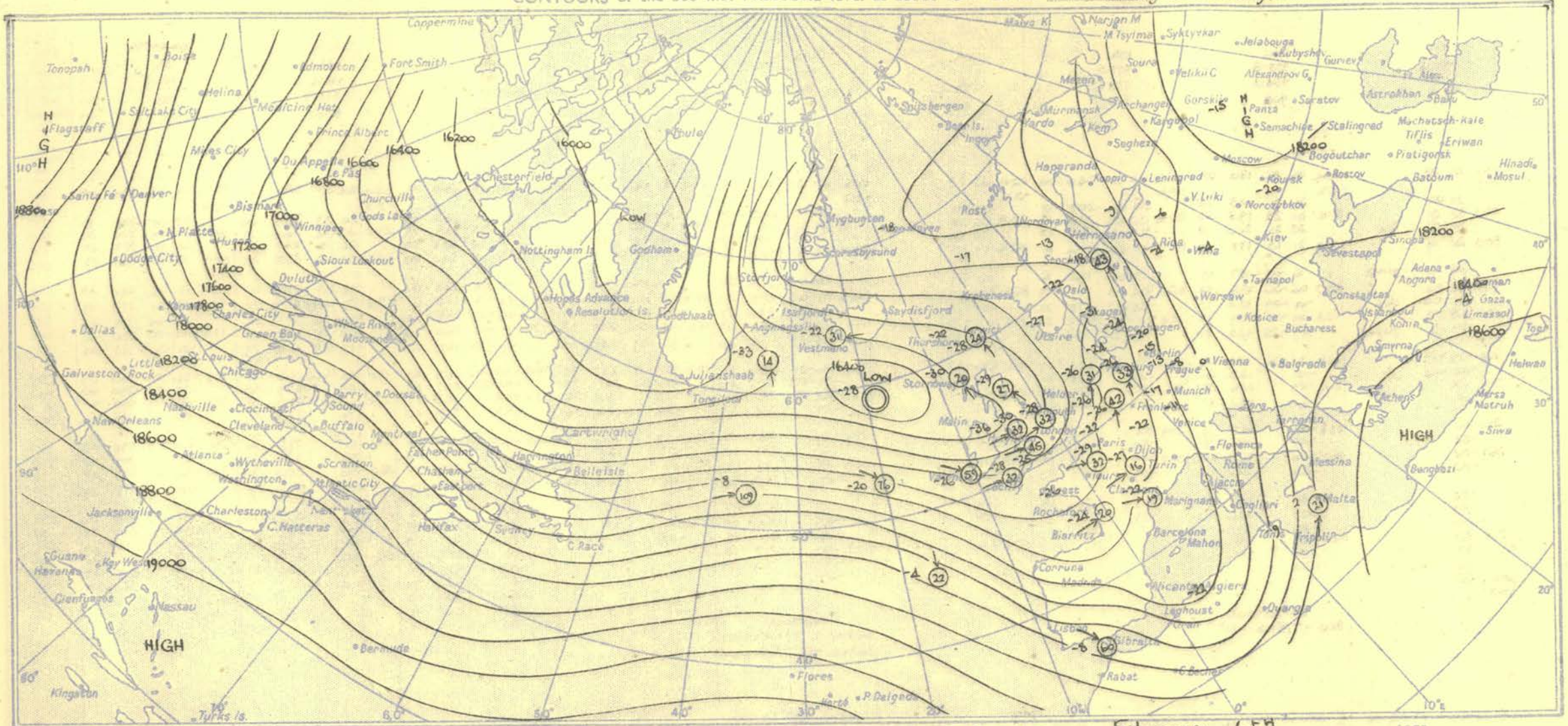
TROPOPAUSE CHART at about 15h. G.M.T.



NOTES ON THE AEROLOGICAL SITUATION.

The warm ridge over Eastern Europe showed little change. The cold trough over Britain and France cooled a little and formed a shallow cold pool over Britain. The warm ridge south of latitude 55°N which had advanced rapidly in the previous 24 hrs changed little as the low with which the motion had been associated reached the crest of the ridge and was steered rapidly southeastward in the main thermal gradient.



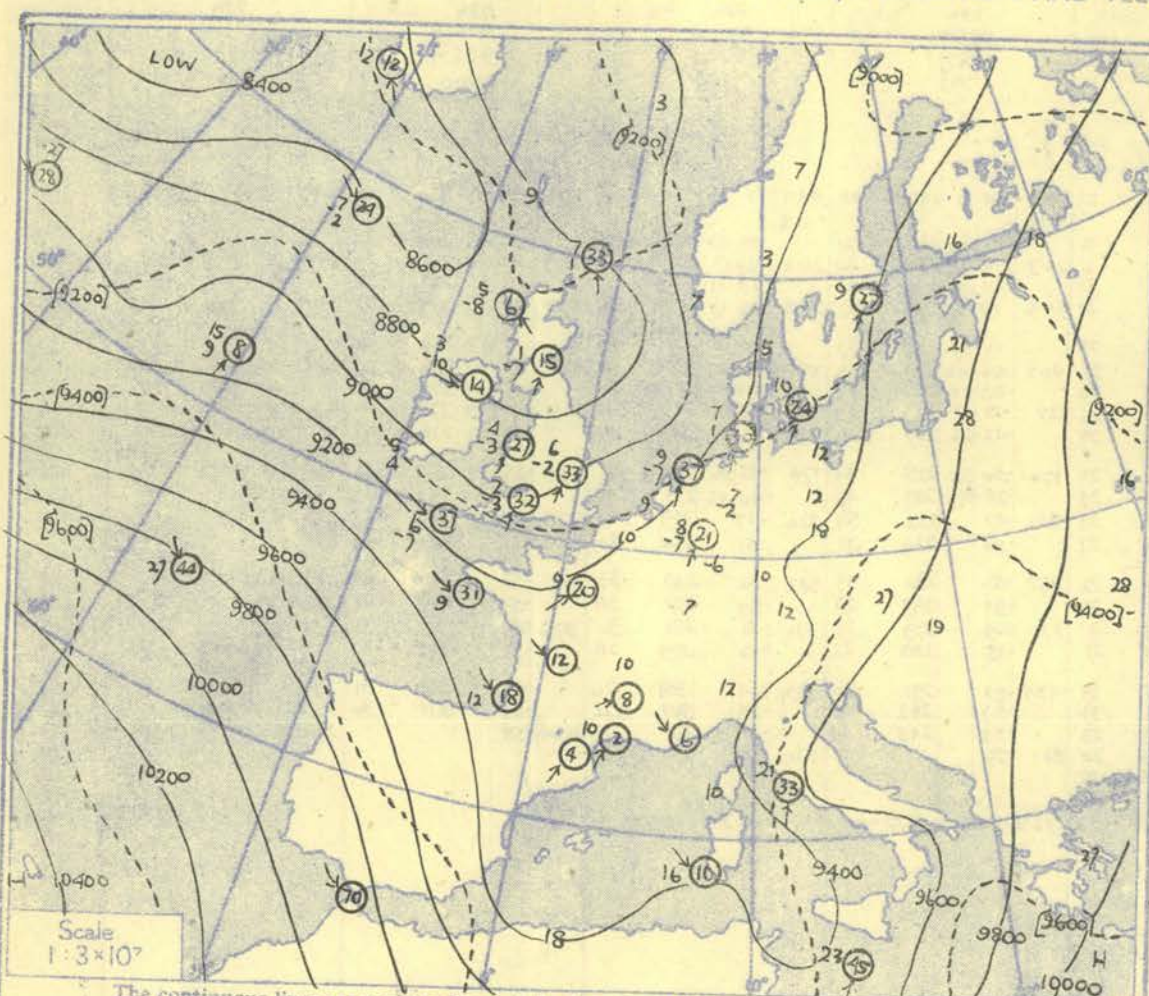


HMSO Press, MO, Dunstable

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)																																															
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION									
Pressure	Time	03h.		G.M.T.	mb	03h.		G.M.T.	mb	03h.		G.M.T.	mb	03h.		G.M.T.	mb	03h.		G.M.T.	mb	03h.		G.M.T.	mb	03h.		G.M.T.	mb	03h.		G.M.T.	mb	03h.		G.M.T.	mb										
	M.S.L.	Surf	M.S.L.	Surf		M.S.L.	Surf	M.S.L.		Surf	M.S.L.	Surf		M.S.L.	Surf	M.S.L.		Surf	M.S.L.	Surf		M.S.L.	Surf	M.S.L.		Surf	M.S.L.	Surf		M.S.L.	Surf	M.S.L.		Surf	M.S.L.	Surf		M.S.L.	Surf	M.S.L.	Surf	M.S.L.	Surf				
	Freezing		Freezing			Freezing		Freezing			Freezing			Freezing		Freezing			Freezing			Freezing		Freezing			Freezing			Freezing		Freezing			Freezing			Freezing		Freezing		Freezing		Freezing			
Pressure	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Pressure										
Surf	02.7	39	36	150	20	00.4	31	27	150	05	00.2	35	30	210	06	02.6	31	30	240	08	00.6	36	32	200	03	01.2	34	31	180	08	04.4	32	31	210	03	02.9	39	35	320	10	00.3	41	33	Surf			
1000	03.9					04.8					04.4					03.3					02.9					01.6					01.5					01.1				01.6			1000				
950		36	31	146	30		35	31	37	07		32	28	224	21		33	28	219	15		33	28	219	12		35	30	220	21		35	33	242	24		36	33	284	22		37	28	950			
900		30	27	145	30		29	24	34	06		23	22	224	21		28	24	257	18		28	24	257	18		30	25	229	20		29	27	242	25		32	30	281	26		33	28	900			
850		24	23	143	30		22	18	25	05		22	15	225	20		23	16	277	23		23	16	277	23		24	19	231	23		23	21	240	27		26	25	281	28		26	24	850			
800		19	16	140	32		17	11	19	06		15	07	228	15		17	12	252	24		18	10	233	24		18	10	233	32		18	13	236	29		19	18	284	32		18	16	800			
750																																										750					
700		14	08	06	32		13	01	113	05		08	01	222	14		10	02	276	17		11	02	248	25		12	07	233	33		10	02	237	30		11	07	287	34		11	10	700			
650		07	01	35	33		05	08	112	06		01	07	245	15		03	10	277	18		04	02	247	27		06	02	219	33		02	03	235	32		06	07	285	37		04	05	650			
600		02	03	35	35		03	17	108	10		06	12	225	16		06	12	294	14		06	12	294	14		06	12	227	35		04	07	241	35		01	14	286	36		01	06	600			
550		11	18	33	38		11	25	107	12		14	24	234	19		12	25	303	21		12	25	303	21		12	25	225	33		12	25	243	35		09	19	278	41		09	20	550			
		20	28	31	40		21	34	101	16		24	37	237	19		23	40	307	24		22	32	243	25		22	32	227	33		23	37	242	39		19	27	278	41		17	31				
500		16	30	38	42		16	30	087	24		16	35	256	15		16	30	240	29		17	30	240	29		17	30	225	39		17	30	237	41		17	30	285	46		17	34	500			
450																																												450			
400		21	33	30	41		21	33	068	35		21	33	232	16		21	33	232	29		21	33	232	29		21	33	222	48		21	33	233	49		21	33	297	62		22	32	400			
350																																												350			
300		28	40	30	22		28	40	305	06		27	39	239	13		28	40	293	30		28	40	293	30		28	40	230	37		28	40	267	33		28	40	300	63		28	40	300			
250																																												250			
200		36	52	155	12		36	52	289	13		36	52	287	16		36	52	298	31		36	52	298	31		36	52	273	26		36	52	273	26		36	52	298	61		36	52	200			
170																																												170			
150		52		183	19		52		302	18		52		302	18		52		302	22		52		302	22		52		291	20		52		291	20		52		306	31		52		306	150		
130		55		197	18		55		288	15		55		288	15		55		288	22		55		288	22		55		282	18		55		282	18		55		311	30		55		311	130		
110		54		190	20		54		291	16		54		291	16		54		291	22		54		291	22		54		280	20		54		280	20		54		301	19		54		301	110		
100		57		206	20		57		303	15		57		303	15		57		303	20		57		303	20		57		278	20		57		278	20		57		297	20		57		297	100		
90		57		253	20		57		302	15		57		302	15		57		302	20		57		302	20		57		278	20		57		278	20		57		297	20		57		297	90		
80		57		227	10		57		282	11		57		282	11		57		282	20		57		282	20		57		278	20		57		278	20		57		297	20		57		297	80		
70		57		227	10		57		282	11		57		282	11		57		282	20		57		282	20		57		278	20		57		278	20		57		297	20		57		297	70		
60		57		227	10		57		282	11		57		282	11		57		282	20		57		282	20		57		278	20		57		278	20		57		297	20		57		297	60		
Inversion		405 mb 54° - 389 mb 55°				Inversion		980 mb 31° - 963 mb 37°								Inversion		401 - 385 mb 49°																													
Tropopause		I 339 mb - 62° 25,400'				I 400 mb - 53° 21,700'						II 424 mb - 54° 20,300'				I 407 mb - 56° 21,400'				I 385 mb - 49° 23,700'				II 338 mb - 55° 25,700'				II 336 mb - 53° 25,600'				II 292 mb - 53° 29,300'				N.R.				Tropopause							
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION													
Pressure	Time	09h.		G.M.T.	mb	09h.		G.M.T.	mb	09h.		G.M.T.	mb	09h.		G.M.T.	mb	09h.		G.M.T.	mb	09h.		G.M.T.	mb	09h.		G.M.T.	mb	09h.		G.M.T.	mb	09h.		G.M.T.	mb	09h.		G.M.T.	mb						
	M.S.L.	Surf	M.S.L.	Surf		M.S.L.	Surf	M.S.L.		Surf	M.S.L.	Surf		M.S.L.	Surf	M.S.L.		Surf	M.S.L.	Surf		M.S.L.	Surf	M.S.L.		Surf	M.S.L.	Surf		M.S.L.	Surf	M.S.L.		Surf	M.S.L.	Surf		M.S.L.	Surf	M.S.L.		Surf	M.S.L.	Surf	M.S.L.	Surf	
	Freezing		Freezing			Freezing		Freezing			Freezing			Freezing																																	

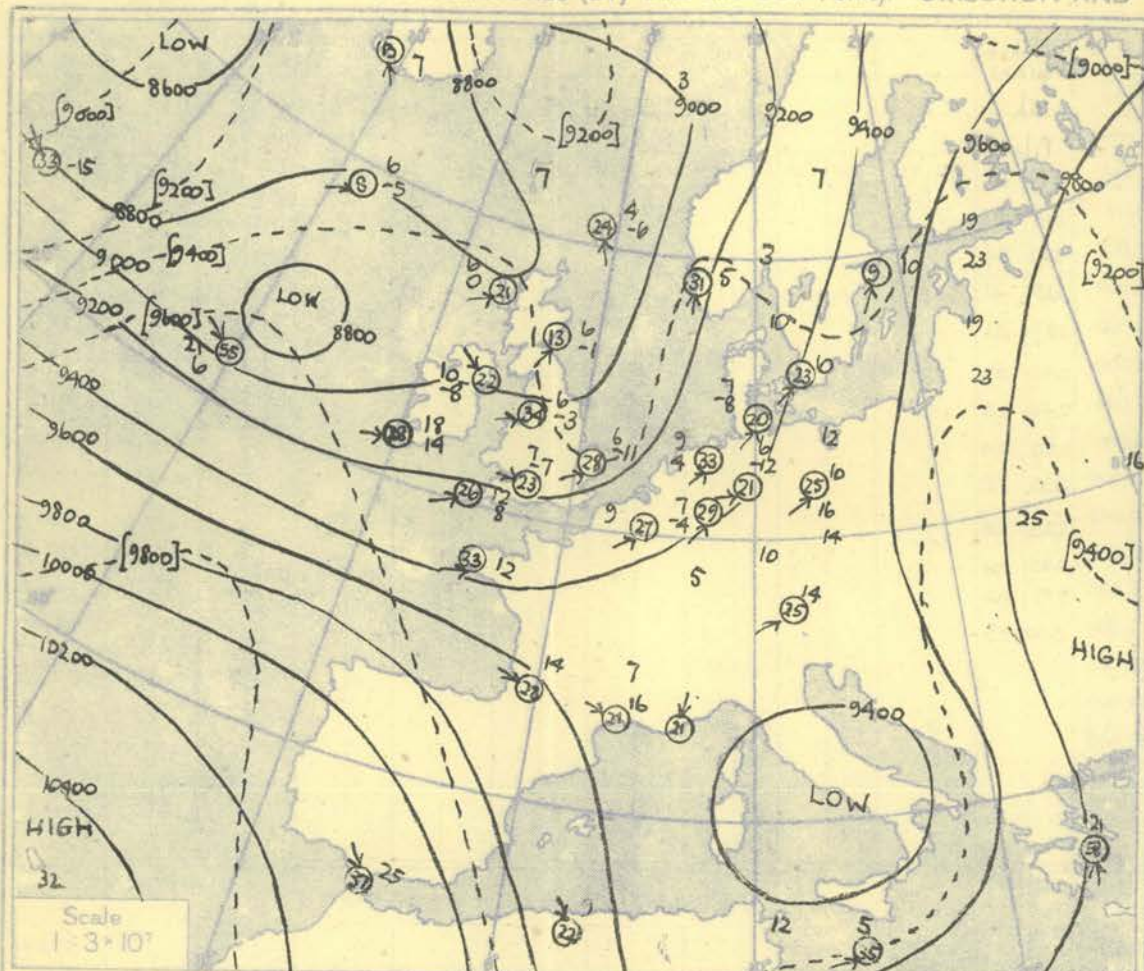
Wednesday 7th February, 1951.

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03h G.M.T.

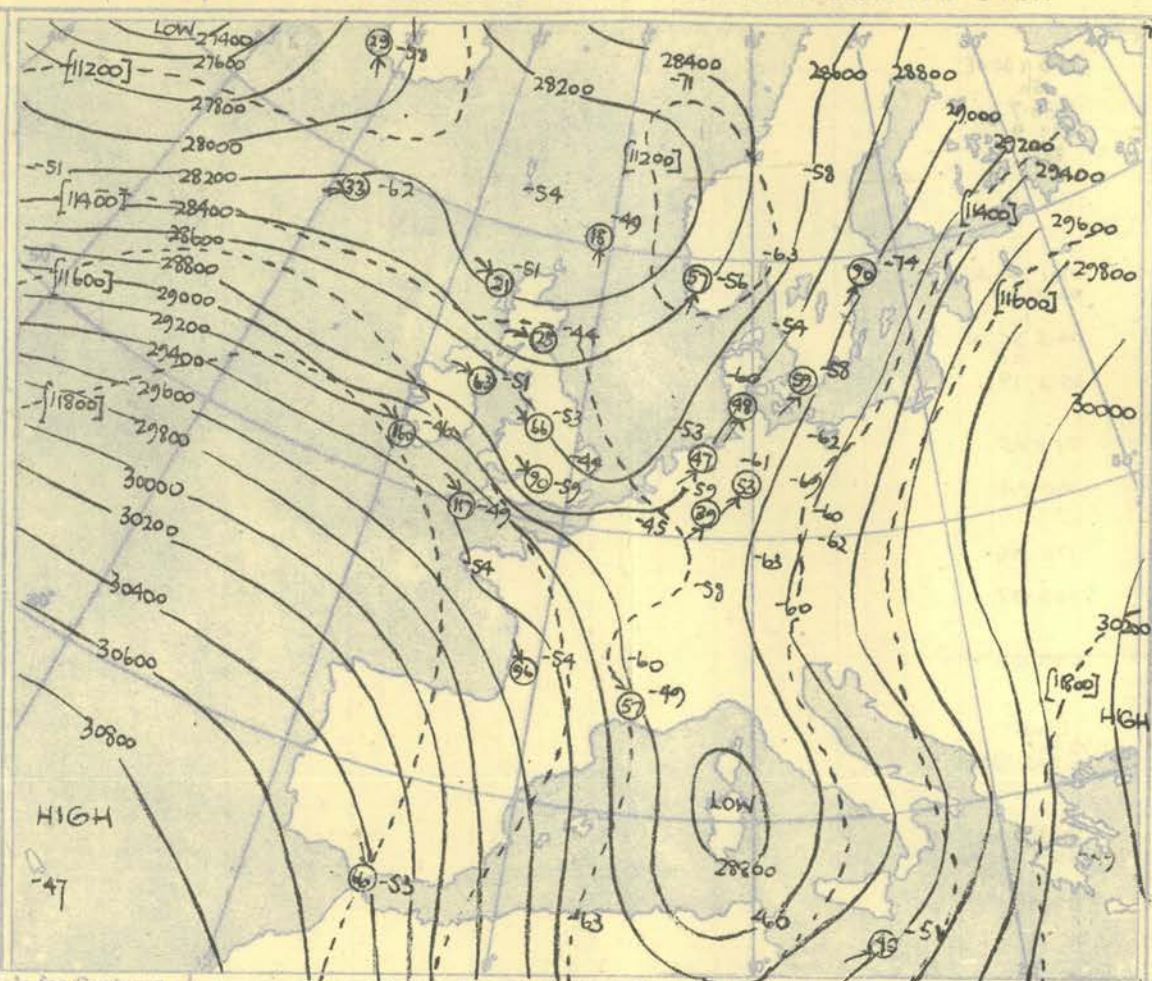


DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS[illegible]



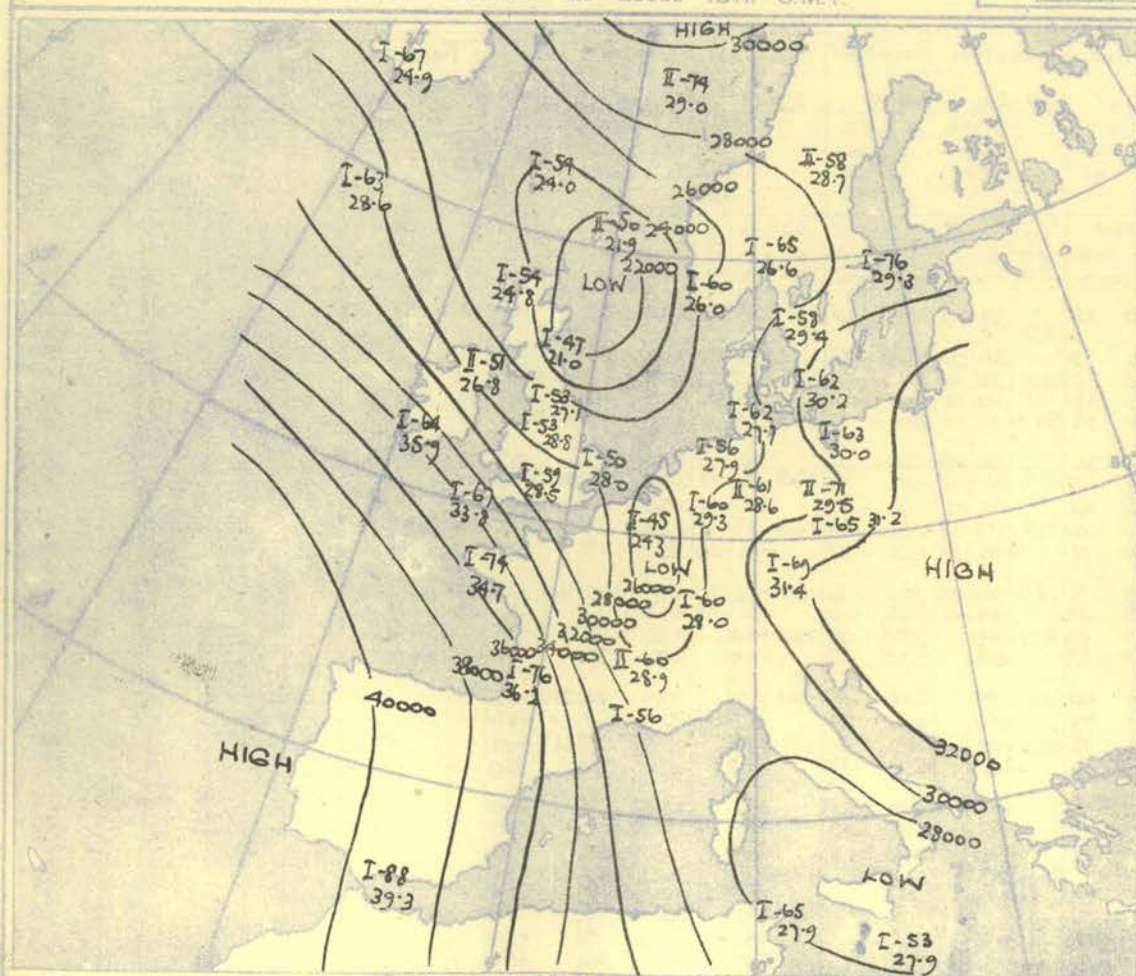
The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000—700 mb



Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. $52\frac{1}{2}^{\circ}$ N

100 50 40 30 20 10 0 knots

TROPopause CHART at about 15h. GMT

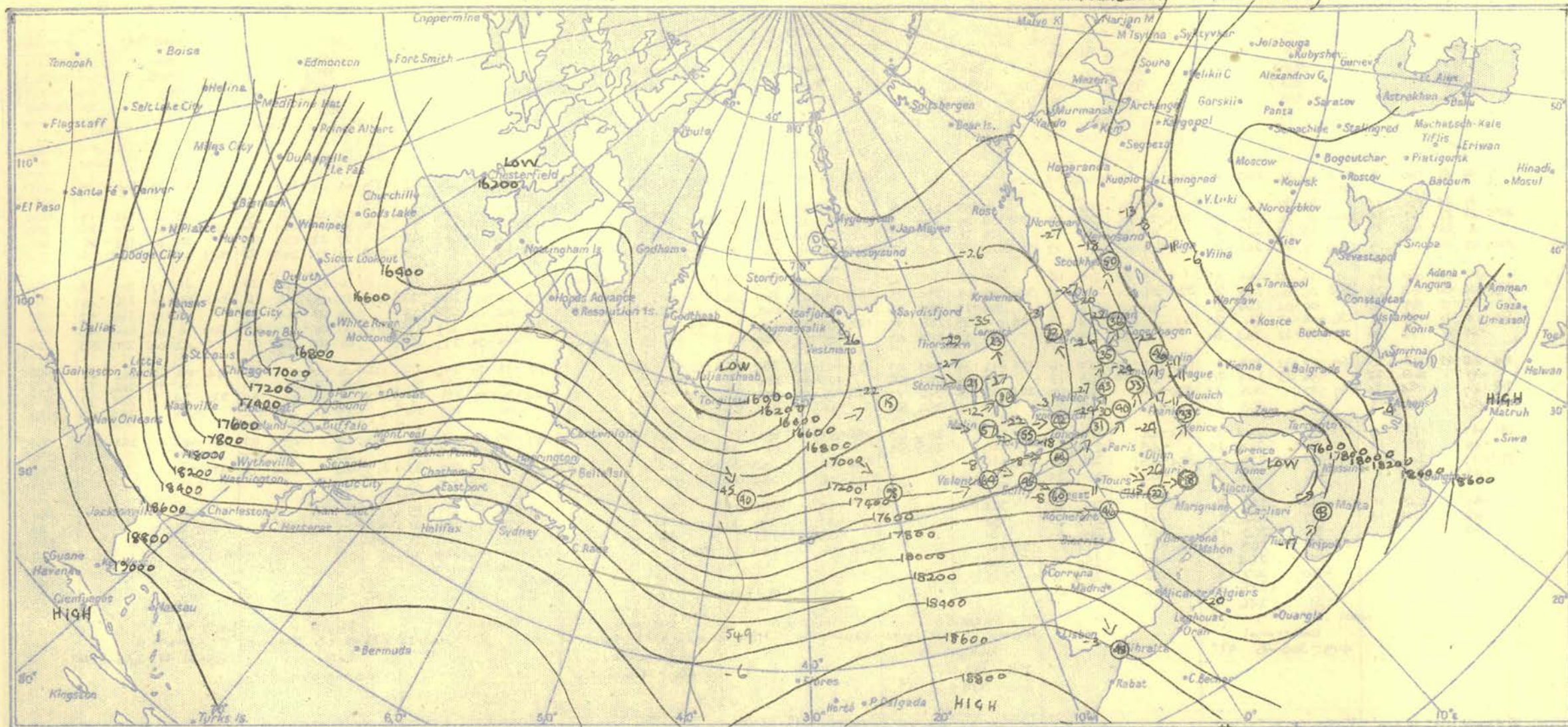


NOTES ON THE AEROLOGICAL SITUATION.

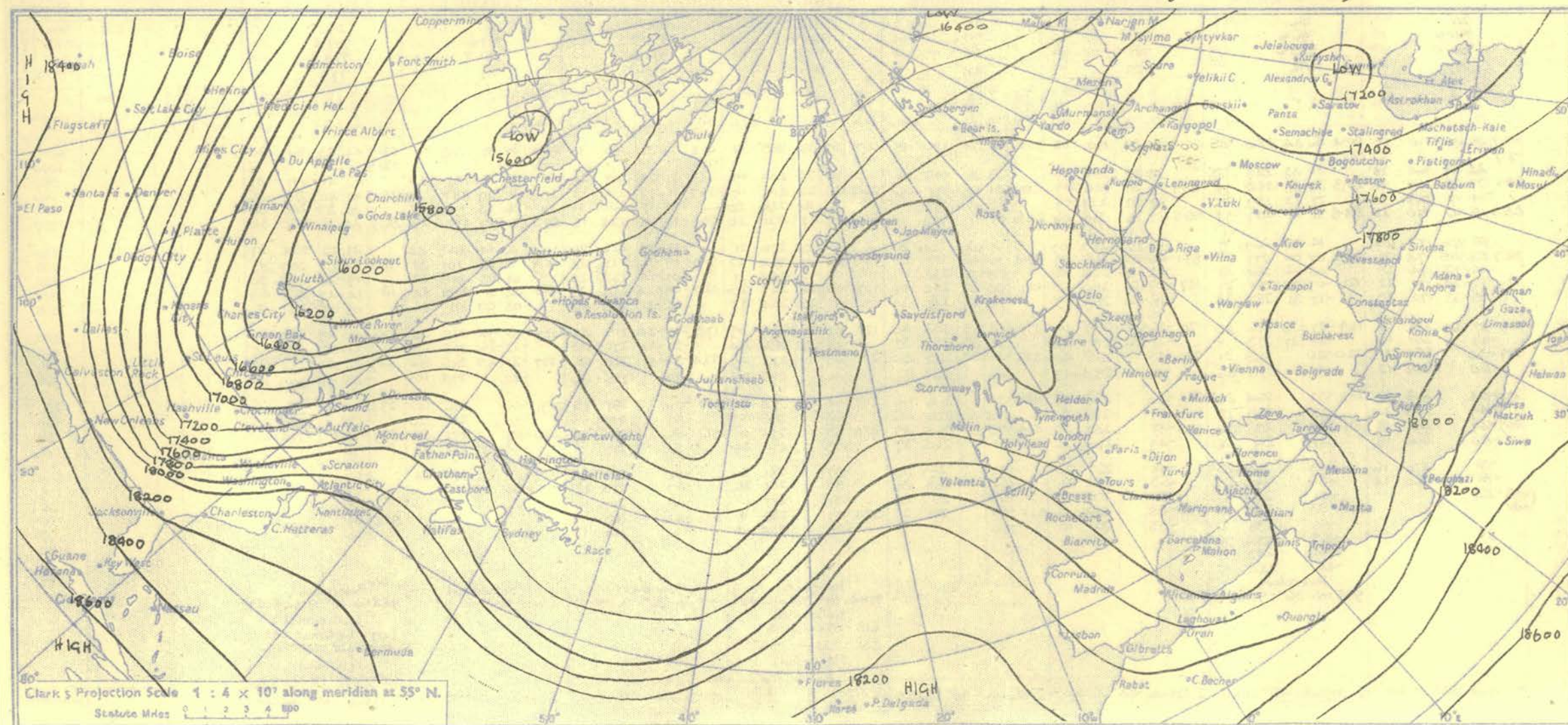
The warm ridge in the Atlantic advanced again to reach Ireland, produce a tight thermal gradient over Southwestern England, and to sharpen the cold trough over France. A further cold trough formed on the Western Atlantic

RATES of SUBSCRIPTION : Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.-.

Meteorological Office, Air Ministry, Kingsway, London, W.C.2
 NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T. Wednesday 7th February 1951.



Clark's Projection Scale 1 : 4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 100

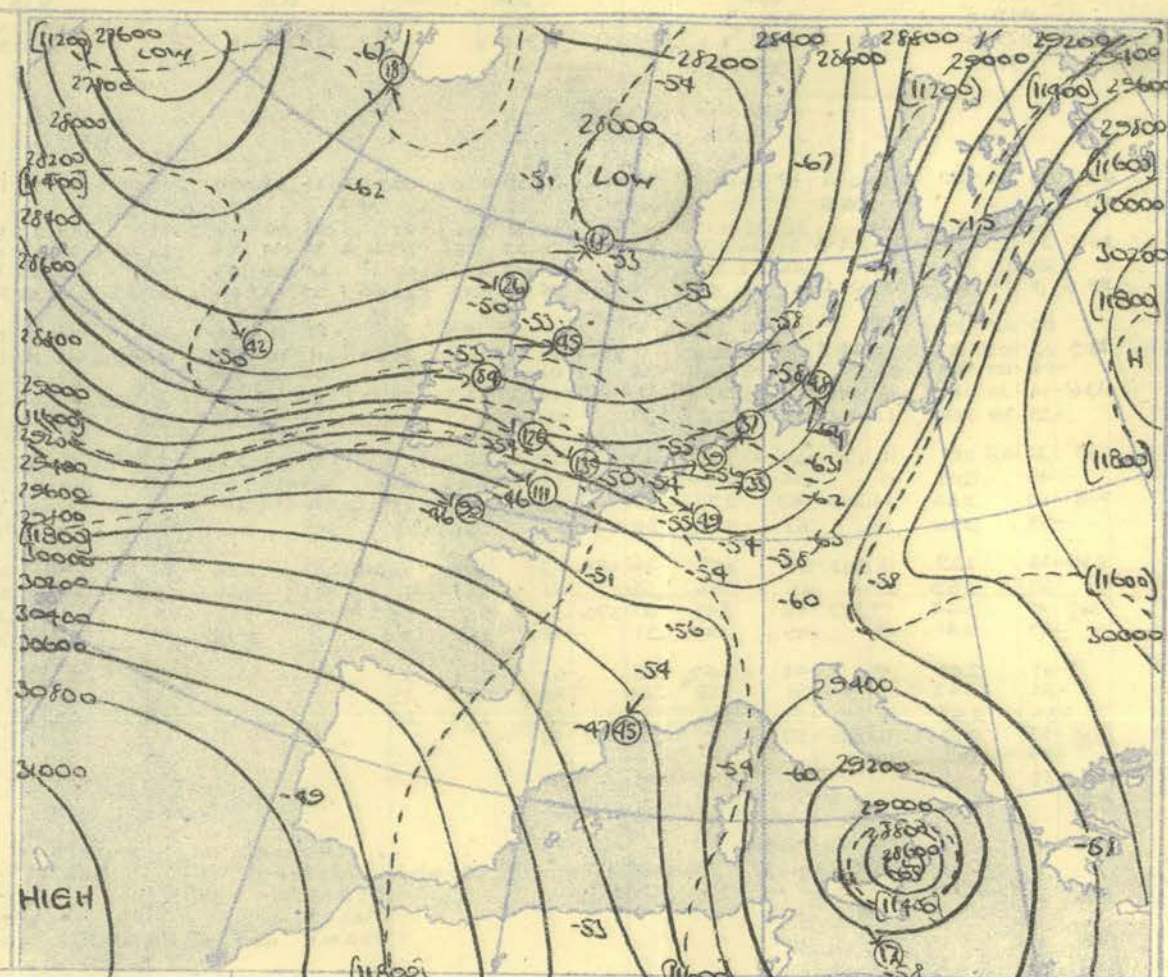
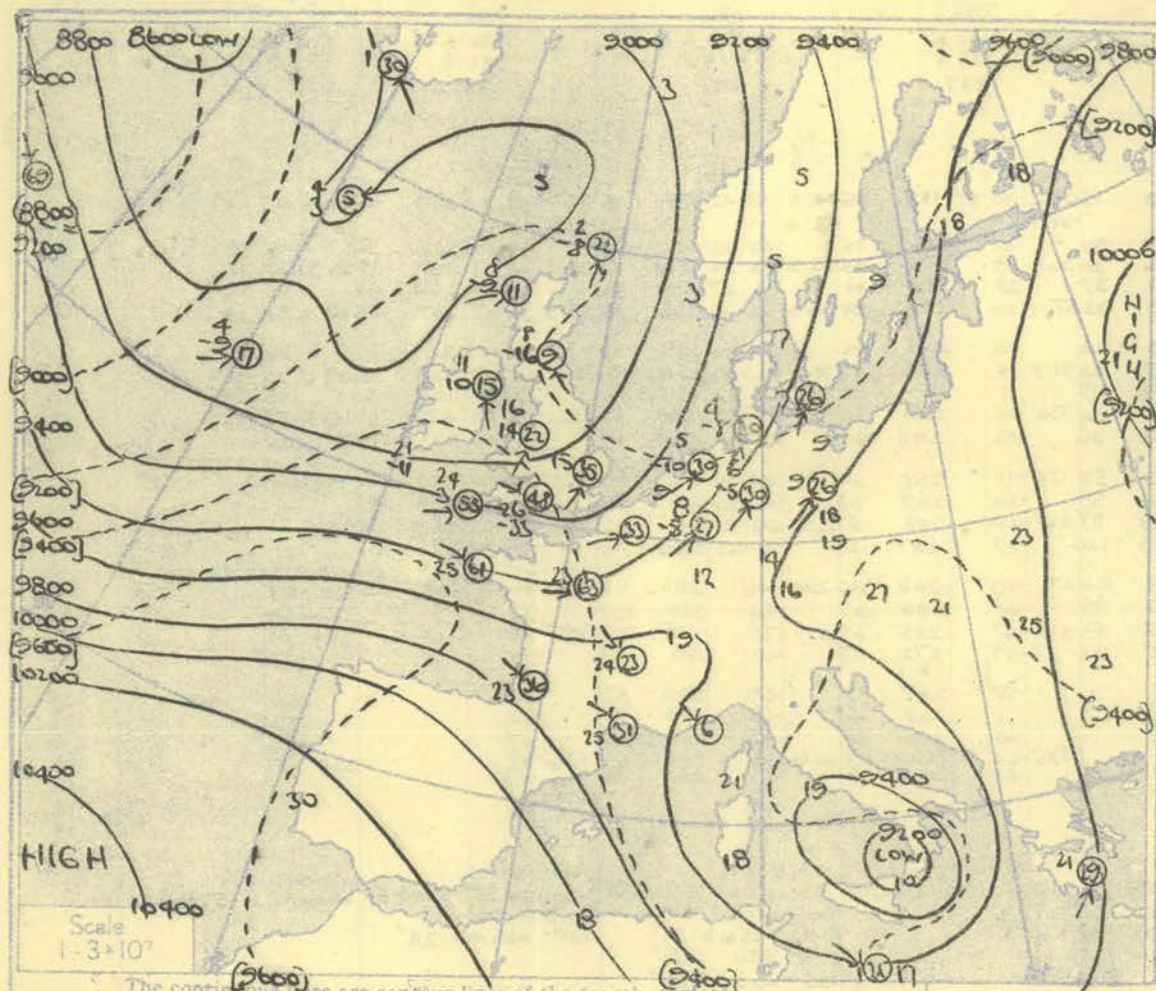
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																																																																					
Time M.S.L. Surf Pressure	ish. 987.5 979.5 920	G.M.T. mb mb mb	ish. 985.2 983.7 915	G.M.T. mb mb mb	ish. 990.0 989.1 938	G.M.T. mb mb mb	ish. 989.0 986.0 885	G.M.T. mb mb mb	ish. 993.7 991.6 900	G.M.T. mb mb mb	ish. 999.3 994.1 925	G.M.T. mb mb mb	ish. 999.2 983.1 914	G.M.T. mb mb mb	ish. 999.4 988.8 895	G.M.T. mb mb mb	ish. 990.8 989 890	G.M.T. mb mb mb	Time M.S.L. Surf Pressure																																																																																																																																																							
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb																																																																																																																																									
Surf	02.7	40	37	180 18	00.4	40	34	225 08	00.2	40	33	220 07	02.6	40	37	210 18	00.6	43	35	210 12	01.2	43	33		04.4	43	34	250 12	02.9	44	37	225 10	00.3	42	39	160 09	Surf																																																																																																																																					
1000	-2.9				-4.0				-2.7				-2.8				-1.7				-0.5				-0.2				-2.2				-2.5				1000																																																																																																																																					
950	25.0	27	27	167 24	24.0	31	26	234 15	25.1	28	25	216 12	25.3	33	29	265 26	26.4	38	25	223 18	27.5	36	26		27.8	38	28	241 18	28.0	40	35	221 26	28.5	38	36	162 19	950																																																																																																																																					
900	21	20	20	165 29	25.1	19	19	239 17	22	20	220 16	28	21	283 26	24	20	248 23	26	20	248 23	25	13		For	27.8	30	23	248 22	28.0	33	29	229 26	28.5	33	30	170 26	900																																																																																																																																					
850	35.2	17	15	161 29	54.6	19	15	243 18	55.4	19	11	221 17	56.0	23	15	292 23	56.9	18	16	253 28	57.9	19	05		58.2	18	14	252 25	58.6	21	17	245 24	59.3	24	21	184 26	850																																																																																																																																					
800																																				800																																																																																																																																						
750	10	03		160 26	88.3	06	00	250 21	89.1	06	01	207 13	90.0	10	08	290 22	90.5	06	03	262 34	91.5	06	11	12	04	13	04	264 24	16	13	250 25	21	17	219 28	750																																																																																																																																							
700	88.7	04	06	165 24	00.04	263	21	03	09	208 21	02	21	287 25	01	12	264 31	01	12	264 31	01	12	264 31	01	12	264 31	01	12	264 31	01	12	264 31	01	12	264 31	700																																																																																																																																							
650	126	14	21	172 28	126	08	13	281 20	127	09	18	218 25	128	04	28	288 41	128	08	17	271 31	129	11	27	279 29	131	08	01	277 42	131	08	01	277 42	131	08	01	277 42	650																																																																																																																																					
600	-24	31		173 25	-17	22	284 20	-17	25	227 19	-09	34	288 57	-15	24	284 43	-15	24	284 43	-15	24	284 43	-15	24	284 43	-15	24	284 43	-15	24	284 43	-15	24	284 43	600																																																																																																																																							
550																																				550																																																																																																																																						
500	168	35	42	173 23	169	27	32	298 21	170	27	37	242 16	172	12	38	287 57	171	22	33	287 55	172	31	46		173	18	36	296 64	176	08	12	286 54	174	08	21	262 64	500																																																																																																																																					
450	-47			165 22	-38	43	30.7	25	-39	50	263	13	-23	44	287	66	-25	39	292	73	-35	51		-28	46	297	71	-18	22	284	83	-14	46	266	74	450																																																																																																																																						
400	218	49		154 20	219	47		313 22	220	44		271 19	224	35	52	286 72	223	36	52	296 87	222	39	55		224	38	49	298 87	228	29	33	288 89	227	24	281	99	400																																																																																																																																					
350	-50			160 18	-54			303 20	-42			278 29	-45			284 84	-48			296 83	-48				-50			297 96	-39	44	296	105	-34		285	128	350																																																																																																																																					
300	281	49		173 15	282	51		284 21	284	44		271 25	287	51		286 63	286	53		293 66	286	49			287	59		302 90	293	49		293	117	292	46	300																																																																																																																																						
250	-48			195 13	-51			268 24	-45			274 29	-46			285 54	-49			193 42	-47				-53			299 54	-63			299	150	-59		250																																																																																																																																						
200	370	49		206 07	371	48		275 25	374	45		281 23	376	46			374	51		285 55	375	50			374	55		287 33	379	60		300	72	379	61	200																																																																																																																																						
170	-48			227 11	-46			278 21	-45			269 24	-42				-46			284 29	-50				-52			275 25	-59				-52			170																																																																																																																																						
150	-48			245 11	-46			270 21	-47			280 25	-44				-49			274 29	-52				-56			279 25	-60				-54			150																																																																																																																																						
130	-48			245 13	-47			266 21	-47			279 25	-54				-53			272 30	-54				-58			258 21	-61				-53			130																																																																																																																																						
110	-53				-51			262 18	-50			280 16	-51				-53			282 21	-58				-61			309 21	-60				-54			110																																																																																																																																						
90					-51			263 17	-52			274 15	-52				-56			283 24	-58				-60			309 24	-60				-54			90																																																																																																																																						
80					-50			264 21	-49			286 15	-50				-57			268 16	-57				-60			309 24	-60				-54			80																																																																																																																																						
70					-50			267 16	-50			286 11	-51				-57			262 11	-57				-61			309 24	-61				-54			70																																																																																																																																						
60					-51			246 16	-50				-50				-54			274 06	-58				-63			309 24	-63				-50			60																																																																																																																																						
Inversion 540 mb. 71°-512 mb. 70° Isobthermal 195-784 mb. 22° 613-578 mb. -4°																			Inversion 320 mb. 53°-311 mb. 51° Isobthermal 440-415 mb. -36°																			Inversion 300 mb. 35°-305 mb. 34° Isobthermal 700-684 mb. 12°																			Inversion 658 mb. 13°-650 mb. 14°																																																																																																																	
Tropopause II 420 mb. -53° 29,600'																			Tropopause I 350 mb. -46° 24,800'																			Tropopause I 415 mb. -47° 24,000'																			Tropopause II 328 mb. -51° 26,800'																			Tropopause I 323 mb. -53° 27,100'																			Tropopause I 308 mb. -50° 28,000'																			Tropopause I 305 mb. -59° 28,500'																			Tropopause I 243 mb. -67° 33,800'																			Tropopause I 226 mb. -64° 38,400'																		
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																																																																					
Time M.S.L. Surf Pressure	ish. 990.0 980.0 935	G.M.T. mb mb mb	ish. 986.6 985.0 896	G.M.T. mb mb mb	ish. 990.0 989.1 937	G.M.T. mb mb mb	ish. 989.7 980.2 921	G.M.T. mb mb mb	ish. 993.2 991.2 890	G.M.T. mb mb mb	ish. 998.9 994.5 910	G.M.T. mb mb mb	ish. 999.6 981.5 912	G.M.T. mb mb mb	ish. 989.4 978.8 775	G.M.T. mb mb mb	ish. 989.4 978.8 775	G.M.T. mb mb mb	Time M.S.L. Surf Pressure																																																																																																																																																							
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb																																																																																																																																									
Surf	02.7	38	34	190 19	00.4	36	34	230 05	00.2	36	34	190 03	02.6	35	33	180 05	00.6	39	35	185 12	01.2	36	32	160 12	04.4	39	37	200 11	02.9	44	43	160 30				Surf																																																																																																																																						
1000	-2.7				-8.6				-2.7				-2.7				-1.8				-0.3				-0.6				-2.9							1000																																																																																																																																						
950	25.1	27	23	164 28	24.3	32	28	265 14	25.1	28	28	246 09	25.1	31	26	192 06	26.2	33	22	219 19	27.7	21	22	212 23	27.3	31	29	187 26	25.5	42	40	218 36				950																																																																																																																																						
900	21	21	16	167 25	27	23	259 14	23	22	227 09	25	19	192 10	26	16	220 20	26.7	19	07	220 20	28.1	19	08	224 18	28.0	21	19	193 26	25.8	36	33	236 38				900																																																																																																																																						
850	55.3	15	10	170 23	54.8	21	17	257 17	55.5	17	16	219 09	55.6	19	11	193 14	56.7	19	07	220 20	58.1	19	08	224 18	58.0	21	19	193 26	56.8	34	26	250 35				850																																																																																																																																						
800																																			800																																																																																																																																							
750	10	04		172 23	14	03	269 19	10	12	202 09	14	04	200 21	15	02	220 21	15	02	220 21	13	02	226 26	16	14	203 30	16	14	203 30	17.5	29	22	254 37				750																																																																																																																																						
700	88.7	03	05	174 26	88.6	07	00	277 20	89.1	06	02	215 09	89.4	10	05	217 13	90.5	08	07	224 22	91.7	07	11	228 28	91.9	11	08	219 32	91.6	24	07	257 42				700																																																																																																																																						
650	-06	13		174 25	00	06	264 19	02	14	225 08	03	21	238 07	00	12	244 21	08	12	244 21	02	14	233 24	07	03	245 37	07	03	245 37	19	24	264 50				650																																																																																																																																							
600	126	16	24	171 22	126	07	22	280 24	127	09	26	280 05	127	05	29	242 14	128	05	15	247 26	129	08	24	244 28	130	04	01	255 44	131	14	45	265 55				600																																																																																																																																						
550	-25	33		172 19	-17	31	282 23	-18	36	288 09	-13	23	247 24	-11	20	254 32	-11	20	254 32	-14	31	260 32	-03	05	271 46	-03	05	271 46	08	29	267 56				550																																																																																																																																							
500	168	37	44	181 15	169	27	38	276 20	170	26	45	299 14	171	18	25	253 30	172	17	27	266 39	173	19	24	270 42	175	13	16	275 50	176	03	29	283																																																																																																																																										

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

LERWICK										STORNOWAY										LEUCHARS										ALDERGROVE										LIVERPOOL										DOWNHAM MARKET										LARKHILL										CAMBORNE										VALENTIA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Time		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.		03h		G.M.T.</	

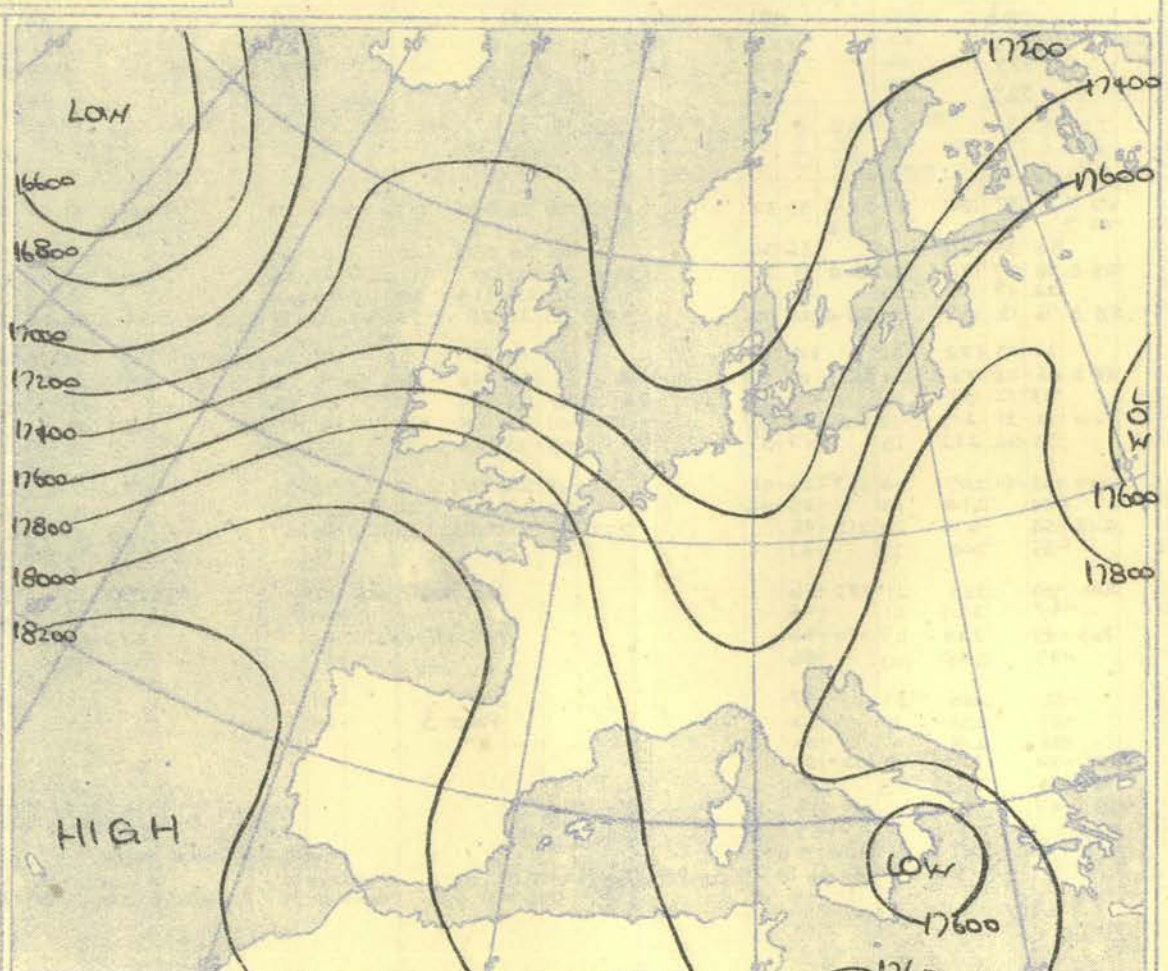
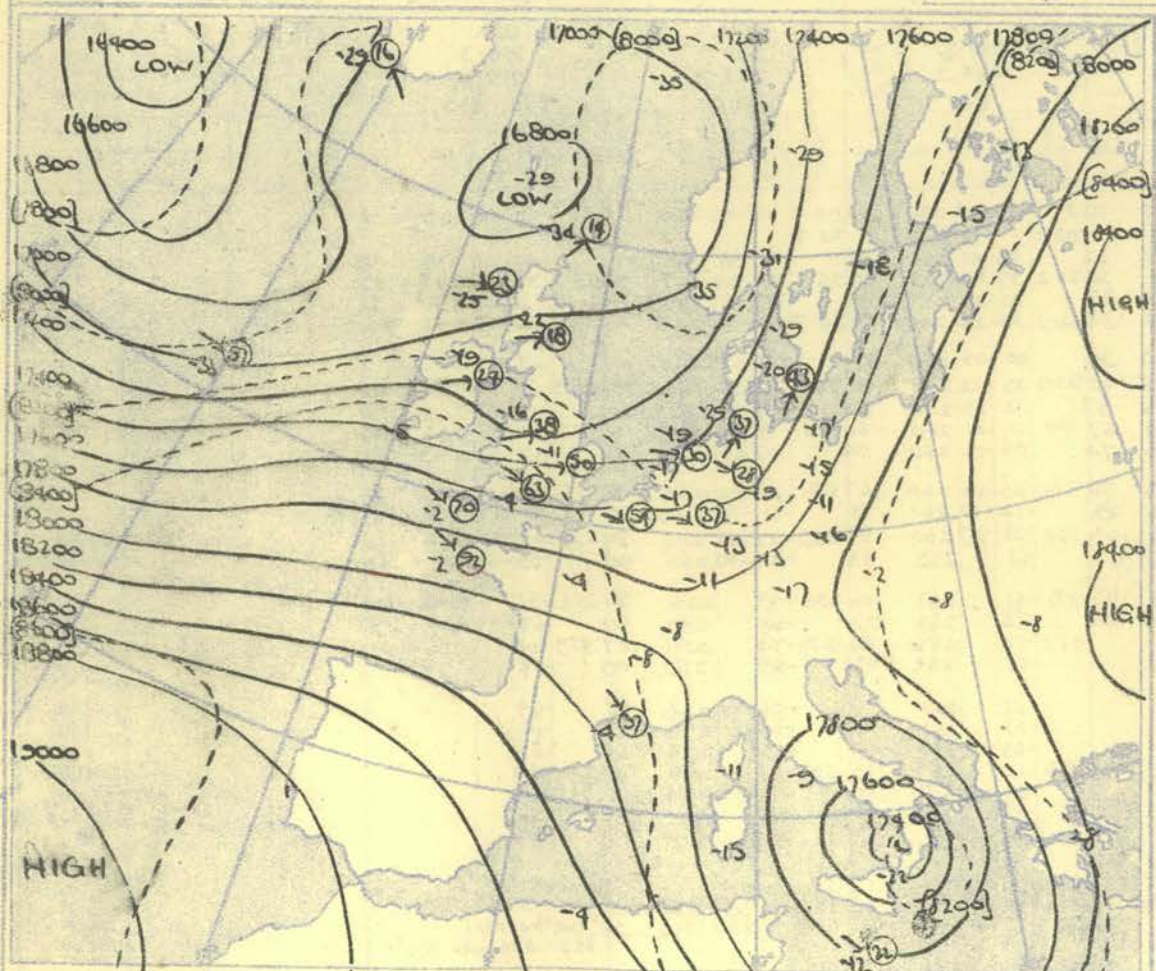
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h G.M.T.



Gradient Wind Scale for Contours
at intervals of 100 ft. at Lat. 52° N.

100	50	40	30	20	15	10	5	0
-----	----	----	----	----	----	----	---	---

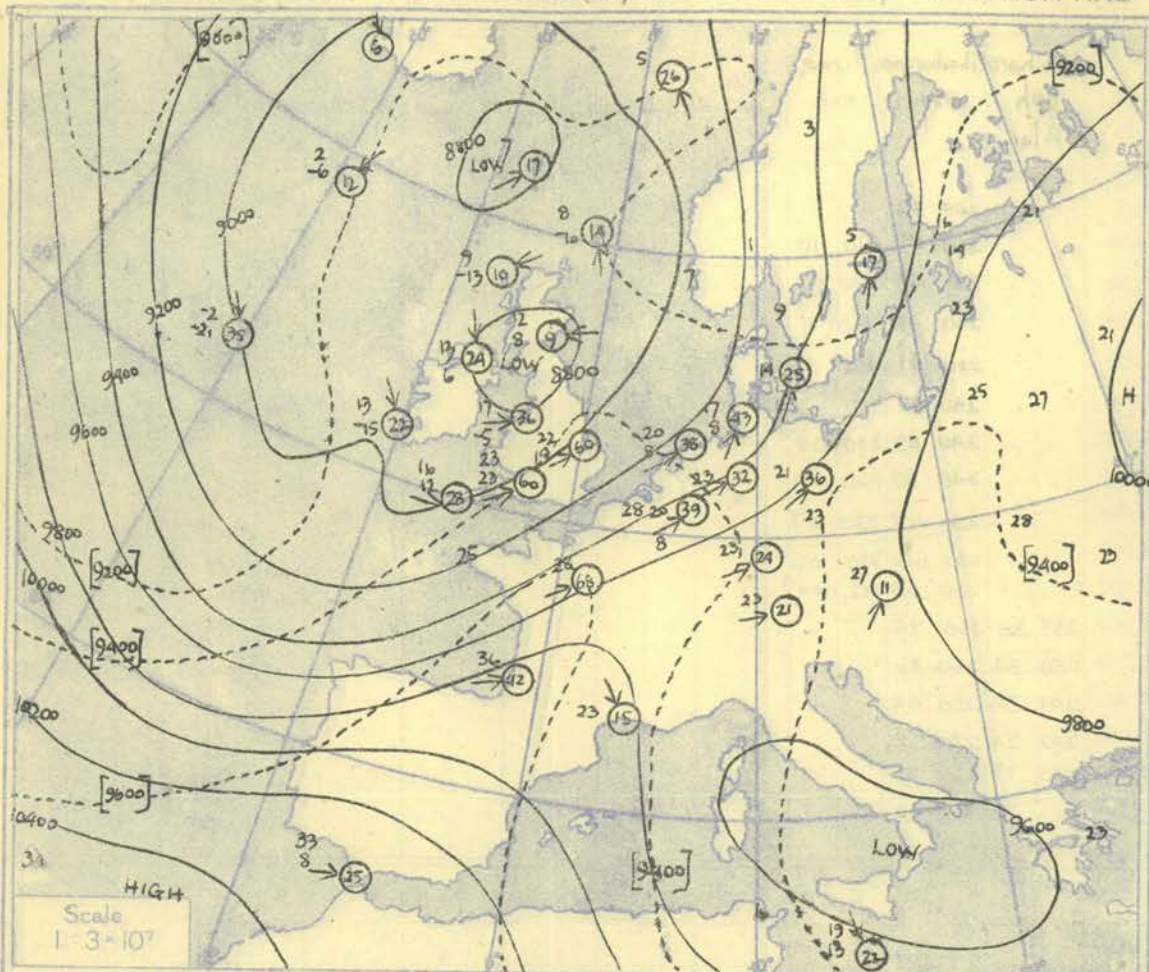
in knots



DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

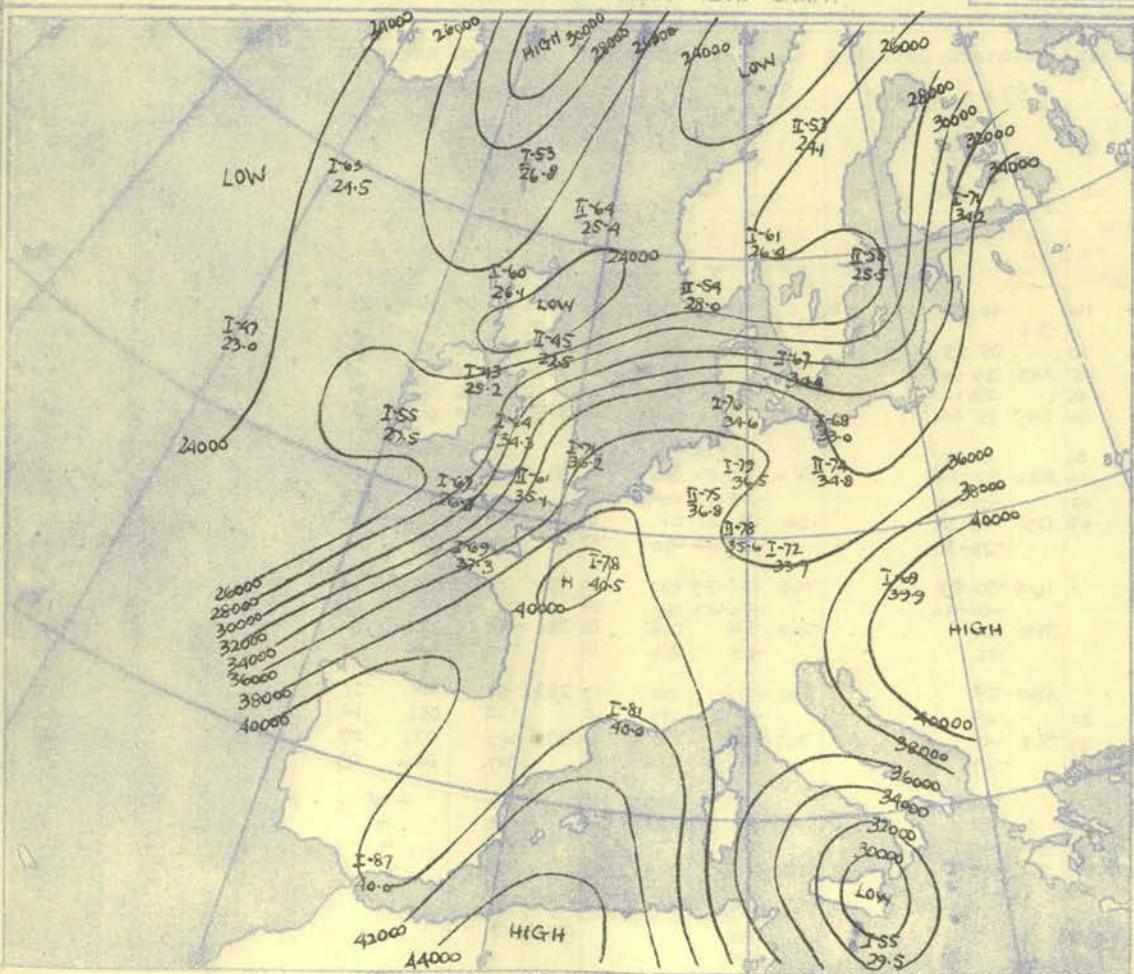
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

Ship	WEATHER EXPLORER				WEATHER EXPLORER				WEATHER EXPLORER				WEATHER EXPLORER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				Ship
Lat/Long	52-6N 20-1W				52-7N 19-7W				52-5N 19-7W				52-7N 20-1W				59-1N 19-2W				59-0N 19-2W				58-9N 19-1W				58-9N 19-0W				Lat/Long
Pressure (Time M.S.L. Surf Freezing)	03h. G.M.T. 991 mb 991 mb 910 mb				09h. G.M.T. 992 mb 992 mb 940 mb				15h. G.M.T. 994 mb 994 mb 930 mb				21h. G.M.T. 993 mb 993 mb 935 mb				03h. G.M.T. 988 mb 988 mb 940 mb				09h. G.M.T. 987 mb 987 mb 930 mb				15h. G.M.T. 988 mb 988 mb 920 mb				21h. G.M.T. 993 mb 993 mb 900 mb				G.M.T. mb



The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

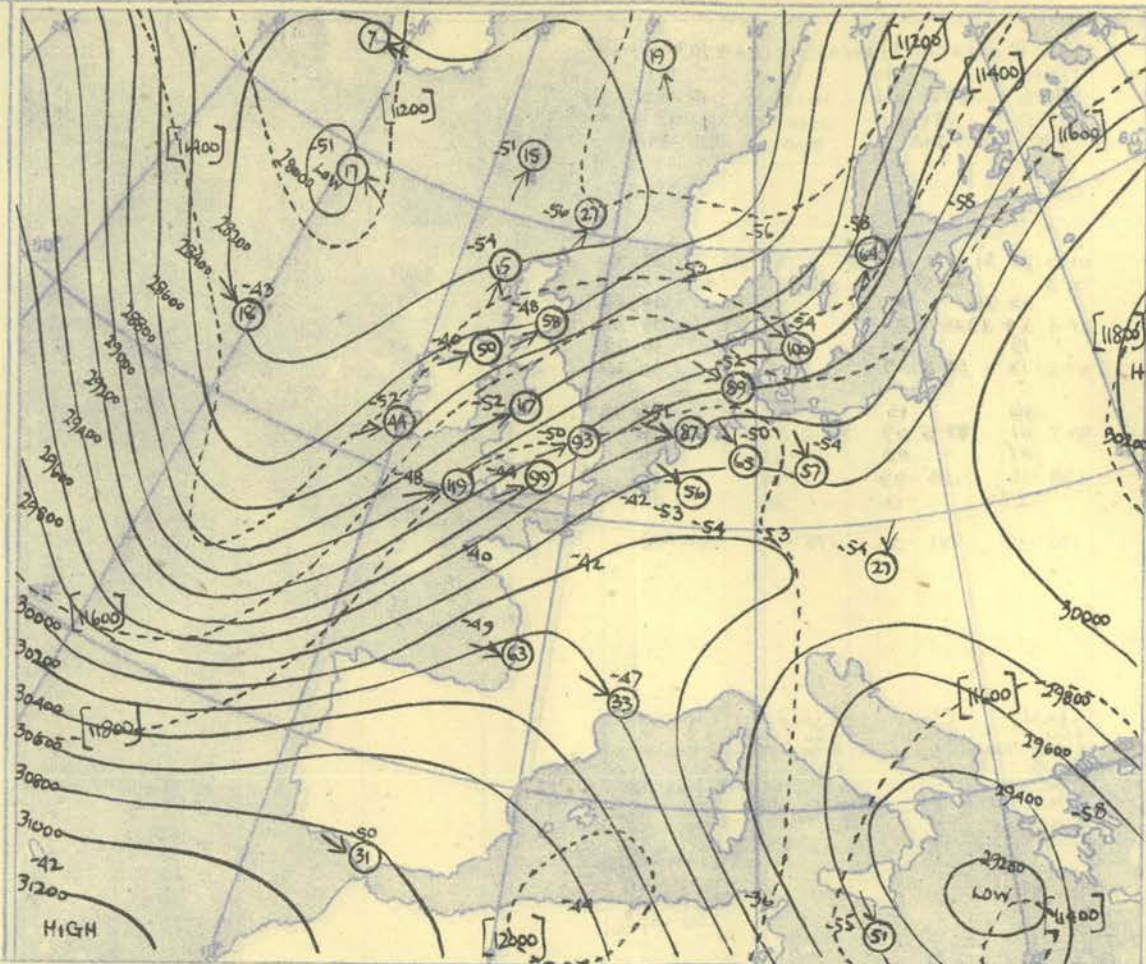
TROPOPAUSE CHART at about 15h. G.M.T.



Contour lines of Height of Tropopause.
Temperature of Tropopause.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

100 80 60 40 20 10 0 p. knots



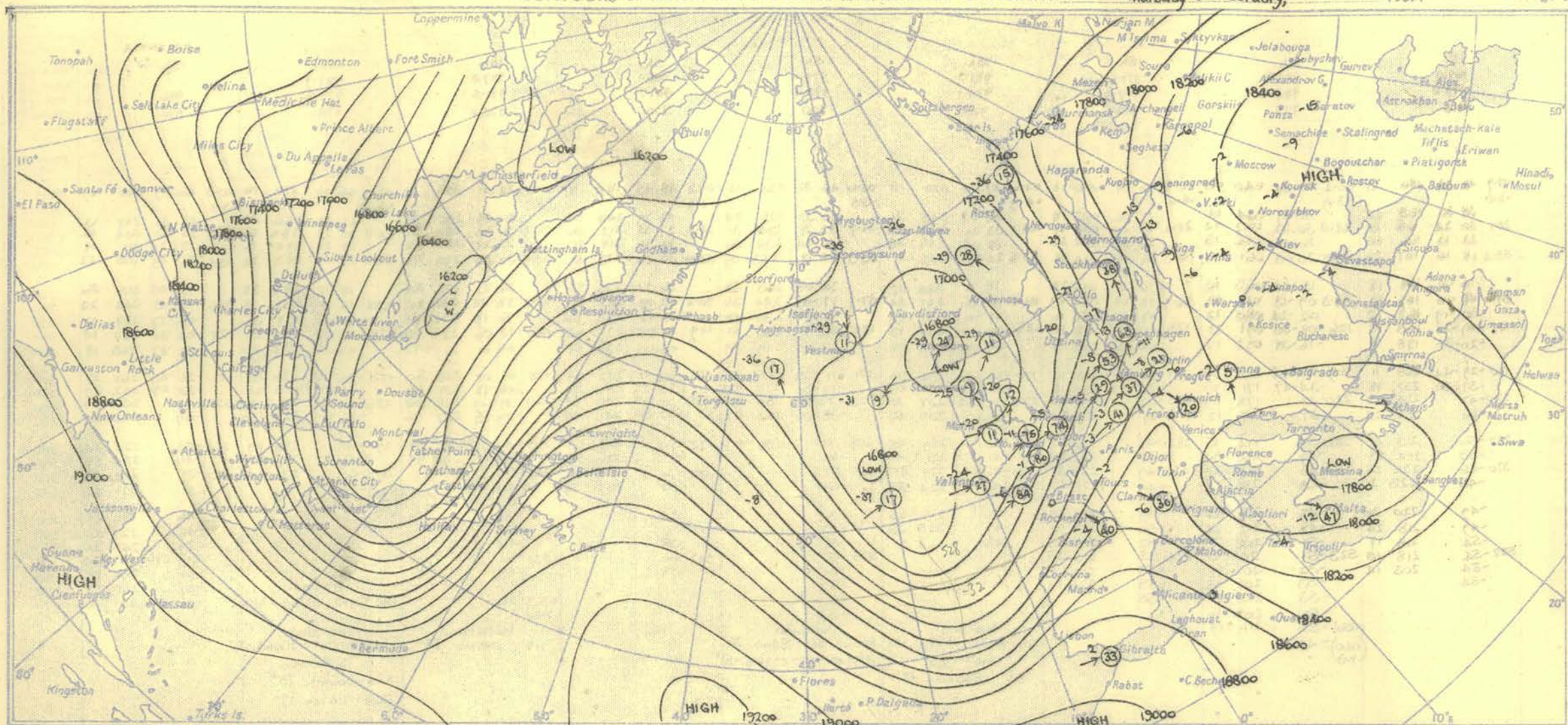
The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

NOTES ON THE AEROLOGICAL SITUATION.

The warm ridge extending north across the western British Isles moved steadily eastwards to North Germany. Over the Atlantic a strong southerly advection produced a very sharp cold trough with thickness values falling very low. This trough extended steadily towards Biscay with a strong cyclonic vorticity developing in this area.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

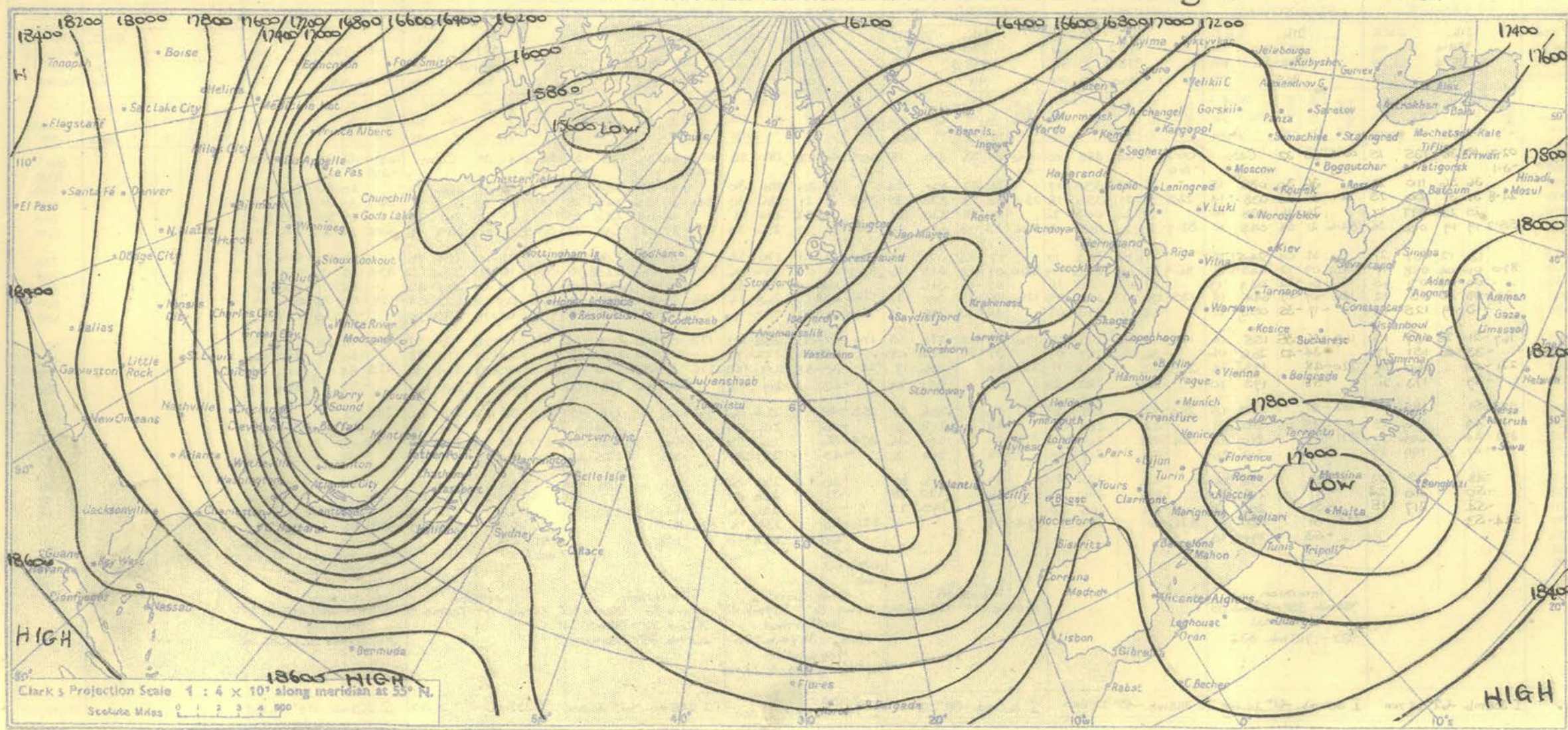
Meteorological Office, Air Ministry, Kingsway, London, W.C.2.
NELSON M. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T.

February 8th

1951.



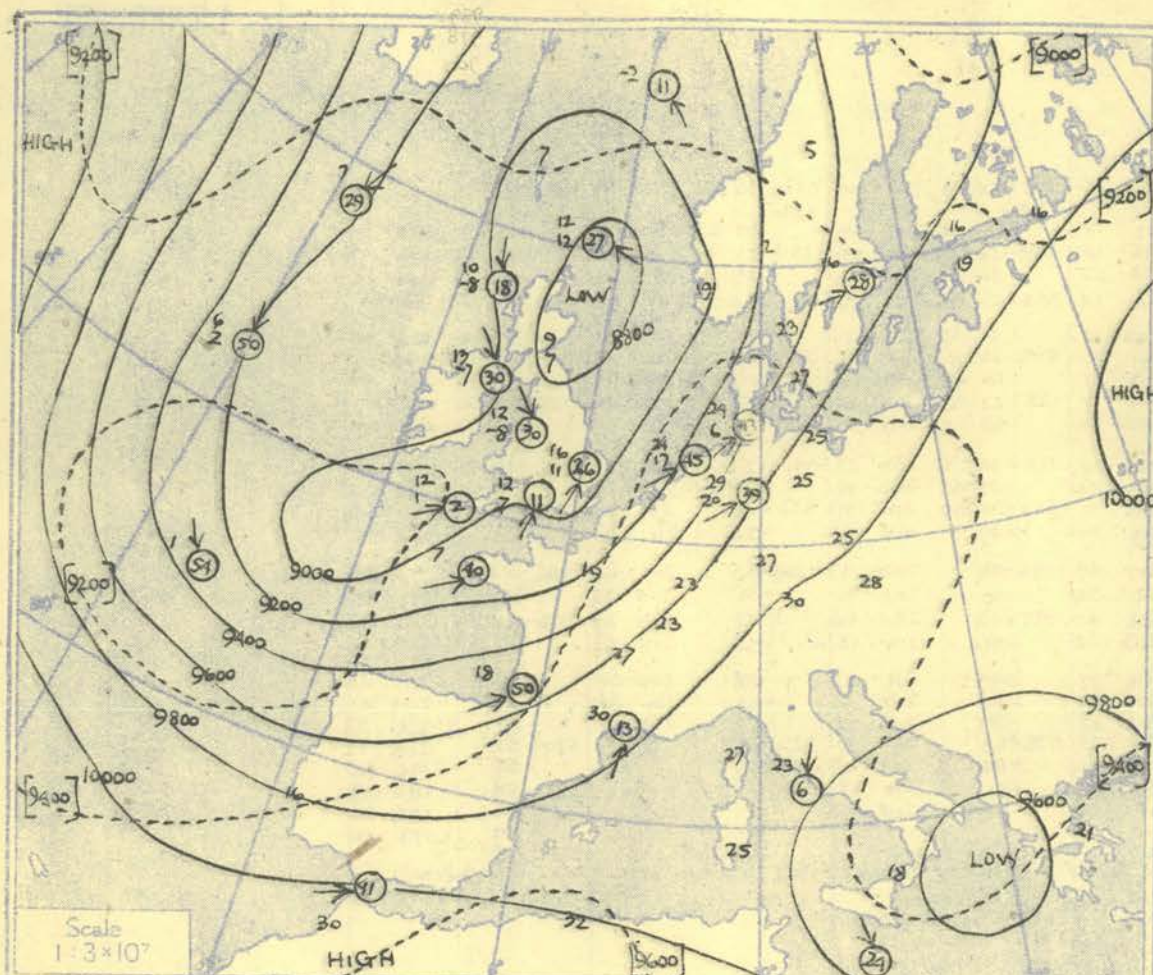
Clark's Projection Scale 1 : 4 x 10⁷ along meridian at 55° N.
Scale Miles 0 1 2 3 4 500

[illegible]

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION						
Pressure mb	Time M.S.L. Surf Pressure	03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		Pressure mb	Time M.S.L. Surf Pressure									
		982.2	mb			988.1	mb			983.4	mb			988.8	mb			986.7	mb			985.3	mb			986.5	mb					989.5	mb							
		972.0	mb			986.5	mb			982.5	mb			979.7	mb			984.6	mb			983.8	mb			970.4	mb					978.9	mb							
911		mb				909		mb		913		mb		881		mb		922		mb		897		mb		911		mb		900		mb								
Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots					
Surf	02.7	37	37		00.4	33	31	Calm	00.2	38	35		02.6	36	34	330	15	00.6	38	34	320	05	01.2	41	39	180	06	04.4	36	35	050	07	02.9	41	35	020	03			
1000	-8.3				-3.2				-4.5				-2.9					-2.3					-3.2					-3.6								Surf				
950		35	34	For		36	31	347	20		35	32		39	36	347	21		36	30	317	12		39	34	208	10		34	33	053	18		38	31	355	09			
900	23.1	31	31	winds	24.7	32	23	352	18	23.3	30	27	25.2	35	30	341	23	24.3	29	24	316	15	24.9	30	26	203	09	24.3	31	29	028	18	25.2	32	28	350	08			
850		29	29			26	22	00.4	17		26	24		28	18	333	22		24	16	314	12		30	22	215	11		29	26	008	21		30	23	332	06			
800	53.7	25	25		55.3	20	13	009	17	53.9	20	19	56.0	26	05	333	27	54.7	22	01	311	14	55.6	25	16	222	16	55.0	24	21	050	07	56.1	25	15		30	23	332	06
750		19	19	See		16	01	359	18		15	14		20	05	332	33		17	03	305	23		21	13	223	21		18	15	145	07		19	09	324	05			
700	87.7	12	12		89.1	10	08	359	18	87.8	09	07	90.2	13	07	324	30	88.7	12	08	301	30	89.8	16	11	218	26	89.0	12	07	202	11	90.1	12	01	244	02			
650		05	04	page		03	15	352	15		03	00		05	13	314	31		05	16	298	27		10	06	218	30		06	01	203	11		07	12	367	05			
600	126	03	04		127	07	24	346	15	126	04	09	128	04	21	310	26	127	05	26	286	17	128	02	03	215	40	127	02	08	207	16	128	01	20	029	07			
550		11	12	3.		18	30	343	16		12	20		14	32	310	27		14	34	273	22		05	15	213	55		11	18	223	21		11	23	036	09			
500	170	21	22		170	28	36	352	08	169	21	28	172	26	44	304	33	170	22	43	274	32	172	14	35	209	75	171	21	29	231	21	172	18	25	028	07			
450		23	34			37	43		06		32	38		34	52	290	39		34	54	268	33		25	43	203	90		32	40	246	14		25	30	232	05			
400	219	46			220	49			06	220	45		222	48		285	45	221	46		235	51	224	37	57	201	91	222	44		227	07	224	39	44	187	08			
350		57				61			05		55			56					57		219	59		47		198	91		54		211	40		53		144	18			
300	281	53			282	55			07	283	47		284	55				283	48		207	49	288	48		203	93	284	53		209	63	286	54		173	31			
250		48				47			14		45			44					46		221	54		50		203	90		51		204	75		47		197	42			
200	370	50			371	49			17	372	47		374	43				372	50		218	42	377	45		224	60	373	45		223	39	376	44		208	56			
170		52				47			13		48			48					45		203	52		51		219	48		54		213	50		41		223	45			
150		49				49			21		49			48					46		212	37		49		211	53		58		200	51		41		215	36			
130		51				48			15		51			48					56		207	29		55		207	50		63		206	34		44		209	41			
110		58				55			13		54			52					60		194	33		59		205	32		64		203	21		51		206	33			
100	520	58			523	53			15	524	52		526	54				528	59		194	22	528	63		205	27	522	67		198	68		529	52		196	24		
90		59				53			10		57			54					61		193	20		62		206	25		68					58		184	33			
80		61				55			15					58					63		197	22		63		210	18						61		186	26				
70		62												56					62		213	14		63		208	15						59		197	10				
60																																								
Inversion					Inversion					Inversion					Inversion					Inversion					Isothermal					Isothermal					Isothermal					
987mb. 33° - 971mb. 38°					980mb. 36° - 946mb. 40°					863mb. 24° - 840mb. 25°					863mb. 24° - 840mb. 25°					984mb. 41° - 970mb. 42°					907 - 880mb. 31°					(053) mb Isothermal					680 - 663mb. 09°					
831 - 800mb. 26°					831 - 800mb. 26°					831 - 800mb. 26°					831 - 800mb. 26°					882 - 843mb. 30°					882 - 843mb. 30°					882 - 843mb. 30°					882 - 843mb. 30°					
500 - 490mb. 26°					500 - 490mb. 26°					500 - 490mb. 26°					500 - 490mb. 26°					985 - 970mb. 38°					985 - 970mb. 38°					985 - 970mb. 38°					985 - 970mb. 38°					
Tropopause					Tropopause					Tropopause					Tropopause					Tropopause					Tropopause					Tropopause					Tropopause					
I 364mb. -51° 23,800'					I 348mb. -62° 25,000'					I 367mb. -54° 23,900'					I 353mb. -56° 25,000'					I 331mb. -61° 26,200'					I 344mb. -48° 25,700'					I 367mb. -54° 24,000'					I 330mb. -58° 26,500'					
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION						
Pressure mb	Time M.S.L. Surf Pressure																																							

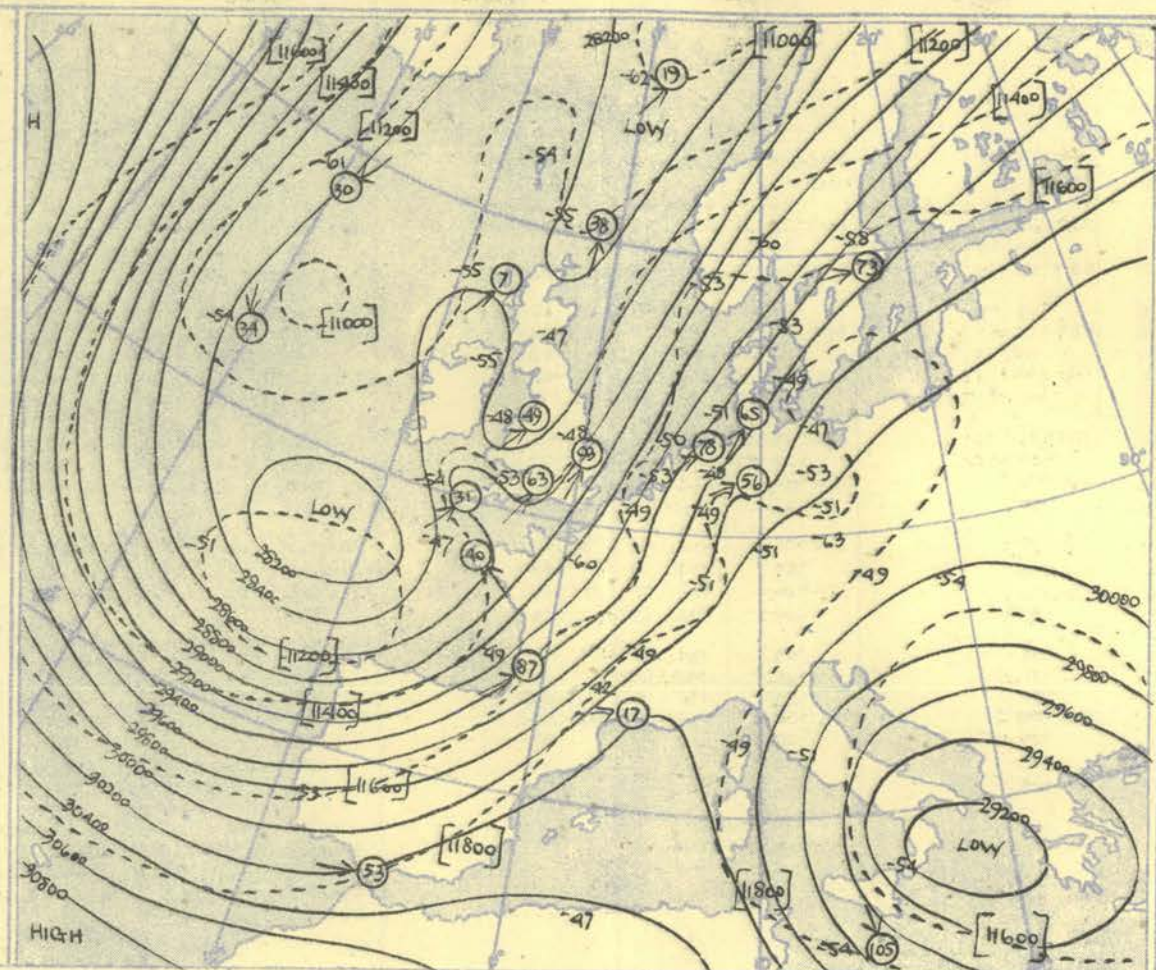
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h G.M.T.



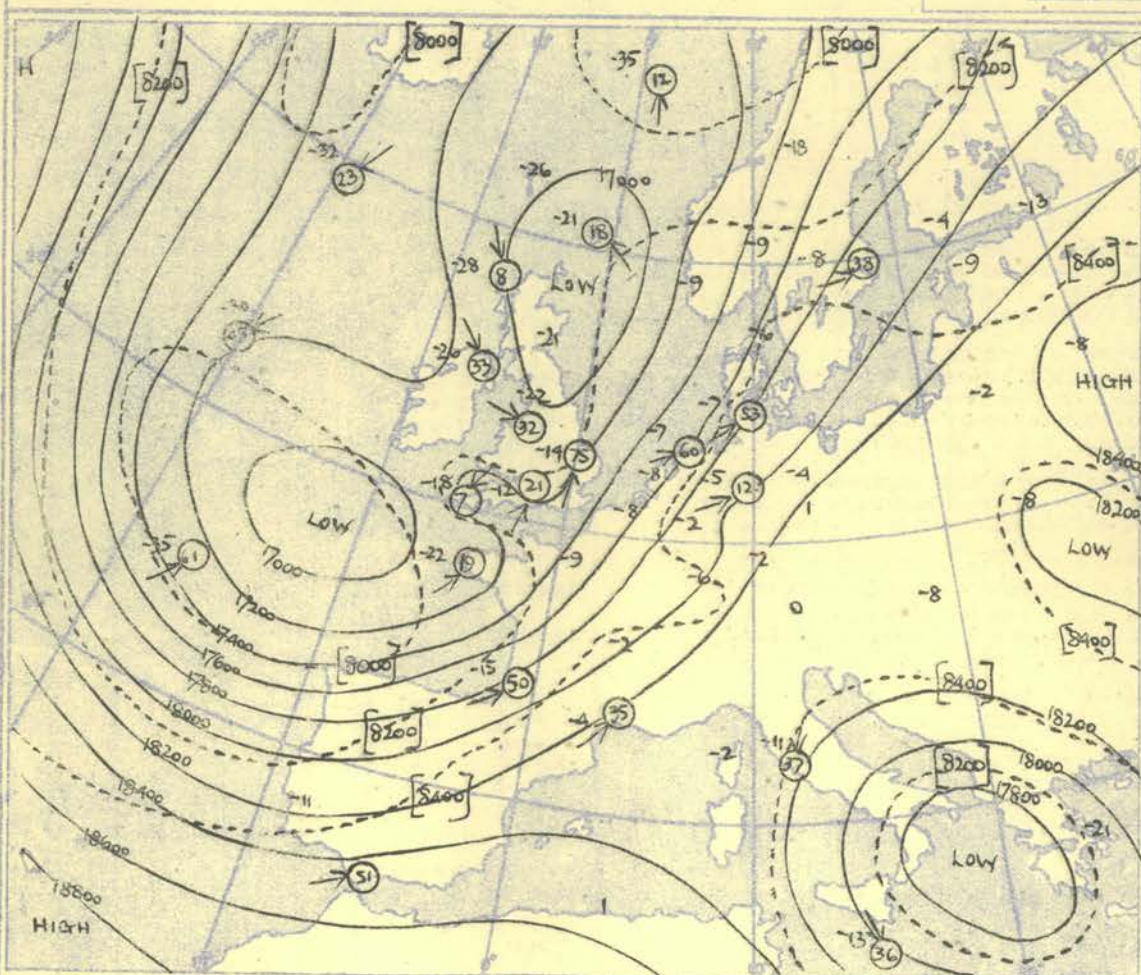
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. $52\frac{1}{2}^\circ$ N.

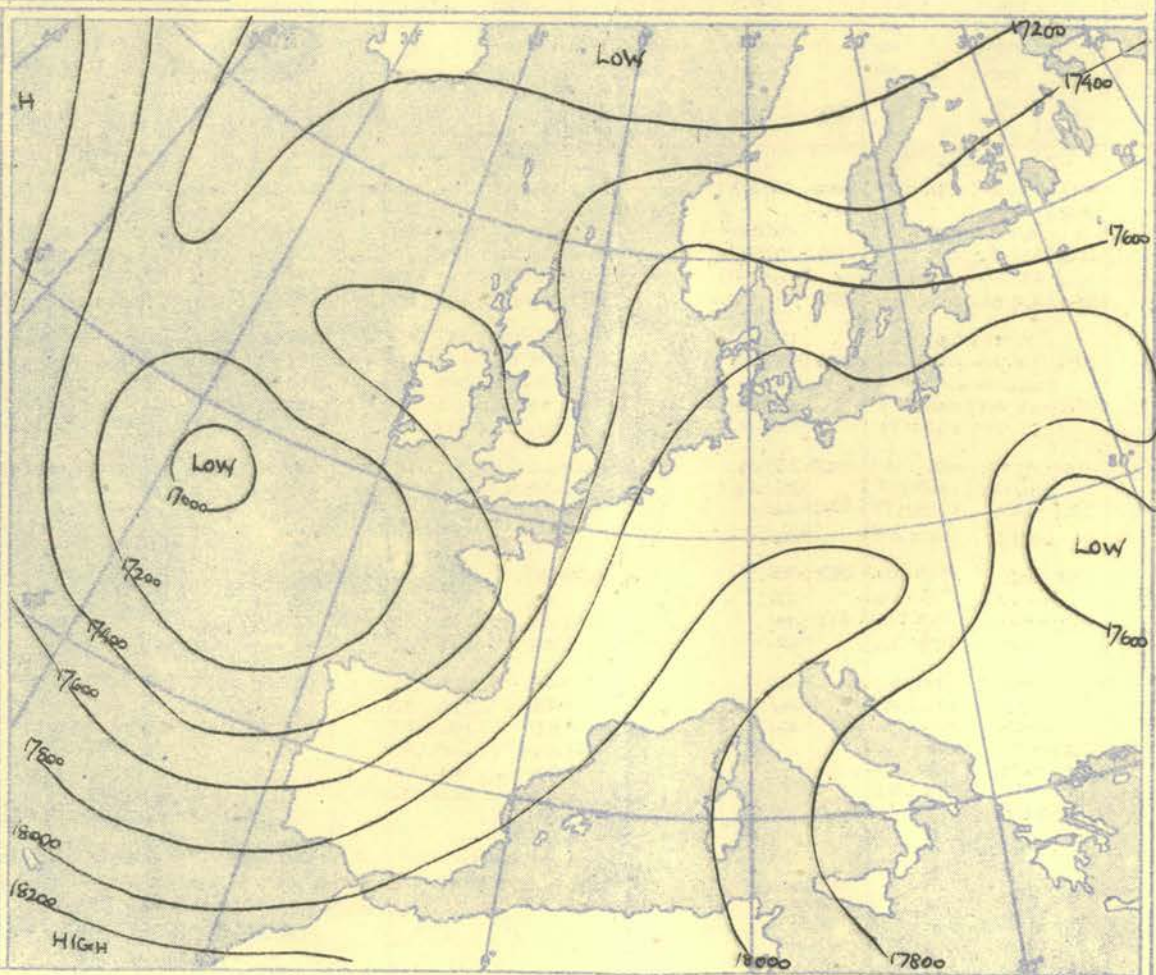
100 80 60 40 20 10 knots



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb.



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



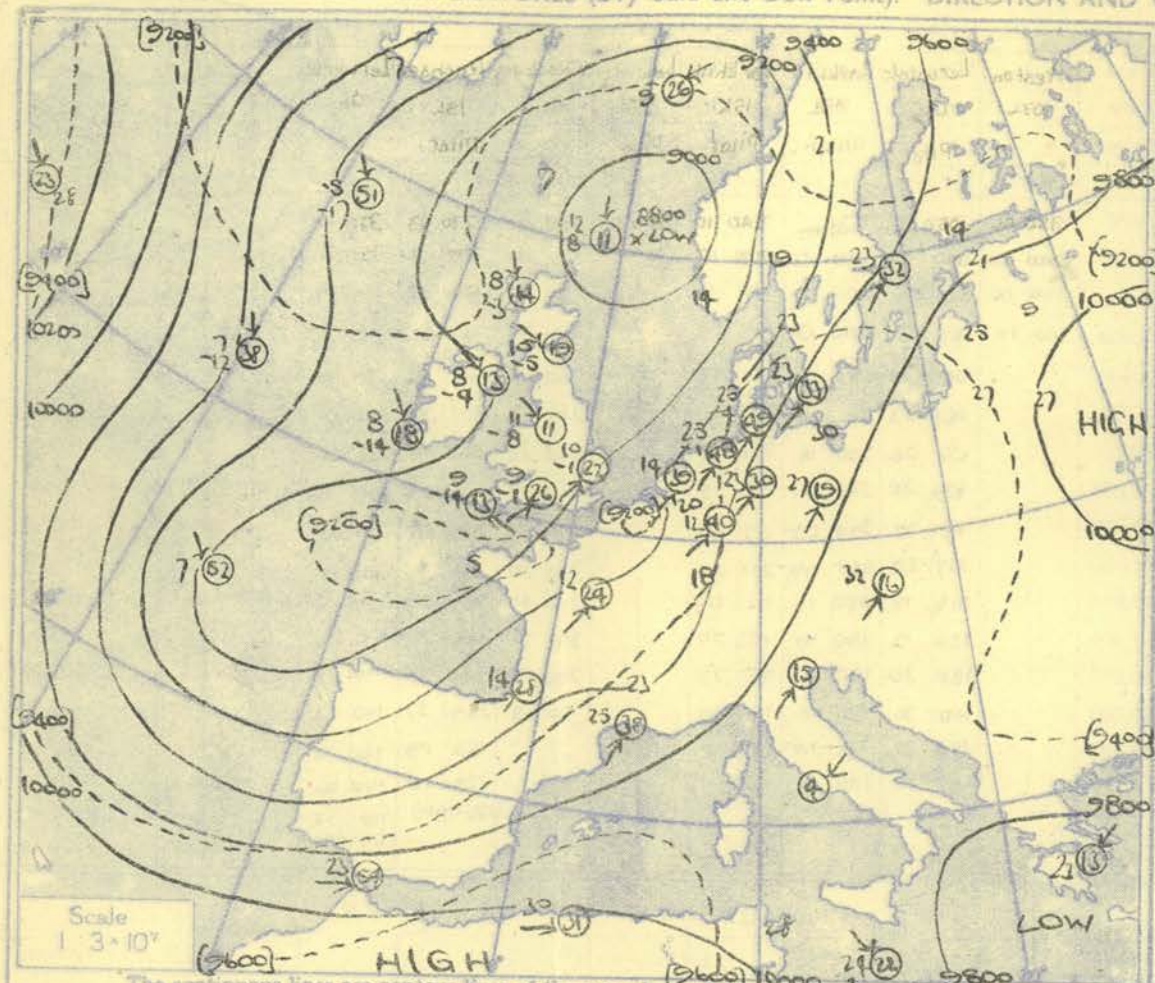
Isopleths of Thickness 500-1000mb.

DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above 6,500 M.S.L.

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

Ship	WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				Ship
Lat/Long	59°1N 18°9W				59°0N 18°0W				59°0N 18°9W				59°2N 18°8W				52°6N 20°1W				52°5N 19°9W				52°0N 20°3W				52°1N 20°0W												Lat/Long
Pressure	Time	03L		G.M.T.	09L		G.M.T.	15L		G.M.T.	21L		G.M.T.	03L		G.M.T.	09L		G.M.T.	15L		G.M.T.	21L		G.M.T.							G.M.T.	Time								
	M.S.L.	1000		mb	1005		mb	1009		mb	1012		mb	997		mb	1005		mb	1013		mb	1016		mb							mb	M.S.L.								
	Surf	1000		mb	1005		mb	1009		mb	1012		mb	997		mb	1005		mb	1013		mb	1016		mb							mb	Surf								
	Freezing	910		mb	930		mb	965		mb	910		mb	900		mb	875		mb	900		mb	920		mb							mb	Freezing								
Pressure	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Pressure								
	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	mb								
Surf	0	43	35	360 20	13	41	36	335 27 24	40	27	340 34	3-2	41	40	30	354 30	44	34	340 36	1-4	47	39	360 28	3-4	49	40	340 33	4-2	43	34	354 39	Surf									
1000																																1000									
950		37	31	007 23	34	30	344 36	31	19	338 46	35	31	003 40	30	354 50	40	34	340 36	3-4	46	38	360 28	3-4	45	37	343 33	4-2	43	34	354 39	950										
900	28-0	31	22	003 26	28	24	343 45	30-1	25	13 338 51	31-1	28	20 009 40	27-2	32	24 001 55	29-6	36	31 360 54	31-5	32	25 358 52	31-5	32	25 358 52	31-5	32	25 358 52	31-5	32	25 358 52	900									
850		26	18	003 23	22	20	339 45	18	06	394 51	21	13	018 42	25	20	005 56	20	28	25 003 58	26-1	26	21 353 52	26-1	26	21 353 52	26-1	26	21 353 52	26-1	26	21 353 52	850									
800	58-6	20	13	006 24	59-5	17	11	340 33	60-2	11	03 354 51	61-4	17	02 023 45	57-8	20	15 003 51	60-4	22	19 007 58	62-1	20	09 352 56	62-5	17	10 353 48					800										
750		14	04	015 27	12	05	343 33	03	05	349 51	11	12	020 38	23	09	360 50	16	09	010 48	15	03	352 46	12	03	354 41							750									
700	92-4	07	04	015 24	93-0	05	01	342 31	93-2	05	17 347 51	94-8	03	14 020 36	91-6	06	02 360 50	94-3	10	00 013 57	95-9	07	12 352 38	96-1	05	16 354 42						700									
650		02	12	010 26	03	08	331 38	13	26	349 46	04	24	039 30	02	06	360 50	02	08	015 40	00	11	352 44	03	24	357 48							650									
600	130	11	18	009 27	131	11	23	324 30	130	23	36 351 46	132	11	31 082 30	120	10	14 348 65	132	08	26 018 43	134	09	27 352 41	134	12	33 350 41						600									
550		21	28	004 32	21	38	327 33	29	43	355 42	17	38	043 36	18	23	357 47	17	30	015 45	19	38	354 32	21	42	338 35							550									
500	173	32	40	013 23	173	31	47	321 34	172	24	41 355 63	175	26	47 042 45	172	30	38 025 45	175	27	34 008 45	177	30	45 357 34	176	30	51 336 37							500								
450		43		016 26	42			336 31	41	31	49 340 72	42	32	57 033 54	42		42 016 41	42	52	008 42	41		41 357 39	44	54	343 45							450								
400	222	51		016 26	223	50		342 35	223	40	60 334 66	226	38	58 017 71	222	55	003 33	225	52	017 59	226	50	354 40	227	44	359 47							400								
350		59		011 28	56			348 36	50		350 58		45	358 77		61	014 44		58	020 60		53	352 58		50	006 75							350								
300	284	61		010 30	285	57		354 42	286	58	357 54	290	51	355 78	284	54	348 34	287	58	013 57	289	54		289	56	007 109							300								
250		55		009 36	57			358 46	61		342 57		55	009 76	48	328 43		53	010 53	275	55			67	008 103							250									
200	372	48		014 23	372	58		005 37	372	59		377	60	357 57	372	52	333 26	375	53	013 40	mb			375	67	006 65							200								
170		52		350 17					61				61	013 39	49		358 35		54	010 27					66	001 66							170								
150		54		325 14					60				61	012 26	49		358 15		51	010 26					66	360 60							150								
130		54		328 15					60				60	016 27	49		358 0		54	020 22					65	359 55							130								
110		53		014 15					61				59	017 10	49		358 08		55	345 15					64	358 76							110								
100	522	53		" " " " " " " "					62				58	017 09	524	50	358 05	525	53					64	358 40								100								
90		53							62				57												65								90								
80		53							62																									80							
70									61																									70							
60									59																									60							
									56																																

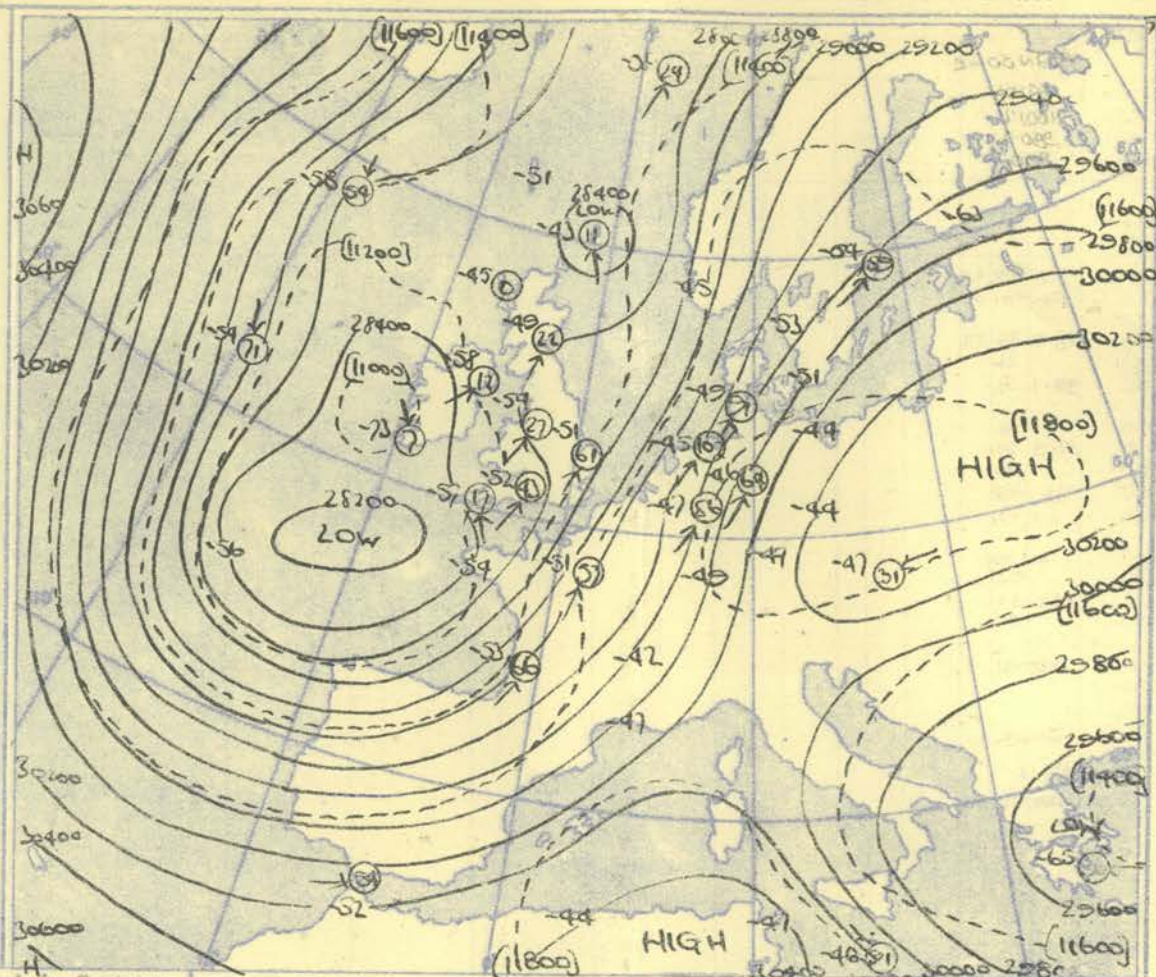
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15 h G.M.T.



TROPOPAUSE CHART at about 15h. G.M.T.

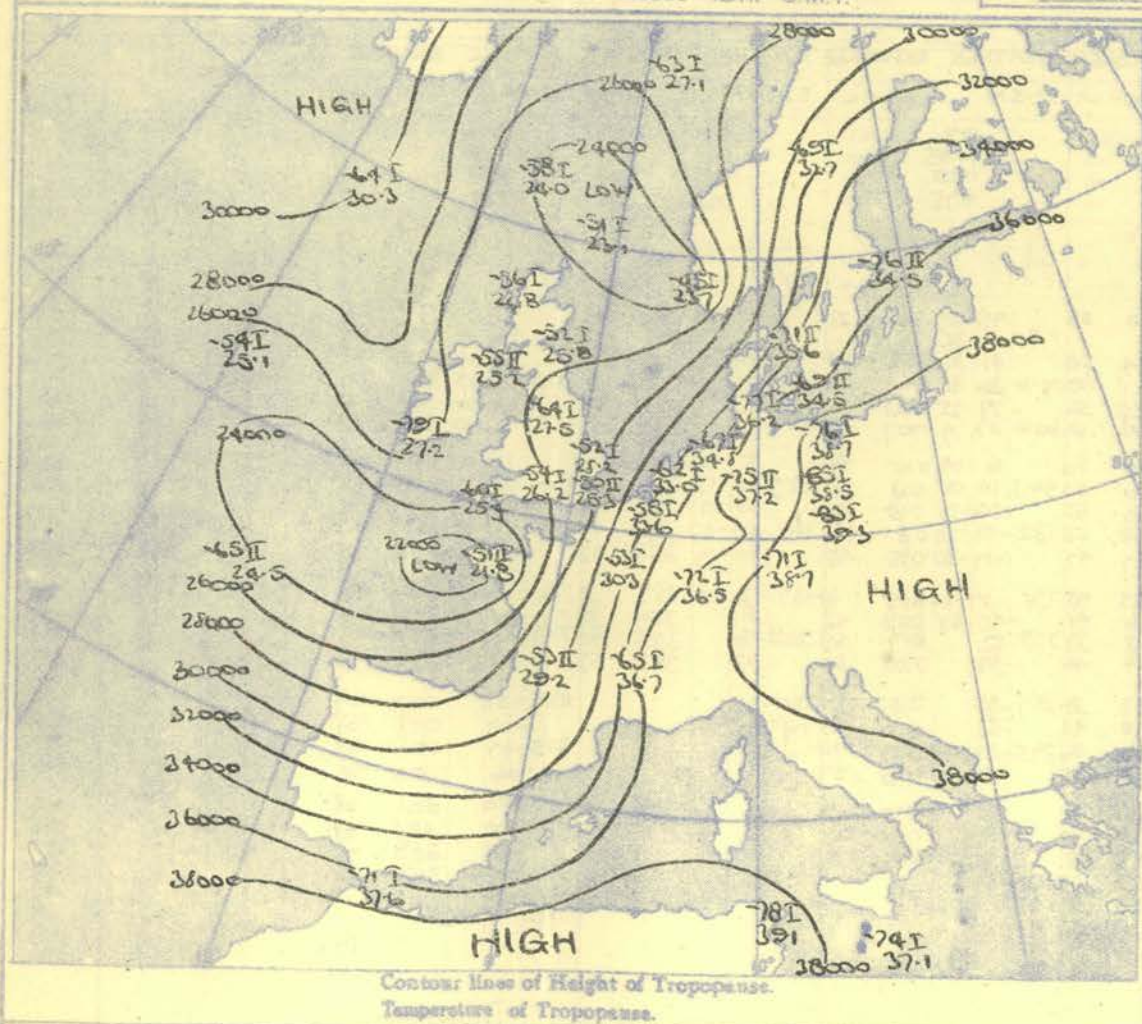
Gradient Wind Scale for Contours at intervals of 200 ft. at Lat. 52° N.

100 80 60 40 20 10 knots



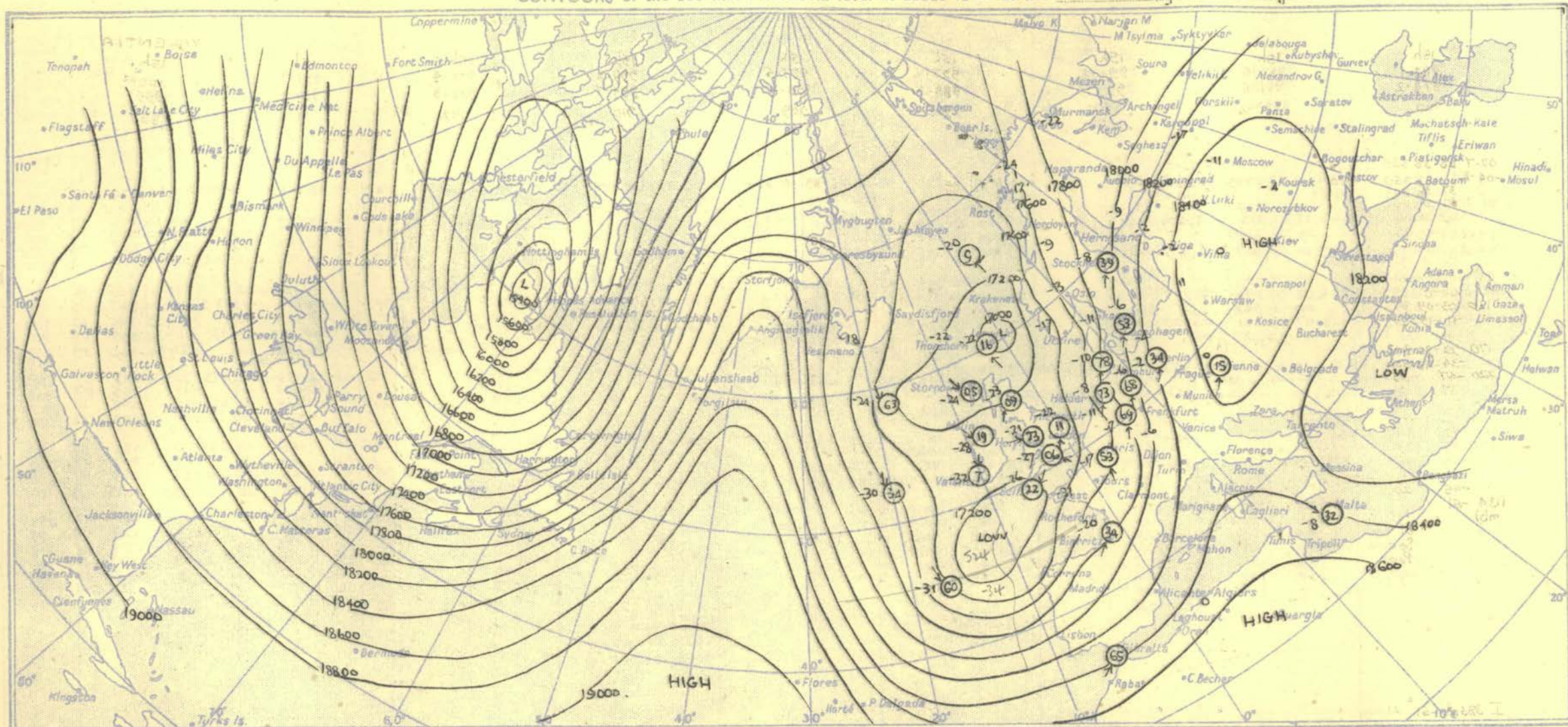
NOTES ON THE AEROLOGICAL SITUATION.

The cold trough in the Eastern Atlantic persisted and detached cold pools formed in the South, one moving in over Northwest France and the Channel later in the day. A very pronounced warm ridge in the Western Atlantic moved steadily east with a very strong Southerly thermal gradient on its western side.



RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

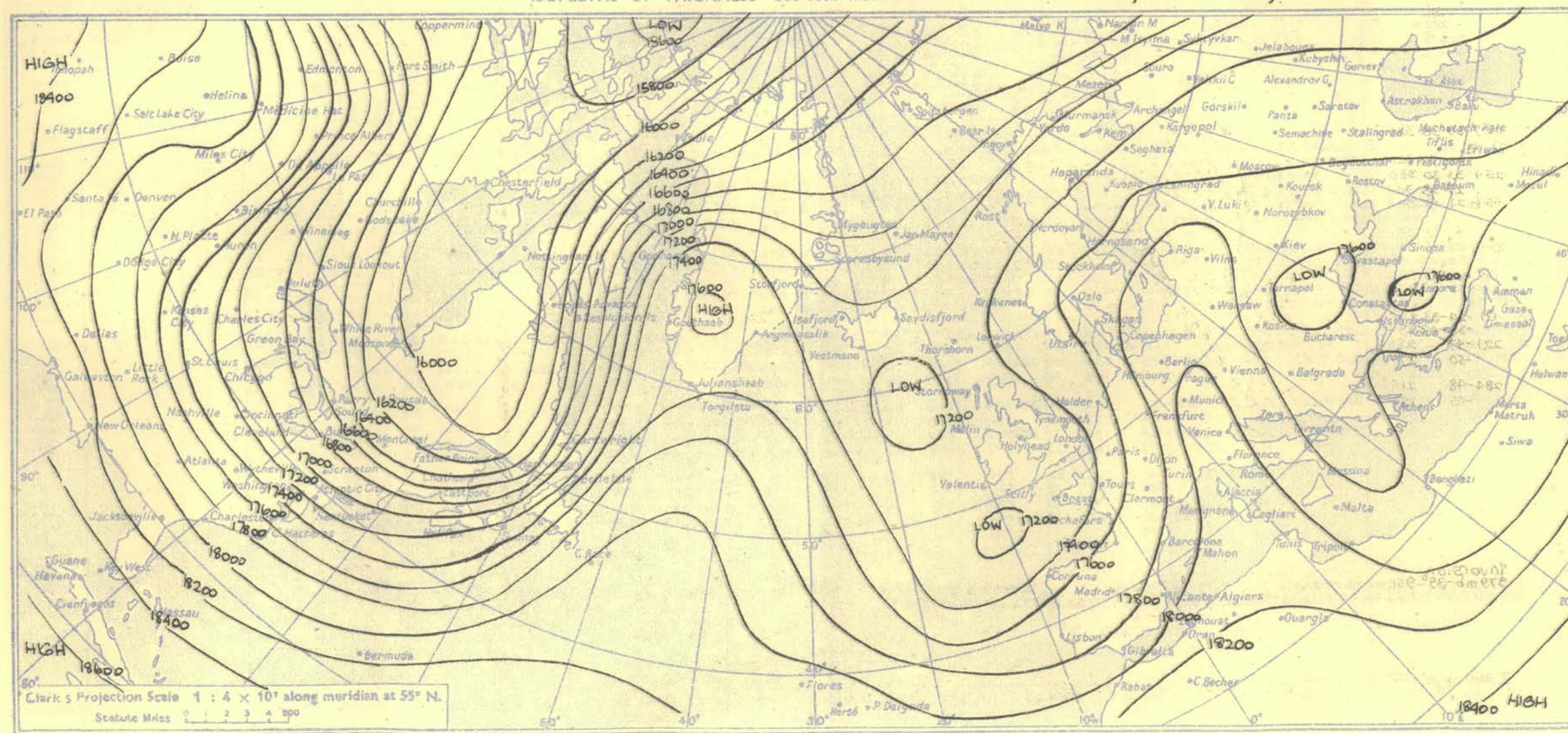
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T.

Friday 9th February

1951.



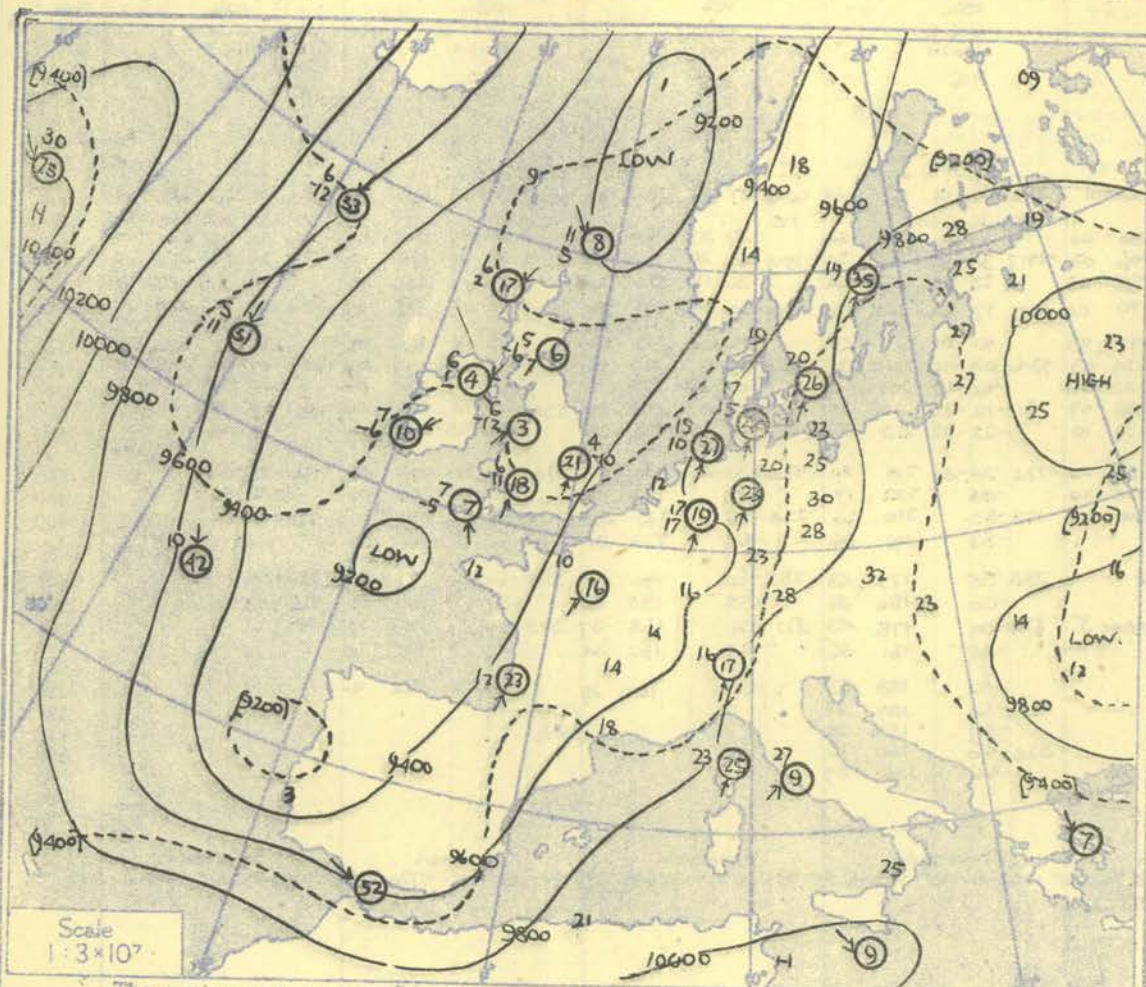
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

[illegible]

121

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION										
Pressure	Time	03h.	G.M.T.		03h.	G.M.T.		03h.	G.M.T.		03h.	G.M.T.		03h.	G.M.T.		03h.	G.M.T.		03h.	G.M.T.		03h.	G.M.T.		03h.	G.M.T.		03h.	G.M.T.	Time																
	M.S.L.	996.0	mb		1003.0	mb		1003.5	mb		1003.8	mb		1004.0	mb		1006.6	mb		1005.7	mb		1002.6	mb		1002.6	mb		1003.0	mb	M.S.L.																
	Surf	986.0	mb		1001.3	mb		1002.6	mb		994.2	mb		1001.9	mb		1002.1	mb		989.3	mb		991.9	mb		991.9	mb		1003.0	mb	Surf																
	Freezing	888	mb		922	mb		918	mb		927	mb		911	mb		916	mb		908	mb		892	mb		892	mb		930	mb	Freezing																
Pressure	Height	ft./100	Temp.	Dew	Height	ft./100	Temp.	Dew	Height	ft./100	Temp.	Dew	Height	ft./100	Temp.	Dew	Height	ft./100	Temp.	Dew	Height	ft./100	Temp.	Dew	Height	ft./100	Temp.	Dew	Height	ft./100	Temp.	Dew	Pressure														
	mb		°F.	°F.			°F.	°F.			°F.	°F.			°F.	°F.			°F.	°F.			°F.	°F.			°F.	°F.			mb																
Wind	Dir.	Vel.			Dir.	Vel.			Dir.	Vel.			Dir.	Vel.			Dir.	Vel.			Dir.	Vel.			Dir.	Vel.			Dir.	Vel.	Wind																
		knots				knots				knots				knots				knots				knots				knots				knots																	
Surf	02.7	38	38	Calm	00.4	38	38	Calm	00.2	30	29	Calm	02.6	30	29	Calm	00.6	33	31	Calm	01.2	36	34	160	08	04.4	37	35	230	07	02.9	37	34	135	02	00.3	33	30	060	05							
	1000	11			0.8	38	38		0.9	30	29		0.0				1.1	34	31		1.8	36	34			1.5	37	33	195	15	0.8	40	32	170	13	1.1	34	31	058	05							
950	27.0	34	29	L.V.	28.7	30	28	008	22	28.7	30	23	236	06	28.8	29	26	Calm	28.9	30	25	196	03	29.7	30	26	214	24	29.5	31	26	203	19	28.9	33	27	178	10	28.9	29	24	034	10				
	900	27	23	L.V.	28.5	23	015	23	24	16	238	07	24	20	068	03	23	21	188	03	23	21	212	24	26	19	210	21	26	19	210	20	26	19	180	10	24	20	036	12							
850	27.6	21	19	L.V.	29.2	19	17	019	21	29.1	17	12	246	07	29.3	18	14	062	04	29.3	17	15	170	04	30.1	17	12	208	24	29.9	20	16	215	20	29.4	19	08	178	08	29.4	20	13	038	11			
	800	16	12	330	08	13	10	027	22	12	04	228	05	12	07	035	04	13	01	192	03	10	01	207	23	12	01	215	16	14	04	165	06	14	04	165	06	14	04	165	06						
750	91.5	11	05	330	08	92.8	06	02	022	17	92.7	05	06	214	05	92.9	06	01	023	04	92.9	06	12	229	03	93.6	04	10	204	21	93.5	06	11	213	18	93.1	07	05	157	07	93.1	07	06	038	10		
	700	06	03	335	06	02	07	017	13	02	18	224	09	03	10	025	04	00	18	243	06	00	18	243	06	04	13	201	21	04	13	201	21	04	13	201	21	04	13	201	21	04	13	201	21		
650	130	00	11	310	08	130	10	15	018	13	130	09	21	231	09	130	11	21	007	04	131	10	28	238	07	131	12	23	210	21	131	10	30	214	22	131	07	14	100	06	131	08	18	041	09		
	600	11	19	304	12	130	18	24	028	15	18	29	242	09	18	29	242	09	18	29	242	09	18	29	242	09	18	29	242	09	18	29	242	09	18	29	242	09	18	29	242	09	18	29	242	09	
550	173	21	31	285	12	173	28	35	047	14	173	28	39	L.V.	173	32	42	025	01	173	28	45	236	12	174	33	40	218	20	174	30	47	222	30	174	28	36	095	08	174	28	36	095	08			
	500	33	41	259	12	173	39	45	038	17	173	39	48	L.V.	173	44		171	01	173	39	54	225	10	174	45		222	17	174	42		225	47	174	40	49	100	09	174	36	45		100	09		
450	224	45		246	13	223	51		042	24	223	45		179	07	223	55		194	05	223	54		211	07	223	53		210	25	224	55		227	52	224	53		065	11	224	46		065	11		
	400	49		240	12	223	54		057	15	223	45		179	07	223	55		194	05	223	54		211	07	223	53		210	25	224	55		227	52	224	53		065	11	224	46		065	11		
350	287	50		198	15	285	55		083	03	286	52		176	18	284	56		125	07	285	55		177	43	285	60		190	28	285	60		177	14	285	60		177	14	285	60		177	14		
	300	45		193	20	285	55		072	09	286	52		176	18	284	56		125	07	285	55		177	43	285	60		190	28	285	60		177	14	285	60		177	14	285	60		177	14		
250	377	43		186	16	374	46		104	09	376	42		169	21	373	49		064	12	374	49		178	43	372	51		168	37	372	51		153	17	372	51		153	17	372	51		153	17		
	200	44		180	20	374	46		104	09	376	42		169	21	373	49		064	12	374	49		178	43	372	51		168	37	372	51		153	17	372	51		153	17	372	51		153	17		
170	48			182	22	374	46		104	09	376	42		169	21	373	49		064	12	374	49		178	43	372	51		168	37	372	51		153	17	372	51		153	17	372	51		153	17		
	150	53		183	15	374	46		104	09	376	42		169	21	373	49		064	12	374	49		178	43	372	51		168	37	372	51		153	17	372	51		153	17	372	51		153	17		
130	54	57		183	15	374	46		104	09	376	42		169	21	373	49		064	12	374	49		178	43	372	51		168	37	372	51		153	17	372	51		153	17	372	51		153	17		
	110	57		183	15	374	46		104	09	376	42		169	21	373	49		064	12	374	49		178	43	372	51		168	37	372	51		153	17	372	51		153	17	372	51		153	17		
100	57	57		183	15	374	46		104	09	376	42		169	21	373	49		064	12	374	49		178	43	372	51		168	37	372	51		153	17	372	51		153	17	372	51		153	17		
	90	57		183	15	374	46		104	09	376	42		169	21	373	49		064	12	374	49		178	43	372	51		168	37	372	51		153	17	372	51		153	17	372	51		153	17		
80	57	57		183	15	374	46		104	09	376	42		169	21	373	49		064	12	374	49		178	43	372	51		168	37	372	51		153	17	372	51		153	17	372	51		153	17		
	70	57		183	15	374	46		104	09	376	42		169	21	373	49		064	12	374	49		178	43	372	51		168	37	372	51		153	17	372	51		153	17	372	51		153	17		
60	57	57		183	15	374	46		104	09	376	42		169	21	373	49		064	12	374	49		178	43	372	51		168	37	372	51		153	17	372	51		153	17	372	51		153	17		
	60	57		183	15	374	46		104	09	376	42		169	21	373	49		064	12	374	49		178	43	372	51		168	37	372	51		153	17	372	51		153	17	372	51		153	17		
Inversion	986mb. 38°-966mb. 42°				1001mb. 38°-992mb. 39°				1003mb. 30°-965mb. 38°					994mb. 30°-964mb. 36°					1002mb. 35°-983mb. 40°																												
	986mb. 38°-966mb. 42°				1001mb. 38°-992mb. 39°				1003mb. 30°-965mb. 38°					994mb. 30°-964mb. 36°					1002mb. 35°-983mb. 40°																												
Tropopause	I 375mb. -49° 23,800'				I 350mb. -64° 25,200'				I 331mb. -59° 26,500'					I 343mb. -62° 25,500'					N.R.																												
	I 375mb. -49° 23,800'				I 350mb. -64° 25,200'				I 331mb. -59° 26,500'					I 343mb. -62° 25,500'					N.R.																												
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION										
	Time	09h.	G.M.T.		09h.	G.M.T.		09h.	G.M.T.		09h.	G.M.T.		09h.	G.M.T.		09h.	G.M.T.		09h.	G.M.T.		09h.	G.M.T.		09h.	G.M.T.		09h.	G.M.T.	Time																
Pressure	M.S.L.	1003.1	mb		1007.4	mb		1007.1	mb		1007.1	mb		1007.1	mb		1007.1	mb		1007.1	mb		1007.1	mb		1007.1	mb		1007.1	mb	M.S.L.																
	Surf	992.9	mb		1005.7	mb		10																																							

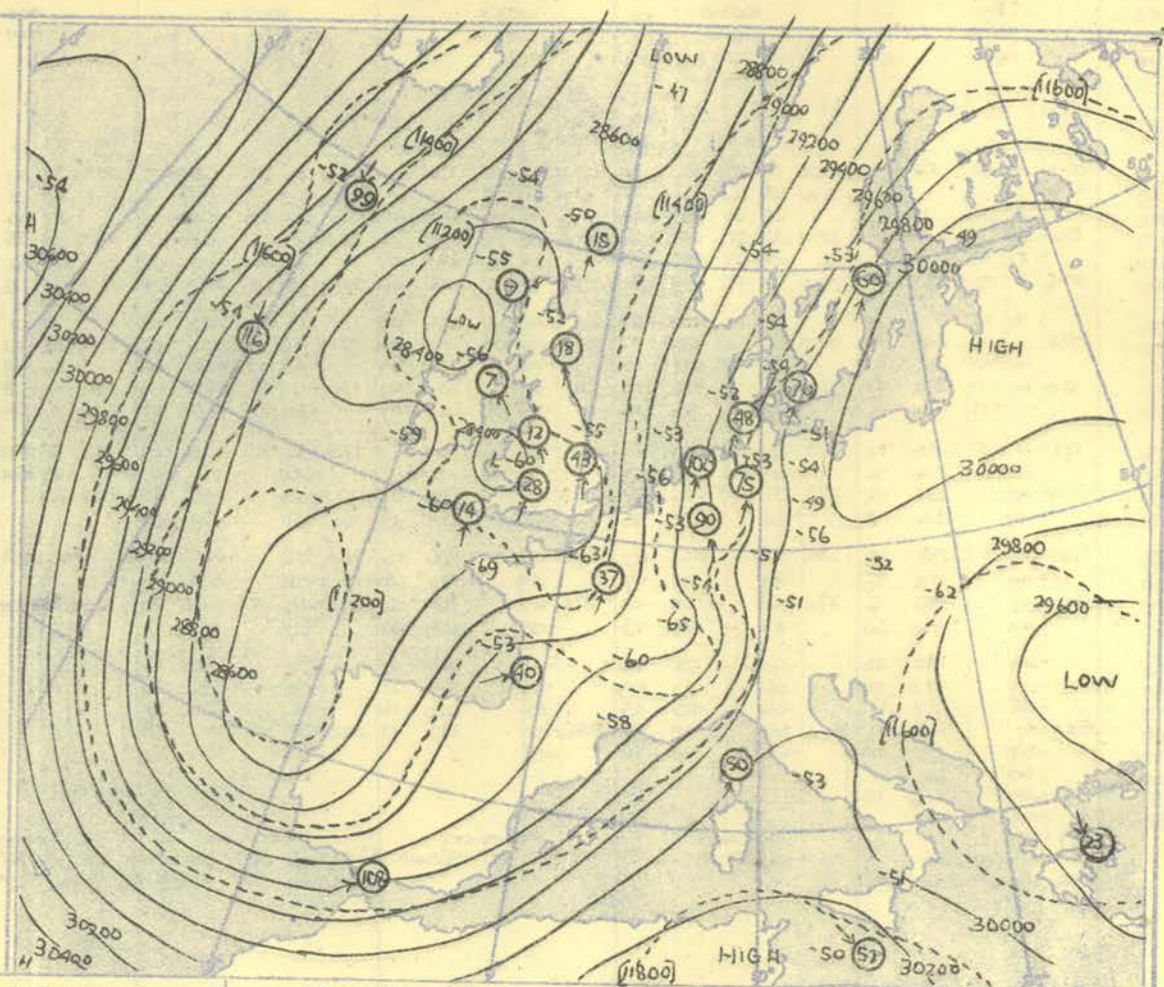
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Points). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03h G.M.T.



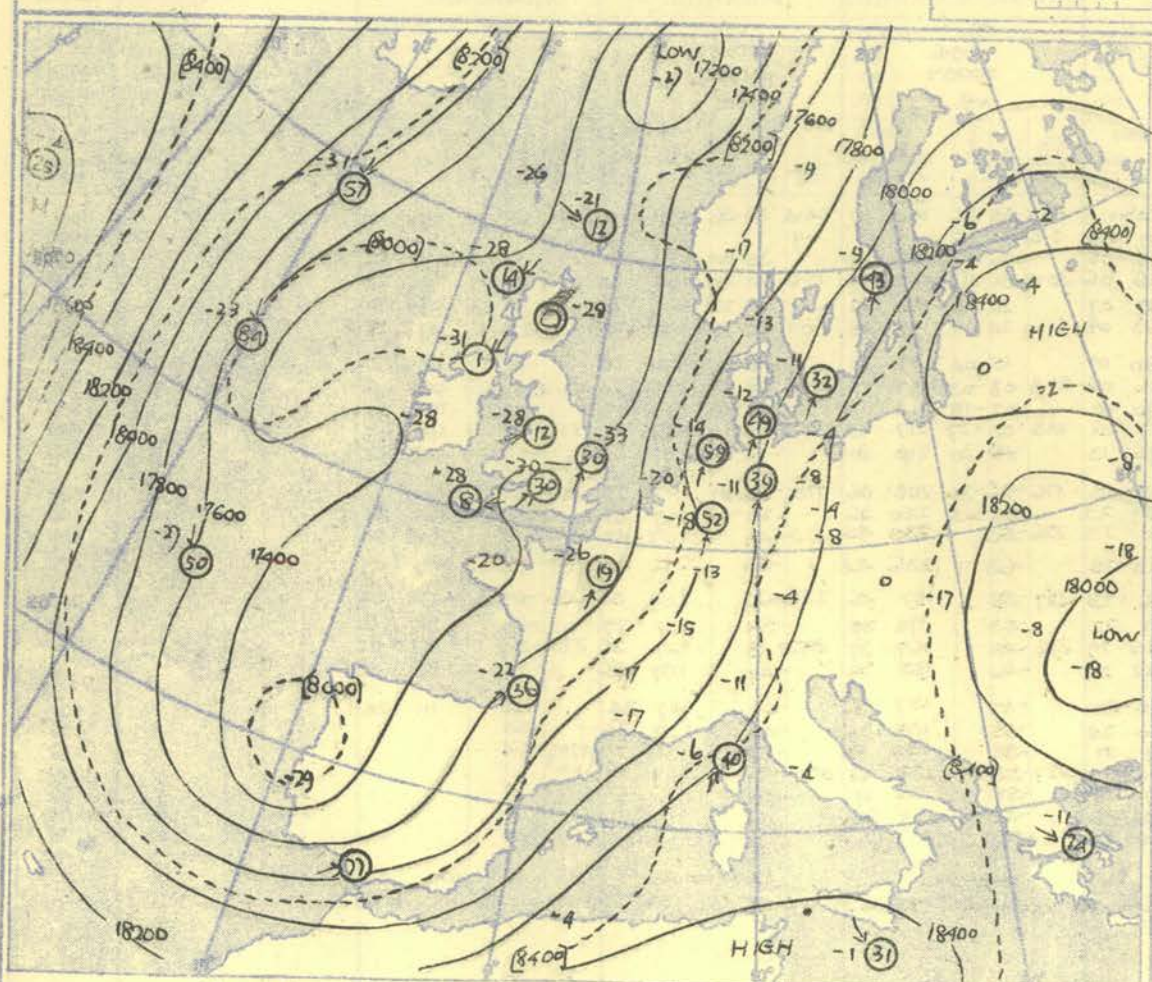
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

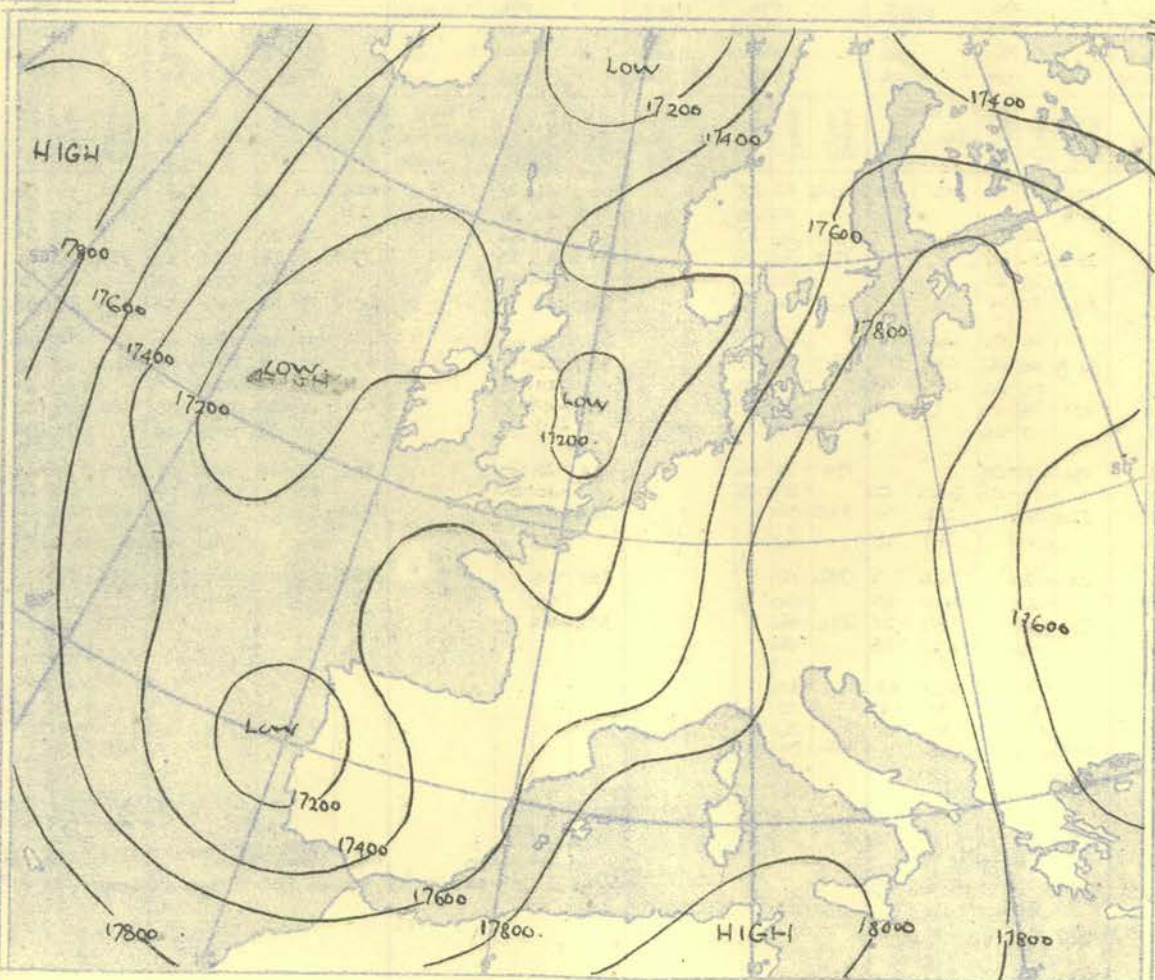
100 80 60 40 20 10 0 knots



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb.



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



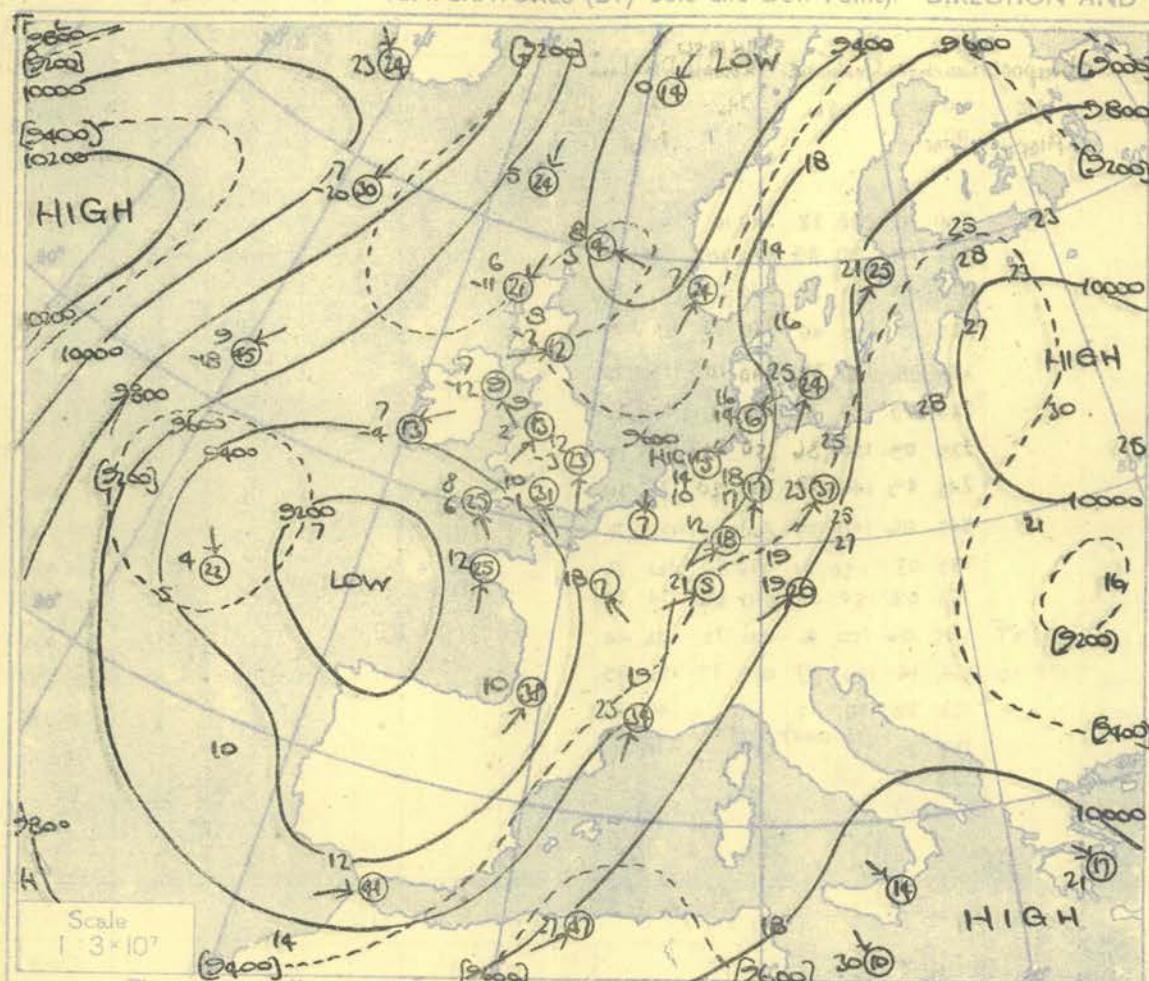
Isopleths of Thickness 500-1000mb.

DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

NEPHOSCOPE OBSERVATIONS

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS

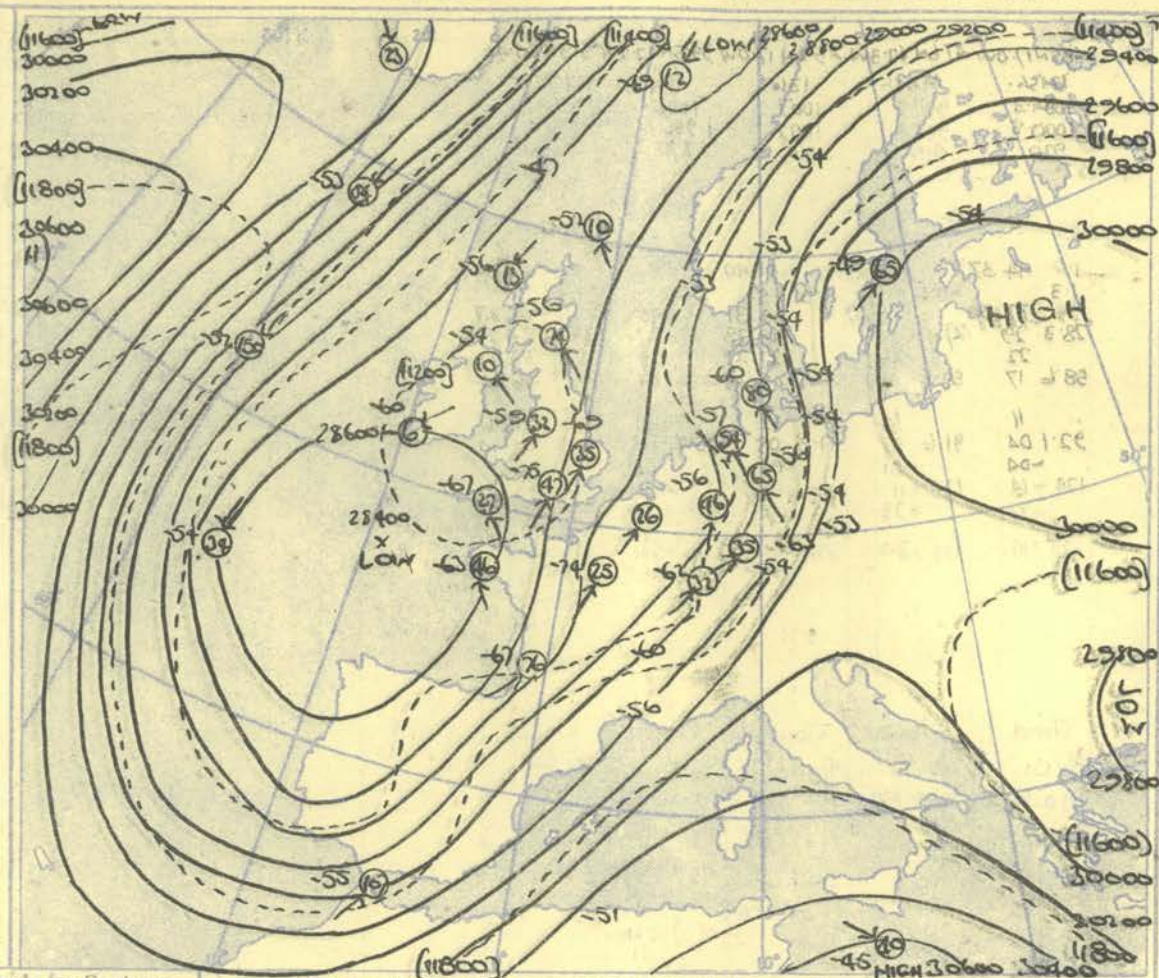
[illegible]



The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

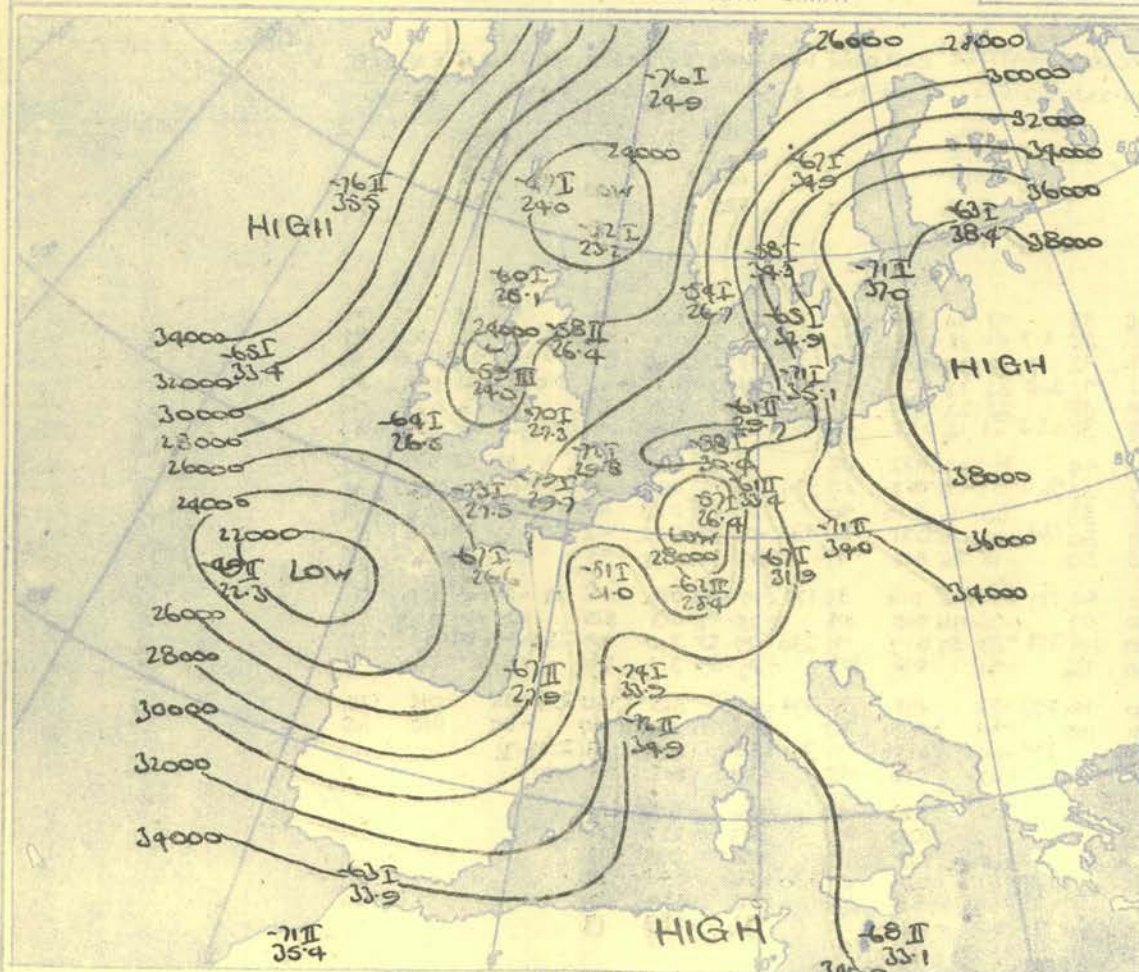
Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

100 80 60 40 20 10 0 knots



The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

TROPOPAUSE CHART at about 15h. G.M.T.



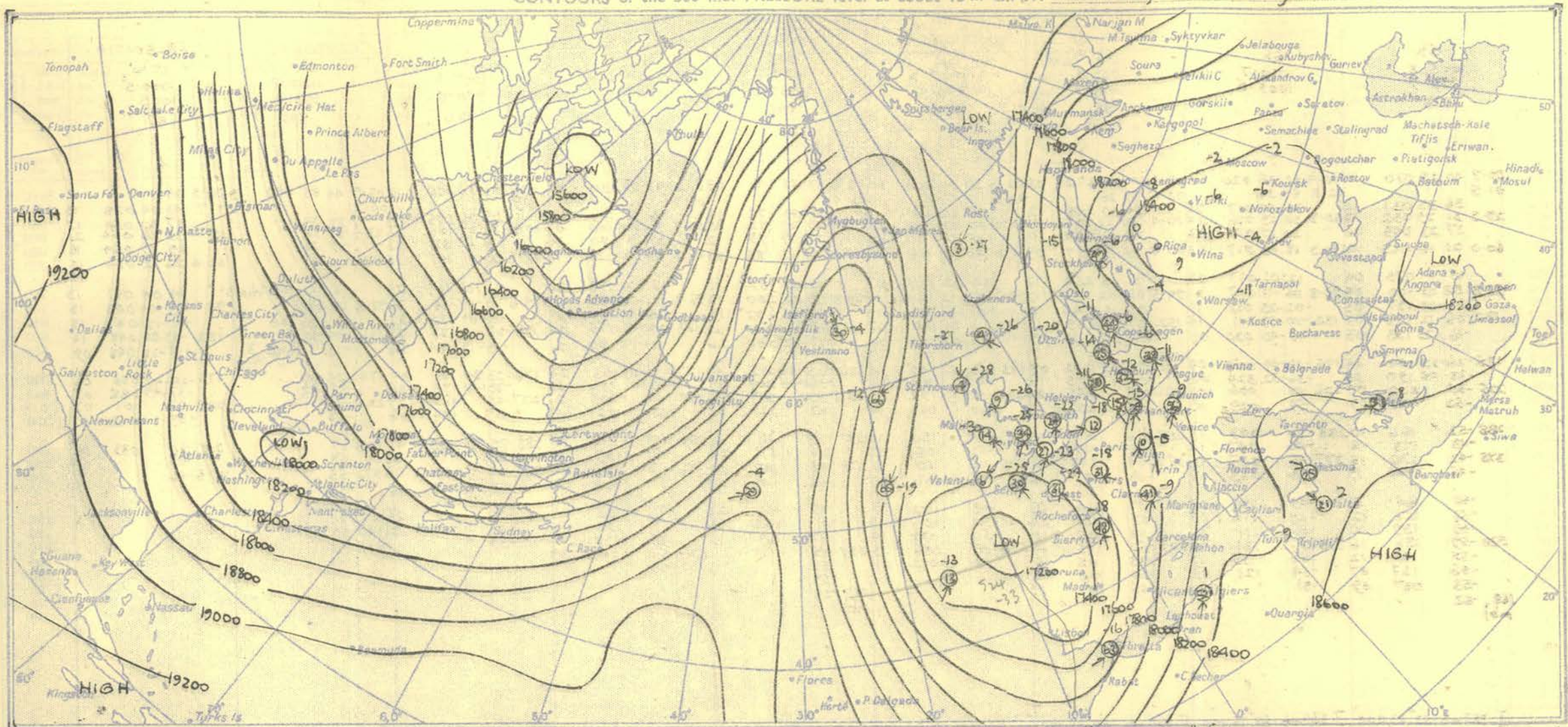
Contour lines of Height of Tropopause
Temperature of Tropopause

NOTES ON THE AEROLOGICAL SITUATION.

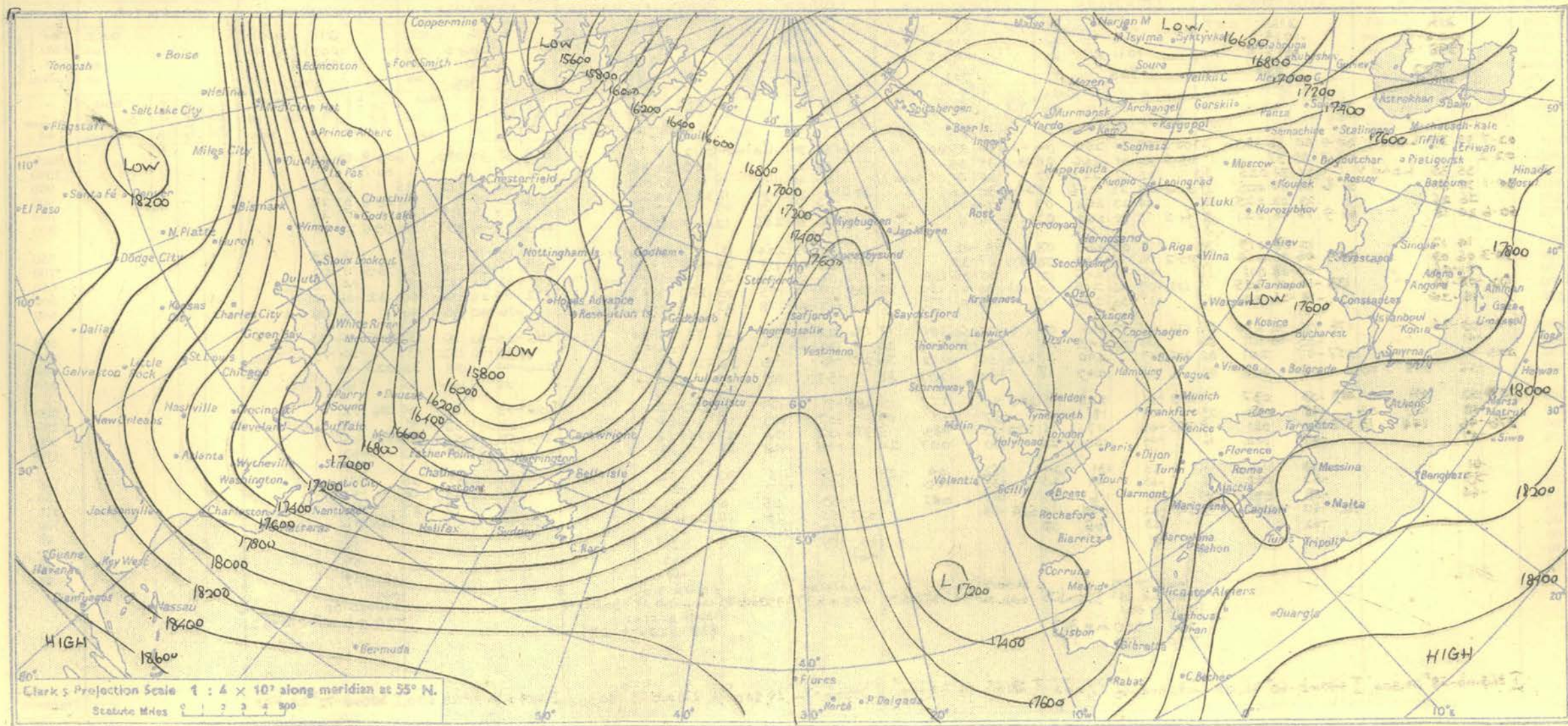
Changes in thermal pattern very slight and large amplitude meridional oscillation persisted over Atlantic and Europe.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

Meteorological Office, Air Ministry, Kingway, London, W.C.2
Nelson K. Johnson, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T. Saturday 10th February. 1951.



RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

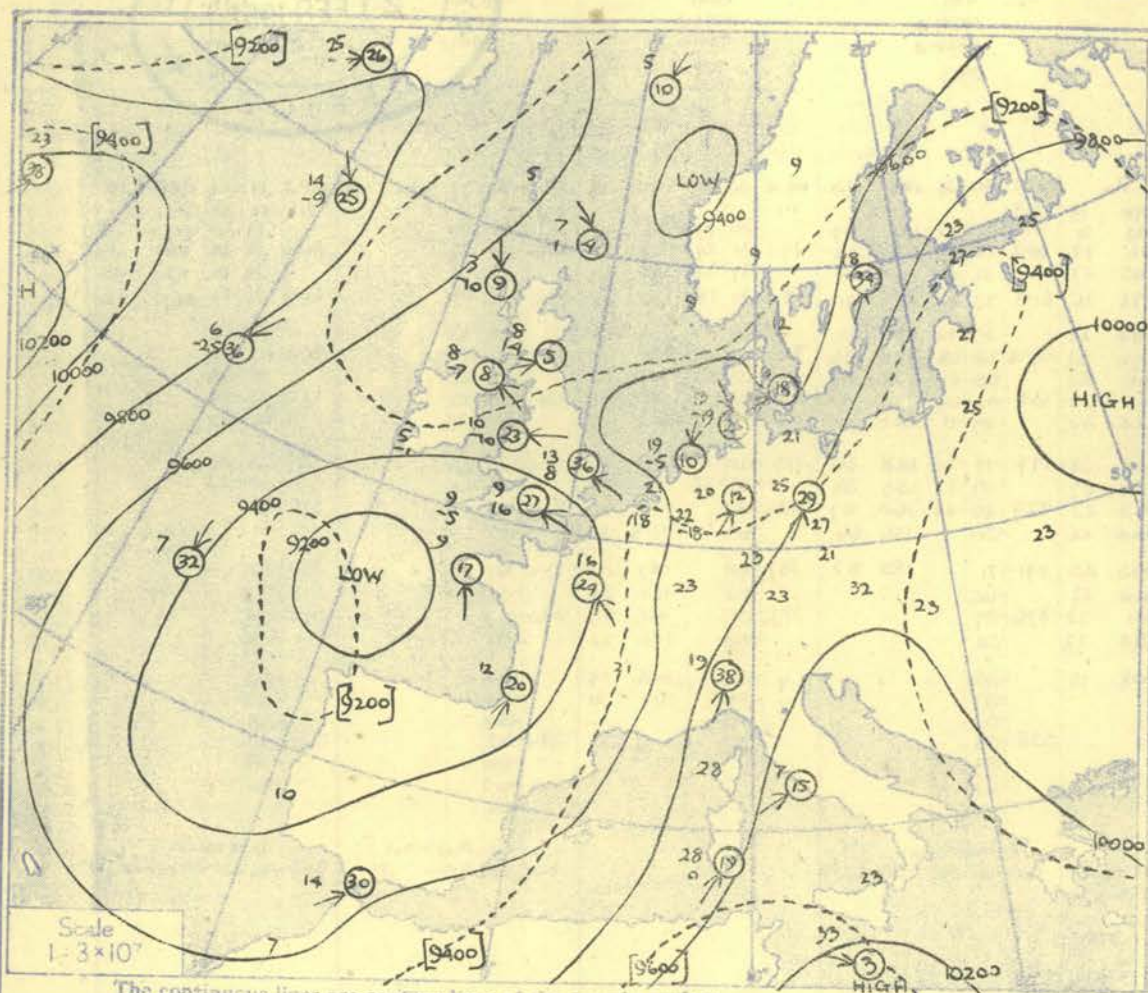
STATION	LERWICK	STORNOWAY	LEUCHARS	ALDERGROVE	LIVERPOOL	DOWNHAM MARKET	LARKHILL	CAMBORNE	VALENTIA	STATION
Time	15h	15h	15h	15h	15h	15h	15h	15h	15h	Time
M.S.L.	1005.8	1010.7	1009.3	1009.2	1009.1	1009.0	1007.1	1000.7	1006.3	M.S.L.
Surf	995.7	1009.0	1008.4	999.8	1007.0	1006.6	990.8	990.0	1005	Surf
Freezing	913		931	920	898	901	900	895	871	Freezing
Pressure										Pressure
mb										mb
Height										Height
ft./100										ft./100
Temp.										Temp.
°F.										°F.
Dew										Dew
°F.										°F.
Wind										Wind
Dir. Vel.										Dir. Vel.
knots										knots
Surf	02.7	02.7	02.7	02.7	02.7	02.7	02.7	02.7	02.7	Surf
1000	01.5	01.5	01.5	01.5	01.5	01.5	01.5	01.5	01.5	1000
950	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	950
900	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	900
850	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	850
800	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	800
750	15	15	15	15	15	15	15	15	15	750
700	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	700
650	01	01	01	01	01	01	01	01	01	650
600	132	132	132	132	132	132	132	132	132	600
550	-16	-16	-16	-16	-16	-16	-16	-16	-16	550
500	175	175	175	175	175	175	175	175	175	500
450	-38	-38	-38	-38	-38	-38	-38	-38	-38	450
400	225	225	225	225	225	225	225	225	225	400
350	-52	-52	-52	-52	-52	-52	-52	-52	-52	350
300	288	288	288	288	288	288	288	288	288	300
250	-43	-43	-43	-43	-43	-43	-43	-43	-43	250
200	378	378	378	378	378	378	378	378	378	200
170	-45	-45	-45	-45	-45	-45	-45	-45	-45	170
150	-50	-50	-50	-50	-50	-50	-50	-50	-50	150
130	-56	-56	-56	-56	-56	-56	-56	-56	-56	130
110	-60	-60	-60	-60	-60	-60	-60	-60	-60	110
100	528	528	528	528	528	528	528	528	528	100
90	-55	-55	-55	-55	-55	-55	-55	-55	-55	90
80	-56	-56	-56	-56	-56	-56	-56	-56	-56	80
70	-53	-53	-53	-53	-53	-53	-53	-53	-53	70
60	(68 mb)	(68 mb)	(68 mb)	(68 mb)	(68 mb)	(68 mb)	(68 mb)	(68 mb)	(68 mb)	60

Tropopause	I 387mb-52° 23,200	I 366mb-60° 25,100	I 336mb-58° 26,400	I 373mb-59° 24,000	I 322mb-70° 27,300	I 287mb-72° 29,800	I 287mb-79° 29,700	I 315mb-73° 27,500	I 330mb-64° 26,500	Tropopause
STATION	LERWICK	STORNOWAY	LEUCHARS	ALDERGROVE	LIVERPOOL	DOWNHAM MARKET	LARKHILL	CAMBORNE	VALENTIA	STATION
Time	21h	21h	21h	21h	21h	21h	21h	21h	21h	Time
M.S.L.	1008.7	1014.1	1012.7	1011.7	1010.3	1011.0	1006.5	1002.7		M.S.L.
Surf	998.5	1012.4	1011.8	1002.2	1008.2	1006.4	990.1	992.8		Surf
Freezing	922	930	925	912	913	885	906	874		Freezing
Pressure										Pressure
mb										mb
Height										Height
ft./100										ft./100
Temp.										Temp.
°F.										°F.
Dew										Dew
°F.										°F.
Wind										Wind
Dir. Vel.										Dir. Vel.
knots										knots
Surf	02.7	02.7	02.7	02.7	02.7	02.7	02.7	02.7	02.7	Surf
1000	02.2	02.2	02.2	02.2	02.2	02.2	02.2	02.2	02.2	1000
950	35.35	35.35	35.35	35.35	35.35	35.35	35.35	35.35	35.35	950
900	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	900
850	26.25	26.25	26.25	26.25	26.25	26.25	26.25	26.25	26.25	850
800	20.18	20.18	20.18	20.18	20.18	20.18	20.18	20.18	20.18	800
750	14.12	14.12	14.12	14.12	14.12	14.12	14.12	14.12	14.12	750
700	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	700
650	01	01	01	01	01	01	01	01	01	650
600	132	132	132	132	132	132	132	132	132	600
550	-18	-18	-18	-18	-18	-18	-18	-18	-18	550
500	175	175	175	175	175	175	175	175	175	500
450	-41	-41	-41	-41	-41	-41	-41	-41	-41	450
400	225	225	225	225	225	225	225	225	225	400
350	-56	-56	-56	-56	-56	-56	-56	-56	-56	350
300	287	287	287	287	287	287	287	287	287	300
250	-48	-48	-48	-48	-48	-48	-48	-48	-48	250
200	376	376	376	376	376	376	376	376	376	200
170	-47	-47	-47	-47	-47	-47	-47	-47	-47	170
150	-51	-51	-51	-51	-51	-51	-51	-51	-51	150
130	-59	-59	-59	-59	-59	-59	-59	-59	-59	130
110	-64	-64	-64	-64	-64	-64	-64	-64	-64	110
100										100
90										90
80										80
70										70
60										60
Inversion	1012mb 35°-990mb 35°	1012mb 35°-990mb 35°	1012mb 35°-990mb 35°	1012mb 35°-990mb 35°	1012mb 35°-990mb 35°	1012mb 35°-990mb 35°	1012mb 35°-990mb 35°	1012mb 35°-990mb 35°	1012mb 35°-990mb 35°	Inversion
isothermal	990-950mb 35°	990-950mb 35°	990-950mb 35°	990-950mb 35°	990-950mb 35°	990-950mb 35°	990-950mb 35°	990-950mb 35°	990-950mb 35°	isothermal
	790-771° 17°	790-771° 17°	790-771° 17°	790-771° 17°	790-771° 17°	790-771° 17°	790-771° 17°	790-771° 17°	790-771° 17°	
Tropopause	I 365mb-58° 24,500	I 340mb-60° 26,100	I 324mb-66° 27,000	I 281mb-68° 30,100	I 295mb-72° 29,200	I 278mb-79° 30,500	I 289mb-79° 29,500	I 300mb-72° 28,600		Tropopause

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

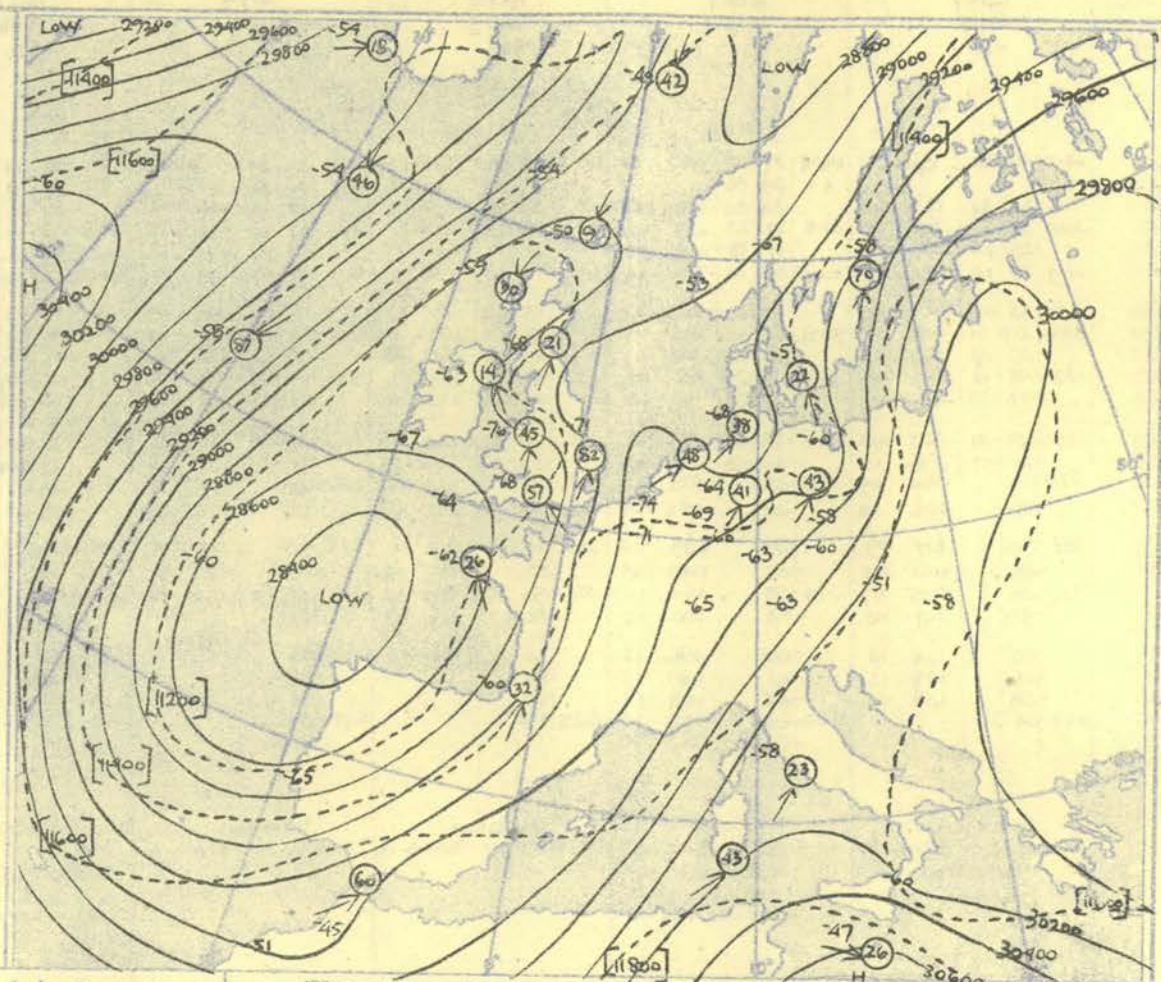
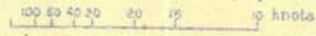
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION	
Pressure	Time M.S.L. Surf Freezing	03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Time M.S.L. Surf Freezing					
		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb							
		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb							
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		Pressure					
Pressure		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb		03h. G.M.T.		mb																			

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h G.M.T.

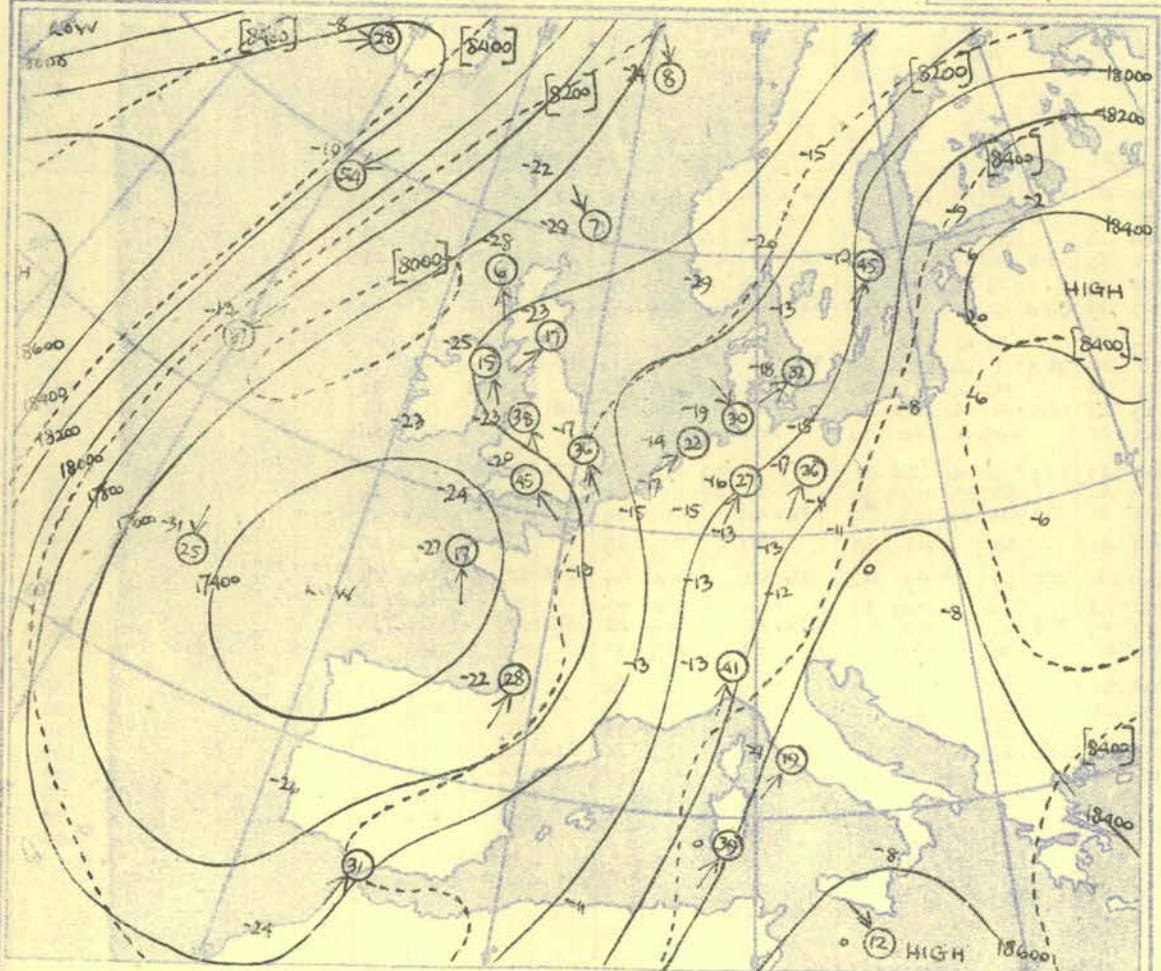


The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

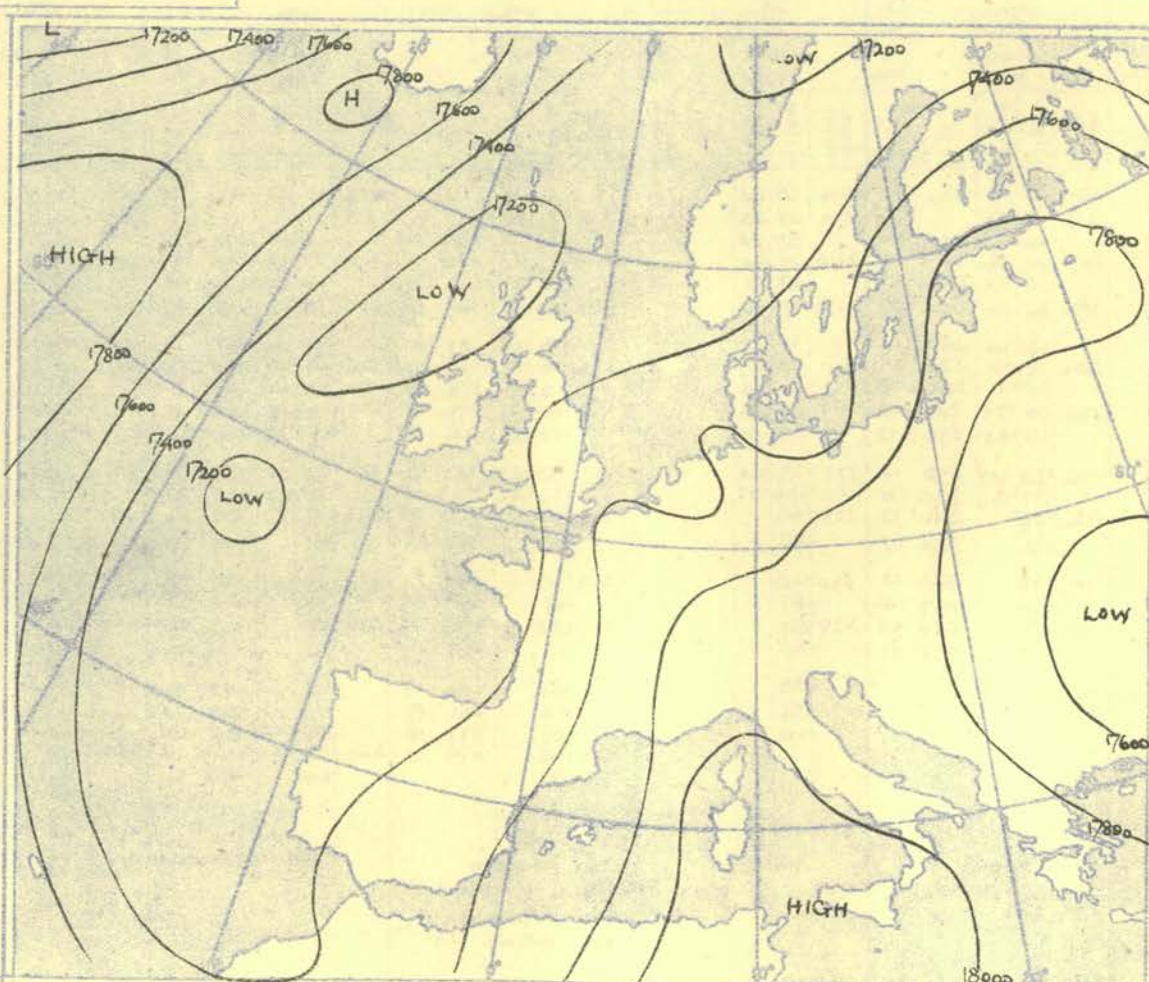
Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb.



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



Isopleths of Thickness 500-1000mb.

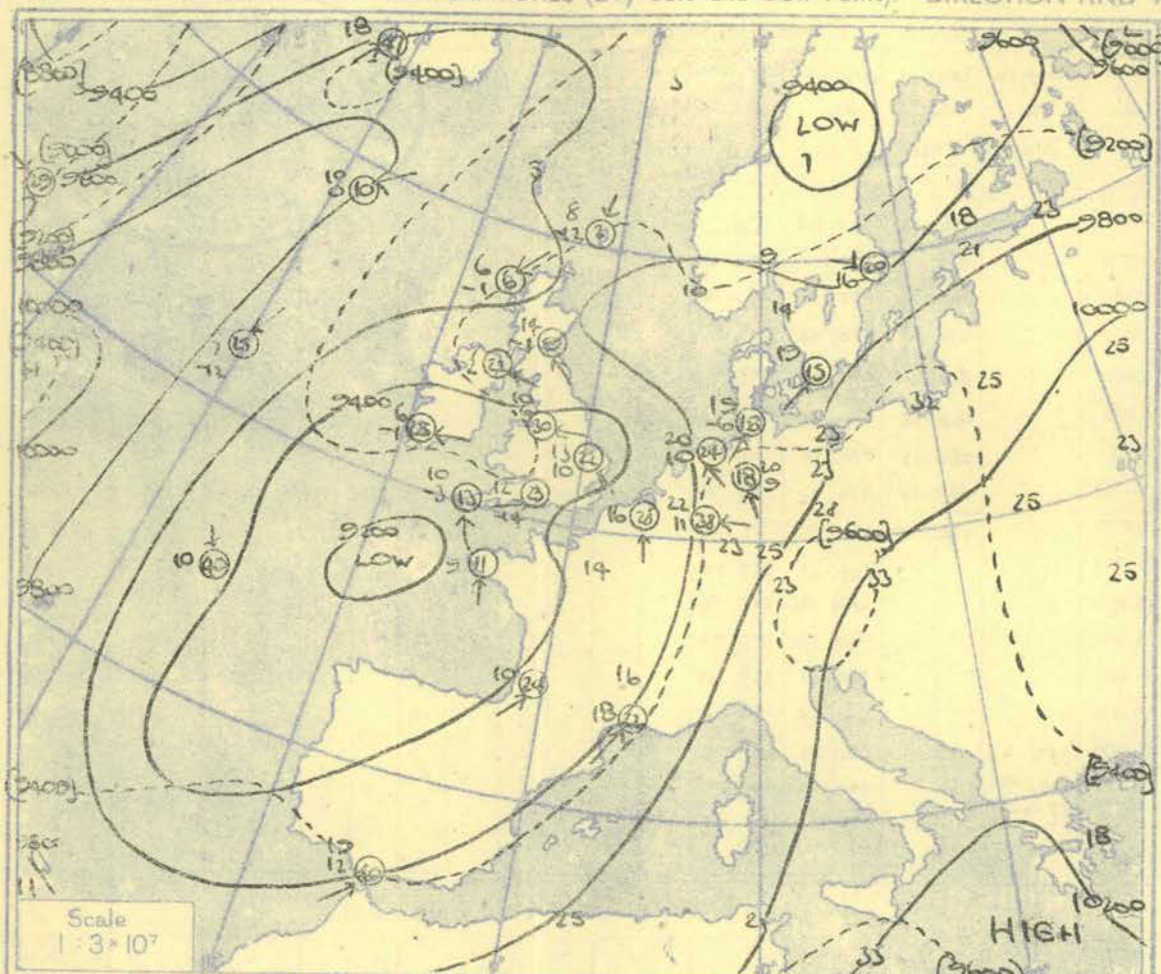
DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

NEPHOSCOPE OBSERVATIONS

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

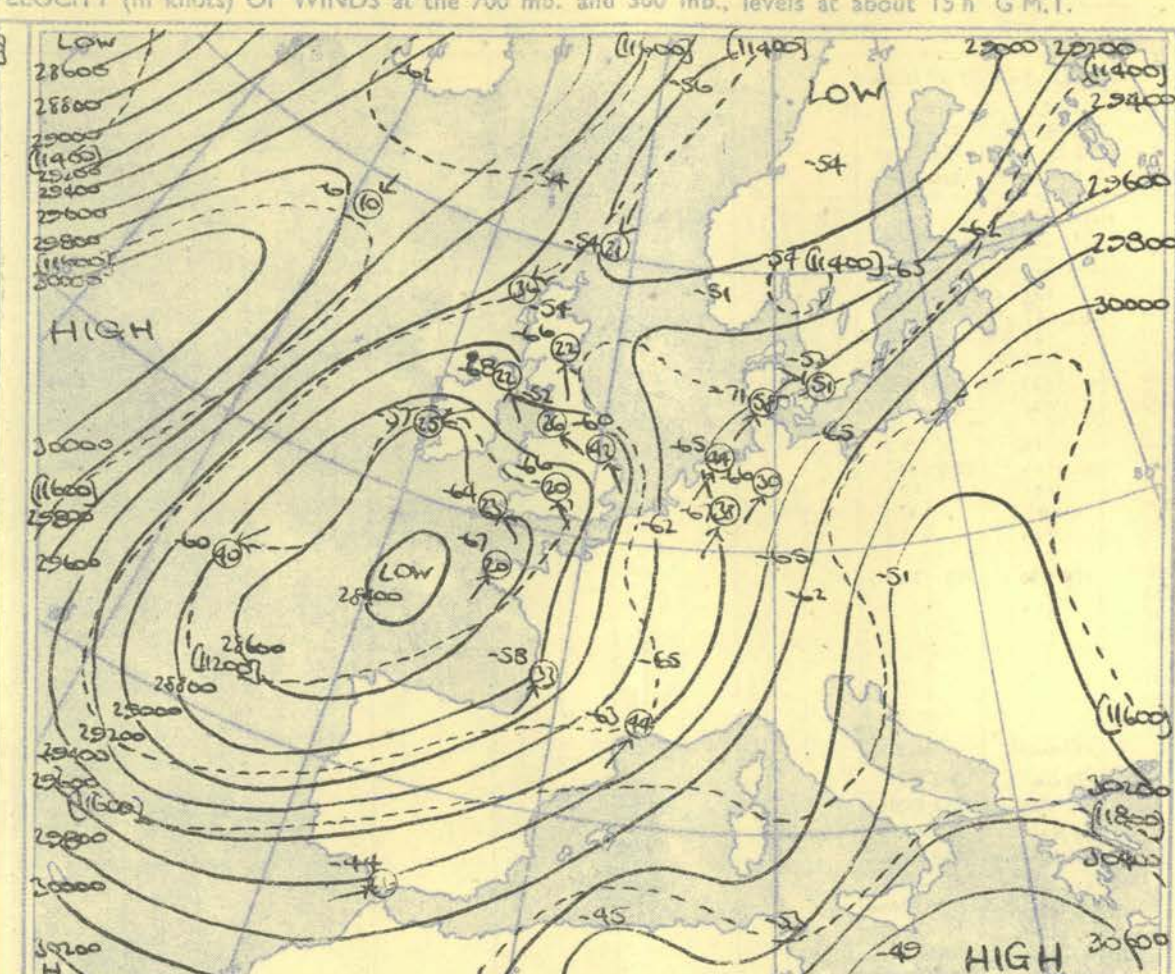
Ship	WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER EXPLORER				WEATHER EXPLORER				WEATHER EXPLORER				WEATHER EXPLORER				WEATHER EXPLORER				Ship																																																																																																																																																																																																																																																																																																																																																										
Lat/Long	59°2'N 18°3'W				59°0'N 19°1'W				59°0'N 19°0'W				59°1'N 19°1'W				52°6'N 20°3'W				52°6'N 20°4'W				52°6'N 20°5'W				52°5'N 20°5'W				Lat/Long																																																																																																																																																																																																																																																																																																																																																														
Pressure	Time	031			G.M.T.	091			G.M.T.	151			G.M.T.	211			G.M.T.	031			G.M.T.	091			G.M.T.	151			G.M.T.	211			G.M.T.																																																																																																																																																																																																																																																																																																																																																														
	M.S.L.	1023			mb	1021			mb	1020			mb	1019			mb	1019			mb	1019			mb	1018			mb	1016			mb																																																																																																																																																																																																																																																																																																																																																														
	Surf	1023			mb	1021			mb	1020			mb	1017			mb	1019			mb	1019			mb	1018			mb	1016			mb																																																																																																																																																																																																																																																																																																																																																														
	Freezing	940			mb	950			mb	940			mb	950			mb	906			mb	890			mb	900			mb	945			mb																																																																																																																																																																																																																																																																																																																																																														
Pressure	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Pressure																																																																																																																																																																																																																																																																																																																																																														
mb	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	mb																																																																																																																																																																																																																																																																																																																																																														
Surf		42	35	320	10	42	36	320	03	43	35	200	05	43	36	210	09	48	36	260	25	46	36	010	25	45	38	340	14	45	39	010	11	Surf																																																																																																																																																																																																																																																																																																																																																													
1000	5.9	39	31	355	12	5.6	39	23	335	04	5.3	41	32	200	03	4.5	41	35	204	03	5.1	44	29	016	25	4.9	44	38	003	18	4.3	41	31	031	12	1000																																																																																																																																																																																																																																																																																																																																																											
950		33	27	358	13		32	29	345	05		34	24	110	04		34	28	20	05		38	23	019	33		39	25	017	26		33	27	044	12	950																																																																																																																																																																																																																																																																																																																																																											
900	33.7	27	22	359	13	33.3	24	14	007	07	33.0	27	17	077	07	32.3	26	22	103	07	33.1	32	15	030	34	33.1	33	18	019	24	32.9	32	30	023	21	32.1	26	20	048	10	900																																																																																																																																																																																																																																																																																																																																																						
850		25	13	353	12		27	03	018	09		30	06	056	10		30	02	168	07		25	08	033	33		26	10	025	24		27	14	030	22		20	15	044	11	850																																																																																																																																																																																																																																																																																																																																																						
800	64.2	21	06	340	14	63.8	24	03	029	16	63.7	30	16	049	09	62.9	27	07	139	08	63.7	21	01	032	31	63.6	19	02	027	27	63.6	22	19	021	19	62.2	15	09	034	12	800																																																																																																																																																																																																																																																																																																																																																						
750		16	18	334	18		19	11	023	23		22	10	043	09		20	09	102	14		14	13	028	35		16	16	023	26		15	00	014	21		10	00	355	17	750																																																																																																																																																																																																																																																																																																																																																						
700	98.1	14	09	348	25	97.9	17	09	022	29	98.0	10	00	039	10	97.1	11	05	094	17	97.4	06	25	027	36	97.4	08	29	018	29	97.4	07	12	016	25	95.6	05	14	336	30	700																																																																																																																																																																																																																																																																																																																																																						
650		09	05	006	34		10	04	027	31		15	04	031	16		18	08	097	17		00	32	027	40		02	35	015	36		04	01	020	33		04	15	007	35	650																																																																																																																																																																																																																																																																																																																																																						
600	137	05	12	006	36	137	06	02	025	34	137	09	07	034	17	136	11	11	108	14	135	06	38	027	54	135	00	23	015	46	135	03	03	026	57	134	01	07	005	40	600																																																																																																																																																																																																																																																																																																																																																						
550		02	21	012	44		01	11	026	38		01	23	046	15		02	18	095	11		06	29	027	76		03	21	013	66		03	13	020	57		04	21	012	46	550																																																																																																																																																																																																																																																																																																																																																						
500	181	10	33	028	57	181	10	22	032	38	182	08	38	027	22	181	07	25	067	18	179	13	33	027	87	180	11	34	015	74	180	08	22	018	65	178	10	34	040	57	500																																																																																																																																																																																																																																																																																																																																																						
450		19	48	028	57		20	34	033	35		20	45	018	25		19	34	052	15		21	37	027	93		16	43	016	78		16	37	019	66		21	40	030	63	450																																																																																																																																																																																																																																																																																																																																																						
400	234	29	54	029	58	233	32	48	034	32	234	32	53	009	20	233	31	43	042	20	231	31	48	027	89	232	26	52	017	80	233	29	46	019	63	230	34	50	019	45	400																																																																																																																																																																																																																																																																																																																																																						
350		40	60	018	56		45	017	34		49			014	12		44		030	21		44		024	96		40	60	020	82		43		019	62		48		019	58	350																																																																																																																																																																																																																																																																																																																																																						
300	298	54		015	46	297	60		001	35	297	61		006	10	297	58		030	17	295	58		021	87	297	56		013	81		43				293	61		013	51	300																																																																																																																																																																																																																																																																																																																																																						
250		68		021	42		73		013	25		74		336	12		72		054	09		73		015	83		70		004	84	(348mb)				72		351	52	250																																																																																																																																																																																																																																																																																																																																																								
200	382	78		016	42	380	79		025	15	381	80		312	07	381	77		021	09	379	74		020	70	381	76		005	74				37	83		318	60	200																																																																																																																																																																																																																																																																																																																																																								
170		78		025	24		76		090	04		73		289	05		66		278	11		65		024	58		68		018	40				69		332	33	170																																																																																																																																																																																																																																																																																																																																																									
150		73		036	18		68		153	06		65		192	03		60		222	15		65		024	31		62		019	24				66		004	19	150																																																																																																																																																																																																																																																																																																																																																									
130		66		076	10		65		179	05		64		174	09		59					64		024	41		61		027	19				65		004	09	130																																																																																																																																																																																																																																																																																																																																																									
110		62		130	09		62		177	04		62		187	12		60					63		024	13		64		045	12				69		004	10	110																																																																																																																																																																																																																																																																																																																																																									
100	527	63		146	09	525	62		180	03	526	61		197	16	528	60				525	67		024	12	527	65		104	12				521	67		004	07	100																																																																																																																																																																																																																																																																																																																																																								
90		65		163	09		64		181	07		62		195	18		61					68					61		141	12				67		004	06	90																																																																																																																																																																																																																																																																																																																																																									
80		65		183	03		59					59		186	12		61				(96mb)													68				80																																																																																																																																																																																																																																																																																																																																																									
70		65		178	10							59		189	06		59																					70																																																																																																																																																																																																																																																																																																																																																									
60		64		195	07							54				(65mb)	5																					60																																																																																																																																																																																																																																																																																																																																																									
Inversion. 870mb 23°-850mb 25°																																Inversion. 882mb 22°-850mb 27°																																Inversion. 885mb 24°-865mb 30°																																Inversion. 894mb 25°-856mb 31°																																Inversion. 600mb -6°-575mb -3°																																Isothermal. 635°-574mb 0°																																Isothermal. 1000mb -995mb 4°																																Inversion. 590mb 2°-578mb -1°																																Isothermal. 550°-4°-539° -2°																																Isothermal. 677mb 3°-650mb 4°																																Inversion. 712°-663mb 5°																																Tropopause																															
Tropopause II 210mb -79°																																I 210mb -82°																																I 200mb -8°																																I 207mb -80°																																I 220mb -79°																																I 211mb -77°																																n/2.																																I 207mb -85°																																Tropopause																																																																																																																															

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15 h G.M.T.



The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

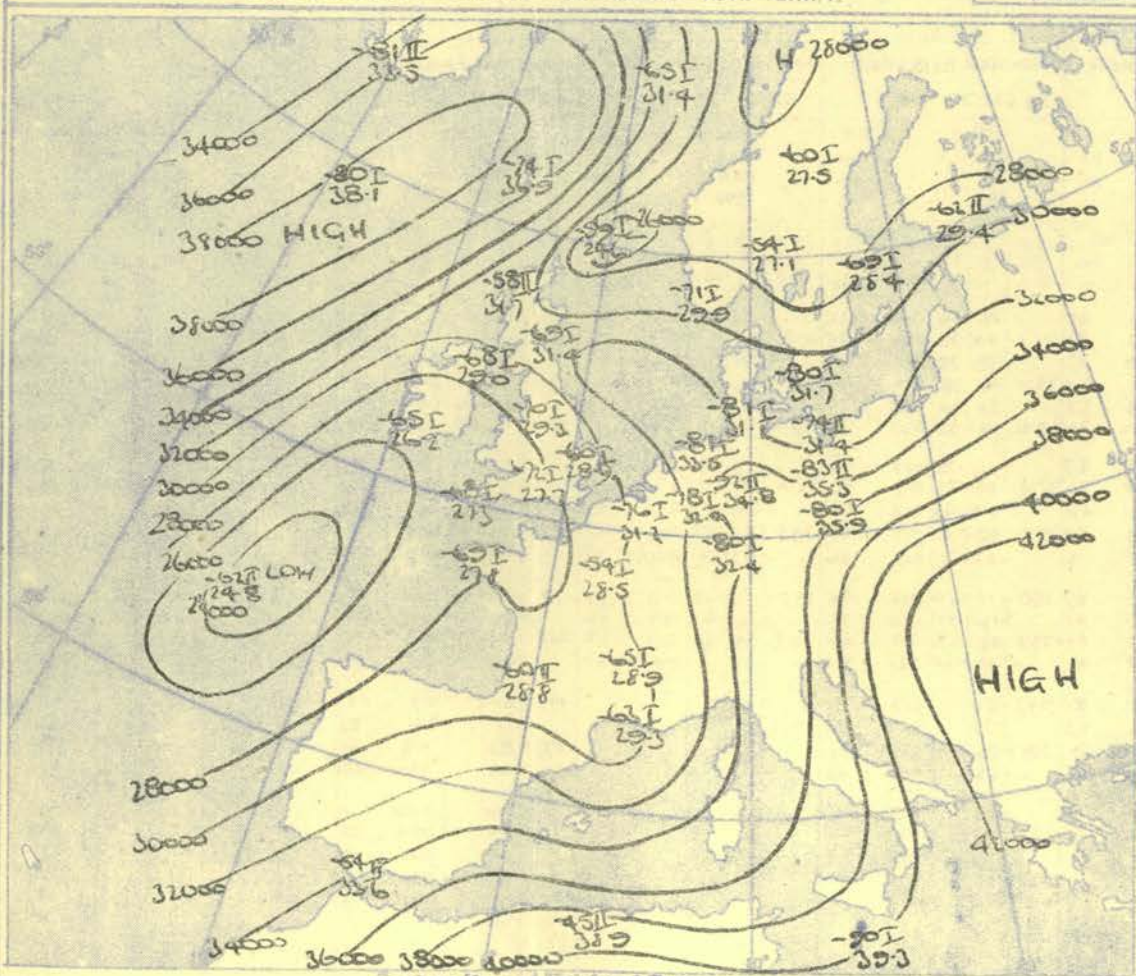
TROPOPAUSE CHART at about 15h. G.M.T.



The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

100 80 60 40 20 10 knots



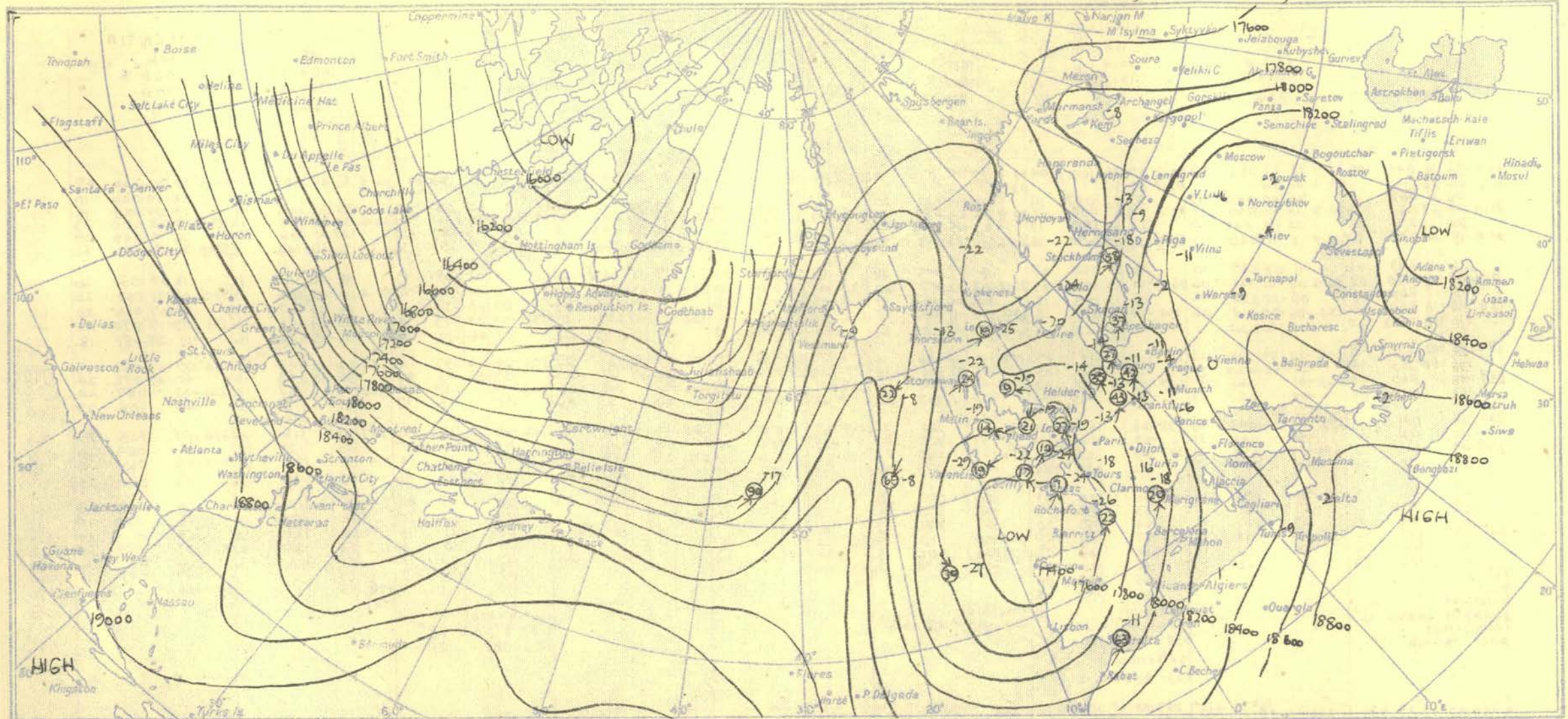
Contour lines of Height of Tropopause.
Temperature of Tropopause.

NOTES ON THE AEROLOGICAL SITUATION.

The most notable feature of thermal pattern has been the rapid warming between 0300 and 1300 G.M.T. Over Northwest Africa and adjacent sea areas.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

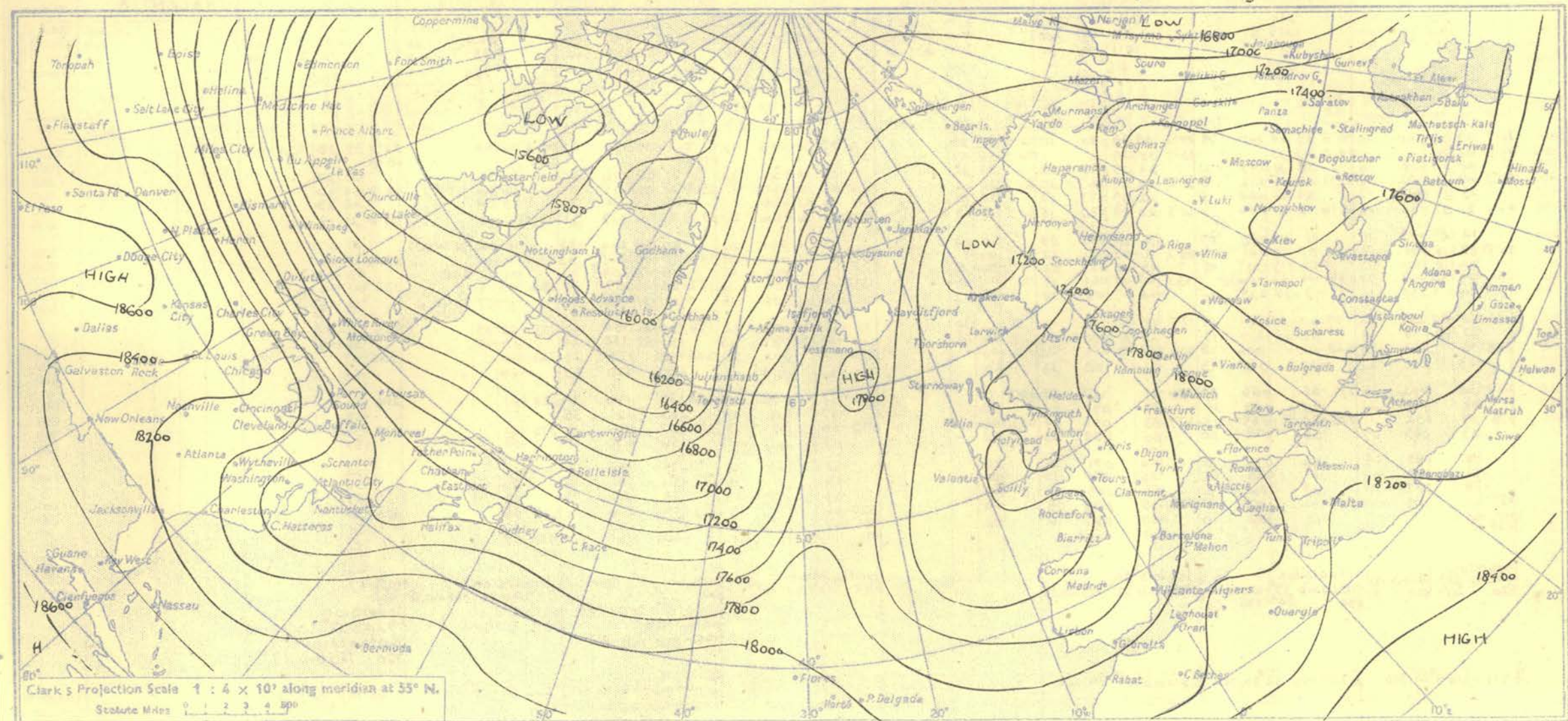
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON M. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T.

Sunday 11th February

1951.



Clark's Projection Scale 1 : 4 x 10⁷ along meridian at 33° N.

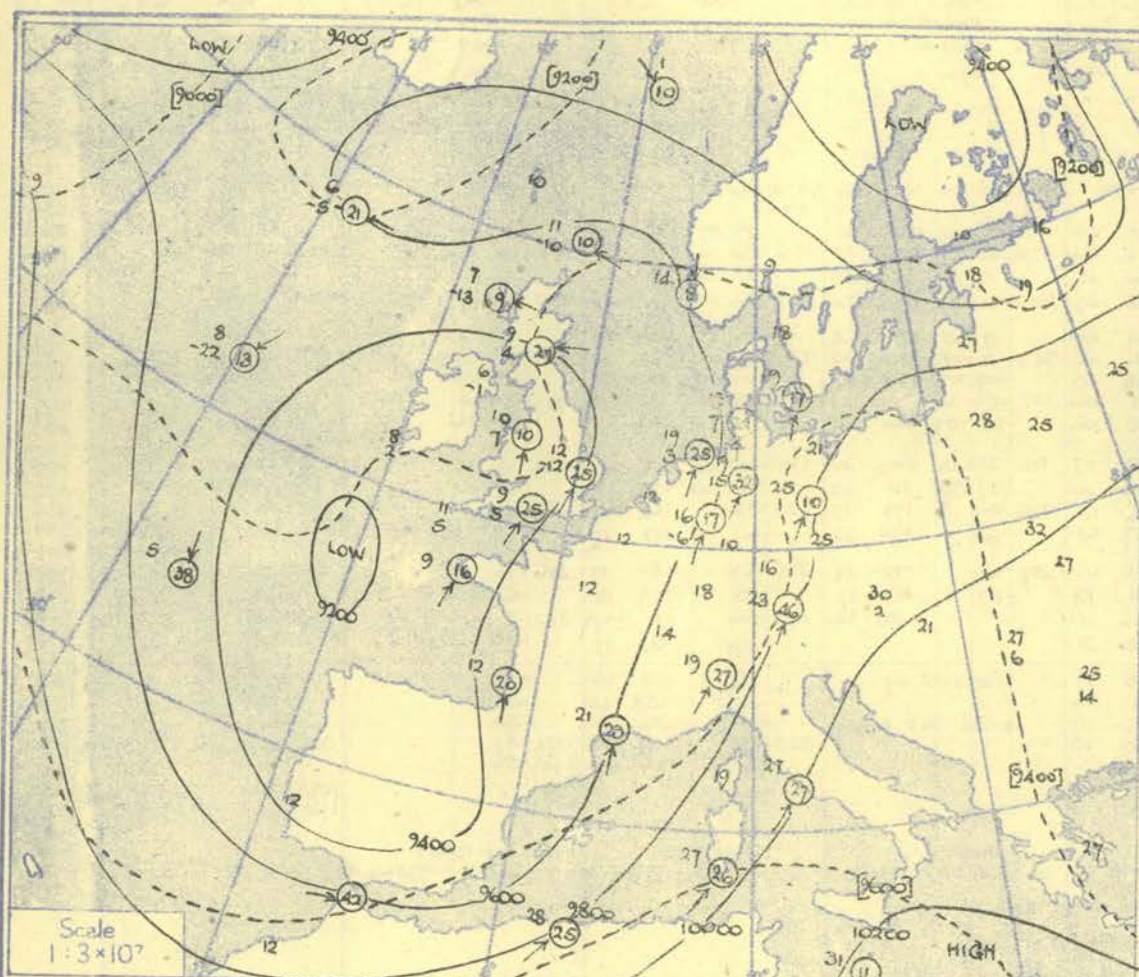
Statute Miles 0 1 2 3 4 500

HMSO Press, MO, Dunstable

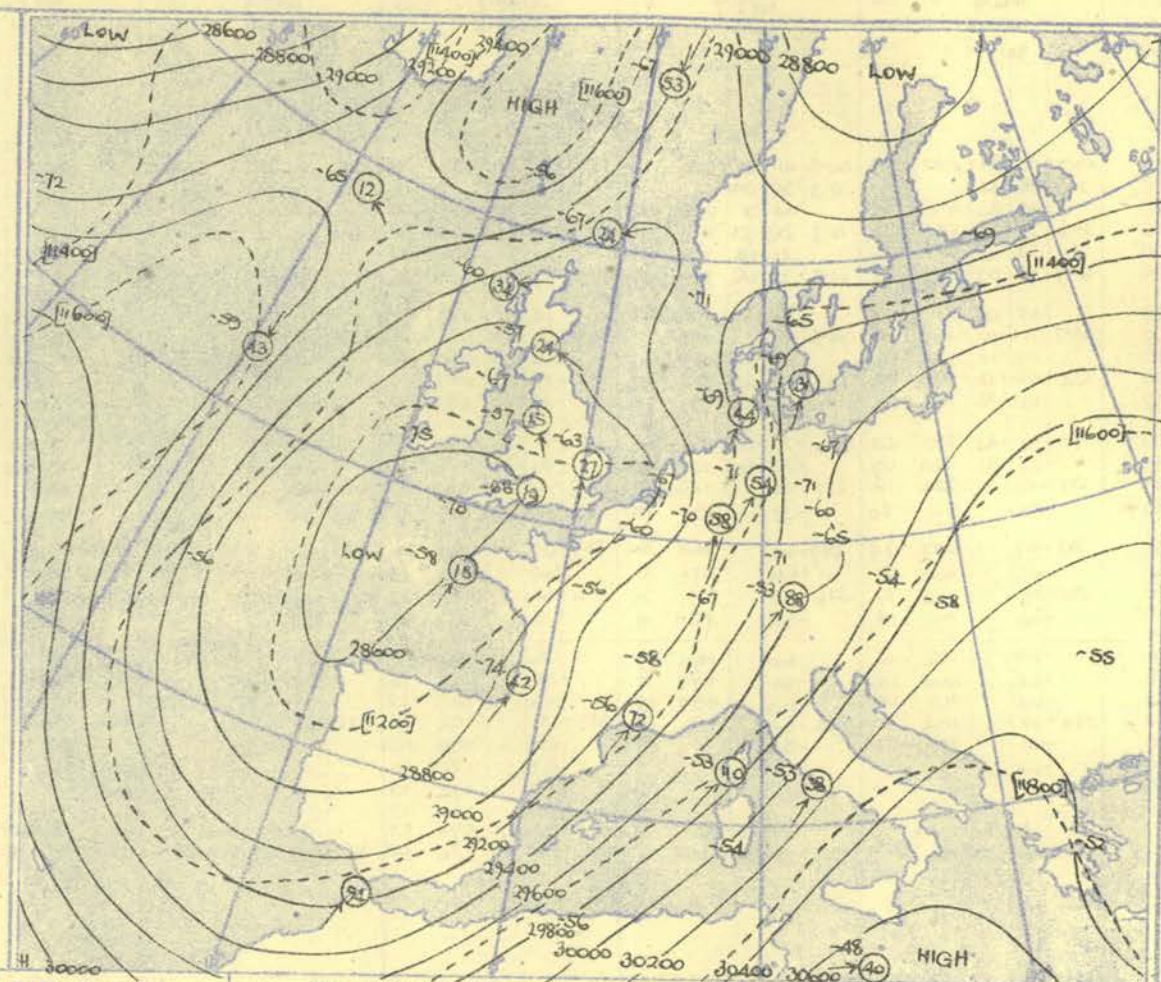
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION
Pressure mb	Time M.S.L.	Surf Freezing	03h. G.M.T.		03h. G.M.T.		03h. G.M.T.		03h. G.M.T.		03h. G.M.T.		03h. G.M.T.		03h. G.M.T.		03h. G.M.T.		03h. G.M.T.		03h. G.M.T.		03h. G.M.T.		03h. G.M.T.		03h. G.M.T.		03h. G.M.T.		Time M.S.L.	Surf Freezing	Pressure mb				
			1014.8 1004.6 941	mb mb mb	1012.7 1011.1 936	mb mb mb	1008.7 1007.8 950	mb mb mb	1007.9 998.8 950	mb mb mb	1003.2 1001.1 950	mb mb mb	1006.5 1002.0 895	mb mb mb	1004.5 988.1 887	mb mb mb	1000.9 990.1 868	mb mb mb	1006.5 1005 951	mb mb mb																	
Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb					
Surf	02.7	38	34	080 09	00.5	41	37	050 10	00.2	39	36	070 13	02.6	36	33	Calm	01.2	38	34	100 06	04.4	36	36	Calm	02.9	37	36		00.3	39	34	Surf					
1000	3.9	38	34		3.3	39	34		2.2	38	36		2.3	32	30		0.9	32	31	188 04	1.7	36	35	192 16	1.2	39	39	177 14	0.3	41	39	1000					
950		33	30	075 15		34	31	059 19		32	31	087 25		32	30			32	31	188 04		36	35	192 16		39	39	177 14		41	39	950					
900	31.6	27	24	083 15	31.7	28	23	071 19	30.0	29	27	065 30	20.0	26	24		28.5	29	27	174 04	29.6	33	29	205 22	29.2	34	34	178 16	28.4	36	32	900					
850		22	16	087 16		21	18	071 19		24	21	070 34		21	10			24	22	160 08		27	20	208 24		28	28	180 21		30	26	850					
800	61.9	18	07	089 18	61.3	17	06	064 18	60.5	19	16	076 30	60.3	16	08		58.9	19	17	148 09	60.2	21	07	205 24	59.9	22	20	193 23	59.2	23	19	800					
750		15	05	072 17		11	03	068 15		14	10	083 31		11	04			14	12	141 09		17	05	199 24		16	13	204 24		17	12	750					
700	95.7	11	10	101 10	94.8	07	13	090 09	94.3	09	04	088 29	93.8	06	01		92.6	10	07	171 10	94.1	12	12	196 25	93.7	09	05	208 25	93.1	11	05	700					
650		03	18	103 05		01	34	130 07		02	03	090 30		01	08			03	00	188 10		05	19	177 27		02	05	201 23		02	07	650					
600	134	06	28	100 05	133	06	49	138 08	132	06	12	087 29	131	09	15		131	04	08	171 06	132	04	24	201 27	132	05	15	200 22	131	04	10	600					
550		15	36	116 03		14	46	149 08		13	20	087 32		15	22			13	17	153 06		14	39	201 22		14	27	207 21		14	26	550					
500	177	24	44	237 03	176	23	52	160 08	176	21	29	081 32	175	22	39		174	23	29	157 07	176	25	48	203 20	175	25	40	210 23	174	25	35	500					
450		34	53	220 09		33	60	155 15		31	39	076 31		34	43			35	42	164 10		37	55	211 22		36	53	210 28		37	42	450					
400	227	46		224 18	227	45		146 18	227	42		069 32	225	46			225	48		176 13	226	50		198 27	225	50		214 29	225	47		400					
350		59		221 20		57		138 16		52		105 31		59				60		187 13		63		190 22		64		217 27		62		350					
300	289	67		057 24	289	60		068 34	289	57		108 24	287	67			286	57		140 15	287	63		192 27	286	68		184 19	286	70		300					
250		65		065 31		60		078 31		62		099 23		60				55		131 18		57		167 27		58		169 18		61		250					
200	375	58		065 12	376	55		073 24	376	60		091 23	373	57			374	64		106 15		57		158 18	373	56		171 17	372	57		200					
170		60		096 13		55		085 21		56		111 21		55				54		125 21		57				57		155 17		56		170					
150		63		126 10		60		080 17		56		102 19		57				53		125 17	For rest of winds see page 3.					56		151 15		57			150				
130		64		063 06		61		078 11		56		077 25		57				52		121 14		54		154 13		54		154 13		56		130					
110		64		113 06		63		080 15		56		105 25		59				55		116 10		55		150 11		55		150 11		60		110					
100	522	61		074 05	524	61		133 14	525	56		102 21	522	61			524	56		105 13	522	58		152 08	521	57		52	100								
90		61		118 02		58				57		070 15		57				57		070 15		57				61		166 06	(194) 58		61		90				
80		64								57		085 13		59				58		094 15	Inversion 1002 mb. 35°-985 mb. 37° 968 mb. 36°-955 mb. 40° 990 mb. 37°-974 mb. 43°					64						80					
70										60		100 12		60						100 12	Inversion												70				
60										62		126 14		62						126 14	Inversion												60				
Isothermal 1005 mb. - 982 mb. 38°				Isothermal 728 - 705 mb. 08°				(50) - 60 mb				Isothermal 560 - 538 mb. -15°				Isothermal 913 - 893 mb. 29°				Inversion 1002 mb. 35°-985 mb. 37° 968 mb. 36°-955 mb. 40° 990 mb. 37°-974 mb. 43°				Inversion				Inversion									

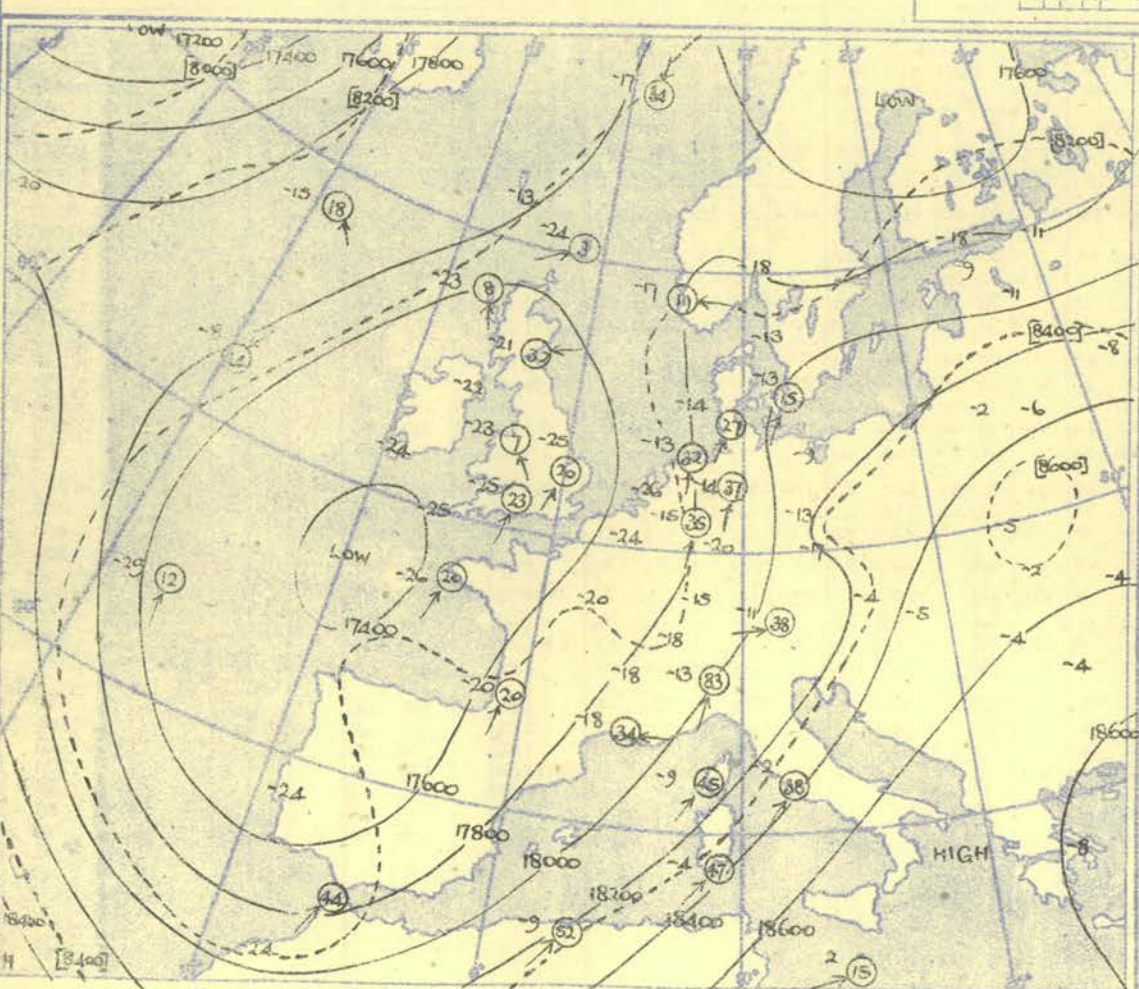
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03.h G.M.T.



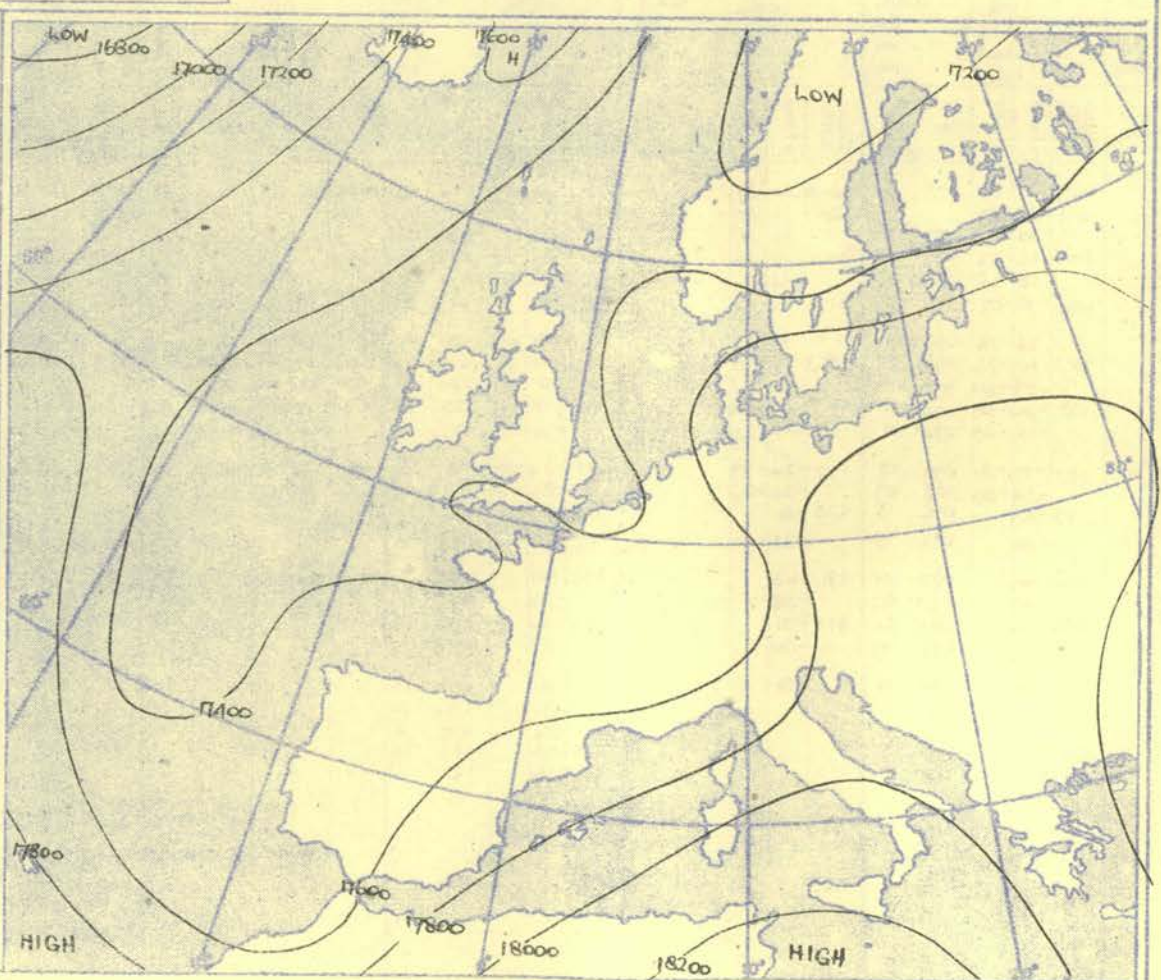
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500 - 300 mb



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



Isopleths of Thickness 500-1000mb.

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

[illegible]

DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

Place	Downham Market	Downham Market	Leuchars																Place
Time	03h	21h	21h																Time
Type	Pilar		Pilar																Type
Feet	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Feet
Surf.	100	06	100	06															Surf.
1,000			150	10															1,000
2,000			150	10															2,000
3,000			140	09															3,000
4,000			150	08															4,000
5,000			160	08															5,000
6,000			170	05															6,000
8,000			170	13															8,000
10,000			180	12															10,000
14,000			200	10															14,000
18,000			210	22															18,000
24,000			220	35															24,000
30,000			210	32	114	13													30,000
40,000	160	20	170	18	102	11													40,000
50,000			160	10	092	12													50,000
			100	25	118	11													
			(90,000)		(52,000')														

ME

LIRD

21 FEB 1951

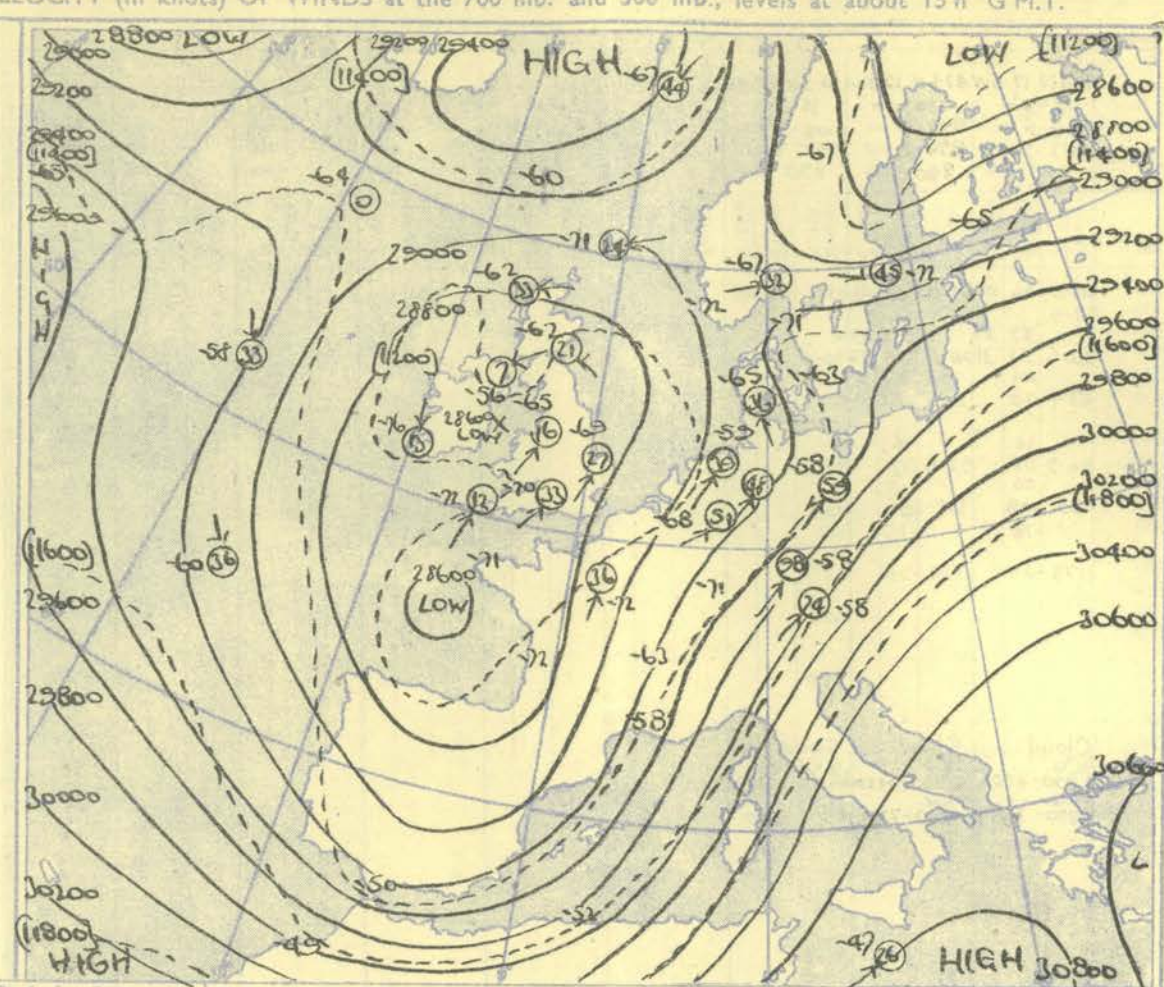
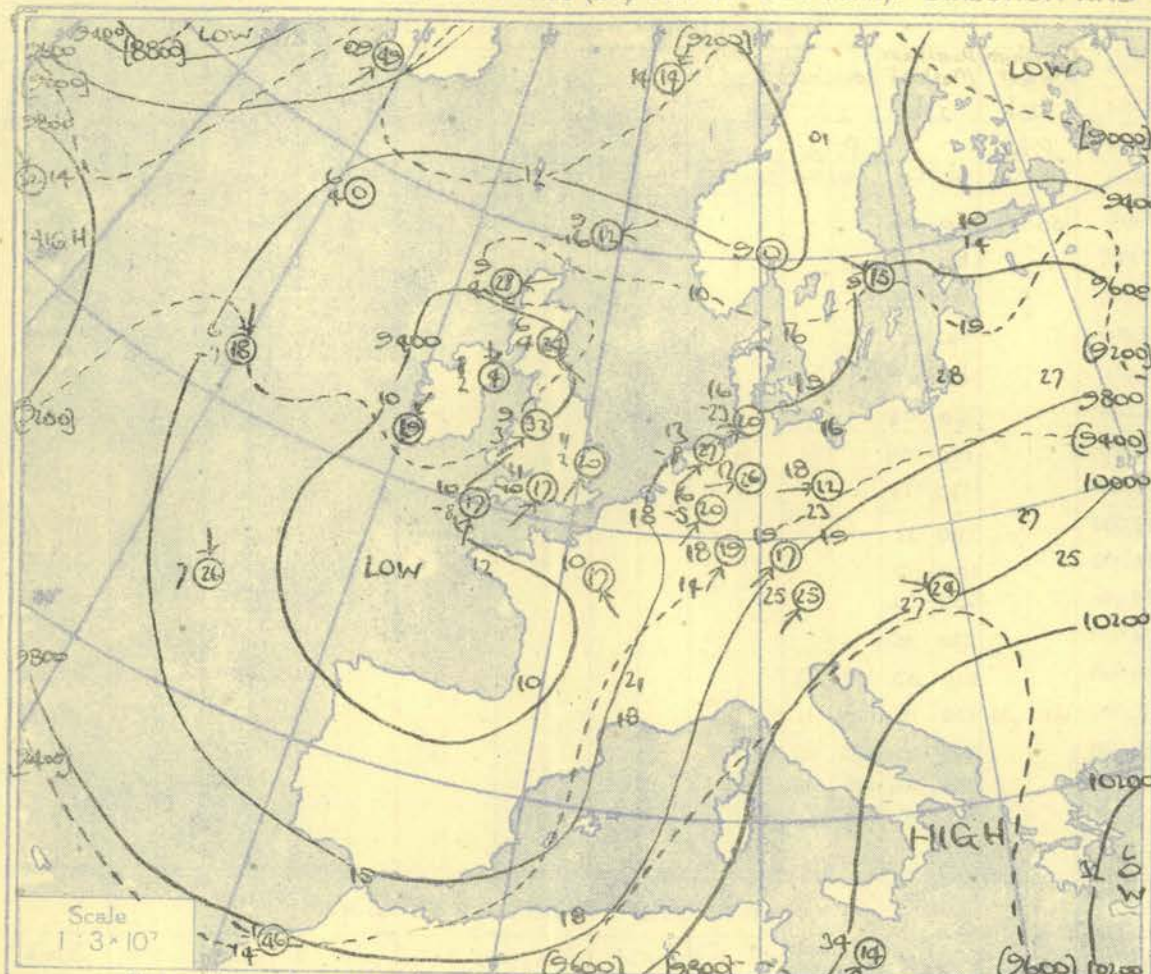
OFFICE

NEPHOSCOPE OBSERVATIONS																			
Place																			Place
Time Type	NONE REPORTED.																		Time Type
Dir. Vel.																			Dir. Ve

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

[illegible]

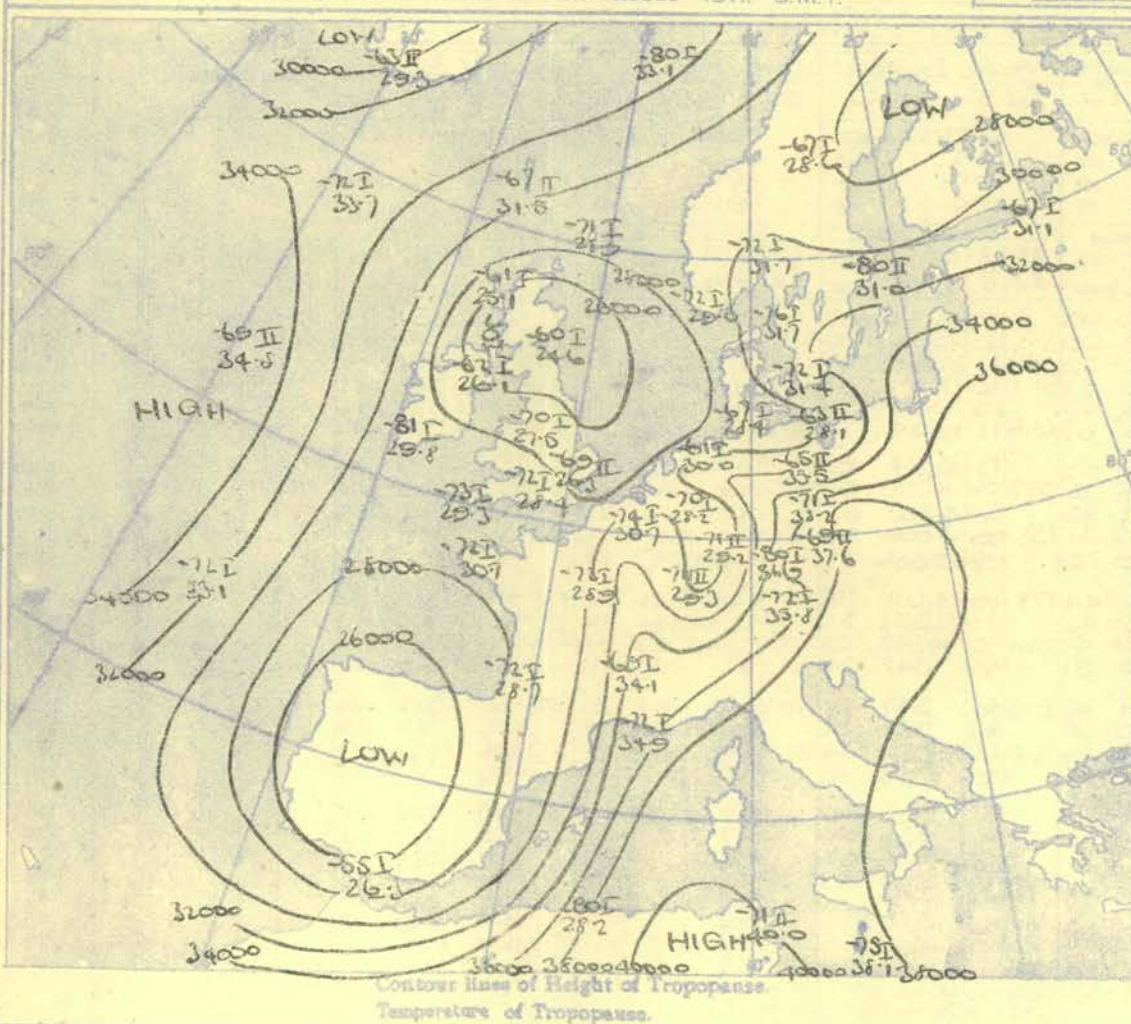
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15 h. G.M.T.



Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52½° N.

100 80 60 40 20 10 knots

TROPOPAUSE CHART at about 15h. G.M.T.

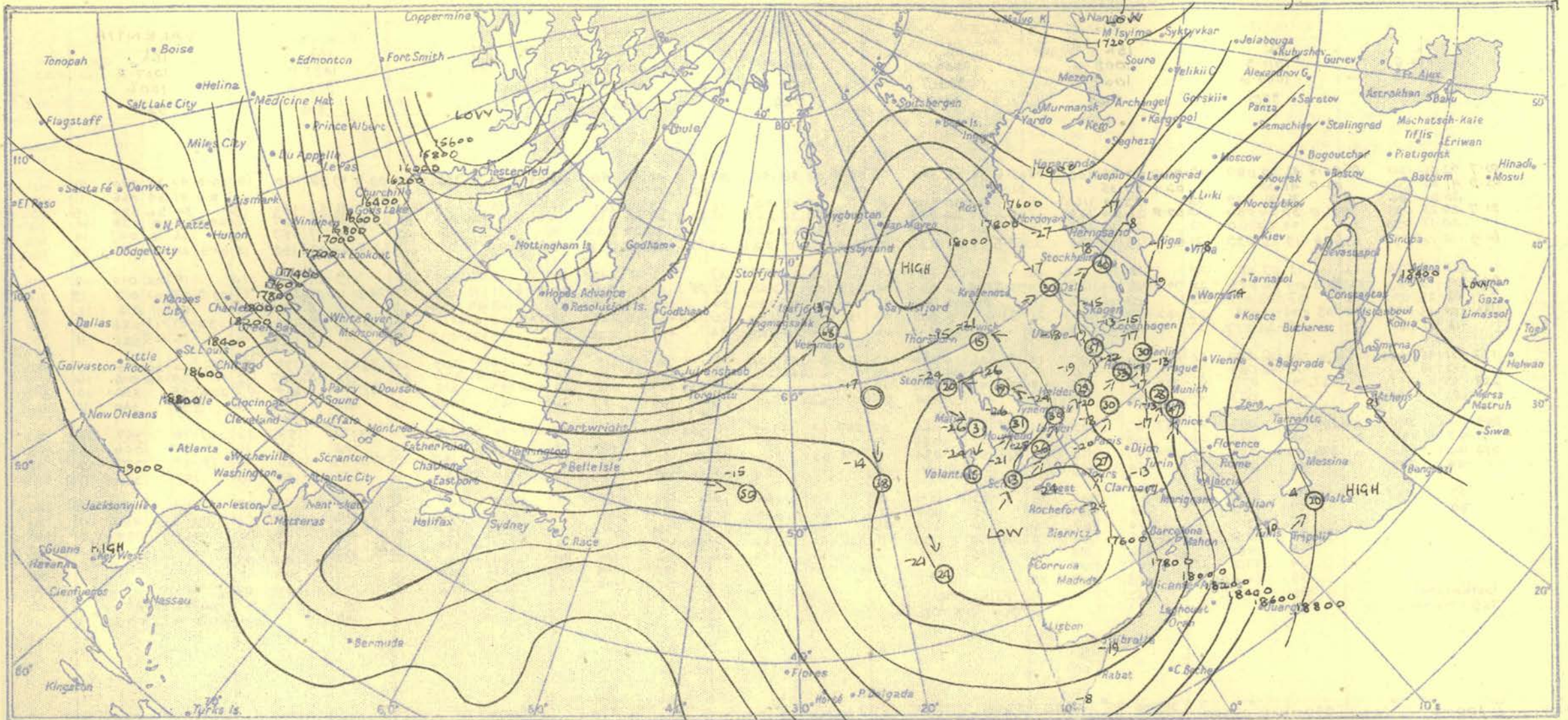


NOTES ON THE AEROLOGICAL SITUATION.

Marked cooling to West of the British Isles in
about longitude 20°W.

RATES OF SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

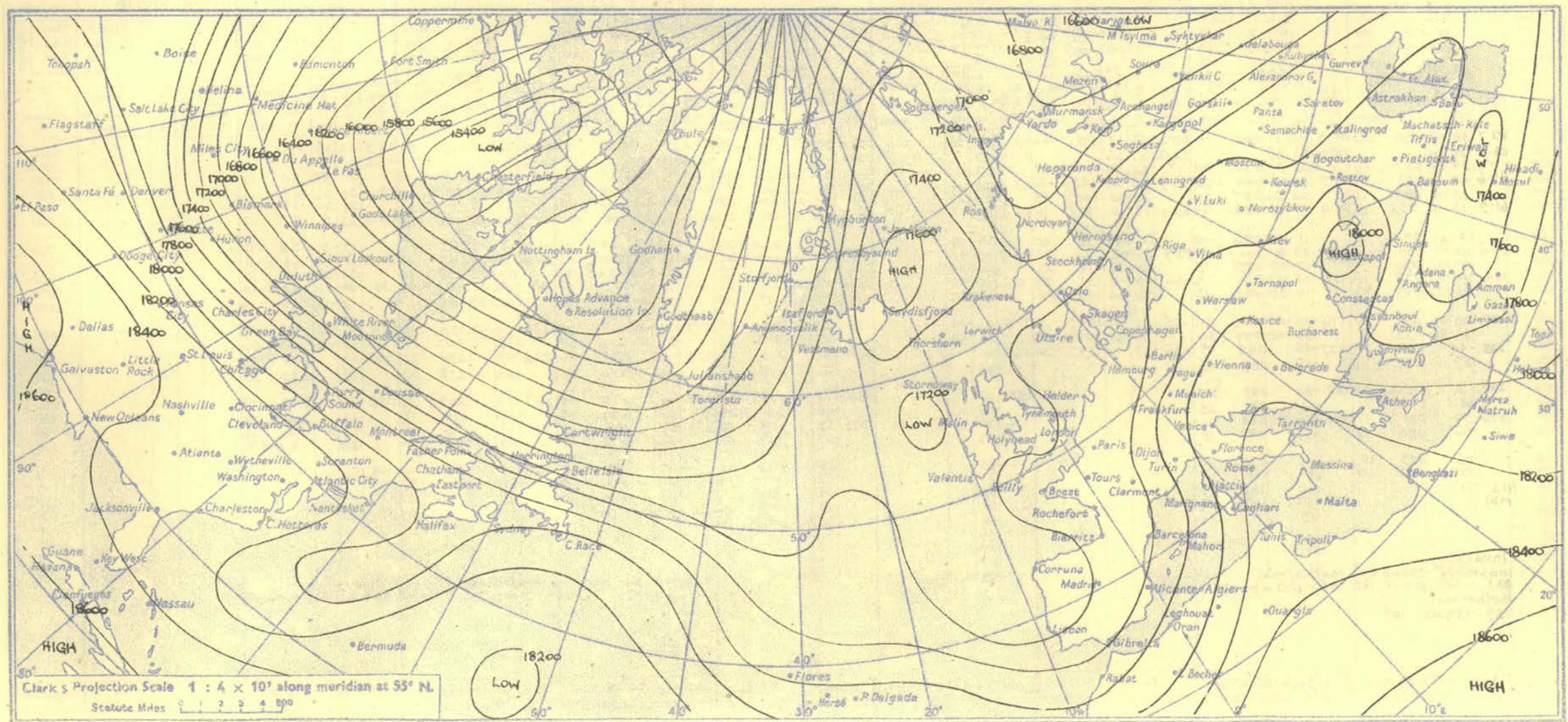
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
Nelson K. Johnson, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T.

Monday 12th February,

1951.



STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION
Pressure Time M.S.L. Surf Freezing	15h 1014.6 1004.3 93.2	G.M.T. mb mb mb	15h 1011.3 1009.6 92.0	G.M.T. mb mb mb	15h 1008.0 1007.1 95.0	G.M.T. mb mb mb	15h 1004.9 995.7 943	G.M.T. mb mb mb	15h 1006.1 1004.0 92.6	G.M.T. mb mb mb	15h 1003.3 1007.8 87.8	G.M.T. mb mb mb	15h 1006.5 990.4 88.8	G.M.T. mb mb mb	15h 1003.9 993.4 86.8	G.M.T. mb mb mb	15h 1007.4 1006 93.5	G.M.T. mb mb mb	Time M.S.L. Surf Freezing																		
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb				
Surf	02.7	42.36	120	09	00.5	42.35	080	10	00.2	40.36	130	08	02.6	38.35	340	05	00.6	42.36	190	09	01.2	48.43	160	08	04.4	47.41	170	04	02.9	49.38	150	10	00.3	42.35	070	10	Surf
1000	03.9	41.35			03.0	41.35			02.1	37.35			01.4	37.35			01.6	42.36	190	09	02.1	47.42			01.8	47.41			01.1				2.0	41.34	066	11	1000
950		35.31	104	13		36.31	079	23		32.28	116	18		33.30	340	09		35.31	194	15		37.36	201	11		40.36	158	09		46.34	143	15		39.26	039	15	950
900	31.7	26.23	098	13	15.1	30.26	086	23	27.8	26.24	133	17	29.2	27.24	348	09	29.5	30.26	227	15	30.3	34.20	216	14	30.0	34.26	180	09	29.5	38.26	147	16	29.8	28.19	028	14	900
850		20.17	098	14		24.20	100	19		23.20	136	18		24.21	024	07		24.22	233	17		27.24	226	14		27.19	195	10		30.17	159	16	26.16	027	14	850	
800	61.9	14.12	090	13	61.5	19.15	095	21	60.1	19.15	138	20	59.5	18.13	032	07	60.0	19.15	221	23	61.1	23.18	222	18	60.6	23.10	202	14	60.3	24.08	168	15	60.3	20.05	026	16	800
750		10.04	086	12		13.09	081	24		13.10	144	22		15.10	002	06		16.07	217	27		18.11	214	20		18.00	205	16		19.01	177	14		14.02	014	18	750
700	95.3	09.15	083	12	95.2	09.04	078	28	94.0	06.04	139	24	93.3	08.02	345	04	93.8	09.03	220	32	95.1	11.02	211	20	94.6	11.10	208	17	94.3	13.08	181	17	93.9	07.02	012	19	700
650		02.23	090	14		03.03	077	26		03.06	132	23		01.06	340	02		02.10	232	34		03.08	218	25		03.19	206	19									

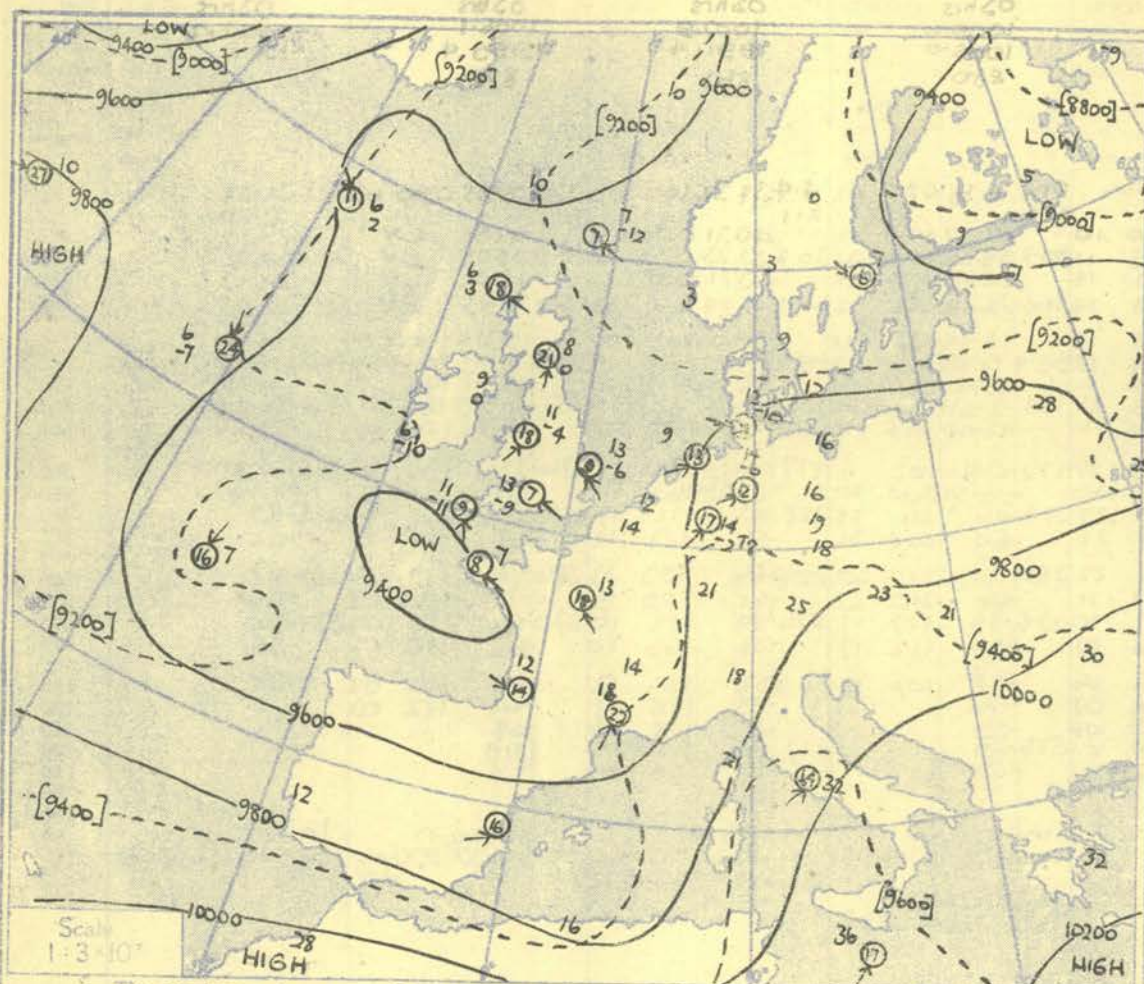
[illegible]

TEOROLOG

STATION	LERWICK	STORNOWAY	LEUCHARS	ALDERGROVE	LIVERPOOL	DOWNHAM MARKET	LARKHILL	CAMBORNE	Valentia	STATION
Time	03hrs	03hrs	03hrs	03hrs	03hrs	03hrs	03hrs	03hrs	03hrs	Time
M.S.L.	1014.6	1010.9	1010.9	1007.7	1008.9	1009.6	1007.9	1006.1	1009.2	M.S.L.
Surf	1004.3	1002.2	1002.2	998.4	1006.8	1005.0	991.4	995.4	1008.0	Surf
Freezing	950	914	914	937	902	880	863	879	1000	Freezing
Pressure	mb	mb	mb	mb	mb	mb	mb	mb	mb	Pressure
Height	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	Height
Temp.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	Temp.
Dew	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	Dew
Wind	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Wind
Surf	02.7 36 33 070 03	0.5 41 37 040 03	0.2 38 32 Calm	02.6 36 34	0.6 38 36 Calm	01.2 33 33 020 02	4.4 34 32 100 03	02.9 38 37 020 03	0.3 31 28	Surf
1000	03.8 37 34	02.9 41 37	02.4 34 33	02.2	02.4	02.4	2.1	01.7	33 29	1000
950	32 28 060 11	36 33 030 21	34 30 183 07	34 32	37 34 190 10	41 37 100 12	40 31 030 11	42 31	25 27	950
900	31.5 25 12 075 10	30 30 29 031 18	30 25 175 09	30 29 26	30 25 29 208 11	30 27 28 24 109 11	30 27 23 031 12	30 29 25 25	20 23	900
850	18 16 035 09	26 22 088 18	24 24 166 10	24 24	27 23 191 14	28 13 119 11	30 21 035 12	28 22	24 17	850
800	61.6 17 06 112 08	61.4 19 13 082 18	60.8 18 14 164 12	60 20 14	60 24 17 188 14	61.4 24 01 123 12	61.1 22 14 101 13	60.6 22 13	60.7 19 03	800
750	13 -4 120 07	12 03 089 18	14 08 163 16	15 09	15 07 208 14	18 14 133 11	20 00 109 07	19 00 141 03	15 07	750
700	95.2 07 -12 117 07	95.0 06 03 036 18	94.6 08 00 177 21	94 3 09 00	94.7 11 -4 214 18	95.4 13 26 143 09	95.3 13 9 123 07	94.6 11 -11 142 03	94.4 06 10	700
650	02 -17 038 09	02 -6 100 16	00 -6 180 25	02 -7	04 -16 206 22	05 -43 149 10	06 -6 137 09	02 -17 141 03	2 -13	650
600	133 -4 -22 037 12	133 -5 -13 031 17	132 -7 -13 177 17	132 -6 -20	133 -4 -20 215 23	134 -3 -39 154 12	133 -2 -9 133 10	133 -6 -19 163 07	132 -12 -19	600
550	-13 -30 032 13	-15 -23 084 26	-15 -23 161 19	-16 -29	-13 -30 220 26	-12 -40 168 11	-11 -17 138 08	-16 -28 180 07	-19 -16	550
500	177 -21 -32 106 15	176 -25 -34 054 27	175 -23 -35 166 20	175 -28 -36	176 -22 -36 215 27	177 -23 -46 195 11	177 -20 -29 140 10	176 -27 -39 170 07	175 -28 -36	500
450	33 -42 102 19	36 -46 107 25	36 -47 177 23	35 -48	-38 -47 211 30	-33 -54 200 20	-31 -39 161 13	-40 -52 148 07	-37 -47	450
400	227 -44 092 22	227 -47 107 33	226 -50 177 23	226 -48	217 -46 219 29	218 -46 211 24	218 -43 172 17	216 -51 164 10	215 -49	400
350	-58 040 23	-59 038 43	-64 166 20	-57	-61 221 28	-60 208 31	-56 187 22	-64 174 13	-62	350
300	289 -69 086 39	288 -62 031 39	287 -60 133 18	288 -58	288 -67 221 22	289 -73 211 29	290 -66 193 33	286 -78 170 16	286 -67	300
250	-68 092 30	-61 037 28	-58 130 13	-57	-61 137 11	-66 210 27	-61 189 19	-71 180 01	-62	250
200	374 -59 095 19	375 -59 037 20	375 -56 038 10	376 -52	374 -53 151 10	374 -59 187 17	376 -54 182 10	370 -62 183 03	372 -56	200
170	-56 075 16	-56 081 18	-55 098 10	-53	-53 116 07	-57 182 17	-51 165 10	-62 188 03	-58	170

Tuesday 13th February, 1951.

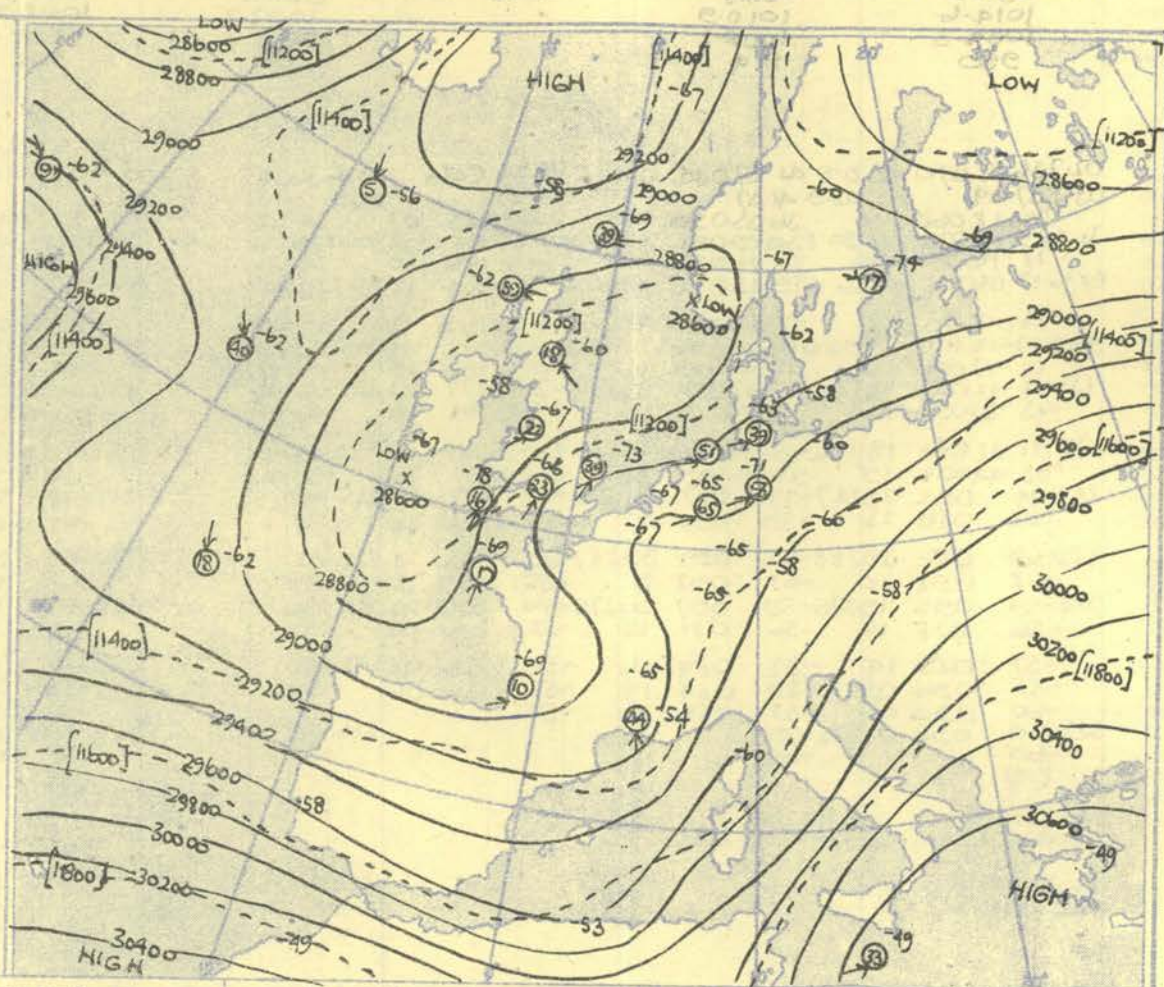
HEIGHTS IN FEET, TEMPERATURES (Dry bulb and Dew Point), DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03h G.M.T.



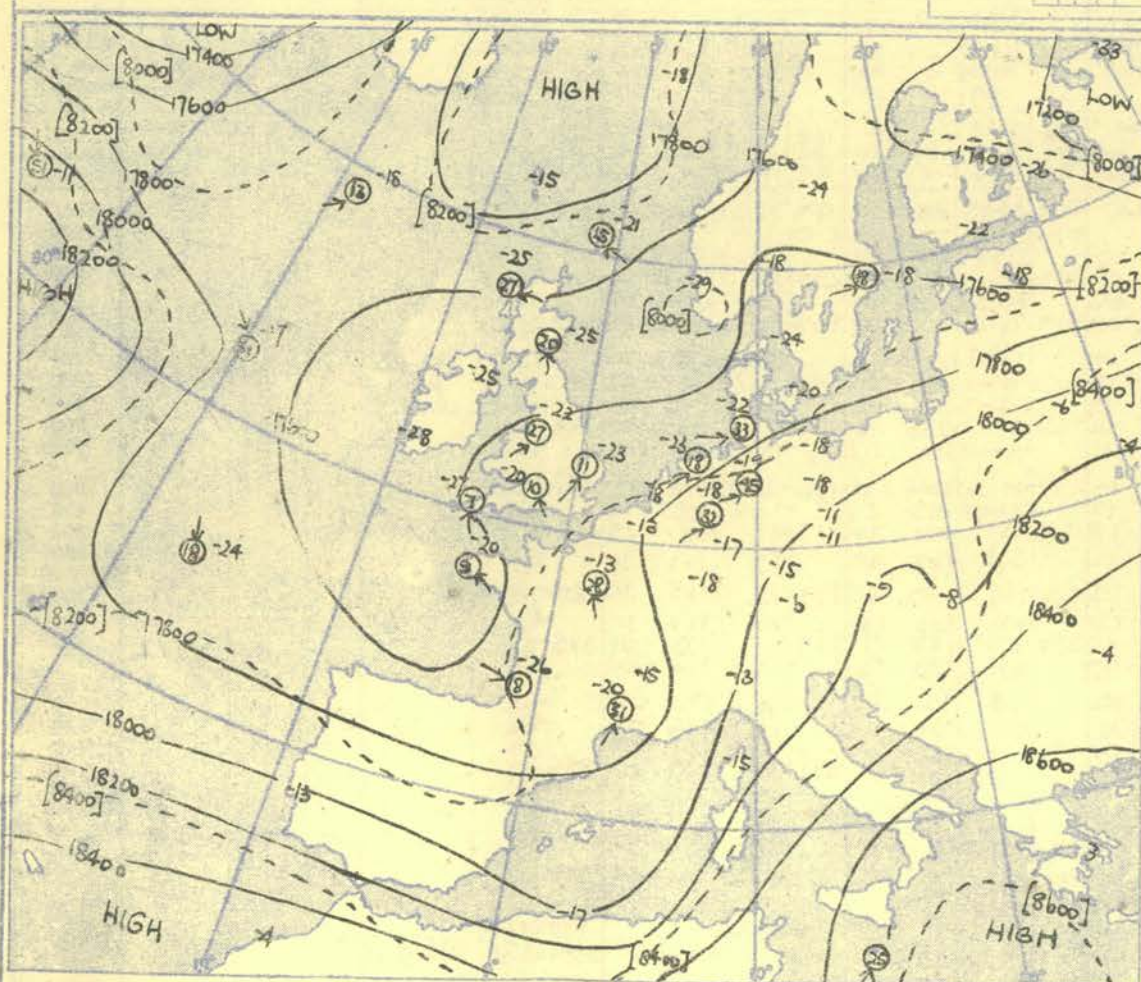
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

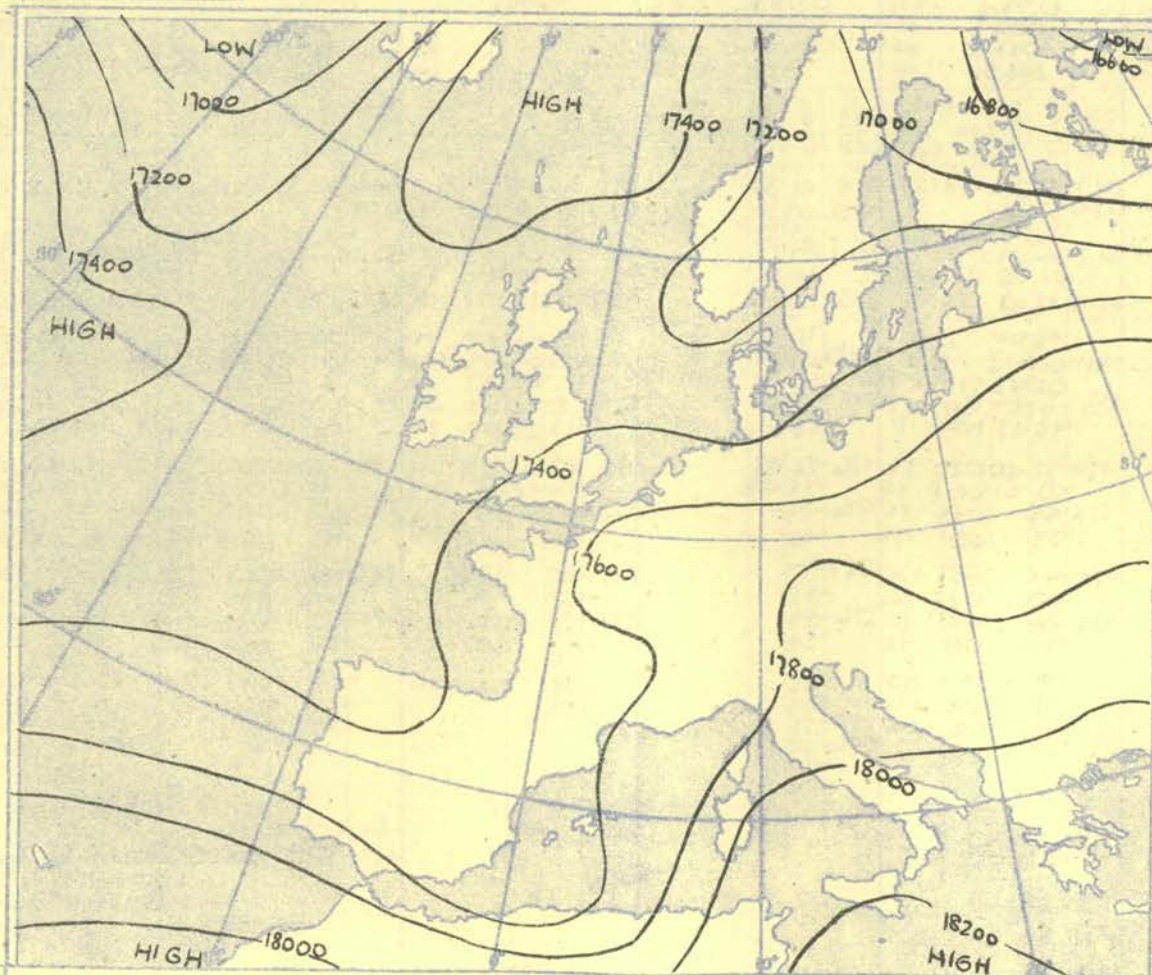
100 80 60 40 20 10 0 Knots



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb.



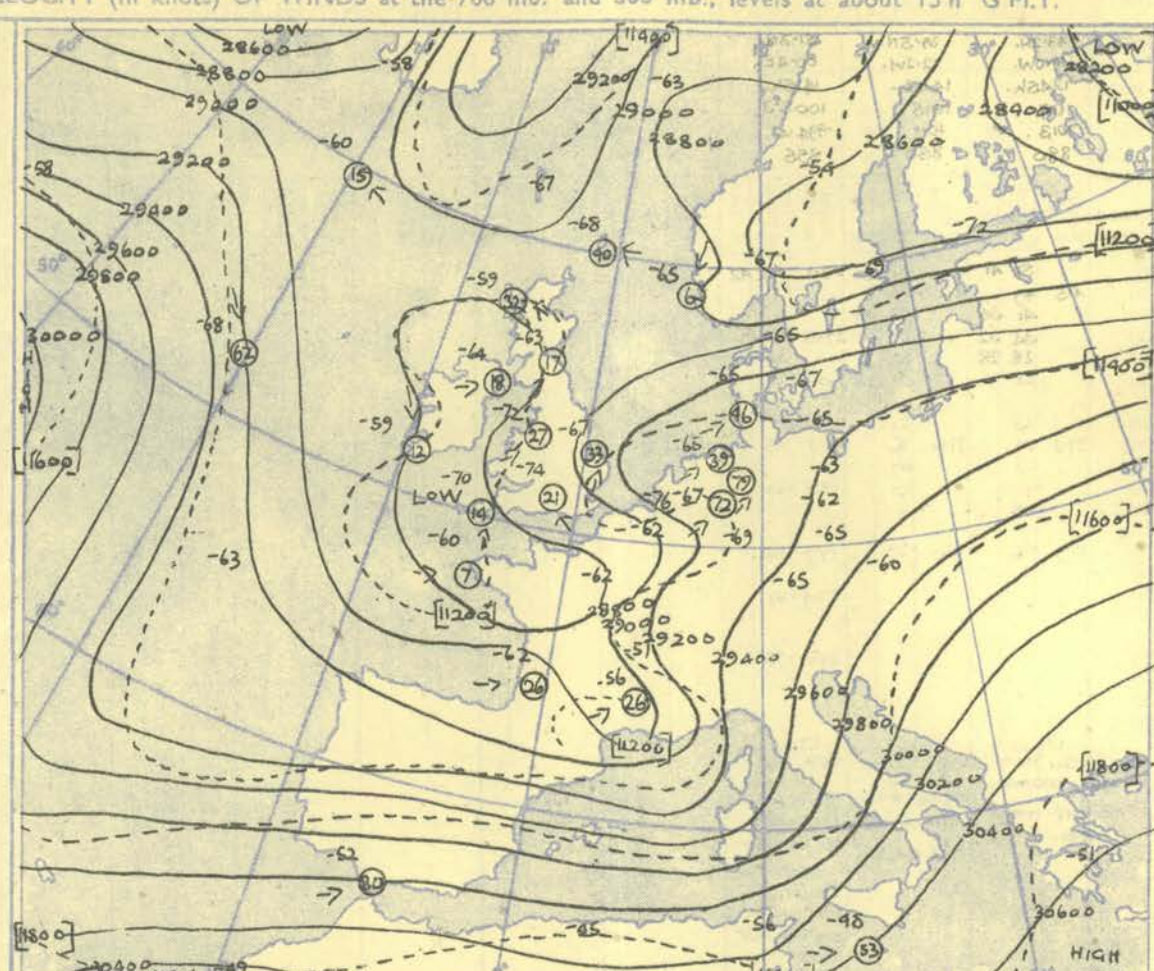
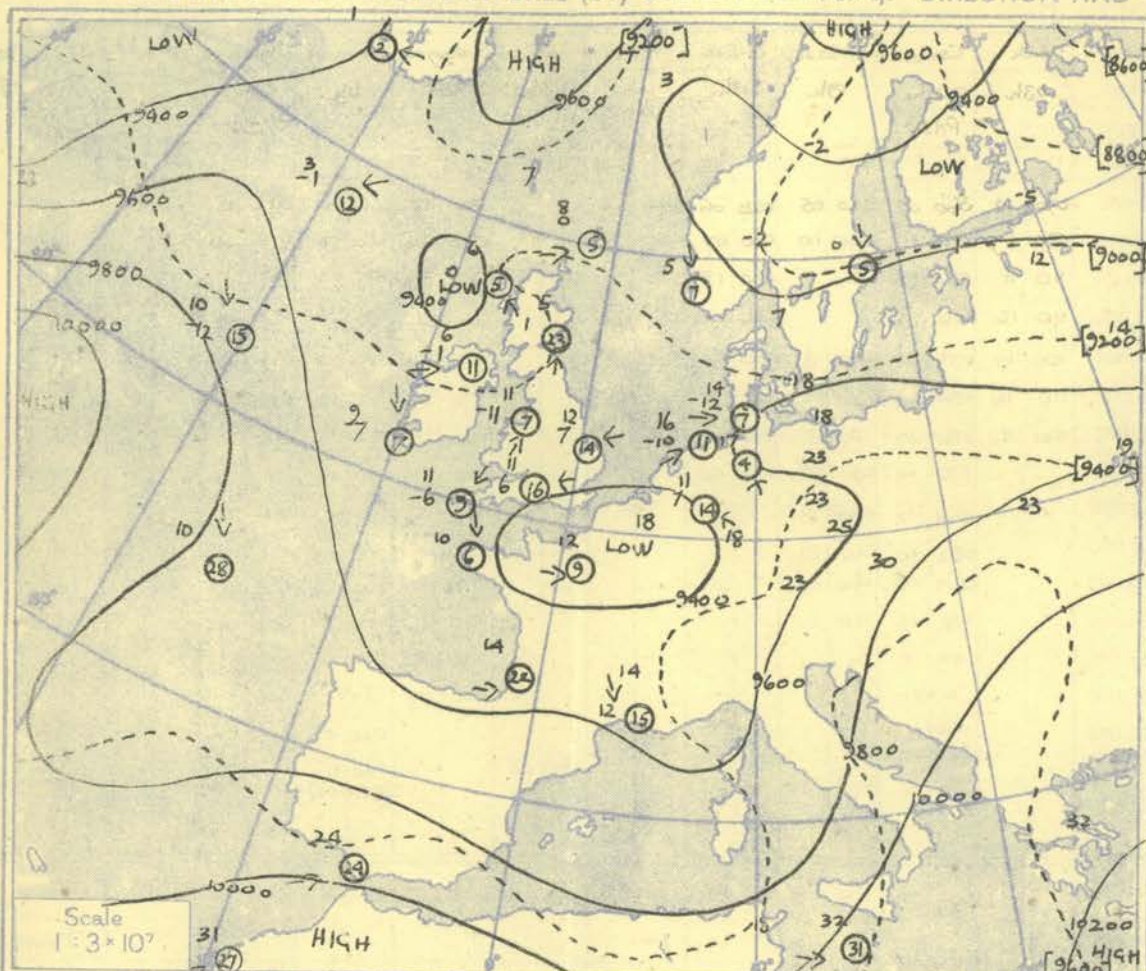
The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



Isopleths of Thickness 500-1000mb.

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY															DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.														
W. 43-2N.		39-5N.		31-3N.												Place	Wick	Cambridge	St. Eval	St. Eval	Wick	Stormon	Shoburn	Stormon	Cambridge	METEOROLOGICAL			
17-0W.		12-2W.		00-4E.												Time	03h.	09h.	09h.	13h.	15h.	15h.	15h.	21h.	Time				
1245h.		1415h.		1415h.												Type	Pillar								Pillar		Time		
1017 mb		1015 mb		1005.3 mb		mb		mb		mb		mb		mb		Feet	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	
1013 mb		1011 mb		994.4 mb		mb		mb		mb		mb		mb		Surf.	090	12	060	02	040	05	020	06	140	04	010	12	
880 mb		850 mb		855 mb		mb		mb		mb		mb		mb		1,000	090	13	010	11	050	10	020	07	150	15	030	24	
																2,000	110	11	020	08			030	18	150	11	060	28	
																3,000	110	16	026	07			020	10	170	11	070	24	
																4,000	100	12	038	06	070	13	050	10	160	12	070	27	
																5,000	110	16	054	06					170	12	070	27	
																6,000	100	11	076	07	100	10	010	19	150	11	060	25	
																8,000			070	10	050	08	010	05			050	18	
																10,000			064	12	070	13					060	13	
																14,000			062	10	040	13					050	17	
																18,000			085	08	060	07					110	12	
																24,000			132	13	120	11					120	26	
																30,000			149	11							140	34	
																40,000			L+V.								210	07	
																50,000			above								040	07	
																			30,000ft.								040	06	
																												327	05

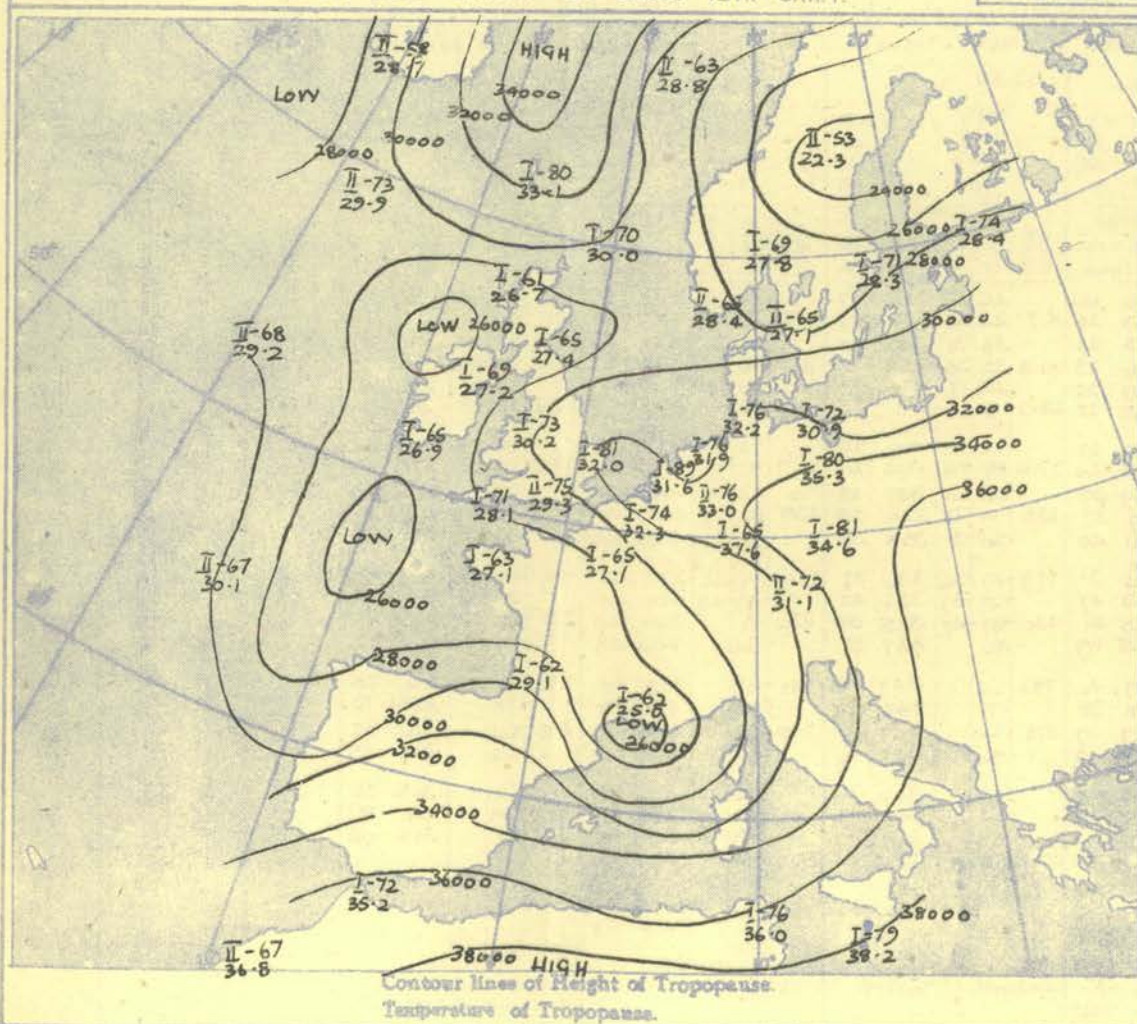
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15h G.M.T.



Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

100 60 40 30 20 10 5 knots

TROPOPAUSE CHART at about 15h. G.M.T.

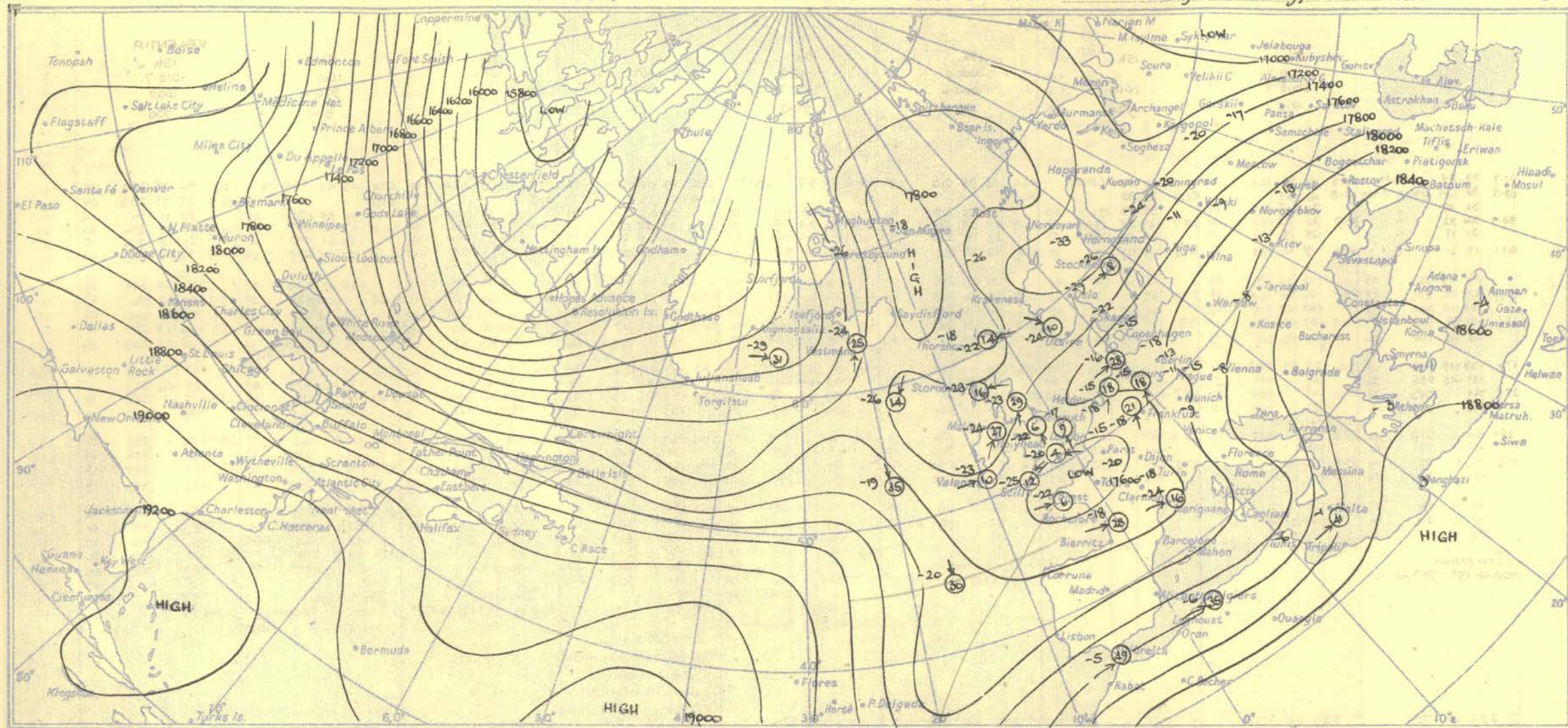


NOTES ON THE AEROLOGICAL SITUATION.

Continued cooling just west of Scotland. Steady eastward movement of the warm air associated with the depression on the western Atlantic.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.-.

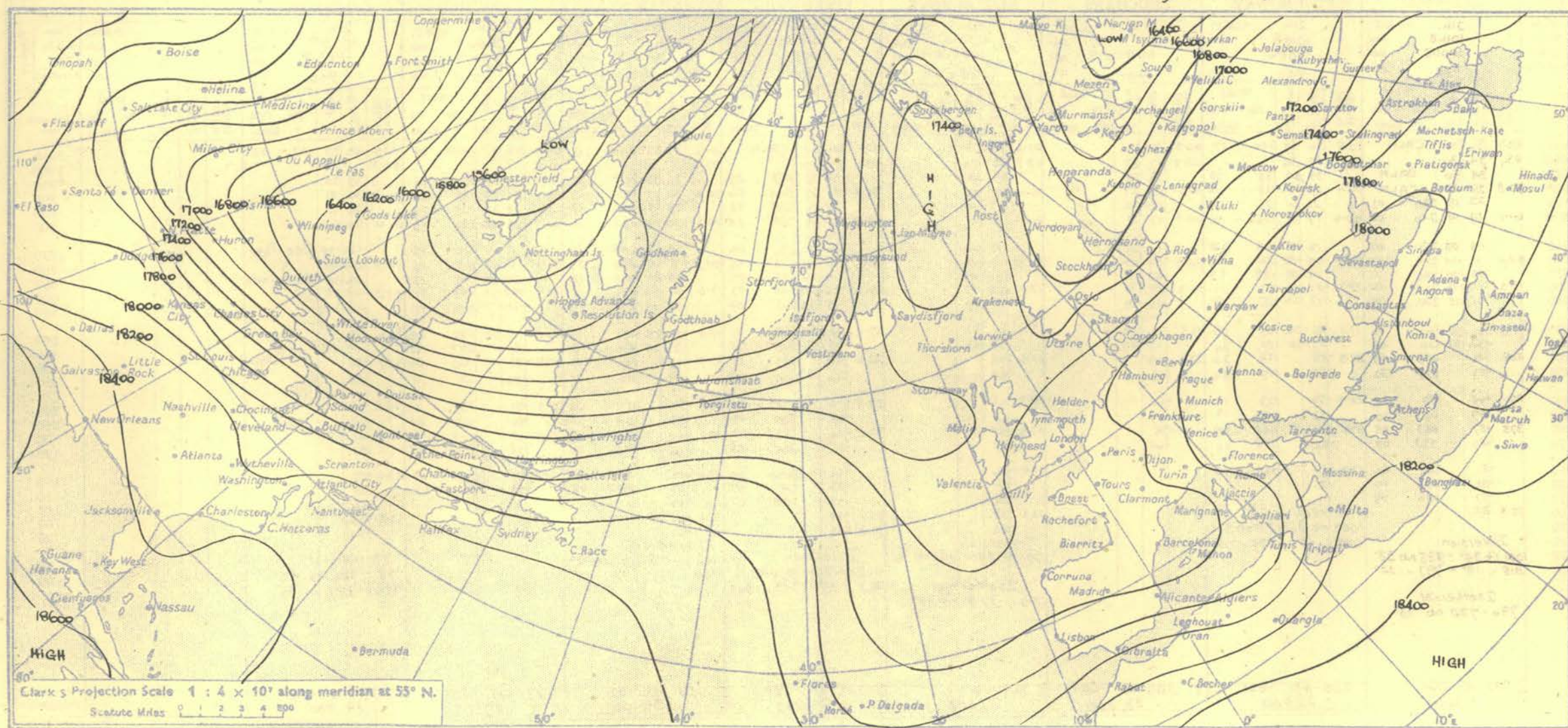
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T.

Tuesday 13th February, 1951.

1951.



Clark's Projection Scale 1 : 4 x 10⁷ along meridian at 55° N.

Scale in Miles 0 1 2 3 4 5 6

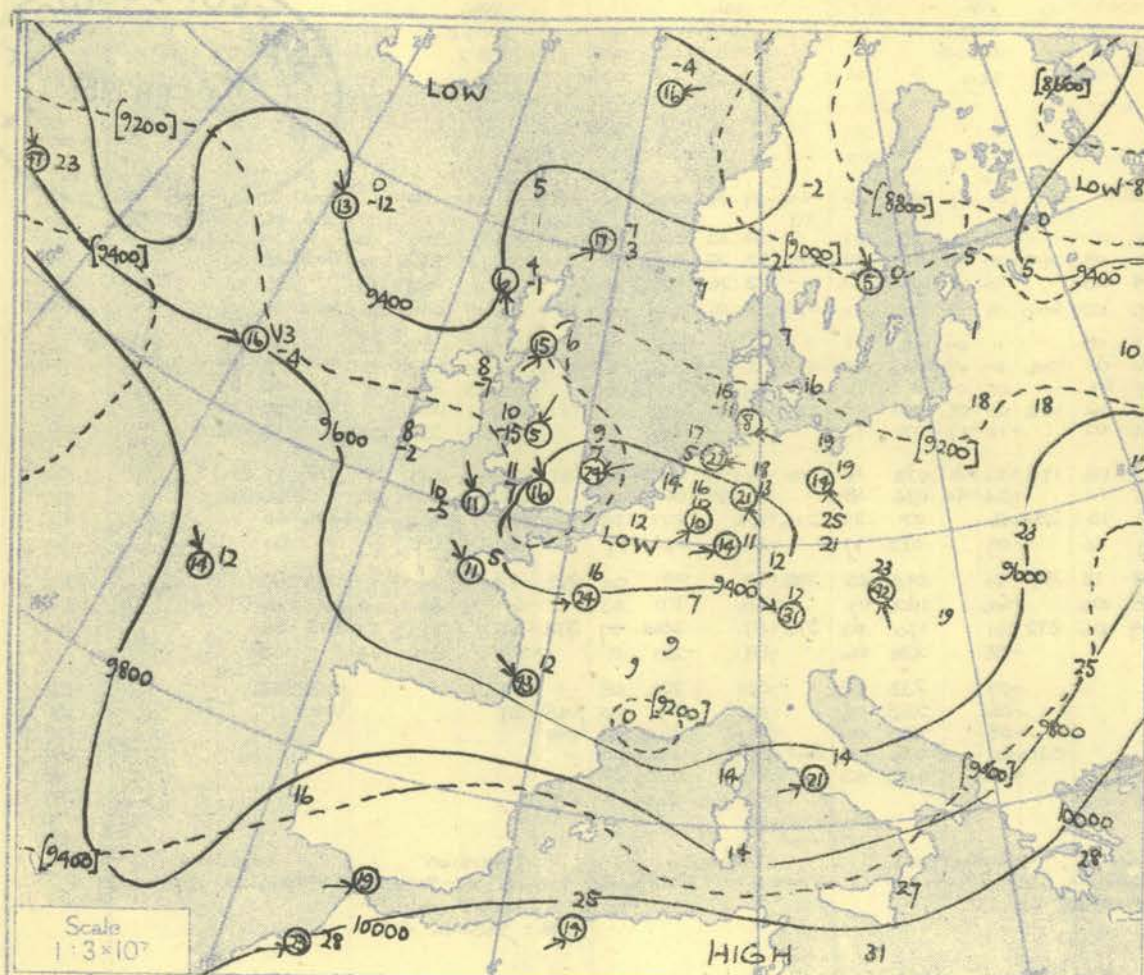
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION							
Pressure mb	Time M.S.L.	Surf Freezing	15h.		G.M.T.		15h.		G.M.T.		15h.		G.M.T.		15h.		G.M.T.		15h.		G.M.T.		15h.		G.M.T.		15h.		G.M.T.		15h.		G.M.T.		Time M.S.L.	Surf Freezing	Pressure mb							
			1012.1	mb	1002.9	mb	1010.5	mb	1008.8	mb	1010.0	mb	1009.9	mb	1000.6	mb	1007.2	mb	1007.0	mb	1002.5	mb	1006.5	mb	990.1	mb	1007.3	mb	1006.6	mb	1010.7	mb	1009	mb										
			950			913			920			939			900			870			874			869			900																	
Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots									
Surf	02.7	39	34	CALM	00.5	42	35	20	05	00.2	40	38	CALM	02.6	40	35	210	05	00.6	40	38	CALM	01.2	43	40	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	Surf		
1000	03.5	38	34	WV < 5kts	02.8	41	34	20	05	02.9	39	38	CALM	02.7	40	35	210	05	00.5	40	38	CALM	01.9	42	39	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	1000		
950	03.2	37	33	"	02.7	40	33	19	05	02.8	38	37	19	05	02.8	39	34	210	05	00.6	39	37	19	05	01.9	41	38	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	950
900	03.0	36	32	"	02.6	39	32	19	05	02.7	37	36	19	05	02.9	38	33	210	05	00.7	38	35	19	05	01.8	40	37	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	900
850	02.9	35	31	"	02.5	38	31	19	05	02.6	36	35	19	05	03.0	37	32	210	05	00.8	37	34	19	05	01.7	39	36	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	850
800	02.8	34	30	"	02.4	37	30	19	05	02.5	35	34	19	05	03.1	36	31	210	05	00.9	36	33	19	05	01.6	38	35	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	800
750	02.7	33	29	"	02.3	36	29	19	05	02.4	34	33	19	05	03.2	35	30	210	05	01.0	35	32	19	05	01.5	37	34	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	750
700	02.6	32	28	"	02.2	35	28	19	05	02.3	33	32	19	05	03.3	34	29	210	05	01.1	34	31	19	05	01.4	36	33	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	700
650	02.5	31	27	"	02.1	34	27	19	05	02.2	32	31	19	05	03.4	33	28	210	05	01.2	33	30	19	05	01.3	35	32	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	650
600	02.4	30	26	"	02.0	33	26	19	05	02.1	31	30	19	05	03.5	32	27	210	05	01.3	32	29	19	05	01.2	34	31	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	600
550	02.3	29	25	"	01.9	32	25	19	05	02.0	30	29	19	05	03.6	31	26	210	05	01.4	31	28	19	05	01.1	33	30	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	550
500	02.2	28	24	"	01.8	31	24	19	05	01.9	29	28	19	05	03.7	30	25	210	05	01.5	30	27	19	05	01.0	32	29	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	500
450	02.1	27	23	"	01.7	30	23	19	05	01.8	28	27	19	05	03.8	29	24	210	05	01.6	29	26	19	05	00.9	31	28	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	450
400	02.0	26	22	"	01.6	29	22	19	05	01.7	27	26	19	05	03.9	28	23	210	05	01.7	28	25	19	05	00.8	30	27	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	400
350	01.9	25	21	"	01.5	28	21	19	05	01.6	26	25	19	05	04.0	27	22	210	05	01.8	27	24	19	05	00.7	29	26	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	350
300	01.8	24	20	"	01.4	27	20	19	05	01.5	25	24	19	05	04.1	26	21	210	05	01.9	26	23	19	05	00.6	28	25	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	300
250	01.7	23	19	"	01.3	26	19	19	05	01.4	24	23	19	05	04.2	25	20	210	05	02.0	25	22	19	05	00.5	27	24	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	250
200	01.6	22	18	"	01.2	25	18	19	05	01.3	23	22	19	05	04.3	24	19	210	05	02.1	24	21	19	05	00.4	26	23	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	200
170	01.5	21	17	"	01.1	24	17	19	05	01.2	22	21	19	05	04.4	23	18	210	05	02.2	23	20	19	05	00.3	25	22	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	170
150	01.4	20	16	"	01.0	23	16	19	05	01.1	21	20	19	05	04.5	22	17	210	05	02.3	22	19	19	05	00.2	24	21	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	150
130	01.3	19	15	"	00.9	22	15	19	05	01.0	20	19	19	05	04.6	21	16	210	05	02.4	21	18	19	05	00.1	23	20	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	130
110	01.2	18	14	"	00.8	21	14	19	05	00.9	19	18	19	05	04.7	20	15	210	05	02.5	20	17	19	05	00.0	22	19	040	12	04.4	37	36	050	12	02.9	45	40	CALM	00.3	46	38	280	04	110
90	01.1	17	13	"	00.7	20	13	19																																				

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)																																			
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION	
Pressure	Time	03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		03h.		G.M.T.		Time					
	M.S.L.	1010.6		mb		1009.4		mb		1010.6		mb		1010.1		mb		1010.1		mb		1007.0		mb		1007.1		mb			M.S.L.				
	Surf	1000.3		mb		1007.7		mb		1009.7		mb		1008.0		mb		1007.0		mb		990.7		mb		990.2		mb				Surf			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992			mb		
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb		958		mb		949		mb		940		mb		992		mb			
Pressure		932		mb		932		mb		925		mb		935		mb																			

Wednesday 14th February 1951.

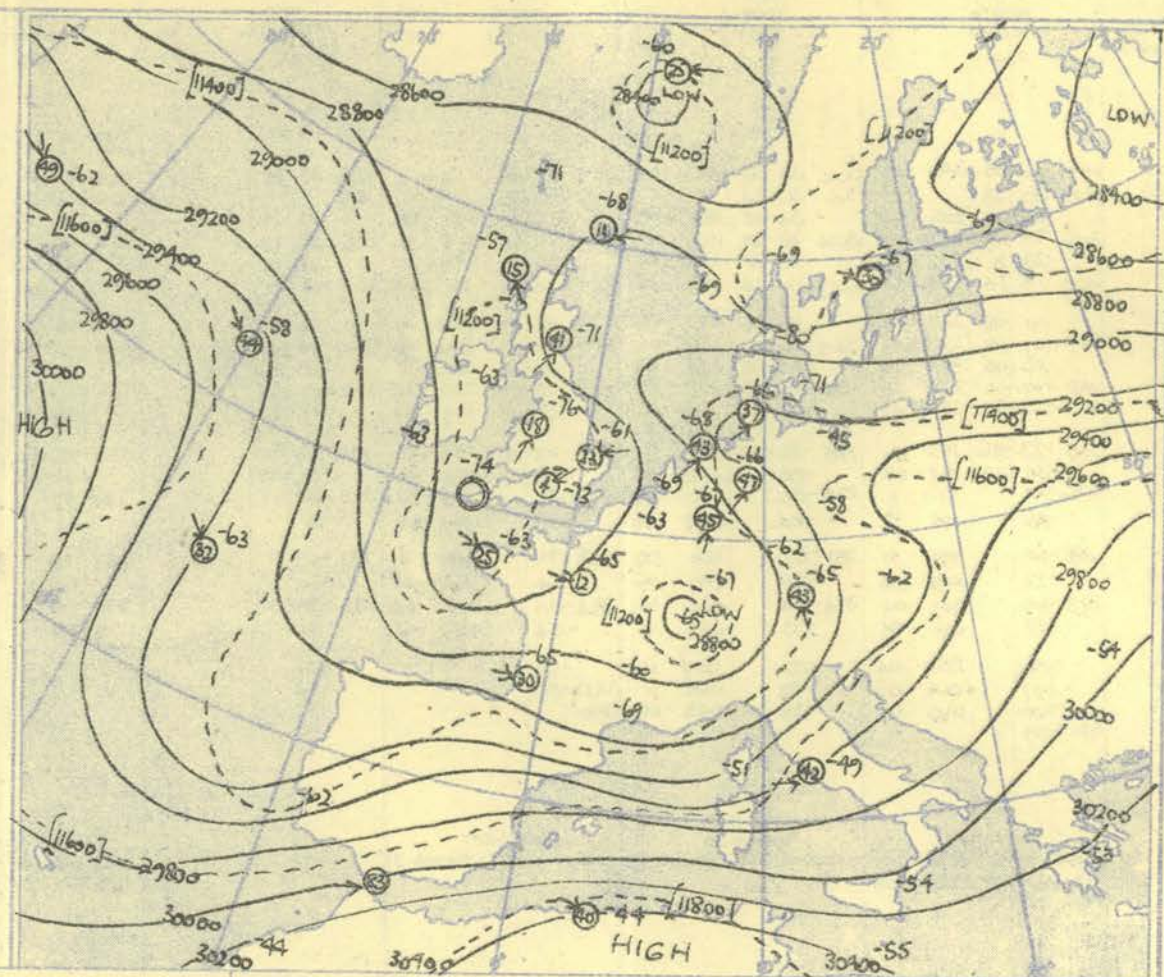
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03h G.M.T.



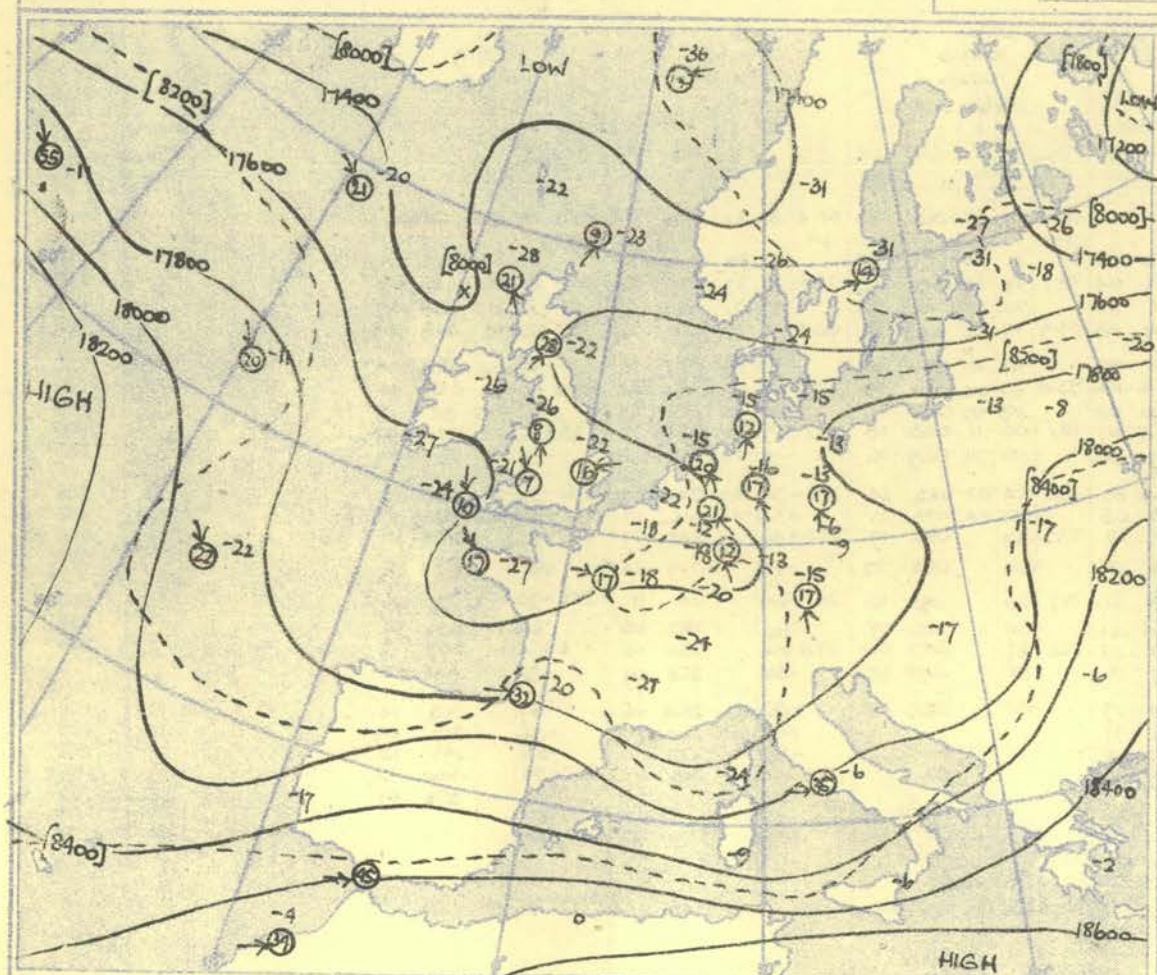
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 300 ft at Lat. 52 $\frac{1}{2}$ ° N.

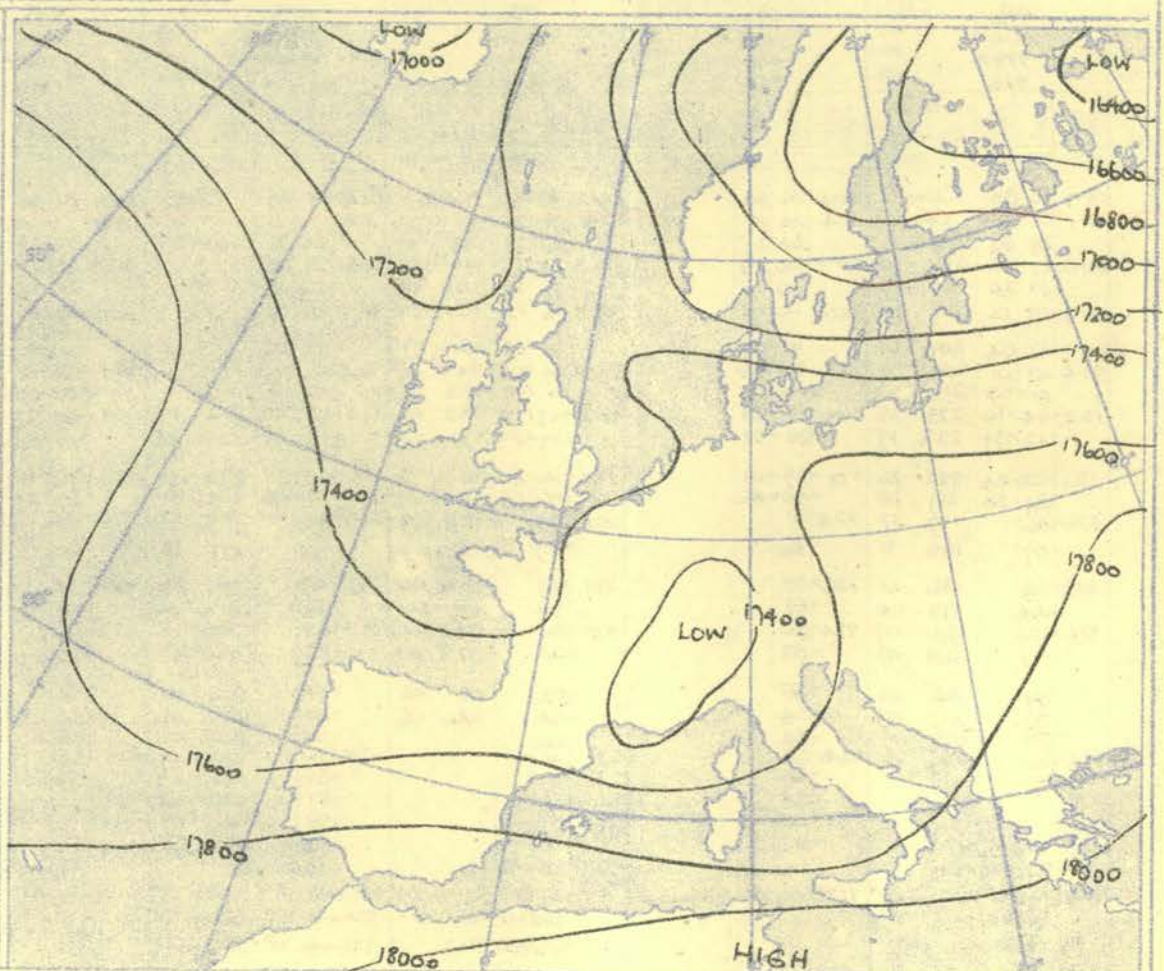
00 30 60 90 120 150 180 knots



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb.



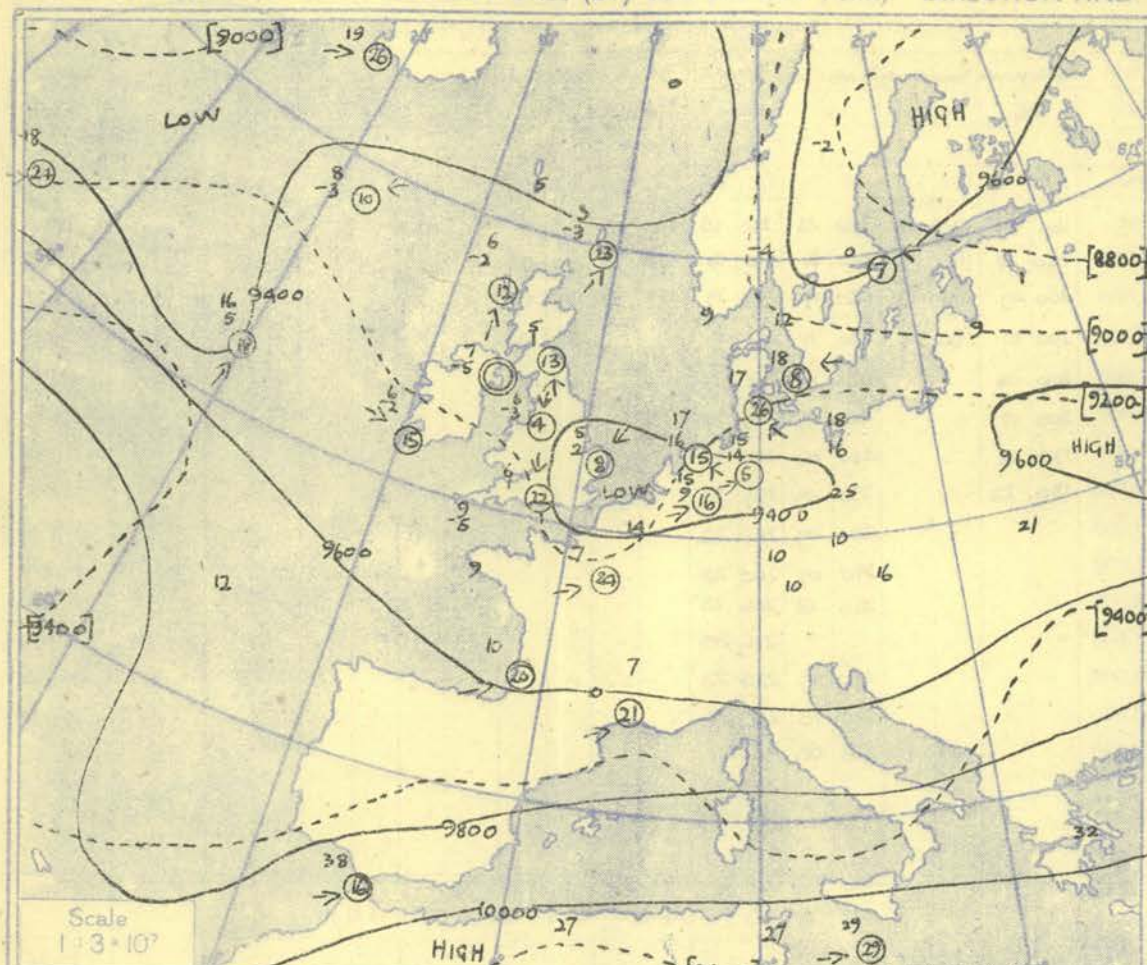
The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



Isopleths of Thickness 500-1000mb.

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY																	DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.																																	
Time M.S.L. Surf Freezing	49-58. 17-OW. 14h.			52-2N. 13-SW. 1530			43-2N. 17-OW. 1230h.			39-5N. 12-2W. 1415h.																					Time M.S.L. Surf Freezing	Pressure mb																		
	Pressure mb	Height ft./100	Dew °F.	Pressure mb	Height ft./100	Dew °F.	Pressure mb	Height ft./100	Dew °F.	Pressure mb	Height ft./100	Dew °F.	Pressure mb	Height ft./100	Dew °F.	Pressure mb	Height ft./100	Dew °F.	Pressure mb	Height ft./100	Dew °F.	Pressure mb	Height ft./100	Dew °F.	Pressure mb	Height ft./100	Dew °F.	Pressure mb	Height ft./100	Dew °F.																				
Surf	010	45	39	010	44	40	47	41	34	43	37																	Surf																						
1000	23			30																								1000																						
950		39	37		37	37		41	34	43	37																	950																						
900	30.4	32	30	31.0	29	29		33	29	37																		900																						
850		26			25			26	26	30																		850																						
800	61.0	21		61.4	19			22		25																		800																						
750		19			13			18		19																		750																						
700	95.0	13		95.2	07		97.5	12		97.6	18																	700																						
650		10			02			09		14																		650																						
600	134	02		133	-02			03		08																		600																						
550		-05			-05			-05		-06																		550																						
500	178	-18		177	-17		180	-14		180	-17																	500																						
450																												450																						
400																												400																						
350																												350																						
300																												300																						
250																												250																						
200																												200																						
170																												170																						
Cloud: 4/8 Cu 940 - 84omb. 8/8 Ac 780 - 74omb. 4/8 Ac 590 - 53omb. 6/8 Cs 30x - 30xmb.																	Cloud: 4/8 Cu 930 - 82omb. 7/8 As 630 - 41xmb. 4/8 Ac 590 - 53omb. 6/8 Cs 30x - 30xmb.																	Cloud: 4/8 Cu 930 - 90omb. 1/8 Cu 930 - 81omb. 5/8 Sc 860 - 85omb. 3/8 As 320 - 50omb. Surf. wind: N.W. 7-10kts.																

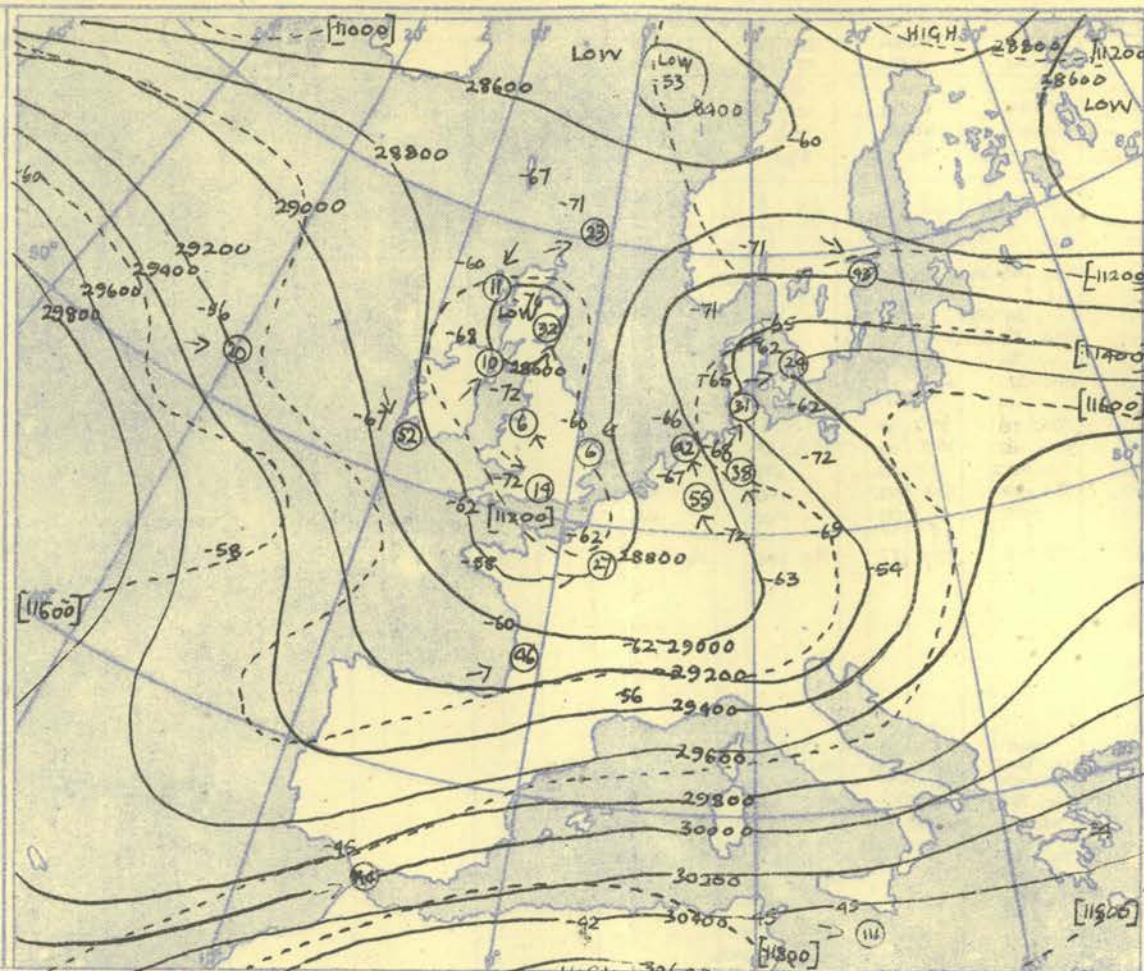
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15 h. G.M.T.



The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

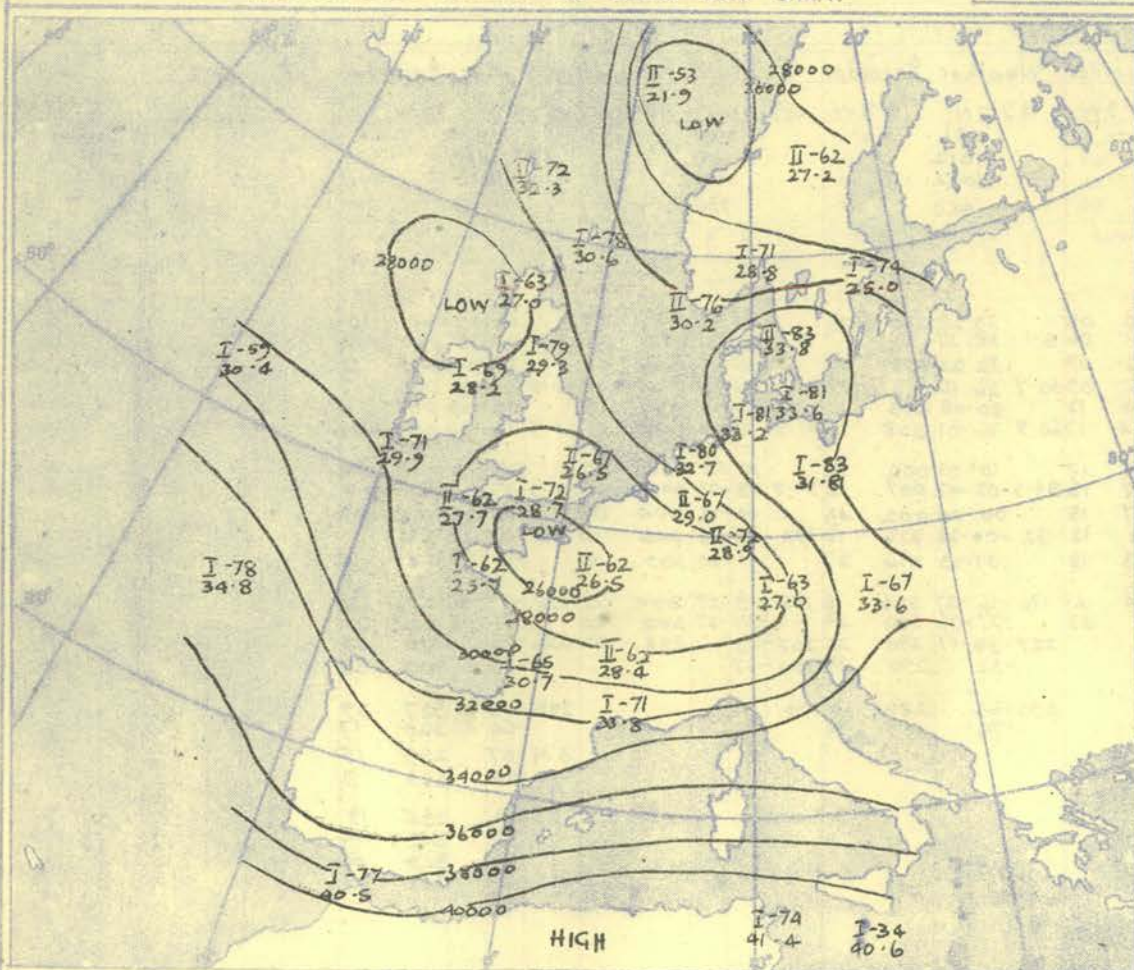
Gradient Wind Scale for Contours at intervals of 200 ft. at Lat. 52° N.

100 80 60 40 20 10 0 10 knots



The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

TROPOPAUSE CHART at about 15h. G.M.T.



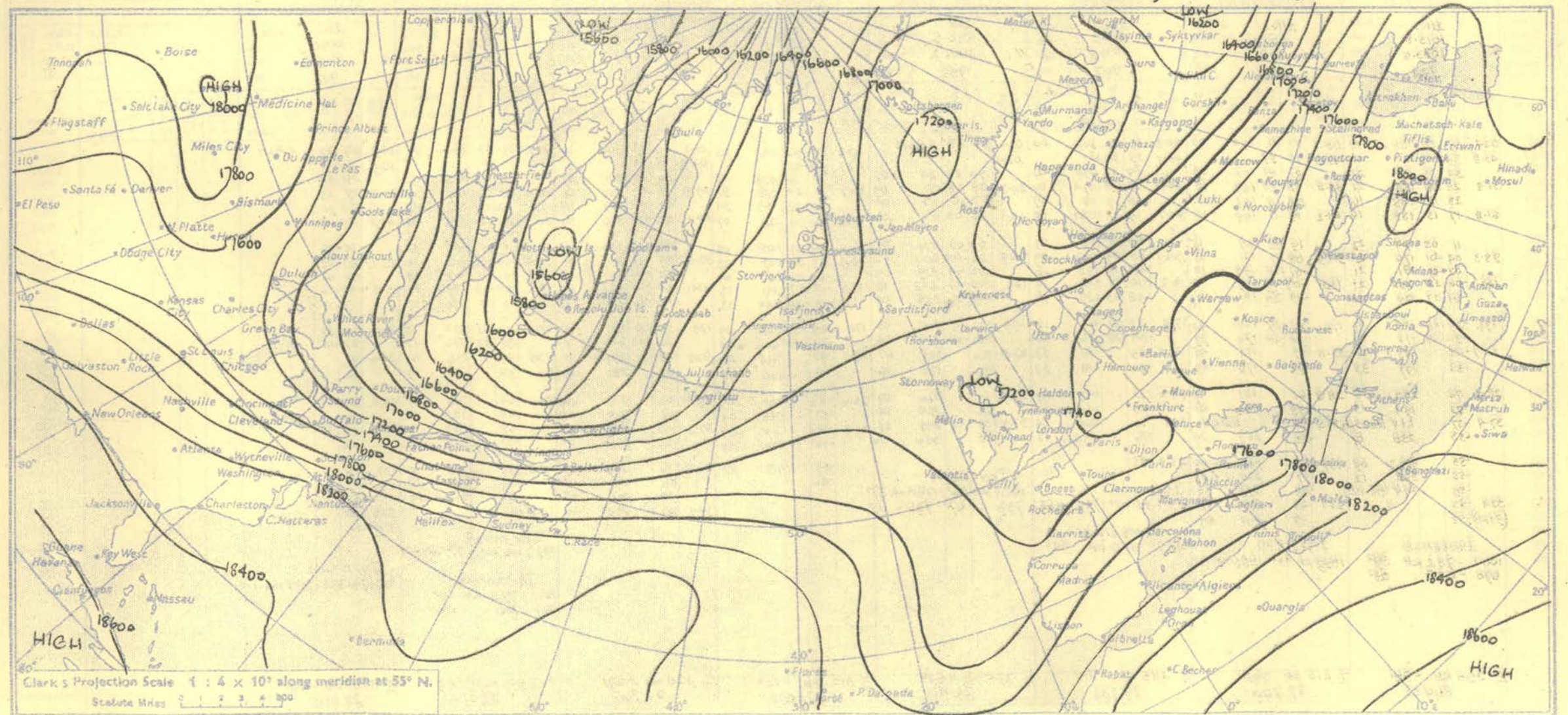
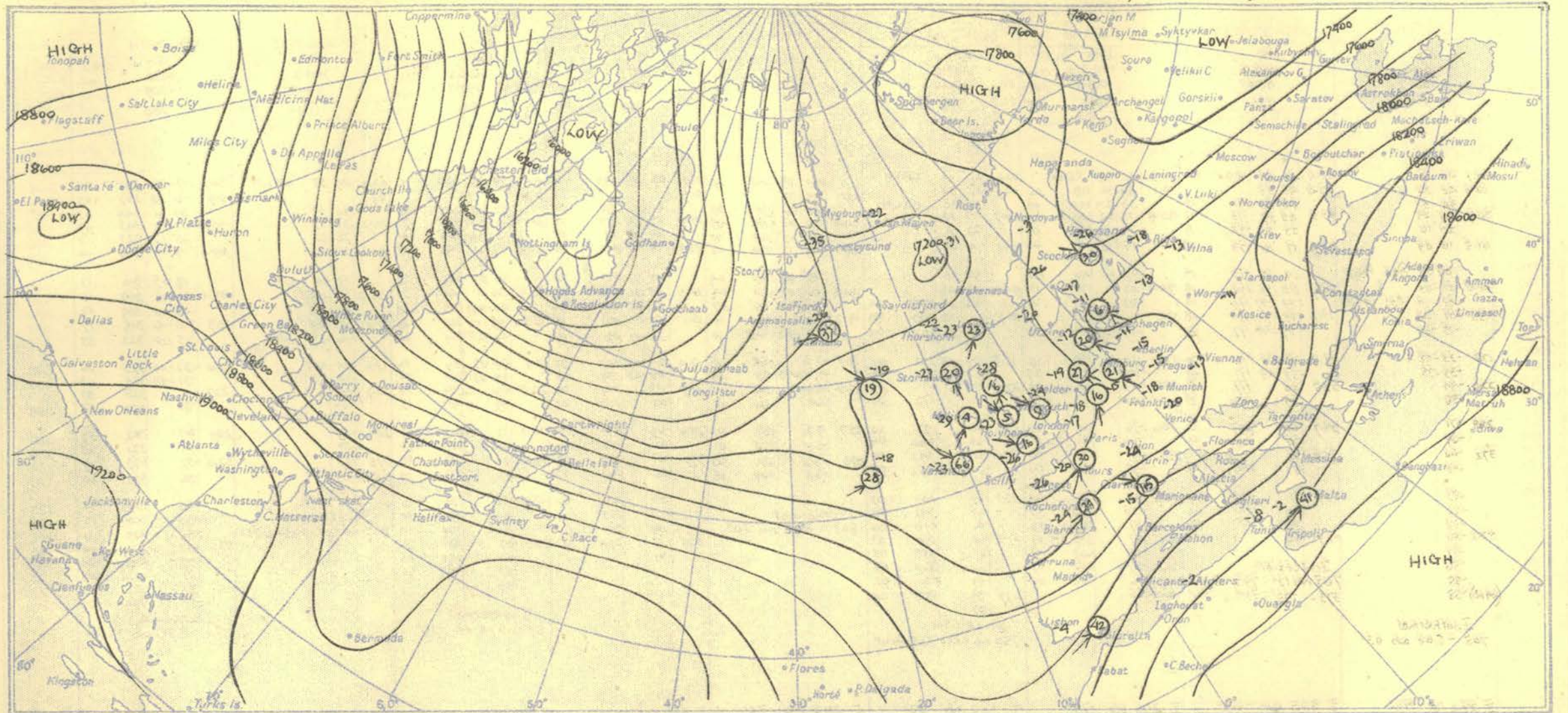
Contour lines of Height of Tropopause.
Temperature of Tropopause.

NOTES ON THE AEROLOGICAL SITUATION.

Cold trough moved east to cover the British Isles with a small cold pool over Scotland. Warm air moved slowly east over the Central Atlantic in association with depression.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

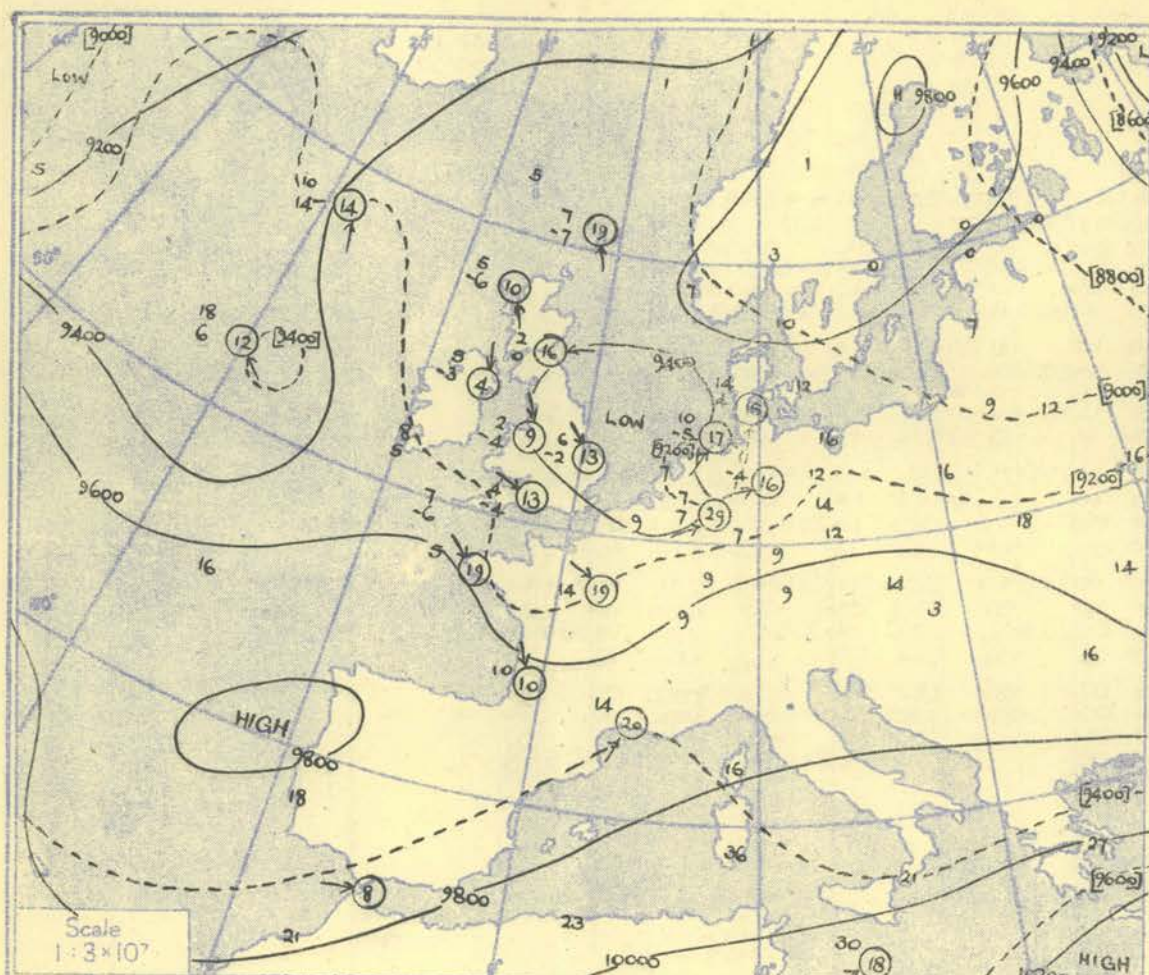
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
Nelson K. Johnson, K.C.B., D.Sc., Director.



RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				Valentia				STATION			
Pressure mb	Time M.S.L.	03hrs		G.M.T.	mb	03hrs		G.M.T.	mb	03hrs		G.M.T.	mb	03hrs		G.M.T.	mb	03hrs		G.M.T.	mb	03hrs		G.M.T.	mb	03hrs		G.M.T.	mb	03hrs		G.M.T.	mb	Time M.S.L.	Pressure mb						
		1013.7	1005.3			1011.3	1009.6			1012.1	1011.2			1010.7	1001.2			1010.7	1008.1			1009.0	1004.4			1010.4	993.4			1010.8	1000.0					1010.8	1005.3				
Surf	02.7	37	36	165	18	0.4	40	33	160	05	0.2	34	33	calm	02.6	33	32	140	02	0.6	24	33	calm	01.2	34	33	290	08	4.4	34	32	280	02	0.3	38	31	calm	0.3	41	35	
1000	04.1	37	35			0.3	39	32		03.2	33	31		02.9	32	30	144	04	0.7	35	34	030	07	02.4	34	33			2.7	34	31		2.9	38	31		2.1	40	34		
950	31.7	26	24	160	23	30.8	28	19	156	06	30.8	26	23	062	09	30.7	27	24	142	05	30.3	25	22	026	07	30.0	28	22	322	14	30.5	26	272	13	30.9	28	29		30.0	20	23
900	20.1	18	159	23	61.1	16	14	148	05	60.9	14	13	068	12	22	20	137	06	60.4	15	13	348	10	60.2	16	11	311	13	60.7	16	13	274	14	61.5	19	14		60.5	20	14	
850	15.0	15	15	17	11	05	139	09	08	06	074	16	08	04	238	03	09	06	247	10	11	05	303	14	09	04	275	14	12	04		12	04		15	10		750			
800	02.2	20	18	159	23	61.1	16	14	148	05	60.9	14	13	068	12	22	20	137	06	60.4	15	13	348	10	60.2	16	11	311	13	60.7	16	13	274	14	61.5	19	14		60.5	20	14
750	00.0	15	15	17	11	05	139	09	08	06	074	16	08	04	238	03	09	06	247	10	11	05	303	14	09	04	275	14	12	04		12	04		15	10		700			
700	02.2	20	18	159	23	61.1	16	14	148	05	60.9	14	13	068	12	22	20	137	06	60.4	15	13	348	10	60.2	16	11	311	13	60.7	16	13	274	14	61.5	19	14		60.5	20	14
650	00.0	15	15	17	11	05	139	09	08	06	074	16	08	04	238	03	09	06	247	10	11	05	303	14	09	04	275	14	12	04		12	04		15	10		650			
600	02.2	20	18	159	23	61.1	16	14	148	05	60.9	14	13	068	12	22	20	137	06	60.4	15	13	348	10	60.2	16	11	311	13	60.7	16	13	274	14							

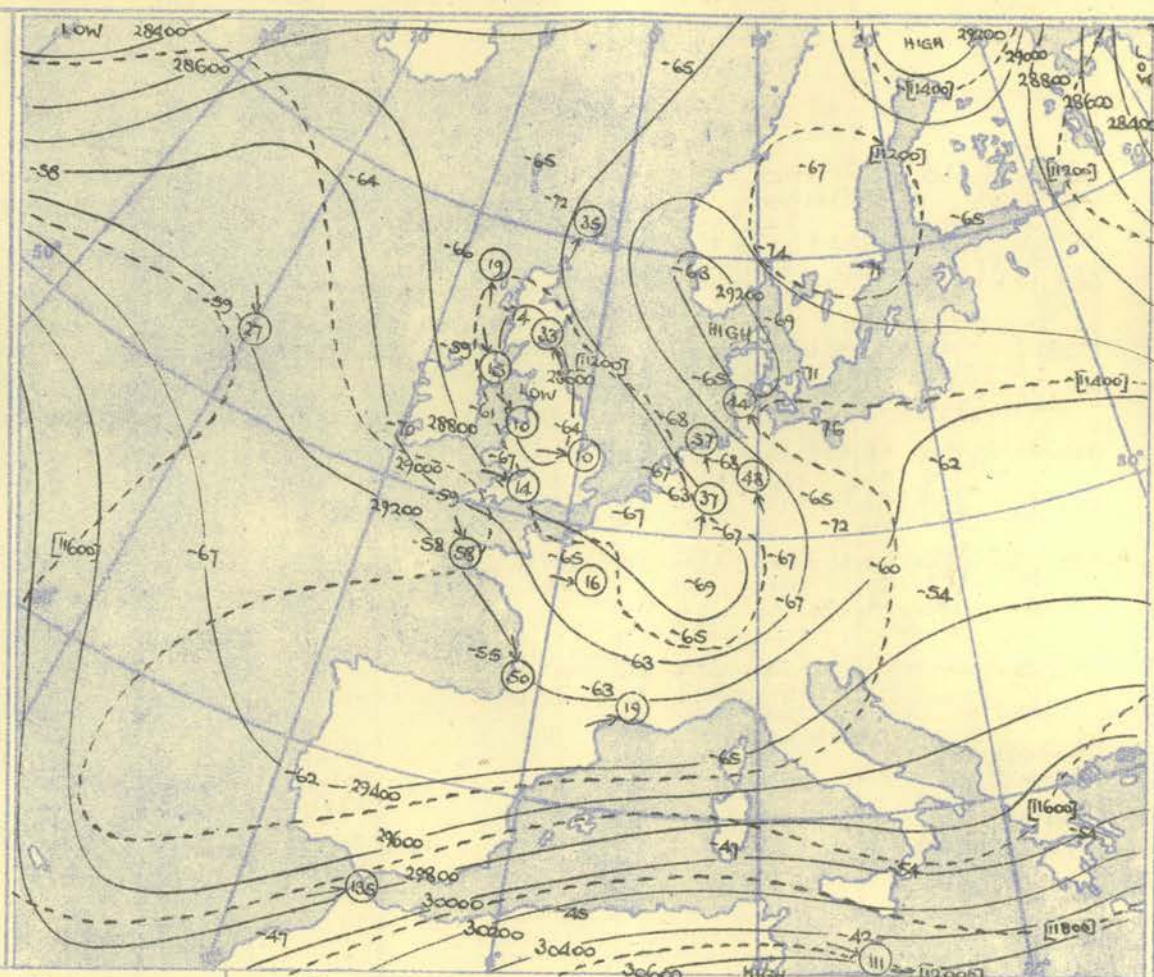
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h G.M.T.



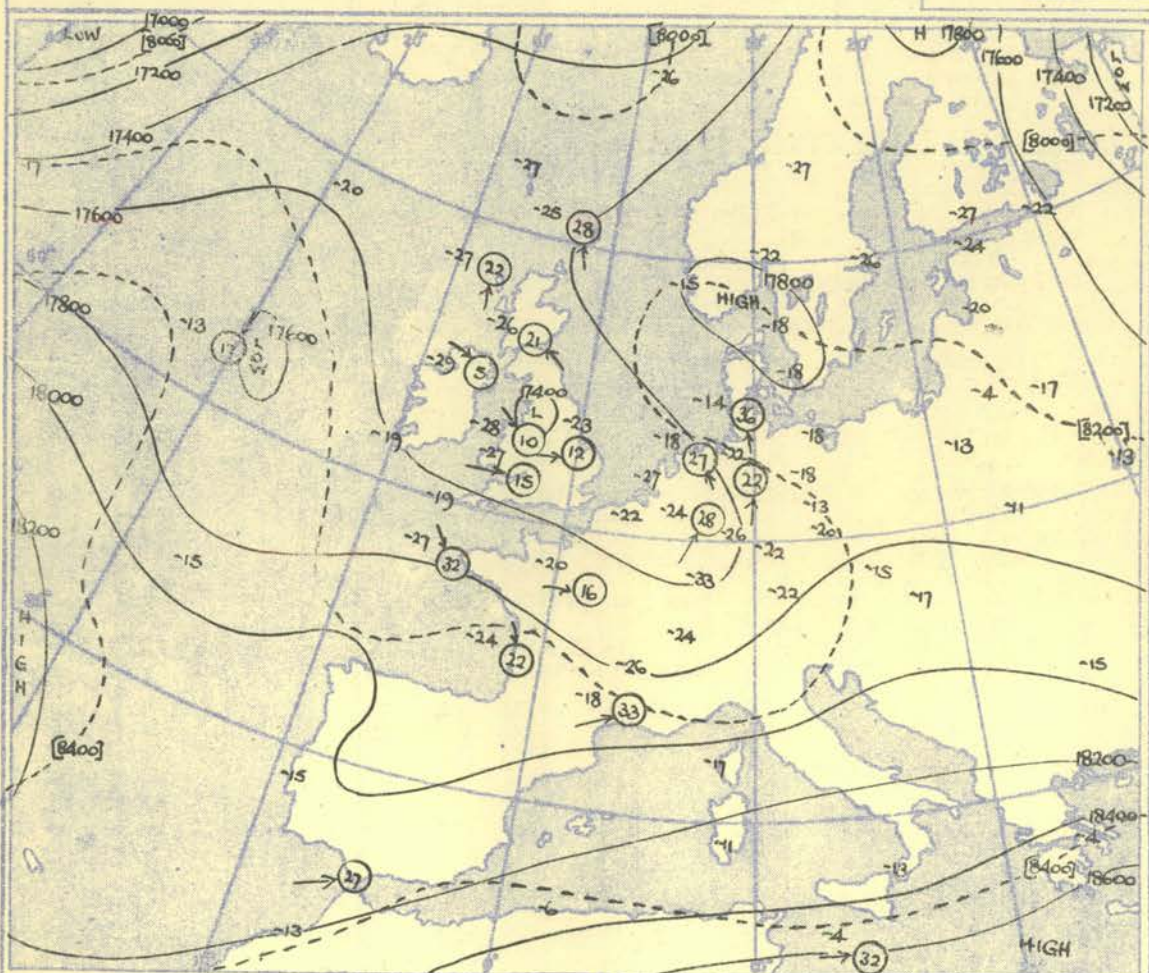
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

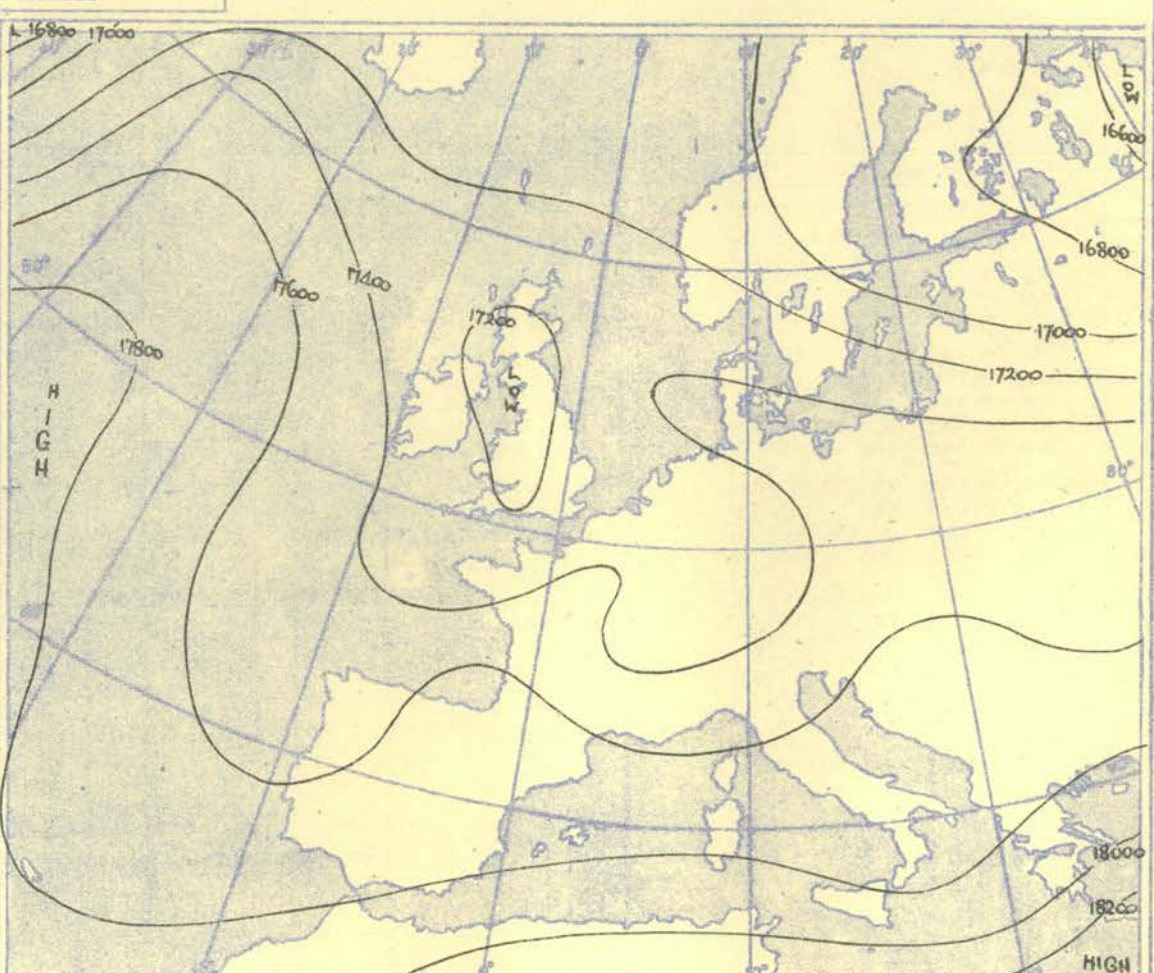
100 80 60 40 20 10 knots



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



Isopleths of Thickness 500-1000mb.

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

Time	Pressure	Height	Temp.	Dew	Time	Pressure	Height	Temp.	Dew
01:40 hrs	mb	ft./100	°F.	°F.	01:40 hrs	mb	ft./100	°F.	°F.
1011.4	mb				1011.4	mb			
999.8	mb				999.8	mb			
930	mb				930	mb			
Surf	mb	ft./100	°F.	°F.	Surf	mb	ft./100	°F.	°F.
1000	mb	ft./100	°F.	°F.	1000	mb	ft./100	°F.	°F.
950	mb	ft./100	°F.	°F.	950	mb	ft./100	°F.	°F.
900	mb	ft./100	°F.	°F.	900	mb	ft./100	°F.	°F.
850	mb	ft./100	°F.	°F.	850	mb	ft./100	°F.	°F.
800	mb	ft./100	°F.	°F.	800	mb	ft./100	°F.	°F.
750	mb	ft./100	°F.	°F.	750	mb	ft./100	°F.	°F.
700	mb	ft./100	°F.	°F.	700	mb	ft./100	°F.	°F.
650	mb	ft./100	°F.	°F.	650	mb	ft./100	°F.	°F.
600	mb	ft./100	°F.	°F.	600	mb	ft./100	°F.	°F.
550	mb	ft./100	°F.	°F.	550	mb	ft./100	°F.	°F.
500	mb	ft./100	°F.	°F.	500	mb	ft./100	°F.	°F.
450	mb	ft./100	°F.	°F.	450	mb	ft./100	°F.	°F.
400	mb	ft./100	°F.	°F.	400	mb	ft./100	°F.	°F.
350	mb	ft./100	°F.	°F.	350	mb	ft./100	°F.	°F.
300	mb	ft./100	°F.	°F.	300	mb	ft./100	°F.	°F.
250	mb	ft./100	°F.	°F.	250	mb	ft./100	°F.	°F.
200	mb	ft./100	°F.	°F.	200	mb	ft./100	°F.	°F.
170	mb	ft./100	°F.	°F.	170	mb	ft./100	°F.	°F.
Cloud					Cloud				
8/5-26-5					8/5-26-5				
880					880				
2683 620					2683 620				
600					600				
Inversion					Inversion				
981-236					981-236				
964-237					964-237				

DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

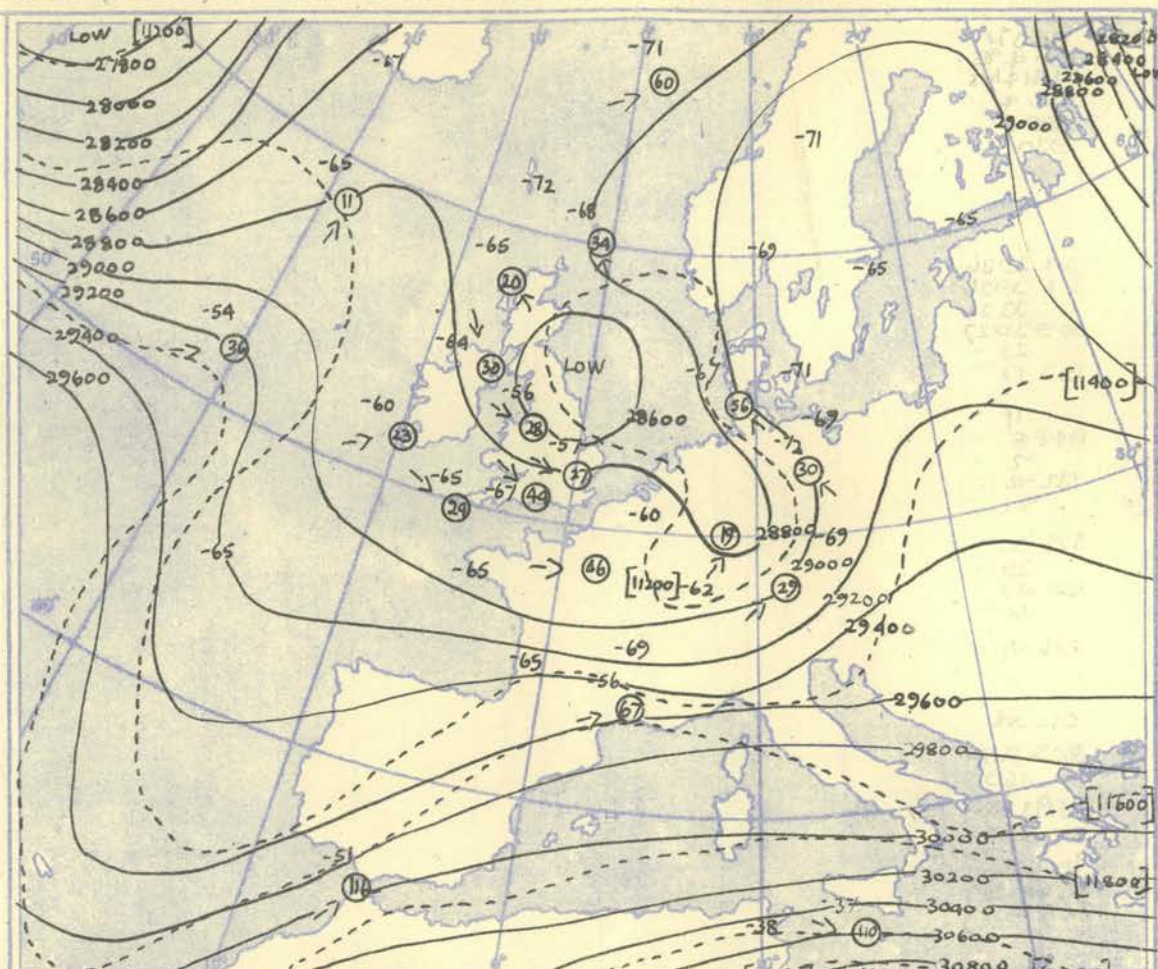
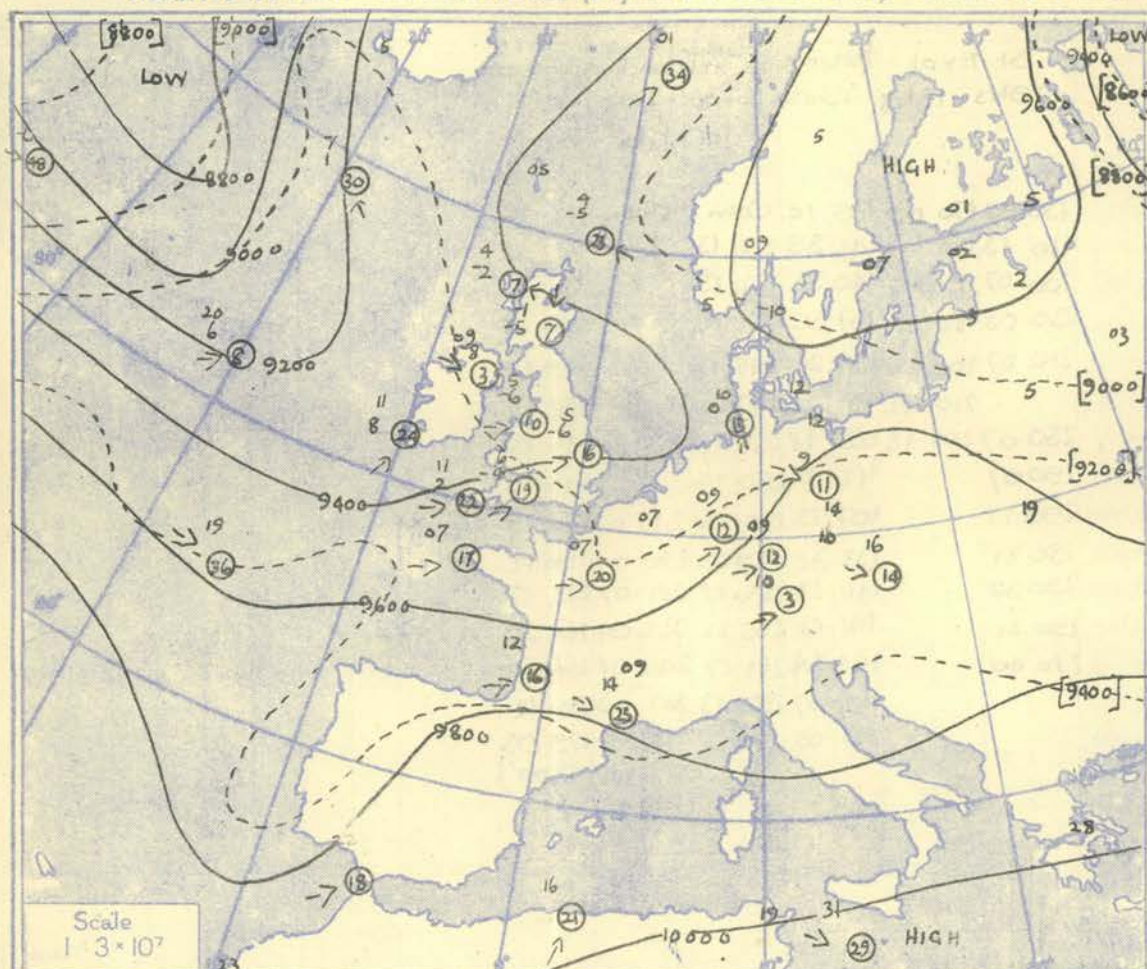
Place	St Eval	Lowick	Downham	Leuchars	Alderbrook	Place
Time	09hrs	15hrs	15hrs	16hrs	21hrs	Time
Type				Pilar	Pilar	Type
Feet	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Feet
Surf.	130 05	170 09	135 24	Calm	Calm	Surf.
1,000	180 13	170 08	142 35	228 13	228 13	1,000
2,000	200 07	120 14	140 33	232 13	232 13	2,000
3,000	230 08	180 19	137 30	238 12	238 12	3,000
4,000	210 07	200 12	134 24	245 12	245 12	4,000
5,000		210 12	132 21	247 11	247 11	5,000
6,000	250 07	210 15	123 18	251 13	251 13	6,000
8,000	290 07		112 22	250 14	250 14	8,000
10,000	290 21		107 23	238 16	216 03	10,000
14,000	250 21		132 32	253 13	190 04	14,000
18,000	290 30		141 27	246 18	281 07	18,000
24,000	290 21		141 41	265 22	332 04	24,000
30,000	270 40		144 34	281 27	248 08	30,000
40,000			163 07	257 13	317 09	40,000
50,000			277 05		282 04	50,000
					282 05 (4000')	

NEPHOSCOPE OBSERVATIONS

Place	Time Type	Dir. Vel.	Place	Time Type	Dir. Vel.

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

Ship	Weather Recorder	Weather Recorder	Weather Recorder	Weather Recorder	Weather Explorer	Weather Explorer	Weather Explorer	Weather Explorer	Ship
Lat/Long	59-1N 19-1W	59-1N 19-3W	59-1N 19-3W	59-0N 18-9W	62-3N 20-3W	52-3N 20-3W	52-5N 21-0W	52-6N 21-0W	Lat/Long
Time	03h	09h	15h	21h	03h	09h	15h	21h	Time
M.S.L.	1008	1004	1000	995	997	995	994	995	M.S.L.
Surf	1008	1004	1000	995	997	995	994	995	Surf
Freezing	910	918	905		816	847	810		Freezing
Pressure	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Pressure
mb	ft./100	°F.	°F.	Dir. Vel.	ft./100	°F.	°F.	Dir. Vel.	mb
Surf	2.2	42 35	080 10	09	43 41	120 17	01	43 41	120 20
1000	35 29	095 13	37 35	116 19	37 34	138 22	26 8	31 26	132 30
950	30.1	30 24	103 14	28 9	30 29	119 19	28 1	31 27	131 28
900	24 17	138 15	23 22	129 20	25 21	135 30	25 17	133 30	27 4
850	60.6	19 11	130 12	59 3	19 15	136 19	58 6	19 15	137 29
800									
750	12 03	141 09	13 08	138 18	13 09	135 33	14 07	137 26	23 10
700	94.3	10 14	131 14	93 0	08 02	133 18	92 3	07 01	136 30
650	03 14	115 06	03 06	129 12	04 18	145 16	03 20	141 21	129 11
600	132 04	16 Calm	131 03	11 130 09	130 04	161 16	129 05	130 148	11 132
550	13 24	275 12	12 20	127 07	12 38	177 18	14 34	144 09	03 32
500	176 20	31 175 19	29 105 09	174 19	53 153 24	172 21	47 144 15	176 13	49 005
450	28 41	307 17	28 37	073 09	28 56	123 17	33 60	153 18	20 60
400	39 54	Elevation	226 40	49 053 09	226 38	102 16	223 46	228 31	58 324
350	51	above 70°	51 025 03	174 19	53 153 24	172 21	47 144 15	176 13	49 005
300	290 64		288 65	183 12	288 65	180 11		292 59	308 27
250	70	307 17	74	210 11				41	317 40
200	375 56	364 14	273 73	373 58	222 12			379 54	316 28
170	53	354 12	56	253 18				54	300 28
150	54	285 16	56	260 12				58	291 30
130	132 54							57	298 30
110								61	323 30
100								59	323 15
90								61	323 08
80									
70									
60									
Isobaric	731-700mb	10°	Isobaric	700-685mb	8°	Inversion	700mb 7°	680mb 8°	545-525mb -15°
Tropopause	261mb-75° 31,900'	N.R.	260mb-77° 31,900'	N.R.	289mb-63° 30,000'	269mb-75° 31,300'	274mb-59° 31,100'	250mb-64° 32,900'	Tropopause

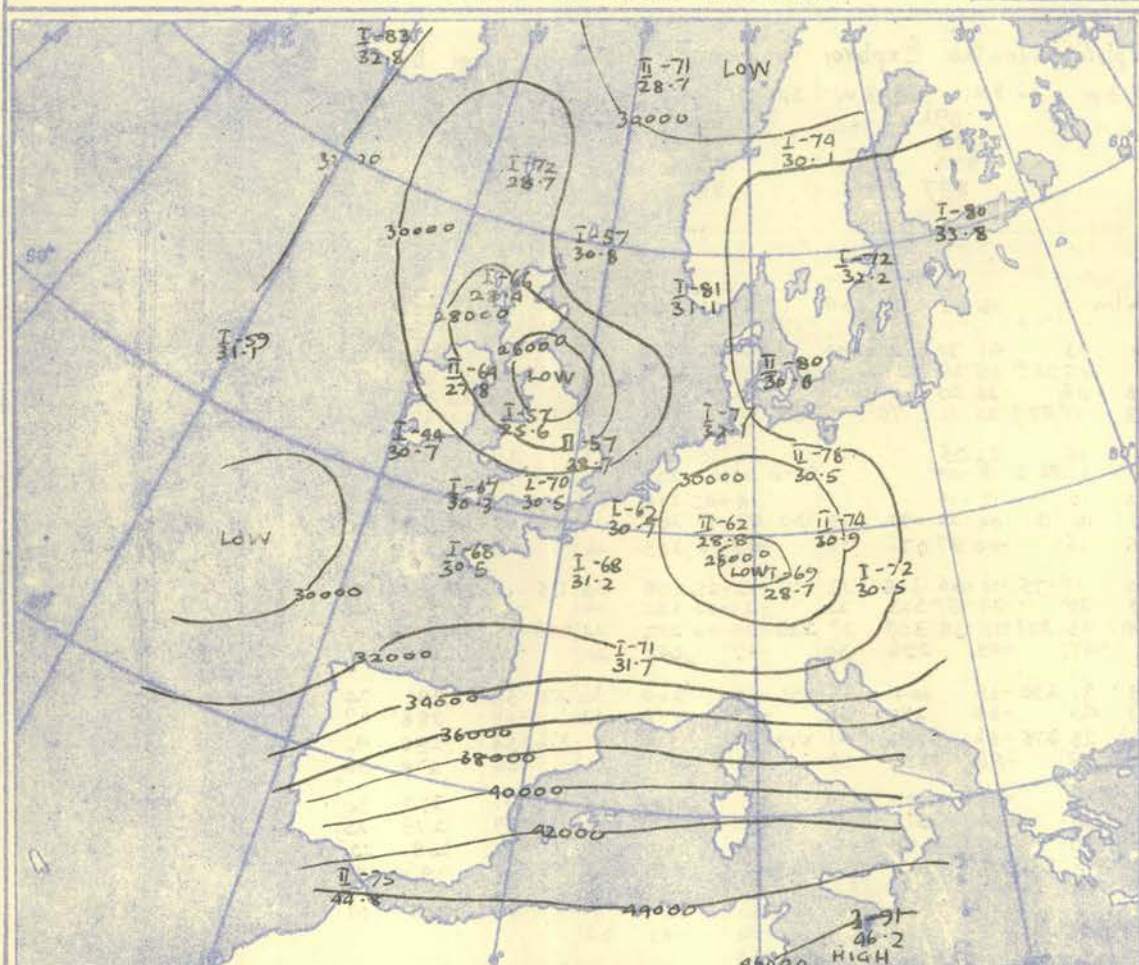


The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient-Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

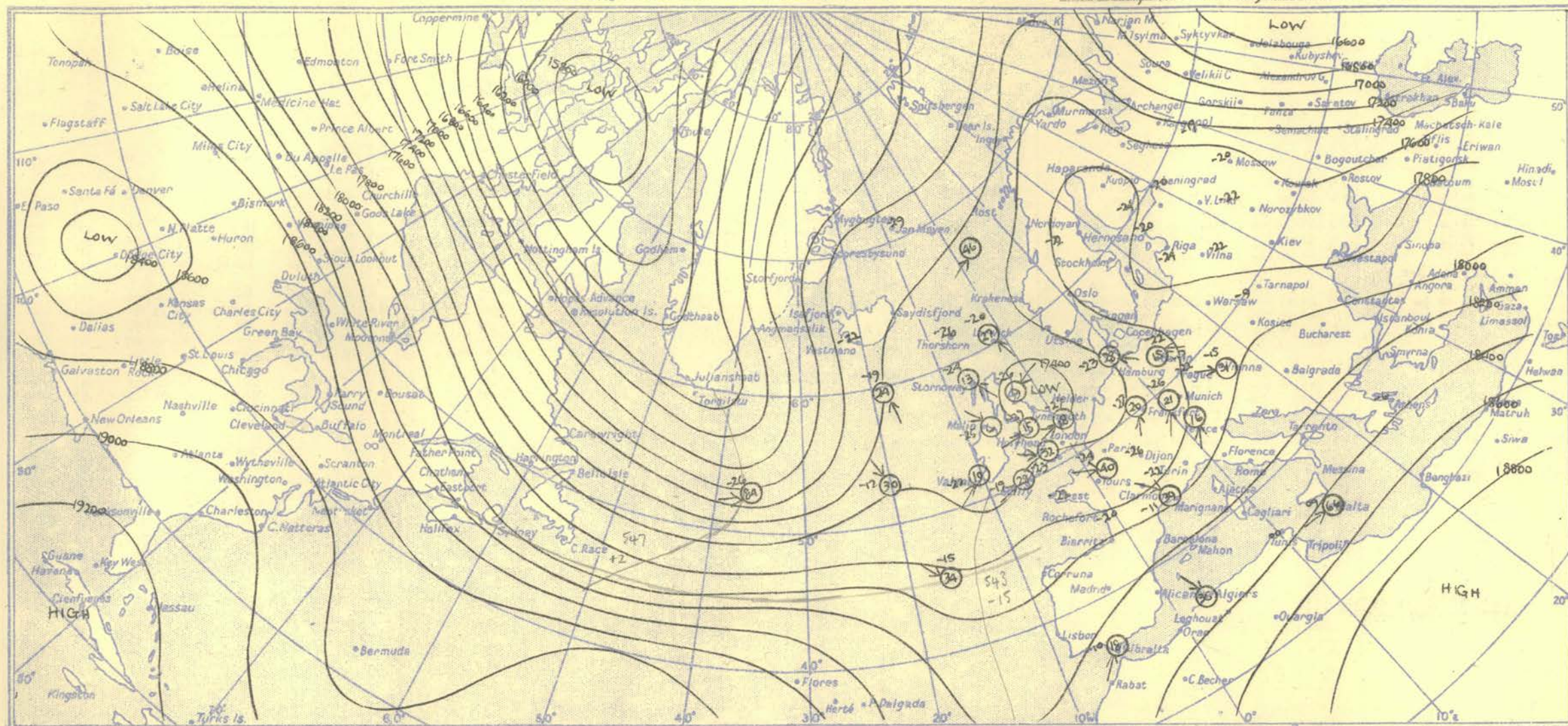
TROPOPAUSE CHART at about 15h. G.M.T.



Contour lines of Height of Tropopause.
Temperature of Tropopause.

NOTES ON THE AEROLOGICAL SITUATION.

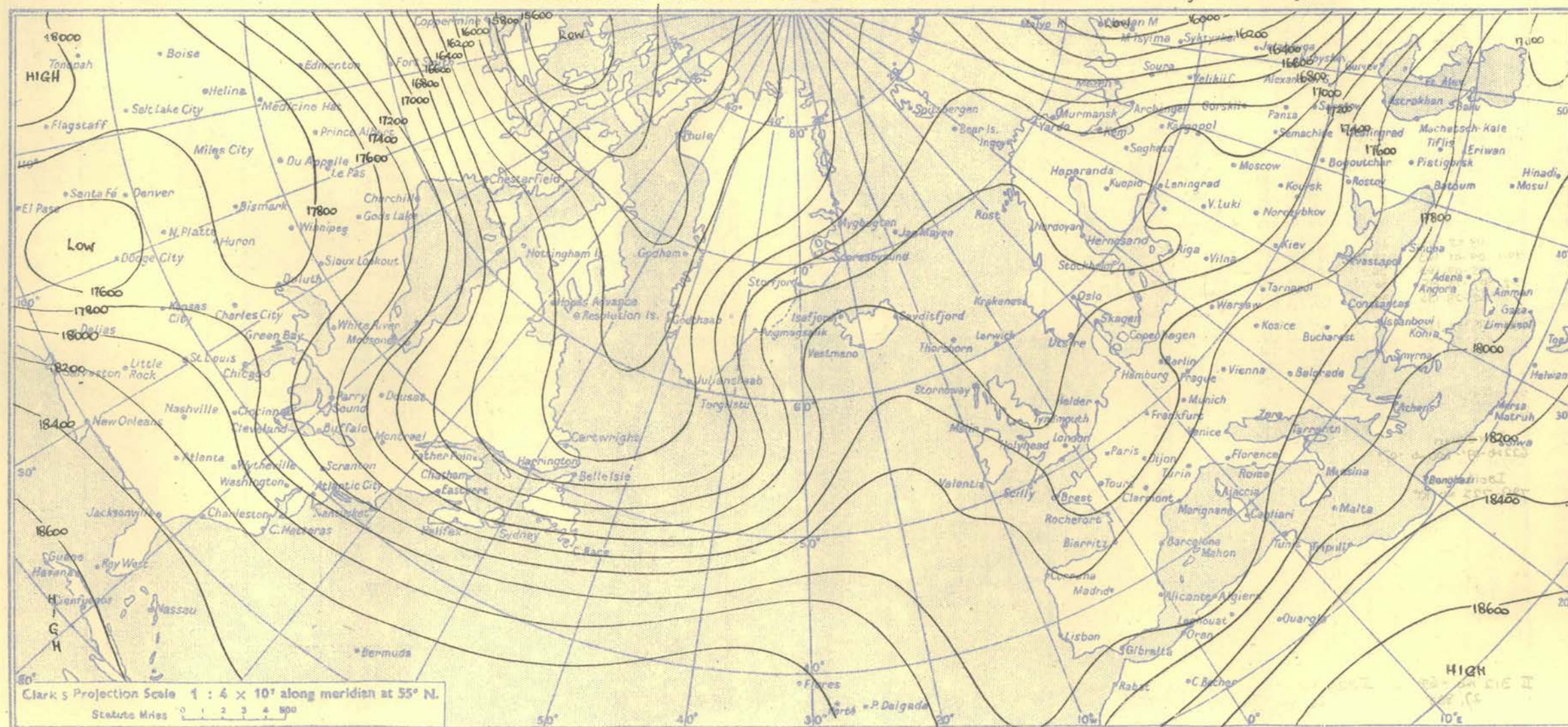
Cold trough over Britain moved very slowly eastwards. Cooling by advection southwestwards across Atlantic from Davis Straits caused formation of pronounced cold trough.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T.

Thursday 15th February,

1951.



Clark's Projection Scale 1 : 4 x 10⁶ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION							
Pressure mb	Time M.S.L.	15h.		G.M.T.	mb	15h.		G.M.T.	mb	15h.		G.M.T.	mb	15h.		G.M.T.	mb	15h.		G.M.T.	mb	15h.		G.M.T.	mb	15h.		G.M.T.	mb	15h.		G.M.T.	mb	Time M.S.L.	Pressure mb										
		Surf	Freezing			Surf	Freezing			Surf	Freezing			Surf	Freezing			Surf	Freezing			Surf	Freezing			Surf	Freezing			Surf	Freezing					Surf	Freezing	Surf	Freezing	Surf	Freezing	Surf	Freezing	Surf	Freezing
		1015.3	1005.0			1009.8	1008.1			1008.8	1007.9			1007.8	998.4			1008.5	1006.4			1009.8	993.4			1009.5	993.3			1007.6	997.0			1000											
		1000				936				963				927			940				953				921			883			895														
Surf	02.7	33	31			00.4	40	34	140	03	00.2	39	37	110	02	02.6	39	33	170	10	00.6	40	36	170	04	01.2	39	35		04.4	43	33	230	07	02.9	47	38	180	10	00.3	45	40	140	18	Surf
1000	04.0	32	30			02.6	39	32		02.3	38	35		02	02.2	39	33	170	10	02.3	39	35	174	09	02.6	39	35		04.4	43	33	230	07	02.1	47	38	180	10	00.3	45	40	140	18	1000	
950	05.0	25	22			03.4	28	25	107	07	02.9	25	23	076	09	03.0	27	22	151	05	03.1	33	30	172	08	03.4	31	30		03.5	36	28	229	09	03.0	41	32	192	16	04.0	37	33	144	29	950
900	06.0	20	18			04.2	21	18	122	09	03.9	19	17	076	12	04.0	22	16	184	09	04.1	28	24	207	08	04.4	30	22		04.5	29	23	211	08	04.0	34	25	203	14	04.5	34	23	144	34	900
850	07.0	15	13			05.0	14	10	149	09	04.8	13	08	078	08	05.0	15	08	178	09	05.1	17	10	254	11	05.4	23	16		05.5	24	13	217	06	05.0	28	18	211	14	05.5	28	15	152	34	850
800	08.0	09	06			06.0	14	10	149	09	05.8	13	08	078	08	06.0	15	08	178	09	06.1	17	10	254	11	06.4	23	16		06.5	24	13	217	06	06.0	28	18	211	14	06.5	28	15	152	34	800
750	09.0	07	03	See Page 3 for Winds		07.0	11	06	128	08	06.8	10	01	079	06	07.0	13	00	198	06	07.1	15	05	254	10	07.4	23	16		07.5	24	13	217	06	07.0	28	18	211	14	07.5	28	15	152	34	750
700	10.0	04	05			08.0	04	02	081	07	07.8	03	01	086	06	08.0	13	00	198	06	08.1	15	05	254	10	08.4	23	16		08.5	24	13	217	06	08.0	28	18	211	14	08.5	28	15	152	34	700
650	11.0	02	08			09.0	03	09	086	09	08.8	02	02	029	05	09.0	13	00	198	06	09.1	15	05	254	10	09.4	23	16		09.5	24	13	217	06	09.0	28	18	211	14	09.5	28	15	152	34	650
600	12.0	00	13			10.0	01	15	108	13	10.0	01	15	108	13	10.0	13	00	198	06	10.1	15	05	254	10	10.4	23	16		10.5	24	13	217	06	10.0	28	18	211	14	10.5	28	15	152	34	600
550	13.0	00	15			11.0	01	15	124	11	11.0	01	15	124	11	11.0	13	00	198	06	11.1	15	05	254	10	11.4	23	16		11.5	24	13	217	06	11.0	28	18	211	14	11.5	28	15	152	34	550
500	14.0	00	15			12.0	01	15	140	11	12.0	01	15	140	11	12.0	13	00	198	06	12.1	15	05	254	10	12.4	23	16		12.5	24	13	217	06	12.0	28	18	211	14	12.5	28	15	152	34	500
450	15.0	00	15			13.0	01	15	156	11	13.0	01	15	156	11	13.0	13	00	198	06	13.1	15	05	254	10	13.4	23	16		13.5	24	13	217	06	13.0	28	18	211	14	13.5	28	15	152	34	450
400	16.0	00	15			14.0	01	15	172	11	14.0	01	15	172	11	14.0	13	00	198	06	14.1	15	05	254	10	14.4	23	16		14.5	24	13	217	06	14.0	28	18	211	14	14.5	28	15	152	34	400
350	17.0	00	15			15.0	01	15	188	11	15.0	01	15	188	11	15.0	13	00	198	06	15.1	15	05	254	10	15.4	23	16		15.5	24	13	217	06	15.0	28	18	211	14	15.5	28	15	152	34	350
300	18.0	00	15			16.0	01	15	204	11	16.0	01	15	204	11	16.0	13	00	198	06	16.1	15	05	254	10	16.4	23	16		16.5	24	13	217	06	16.0	28	18	211	14	16.5	28	15	152	34	300
250	19.0	00	15			17.0	01	15	220	11	17.0	01	15	220	11	17.0	13	00	198	06	17.1	15	05	254	10	17.4	23	16		17.5	24	13	217	06	17.0	28	18	211	14	17.5	28	15	152	34	250
200	20.0	00	15			18.0	01	15	236	11	18.0	01	15	236	11	18.0	13	00	198	06	18.1	15	05	254	10	18.4	23	16		18.5	24	13	217	06	18.0	28	18	211	14	18.5	28	15	152	34	200
170	21.0	00	15			19.0	01	15	252	11	19.0	01	15	252	11	19.0	13	00	198																										

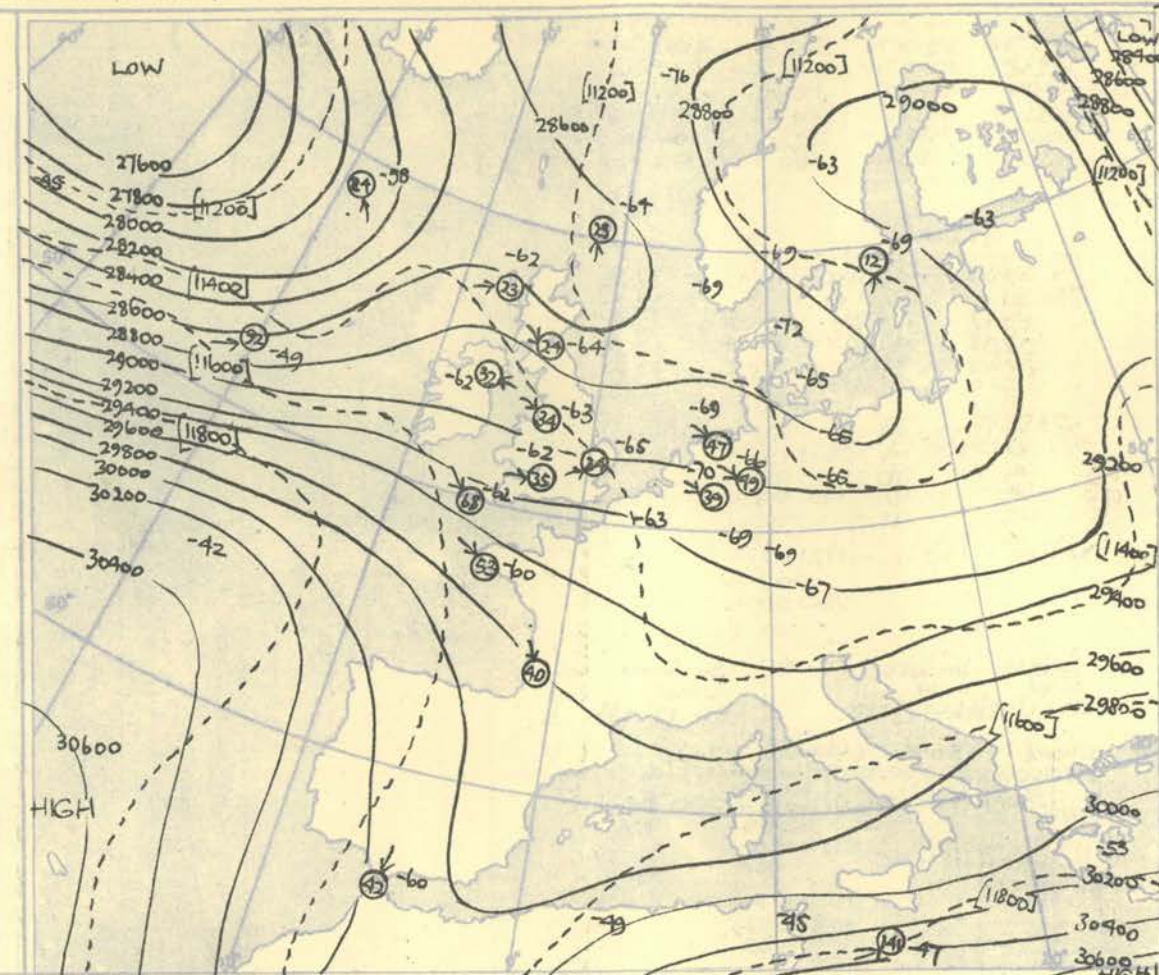
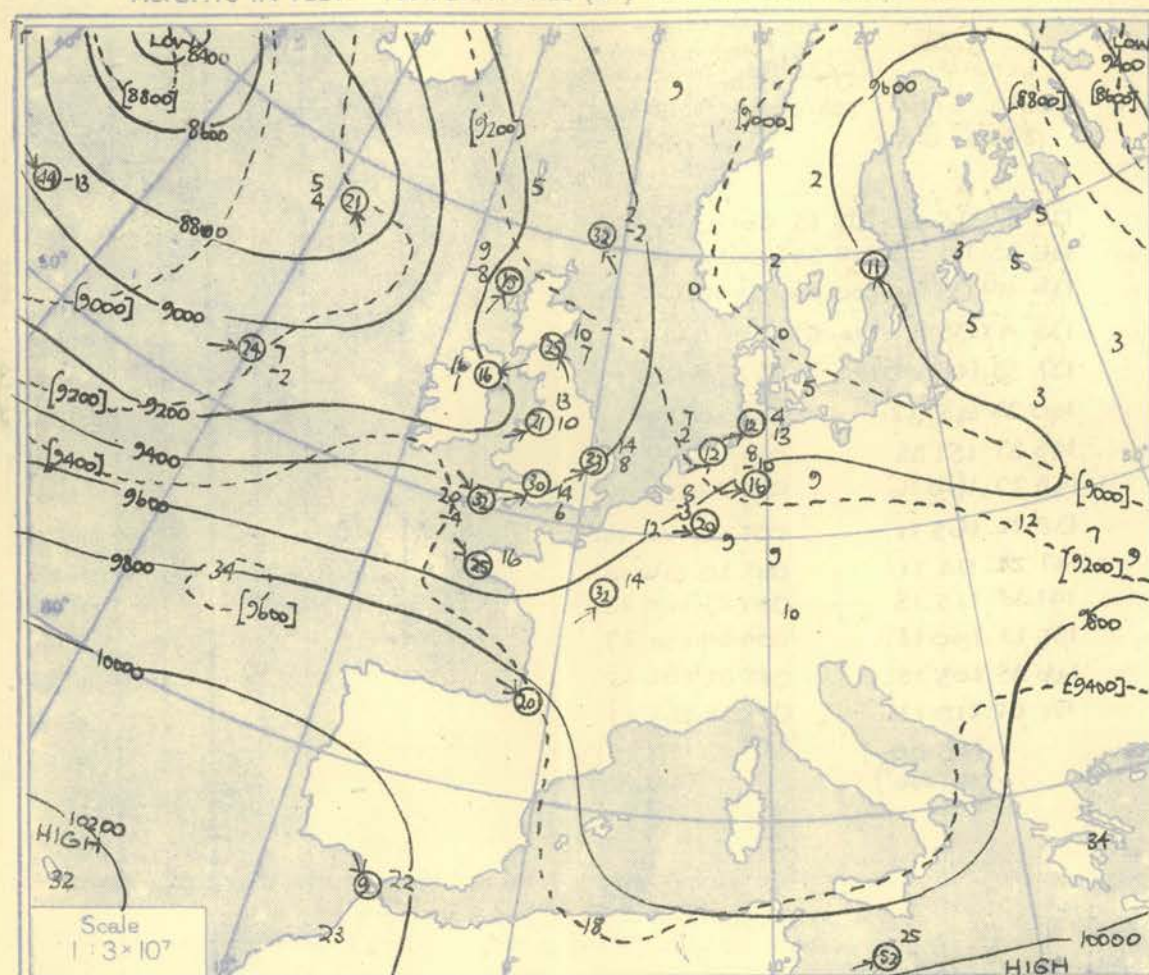
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)																																												
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION						
Pressure	Time M.S.L.	Surf	Freezing	G.M.T.	03L		G.M.T.		mb	03L		G.M.T.		mb	03L		G.M.T.		mb	03L		G.M.T.		mb	03L		G.M.T.		mb	03L		G.M.T.		mb	Time M.S.L.	Surf	Freezing							
					1010.6	1000.3	980	962		1005.7	982	962	950		1007.2	1006.3	970	1002.0		993.1	914	1005.3	1003.2		912	1010.0	1006.8	990.4		900	999.5	988.3	850					995.2	994	865				
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb							
Surf	2.7	35	35		0.4	36	31	125	05	0.2	31	30	Calm	2.6	36	34	120	12	0.6	34	32	140	12	1.2	33	32	125	06	4.4	41	41	170	10	2.9	45	45	180	20	0.3	43	41	180	06	Surf
1000	2.7	35	33		1.3	36	30			1.9	32	31		0.8	36	32	126	27	1.4	34	30	147	27	2.6	33	33	164	15	1.8	41	41	170	10	2.9	45	45	180	20	0.3	43	41	180	06	1000
950		28	28			30	26	155	08		30	27	176	10		36	32	126	27		34	30	147	27		33	33	164	15		38	37	174	25		42	41				950			
900	30.2	23	23		28.9	23	20	147	07	29.5	24	19	182	11	28.7	30	26	136	27	29.2	31	26	155	27	30.4	29	26	182	17	29.9	32	31	179	29	28.2	39	38				900			
850		19	18			17	14	146	08		17	16	187	12		25	18	145	19		27	22	165	25		25	13	211	19		27	26	187	30		32	32				850			
800	60.2	15	13		58.9	13	05	148	10	59.5	15	10	200	15	59.3	20	08	156	16	59.8	23	15	183	24	61.0	20	03	228	18	60.4	23	21	203	30	59.1	28	27				800			
750		08	04			07	01	165	11		09	01	204	14		13	02	165	15		15	04	193	20		14	04	235	16		17	15	212	33		21	20				750			
700	93.6	02	01	For	92.1	01	04	167	08	92.9	02	06	207	14	93.0	07	01	173	15	93.6	08	03	199	18	94.7	07	15	250	15	94.4	10	05	218	35	93.4	15	14				700			
650		06	10			05	11	158	07		05	14	218	14		00	05	200	15		00	07	225	18		01	18	263	15		03	02	218	28		09	07				650			
600	131	15	20	Winds	129	11	18	174	08	130	12	22	236	12	131	06	11	238	21	132	04	10	243	24	131	09	20	272	14	132	05	10	219	29	132	01	01				600			
550		21	28			19	24	175	09		20	31	238	13		14	18	238	26		11	17	250	33		13	21	279	33		13	18	228	26		08	11				550			
500		30	38	See	172	29	34	158	03	173	29	40	237	14	174	24	29	234	24	175	20	27	249	34	176	23	30	281	40	176	22	28	247	34	176	18	21				500			
450		40	48	Page		39	48																																	450				
400	222	51		3.	222	50		232	12	223	53		261	21	224	48		228	21	226	46		249	33	226	45		279	38	227	44		254	46	227	39	44				400			
350		63				61		263	11		64		271	22		61		238	20		57		257	34		56		277	39		56		204	48		54				350				
300	283	62			284	63		239	13	284	63		264	14	286	68		243	24	288	65		258	37	288	67		282	44	288	67		276	51	289	69					300			
250		60				57		206	06		57		264	09		64		255	20		64		268	27		68		279	32		74		273	29		79				250				
200	501	54			371	53		242	09	371	56		278	08	371	58		274	14	374	55		272	16	374	59		270	18	373	63		265	20	373	66					200			
170		53				55		214	03		58		266	09		59		267	15		57		285	6		58		290	20		61		281	18		66				170				
150		54				56		223	13		62		287	08		61		302	10		57		292	14		59		290	12		62		289	18		68				150				
130		59				60		231	11		62		320	05		62		371	11		57		280	15								281	17		68				130					
110		59				61		285	05						63		270	09		61		296	05									279	12		68				110					
90	521	60			519	61		233	04					519	64		296	08		62		300	05									519	66		68				90					
80						60																																	80					
70						60																																	70					
60						60																																	60					
Inversion		589 mb -18° -580 mb -17°		Isothermal		840-830 mb 16°		Inversion		1006 mb 31° -990 mb 34°		Isothermal		840-808 mb 16°		Inversion		993 mb 36° -974 mb 37°		Isothermal		1003-950 mb 34°		Inversion		1015 mb 33° -978 mb 34°		(b5 mb)								Isothermal		321-307 mb -56°						
Tropopause		I 329 mb -65° 26.000		I 335 mb -65° 26.000		I 345 mb -65° 25.500		I 295 mb -69° 28.500		I 265 mb -71° 31.400		I 279 mb -69° 30.300		I 265 mb -77° 31.400		I 258 mb -82° 32.000		I 270 mb -66° 31.200		Tropopause																								
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION										
Pressure	Time M.S.L.	Surf	Freezing	G.M.T.	09L		G.M.T.		mb	09L		G.M.T.		mb	09L		G.M.T.		mb	09L		G.M.T.		mb	09L		G.M.T.		mb	09L		G.M.T.		mb	Time M.S.L.	Surf	Freezing							
					1008.4	998.2	954	1002.3		1000.6	950	1005.9	1005.0		961	998.3	988.6	921		998.9	996.8	895	1006.3		1001.7	885	1001.2	985.1		878	1000.0	989.3	874											
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb							
Surf	2.7	38	36	140	29	0.4	37	26		0.2	34	33	180	10	2.6	38	37			0.6	38	36	140	20	1.2	39	38	135	12	4.4	43	43	220	27	2.9	43	42	203	08	Surf				
1000	2.2					0.6	37	26		1.8					0.5					0.3			140	20	1.6						0.3				0.0				1000					
950		31	28	140	39		32	20			31	29	160	21		35	34	117	21		34	33	153	38		36	35	164	32		39	38	194	37		41	40	251	25	950				
900	29.8	25	24	145	41	28.2	25	16		25.9	28	26	154	25	27.4	30	26	122	23	27.6	32	31	164	41	29.5	33	32	177	34	28.5	34	33	202	45	28.2	35	32	246	24	900				
850		19	18	149	41		21	09			24	20	155	24		27	22	136	23		30	29	158	37		28	27	150	34		30	28	213	46		30	25	267	27	850				
800	59.9	14	10	151	36	58.4	18	02		60.0	17	12	158	22	58.1	23	19	155	18	58.4	27	26	215	29	60.2	23	21	180	34	59.3	26	23	224	41	59.1	25	20	261	29	800				
750		08	04	151	34		12	03			12	09	167	21		18	12	177	20		21	19	227	22		20	18	193	36		21	18	229	36		18	14	259	32	750				
700	93.2	01	04	149	34	92.0	06	13		93.5	08	06	188	17	92.0	13	06	187	10	92.6	15	13	220	20	94.3	13	09	201	36	93.5	15	11	228	35	93.0	13	03	255	34	700				
650		09	12	168	32		00	27			01	02	211	15		05	03	192	10		09	05	213	21		08	03	203	32		08	02	220	35		05	13	253	31	650				
600	130	13	17	160	32	130	07	36		132	05	11	222	18	130	03	10	209	14	131	01	04	206	21	133	01	05	207	34	132	00	07	218	36	131	00	25	252	31	600				
550		19	29	157	34		15	38			10	16	235	21		11																												

[illegible]

DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

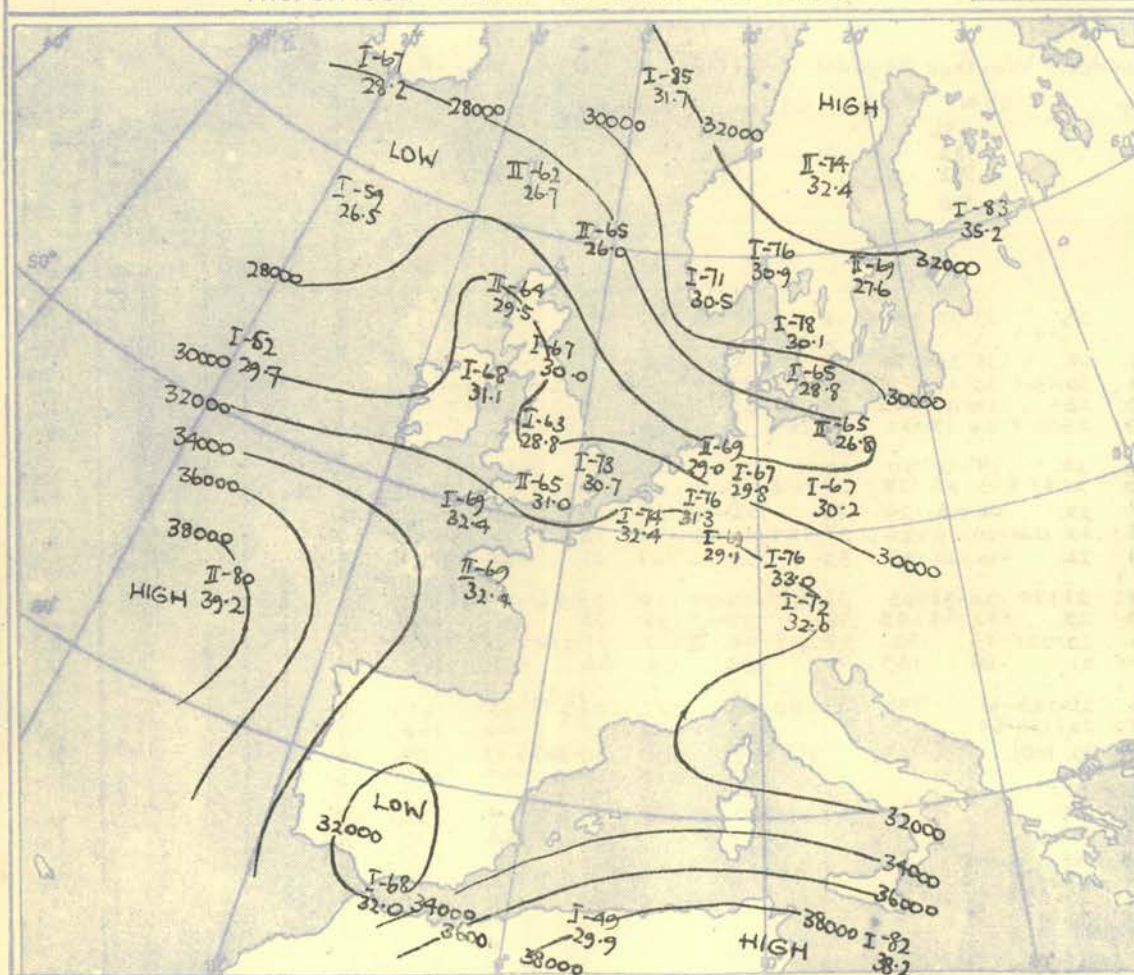
Ship	Weather Explorer				Weather Explorer				Weather Explorer				Weather Recorder				Weather Recorder				Weather Recorder				Weather Recorder				Ship												
Lat/Long	52.5N 19.9W				52.5N 19.8W				52.3N 19.8W				52.5N 20.0W				59.1N 19W				59N 18.8W				59.1N 18.8W				59.3N 18.9W				Lat/Long								
Pressure	Time	03h			G.M.T.	09h	09h			G.M.T.	15h	15h			G.M.T.	03h	03h			G.M.T.	09h	09h			G.M.T.	15h	15h			G.M.T.	21h	21h			G.M.T.	Time					
	M.S.L.	996			mb	995	995			mb	994	994			mb	993	993			mb	989	989			mb	982	982			mb	980	980			mb	M.S.L.					
	Surf	996			mb	995	995			mb	994	994			mb	993	993			mb	989	989			mb	982	982			mb	980	980			mb	Surf					
	Freezing	890			mb	920				mb					mb		900			mb					mb					mb					mb	Freezing					
Pressure	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Pressure								
mb	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	mb								
Surf	-1.1	44	32	250	18	41	33	260	12	-1.6	43	22	300	26	-1.8	39	30	300	20	-2.9	43	42	130	23	-9.9	39	39	180	18	-5.3	39	36	170	18	Surf						
1000		40	23	268	28	41.2	36	30	270	17	26.3	37	16	304	28	34	27	287	33	38	37	127	28	36	35	174	24	35	34	189	22	35	36	170	21	1000					
950	27.1	33	20	264	28	26.7	27	25	266	17	26.3	30	14	306	30	26.0	26	20	279	32	25.2	32	20	134	30	23.1	30	27	158	27	22.6	29	27	191	18	950					
900		26	13	253	27		25	21	239	20		23	10	308	36		19	12	278	36		26	23	140	26		28	24	142	42		25	25	190	19	900					
850		24	06	255	28	57.1	20	17	227	28	56.6	17	-01	304	34	56.1	12	03	279	36	55.8	20	16	139	25	53.7	24	19	132	43	53.1	19	19	170	19	850					
800	57.7	24	06	255	28	57.1	20	17	227	28	56.6	17	-01	304	34	56.1	12	03	279	36	55.8	20	16	139	25	53.7	24	19	132	43	53.1	19	19	170	19	800					
750		21	-07	266	31		15	11	223	32		11	00	291	24		05	-09	280	36		13	03	138	22		19	12	130	40		12	12	162	22	750					
700	92.0	16	-10	278	39	90.9	11	07	205	40	90.2	07	-02	254	24	89.2	-03	-31	276	34	89.5	08	-09	140	21	87.8	13	07	128	39	86.8	05	04	167	21	85.8	03	-10	171	30	700
650		08	-14	274	40		07	03	207	38		02	-07	237	36		-11	-25	269	33		06	-21	147	22		06	-02	128	36		-03	-08	158	22	-05	-16	172	25	650	
600	131	01	-18	266	50	129	00	-04	222	51	128	-06	-16	238	39	126	-17	-36	263	39	128	-03	-20	158	22	126	-01	-10	126	37	124	-11	-15	171	18	123	-13	-25	165	26	600
550		-06	-24	264	55		09	-13	230	55		-09	-32	234	46		-28	-46	248	48		-13	-25	174	22		-10	-20	132	32		-20	-24	167	21		-22	-37	150	25	550
500	175	-12	-42	265	58	173	-18	-23	230	66	172	-16	-43	232	60	168	-38	-52	252	59	171	-23	-30	168	21	170	-20	-31	135	36	167	-25	-38	148	33	166	-31	-46	147	22	500
450		-24	-57	267	64		-24	-32	236	81		-24	-57	247	76		-35	-55	255	92		-34	-42	164	23		-32	-44	143	38		-33	-47	156	30		-41	148	28	450	
400	227	-34	-57	266	65	225	-34	-44	239	78	223	-36	-59	262	88	219	-36	-59	254	126	222	-44		160	22	221	-45		152	39	218	-44		157	31	216	-46		143	29	400
350		-46		266	63		-45		256	97		-46		269	95		-45		250					154	21		-58		149	40		-53		168	26		-51		163	34	350
300	290	-69		266	74	288	-55		269	119	287	-99		253	92	282	-46		255	92	283	-68		155	21	283	-61		148	35	280	-58		157	24	278	-52		164	34	300
250		-56		266	73		-62		276	111		-50		247	97		-47		257	77		-61		187	22	256	-64				-54		157	29		-44		160	30	250	
200	377	-57		266	51	375	-55		281	51	376	-50		253	67	371	-50		251	60	370	-52		209	30	mb				368	-52		201	30	367	-47		184	30	200	
170		-55		266	37		-53		251	45		-50		255	60		-53		255	47		-54		201	29						-49		219	28		-47		216	36	170	
150		-53		266	37		-55		251	48		-50		255	56		-55		255	45		-53		208	24						-50								150		
130		-57		266	30		-60		251	43		-54		254	36		-62		258	39		-56		223	21													130			
110		-59		266	28		-58		251	32		-54		255	35							-57		206	16													110			
100	526	-60		266	23	524	-58		251	26	527	-56		255	33							-57		189	17													100			
90	(094 mb)	-61					-59		251	29		-57		256	31							-57		191	16													90			
80							-62		251	30		-58		255	26							-57		223	18													80			
70							-63		251	16												-57															70				
60																																						60			
	Inversion	560mb -7°-532mb -5°																																							
	isothermal	996-980mb 44°																																							



Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

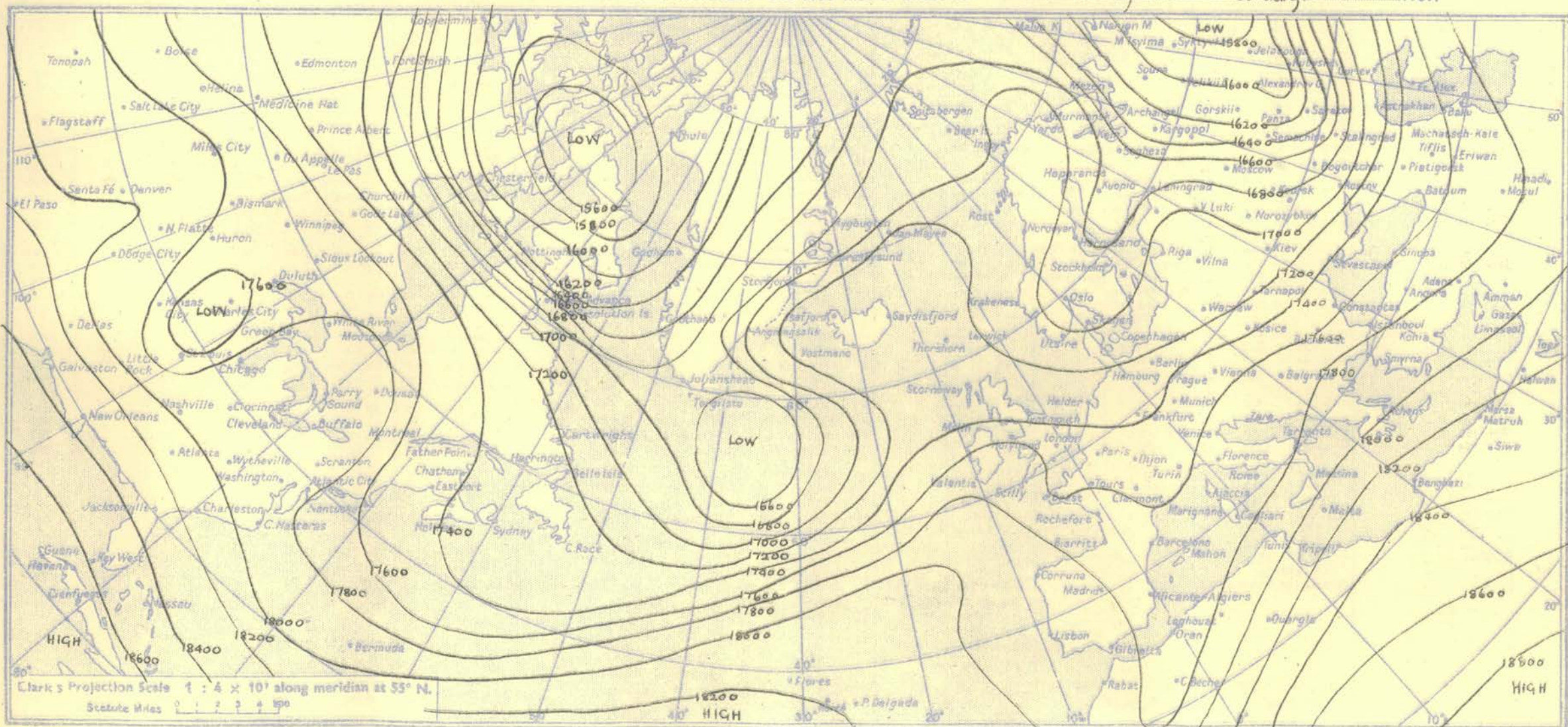
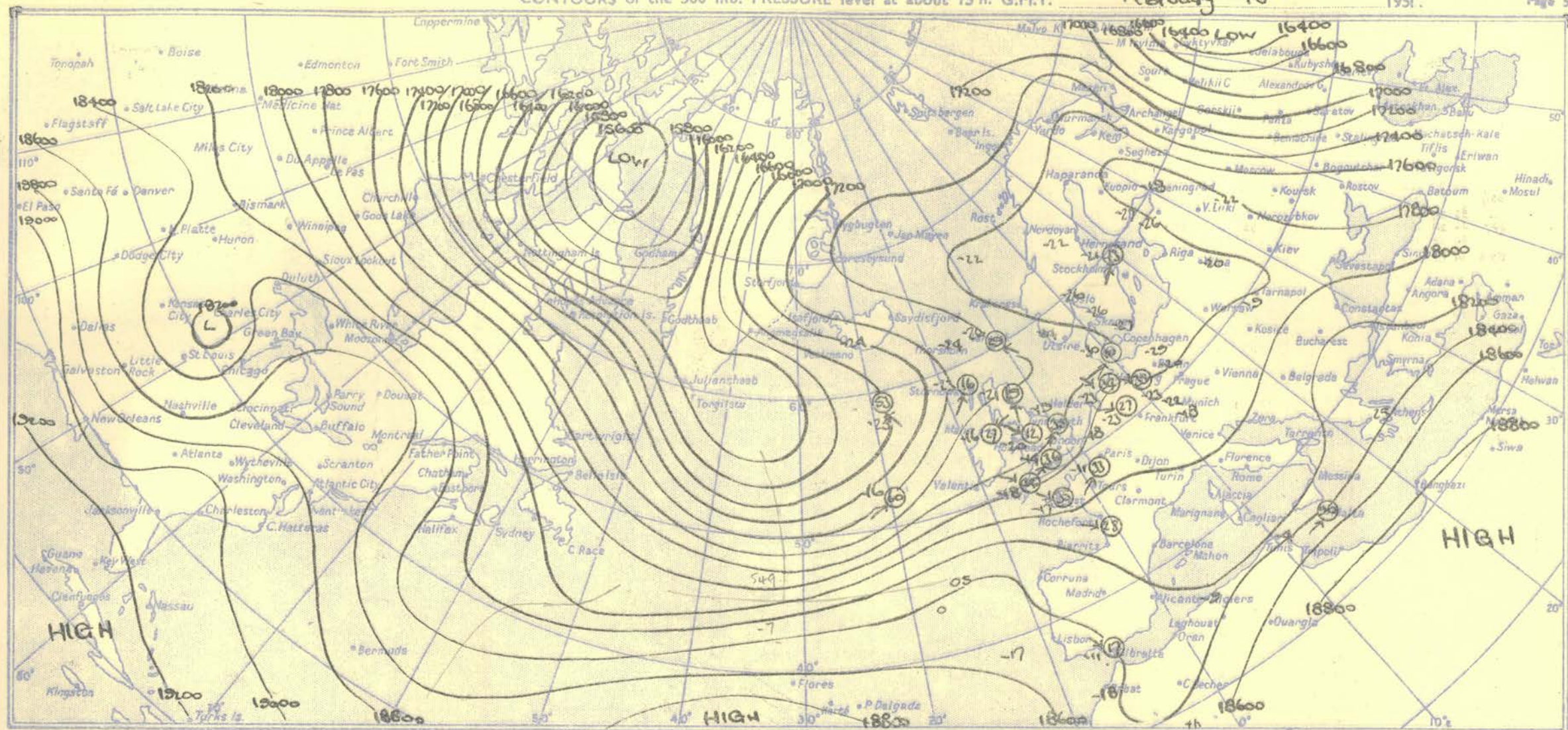
100 80 60 40 20 10 0 knots.

TROPOPAUSE CHART at about 15h. G.M.T.



NOTES ON THE AEROLOGICAL SITUATION.

Warming continued over the United Kingdom and to the North, the cold trough over West Europe moving eastwards. Advection of cold air behind the Atlantic depression led to the formation of a cold pool to the South of Greenland.



RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																																																																																																																																																																																										
Pressure (Time M.S.L. Surf Freezing)	15h. G.M.T. 1008.0 mb 997.8 mb 950 mb				15h. G.M.T. 1000.0 mb 998.3 mb 922 mb				15h. G.M.T. 1001.9 mb 1001.0 mb 921 mb				15h. G.M.T. 996.6 mb 987.3 mb 912 mb				15h. G.M.T. 997.4 mb 995.4 mb 876 mb				15h. G.M.T. 1001.7 mb 997.2 mb 858 mb				15h. G.M.T. 1001.3 mb 985.3 mb 850 mb				15h. G.M.T. 1002.2 mb 991.7 mb 846 mb				15h. G.M.T. mb mb mb				Time M.S.L. Surf Freezing																																																																																																																																																																																																																																																										
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb																																																																																																																																																																																																																																																														
Surf 1000	02.7	38	37	150	25	00.4	41	32	120	08	00.2	41	38	120	18	02.6	40	38		00.6	46	43	220	07	01.2	44	42	155	25	04.4	46	43	250	09	02.9	51	46	247	10	Surf 1000																																																																																																																																																																																																																																																							
950	02.1	32	29	147	36	00.0	34	25	125	15	00.4	35	34	121	30	00.8	36	23		00.7	41	39	223	14	00.5	40	38	193	37	00.4	44	39	247	25	00.6	45	39	247	25	950																																																																																																																																																																																																																																																							
900	29.7	26	24	159	32	27.9	30	20	132	15	28.3	30	29	129	31	27.1	31	28		27.5	25	34	233	15	28.6	36	34	220	35	28.7	38	32	249	31	29.0	37	30	256	24	900																																																																																																																																																																																																																																																							
850		20	18	157	31		25	17	169	15		24	23	137	31		28	24			30	29	243	17		31	28	221	34		32	27	250	31		33	26	260	26	850																																																																																																																																																																																																																																																							
800	69.8	14	12	155	32	58.5	20	09	181	19	58.8	20	19	142	29	57.9	26	19		58.4	25	24	246	20	59.5	26	22	231	30	59.7	27	21	249	28	60.0	28	22	261	30	800																																																																																																																																																																																																																																																							
750		09	03	156	33		15	03	178	17		15	13	141	26		21	10	See Page 3 for Winds		17	16	250	18		20	16	230	29		21	13	248	28		23	13	265	31	750																																																																																																																																																																																																																																																							
700	93.1	02	02	160	32	92.3	09	08	181	15	92.6	10	07	153	25	92.2	16	01		92.5	13	10	253	21	93.6	14	08	232	33	93.9	14	06	251	30	94.4	20	04	279	32	700																																																																																																																																																																																																																																																							
650		04	10	165	26		01	22	186	14		03	00	159	22		11	10			07	01	256	18		06	01	234	33		07	00	266	32		12	05	278	33	650																																																																																																																																																																																																																																																							
600	13.1	11	18	158	22	13.0	04	28	192	15	13.1	03	07	151	17	13.1	03	20		13.1	02	07	268	14	13.2	00	04	217	30	13.2	03	13	275	38	13.3	03	08	276	36	600																																																																																																																																																																																																																																																							
550		18	25	155	25		13	28	204	16		11	18	161	17		06	29			11	17	283	14		09	14	212	32		04	28	266	40		07	16	276	38	550																																																																																																																																																																																																																																																							
500	17.3	26	39	166	29	17.4	23	36	208	16	17.4	21	28	184	19	17.5	16	36		17.4	20	28	284	12	17.6	19	27	214	35	17.7	14	39	255	36	17.7	18	27	285	44	500																																																																																																																																																																																																																																																							
450		37	52	166	23		33	47	238	15		33	40	204	16		26	46			29	38	287	15		26	36	217	36		25	51	249	35		26	46	297	51	450																																																																																																																																																																																																																																																							
400	22.4	50		163	20	22.4	42		271	14	22.5	44		225	14	22.6	37	59		22.6	37	48	294	24	22.7	38	47	216	36	22.8	36	60	256	35	22.9	36	57	295	51	400																																																																																																																																																																																																																																																							
350		61		165	19		52		259	22		55		258	17		48				50		293	25		51		238	36		49		259	32		48		295	51	350																																																																																																																																																																																																																																																							
300	28.5	64		179	23	28.7	62		260	25	28.7	64		286	24	29.0	62			28.8	63		280	34	29.0	65		244	34	29.1	62		270	35	29.2	62		213	68	300																																																																																																																																																																																																																																																							
250		62		177	10		57		249	17		60		256	21		64				64		277	36		68		270	29		63		282	36		68		296	55	250																																																																																																																																																																																																																																																							
200	37.1	55		209	11	37.4	51		229	18	37.3	57		260	19	37.5	57			37.5	57		276	22	37.5	57		271	29	37.7	59		288	30	37.7	64		284	34	200																																																																																																																																																																																																																																																							
170		55		230	07		49		225	18		55		268	14		53				57		276	23		57		282	21		57		282	28		59		294	33	170																																																																																																																																																																																																																																																							
150		55		227	08	43.7	50		245	16	43.5	54		265	12	43.8	55			58		282	25	43.7	57		283		18	43.9	58		295	24		61		296	28	150																																																																																																																																																																																																																																																							
130		59		226	10		52		253	15		56		255	16		57			60		287	20		58		281	18		60		294	22		62		288	27	130																																																																																																																																																																																																																																																								
110		59		243	09		54		238	10		59		280	15		59			58		291	18		59		286	15		60		297	12		64		295	23	110																																																																																																																																																																																																																																																								
100	52.0	59		238	09	52.4	54		248	11	52.2	58		283	11	52.5	59			59		292	16	52.4	58		59		19	52.5	60		299	12	52.4	67		306	15	100																																																																																																																																																																																																																																																							
90		58		230	05		54		248	10		57		278	05		60			60		287	13		61		310	10		62		312	10		64		287	14	90																																																																																																																																																																																																																																																								
80		56				63.5	50		150	03		56		232	04		58			62		293	10		60							312			63		284	09	80																																																																																																																																																																																																																																																								
70																63.4	57					299	05		59														70																																																																																																																																																																																																																																																								
60																						298	03		56														60																																																																																																																																																																																																																																																								
Isothermal 610 - 600 mb -04° 289 - 276 " -64°																																Isothermal 850 - 830 mb 28° 450 - 440 " -26°																																Inversion 300 mb 63° - 283 mb 64°																																Isothermal 938 - 917 mb 38°																																Inversion 617 mb 03° - 605 mb 04°																																Isothermal 728 - 700 mb 20°																																																																																																																															
Tropopause II 337 mb - 65° 26,000'																																I 276 mb - 64° 29,500'																																I 281 mb - 67° 30,000'																																I 270 mb - 68° 31,100'																																I 300 mb - 63° 28,840' I 262 mb - 65° 31,800'																																I 274 mb - 73° 30,700'																																I 275 mb - 65° 31,000'																																I 268 mb - 69° 32,400'																																Tropopause																															
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																																																																																																																																																																																										
Pressure (Time M.S.L. Surf Freezing)	21h. G.M.T. 1005.2 mb 995.1 mb 953 mb				21h. G.M.T. 995.9 mb 994.2 mb 912 mb				21h. G.M.T. 996.5 mb 995.6 mb 918 mb				21h. G.M.T. 994.7 mb 985.4 mb 875 mb				21h. G.M.T. 999.1 mb 997.0 mb 874 mb				21h. G.M.T. 1002.3 mb 997.8 mb 865 mb				21h. G.M.T. 1003.5 mb 987.3 mb 860 mb				21h. G.M.T. 1003.9 mb 993.3 mb 842 mb				21h. G.M.T. mb mb mb				Time M.S.L. Surf Freezing																																																																																																																																																																																																																																																										
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb																																																																																																																																																																																																																																																										
Surf 1000	02.7	38	37		00.4	40	33	120	10	00.2	40	40	140	07	02.6	41	38		00.6	43	38	190	06	01.2	43	42	195	10	04.4	40	39	240	08	02.9	45	43	225	12	Surf 1000																																																																																																																																																																																																																																																								
950	01.4	31	31		01.2	36	29	134	25	51.0		35	34		01.3	40	37		50.3		39	35	218	13	00.9	42	39	237	25	00.9	42	41	244	21	01.1	44	41	226	30	950																																																																																																																																																																																																																																																							
900	29.0	27	27		26.8	31	27	135	24	26.9	30	30			26.8	36	33		27.9	33	30	254	19	29.1	36	32	256	25	29.2	37	36	251	24	29.4	39	37	240	30	900																																																																																																																																																																																																																																																								
850		21	21		25	21	136	25		26	26				30	27			29	26	256	20		30	25	252	24		31	30	252	25		34	28	253	30	850																																																																																																																																																																																																																																																									
800	59.2	16	16		57.4	20	16	134	23	57.5	23	23			57.7	25	22		58.8	29	24	252	21	59.9	22	21	247	22	60.1	25	24	252	26	60.4	27	19	253	30	800																																																																																																																																																																																																																																																								
750		09	09	See Page 3 for Winds		17	11	130	28		15	14	See Page 3 for Winds		21	13			22	12	249	22		21	13	248	23		22	16	255	28		25	11	248	30	750																																																																																																																																																																																																																																																									
700	32.6	02	08		91.3	11	05	136	27	91.4	13	05		91.9	16	08			93.1	18	03	244	24	94.0	15	02	263	25	94.4	20	04	263	28	95.0	19	14	249	33	700																																																																																																																																																																																																																																																								
650		06	20		05	00	158	25		07	12			09	09				12	10	246	27		09	04	276	27		11	02	263	27		14	08	251	36	650																																																																																																																																																																																																																																																									
600	13.0	12	32		13.0	02	14	179	22	13.0	01	22		13.1	03	11			13.2	03	14	253	27	13.3	01	12	280	28	13.3	02	11	268	30	13.4	07	01	259	37	600																																																																																																																																																																																																																																																								
550		16	33		11	29	203	18		10	30			10	16				13.2	04	25	279	29		09	25	286	33		03	25	287	37		01	12	255	46	550																																																																																																																																																																																																																																																								
500	17.3	26	36		7.3	21	33	206	16	17.3	2																																																																																																																																																																																																																																																																																				

17th February

MEDICAL LIBRARY

2 VALENTIA

034

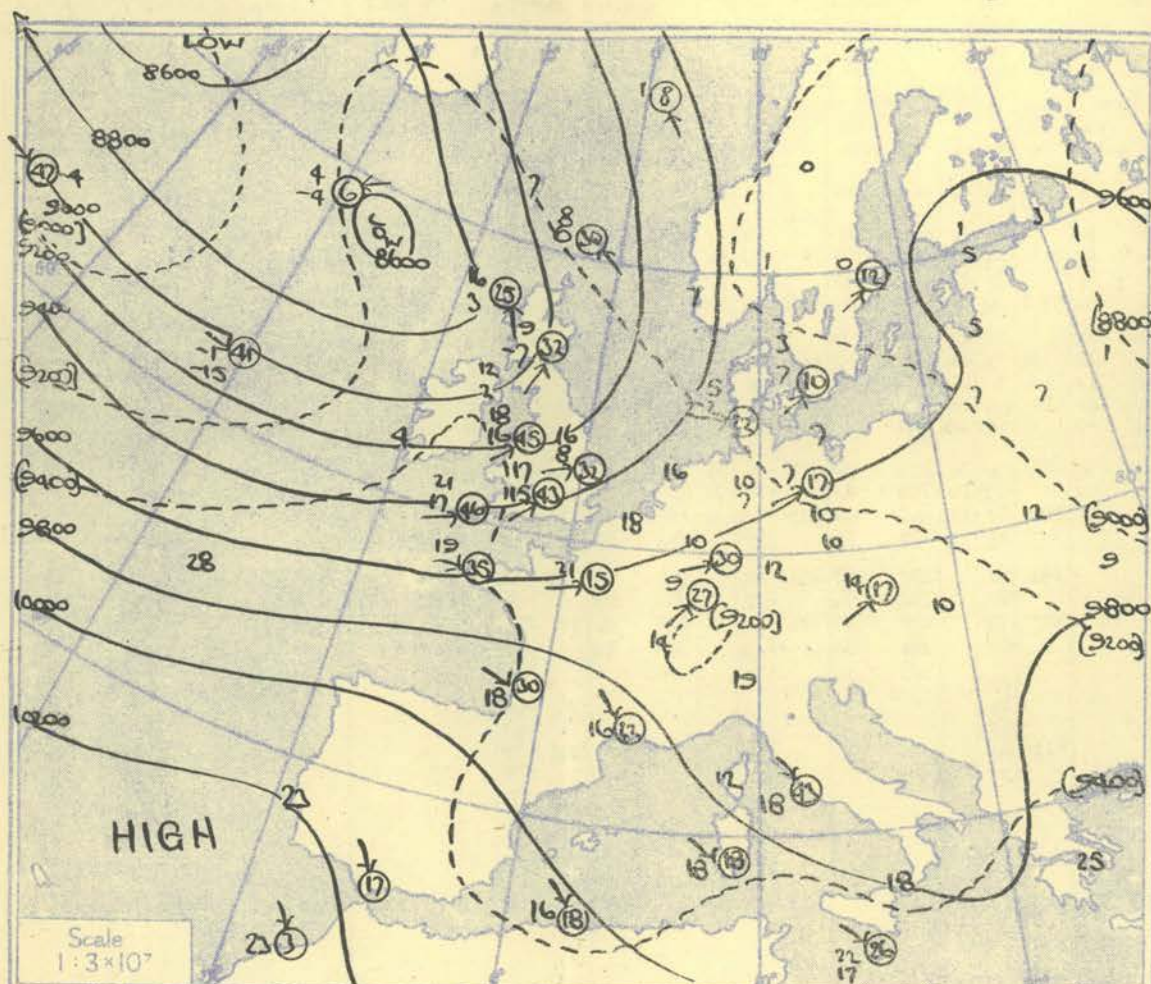
896 '2

995

915

[illegible]

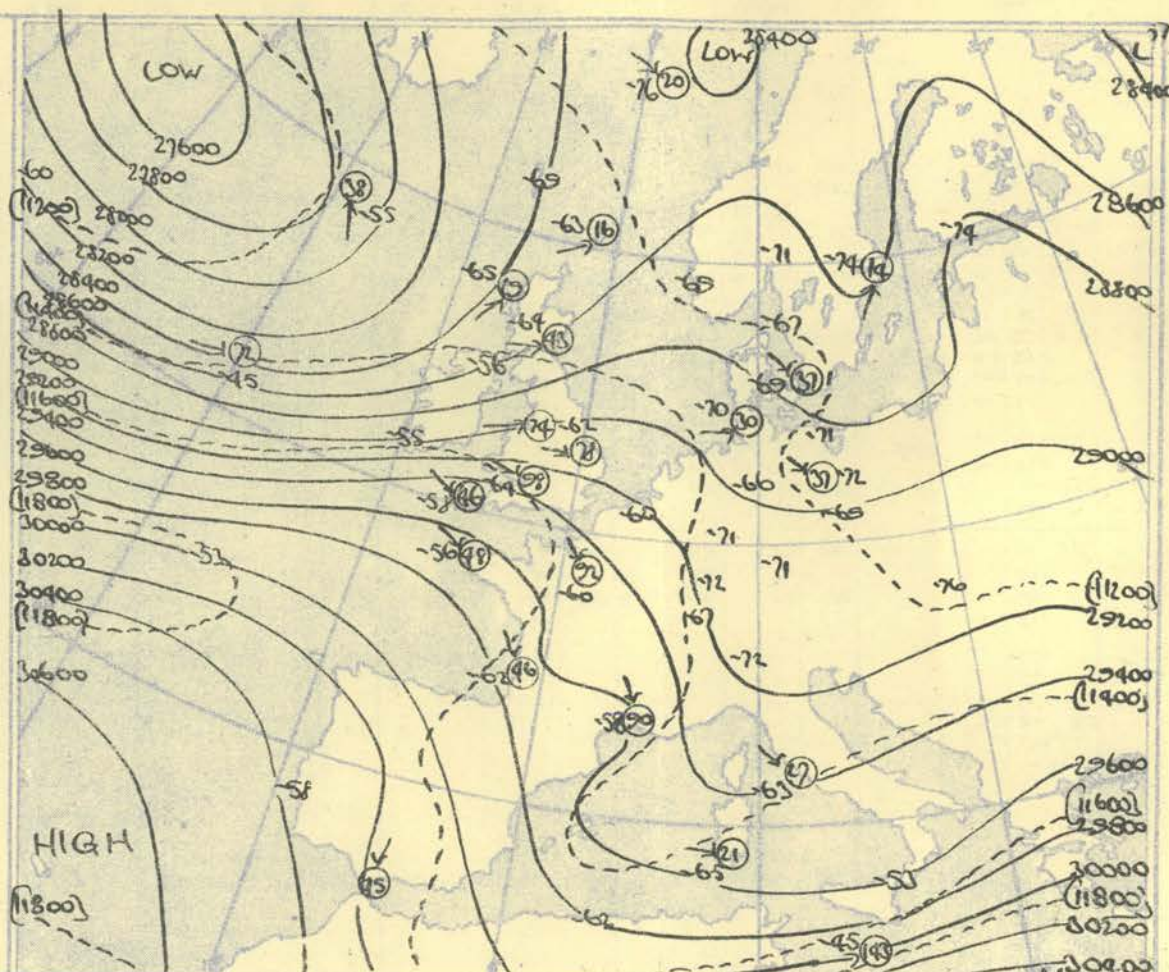
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h. G.M.T.



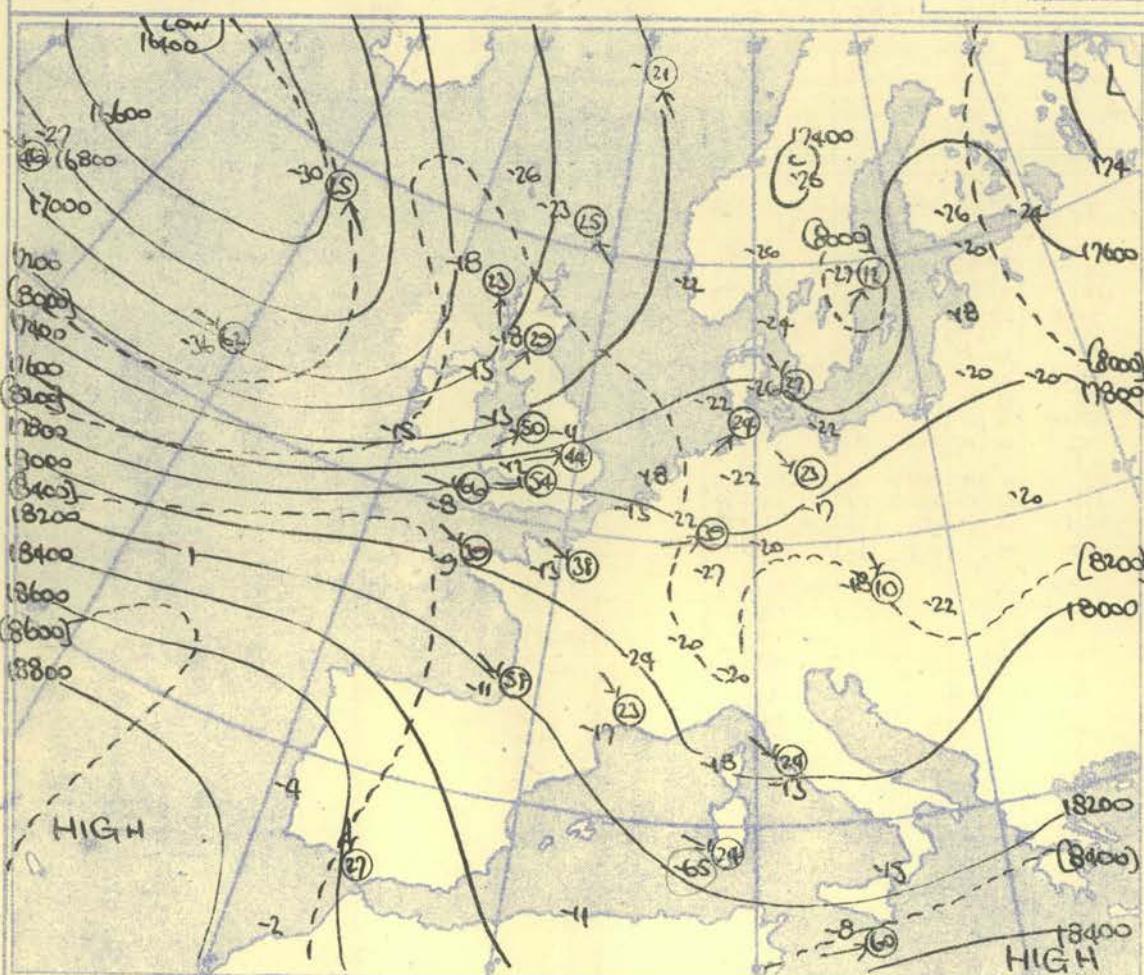
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N

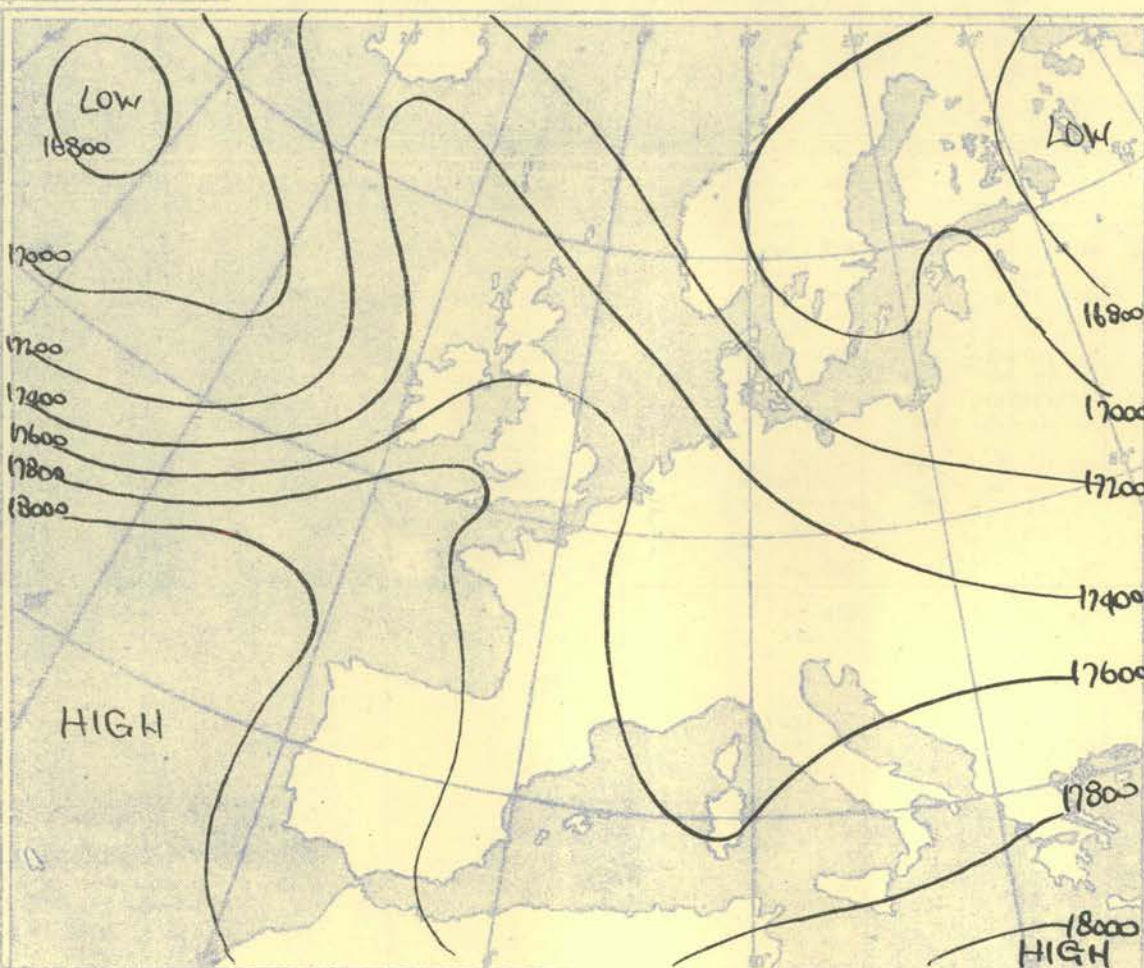
100 60 40 30 20 10 knots



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb.



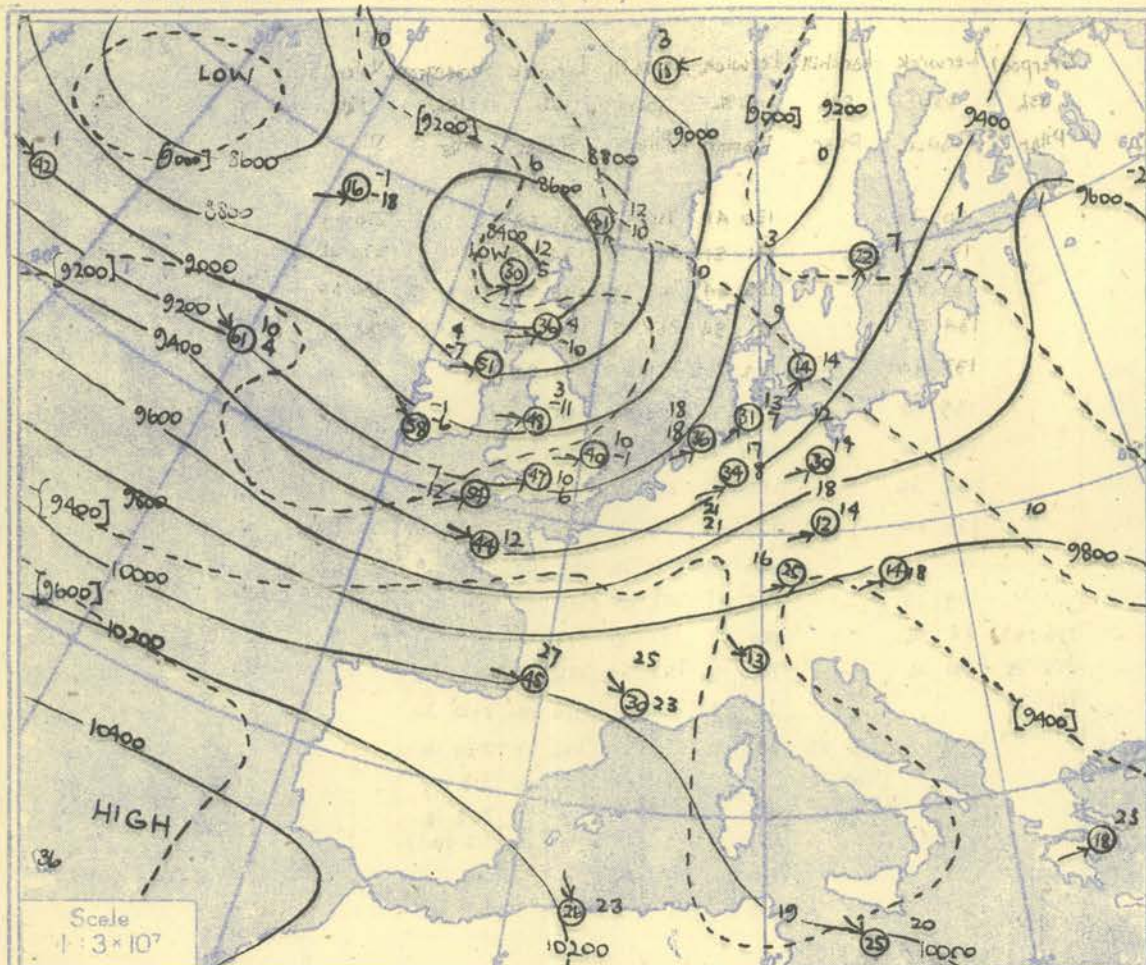
The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



Isopleths of Thickness 500-1000mb.

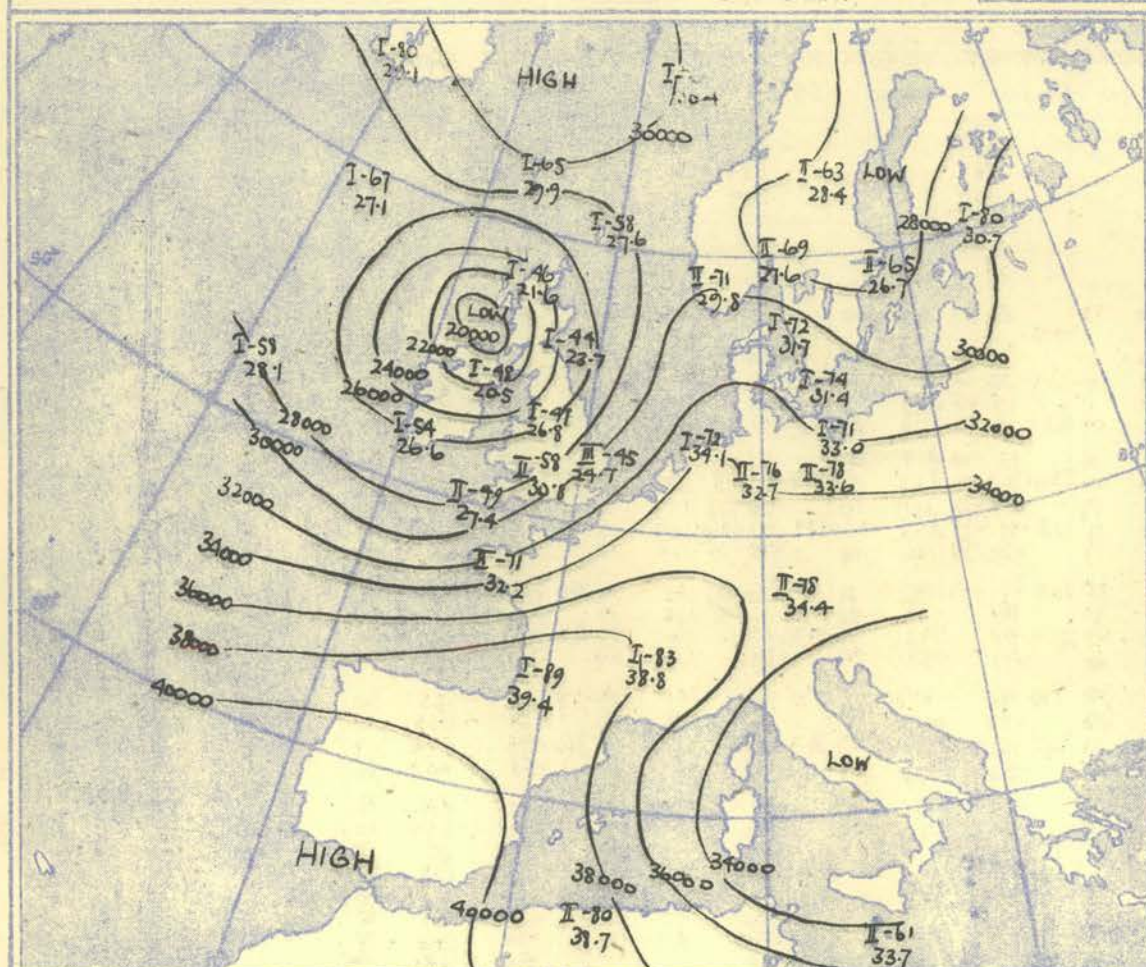
DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

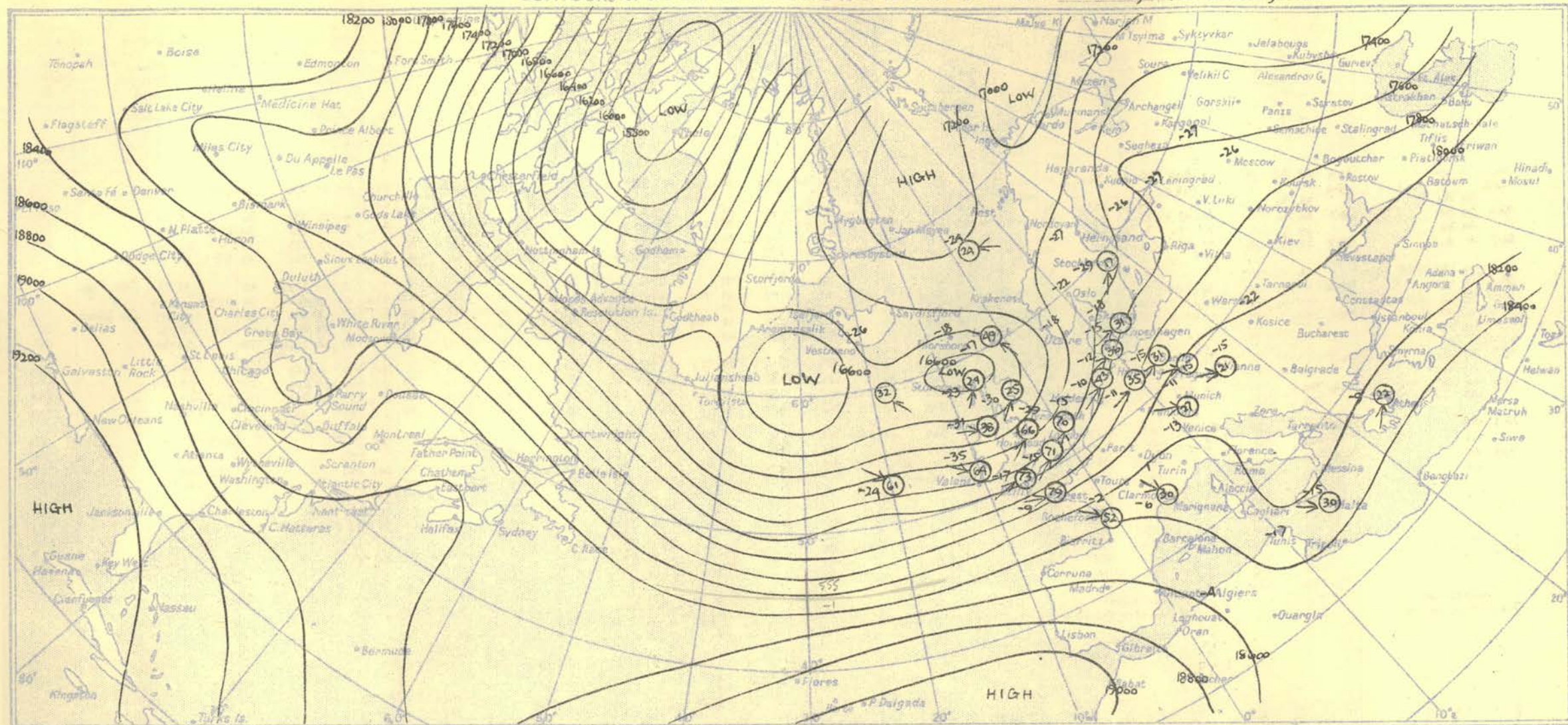
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.[illegible]



The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000—700 mb.

TROPOPAUSE CHART at about 15h. G.M.T.

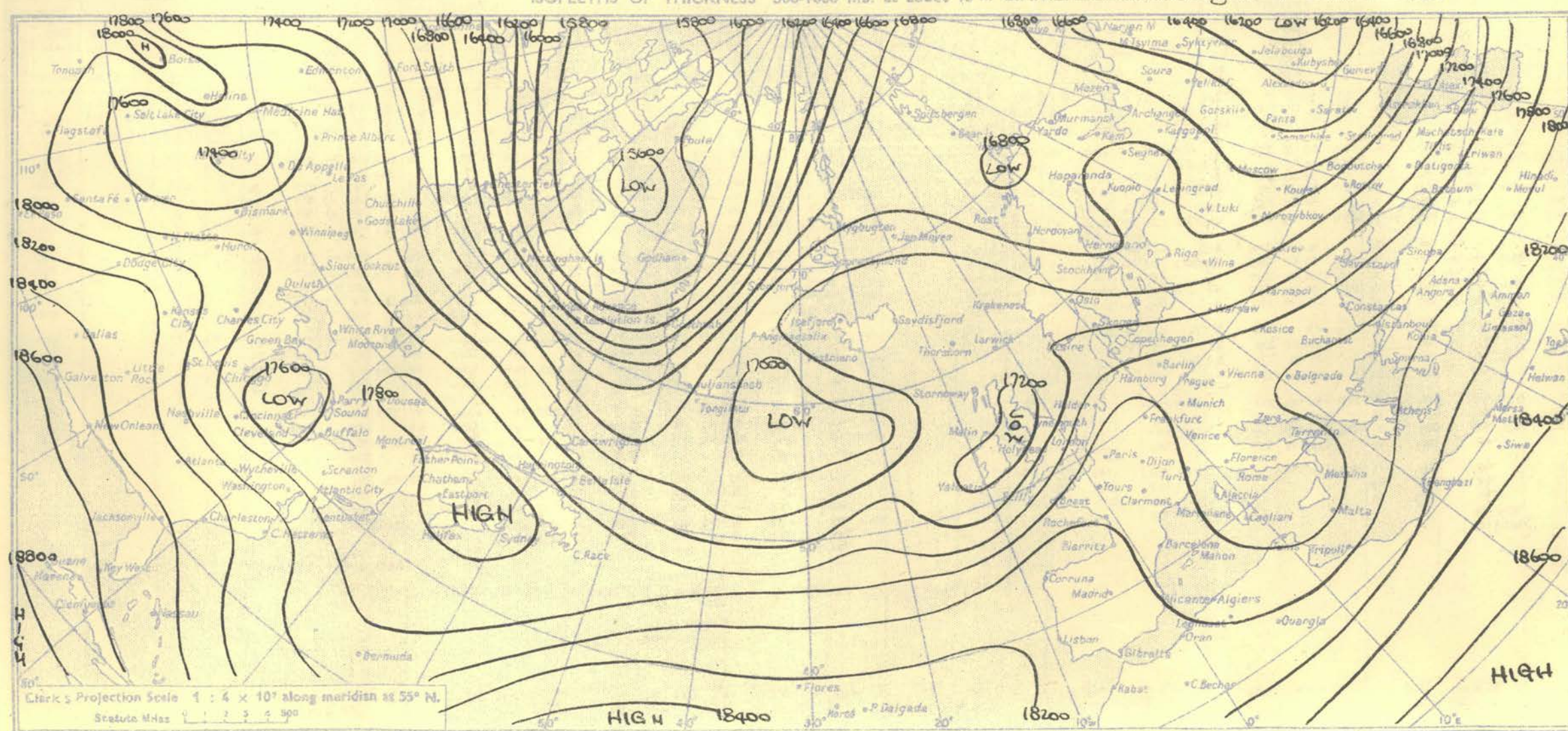




ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T.

February 17th

1951.



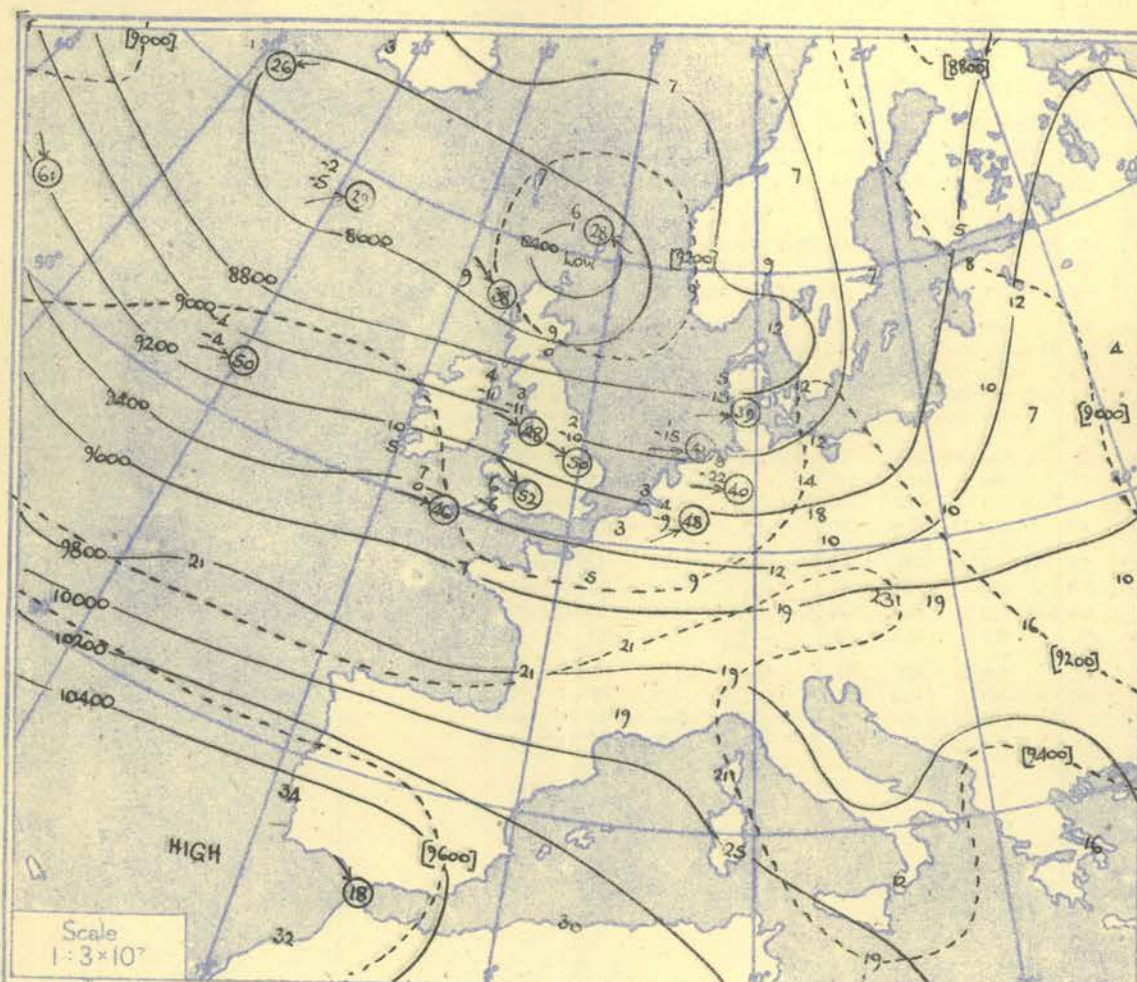
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

Station	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				Station																						
Time M.S.L. Surf Pressure	15h.		G.M.T.		15h.		G.M.T.		15h.		G.M.T.		15h.		G.M.T.		15h.		G.M.T.		15h.		G.M.T.		15h.		G.M.T.		15h.		G.M.T.		Time M.S.L. Surf Pressure																										
	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb																												
	978.7	968.8	914	885	965.5	963.9	939	982.3	981.4	939	986.7	978.0	932	992.2	990.1	924	994.5	990.0	896	997.4	981.3	900	1001.6	990.9	893	1000	999	935																															
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb																										
Surf 1000	02.7	38	38		00.4	40	38	190	25	00.2	40	30	240	27	02.6	37	31	230	30	00.6	39	30	250	20	01.2	40	38	210	11	04.4	41	38	270	10	02.9	44	31	270	25	00.3	40	34		Surf 1000															
950	05.7	36	36		09.4	38	35			18.0	34	25	228	26	03.3	37	31	230	30	02.1	39	30	250	20	01.5	40	38	210	11	04.4	41	38	270	10	02.9	44	31	270	25	00.3	40	34		950															
900	22.2	30	30		18.7	34	32	194	31	22.7	34	25	228	26	24.5	34	28	243	41	25.8	29	24	267	38	26.5	37	31	249	21	27.3	37	35	246	24	28.6	40	26	279	36	27.9	34	28		900															
850	26	26	26		39	26	202	30		30	21	16	236	41	22	17	253	46		22	18	268	42		23	11	266	22		28	25	259	32		25	17	293	39		21	16		850																
800	52.7	21	21		49.5	23	19	200	30	53.0	14	09	240	40	55.0	17	11	268	50	56.1	15	07	269	42	57.1	22	09	265	23	57.9	23	21	261	39	59.0	18	05	285	42	58.1	14	08		800															
750		16	15	See Page 5 for Winds		18	14	202	31		08	03	247	39		11	03	270	54		09	03	267	42		17	02	245	32		16	12	260	45		13	04	276	45		07	02		750															
700	86.6	12	10			83.5	12	05	208	30	86.3	04	10	244	36	88.9	04	07	266	51	89.5	03	11	258	48	91.0	10	01	246	40	91.8	10	06	260	47	92.6	07	12	264	54	91.3	01	06		700														
650	06	02				05	02	203	30		04	13	246	46	28	03	12	264	46		01	12	242	57		03	09	263	57		04	06	260	50		05	18	262	61		09	13		650															
600	12.5	00	03			12.2	04	11	195	27	12.4	11	20	248	25	12.6	11	26	270	42	12.7	10	15	228	58	12.9	02	17	247	51	13.0	02	11	255	62	13.1	01	27	260	61	12.8	18	21		600														
550	07	11				12	24	187	21		22	33	241	25		20	33	275	39		20	23	225	63		04	24	234	68		06	29	249	69		07	34	261	75		26	30		550															
500	16.3	17	20		16.5	23	37	191	24	16.6	30	43	241	25	16.9	31	46	274	38	17.0	29	33	224	66	17.3	15	37	230	70	17.4	15	39	243	71	17.5	17	42	262	73	17.1	35	39		500															
450		27	31			35	47	171	26		34	51	236	31		42		269	36		36	41	231	66		25	36	226	71		26	52	246	73		28	53	262	88		38	44		450															
400	22.0	38	43		21.6	46		161	27	21.7	37	57	212	41	21.9	46		253	34	22.1	43	243	66	22.5	35	44	226	69	22.6	37	60	248	84	22.6	37	60	262	106	22.1	44		400																	
350		50				41		156	17		42		230	34		48		242	40		41		244	60		46		233	86		47		248	96		45		263	127		50		350																
300	28.3	58			28.0	46		177	12	28.1	47		227	28	28.2	47		248	40	28.4	42		241	62	28.9	51		233	83	28.9	52		250	110	29.0	50		283	53		300																		
250		48				45		180	15		46		225	33						42		245	57		54		244	75		55		245	88		59			44		250																			
200	37.2	44			36.9	45		201	26	37.1	40		229	36						43		249	39	37.6	53		247	47	37.7	58		251	68	242	61			49		200																			
170		45				42		199	15		45		214	24						49		243	36		54		252	51		57		255	55			54		170																					
150		47			43.3	48		222	24	43.5	52		227	28						54		241	38	43.9	56		254	48	43.9	56		257	43							150																			
130		50				49		231	22		51		252	24						51		247	35		56		240	30		58		259	39						130																				
110		48				51		219	16		54		230	24						54		246	21		57		260	24		59		257	33						110																				
100	52.4	50			52.2	52		212	21	52.3	54		235	19						54		239	26	52.6	59		254	23	52.5	58		242	32							100																			
90	(93mb)	52				49		213	31		56		247	14						57		239	24		58		254	23		60		247	32						90																				
80						48		223	16		55									56										63		262	25						80																				
70						48		216	18																														70																				
60																																								60																			
Isothermol 750-744 mb 16°								Inversion 752 mb 07°-732 mb 09°												Inversion 600 mb 62°-587 mb 01°								Inversion 625 mb 01°-605 mb 03°								Inversion 680 mb 04°-635 mb 05°																							
								Isothermol 484-465 mb 32°																				Isothermol 704-687 mb 10°																															

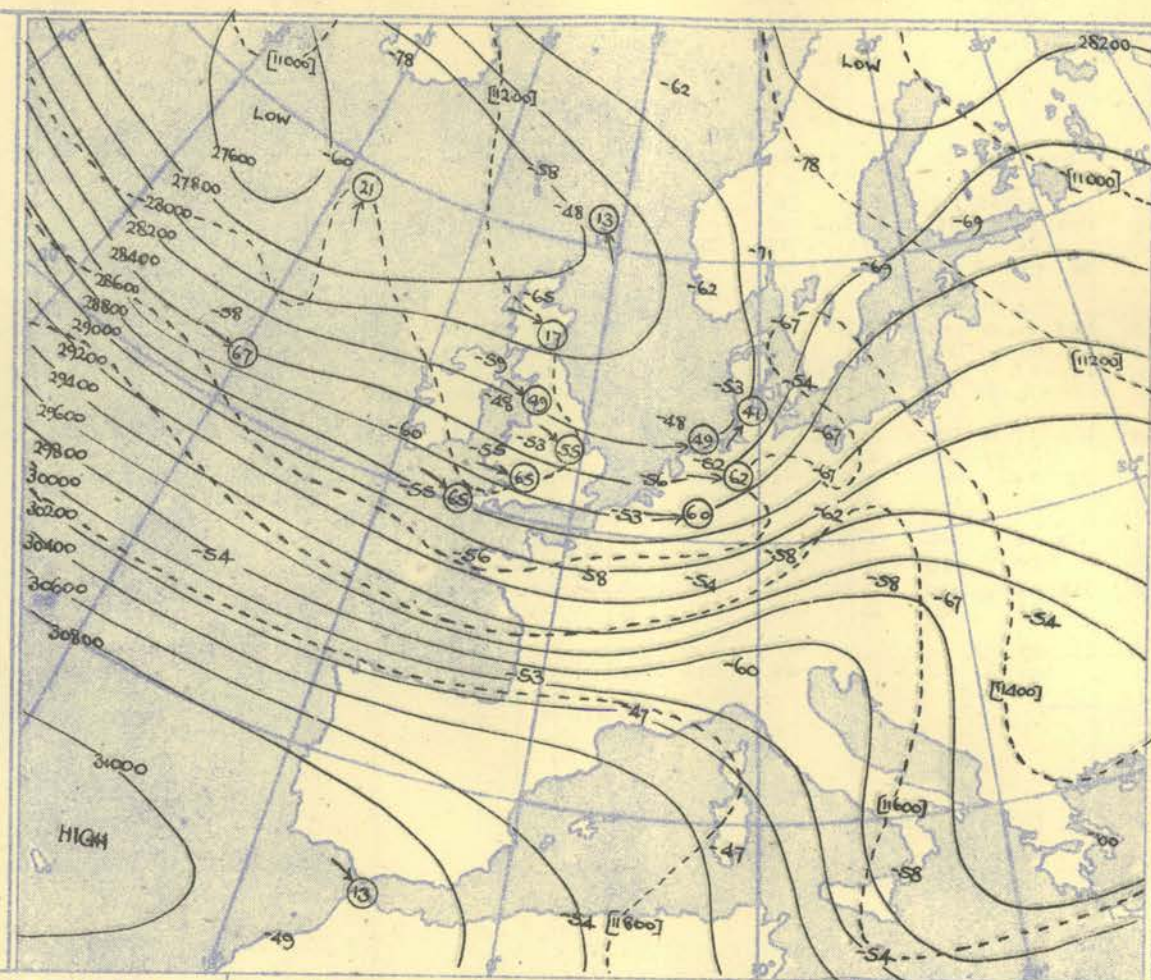
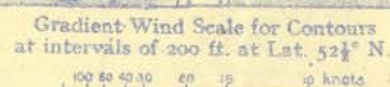
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION			
Pressure	Time	03L		G.M.T.		03L		G.M.T.		03L		G.M.T.		03L		G.M.T.		03L		G.M.T.		03L		G.M.T.		03L		G.M.T.		03L		G.M.T.		Time	Pressure						
	M.S.L.	970.7		mb		970.6		mb		980.3		mb		991.8		mb		996.2		mb		1006.2		mb		1004.6		mb		1007.8		mb		M.S.L.	mb						
	Surf	959.9		mb		969.0		mb		979.4		mb		982.4		mb		994.1		mb		995.5		mb		998.2		mb		997.0		mb		Surf	mb						
Freezing		921		mb		900		mb		939		mb		956		mb		930		mb		953		mb		925		mb		932		mb		Freezing	mb						
Pressure	mb	Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Pressure	
		ft./100	°F.	°F.	°F.	°F.	°F.	Dir.	Vel.	ft./100	°F.	°F.	°F.	°F.	°F.	Dir.	Vel.	ft./100	°F.	°F.	°F.	°F.	°F.	Dir.	Vel.	ft./100	°F.	°F.	°F.	°F.	°F.	Dir.	Vel.	ft./100	°F.	°F.	°F.	°F.	mb		
Surf	1000	2.7	36	36	30	22	0.4	39	36	2.6	36	30	270	28	2.6	34	30	0.6	38	29	250	25	1.2	34	31	220	14	4.4	33	31	250	17	2.9	40	35	280	10	0.3	38	07	Surf
950		8.2	35	35	109	31	7.7			5.3	33	26	254	51	3.2	28		1.1	34	24	253	39	0.0	32	28	253	37	1.3	35	31	252	36	2.1	34	28	248	43	3.9	33	950	
900		19.7	30	30	113	36	20.2	32	273	34	22.5	28	18	257	55	25.9	28	26.8	28	23	264	47	27.7	28	24	271	48	29.1	29	26	262	39	29.9	29	24	256	40	28.0	33	900	
850			24	24	114	37		27	281	33		23	09	268	63		23	18	27	14	268	49	21	16	276	50		24	20	269	48		23	17	258	41	27	24	850		
800		50.1	19	17	116	32	50.8	21	289	33	52.8	19	06	276	63	55.8	16	13	57.0	16	06	270	49	57.9	14	09	277	48	59.5	18	09	273	46	60.3	18	11	264	43	58.6	22	800
750			14	11	120	27		18	286	36		14	11	275	63		11	05		09	00	272	50		09	00	277	48		13	00	279	46		13	07	269	44	16	12	750
700		83.8	06	01	123	28	84.6	09	289	45	86.6	09	10	270	61	89.3	04	11	90.4	03	11	276	48	91.3	02	10	280	50	93.1	06	04	282	52	93.9	07	00	272	46	92.5	10	700
650			01	07	127	24		01	293	45		03	11	271	49		05	19		05	20	280	49		06	22	285	51		03	15	287	52		04	08	277	50	03	00	650
600		121	07	13	138	21	123	06	284	48	125	04	13	274	42	127	13	26	128	12	27	283	52	129	15	30	284	54	131	12	27	283	54	132	09	18	270	48	131	05	600
550			16	20	170	17		15	277	46		14	24	273	38		22	33		21	38	282	52		24	36	284	63		20	28	289	63		20	30	282	46	14	17	550
500		165	27	32	178	18	166	25		168	24	34	271	33	169	29	43	170	32	44	283	59	171	34	45	284	56	173	29	37	291	63	174	29	42	289	54	174	25	500	
450			37	43	176	19		34			35	44	281	21		37	55		43		284	72		44		283	58		36	45	287	63		40	56	290	63		35	40	450
400		215	44		167	16	216	44		218	49		301	23	219	49		220	50		289	76	220	51		277	66	224	46		281	64	224	50		289	69	224	45	400	
350			46		161	13		56			58		276	18		58			51		286	67		52		275	72		57		273	54		54			52		350		
300		278	48		148	13	279	52		280	65		266	17	281	59		283	48		282	49	283	53		276	55		286	55		273	65	286	55			287	60	300	
250			45		186	16		52	284	18		42	262	25		53			50		272	38		55		267	57		51		272	63		52			57		250		
200		368	46		190	13	367	48	241	13	369	49	251	24	369	52		372	47		263	49	370	55		267	54	374	55		266	63	374	55			374	53	200		
170			48		190	16		47	246	15		48	249	24		50			47		256	42		53		268	38		55		266	58		57			55		170		
150			51					47	247	14		47	245	17		51			53		280	27		55		268	39		54		271	46		56			56		150		
130			51					48	234	12		50	245	21		53			57		294	30		59		268	41		56		258	35		60			58		130		
110		(42mb)																(112mb)																				57		110	
100																																							52.3	57	100
90																																									90
80																																									80
70																																									70
60																																									60
Tropopause		400mb - 44° 22.100				350mb - 56° 24.600				310mb - 68° 27.300				315mb - 63° 27.200				378mb - 52° 23.300				263mb - 57° 31.100				326mb - 59° 26.700				365mb - 56° 24.300				313mb - 16° 27.700				Tropopause			
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE								STATION			
Pressure	Time	09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		Time	Pressure						
	M.S.L.	966.3		mb		976.1		mb		982.1		mb		990.8		mb		994.9		mb		999.9		mb		1004.3		mb		1006.1		mb		M.S.L.	mb						
	Surf	956.5		mb		974.5		mb		981.2		mb		991.5		mb		992.9		mb		995.4		mb		998.9		mb		995.4		mb		Surf	mb						
Freezing		900		mb		918		mb		927		mb		938		mb		948		mb		958		mb		968		mb		978		mb		Freezing	mb						
Pressure	mb	Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Pressure	
		ft./100	°F.	°F.	°F.	°F.	°F.	Dir.	Vel.	ft./100	°F.	°F.	°F.	°F.	°F.	Dir.	Vel.	ft./100	°F.	°F.	°F.	°F.	°F.	Dir.	Vel.	ft./100	°F.	°F.	°F.	°F.	°F.	Dir.	Vel.	ft./100	°F.	°F.	°F.	°F.	mb		
Surf	1000	2.7	35	35	270	02	4.0	38	36	0.2	36	32	250	26	2.6	37	34	0.6	40	35	250	20	1.2	36	34	210	23	4.4	37	36	275	22	2.9	44	37	275	20		Surf		
950		9.0					6.5			4.8					2.4			1.4					0.0					1.1					1.6						950		
900			35	35				36	35																																

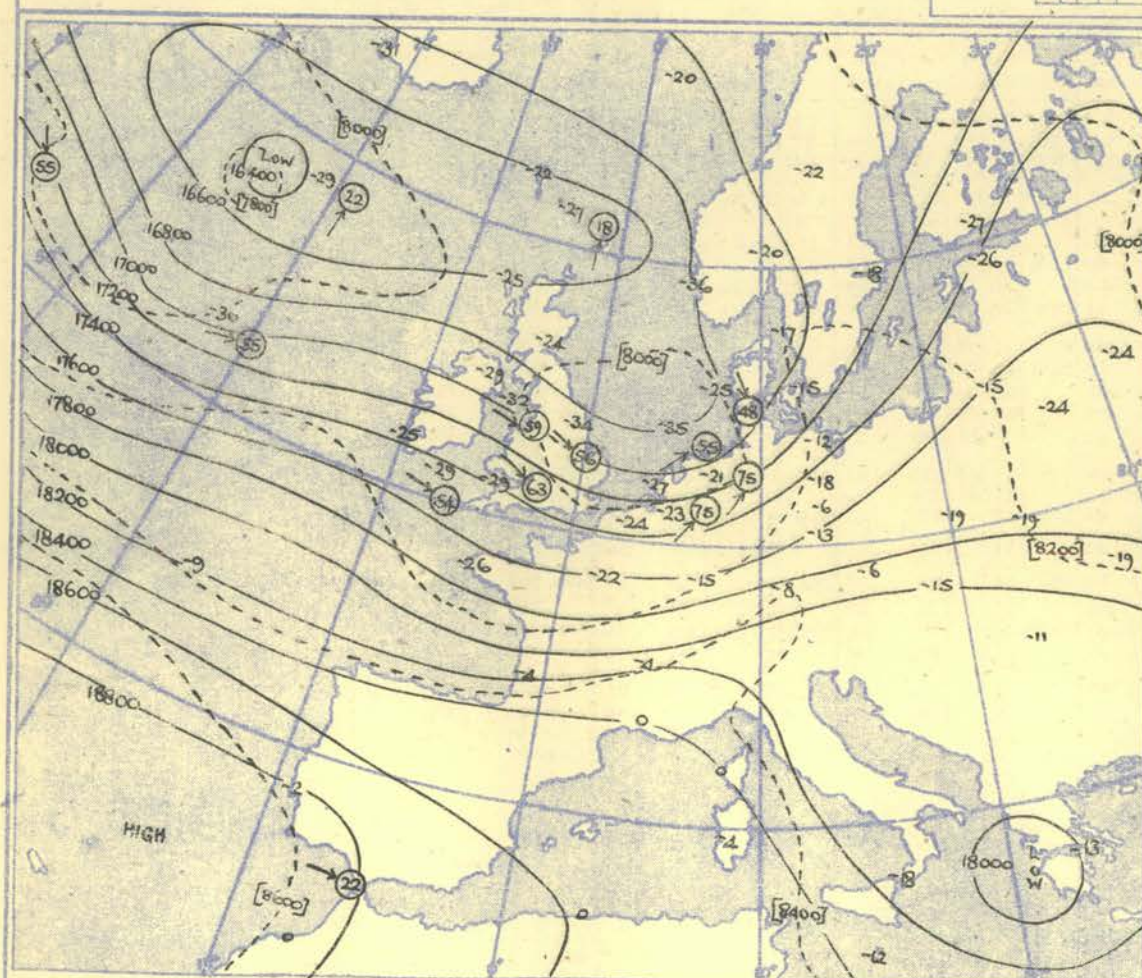
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h G.M.T.



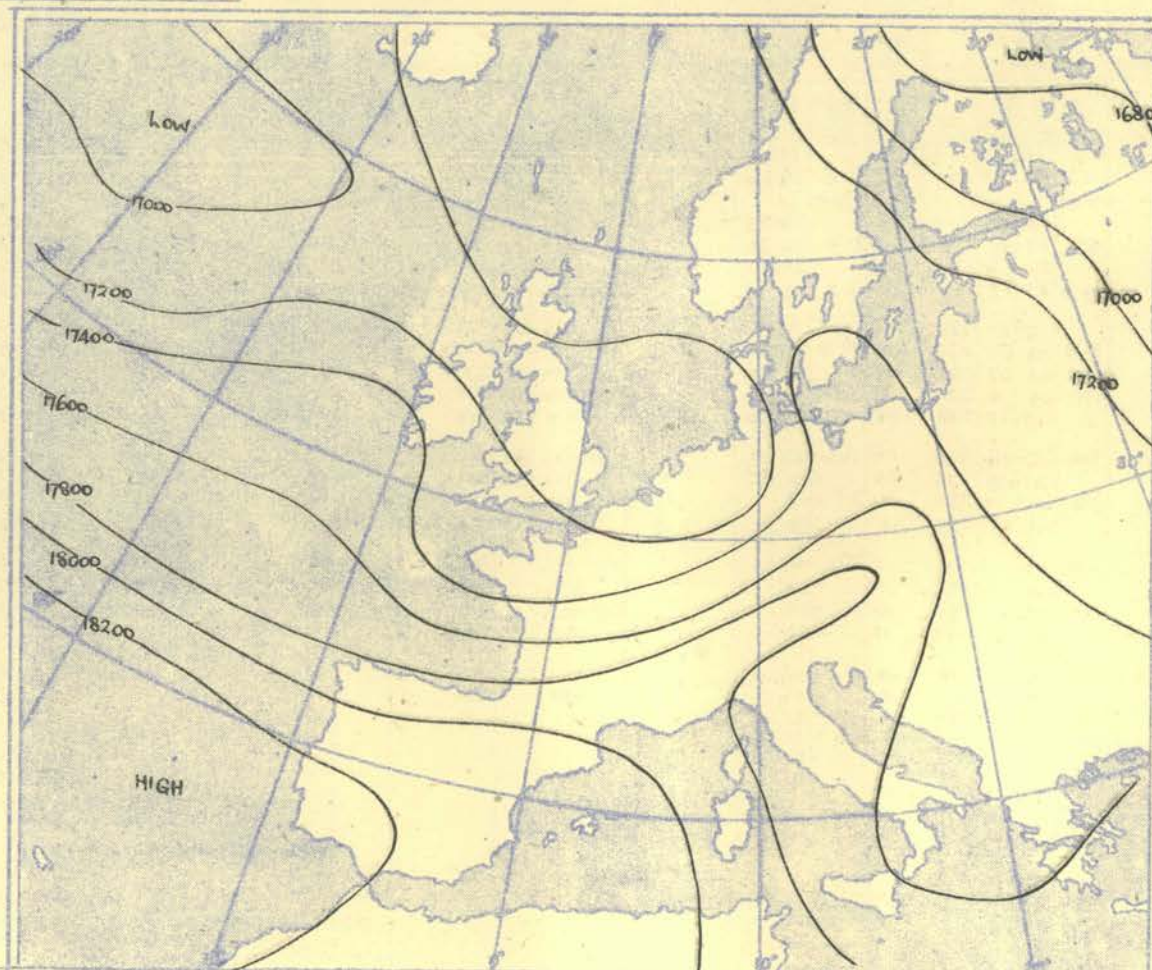
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000—700 mb.



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500 - 300 mb



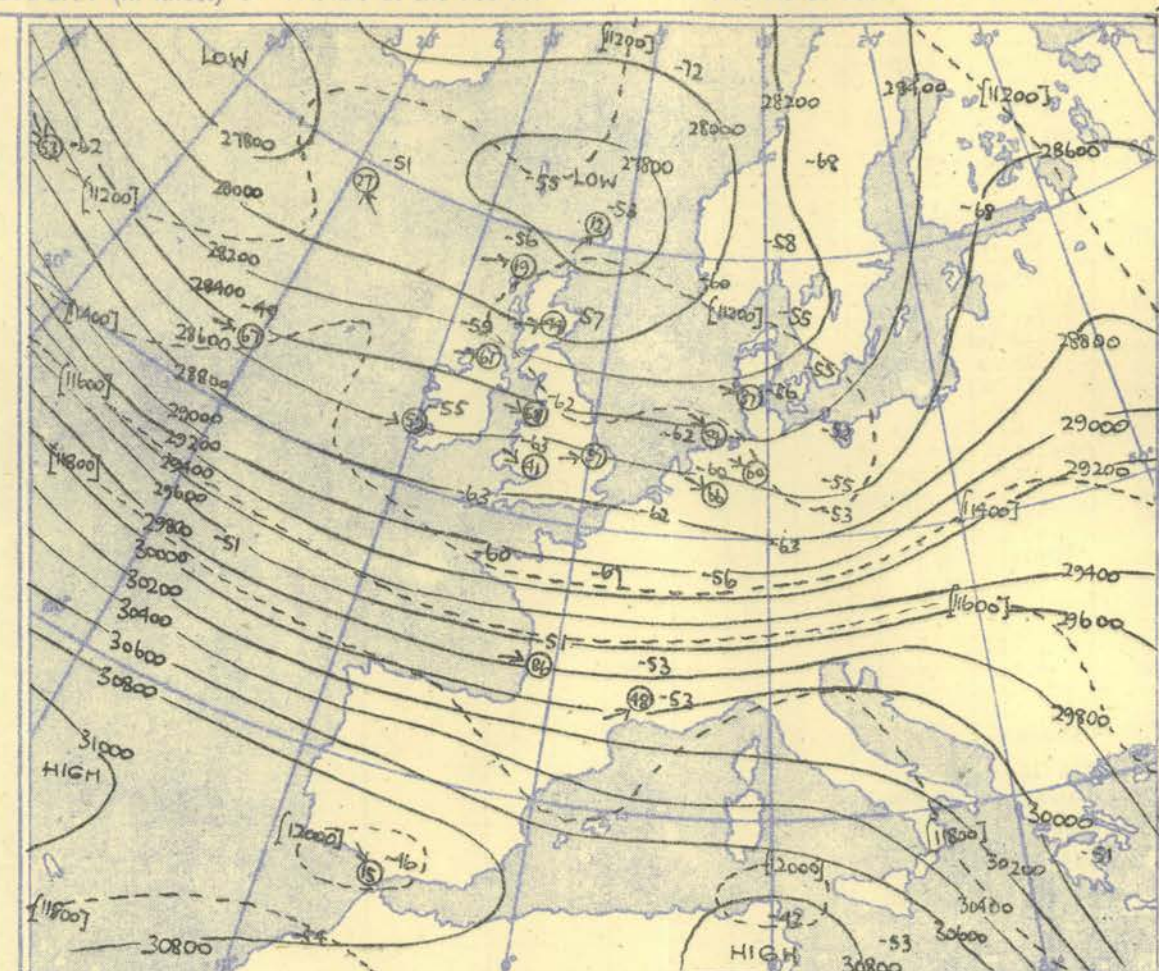
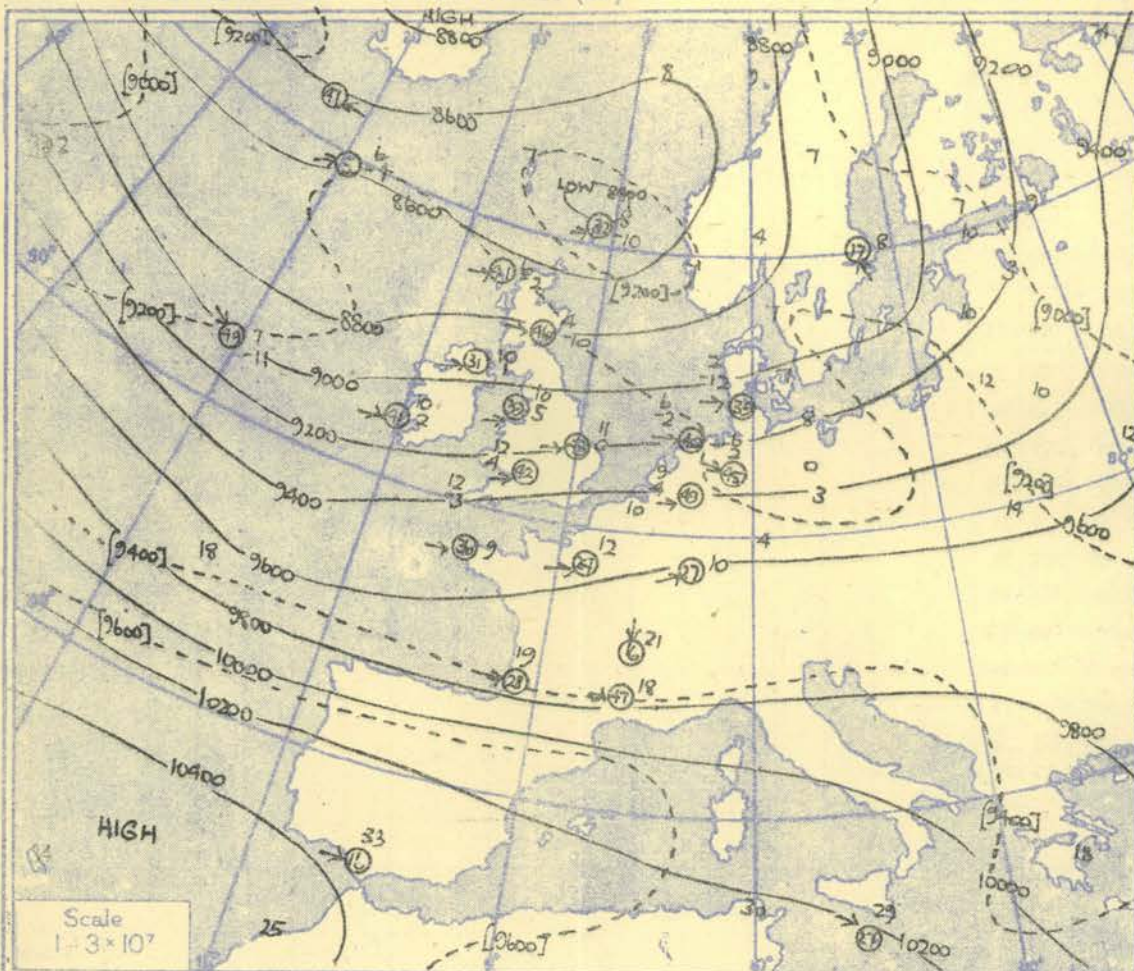
The continuous lines are contour lines of the 500mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



Isopleths of Thickness 500-1000mb.

WINDS at heights above

Page 4. HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15h G.M.T.

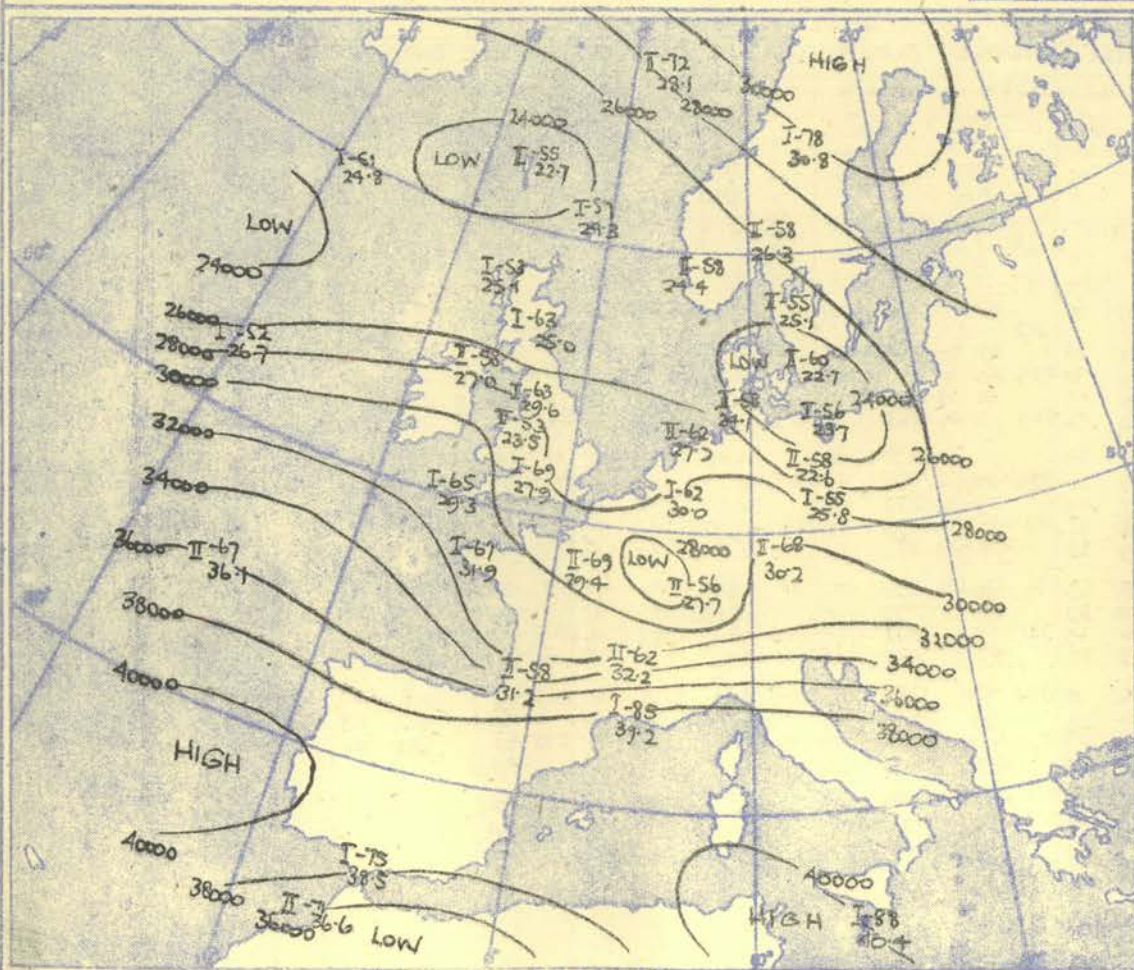


The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours at intervals of 200 ft. at Lat. 52° N.

The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

TROPOPAUSE CHART at about 15h. G.M.T.



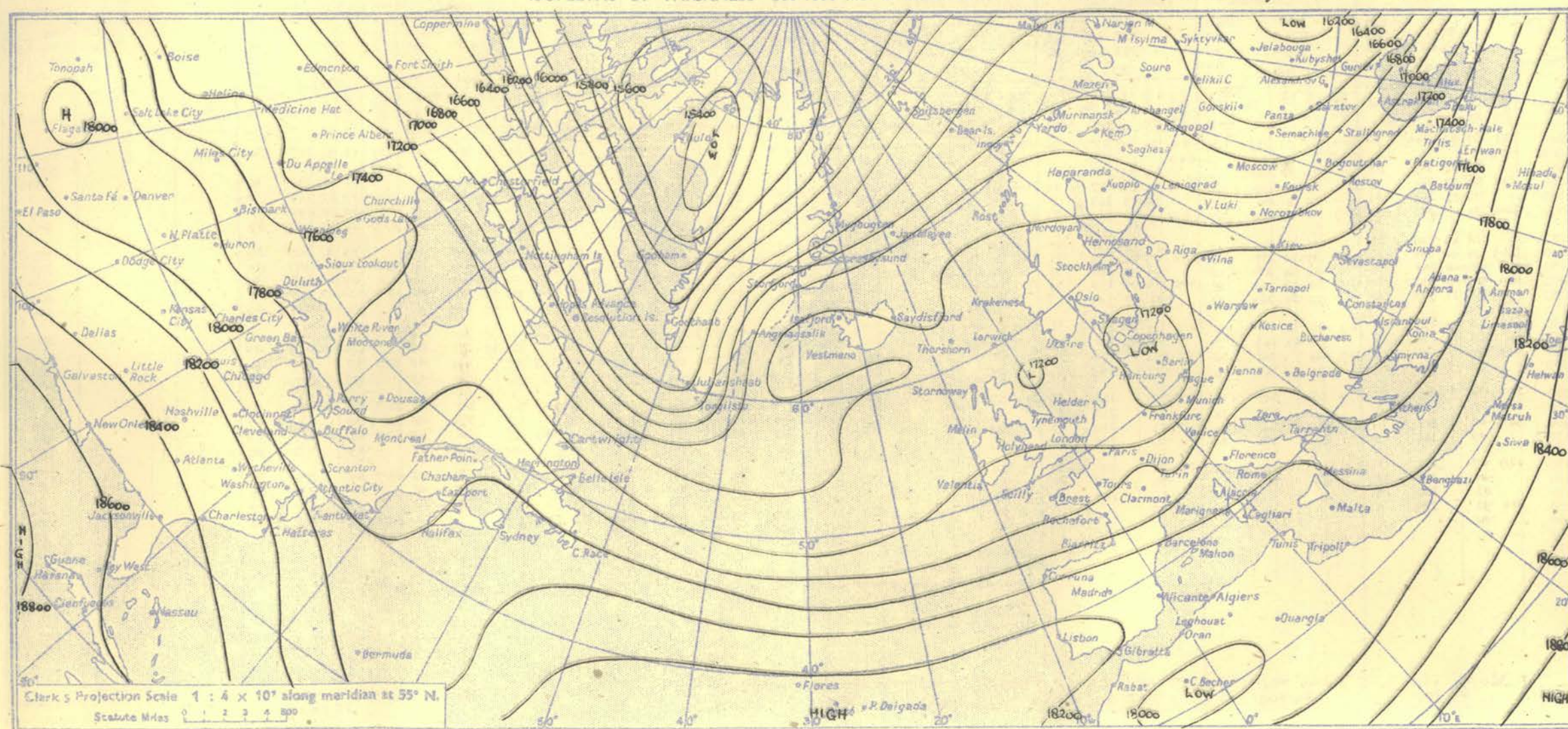
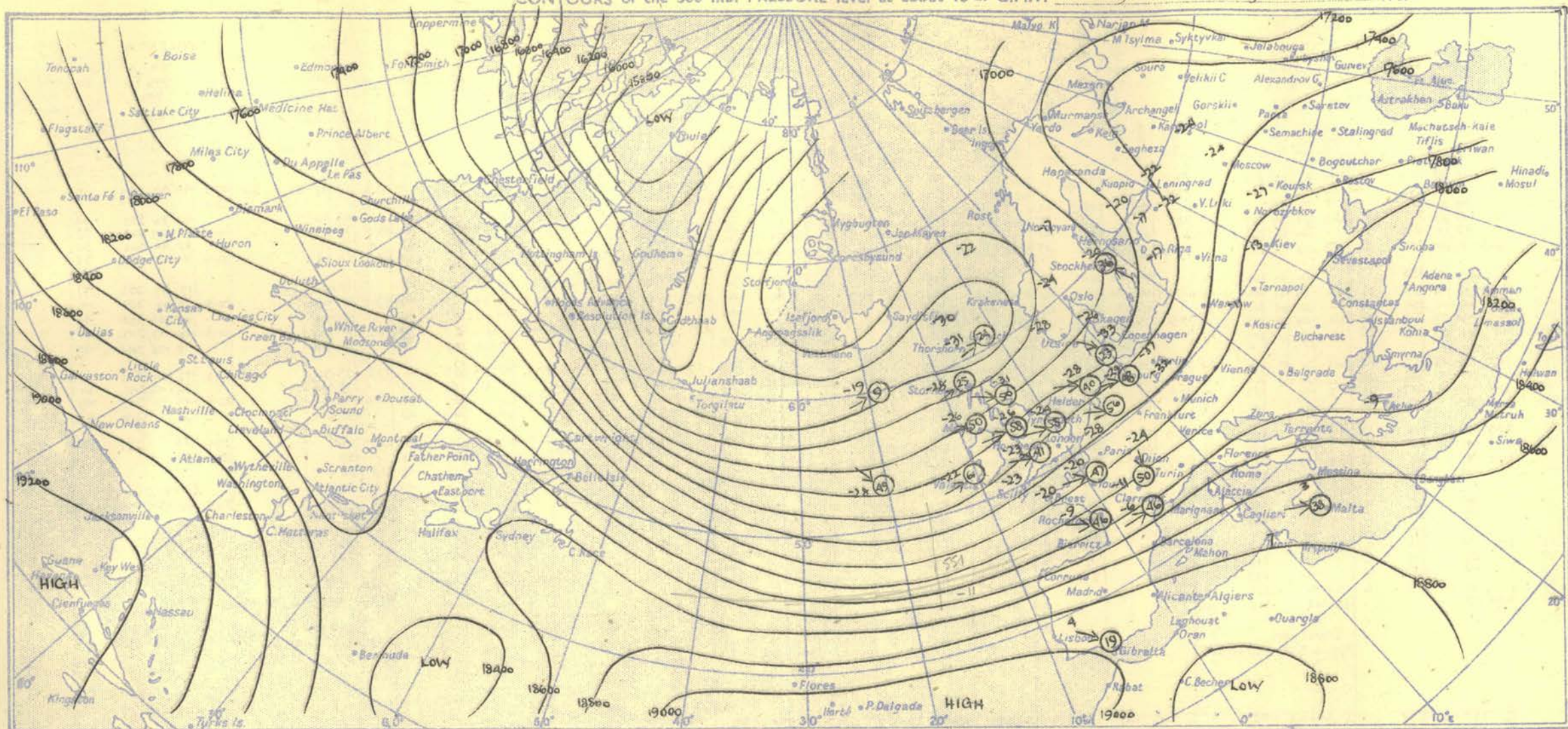
Contour lines of Height of Tropopause.
Temperature of Tropopause.

NOTES ON THE AEROLOGICAL SITUATION.

A weak thermal ridge crossed the British Isles during the day but the main thermal gradient was between 40° and 60° N across the Atlantic with slack gradients further north. A well marked cold trough extended down the West Greenland coast.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

Meteorological Office, Air Ministry, Kingway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



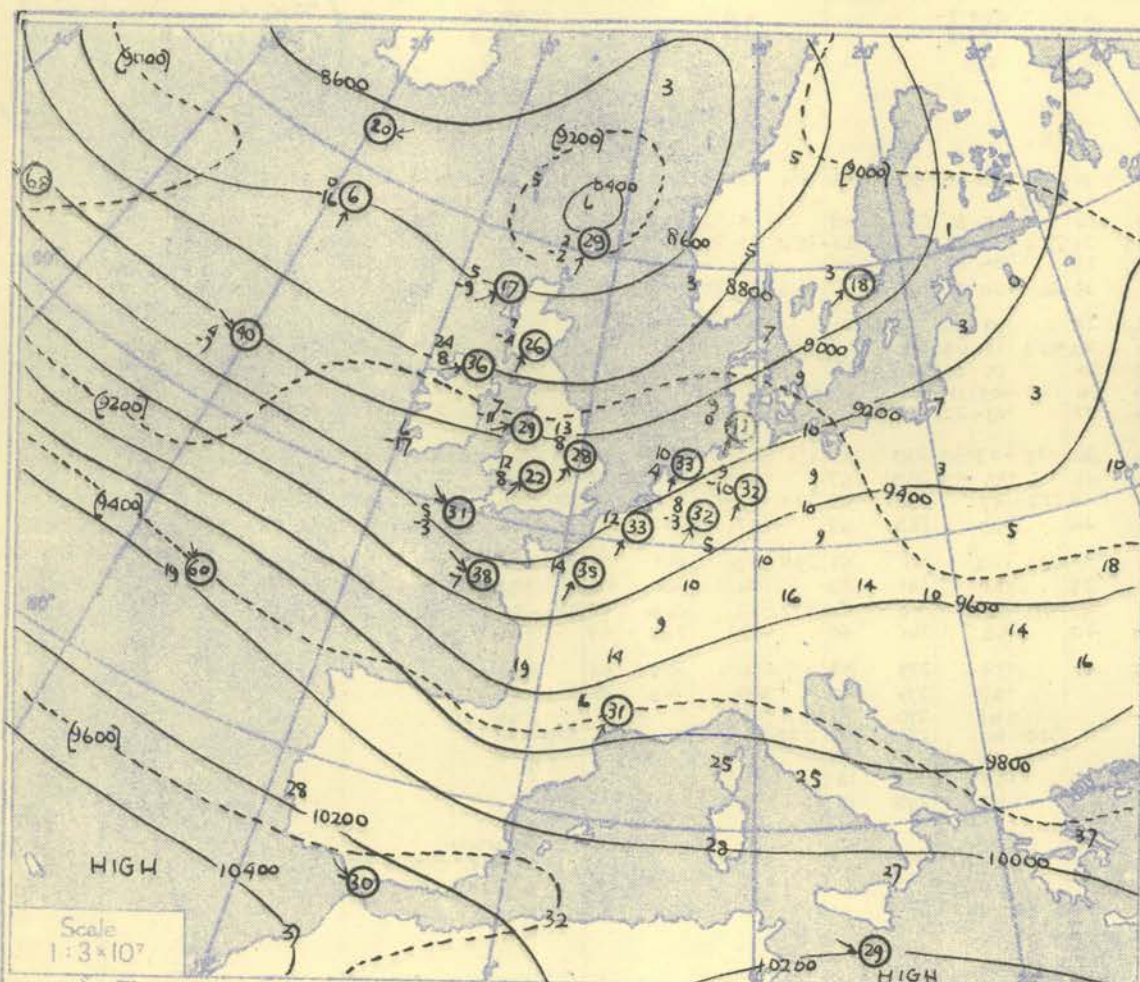
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION										
Time M.S.L.	15h.			G.M.T.	15h.			G.M.T.	15h.			G.M.T.	15h.			G.M.T.	15h.			G.M.T.	15h.			G.M.T.	15h.			G.M.T.	15h.			G.M.T.	Time M.S.L.													
Surf	969.3			mb	978.6			mb	984.3			mb	988.8			mb	992.7			mb	999.0			mb	1000.9			mb	1000.9			mb	992.7			mb										
Freezing	959.5			mb	977.2			mb	983.4			mb	979.5			mb	990.6			mb	994.6			mb	985.2			mb	990.4			mb	991			mb										
Pressure	903			mb	892			mb	913			mb	908			mb	888			mb	897			mb	867			mb	880			mb	895			mb										
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. knots	Pressure mb													
Surf	01.7	40	33	260	24	00.4	37	34	270	15	00.2	43	34	250	21	02.6	40	35	220	15	00.6	45	38	230	15	01.2	43	40	225	30	04.4	45	38	250	18	02.9	48	42	203	10	Surf					
1000	08.3					05.7					04.3					03.0					02.0					00.3					00.2					00.2				1000						
950		39	32	257	31		33	24	267	38		35	28	249	34		37	33	240	25		37	33	240	25		37	33	240	45		42	33	230	33		42	36	950							
900		31	27	257	31		22.3	33	24	267	38		23.7	31	21	260	37		25.0	31	21	260	37		26.2	33	24	249	25		27.8	32	26	249	49		28.5	35	29	900						
850		26	19	259	33			26	18	263	43		26	13	264	40			28	20	247	31			27	24	245	30			28	20	253	50		29	22	242	45		28	21	850			
800		21	04	258	36		52.8	18	13	262	42		54.2	19	05	264	43		55.8	22	13	248	29		56.9	22	19	240	33		58.5	23	09	257	45		59.2	25	13	242	46		59.3	24	04	800
750		15	03	255	33			12	04	263	41		11	03	264	44		15	09	248	30		16	13	243	34		18	04	255	43		19	06	241	45		19	00	750						
700		08	10	253	32		86.4	06	02	266	41		87.7	04	10	264	46		89.6	10	01	249	31		90.7	10	05	246	39		92.5	11	00	258	43		93.3	12	03	900						
650		00	21	254	31			01	04	263	32		04	18	264	46		01	07	248	42		01	05	254	46		04	05	257	45		04	03	253	41		05	09	700						
600		09	28	261	38		2.4	08	15	263	24		12.5	12	26	265	45		12.8	08	13	245	47		12.9	06	13	258	51		13.1	05	15	264	48		13.1	04	11	253	39		13.2	04	16	650
550		20	33	261	33		17	21	259	22		21	36	268	47		18	25	243	50		16	23	253	55		14	25	262	50		13	21	252	42		12	24	550							
500		16	5	252	24		16.7	25	33	246	25		16.8	31	46	269	50		17.1	26	34	249	50		17.2	26	33	257	58		17.4	24	35	259	55		17.5	23	32	253	41		17.5	23	36	500
450		38	52	244	26		38	43	260	19		42	45	269	48		35	45	252	50		37	44	250	59		34	46	263	56		37	46	259	44		37	46	259	44		34	42	450		
400		49	247	247	22		21.7	46	253	19		21.8	52	261	38		22.1	43	256	56		23.2	49	254	61		22.5	46	265	57		22.5	45	258	45		22.6	42	450							
350		57	233	233	20		56	249	19		61	256	41		50	260	65		53	269	74		57	269	74		49	261	261	57		60	268	43		60	268	43		51	249	48	350			
300		27	53	218	12		28.0	56	251	19		27.9	57	261	44		28.4	59	261	61		28.4	62	270	68																		300			
250		49	214	10			48	254	25		49	266	35		56	264	50		52	268	46		52	270	46																			250		
200		50	201	15			47	261	20		53	267	31		57	264	41		57	273	35		57	273	35																			200		
170		47	206	12			45	256	18		49	263	29		54	274	31		50	265	43		54	270	43																			170		
150		50	187	11			43	245	23		43	264	25		43	265	29		47	270	40		52	275	41																			150		
130		52	17	17			42	230	20		49	259	22		54	257	36		47	279	30		52	279	32																			130		
110		53	227	09			48	221	20		48	254	19		52	267	27		45	262	24		52	279	32																			110		
100		54	220	12			52	218	19		51	257	18		52	274	22		44	255	24		52	279	32																			100		
90		52	218	12			45	218	16		48	258	20		47	255	24		44	273	20		52	279	32																			90		
80		54	238	14			46	243	15																																			80		
70		55	240	16			45	231	13																																			70		
60		55					43	218	16																																			60		
Inversion 977mb 37°-950mb 38°																																														
Isothermal 415-463 mb -42°																																														
385-363 " -47°																																														
Inversion 380mb-53°-358mb-52°																																														
Inversion 375mb-50°-350mb-49°																																														
Isothermal 831-815 mb 26°																																														
431-411 " -42°																																														
Inversion 412mb-49°-400mb-42°																																														
Isothermal 675-665 mb 8°																																														
400-378 mb -42°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														
Inversion 335mb-54°-324mb-52°																																														

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA																																																																																																																																																																																																																																																																																																																																																																																																																										
Pressure mb	Time M.S.L.	Surf Freezing	03L		G.M.T.		03L		G.M.T.		03L		G.M.T.		03L		G.M.T.		03L		G.M.T.		03L		G.M.T.		03L		G.M.T.		03L		G.M.T.																																																																																																																																																																																																																																																																																																																																																																																																																										
			971.3	mb	978.2	mb	981.6	mb	976.4	mb	988.3	mb	990.2	mb	991.9	mb	995.9	mb	993.4	mb	992.2	mb	985.3	mb	985.3	mb	985.3	mb	985.3	mb	985.3	mb	985.3	mb																																																																																																																																																																																																																																																																																																																																																																																																																									
			961.4	mb	976.6	mb	982.5	mb	976.4	mb	986.2	mb	985.8	mb	975.9	mb	985.3	mb	985.3	mb	985.3	mb	985.3	mb	985.3	mb	985.3	mb	985.3	mb	985.3	mb	985.3	mb	985.3	mb																																																																																																																																																																																																																																																																																																																																																																																																																							
Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Height ft./100	Temp. °F.	Dew °F.	Wind

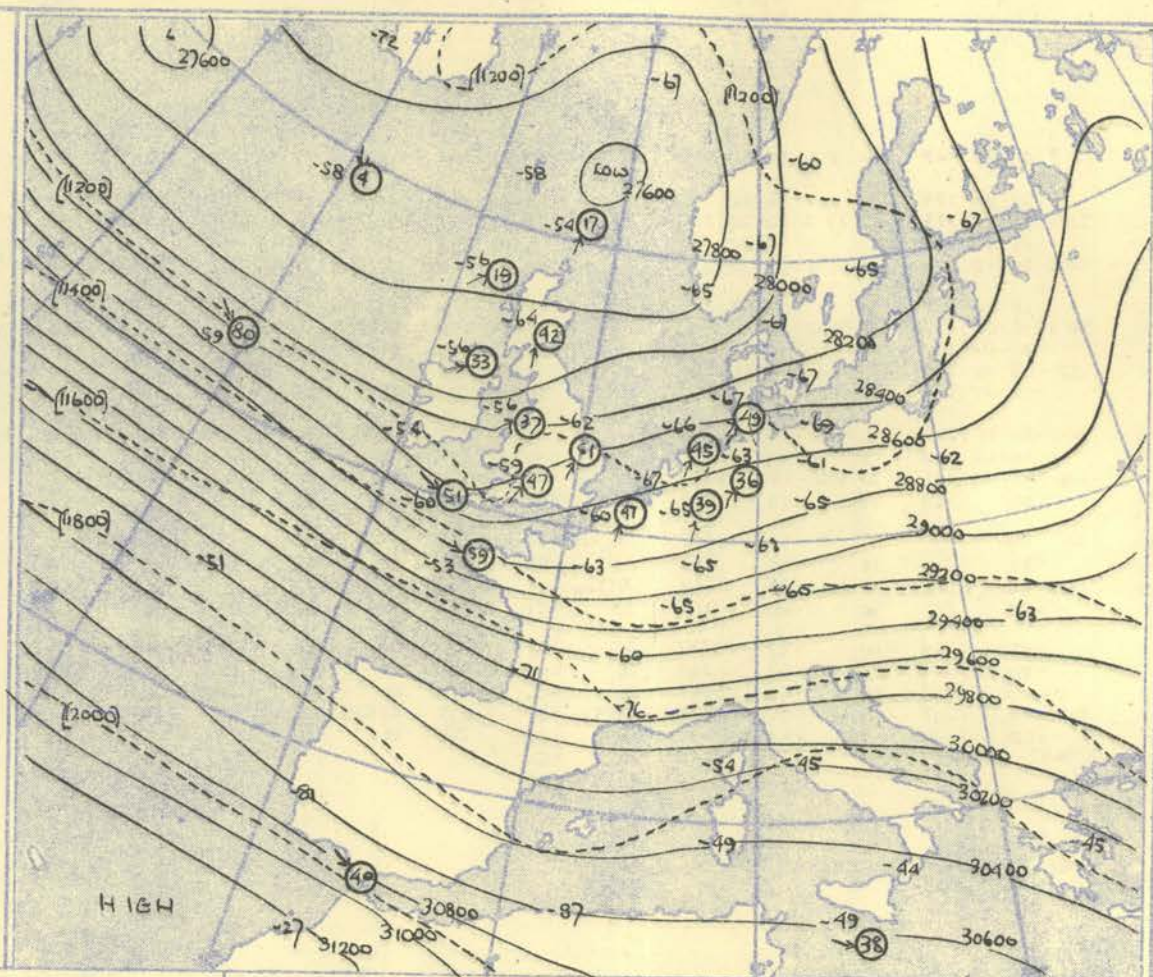
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h G.M.T.



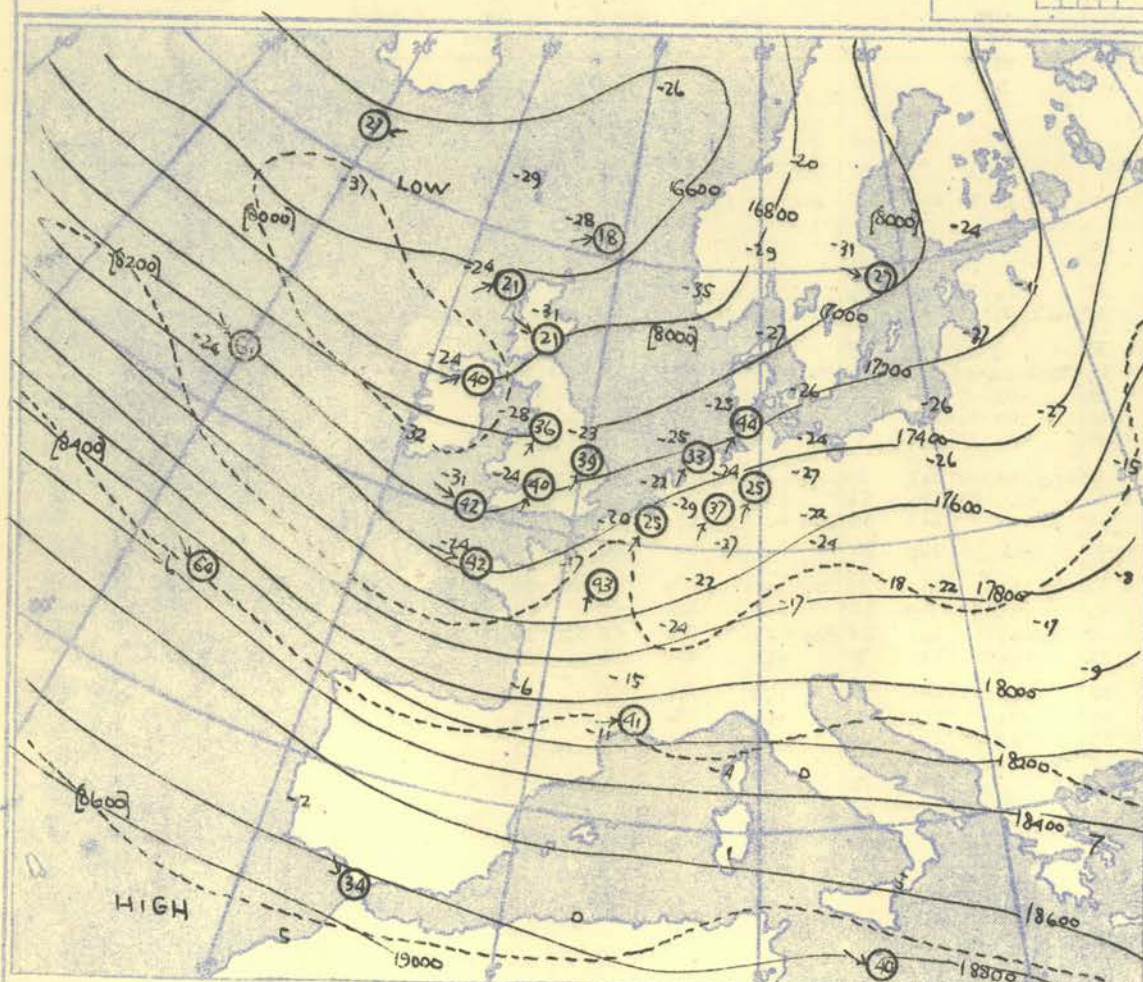
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

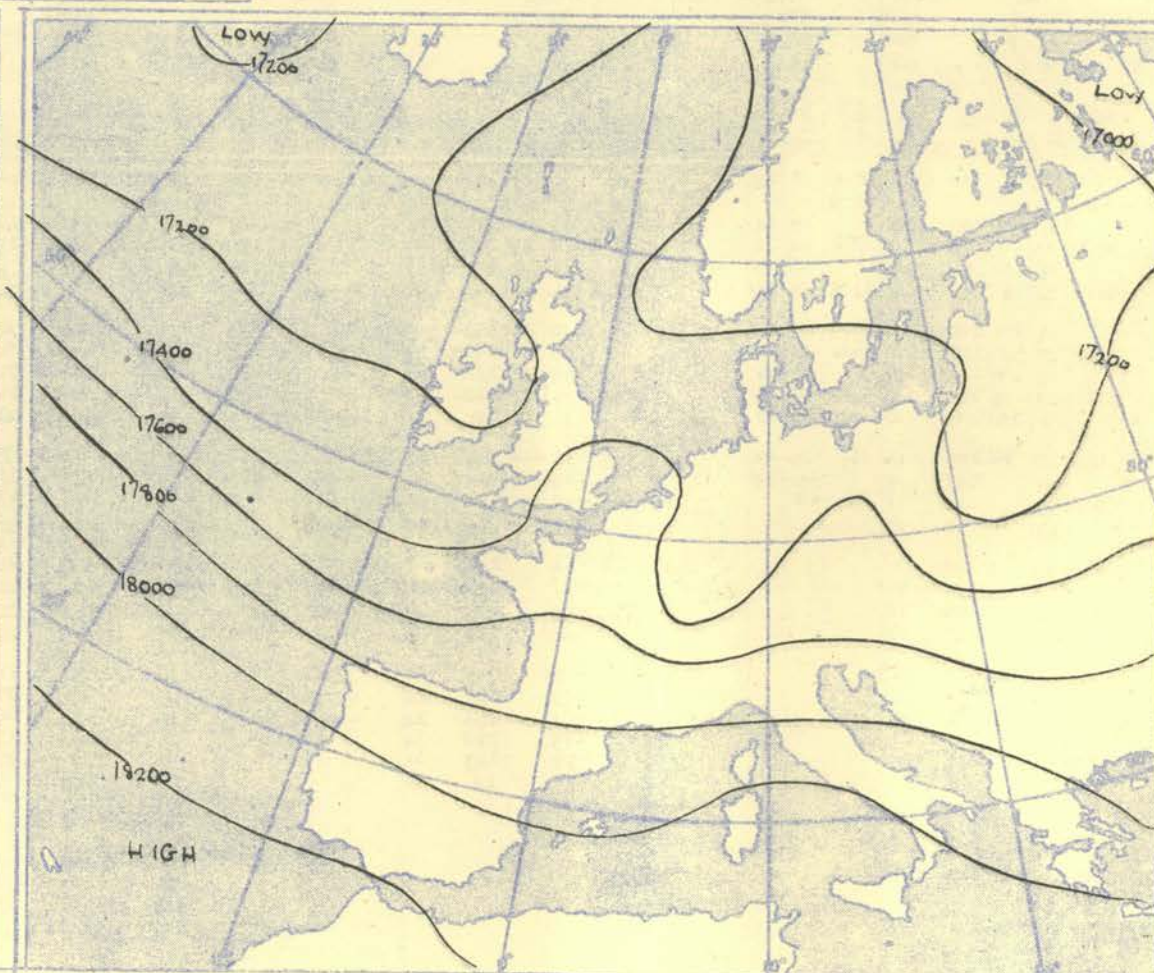
100 80 60 40 20 10 0 knots



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 300-500 mb.



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



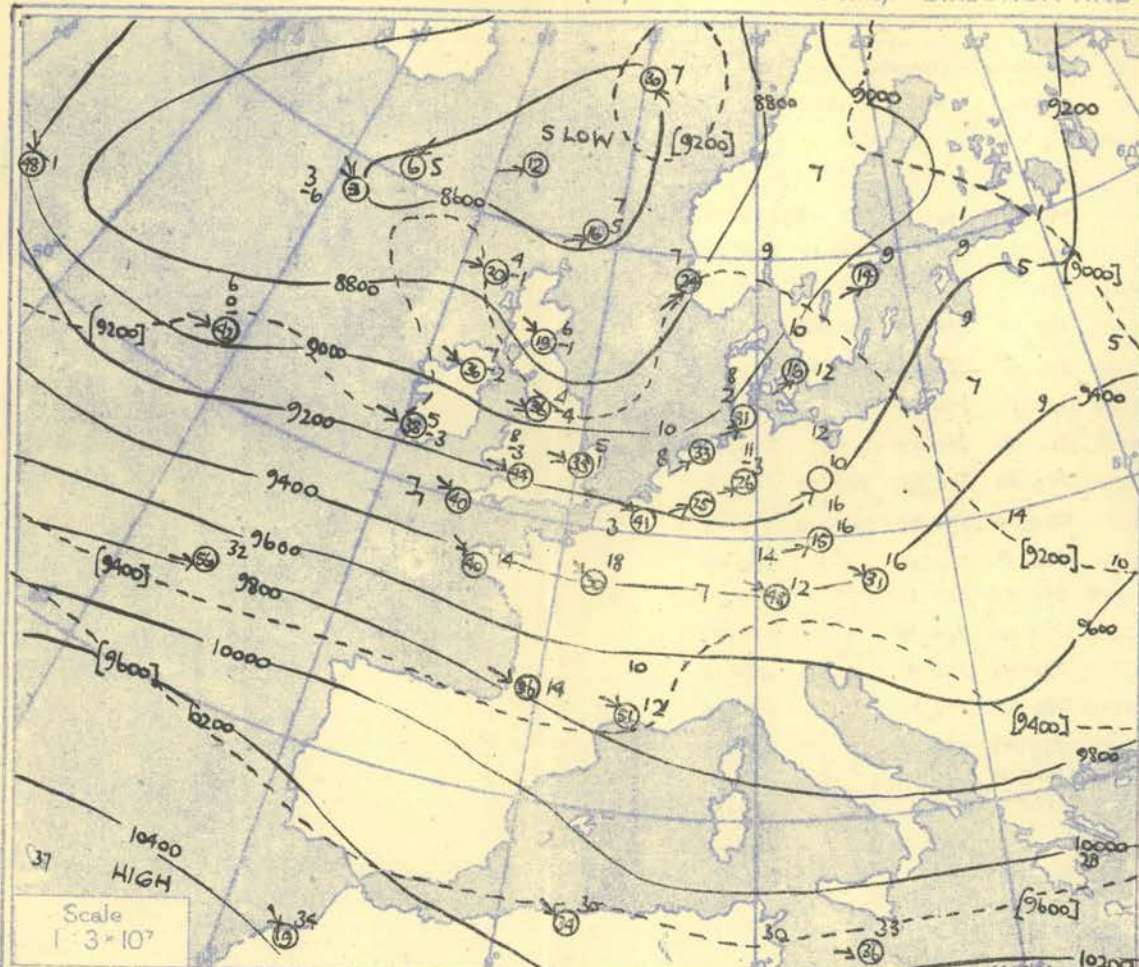
Isopleths of Thickness 500-1000mb.

DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

NEPHOSCOPE OBSERVATIONS

Ship	WEATHER EXPLORER				WEATHER EXPLORER				WEATHER EXPLORER				WEATHER EXPLORER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				Ship
Lat/Long	52.7N 20.2W				52.8N 20.5W				52.8N 20.5W				52.9N 20.2W				59.0N 19.1W				59.0N 18.9W				59.0N 18.7W				59.0N 19.0W				Lat/Long
Time	03L G.M.T.				09L G.M.T.				15L G.M.T.				21L G.M.T.				03L G.M.T.				09L G.M.T.				15L G.M.T.				21L G.M.T.				G.M.T.
M.S.L.	mb				mb				mb				mb				mb				mb				mb				mb				mb
Surf	mb				mb				mb				mb				mb				mb				mb				mb				mb
Freezing	mb				mb				mb				mb				mb				mb				mb				mb				mb
Pressure	996	996	996	950	994	994	994	990	989	989	989	989	986	986	986	985	979	979	979	930	979	979	979	920	979	979	979	920	978	978	935		
Height	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	
Temp.	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	
Dew	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F	
Wind	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	
Vel.	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	
Surf	40	31	280	31	43	32	260	26	39	31	270	23	37	30	255	13	39	28	260	09	40	28	280	13	40	37	280	12	37	31	270	10	
1000	-10	32	28	293	44	38	30	261	30	36	30	283	22	35	27	280	24																

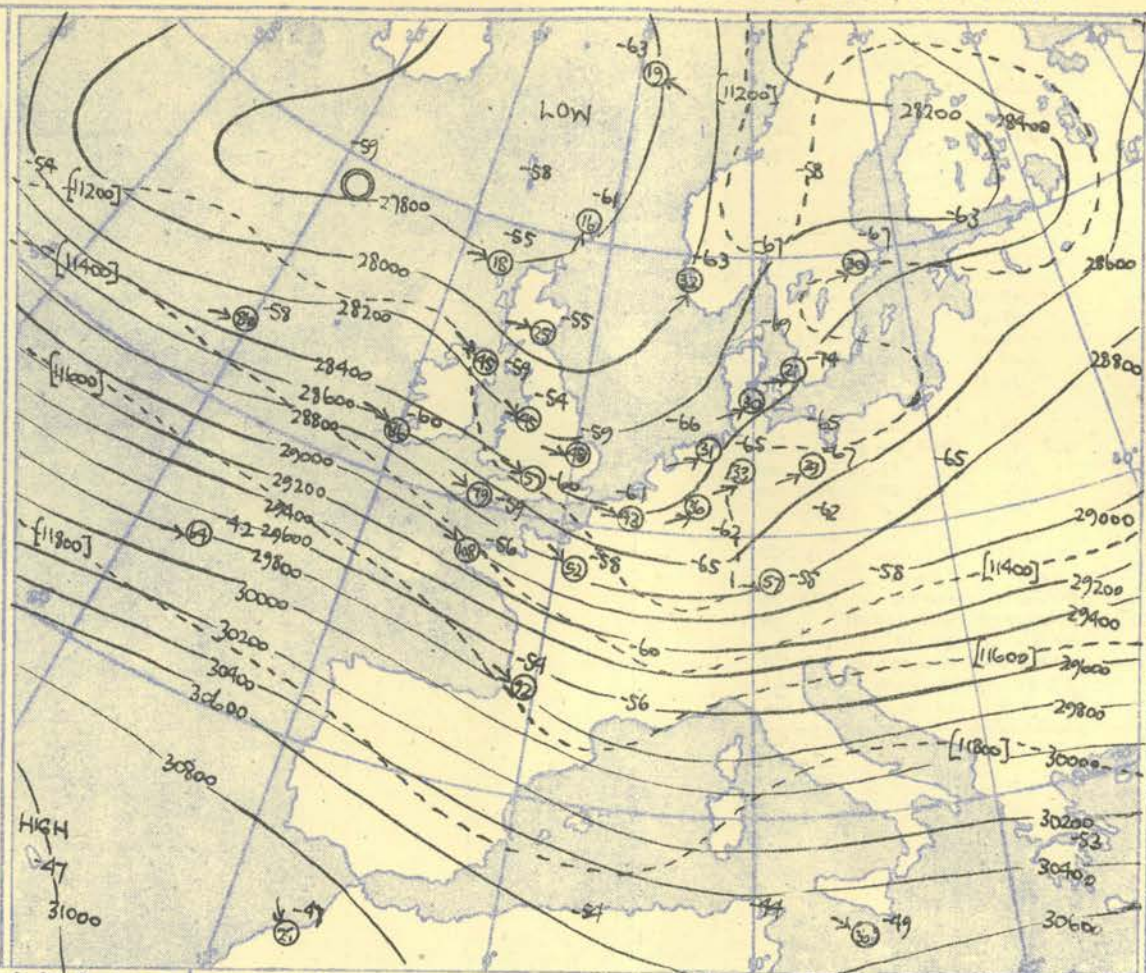
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point) DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15h G.M.T.



The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

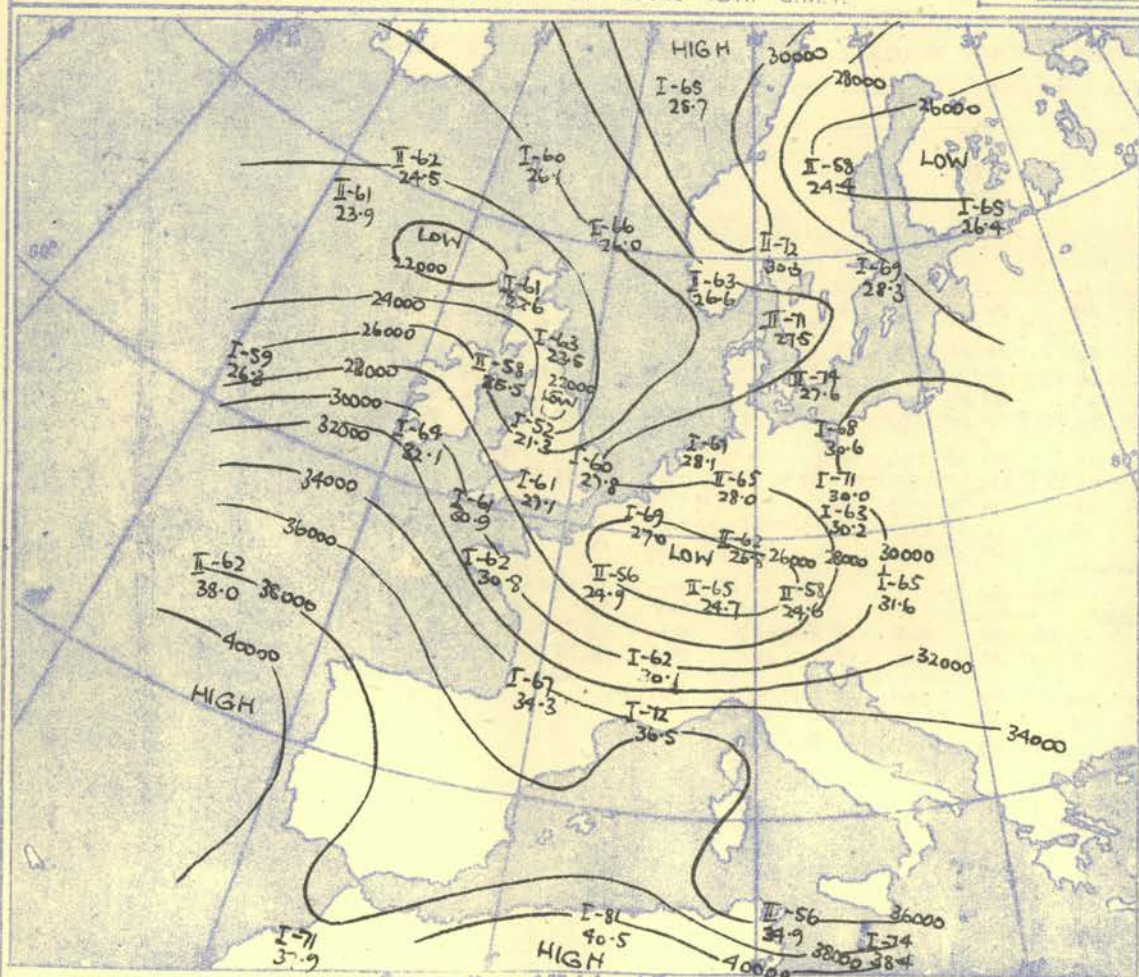
Gradient Wind Scale for Contours at intervals of 200 ft. at Lat. $52\frac{1}{2}^\circ$ N.

100 80 60 40 20 10 knots



The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

TROPOPAUSE CHART at about 15h. G.M.T.



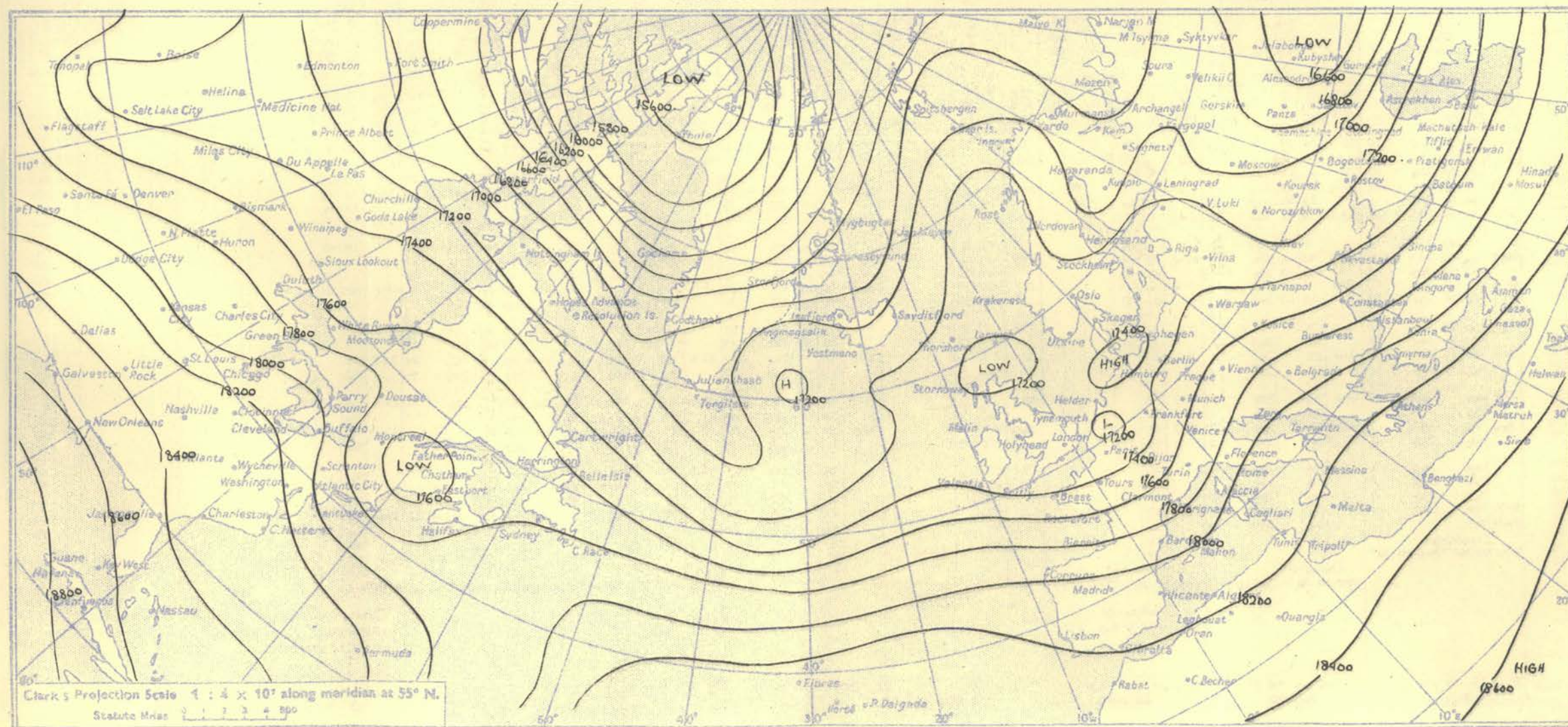
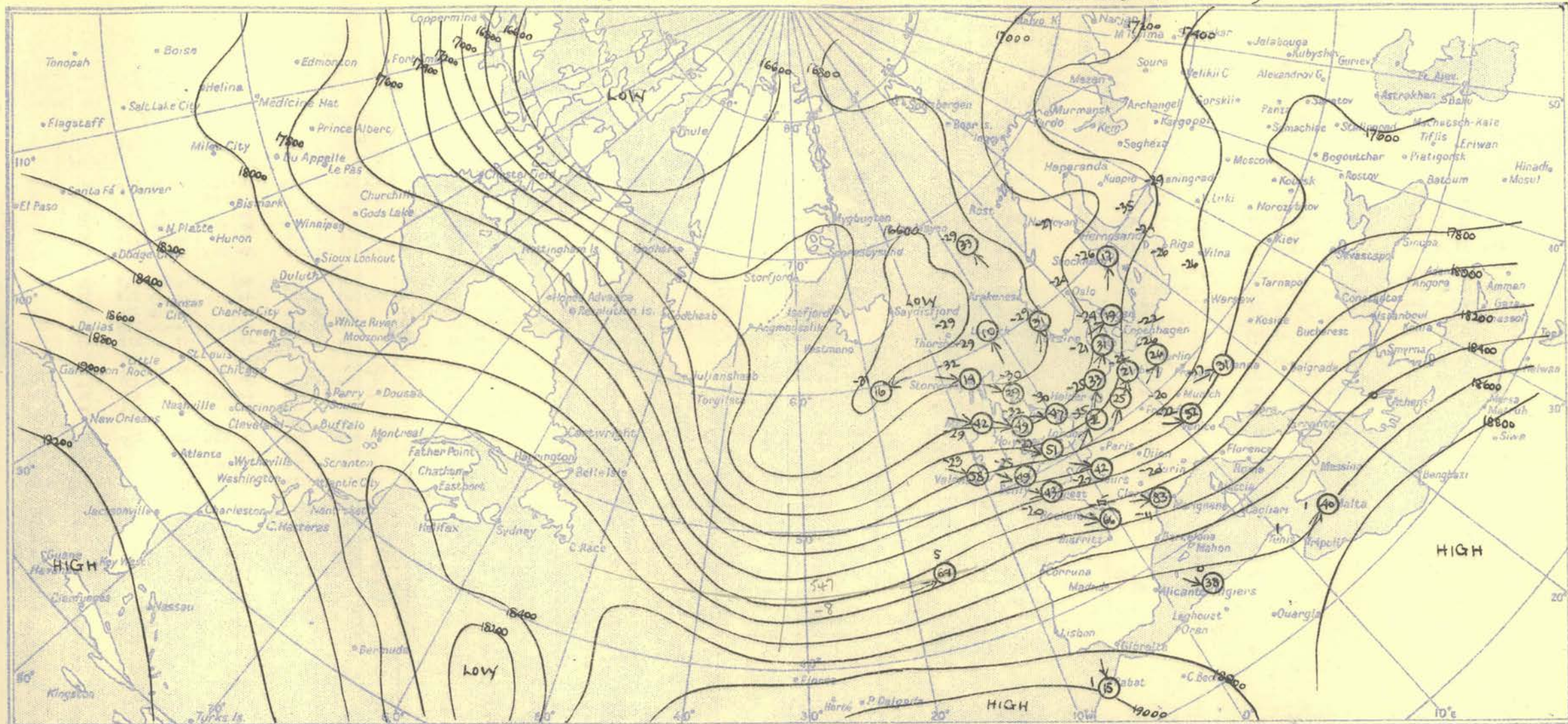
Contour lines of Height of Tropopause.
Temperature of Tropopause.

NOTES ON THE AEROLOGICAL SITUATION.

Little general change.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

Station

Time
M.S.L.
Surf
Pressure

LERWICK

ISL. G.M.T.
978.0 mb
968.0 mb
926

STORNOWAY

ISL. G.M.T.
980.8 mb
979.2 mb
918

LEUCHARS

ISL. G.M.T.
981.0 mb
981.9 mb
930

ALDERGROVE

ISL. G.M.T.
989.1 mb
980.3 mb
920

LIVERPOOL

ISL. G.M.T.
991.5 mb
989.4 mb
910

DOWNHAM MARKET

ISL. G.M.T.
994.2 mb
989.4 mb
896

LARKHILL

ISL. G.M.T.
981.3 mb
997.3 mb
892

CAMBORNE

ISL. G.M.T.
1002.1 mb
991.3 mb
905

VALENTIA

ISL. G.M.T.
997.9 mb
997 mb
900

STATION

Time
M.S.L.
Surf
Pressure

Pressure
mb

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

Temp.
°F.

Dew
°F.

Wind
Dir. Vel.
knots

Height
ft./100

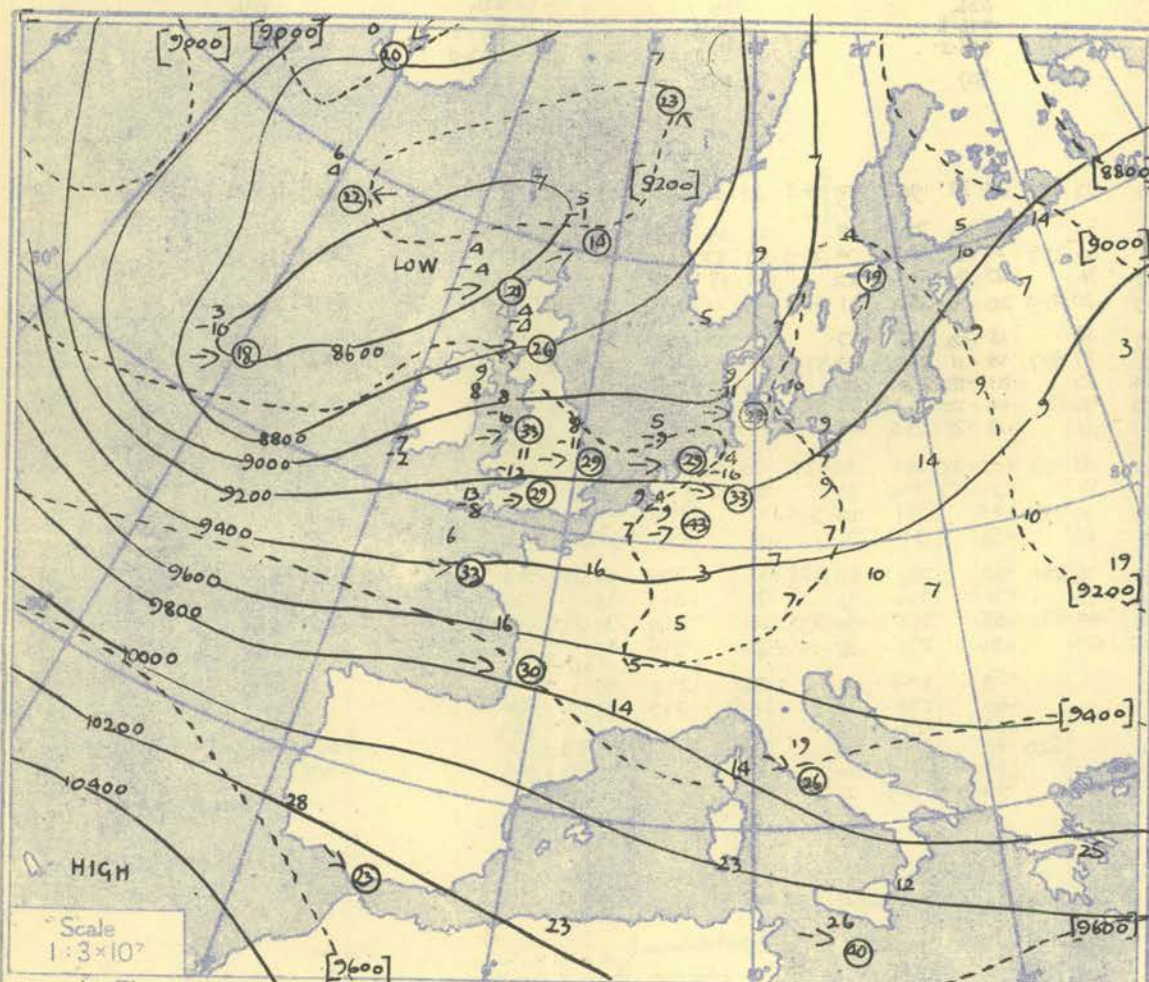
Temp.

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																												
Pressure	Time	03h			G.M.T.	03h			G.M.T.	03h			G.M.T.	03h			G.M.T.	03h			G.M.T.	03h			G.M.T.	03h			G.M.T.	03h			G.M.T.	Time																																																															
	M.S.L.	982.1			mb	982.8			mb	987.8			mb	987.5			mb	994.1			mb	993.8			mb	1000.3			mb	997.5			mb	M.S.L.																																																															
	Surf	972.1			mb	981.2			mb	986.9			mb	977.9			mb	992.0			mb	994.2			mb	983.7			mb	987.0			mb	Surf																																																															
Freezing	923				923				943				930				911				907				889				865				908				908				Freezing																																																								
Pressure	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Pressure																																																																
mb	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	mb																																																																
Surf	027	33	33	290	07	00.4	35	32	230	08	00.2	37	34	240	09	02.6	36	36			01.2	34	33	190	09	04.4	34	33	240	08	02.9	45	41	Surf																																																															
1000	4.8				4.6				3.3				3.3				3.3				3.3				3.3				3.3				1000																																																																
950		33	32	230	19	35	32	218	17	35	32	256	31	34	30		35	29	219	22	36	33	246	25	38	34	227	27	42	38			950																																																																
900	22.9	30	28	227	20	23.2	29	26	240	20	24.4	27	26	254	31	24.5	30	26		26.8	31	25	236	30	27.5	31	23	257	24	27.9	33	27	235	31	21.7	36	33	900																																																											
850		24	19	226	20	22	18	246	25	24	20	254	33	28	20		25	20	261	22	28	18	240	31	28	18	240	31	28	18	240	31	28	18	240	31	28	850																																																											
800	53.3	18	11	226	20	53.5	17	13	246	26	54.9	17	10	254	33	58.0	19	15		56.9	20	12	239	30	57.9	20	06	256	21	58.5	22	11	245	33	58.6	26	15	800																																																											
750		11	04	222	20		11	06	244	26		11	03	256	31		15	12		14	01	239	33		15	02	256	27		15	04	251	33		21	05	750																																																												
700	86.8	05	01	213	14	87.0	04	04	240	21	88.3	04	04	256	26	88.8	09	05		90.7	03	10	242	33	91.7	08	11	261	29	92.3	11	12	257	29	92.8	13	08	700																																																											
650		03	13	201	10		03	13	240	20		05	14	257	21		03	01		128	01	15	244	32		01	15	270	32		06	19	273	20		07	18	650																																																											
600	124	13	19	208	10	125	12	24	254	19	126	14	22	263	21	127	04	12		128	07	22	252	26	130	06	20	273	37	131	01	23	280	36		00	28	600																																																											
550		23	28	219	08		22	38	244	20		22	36	273	21		13	25		128	16	27	261	31		13	28	285	40		12	28	280	41		09	39	550																																																											
500	167	34	40	215	08	167	31	45	245	22	168	31	38	275	24	170	25	38		172	25	33	262	43	173	23	38	291	50	174	20	36	275	51	175	18	50	500																																																											
450		45		193	07		41		248	27		43		267	20		35	52			35	44	266	57		34	47	290	58		31	47	276	55		28	56	450																																																											
400	216	54		113	08	217	51		252	32	218	56		249	29	221	48			222	46		267	74	224	44		281	64	225	42		274	71	226	38	58	400																																																											
350		62		147	07		61		254	33		64		239	39		58				58			271	83		52		234	73		52		274	84		53	350																																																											
300	278	58		225	13	278	62		252	27	279	67		239	42	282	62			284	64		278	76	286	63		281	82	288	63		275	94	289	63	300																																																												
250		52		250	17		56		251	25		54		246	29		56				67		266	86		71		276	72		71		271	83		74	250																																																												
200	366	51		233	20	366	50		252	25	366	54		260	26	370	48			370	60		268	44	372	55		285	40	373	60		269	51	373	63	200																																																												
170		51		244	22		54		238	25		54		253	31						60		265	47		56		271	38		56		274	49		62	170																																																												
150		51		237	19		56		236	25		53		253	29						59		274	31		56		272	42		56		272	42		60	150																																																												
130		54		240	19		56		247	27		59		264	27						60		278	35		61		278	35		61		278	35		65	130																																																												
110		54		231	22		53		267	23		60		275	29						63		276	42		63		276	42		63		276	42		67	110																																																												
100	516	55		225	22	515	55		254	20		60		277	25						64		258	30		64		258	30		64		258	30		67	100																																																												
90		54					59		235	19		59		265	18						66		259	27				259	27				259	27			90																																																												
80							58		242	17		58																										80																																																											
70							58					58																										70																																																											
60							58					58																										60																																																											
Isothermal				972 - 932 mb 33°				Inversion				981 mb 35° - 961 mb 36°				Inversion				900 mb 27° - 889 mb 28°				Isothermal				355 - 343 mb - 58°				Inversion				994 mb 34° - 972 mb 36°				Inversion				984 mb 34° - 960 mb 39°				Isothermal				763 - 746 mb 15°				714 - 700 " 11°				Isothermal				241 mb - 76°				I 315 mb - 58°				27,200'				I 315 mb - 58°				27,200'				I 315 mb - 58°				27,200'				I 315 mb - 58°				27,200'	
Tropopause	I 355 mb - 62°				I 306 mb - 65°				I 302 mb - 68°				I 356 mb - 58°				I 288 mb - 65°				I 282 mb - 67°				I 250 mb - 71°				I 256 mb - 72°				I 241 mb - 76°				I 315 mb - 58°				Tropopause																																																								
24,200'				27,400'				21,700'				24,600'				67,33,000'				32,400'				32,200'				32,200'				27,200'				27,200'				Tropopause																																																									
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																												
Pressure	Time	09h			G.M.T.	09h			G.M.T.	09h			G.M.T.	09h			G.M.T.	09h			G.M.T.	09h			G.M.T.	09h			G.M.T.	09h			G.M.T.	Time																																																															
	M.S.L.	981.8			mb	979.9			mb	982.3			mb	980.6			mb	982.8			mb	991.6			mb	990.5			mb	988.3			mb	M.S.L.																																																															
	Surf	971.8			mb	978.3			mb	981.4			mb	971.5			mb	980.7			mb	991.6			mb	994.6			mb	971.8			mb	Surf																																																															
Freezing	921				910				935				948				89				874				860				850				850				Freezing																																																												
Pressure	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Height	Temp.	Dew	Wind	Pressure																																																																
mb	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	Dir. Vel. knots	mb																																																																
Surf	02.7	34	33	205	09	00.4	37	34					00.2	37	36	150	15	02.6	35	33	260	08	00.6	37	36	180	08	01.2	39	35	180	15	04.4	44	41	220	22	02.9	45	45	203	12	Surf																																																						
1000	4.9				5.4								8.0					5.1					4.6					2.2				2.5				3.2					1000																																																								
950		36	33	200	21		37	34					34	33	142	23		32	29	260	15		34	33	194	20		39	34	191	36		42	40	195	36		43	43	227	33	950																																																							
900	22.8	29	24	200	16	22.5	31	28					23.0	29	29	152	46	22.7	30	25	260	18	23.3	33	31	230	28	25.9	36	30	217	37	28.8	34	32	207	44	25.2	38																																																										

Tuesday 20th February, 1951.

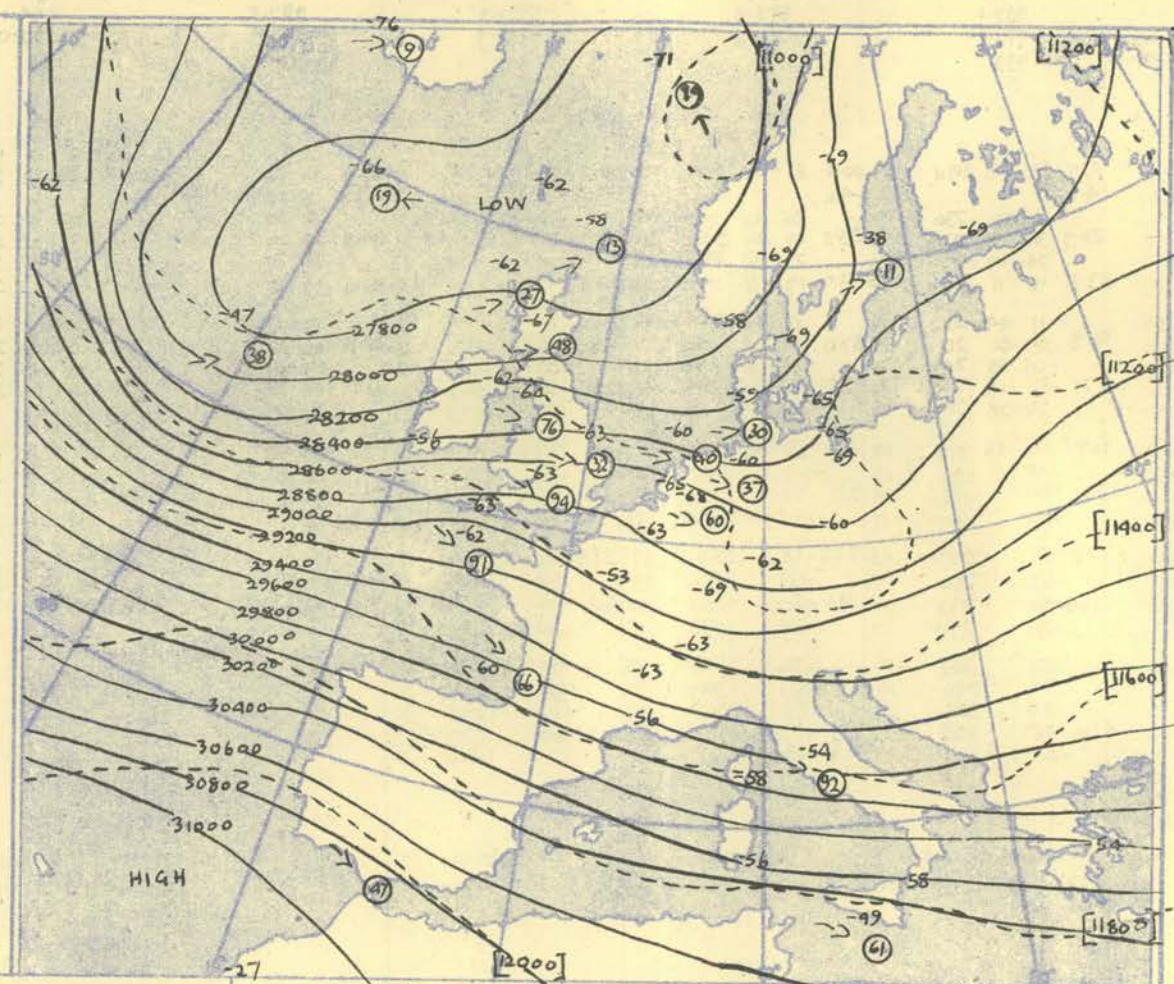
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h G.M.T.



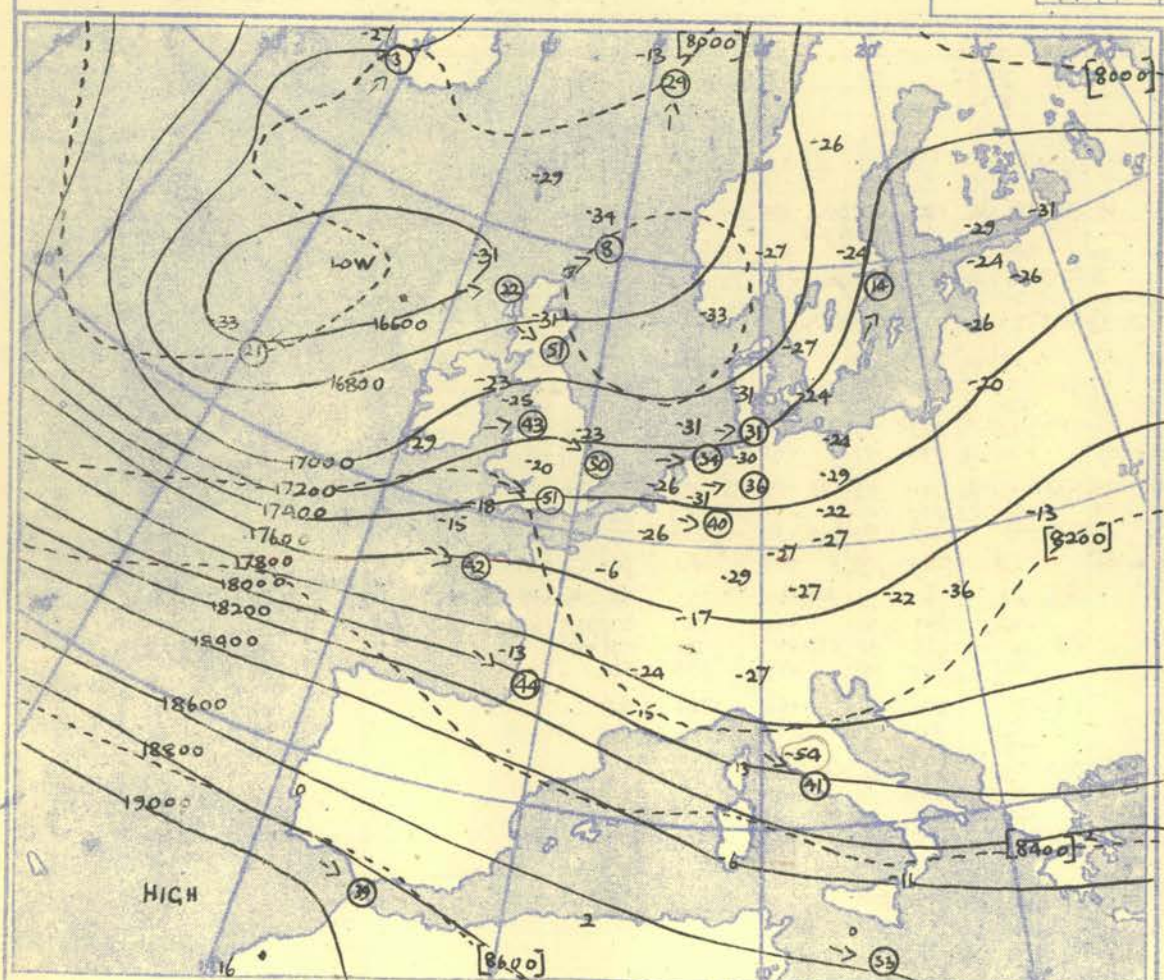
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient-Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

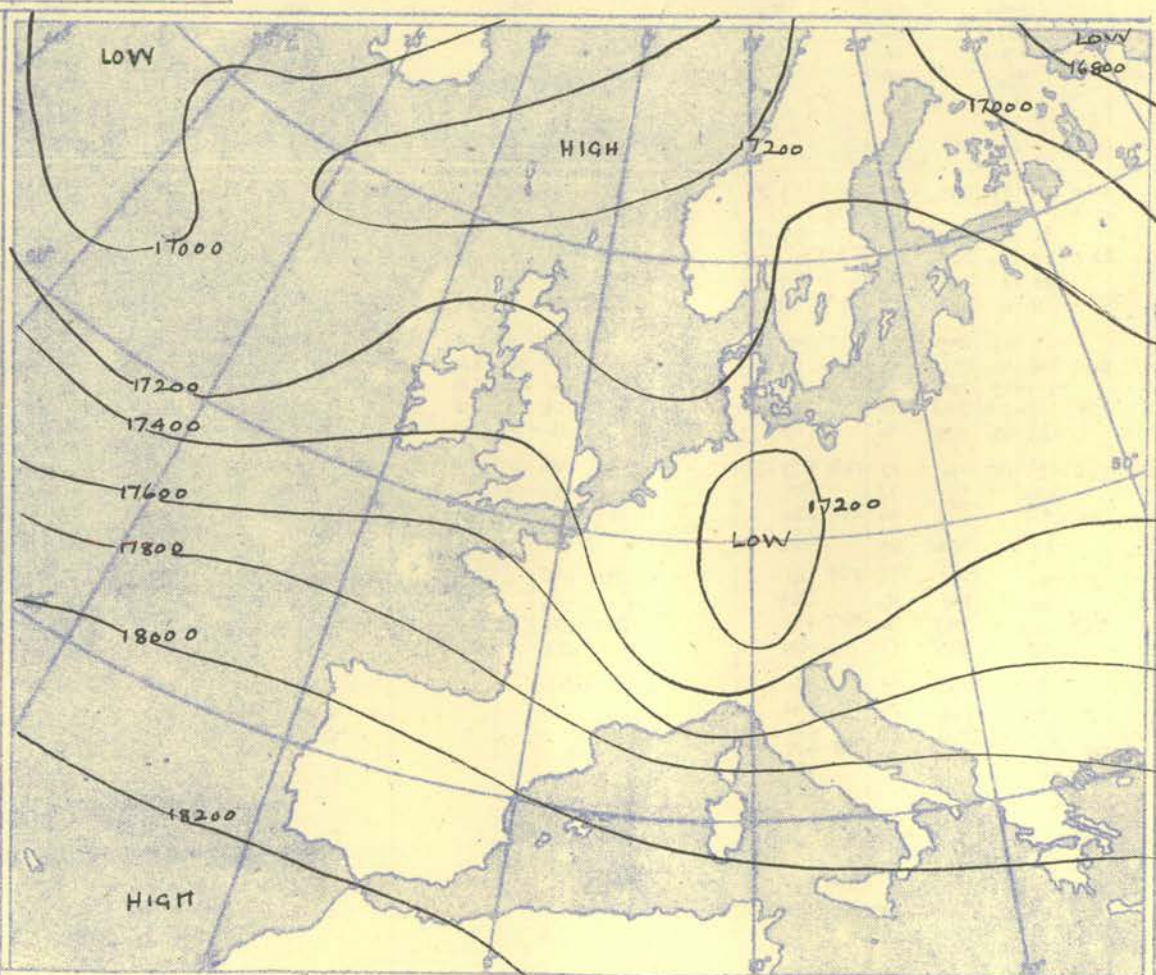
100 80 60 40 20 10 5 knots



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb.



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



Isopleths of Thickness 500-1000mb.

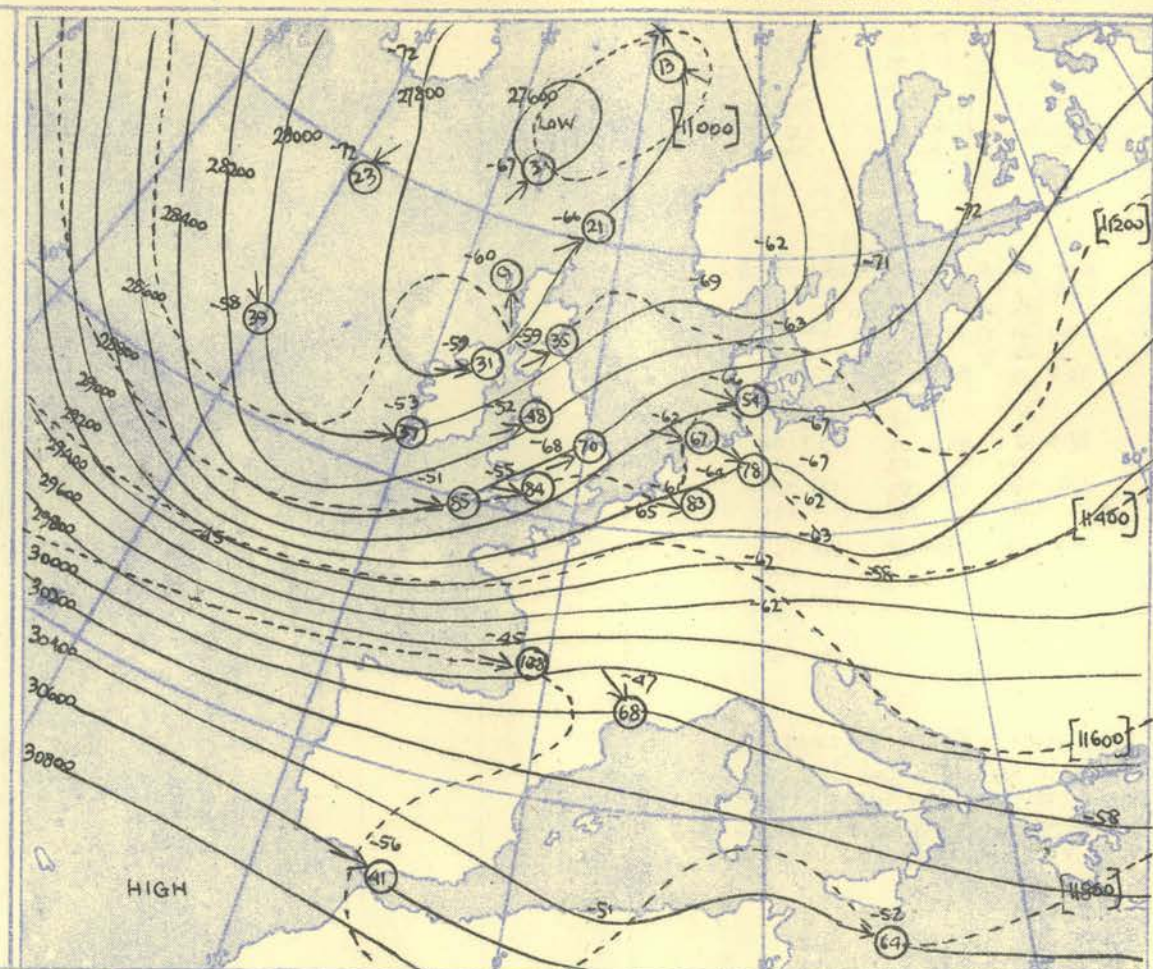
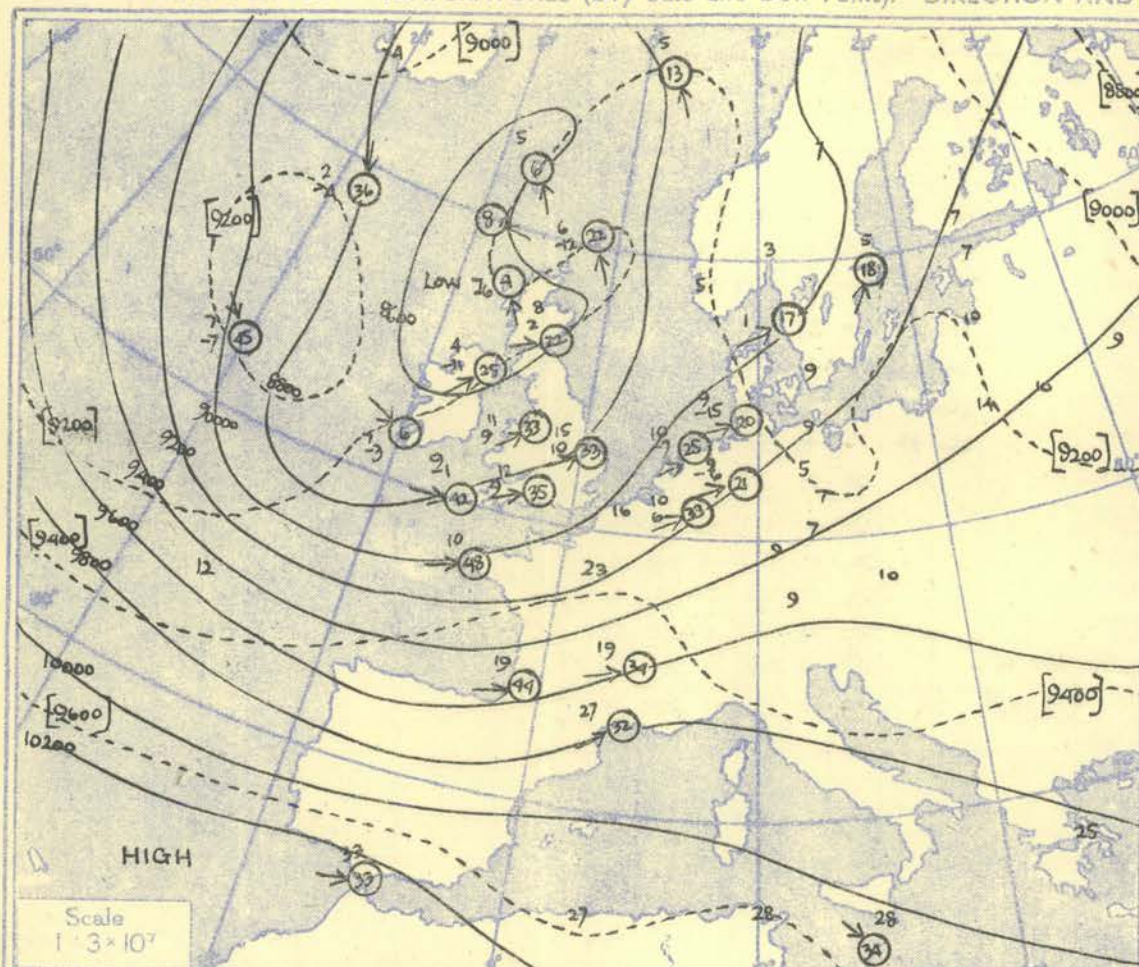
AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY															DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.														
Time			Time			Time			Time			Time			Time			Time			Time			Time			Time		
M.S.L.			M.S.L.			M.S.L.			M.S.L.			M.S.L.			M.S.L.			M.S.L.			M.S.L.			M.S.L.			M.S.L.		
Surf			Surf			Surf			Surf			Surf			Surf			Surf			Surf			Surf			Surf		
Pressing			Pressing			Pressing			Pressing			Pressing			Pressing			Pressing			Pressing			Pressing			Pressing		
48-1N 17-0W			47-4N 12-2W			51-8N 10-4E																							
12h			12h			12h																							
990.7 mb			985.6 mb			990 mb																							
983.5 mb			982.0 mb			979 mb																							
930 mb			890 mb			700 mb																							
Pressure			Pressure			Pressure			Pressure			Pressure			Pressure			Pressure			Pressure			Pressure			Pressure		
Surf			Surf			Surf			Surf			Surf			Surf			Surf			Surf			Surf			Surf		
1000			1000			1000			1000			1000			1000			1000			1000			1000			1000		
950			950			950			950			950			950			950			950			950			950		
900			900			900			900			900			900			900			900			900			900		
850			850			850			850			850			850			850			850			850			850		
800			800			800			800			800			800			800			800			800			800		
750			750			750			750			750			750			750			750			750			750		
700			700			700			700			700			700			700			700			700			700		
650			650			650			650			650			650			650			650			650			650		
600			600			600			600			600			600			600			600			600			600		
550			550			550			550			550			550			550			550			550			550		
500			500			500			500			500			500			500			500			500			500		
450			450			450			450			450			450			450			450			450			450		
400			400			400			400			400			400			400			400			400			400		
350			350			350			350			350			350			350			350			350			350		
300			300			300			300			300			300			300			300			300			300		
250			250			250			250			250			250			250			250			250			250		
200			200			200			200			200			200			200			200			200			200		
170			170			170			170			170			170			170			170			170			170		
cloud:-			cloud:-			cloud:-																							
5/8 Cu 930-860 mb			7/8 Cu 920-860 mb			7/8 Cu 840-790 mb																							
4/8 Cu 930-840 mb			3/8 Cu 920-860 mb			1/8 As 850-630 mb																							
18 4xs mb			18 4xs mb			18 4xs mb																							

NEPHOSCOPE OBSERVATIONS

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

Ship	WEATHER EXPLORER				WEATHER EXPLORER				WEATHER EXPLORER				WEATHER EXPLORER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				Ship																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Lat/Long	52-9 N 20-0W.				52-8 N 20-0W				52-6 N. 20-0W				52-7 N 20-1W				58-9 N. 18-9W.				59-1 N 18-8 W				59-1 N 18-7 W				59-2 N 18-8 W				Lat/Long																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Pressure	Time	03h.			G.M.T.			09h.			G.M.T.			15h.			G.M.T.			21h.			G.M.T.			03h.			G.M.T.			09h.			G.M.T.			15h.			G.M.T.			21h.			G.M.T.			Time																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	M.S.L.	981			mb			985			mb			987			mb			993			mb			979			mb			981			mb			986			mb			987			mb			M.S.L.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	Surf	981			mb			985			mb			987			mb			993			mb			979			mb			981			mb			986			mb			987			mb			Surf																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	Freezing	950			mb			925			mb			890			mb			905			mb			900			mb			930			mb			900			mb			900			mb			Freezing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Pressure	Height	ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100			ft./100</		

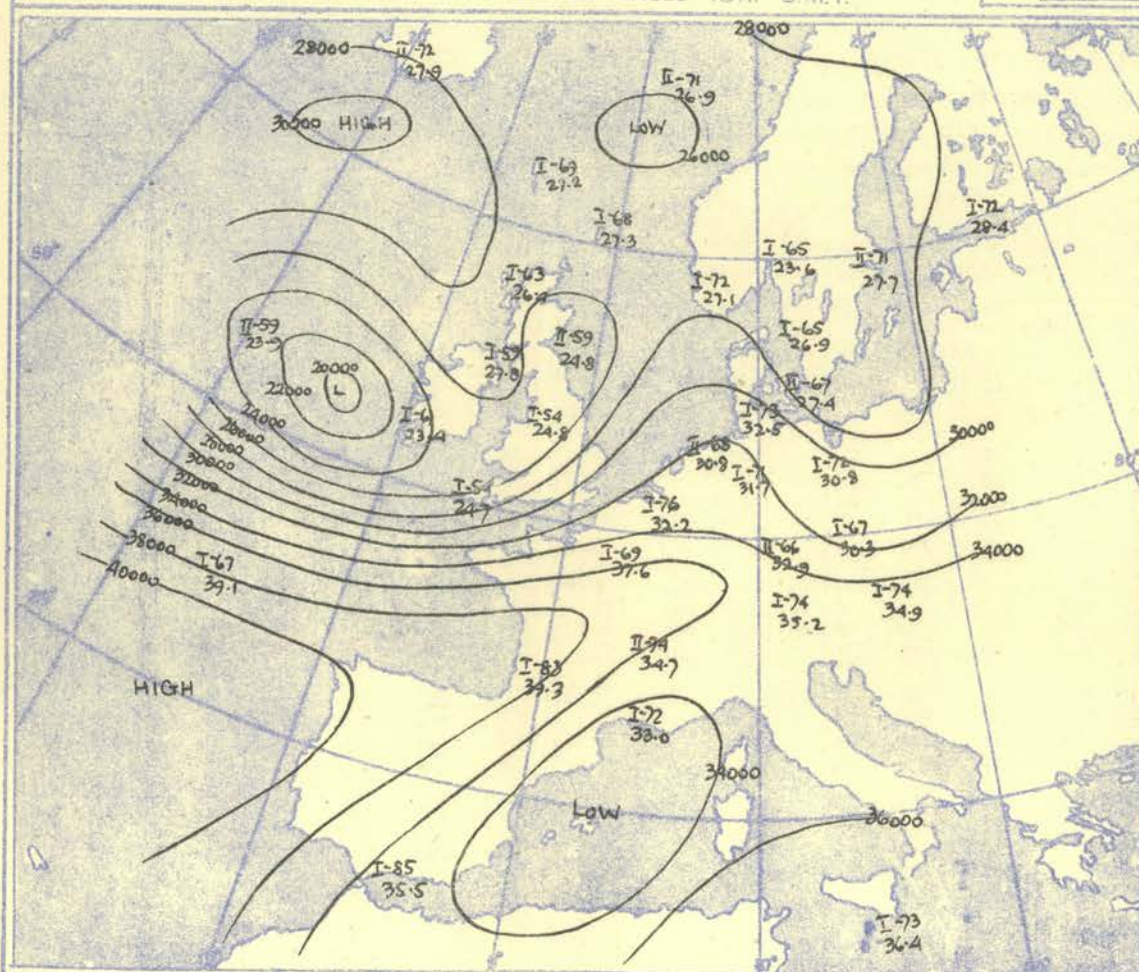
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15 h G.M.T.



Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

100 80 60 40 20 10 0 knots

TROPOPAUSE CHART at about 15h. G.M.T.

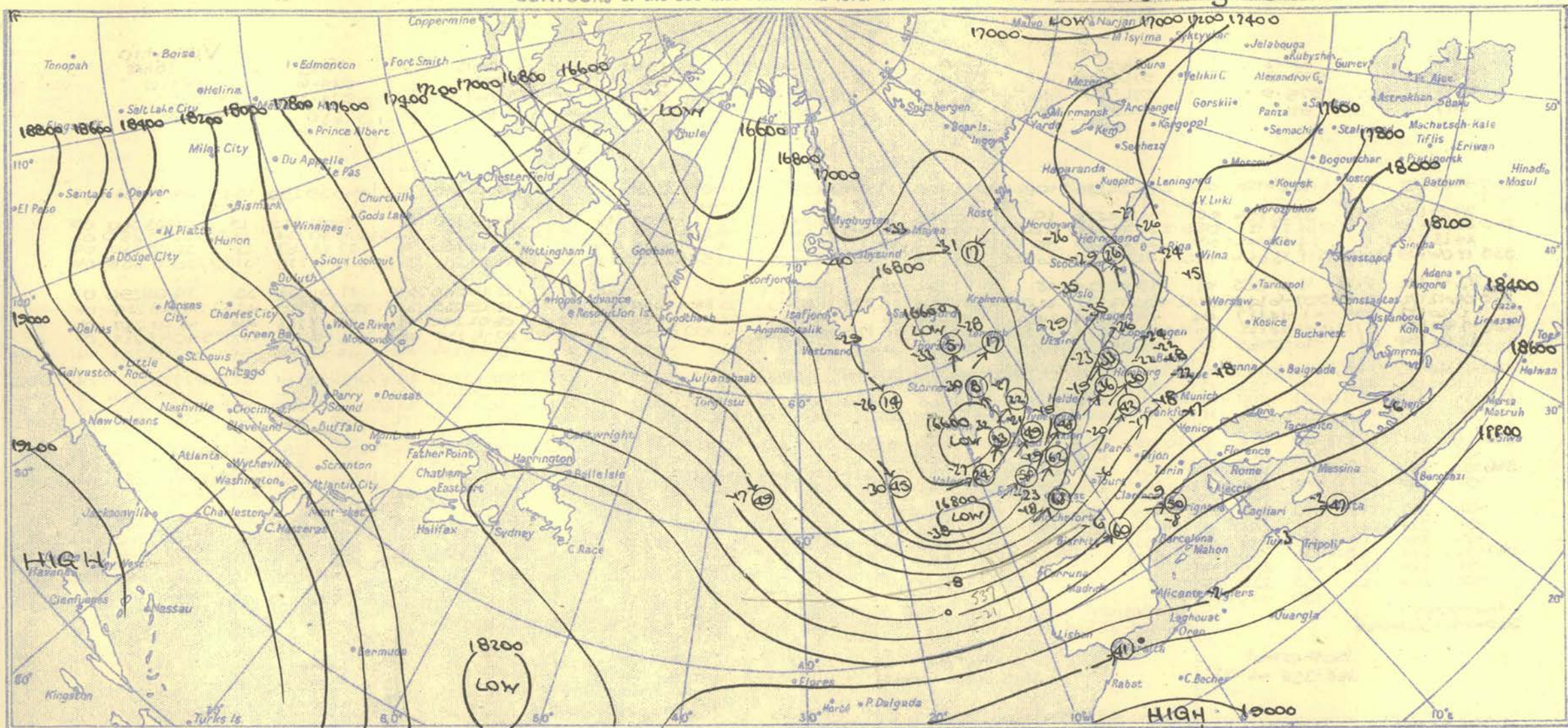


NOTES ON THE AEROLOGICAL SITUATION.

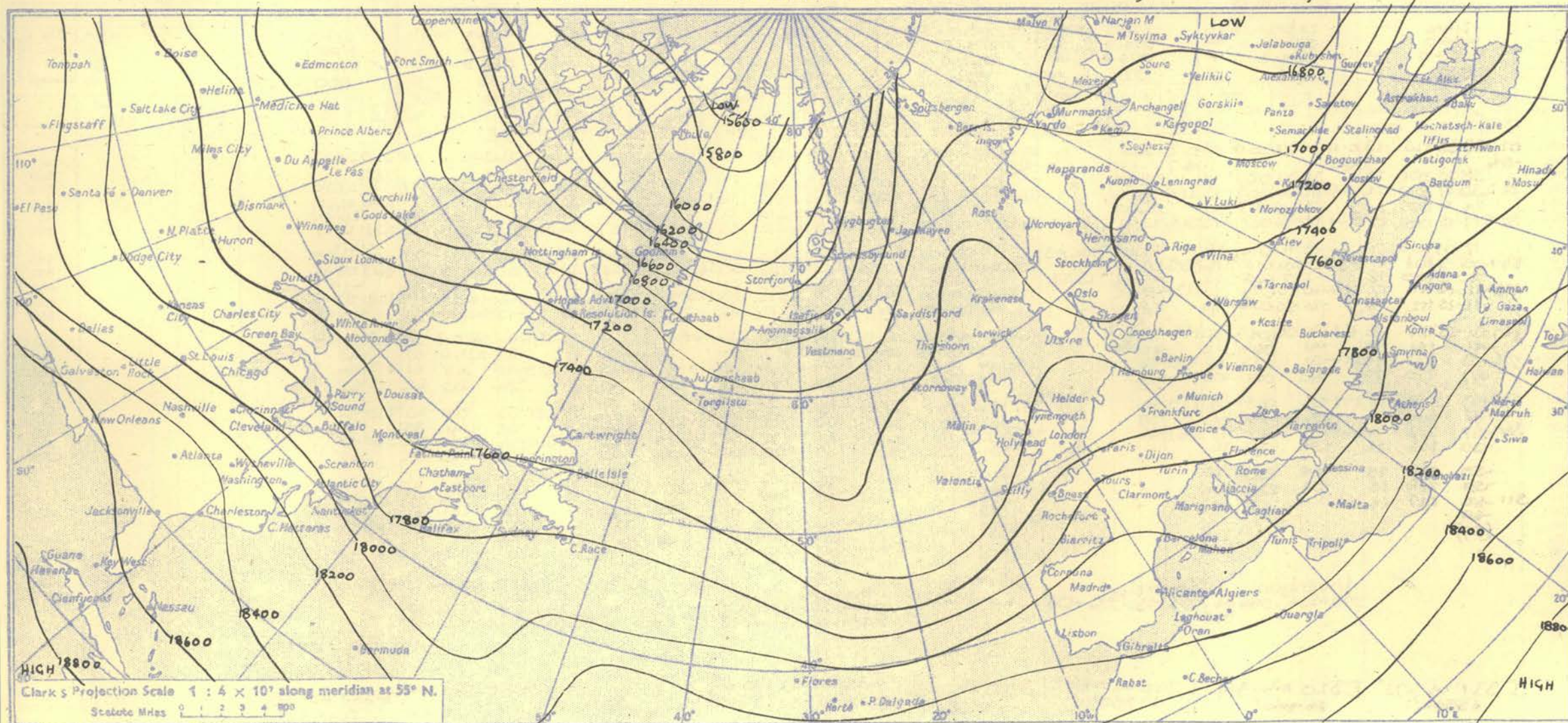
The most marked feature is the considerable warm ridge that formed between longitudes 10° W and 5° E. ahead of a fairly sharp surface polar trough. A certain amount of dynamical warming took place in West Atlantic.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

Meteorological Office, Air Ministry, Kingway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T. Tuesday 20th February 1951



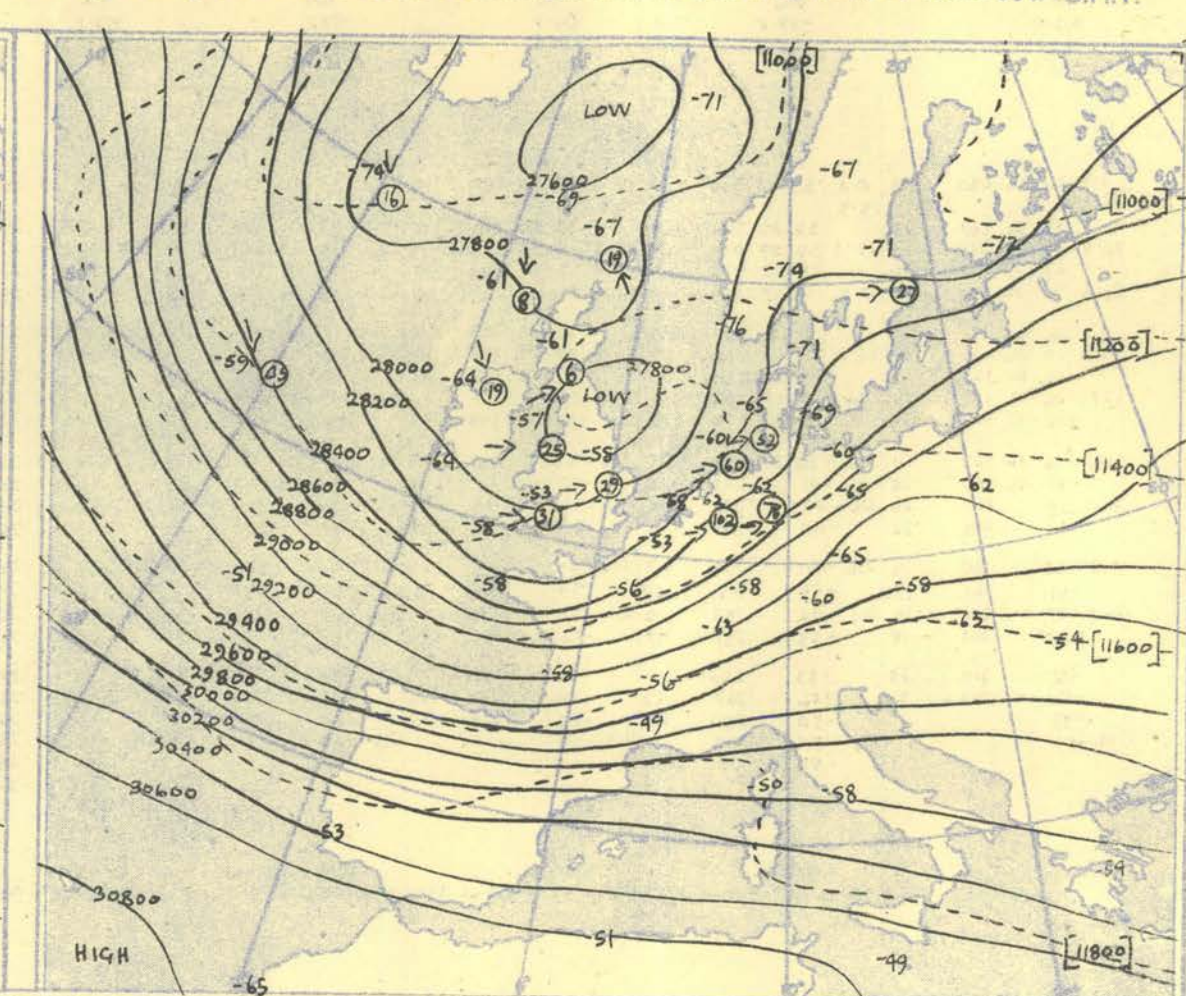
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				Valentia				STATION	
Time M.S.L.	15hrs			G.M.T.	Time M.S.L.	15hrs			G.M.T.	Time M.S.L.	15hrs			G.M.T.	Time M.S.L.	15hrs			G.M.T.	Time M.S.L.	15hrs			G.M.T.	Time M.S.L.	15hrs			G.M.T.	Time M.S.L.	Pressure						
Surf	981.4			mb	971.5			mb	971.6			mb	978.4			mb	978.7			mb	982.3			mb	982.1			mb	984.6			mb	981.0			mb	
Freezing	217			mb	211			mb	220			mb	217			mb	200			mb	206			mb	203			mb	200			mb	209			mb	
Pressure mb	02.7	40.33	18.5	13	0.4	40.36	12.0	05.0	2.38	36.28	10.2	02.6	41.39	27.0	12	0.6	41.39	27.0	12	0.1	45.42	18.0	12	4.4	42.40	27.0	07	02.9	45.39	25.0	13	0.3	44.37	33.3	05		
Height ft./100	5.1	37.29	18.6	21	6.1	37.33	15.6	05	36.34	27.3	10	5.8	37.30	24.5	18	5.8	37.30	24.5	18	4.8	41.35	21.5	30	4.6	40.38	23.6	21	4.6	41.24.9	19	5.2	40.33	26.0	09			
Temp. °F.	22.3	30.23	17.9	21	21.9	31.28	12.8	05.2	31.28	28.0	12.2	2.3	32.31	27.0	15	2.3	32.31	27.0	15	2.3	43.31	21.1	29	2.3	33.31	25.5	24	24.5	30.25.8	24	23.1	33.27	35.0	02			
Dew °F.	24.18	17.7	18	18	24.19	10.2	06	29.23	29.1	14	23	15	24.3	26	26	28	28	27.0	15	20	29	21.6	27	29	23	25.0	24	27	18	26.7	28	31	30.7	20			
Wind Dir. Vel. knots	53.5	18.06	17.9	18	52.3	18	06.6	05	52.6	22.14	25.7	26	52.5	18	06.23.9	23	53.0	24.24	23.8	18	54.3	24.23	22.4	20	54.2	23.20	24.1	28	53.0	23	11	27.6	31	30.6	06		
Temp. °F.	13	2	18.2	14	12	06.55	03	15	12	23.4	18	11	7	23.2	25	18	17	22.8	25	19	15	23.6	38	18	16	24.0	30	17	02	27.4	35	14	05	29.6	07		
Dew °F.	86.9	06.12	17.2	22	85.9	07	6.4.9	04	86.4	08.02	23.7	22	86.0	04.11	22.0	25	87.1	11	09	23.0	23	88.4	15	10	23.5	33	88.2	12	09	23.9	35	88.9	09	1	27.0	42	
Wind Dir. Vel. knots	12.5	7	30.38	07	12.4	11.18	22.2	06	12.4	7	28.23.1	21	12.3	43	24.22.0	25	12.5	4	7	20.9	31	12.7	00	4	21.7	44	12.7	00	6	23.7	45	12.7	6	16	26.6	47	
Dew °F.	18	24	19.8	08	20	23	16.9	08	16	34	23.3	17	21	36	21.6	31	13	17	22.2	40	19	13	21.8	46	19	14	23.3	56	14	25	26.6	54	17	23	24.1	14	
Temp. °F.	16.8	28	44	23.3	17	16.6	30	39	16.5	05	16.7	27	43	23.5	22	16.6	32	44	20.4	33	16.9	21	26	23.0	49	17.1	19	24	21.9	62	17.0	23	28	26.1	58		
Dew °F.	21.8	52	23.0	23	21.6	53	11.0	08	21.8	46	21.2	21	21.6	49	23.5	26	22.0	42	21.7	69	22.2	42	21.7	62	22.1	41	21.7	68	22.1	44	25.9	70	21.9	51	23.6	53	
Wind Dir. Vel. knots	61	22.7	24	24	59	14.6	08	50	08	20.6	26	54	23.3	27	54	22.4	60	55	21.7	67	53	21.7	67	53	22.1	72	54	26.5	74	56	23.8	26	350				
Temp. °F.	27.9	66	22.1	21	27.8	60	16.5	09	28.0	59	22.1	36	27.8	59	24.0	31	28.2	52	22.8	48	28.4	68	21.7	70	28.4	55	24.0	84	28.3	51	25.4	85	28.0	53	25.0	39	
Dew °F.	36.6	52	23.0	20	36.5	51	21.8	20	36.8	51	21.3	25	36.6	49	23.2	27	37.1	48	23.2	43	37.1	53	24.7	31	37.1	58	26.4	54	37.2	52	26.6	60	36.9	43	25.8	44	
Wind Dir. Vel. knots	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Temp. °F.	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Dew °F.	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Wind Dir. Vel. knots	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Temp. °F.	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Dew °F.	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Wind Dir. Vel. knots	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Temp. °F.	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Dew °F.	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Wind Dir. Vel. knots	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Temp. °F.	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Dew °F.	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Wind Dir. Vel. knots	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Temp. °F.	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Dew °F.	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Wind Dir. Vel. knots	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48
Temp. °F.	51	21.9	21	21	50	22.4	24	52	23.4	31	50	24.0	34	48	24.2	36	53	25.1	39	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53	25.3	48	53		

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

[illegible]

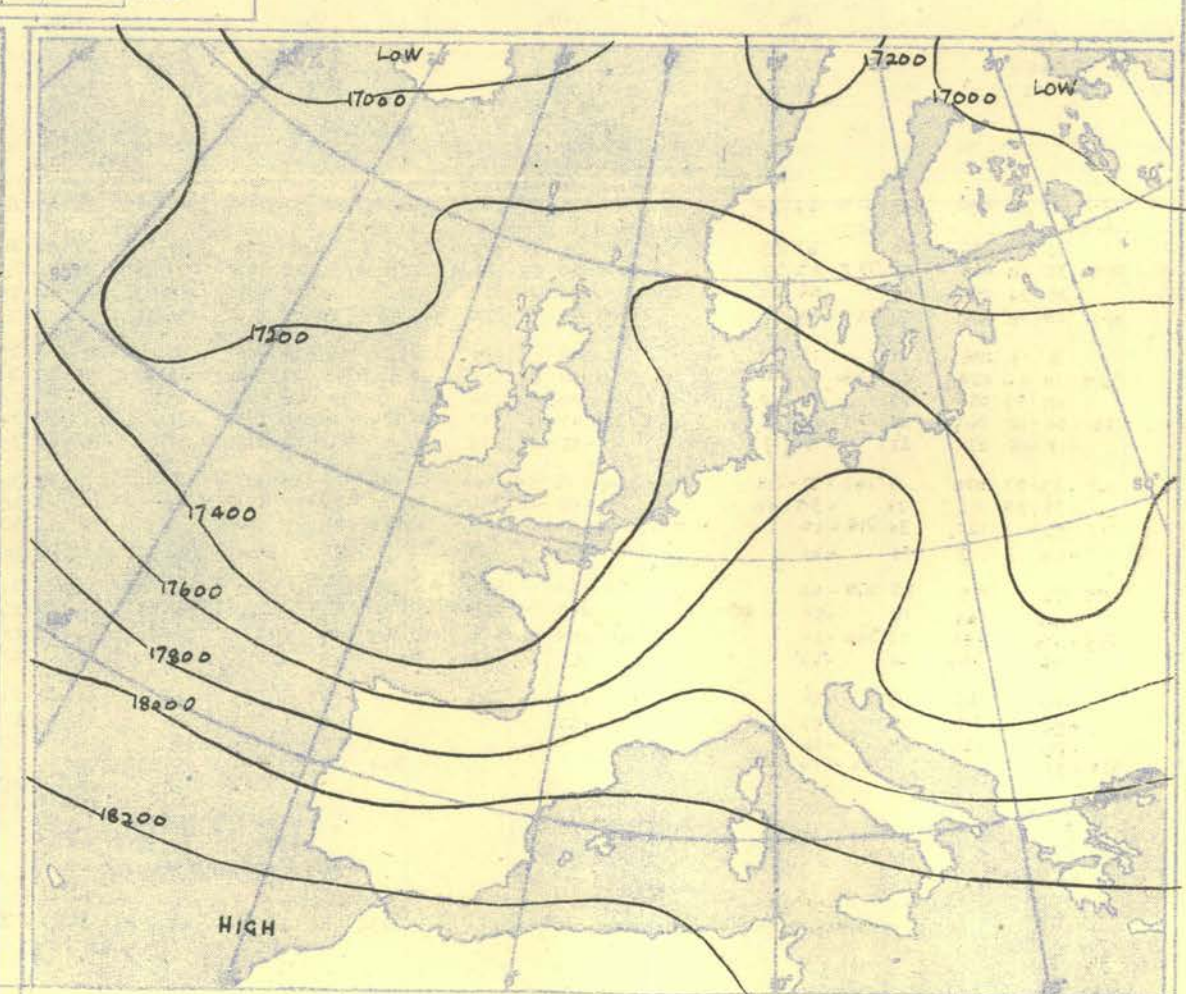
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h. G.M.T.



The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient-Wind Scale for Contours
at intervals of 200 ft. at Lat. $52\frac{1}{2}^{\circ}$ N

The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500 - 300 mb



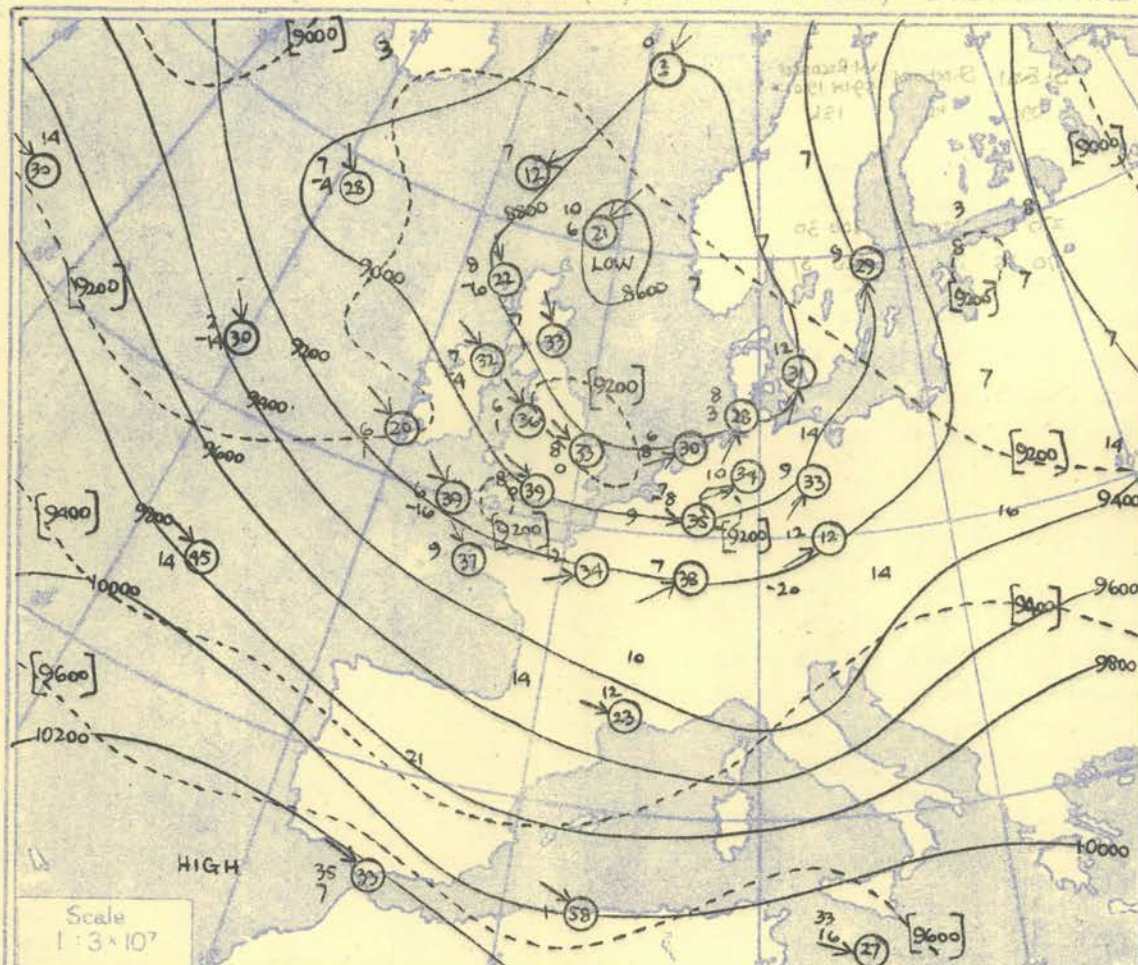
The continuous lines are contour lines of the 500mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.

Isopleths of Thickness 500-1000mb.

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY															DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Pressure		Time		M.S.L.		Surf		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb		mb</	

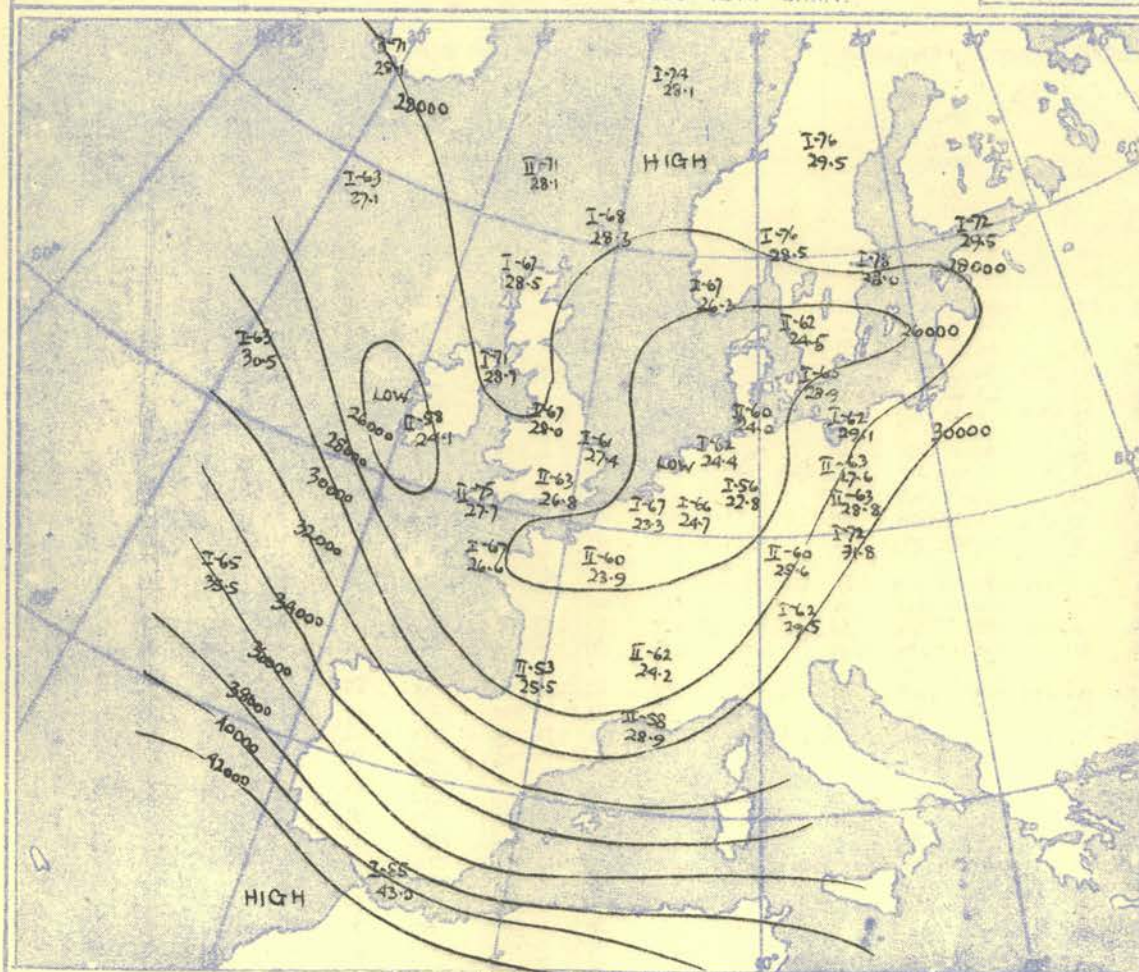
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Ship	WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER EXPLORER				WEATHER EXPLORER				WEATHER EXPLORER				WEATHER EXPLORER				Ship																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Lat/Long	59-1 N 18-9 W.				59-1 N 18-9 W				59-1 N 19-0 W				59-2 N. 19-3 W				52-6 N 20-0 W				52-S N 20-0 W				52-3 N 19-9 W				52-5 N 20-0 W				Lat/Long																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Time M.S.L. Surf Freezing	03h.		G.M.T.		09h.		G.M.T.		15h.		G.M.T.		21h.		G.M.T.		03h.		G.M.T.		09h.		G.M.T.		15h.		G.M.T.		21h.		G.M.T.		Time M.S.L. Surf Freezing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	988	mb	988	mb	989	mb	989	mb	993-3	mb	992	mb	994	mb	996	mb	996	mb	1002	mb	1002	mb	1007	mb	1007	mb	930	mb	930	mb	1009	mb		1009	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb</

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb. levels at about 15h G.M.T.

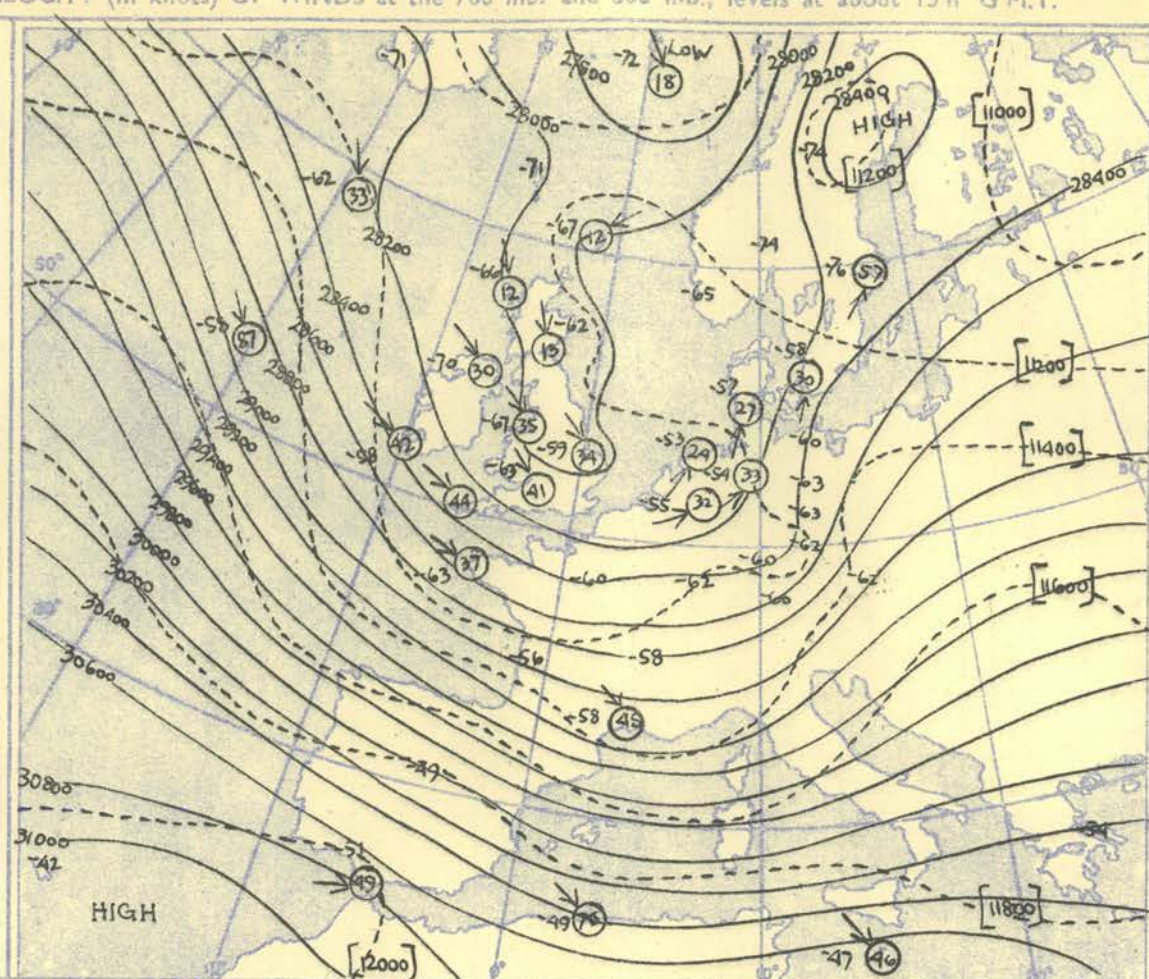


The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

TROPOPAUSE CHART at about 15h. G.M.T.



Contour lines of Height of Tropopause.
Temperature of Tropopause.



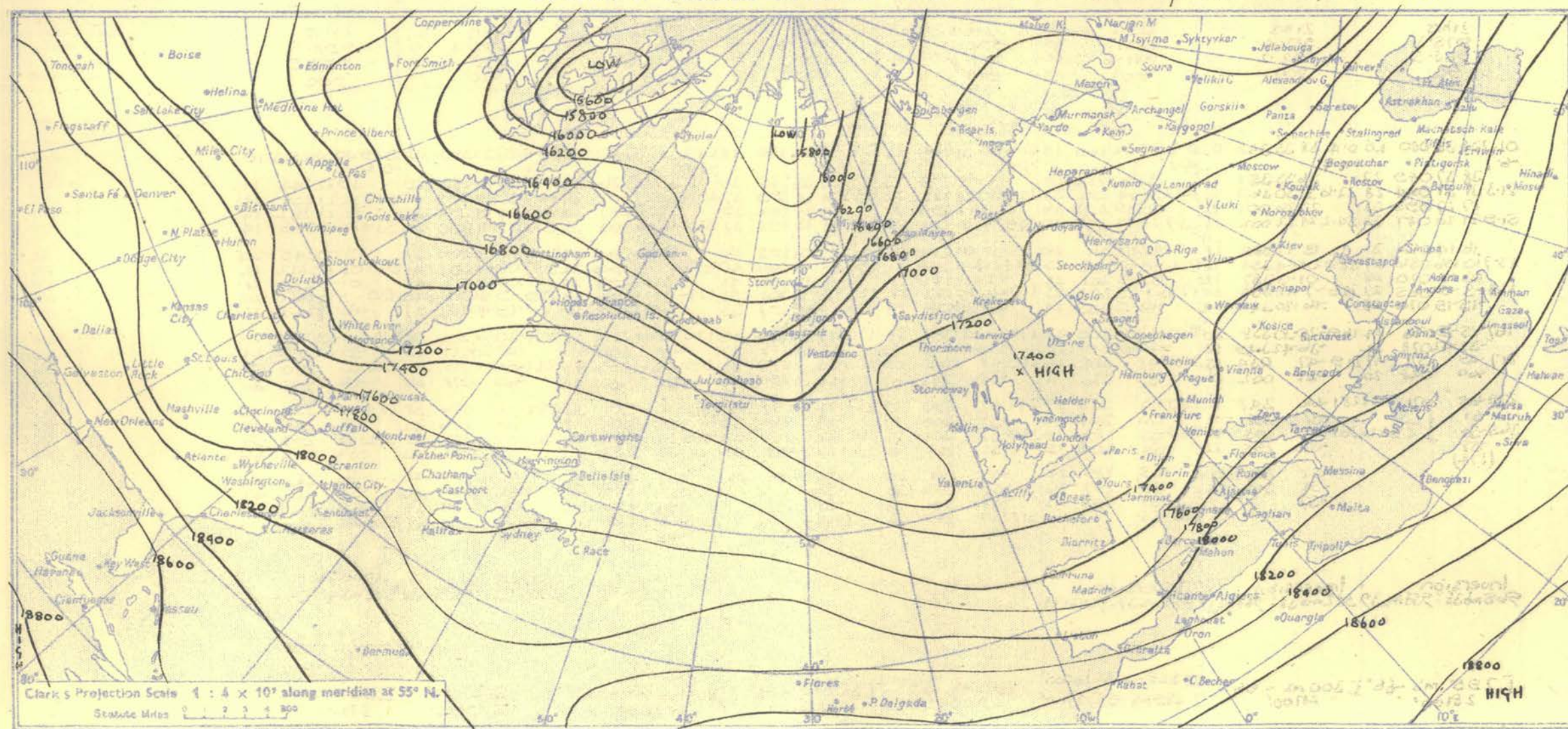
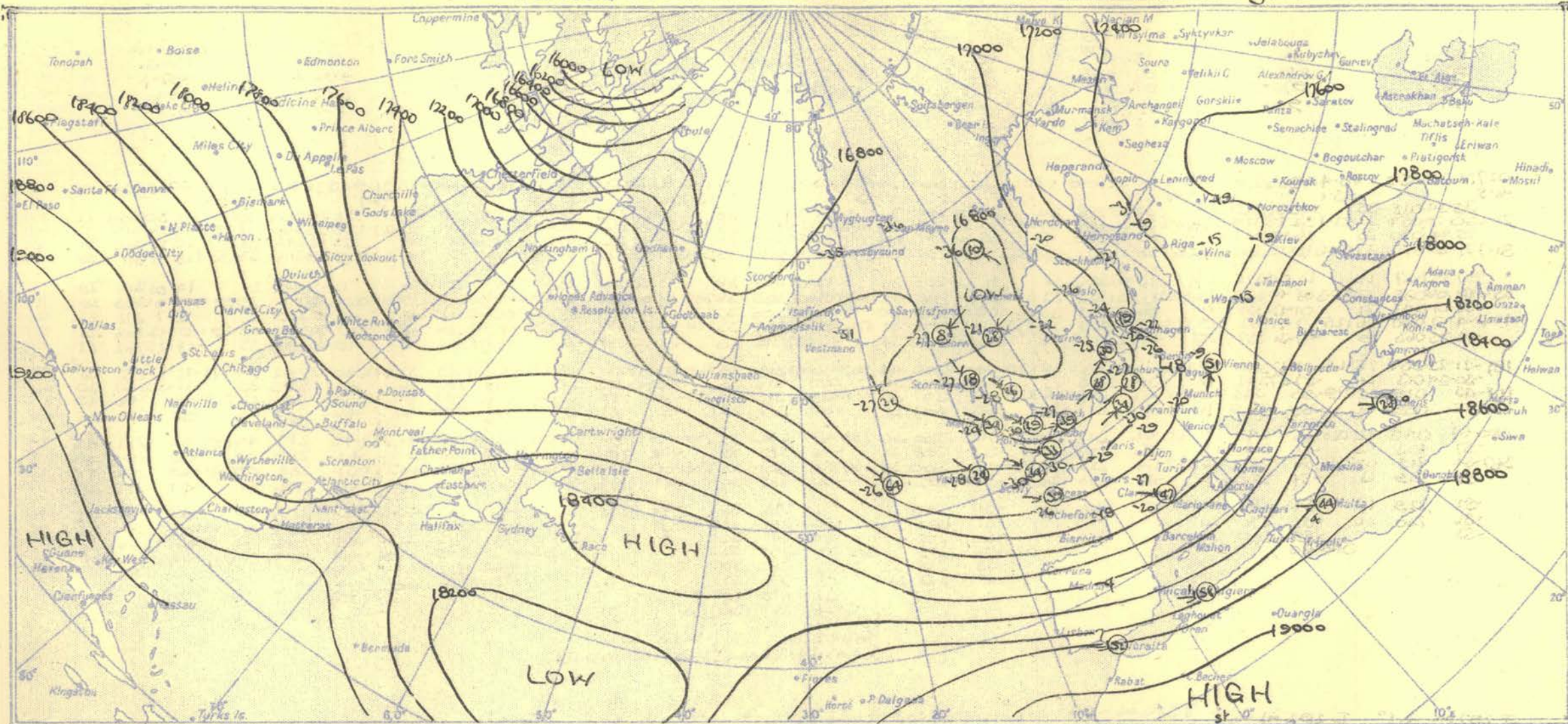
The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

NOTES ON THE AEROLOGICAL SITUATION.

Further warming, probably mainly dynamical, took place in West and Central Atlantic. Little significant change otherwise.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director



[illegible]

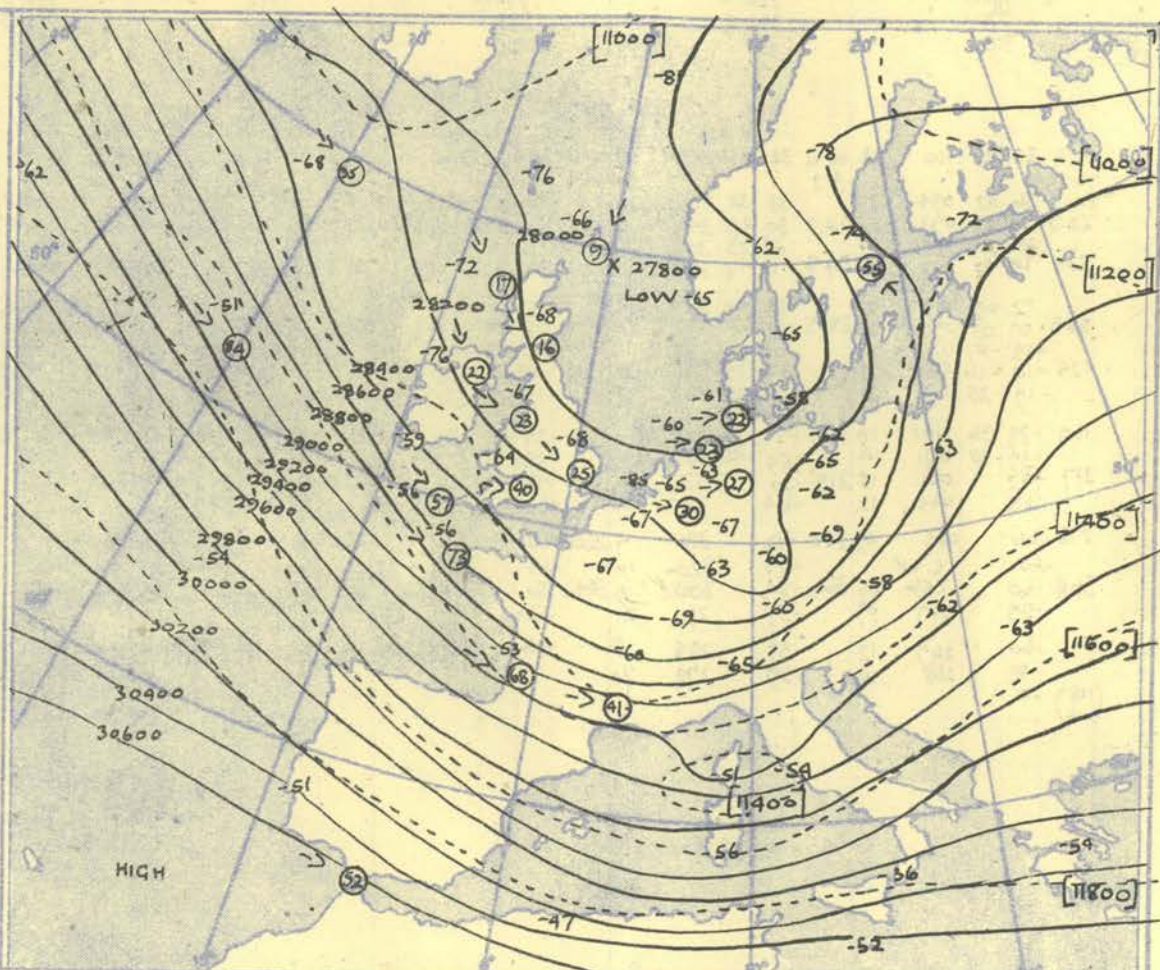
(56) 47 Inversion Inversion
234mb-64-326mb-63390mb-52-384mb-51

Tropopause	I 297 ms -68° 26300'				I 292 ms -67° 26500'				II 280 ms -57° 22400'				I 293 ms -71° 26700'				I 300 ms -67° 27900'				I 308 ms -61° 27400'				II 320 ms -63° 26800'				I 301 ms -75° 27100'				II 362 ms -58° 24100'				Tropopause						
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE								STATION						
Pressure	Time	21hrs			G.M.T.	21hrs			G.M.T.	21hrs			G.M.T.	21hrs			G.M.T.	21hrs			G.M.T.	21hrs			G.M.T.	21hrs			G.M.T.	21hrs			G.M.T.	Time									
	M.S.L.	975.3			mb	983.8			mb	982.5			mb	990.2			mb	990.4			mb	991.7			mb	995.4			mb	998.6			mb	M.S.L.									
	Surf	965.5			mb	982.2			mb	981.6			mb	981.3			mb	988.3			mb	986.6			mb	979.1			mb	987.9			mb	Surf									
Freezing		902				900				907				915				903				920				910				900				Freezing									
Pressure	Height	Wind				Wind				Wind				Wind				Wind				Wind				Wind				Wind				Pressure									
		Temp.	Dew	Dir.	Vel.	Temp.	Dew	Dir.	Vel.	Temp.	Dew	Dir.	Vel.	Temp.	Dew	Dir.	Vel.	Temp.	Dew	Dir.	Vel.	Temp.	Dew	Dir.	Vel.	Temp.	Dew	Dir.	Vel.														
Surf	1000	02.7	38	38	080	20	0.4	38	35	345	05	0.2	37	32	160	15	01.6	35	31	260	13	0.6	39	36	270	18	01.2	38	35	245	13	4.4	37	32	280	10	01.9	40	35	250	10	Surf	
950	6.7	38	37	069	27	-4.4	36	33	354	21	4.8	31	31	282	29	-2.4	33	29	279	27	-2.6	37	33	265	31	-2.4	35	32	286	34	-4.2	36	31	285	29	-0.4	39	32	242	21	950		
900	21.3	31	31	084	28	22.6	32	30	360	21	23.2	31	24	292	33	25.4	30	25	285	28	25.3	31	28	290	37	25.4	30	27	297	36	26.7	31	25	292	30	27.7	32	27	254	18	900		
850	27	27	095	23	27	26	001	23	25	19	305	36	24	18	294	33	24	21	292	39	24	21	292	39	24	21	292	39	24	21	292	39	24	21	292	39	24	21	292	39	24	850	
800	51.9	21	26	087	33	54.2	21	22	002	18	53.7	21	14	315	30	55.9	18	11	291	33	55.7	18	13	298	37	55.8	18	16	293	33	57.1	18	11	300	30	58.4	22	15	255	14	800		
750	16	14	064	31	15	13	065	18	17	08	311	26	11	01	291	31	12	03	295	36	12	03	295	36	12	03	295	36	12	03	295	36	12	03	295	36	12	03	295	36	12	750	
700	85.7	10	06	056	27	88.0	08	04	354	18	87.6	10	00	306	25	89.4	04	11	290	32	89.3	05	11	296	40	89.4	05	12	294	32	90.7	08	11	307	41	92.2	08	00	242	22	700		
650	03	-1	070	26	01	-3	057	18	02	-8	263	24	-2	-21	286	31	-1	-15	300	40	-3	-15	293	30	-3	-15	293	30	-3	-15	293	30	-3	-	00	-23	312	42	01	-9	259	21	650
600	124	-5	-9	065	27	126	-7	-12	054	20	125	-7	-15	303	23	127	-11	-30	285	28	127	-8	-31	301	53	127	-11	-21	291	28	129	-9	-32	312	40	130	-7	-18	246	20	600		
550	15	-19	070	23	-16	-20	344	20	-16	-23	305	24	-19	-35	276	24	-17	-35	297	53	-21	-32	289	31	-19	-40	307	37	-19	-40	307	37	-16	-28	247	21	-16	-28	247	21	550		
500	16	25	29	076	24	169	-25	30	338	20	169	-27	34	300	24	170	-26	47	264	18	170	-27	48	289	45	170	-31	44	294	38	171	-30	-51	301	37	173	-27	-39	249	27	500		
450	37	42	078	24	36	42	345	18	40	47	311	23	-36	-57	210	08	-36	-58	289	37	-40	-59	289	37	-40	-59	289	37	-40	-59	289	37	-39	-59	289	37	-39	-59	289	37	450		
400	217	49	071	17	49	-47	034	15	219	48	334	14	220	48	165	06	220	50	280	31	219	52	202	43	221	51	218	32	223	53	218	32	223	53	218	32	223	53	218	32	400		
350	60	048	20	-58	002	06	59	320	11	58	293	67	61	291	24	61	291	24	64	303	44	65	298	36	65	298	36	65	298	36	65	298	36	65	298	36	65	298	36	350			
300	279	65	071	082	81	66	348	12	280	63	313	17	282	67	293	19	281	74	298	21	280	72	301	38	282	74	286	38	284	62	282	41	284	62	282	41	284	62	300				
250	61	LY	38	308	13	56	308	16	267	55	288	19	269	53	281	27	267	56	289	30	269	54	280	31	269	52	282	38	272	53	290	57	294	66	290	57	294	66	250				
200	365	54	LY	38	308	13	56	308	16	267	55	288	19	269	53	281	27	267	56	289	30	269	54	280	31	269	52	282	38	272	53	290	57	294	66	290	57	294	66	200			
170	58	(174)	LY	38	308	13	56	308	16	267	55	288	19	269	53	281	27	267	56	289	30	269	54	280	31	269	52	282	38	272	53	290	57	294	66	290	57	294	66	170			
150	58	(174)	LY	38	308	13	56	308	16	267	55	288	19	269	53	281	27	267	56	289	30	269	54	280	31	269	52	282	38	272	53	290	57	294	66	290	57	294	66	150			
130	58	(174)	LY	38	308	13	56	308	16	267	55	288	19	269	53	281	27	267	56	289	30	269	54	280	31	269	52	282	38	272	53	290	57	294	66	290	57	294	66	130			
110	58	(174)	LY	38	308	13	56	308	16	267	55	288	19	269	53	281	27	267	56	289	30	269	54	280	31	269	52	282	38	272	53	290	57	294	66	290	57	294	66	110			
90	58	(174)	LY	38	308	13	56	308	16	267	55	288	19	269	53	281	27	267	56	289	30	269	54	280	31	269	52	282	38	272	53	290	57	294	66	290	57	294	66	90			
80	58	(174)	LY	38	308	13	56	308	16	267	55	288	19	269	53	281	27	267	56	289	30	269	54	280	31	269	52	282	38	272	53	290	57	294	66	290	57	294	66	80			
70	58	(174)	LY	38	308	13	56	308	16	267	55	288	19	269	53	281	27	267	56	289	30	269	54	280	31	269	52	282	38	272	53	290	57	294	66	290	57	294	66	70			
60	58	(174)	LY	38	308	13	56	308	16	267	55	288	19	269	53	281	27	267	56	289	30	269	54	280	31	269	52	282	38	272	53	290	57	294	66	290	57	294	66	60			
Inversion	965 mb 38° - 958 mb 39°				982 mb 38° - 968 mb 39°				982 mb 37° - 962 mb 38°																																		
Tropopause	I 295 ms -66° 28100'				I 300 ms -66° 28100'				II 328 mb -62° 26000'				I 290 ms -69° 29000'				I 300 ms -74° 28100'				II 306 ms -72° 28000'				I 308 ms -74° 27900'				I 350 ms -66° 28200'				Tropopause										

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																
Time M.S.L.	03h				03h				03h				03h				03h				03h				03h				03h				03h				Time M.S.L.																
Surf	981.0				981.4				984.5				991.2				992.6				994.5				997.0				1000.4				1002.7				Surf																
Pressure	925				910				910				960				922				921				905				916				930				Pressure																
Height ft./100	Temp.				Temp.				Temp.				Temp.				Temp.				Temp.				Temp.				Temp.				Temp.				Height ft./100																
Pressure mb	Dir.				Dir.				Dir.				Dir.				Dir.				Dir.				Dir.				Dir.				Dir.				Pressure mb																
Surf	02.7	38	38	110	23	00.4	38	35	300	05	00.2	38	32	270	15	02.6	33	30	270	15	00.6	39	35	270	20	01.2	34	30	210	09	04.4	35	32	280	10	02.9	41	32	293	15	00.3	41	32	310	22	Surf							
1000	-5.1				-3.7					-4.4					-2.1					-2.0					-1.5					-0.8					0.1				8				1000										
950		36	32	094	33		38	34	337	24		35	30	282	28		31	27	288	21		35	31	270	30		34	28	271	28		37	32	264	18		36	28	294	32		34	25	950									
900	22.7	29	27	093	33	24.3	30	29	343	23	23.6	31	27	293	30	25.6	29	25	292	19	23.9	29	25	280	28	26.4	30	22	281	28	27.1	31	27	260	15	28.1	30	23	301	32	28.6	28	21	900									
850		24	21	094	34		24	23	348	23		26	23	309	24		23	16	300	24		23	19	281	30		30	15	281	30		25	22	255	20		23	16	305	32		22	15	850									
800	52.1	19	17	093	33	54.8	19	17	349	24	54.1	22	19	314	16	56.1	18	09	303	25	56.4	18	10	283	32	56.8	20	05	281	32	57.5	19	15	252	25	58.5	18	11	305	35	58.9	16	09		800								
750		12	09	094	29		14	09	344	25		15	11	323	27		12	00	306	24		12	00	282	29		14	09	279	35		13	10	243	26		11	04	303	37		08	-01	750									
700	86.8	07	03	091	26	88.5	08	01	338	26	87.9	08	04	323	20	89.7	05	-11	311	21	89.9	05	-09	278	27	90.6	07	-14	275	35	91.2	07	03	245	26	92.1	05	-11	304	36	92.2	03	-11	700									
650		-02	-07	086	26		01	-06	333	27		01	-03	316	16		-03	-23	319	18		-04	-16	266	31		-02	-22	270	34		-06	-03	257	29		-03	-18	306	36		-03	-15	650									
600	124	-10	-16	084	25	126	-09	-18	336	28	126	-07	-11	318	17	137	-10	-31	330	14	127	-12	-23	256	36	128	-10	-24	270	35	129	-08	-11	253	28	130	-11	-25	299	32	130	-11	-25	600									
550	-19	-25	108	21	-18	-28	343	27	-17	-20	332	21	-19	-39	333	13	-21	-33	252	40	-20	-35	275	36	-17	-21	242	27	-20	-31	284	30	-21	-37		-20	-31	284	30	-21	-37	550											
500	167	-28	-36	101	19	169	-27	-36	359	24	169	-27	-31	330	22	170	-28	-47	338	15	170	-32	-43	251	48	171	-30	-46	272	39	172	-28	-33	248	31	173	-29	-39	265	27	172	-32	-47	500									
450		-39	-48	071	14		-39	-46	348	19		-38	-43	327	14		-39	-57	342	16		-43		250	43		-40	-46	275	44		-40	-46	249	35	-40		241	26	-38	-53	450											
400	217	-52		051	15	219	-50		337	13	219	-48		336	14	220	-51		342	17	220	-55		249	30	221	-54		279	36	222	-52		246	36	222	-51		274	28	223	-44	400										
350		-65		060	12		-64		320	10		-60		331	06		-61		347	18		-62		267	20		-66		270	33		-64		253	-37		-57		291	41		-54	350										
300	278	-66		023	09	280	-72		316	17	280	-68		316	16	282	-70		330	22	281	-67		284	23	281	-68		280	25	283	-64		271	40	284	-55		297	57	285	-59	300										
250		-62		L.V.			-67		320	16		-64		307	17		-60		304	30		-58		295	29		-63		277	29		-56			-56		299	56		-56	250												
200	364	-60		286	08	366	-57		300	19	366	-56		303	21	368	-58		306	33	367	-56		288	33	368	-54		290	34		372	-56		372	-56		294	61	225	-55	200											
170		-59		267	09		-57		290	21		-56		299	24		-54		294	36		-54		294	36		-51		288	29			-57		293	61	mb		170														
150		-60		269	12		-59		288	25		-56		289	28		-56		298	29		-55		290	22		-58		289	30	For rest of											295	56		150								
130	(18)	-61		258	15		-59		278	20							-60		290	22		-58		285	36		-57		287	32	winds see page											294	54		130								
110																	-61		300	33	517	-59		302	27		-62		283	20					520	-63		293	46		110												
90																	-62		302	27		-64		302	27		-64		302	27					87	-67		300	40		90												
70																																											70										
50																																											50										
Inversion 945 mb 382° 966 mb 40°																																						Isothermal 363 - 345 mb - 62°				Inversion 990 mb 340° 957 mb 35°				Inversion 980 mb 355° 966 mb 38°				Isothermal 737 - 729 mb 07°			
Tropopause				I 325 mb - 68°				I 293 mb - 73°				I 307 mb - 69°				I 300 mb - 70°				I 307 mb - 68°				I 325 mb - 68°				I 322 mb - 68°				I 345 mb - 57°				I 307 mb - 60°				Tropopause													
STATION				LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION													
Time M.S.L.	09h				09h				09h				09h				09h				09h				09h				09h				09h				G.M.T.				Time M.S.L.												
Surf	986.7				990.0				986.5				995.4				993.9				995.6				998.7				1004.2				993.5				G.M.T.				Surf												
Pressure	976.8				988.4				985.6																																												

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h G.M.T.

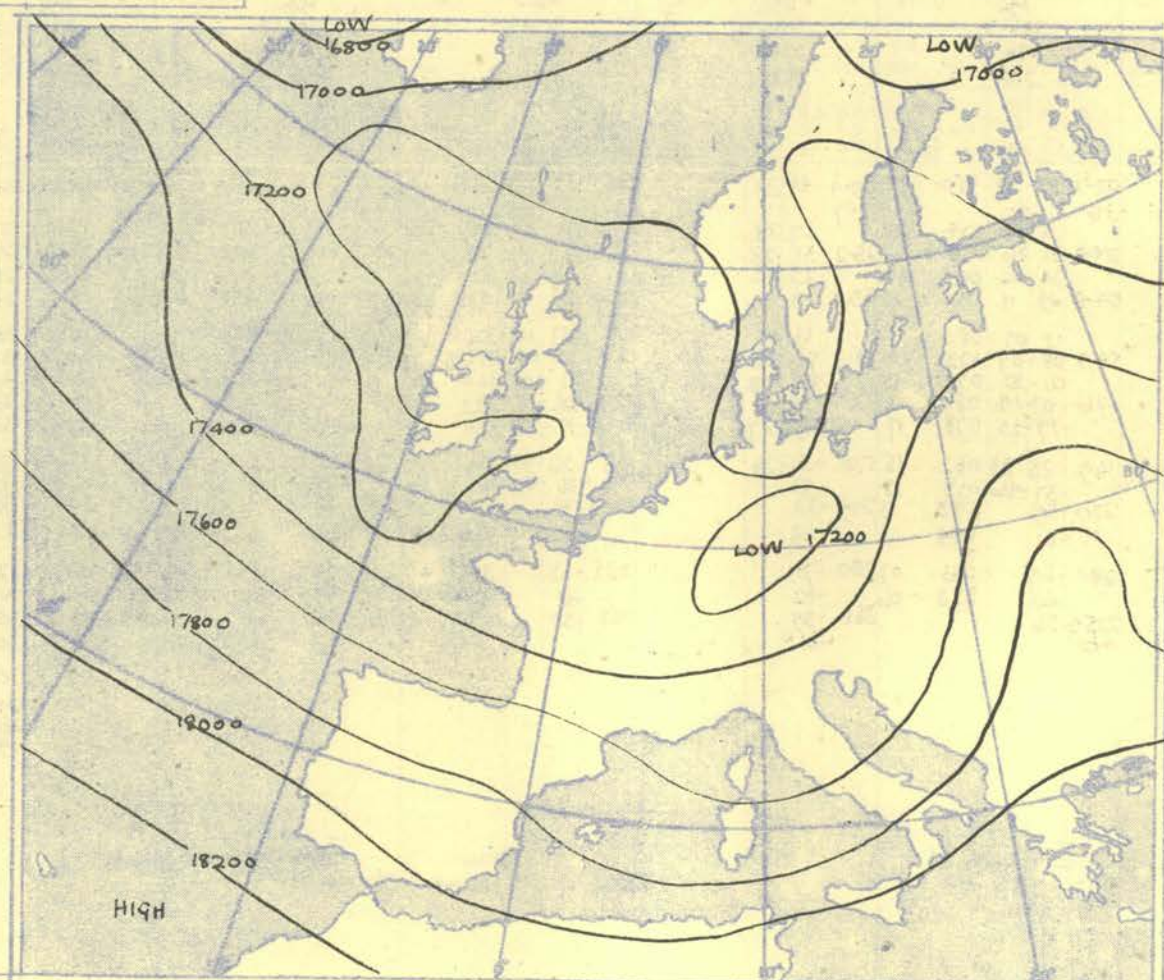


Scale
1 : 3×10^7

The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. $52\frac{1}{2}^{\circ}$ N.

The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopieths of the thickness of the layer 500 - 300 mb



The continuous lines are contour lines of the 500mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.

Isopleths of Thickness 500-1000mb.

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

48° 1N. 17° 0W.			46° 0N. 15° 0W.			43° 3N. 17° 0W.			51° 3N. 00° 4E.															Time M.S.L. Surf Freezing		
Pressure mb	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Pressure mb	
Surf		46	34		43	38		47	47	03-1	42	32													Surf	
1000	4-2	44		3-7	42		4-5	46	46	0-1															1000	
950		37	32		36	34		43	43		38	31													950	
900		30	25		29			41	41	28-1	31	31													900	
850		23	20		26			37	37		29														850	
800		19	13		20			32	32	58-7	20														800	
750		17	04		15			29	29		09														750	
700	96-5	12	08	95-9	09		99-0	24		92-2	04														700	
650		11	05		03			20			-04														650	
600		06			05			12		130-13															600	
550		-01			-02			02			-19														550	
500	180	-11		179	-11		183	-04		173	-28														500	
450											-39														450	
400										223	-40														400	
350											-58														350	
300										285	-65														300	
250																									250	
200																									200	
170																									170	

Surf. wind- N.W. 11-16 kts.
Cloud.
5/8 Cu 960-900mb
2/8 Cu 960-TN.R.
4/8 Sc 830-800mb.

Surf. wind- N.W. 11-16 kts.
Cloud.
4/8 Cu 940-840mb.
2/8 Cu 940-700mb.
2/8 Sc 820-810mb.
Isothermal
670-650mb. 3°
Inversion
650mb 3°-
600mb 5°

Surf. wind- E. 11-16 kts.
Cloud.
8/8 Ns 1000-580mb.
8/8 As 540-TN.R.

Cloud.
7/8 Cu 890-760mb.

DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

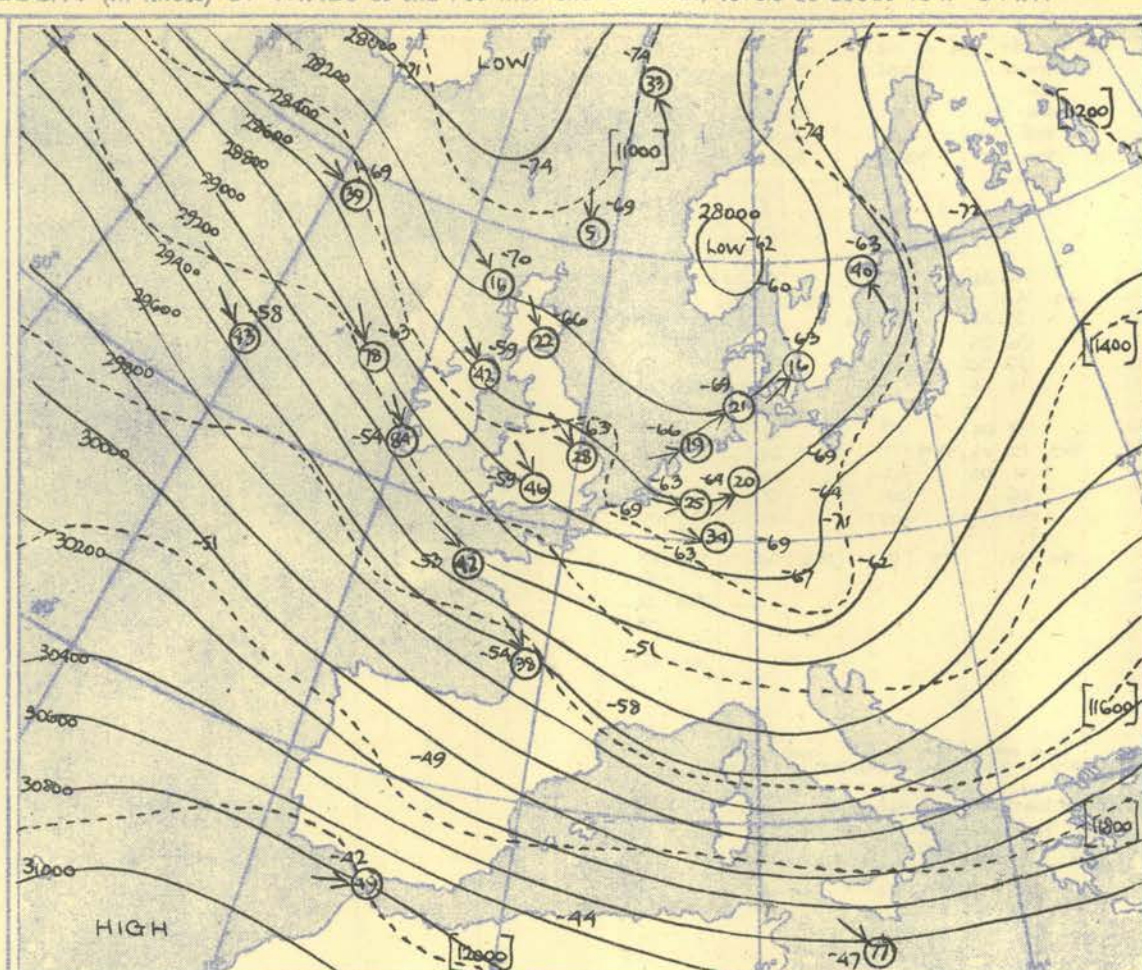
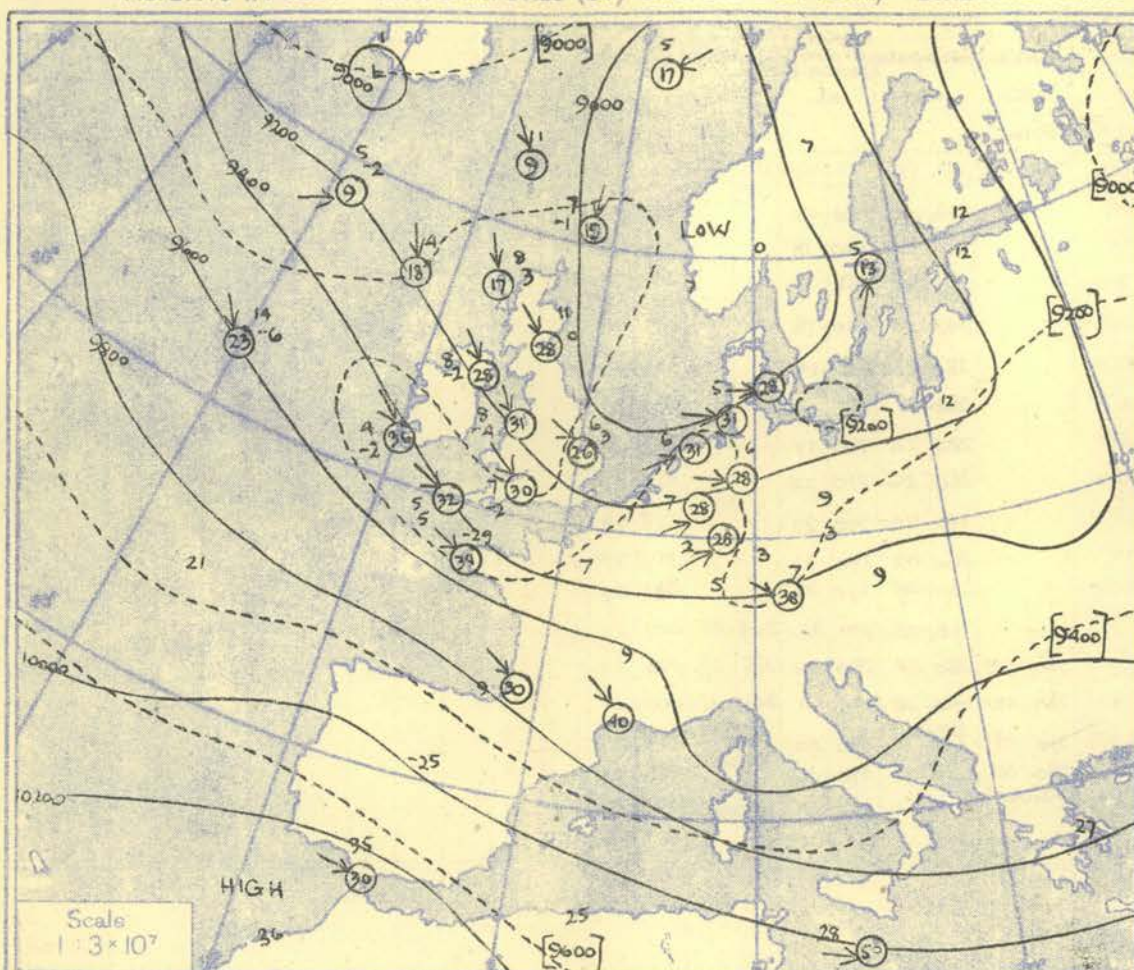
[illegible]

NEPHOSCOPE OBSERVATIONS

[illegible]

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

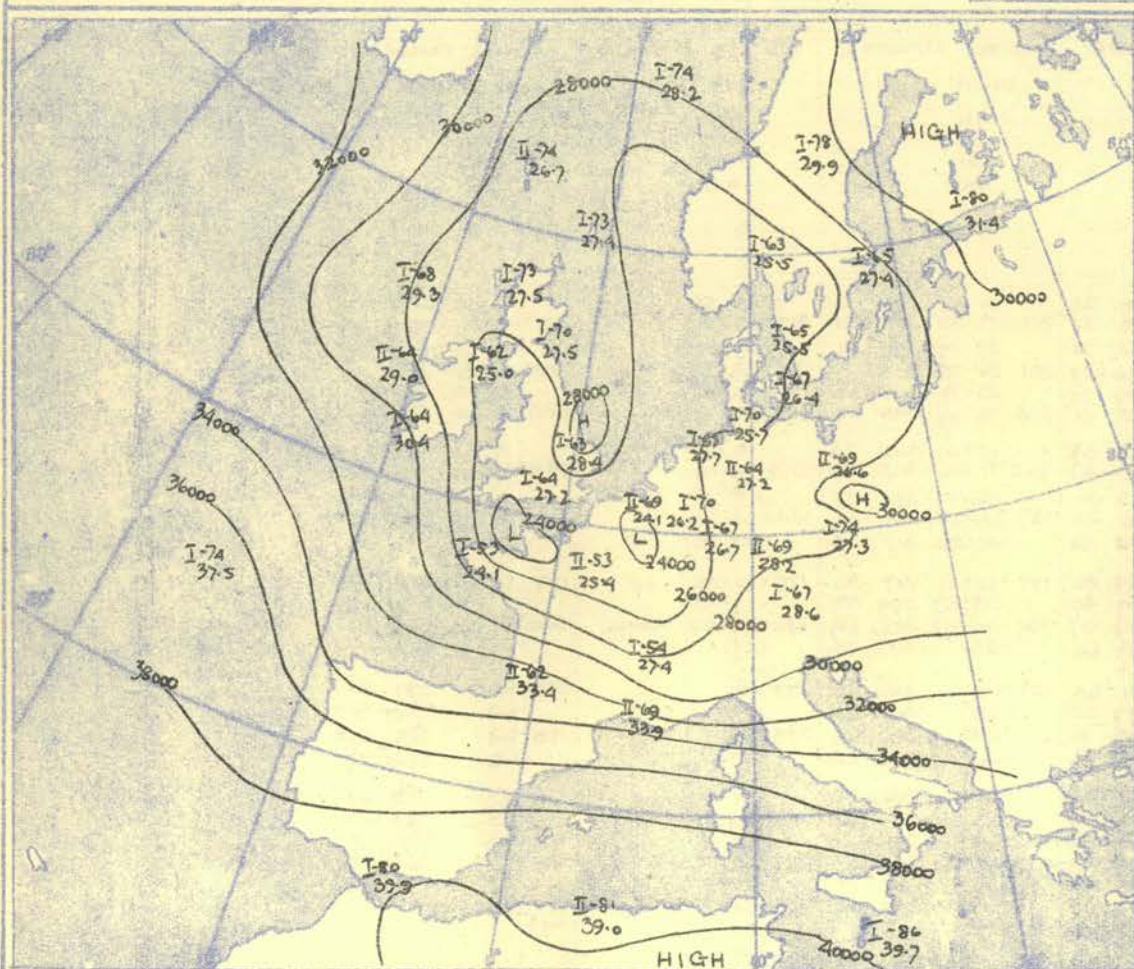
Ship	WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				WEATHER RECORDER				Ship		
Lat/Long	59° 34'. 19° 8' W.				59° 04'. 18° 9' W.				59° 04'. 19° 0' W.				59° 04'. 18° 9' W.				52° 64'. 20° 0' W.				52° 64'. 19° 8' W.				52° 54'. 19° 8' W.				52° 44'. 19° 6' W.				Lat/Long						
Pressure M.S.L. Surf Freezing	Time		08h.		G.M.T.		09h.		G.M.T.		15h.		G.M.T.		21h.		G.M.T.		03h.		G.M.T.		09h.		G.M.T.		15h.		G.M.T.		21h.		G.M.T.		Time M.S.L. Surf Freezing				
	996		mb		999		mb		1002		mb		1003		mb		1011		mb		1011		mb		1012		mb		1012		mb		G.M.T. mb mb mb						
	996		mb		999		mb		1002		mb		1003		mb		1011		mb		1011		mb		1012		mb		1012		mb								
	910		mb		930		mb		930		mb		960		mb		920		mb		910		mb		910		mb		900		mb								
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb						
Surf	1000	-1.2	42	39	310	33	-1	41	39	300	30	6	41	34	300	23	0.8	37	34	310	23	2.9	40	33	288	27	3.1	43	35	305	21	3.2	43	34	Surf				
1000	950	36	35	316	44	34	30	310	32	34	33	296	22	31	28	308	13	35	26	291	28	31.1	37	29	305	21	3.2	37	32	305	21	3.2	37	32	1000				
950	900	26.8	30	30	319	38	27.7	28	23	317	29	28.5	28	25	295	15	28.4	26	22	300	15	30.8	39	19	294	29	31.1	31	25	305	21	31.2	30	26	950				
900	850	25	23	331	33	24	19	312	20	24	19	286	11	20	16	295	14	22	12	290	28	30.8	25	19	305	20	31.1	25	15	305	20	31.2	26	22	900				
800	750	57.3	19	18	331	30	58.0	17	13	321	16	58.7	14	14	262	09	58.5	14	11	292	13	61.0	15	03	285	31	61.5	18	09	305	26	61.8	22	12	800				
750	700	13	12	331	23	12	07	326	16	10	08	249	08	07	04	288	14	11	03	284	34	95.2	12	02	305	24	95.2	12	02	305	24	95.8	18	02	750				
700	650	91.0	07	02	338	19	91.6	06	00	327	13	92.1	05	02	237	09	91.7	00	03	274	15	94.5	05	08	290	36	95.2	11	06	305	24	95.8	14	06	700				
650	600	00	07	359	19	00	11	324	12	01	11	245	11	05	08	257	17	02	14	292	35	133	06	07	301	27	133	06	07	301	27	133	08	16	650				
600	550	129	09	28	353	18	129	09	22	319	12	130	09	19	262	16	129	11	14	250	16	132	07	19	290	38	133	00	29	313	33	134	01	30	600				
550	500	20	30	339	19	19	34	307	15	18	27	263	17	20	25	248	16	13	29	289	42	133	08	41	317	37	133	08	41	317	37	133	07	30	550				
500	450	171	31	42	345	18	172	29	45	300	15	173	26	34	269	12	172	28	34	245	16	175	22	36	289	40	177	14	47	317	50	178	17	35	500				
450	400	43	30	341	19	39	55	301	22	301	22	223	36	43	275	18	222	37	45	263	24	222	37	45	263	24	222	37	45	263	24	222	37	45	450				
400	350	221	50	330	25	222	49	305	36	223	48	291	30	56	287	36	222	42	55	286	39	226	41	55	289	57	229	34	57	306	69	230	34	42	400				
350	300	59	30	313	31	58	307	54	285	69	281	39	284	65	287	42	290	51	56	297	75	293	60	56	297	75	293	60	56	297	75	293	60	56	350				
300	250	283	68	301	35	284	69	307	54	285	69	281	39	284	65	287	42	290	51	56	297	75	293	60	56	297	75	293	60	56	297	75	293	60	56	300			
250	200	64	307	35	307	35	65	311	51	285	69	281	39	284	65	287	42	290	51	56	297	75	293	60	56	297	75	293	60	56	297	75	293	60	56	250			
200	170	368	59	298	40	369	64	299	41	369	64	299	41	369	64	299	41	369	64	299	41	369	64	299	41	369	64	299	41	369	64	299	41	369	64	200			
170	150	60	297	39	297	39	64	300	44	297	39	297	39	297	39	297	39	297	39	297	39	297	39	297	39	297	39	297	39	297	39	297	39	297	39	170			
150	130	62	296	36	296	36	64	302	43	296	36	296	36	296	36	296	36	296	36	296	36	296	36	296	36	296	36	296	36	296	36	296	36	296	36	150			
130	110	64	283	36	283	36	65	290	42	283	36	283	36	283	36	283	36	283	36	283	36	283	36	283	36	283	36	283	36	283	36	283	36	283	36	130			
110	100	66	276	38	276	38	67	272	46	276	38	276	38	276	38	276	38	276	38	276	38	276	38	276	38	276	38	276	38	276	38	276	38	276	38	110			
100	90	67	277	40	277	40	68	267	51	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	100			
90	80	68	277	40	277	40	68	276	47	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	90			
80	70	68	277	40	277	40	68	276	47	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	80			
70	60	68	277	40	277	40	68	276	47	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	70			
60	50	68	277	40	277	40	68	276	47	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	277	40	60			
Isothermal				795 - 781mb. 16°				Isothermal				1002 - 1000mb. 41°				Isothermal				1011mb. 41° - 1000mb. 43°				Isothermal				1012mb. 45° - 997mb. 46°				Isothermal				821mb. 21° - 813mb. 23°			
Tropopause				I 305mb. -69° 28,300'				I 270mb. -71° 30,700'				N.R.				I 264mb. -71° 31,200'				I 262mb. -56° 31,900'				I 250mb. -73° 33,200'				I 247mb. -70° 33,500'				I 255mb. -70° 32,800'				Tropopause			



Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

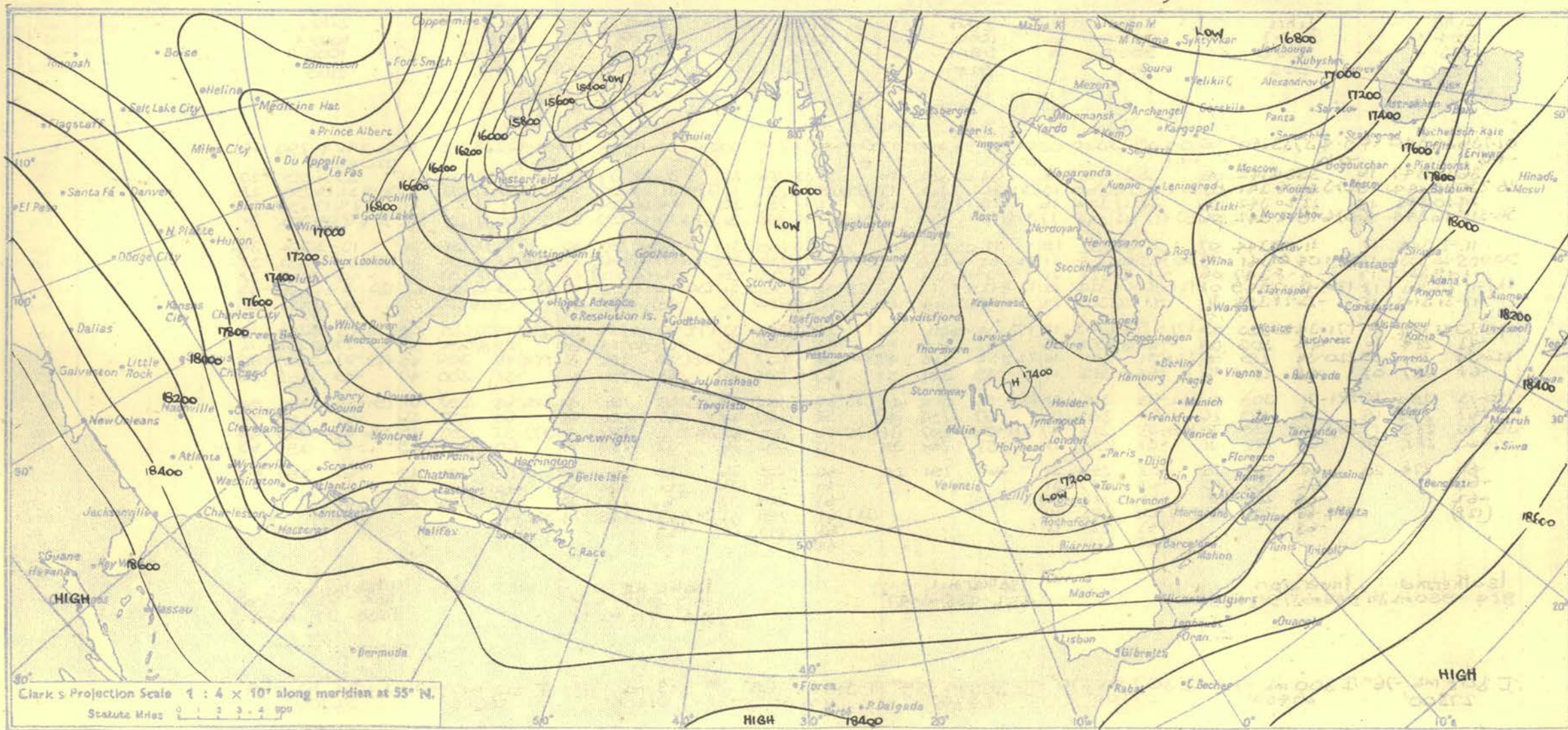
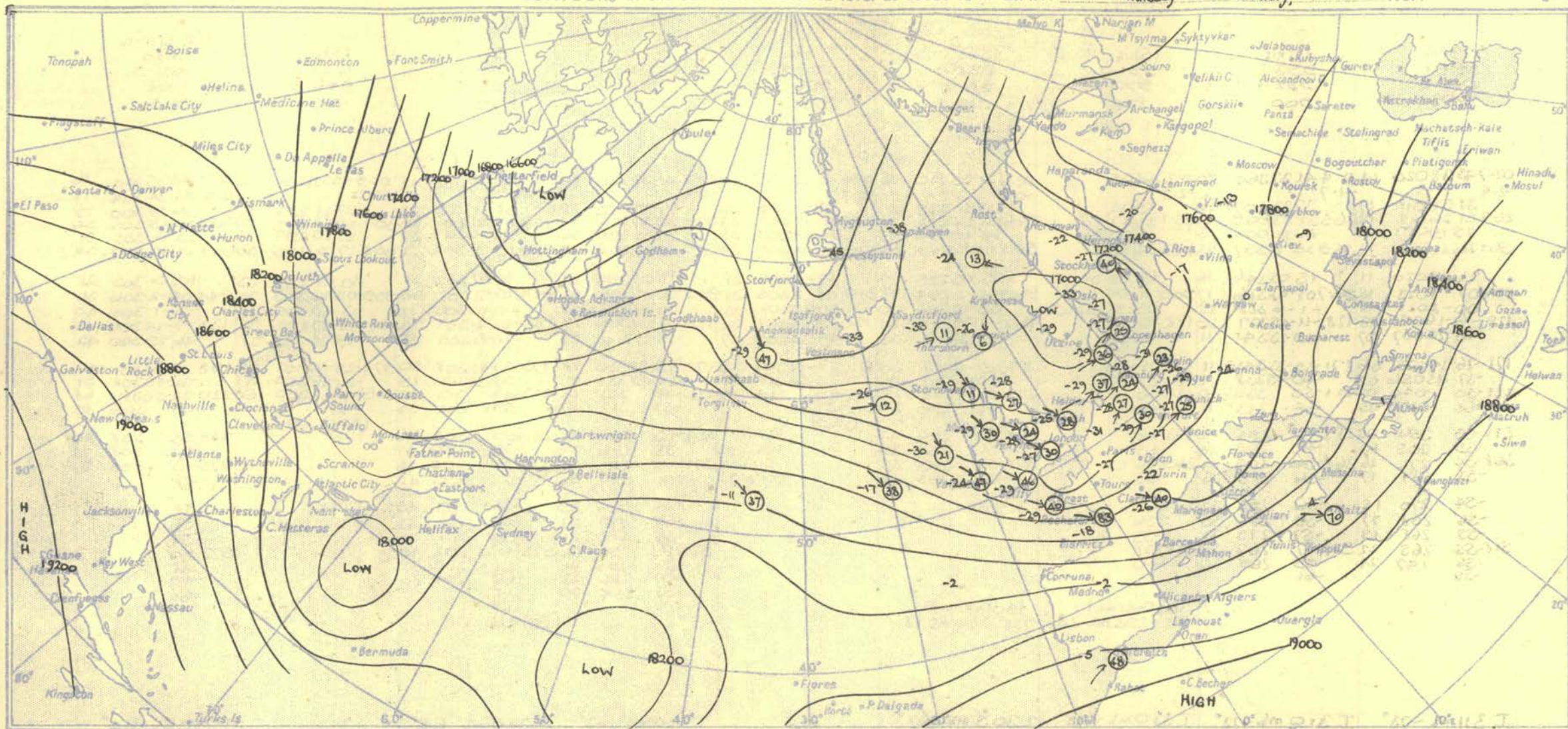
100 80 60 40 20 10 0 knots

TROPOPAUSE CHART at about 15h. G.M.T.



NOTES ON THE AEROLOGICAL SITUATION.

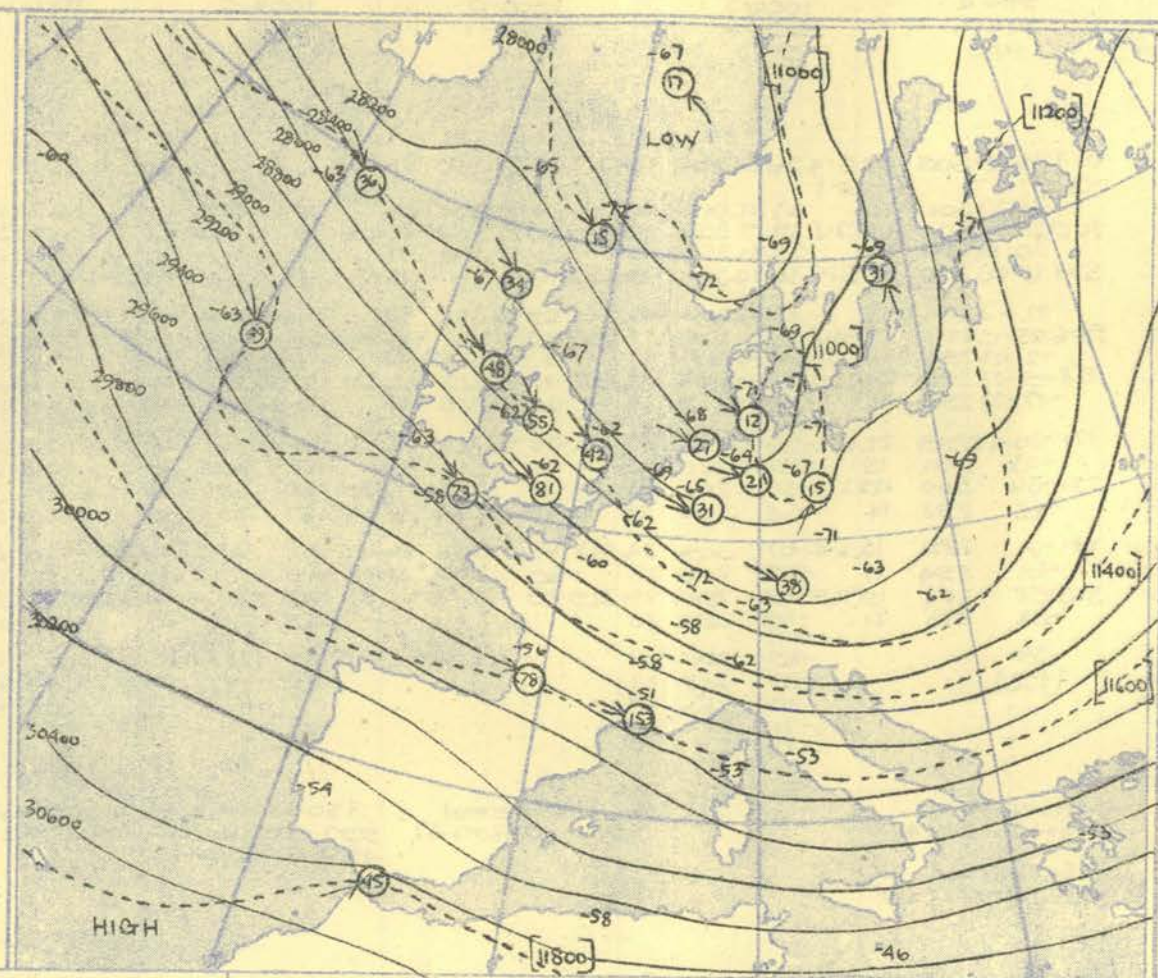
Warmer air from central Atlantic spread eastwards transferring the axis of the cold trough from 15° W to about 0° W. Steady cooling has occurred between Iceland and Greenland.



RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)																																																																																																																																																																																																																																																																																																																																																																																																																														
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				Valentia				STATION																																																																																																																																																																																																																																																																																																																																																																																								
Pressure Time M.S.L. Surf Freezing	15hrs 991.1 991.2 903	G.M.T. mb mb mb	15hrs 993.7 992.1 900	G.M.T. mb mb mb	15hrs 991.0 990.1 878	G.M.T. mb mb mb	15hrs 998.0 988.8 912	G.M.T. mb mb mb	15hrs 997.8 995.7 907	G.M.T. mb mb mb	15hrs 997.6 993.1 916	G.M.T. mb mb mb	15hrs 1001.5 985.4 899	G.M.T. mb mb mb	15hrs 1007.6 996.9 912	G.M.T. mb mb mb	15hrs 1008.9 1008 915	G.M.T. mb mb mb	Time M.S.L. Surf Freezing	Pressure Time M.S.L. Surf Freezing	15hrs 991.0 990.1 878	G.M.T. mb mb mb	15hrs 998.0 988.8 912	G.M.T. mb mb mb	15hrs 997.8 995.7 907	G.M.T. mb mb mb	15hrs 997.6 993.1 916	G.M.T. mb mb mb	15hrs 1001.5 985.4 899	G.M.T. mb mb mb	15hrs 1007.6 996.9 912	G.M.T. mb mb mb	15hrs 1008.9 1008 915	G.M.T. mb mb mb																																																																																																																																																																																																																																																																																																																																																																																												
																																			Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir.

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

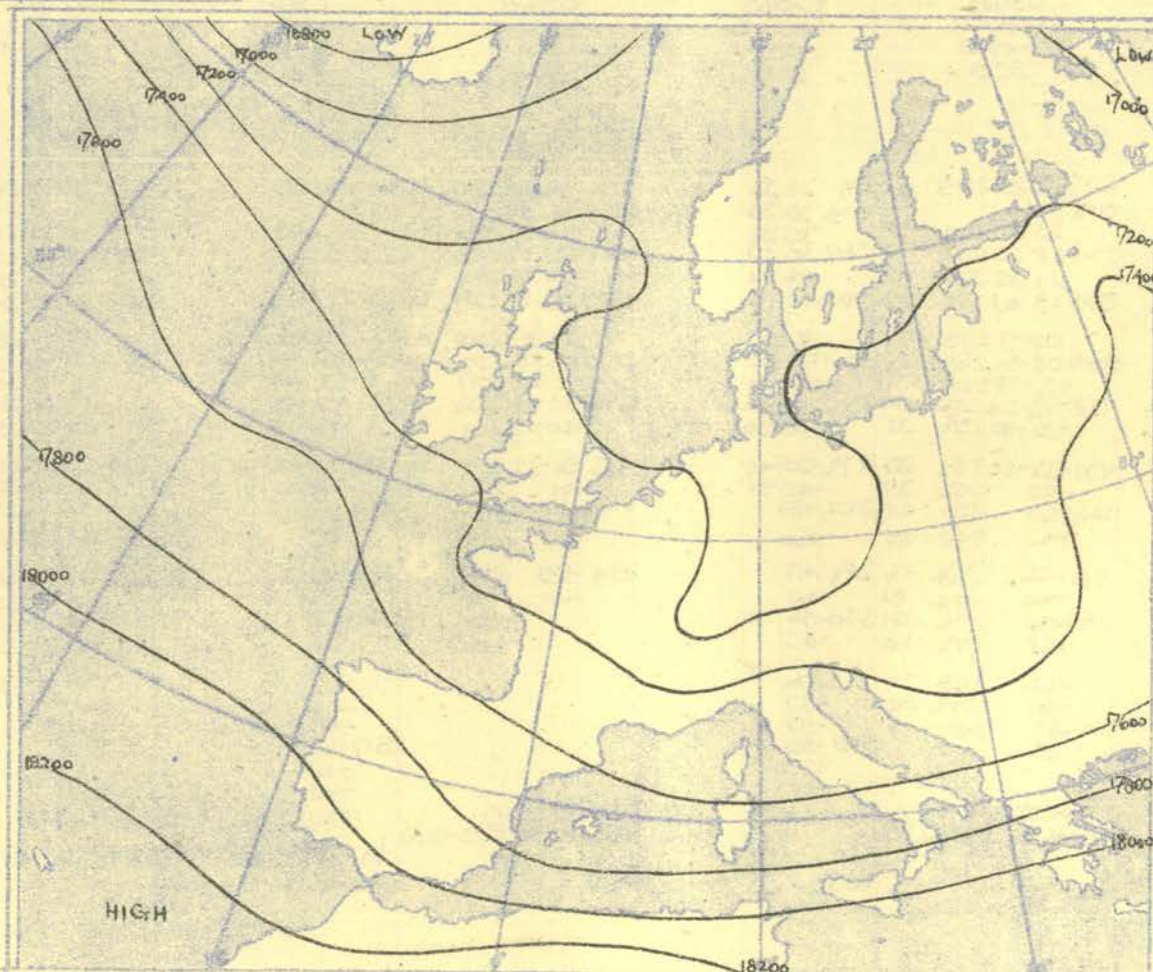
STATION	LERWICK	STORNOWAY	LEUCHARS	ALDERGROVE	LIVERPOOL	DOWNHAM MARKET	LARKHILL	CAMBORNE	Valentia	STATION	
Time	03hrs	03hrs	03hrs	03hrs	03hrs	03hrs	03hrs	03hrs	03hrs	Time	
M.S.L.	996.4	1000.3	1000.0	1004.5	1002.9	1003.7	1001.9	1012.4	1010.7	M.S.L.	
Surf	996.2	998.6	999.1	995.1	1000.8	999.2	991.4	1001.6	1010	Surf	
Pressure	920	943	921	928	912	913	938	900	915	Pressure	
Height	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	Height	
Temp.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	Temp.	
Dew	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	Dew	
Wind	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Wind	
Pressure	mb	mb	mb	mb	mb	mb	mb	mb	mb	Pressure	
Surf	02.7 35 29 305	08 0.4 36 34 260	08 0.2 37 32 250	07 0.2 35 33 270	10 0.6 33 36 280	12 0.1 37 35 225	10 4.4 37 33 290	13 02.9 42 31 270	15 0.3 39 36 190	07 Surf	
1000	01.0	0.1	0.0	0.1	0.8	2.1	2.1	03.3 42 31	2.9 39 35 265	08 1000	
950	35 27 301	20 33 32 012	15 36 27 301	06 34 30 289	20 36 31 293	30 32 271	30 33 30 277	31 38 29 279	24 36 33 265	09 950	
900	26.9 29 24 301	18 27.8 27 359	13 27.9 30 23 308	09 29.1 29 29 309	23 28.7 31 27 309	33 29.8 28 25 282	33 31.4 32 24 284	24 30.9 30 27 269	17 26.9	09 900	
850	20 14 298	18 24 21 355	18 23 18 310	11 23 19 309	20 25 21 309	32 26 25 291	32 24 17 278	32 26 16 293	26 24 20	09 850	
800	57.1 18 03 290	18 58.2 18 14 341	19 58.3 16 13 311	13 59.4 18 14 301	20 59.2 20 13 309	30 20 18 293	30 60.3 21 09 273	29 61.9 21 07 295	28 61.3 20 18	09 800	
750	12.8 28.4	17 12 03 326	22 03 334	15 12 04 306	22 14 07 309	21 13 09 292	29 14 03 273	25 14 03 296	32 14 09	09 750	
700	30.6 05 15 287	18 31.8 06 01 331	18 31.7 05 11 318	15 30.0 06 12 304	21 32.9 08 02 312	07 00 288	25 34.0 06 16 283	27 35.7 09 5 292	23 35.0 06 16	09 700	
650	2.2 23 295	18 1 4 318	15 3 17 324	18 1 20 307	21 00 12 314	22 2 9 285	27 2 16 297	32 05 18 290	26 01 17	09 650	
600	12.8 2.2 293	24 12.9 9 11 304	12 12.9 11 22 323	19 13.1 10 21 311	24 13.1 9 18 310	23 11 49 283	30 13.2 10 26 298	31 13.4 2 27 291	40 13.3 5 29	09 600	
550	17.1 30 48 299	22 17.2 29 35 277	12 17.2 30 40 325	16 17.3 30 46 307	28 17.4 29 40 307	22 31 40 289	34 17.4 30 43 294	42 17.8 18 34 291	46 17.7 21 30	09 550	
500	22.1 36 300	03 22.2 50 291	21 22.2 51 303	17 22.3 48 302	40 22.4 48 308	34 34 288	35 22.3 43 295	75 22.9 36 48 293	58 22.7 41	09 500	
450	28.1 72 289	13 28.4 67 304	34 28.3 67 303	26 28.5 68 297	48 28.6 62 300	53 62 296	42 28.7 62 298	81 29.3 58 291	73 29.0 63	09 450	
400	34.7 58 284	19 34.9 69 291	26 34.9 59 303	31 37.1 60 293	41 37.3 58 296	57 56 291	40 37.3 59 294	45 37.8 63 291	60 37.5 64	09 400	
350	58 283	21 69 292	25 69 292	39 69 292	39 69 292	32 58 290	38 58 288	36 62 274	45 63	09 350	
300	(153)	69 291	27 69 291	33 69 291	33 69 291	39 69 287	39 69 287	42 69 287	53 69 287	09 300	
250	(153)	69 289	27 69 289	31 69 289	31 69 289	40 69 287	40 69 287	47 69 287	48 69 287	09 250	
200	(153)	69 287	27 69 287	31 69 287	31 69 287	40 69 287	40 69 287	47 69 287	48 69 287	09 200	
170	(153)	69 285	27 69 285	31 69 285	31 69 285	40 69 287	40 69 287	47 69 287	48 69 287	09 170	
150	(153)	69 283	27 69 283	31 69 283	31 69 283	40 69 287	40 69 287	47 69 287	48 69 287	09 150	
130	(153)	69 281	27 69 281	31 69 281	31 69 281	40 69 287	40 69 287	47 69 287	48 69 287	09 130	
110	(153)	69 279	27 69 279	31 69 279	31 69 279	40 69 287	40 69 287	47 69 287	48 69 287	09 110	
90	(153)	69 277	27 69 277	31 69 277	31 69 277	40 69 287	40 69 287	47 69 287	48 69 287	09 90	
70	(153)	69 275	27 69 275	31 69 275	31 69 275	40 69 287	40 69 287	47 69 287	48 69 287	09 70	
60	(153)	69 273	27 69 273	31 69 273	31 69 273	40 69 287	40 69 287	47 69 287	48 69 287	09 60	
Inversion 986ms 35.962ms 36°										Inversion 1000ms 39.98ms 40°	
Isothermal 836-805ms 19°										Isothermal 1010-1000ms 39°	
Tropopause 1300ms -72° 28100'										Tropopause 1263ms -68° 31800'	
STATION	LERWICK	STORNOWAY	LEUCHARS	ALDERGROVE	LIVERPOOL	DOWNHAM MARKET	LARKHILL	CAMBORNE		STATION	
Time	03hrs	03hrs	03hrs	03hrs	03hrs	03hrs	03hrs	03hrs		Time	
M.S.L.	997.1	1001.5	1002.0	1008.7	1006.2	1006.9	1010.0	1012.5		M.S.L.	
Surf	997.0	999.8	1001.1	996.0	1004.1	1002.2	993.6	1001.7		Surf	
Pressure	929	913	916	924	914	914	920	923		Pressure	
Height	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100		Height	
Temp.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.		Temp.	
Dew	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.		Dew	
Wind	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.		Wind	
Pressure	mb	mb	mb	mb	mb	mb	mb	mb		Pressure	
Surf	02.7 35 29 293	08 0.4 33 33	08 0.2 32 32 260	10 0.2 35 33	0.6 40 37 260	15 0.1 37 34 220	10 4.4 37 34 270	12 01.9 39 35 230	03	Surf	
1000	0.8	0.4	0.1	0.5	0.7	2.6	2.6	03.3 35 25		1000	
950	35 27 274	18 35 33	13 34 33	13 34 33	20 35 32 281	26 35 31 292	26 35 31 290	23 35 28 263	18	950	
900	27.1 28 23 278	18 28.2 30 27	14 29.3 30 28	14 29.3 30 28	29.6 29 23 297	22 29.6 30 25 303	25 30.5 30 22 294	25 31.2 29 24 263	14	900	
850	21 15 278	18 24 21	11 24 21	11 24 21	22 16 299	22 22 18 306	24 24 18 296	28 23 17 273	18	850	
800	57.3 14 01 272	19 58.6 18 14	11 59.8 18 15	11 59.8 18 15	59.9 17 09 302	21 59.9 18 13 301	22 60.9 20 08 301	23 61.4 13 10 276	23	800	
750	09.7 275	23 11 03	12 10 290	09 12 06	13 2 287	22 13 00 303	24 14 01 296	24 13 05 289	18	750	
700	30.6 04 12 262	28 32.1 05 00	11 33 00 29	11 33 00 29	33.5 05 11 297	20 33.5 07 8 303	24 34.6 08 9 290	25 35.3 09 00 274	24	700	
650	3 28 264	31 3 9	14 3 17	14 3 17	3 21 300	21 3 21 301	25 00 24 291	27 03 11 273	26	650	
600	12.8 13 34 256	30 13 11 20	13 13 9 21	13 13 9 21	13.1 12 30 292	22 13.1 10 26 297	18 13.2 7 32 294	28 13.3 4 27 274	30	600	
550	23 43 256	31 20 30	14 19 29	14 19 29	21 37 294	27 20 36 293	27 15 35 296	34 14 38 277	31	550	
500	17.1 35 50 255	33 17.2 30 42	17.3 34 35 298	14 17.4 31 40	17.4 30 44 294	32 17.4 29 45 300	28 17.6 24 295	40 17.7 21 36 284	38	500	
450	22.1 36 283	21 22.2 49	21 22.4 50	21 22.4 50	22.4 49 298	37 22.4 48 304	39 22.6 44 291	63 22.8 41 282	50	450	
400	28.1 66 264	16 28.4 67	31 28.5 69	31 28.5 69	28.5 69 288	47 28.6 64 300	52 28.9 63 284	70 29.0 66 278	64	400	
350	36.7 58 276	21 37.0 56	29.1 23 37 0.2	29.1 23 37 0.2	37.0 61 291	40 37.2 58 288	45 37.4 59 283	58 37.5 66 291	57	350	
300	58 273	20 53	29.2 28	29.2 28	61 295	48 56 286	39 56 288	37 62 294	53	300	
250	60 269	21 56	62 287	62 287	61 287	36 57 288	35 58 289	40 62 289	49	250	
200	61 276	24 57	64 289	64 289	61 289	38 59 293	37 59 293	42 63 300	54	200	
170	60 267	27 59	63 287	63 287	61 287	38 59 293	37 59 293	42 63 300	54	170	
150	(136)	57 62	62 287	62 287	61 287	38 59 293	37 59 293	42 63 300	54	150	
130	(136)	57 62	62 287	62 287	61 287	38 59 293	37 59 293	42 63 300	54	130	
110	(136)	57 62	62 287	62 287	61 287	38 59 293	37 59 293	42 63 300	54	110	
90	(136)	57 62	62 287	62 287	61 287	38 59 293	37 59 293	42 63 300	54	90	
70	(136)	57 62	62 287	62 287	61 287	38 59 293	37 59 293	42 63 300	54	70	
60	(136)	57 62	62 287	62 287							



The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. $52\frac{1}{2}^{\circ}$ N.

The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 300 - 300 mb



The continuous lines are contour lines of the 500mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.

Isopleths of Thickness 500-1000mb

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

[illegible]

DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

Place	Leuchars	Liverpool	Leeming	Shoeburyness	Leuchars	Liverpool	Romaldsby	Lerwick	Place								
Time	09h	09h	0930h	10h	15h	15h	1445h	21h	Time								
Type	PEAR				PEAR				Type								
Feet	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Feet.				
Surf.					270	13	260	11	280	09	270	12	260	17	290	08	Surf.
1,000					290	14	280	21	265	14	271	18	240	19	310	11	1,000
2,000					300	18	290	20	273	16	270	18	250	27	310	10	2,000
3,000					300	19	300	17	281	16	269	18	240	27	310	07	3,000
4,000					310	16	300	15	284	15	269	18	280	19	310	09	4,000
5,000							300	16	286	16	266	19	250	12	310	09	5,000
6,000					310	25	300	17	280	17	266	20	250	19	310	08	6,000
8,000					300	32	290	23	285	18	265	18			310	08	8,000
10,000					300	26	280	24	284	19	261	16			310	11	10,000
14,000					300	32	300	33	292	20	263	22			330	12	14,000
18,000					(12,000)		300	43	289	21	273	29			300	10	18,000
24,000							290	56	279	26	284	41			310	13	24,000
30,000							290	64	283	34	285	47			290	17	30,000
40,000	290	27					290	36	289	28	285	34			270	23	40,000
50,000	290	31	279	32			280	32	288	29	278	29			270	29	50,000
	(17,000)		282	23			260	48	(46,000)						250	33	60,000
			(52,000)				59,000								(65,000)		70,000
															240	43	80,000
															(75,000)		80,000

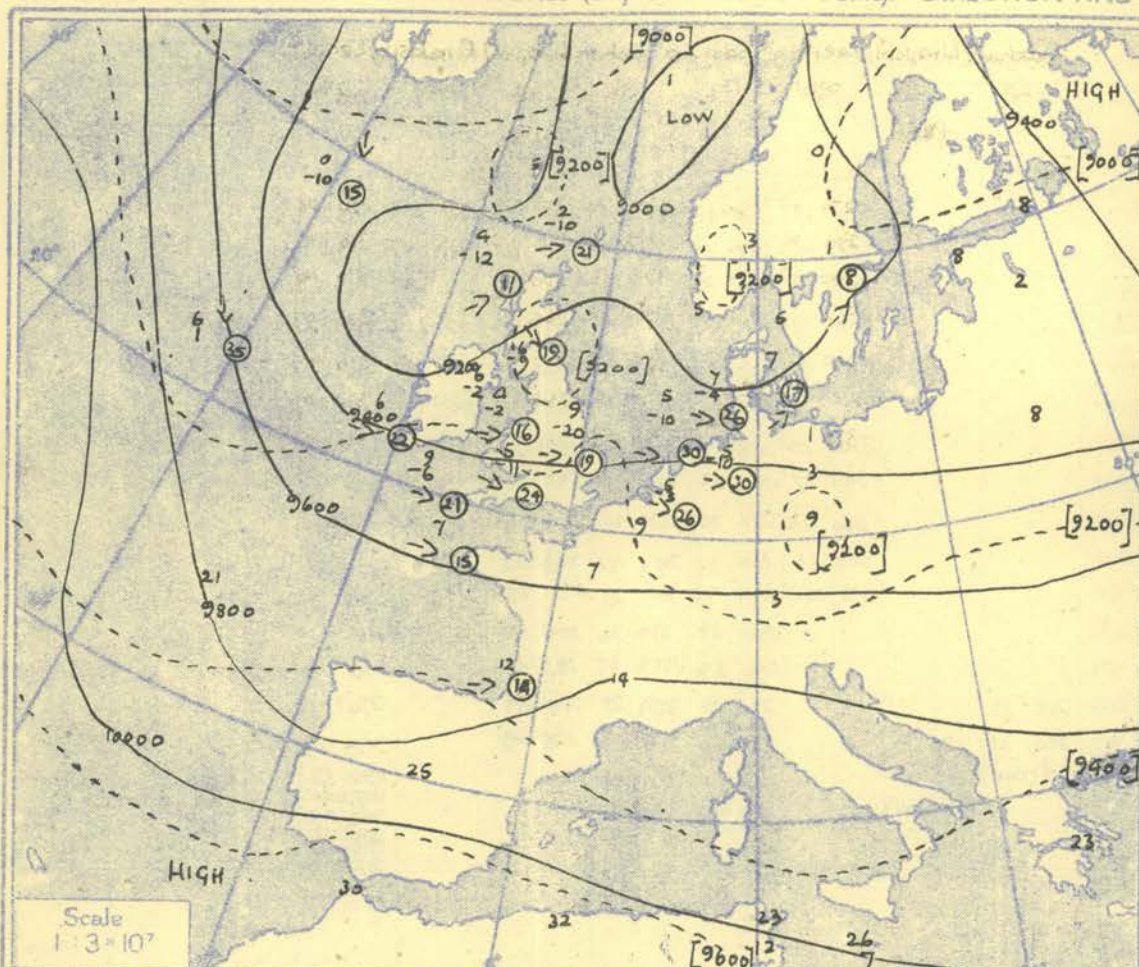
NEPHOSCOPE OBSERVATIONS

[illegible]

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

[illegible]

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15 h G.M.T.

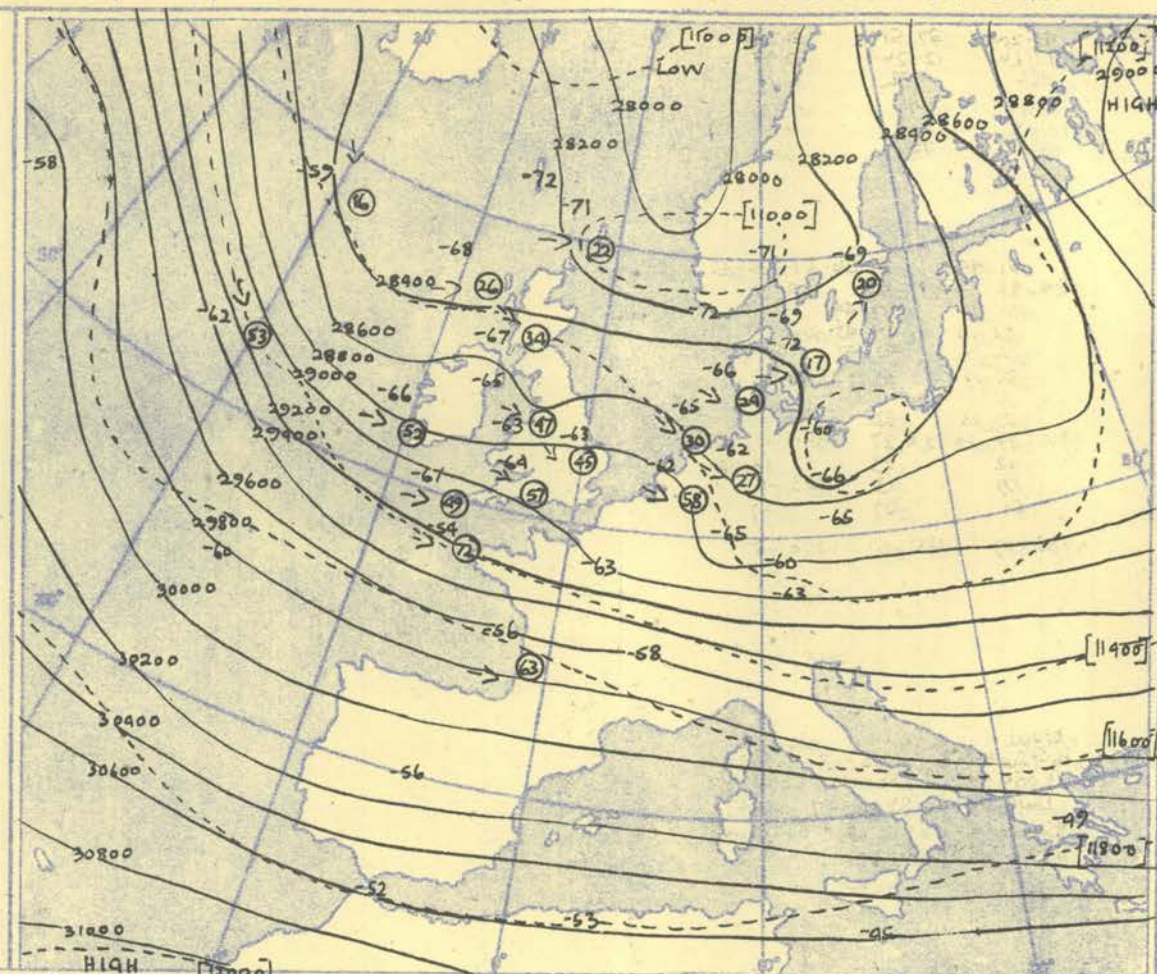


The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

TROPOPAUSE CHART at about 15h. G.M.T.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

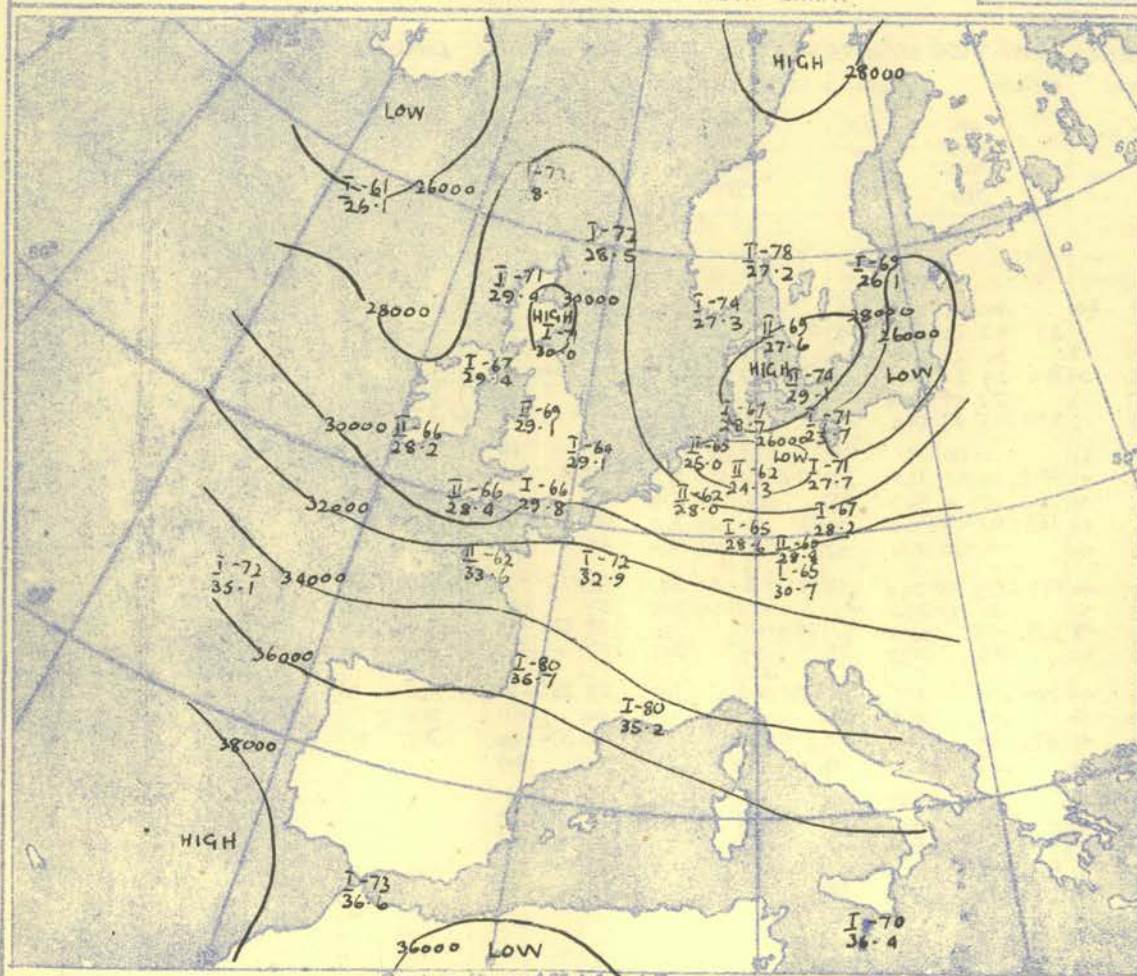
100 80 60 40 20 10 5 knots



The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

NOTES ON THE AEROLOGICAL SITUATION.

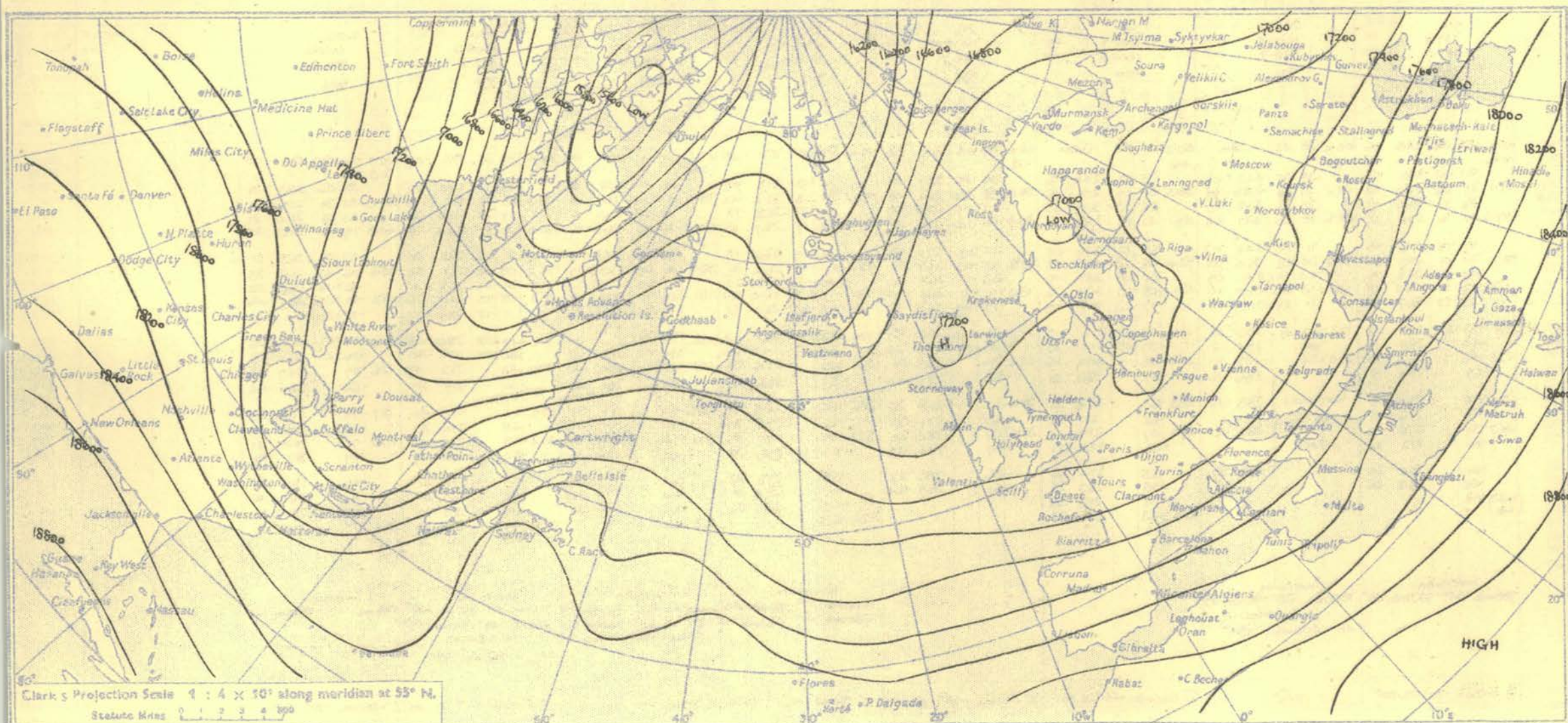
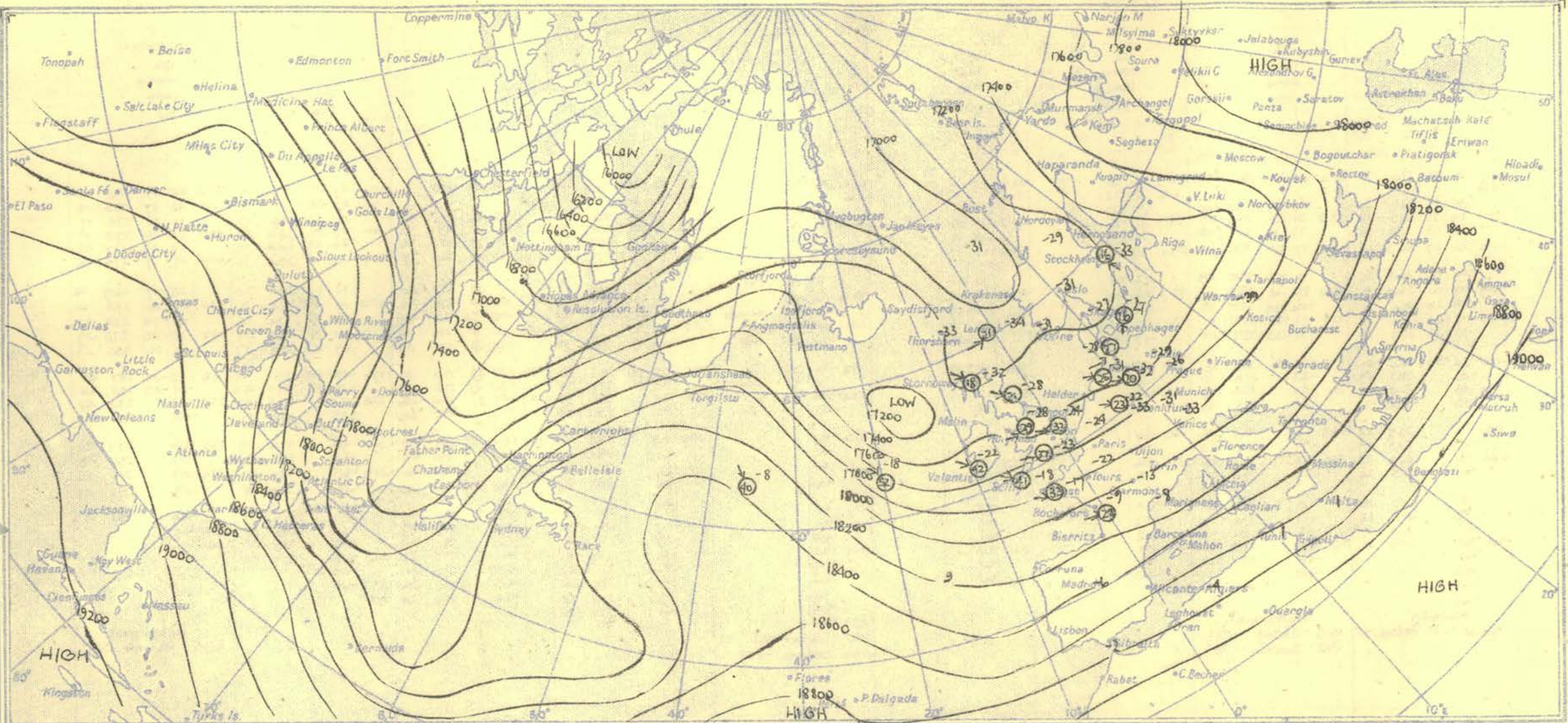
A minor warm ridge crossed the British Isles and a new cold trough formed in the Atlantic south of Iceland.



Contour lines of Height of Tropopause.
Temperature of Tropopause.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.-.

Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



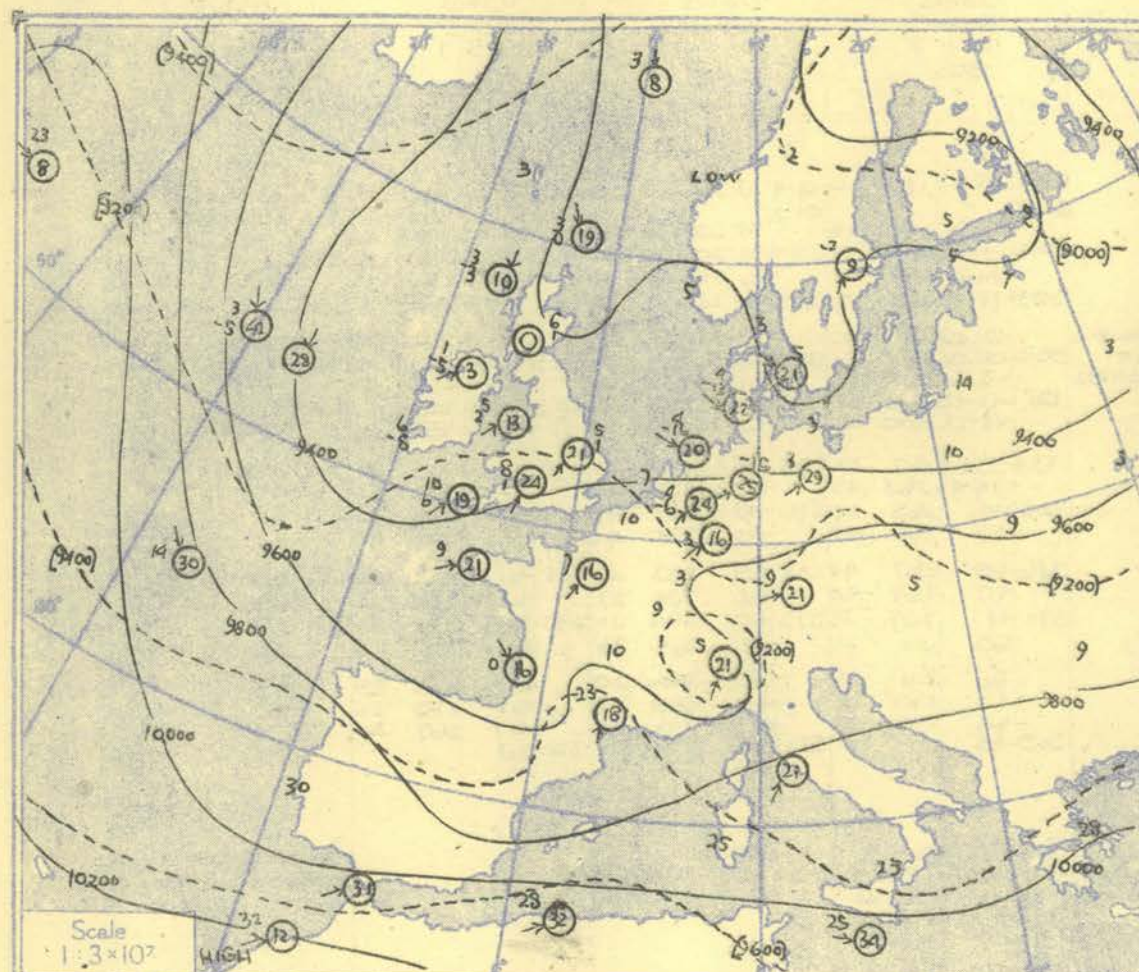
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION		
Time M.S.L.	15h. G.M.T.			15h. G.M.T.			15h. G.M.T.			15h. G.M.T.			15h. G.M.T.			15h. G.M.T.			15h. G.M.T.			15h. G.M.T.			15h. G.M.T.			15h. G.M.T.			Time M.S.L.	Pressure						
Surf	997.7 mb			1001.1 mb			1001.4 mb			1005.2 mb			1005.9 mb			1007.7 mb			1009.9 mb			1011.0 mb			1007.8 mb			1006.8 mb			Surf	1000						
Freezing	930			928			920			920			912			910			911			890			910			910			Freezing	800						
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb					
Surf	02.7	41	33	270 12	00.4	42	40	180 04	00.2	46	33		02.6	39	35		00.6	43	37		01.2	45	36	260 14	04.4	44	32	270 15	02.9	47	38	270 08	00.3	44	39	280 08	Surf	
1000	-6.8				0.2				0.6	45	32		1.4				1.6				2.1	44	35		2.6				3.0	47	38		2.1	43	37	280 08	1000	
950		35	27	249 18		36	29	280 09		37	27			34	31			37	30			37	30	271 18		38	28	271 10		40	30	249 15		37	31	278 17	950	
900	27.2	29	21	253 21	28.2	29	21	280 10	28.7	30	25		29.2	29	26		29.5	30	25		30.2	31	25	268 19	30.7	30	22	257 14	31.1	33	26	243 14	30.1	30	26	278 19	900	
850		22	13	258 16		22	14	277 08		24	14			23	19			24	20			24	15	267 21		25	17	258 16		26	22	244 15		24	22	277 22	850	
800	57.5	16	07	262 18	58.5	17	05	266 08	59.1	19	05		59.6	18	13		59.9	18	14		60.6	18	11	276 20	61.1	20	16	260 17	61.7	20	15	254 20	60.5	19	17	276 26	800	
750		10	00	263 21		11	02	244 09		12	02			12	06			11	06			14	00	276 21		11	01	272 20		13	04	269 20		13	09	269 24	750	
700	90.9	02	10	264 21	92.0	04	12	232 11	92.7	06	09		93.2	06	02		93.4	04	02		94.3	09	20	270 19	94.7	05	11	279 24	95.5	09	06	274 21	94.1	06	00	273 22	700	
650		06	24	266 21		04	14	227 10		02	18			00	09			03	10			01	23	273 22		00	24	267 28		04	22	274 25		03	14	279 27	650	
600	128	17	30	260 22	129	12	22	223 11	130	09	25		131	09	15		131	11	18		132	06	27	275 26	133	06	31	270 29	133	04	31	279 32	132	05	30	278 39	600	
550		25	38	257 21		21	33	259 15		17	32			17	28			20	25			14	31	280 28		14	31	270 33		09	44	281 37		13	36	275 39	550	
500		170	34	260 21	172	32	46	276 18	173	28	42		174	25	39		174	28	36		175	24	36	285 33	176	23	43	275 37	177	18	54	282 41	176	22	37	277 42	500	
450		46		262 19		43		276 20		38	50			33	51			36	48			35	46			30	57			28	56		31	43		31	43	450
400	220	58		262 22	221	54		265 19	223	48			225	44			224	45			226	42		281 37	227	41		280 56	228	42		277 43	227	43		273 48	400	
350		62		273 23		61		278 23		56				55				57				52		280 45		52		280 50		53		278 51		55		271 24	350	
300		280	71	268 22	283	68		269 26	285	67			287	65			286	67			289	63		283 45	289	64		281 57	291	67		274 49	288	66		277 52	300	
250		63		273 19		59		280 23		61				62				63				62		284 47		65		282 50		68		273 53		62		271 48	250	
200	366	59		267 22	369	54		277 30	371	56			373	59			371	61			375	60		281 45	375	62		280 46	376	65		280 43	374	57		278 42	200	
170		60		265 24		57		289 26		56				58				60				54		283 37		56		280 43		58		277 38		57		281 41	170	
150		60		272 28		60		276 30		55				57				61				55		281 31		58		270 39		59		276 41		58		282 43	150	
130		59		270 24		59		286 27		59				59				61				57		281 34		59		272 37		61		276 35	(134) mb	61			130	
110		65		268 27		62		280 27		62				62				62				57		279 42	523	62		272 29	523	65		275 31		63		275 35	110	
100	513	65		256 27	517	63		262 25	520	59			521	62			519	62			52		271 42		65		275 31		67		273 34	(85) mb	68			100		
90		65				64				63				62				66				66		273 28		64		280 24								90		
80		65												66				66				61		278 28												80		
70		65												66				66				61		278 28												70		
60		65												66				66				61		278 28												60		
Inversion 764 mb. -63°-346 mb. -61° Isothermal 402-385 mb. -54° 312-300 mb. -68°																																						
Tropopause	I 294 mb. -72° 28,500'				I 285 mb. -71° 29,400'				I 280 mb. -71° 30,000'				I 288 mb. -67° 29,400'				II 293 mb. -69° 29,100'				I 296 mb. -64° 29,100'				I 287 mb. -66° 29,800'				II 306 mb. -66° 28,400'				II 309 mb. -66° 28,200'				Tropopause	
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION	
Time M.S.L.	21h. G.M.T.			21h. G.M.T.			21h. G.M.T.			21h. G.M.T.			21h. G.M.T.			21h. G.M.T.			21h. G.M.T.			21h. G.M.T.			21h. G.M.T.			21h. G.M.T.			Time M.S.L.	Pressure						
Surf	997.7 mb			1001.4 mb			1001.7 mb			1004.0 mb			1005.1 mb			1007.5 mb			1008.5 mb			1008.6 mb			1007.9 mb			1007.9 mb			Surf	1000						
Freezing	943			921			920			938			910			908			895			906									Freezing	800						
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	
Surf	02.7	34	34	245 06	00.4	35	32	Calm	00.2	39	36	Calm	02.6	36	34	200 05	00.6	39	35	210 05	01.2	39	34	160 06	04.4	37	34	195 07	02.9	41	39	190 05					Surf	
1000	-0.6				0.3				0.6				1.2				1.3				2.0																	

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION	LERWICK	STORNOWAY	LEUCHARS	ALDERGROVE	LIVERPOOL	DOWNHAM MARKET	LARKHILL	CAMBORNE	STATION				
Time M.S.L.	03hrs 999.6	03hrs 1003.1	03hrs 1002.7	03hrs 1003.7	03hrs 1003.3	03hrs 1006.3	03hrs 1006.2	03hrs 1005.9	03hrs 1005.8				
Surf	999.4	1001.4	1001.8	994.7	1001.2	1001.8	999.7	995.1	1004.9				
Pressure	942	933	921	942, 964	920	922	900	912	925				
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb
Surf	02.7 33 340 07.0 4 33 30 290 04	0.8 34 31 0.8 34 31 0.8 34 31 0.8 34 31	0.2 32 30 260 07	0.1 33 33 340 03	0.6 33 34	0.1 33 33 340 03	0.6 33 34	0.1 33 33 340 03	0.6 33 34	0.1 33 33 340 03	0.6 33 34	0.1 33 33 340 03	Surf
1000	0.2 33 33 340 07.0 4 33 30 290 04	0.8 34 31 0.8 34 31 0.8 34 31 0.8 34 31	0.2 32 30 260 07	0.1 33 33 340 03	0.6 33 34	0.1 33 33 340 03	0.6 33 34	0.1 33 33 340 03	0.6 33 34	0.1 33 33 340 03	0.6 33 34	0.1 33 33 340 03	1000
950	27.5 28 25 350 18	28.6 28 25 360 10	28.4 26 26 298 09	28.7 27 27 315 04	28.7 30 28	29.3 29 26 236 18	29.4 32 30 241 14	29.5 31 29 251 18	29.5 31 29 251 18	29.5 31 29 251 18	29.5 31 29 251 18	29.5 31 29 251 18	950
900	57.7 16 14 348 16	58.9 17 15 352 12	58.9 19 14 L.V	59.0 18 14 263 04	59.1 18 17	59.9 18 15 28 23	59.9 20 18 242 19	60.1 21 19 263 18	59.9 20 18 242 19	60.1 21 19 263 18	59.9 20 18 242 19	60.1 21 19 263 18	900
850	11 08 340 16	10 06 004 11	13 09 L.V	09 05 164 04	12 11	12 08 233 20	14 12 236 23	15 11 264 18	12 08 233 20	14 12 236 23	15 11 264 18	12 08 233 20	850
800	31.2 03 00 343 19	32.3 03 02 1092.5 06 01 L.V	32.0 01 06 272 03	32.7 05 02	32.7 05 02	32.3 05 01 237 21	32.7 08 01 233 24	32.9 10 06 257 19	32.3 05 01 237 21	32.7 08 01 233 24	32.9 10 06 257 19	32.3 05 01 237 21	800
750	12.9 14 17 357 13	13.0 14 21 029 17	13.0 10 16 L.V	13.0 15 20 246 03	13.0 10 18	13.1 11 16 256 28	13.2 15 15 246 26	13.2 16 11 257 27	12.9 14 17 357 13	13.0 14 21 029 17	13.0 10 16 L.V	13.0 15 20 246 03	750
700	21 29 345 14	24 32 031 17	18 24 L.V	15 21 24 07	16 36	18 28 260 32	13 22 250 34	14 20 258 24	21 29 345 14	24 32 031 17	18 24 L.V	15 21 24 07	700
650	171 35 43 347 18	172 35 43 033 21	173 36 38 L.V	172 35 41 243 11	173 24 52	174 35 38 267 37	175 19 26 253 37	175 22 28 253 32	171 35 43 347 18	172 35 43 033 21	173 36 38 L.V	172 35 41 243 11	650
600	220 58 318 10	221 55 359 12	223 49 273 12	222 48 236 25	224 43	225 44 263 44	226 43 251 43	226 43 251 43	220 58 318 10	221 55 359 12	223 49 273 12	222 48 236 25	600
550	280 70 286 14	282 70 310 10	284 67 276 27	284 67 253 24	286 69	286 69 267 48	288 59 253 43	288 67 250 40	280 70 286 14	282 70 310 10	284 67 276 27	284 67 253 24	550
500	366 61 266 24	368 57 285 24	370 58 280 21	370 57 287 23	372 58	372 61 267 32	373 60 264 31	373 60 271 33	366 61 266 24	368 57 285 24	370 58 280 21	370 57 287 23	500
450	62 267 27	63 262 27	64 270 22	65 282 21	66 283 20	66 282 21	67 283 20	67 283 20	62 267 27	63 262 27	64 270 22	65 282 21	450
400	66 264 26	67 267 27	68 273 24	69 283 20	70 284 21	70 283 20	71 284 21	71 284 21	66 264 26	67 267 27	68 273 24	69 283 20	400
350	171 35 43 347 18	172 35 43 033 21	173 36 38 L.V	172 35 41 243 11	173 24 52	174 35 38 267 37	175 19 26 253 37	175 22 28 253 32	171 35 43 347 18	172 35 43 033 21	173 36 38 L.V	172 35 41 243 11	350
300	220 58 318 10	221 55 359 12	223 49 273 12	222 48 236 25	224 43	225 44 263 44	226 43 251 43	226 43 251 43	220 58 318 10	221 55 359 12	223 49 273 12	222 48 236 25	300
250	280 70 286 14	282 70 310 10	284 67 276 27	284 67 253 24	286 69	286 69 267 48	288 59 253 43	288 67 250 40	280 70 286 14	282 70 310 10	284 67 276 27	284 67 253 24	250
200	366 61 266 24	368 57 285 24	370 58 280 21	370 57 287 23	372 58	372 61 267 32	373 60 264 31	373 60 271 33	366 61 266 24	368 57 285 24	370 58 280 21	370 57 287 23	200
150	62 267 27	63 262 27	64 270 22	65 282 21	66 283 20	66 282 21	67 283 20	67 283 20	62 267 27	63 262 27	64 270 22	65 282 21	150
100	66 264 26	67 267 27	68 273 24	69 283 20	70 284 21	70 283 20	71 284 21	71 284 21	66 264 26	67 267 27	68 273 24	69 283 20	100
90	171 35 43 347 18	172 35 43 033 21	173 36 38 L.V	172 35 41 243 11	173 24 52	174 35 38 267 37	175 19 26 253 37	175 22 28 253 32	171 35 43 347 18	172 35 43 033 21	173 36 38 L.V	172 35 41 243 11	90
80	220 58 318 10	221 55 359 12	223 49 273 12	222 48 236 25	224 43	225 44 263 44	226 43 251 43	226 43 251 43	220 58 318 10	221 55 359 12	223 49 273 12	222 48 236 25	80
70	280 70 286 14	282 70 310 10	284 67 276 27	284 67 253 24	286 69	286 69 267 48	288 59 253 43	288 67 250 40	280 70 286 14	282 70 310 10	284 67 276 27	284 67 253 24	70
60	366 61 266 24	368 57 285 24	370 58 280 21	370 57 287 23	372 58	372 61 267 32	373 60 264 31	373 60 271 33	366 61 266 24	368 57 285 24	370 58 280 21	370 57 287 23	60
Inversion	999 mb 33-975 mb 35	1001 mb 33-974 mb 36	1002 mb 32-987 mb 36	995 mb 29-950 mb 20	1001 mb 35-975 mb 31	1002 mb 35-965 mb 38	990 mb 37-973 mb 38	500 mb 37-490 mb 38	Inversion	999 mb 33-975 mb 35	1001 mb 33-974 mb 36	1002 mb 32-987 mb 36	Inversion
Tropopause	II 315 mb -70°	II 312 mb -70°	I 296 mb -68°	II 318 mb -66°	I 297 mb -70°	I 266 mb -74°	I 271 mb -72°	I 270 mb -71°	II 368 mb -58°	Tropopause	II 315 mb -70°	II 312 mb -70°	I 296 mb -68°
STATION	LERWICK	STORNOWAY	LEUCHARS	ALDERGROVE	LIVERPOOL	DOWNHAM MARKET	LARKHILL	CAMBORNE	STATION				
Time M.S.L.	03hrs 1003.3	03hrs 1007.8	03hrs 1004.8	03hrs 1004.7	03hrs 1003.0	03hrs 1004.3	03hrs 1003.9	03hrs 1003.6	03hrs 1003.6				
Surf	999.1	1005.9	1003.9	995.8	1000.9	999.7	997.3	992.9	992.9				
Pressure	942	942	942	942	942	942	942	942	942				
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb
Surf	02.7 35 34 010 13	0.4 39 36	0.2 30 30 240 06	0.6 32 30	0.6 35 34	0.1 37 36 150 05	4.4 36 33 180 03	02.9 38 35 270 05	02.7 35 34 010 13	0.4 39 36	0.2 30 30 240 06	0.6 32 30	Surf
1000	0.9 35 34 010 13	0.4 39 36	0.2 30 30 240 06	0.6 32 30	0.6 35 34	0.1 37 36 150 05	4.4 36 33 180 03	02.9 38 35 270 05	0.9 35 34 010 13	0.4 39 36	0.2 30 30 240 06	0.6 32 30	1000
950	34 31 001 28	33 30	32 30 043 11	32 29 038 09	33 30 316 05	35 33 207 09	36 35 213 06	37 34 290 11	34 31 001 28	33 30	32 30 043 11	32 29 038 09	950
900	28.6 28 25 001 28	29.8 27 27	28.8 27 23 040 10	29.2 26 21 036 13	28.6 27 26 217 03	29.0 31 28 230 13	28.9 31 30 222 07	28.9 31 28 230 13	28.6 28 25 001 28	29.8 27 27	28.8 27 23 040 10	29.2 26 21 036 13	900
850	58.9 18 13 353 20	60.1 15 15	59.0 16 15 014 07	59.9 14 08 031 14	59.0 16 13 246 02	59.6 20 16 222 17	59.4 21 18 240 15	59.5 21 19 287 16	58.9 18 13 353 20	60.1 15 15	59.0 16 15 014 07	59.9 14 08 031 14	850
800	11 05 360 16	08 07	11 09 015 07	08 00 027 11	11 00 241 02	14 10 218 16	15 12 243 17	14 09 269 17	11 05 360 16	08 07	11 09 015 07	08 00 027 11	800
750	32.4 05 3 356 19	30.4 01 1	32.5 05 01 029 13	32.3 04 6 232 04	32.3 04 6 232 04	32.3 04 6 232 04	32.3 04 6 232 04	32.3 04 6 232 04	32.4 05 3 356 19	30.4 01 1	32.5 05 01 029 13	32.3 04 6 232 04	750
700	4.1 3 353 21	6 9	3 8 036 10	3 18 034 17	4 15 215 04	11 12 233 16	12 4 235 22	11 8 234 18	4.1 3 353 21	6 9	3 8 036 10	3 18 034 17	700
650	130 13 26 359 21	131 15 18	130 10 16 036 11	130 16 26 042 11	130 11 21 219 09	131 8 18 233 18	131 6 12 232 22	131 7 12 235 18	130 13 26 359 21	131 15 18	130 10 16 036 11	130 16 26 042 11	650
600	21 28 356 19	25 29	19 26 042 11	27 26 046 14	17 49 234 15	16 26 236 20	15 21 236 24	14 37 236 19	21 28 356 19	25 29	19 26 042 11	27 26 046 14	600
550	173 32 39 344 18	173 35 39	173 31 39 052 12	172 35 50 067 10	173 25 58 240 20	174 23 31 242 23	174 23 29 238 25	174 23 48 235 29	173 32 39 344 18	173 35 39	173 31 39 052 12	172 35 50 067 10	550
500	222 58 346 20	222 50	223 49 284 12	221 52 197 12	223 47 233 20	225 45 242 33	225 43 238 33	225 42 236 33	222 58 346 20	222 50	223 49 284 12	221 52 197 12	500
450	282 73 321 16	282 72	284 69 271 24	282 68 254 10	285 67 241 23	287 68 246 37	287 66 246 32	287 64 238 26	282 73 321 16	282 72	284 69 271 24	282 68 254 10	450
400	367 61 273 18	368 60	370 57 280 21	369 59 285 27	371 58 283 21	372 61 256 28	373 60 261 28	373 60 281 28	367 61 273 18	368 60	370 57 280 21	369 59 285 27	400
350	62 267 27	63 262 27	64 270 22	65 282 21	66 283 20	66 282 21	67 283 20	67 283 20	62 267 27	63 262 27	64 270 22	65 282 21	350
300	66 264 26	67 267 27	68 273 24	69 283 20	70 284 21	70 283 20	71 284 21	71 284 21	66 264 26	67 267 27	68 273 24	69 283 20	300
250	173 32 39 344 18	173 35 39	173 31 39 052 12	172 35 50 067 10	173 25 58 240 20	174 23 31 242 23	174 23 29 238 25	174 23 48 235 29	173 32 39 344 18	173 35 39	173 31 39 052 12	172 35 50 067 10	250
200	222 58 346 20	222 50	223 49 284 12	221 52 197 12	223 47 233 20	225 45 242 33	225 43 238 33	225 42 236 33	222 58 346 20	222 50	223 49 284 12	221 52 197 12	200
150	282 73 321 16	282 72	284 69 271 24	282 68 254 10	285 67 241 23	287 68 246 37	287 66 246 32	287 64 238 26	282 73 321 16	282 72	284 69 271 24	282 68 254 10	150
100	367 61 273 18	368 60	370 57 280 21	369 59 285 27	371 58 283 21	372 61 256 28	373 60 261 28	373 60 281 28	367 61 273 18	368 60	370 57 280 21	369 59 285 27	100
90	62 267 27	63 262 27	64 270 22	65 282 21	66 283 20	66 282 21	67 283 20	67 283 20	62 267 27	63 262 27	64 270 22	65 282 21	90
80	66 264 26	67 267 27	68 273 24	69 283 20	70 284 21	70 283 20	71 284 21						

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h. G.M.T.



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

48 ON 17:0W				47 N 12:3W				53 N 00:4E																				Time M.S.L. Surf Freezing			
12h 1019 mb 1013 mb 920 mb				14h 1010 mb 1006 mb 940 mb				14h 10012 mb 993.1 mb 905 mb				mb mb mb mb				mb mb mb mb				mb mb mb mb				mb mb mb mb							
Pressure mb	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Height ft./100	Temp. °F	Dew °F	Pressure mb			
Surf		46	37		42	38	031	43	42																			Surf			
1000	50	44		2.6	41		2.7																					1000			
950		37	35		33	33																						950			
900		27			28		23	4	31	24																		900			
850		22			20				27	22																		850			
800		17			16		60.1	23	22																			800			
750		10			11																							750			
700	966	08		24.1	04		24.0	10																				700			
650		-03			-04																							650			
600		-07			-12		132	-05																				600			
550		-11			-23																							550			
500	178	-21		174	-35		175	-24																				500			
450																												450			
400							226	-45																				400			
350																												350			
300							288	-69																				300			
250																												250			
200																												200			
170																												170			

cloud:-
4/10 950-
8 640 mb
4/10 950-
8 710 mb
3/10 940-
8 730 mb

Surface
Wind NW
34-40 kts

cloud:-
4/10 950-
8 490 mb
4/10 950-
8 840 mb

cloud:-
7/8 Sh 960-
9 11 mb
6/8 AS 812-
8 435 mb

DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

Place	Liverpool		W. Observer		N. Observer		Ronaldsway		Pembroke Dock		Aldergrove		Leuchars		Ronaldsway		PILAR		Place
Time	03h		08h		09h		09h		09h		15h		15h		15h		5-MAR-1951		Time
Type	PILAR										PILAR		PILAR						Type
Feet	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Feet.
Surf.	230	10	090	10	020	26	020	07	080	02	010	15	020	10	090	16			Surf.
1,000	227	09	010	31	030	24	040	10	090	07	011	15	023	12	020	16			1,000
2,000	209	07	010	32	030	25	030	10	050	07	008	15	022	11	010	16			2,000
3,000	209	07	010	30	030	24	030	13	030	10	004	17	039	15	020	20			3,000
4,000	201	08	010	30	020	23	010	13	030	07	001	17	014	11	020	20			4,000
5,000	220	09	010	28	010	24	010	10	350	07	003	17	014	13	020	14			5,000
6,000	227	11	010	24	010	28			320	03	009	17	023	15	020	12			6,000
8,000	244	12	010	25	010	25			230	05	018	17	025	16	030	17			8,000
10,000	237	13	010	28	010	28			260	07	027	19	025	16					10,000
14,000	230	18	360	30	010	34					031	21	029	12					14,000
18,000	255	33	350	30	010	36					040	18	023	12					18,000
24,000	258	31	340	39	010	58					188	12	269	18					24,000
30,000	256	26	340	52	010	59					309	10	281	18					30,000
40,000	270	32	330	42	(26,000')						290	24	284	23					40,000
50,000	275	23									287	29	273	23					50,000
	272	36																	
	(57,000')												(48,000')						

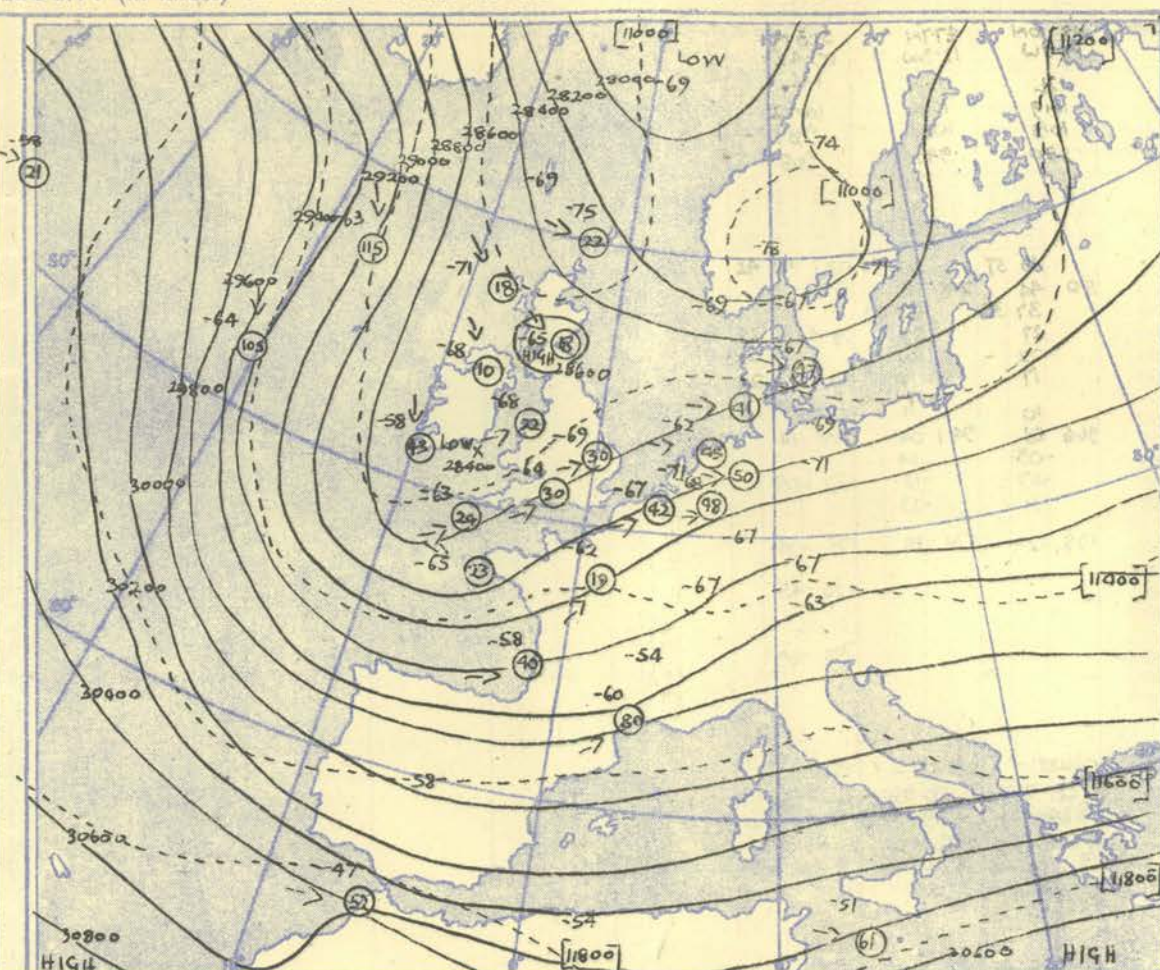
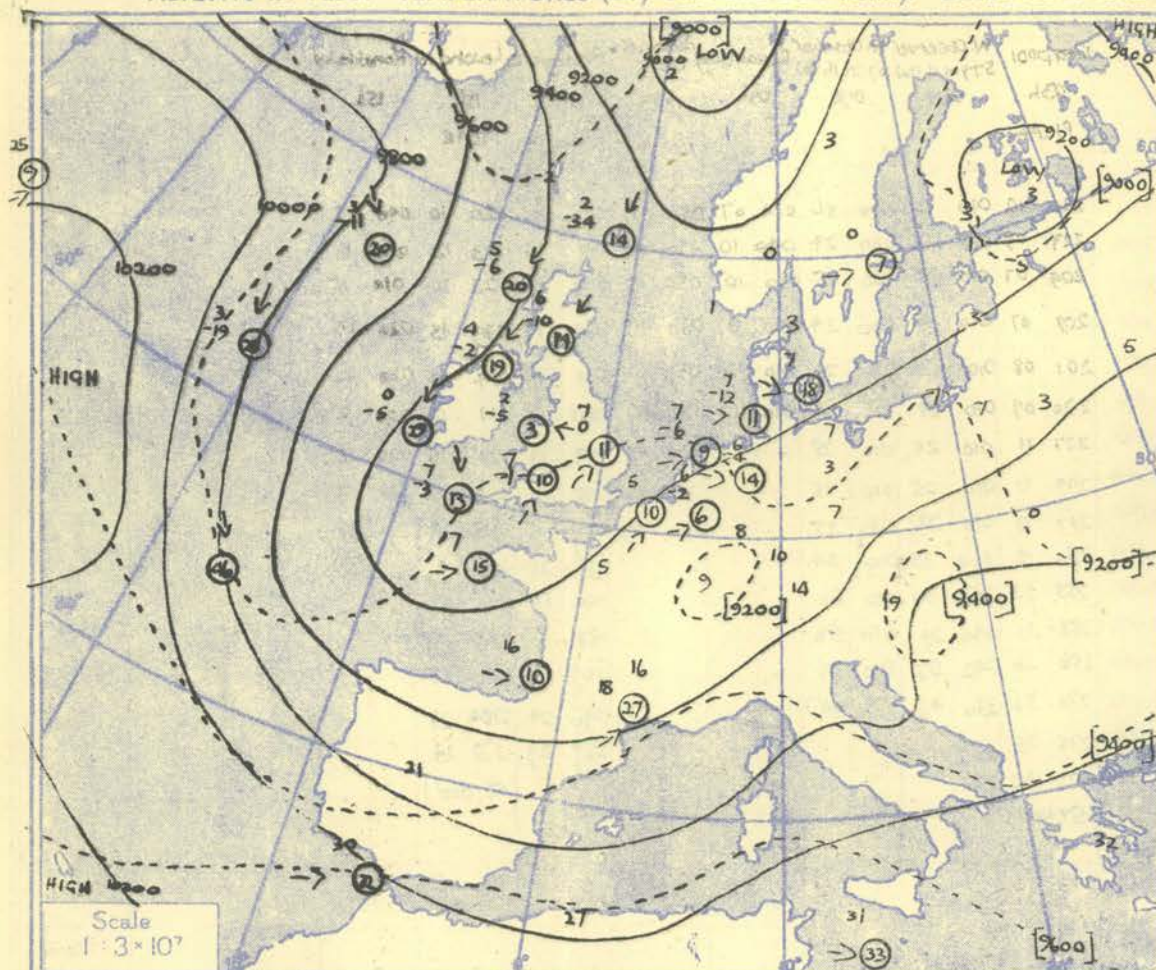
NEPHOSCOPE OBSERVATIONS

[illegible]

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS

Ship	WEATHER OBSERVER				WEATHER OBSERVER				WEATHER WATCHER				WEATHER WATCHER				WEATHER WATCHER				WEATHER WATCHER				WEATHER EXPLORER						Ship
Lat/Long	57-6 N 16-2 W				57-6 N 16-2 W.				52-7 N 18-3 W				52-9 N 18-7 W				52-9 N 18-8 W				52-7 N 19-7 W				54-3 N 19-9 W						Lat/Long
Pressure	Time	15h.		G.M.T.	21h.		G.M.T.	03h.		G.M.T.	09h.		G.M.T.	15h.		G.M.T.	21h.		G.M.T.	21h.		G.M.T.			G.M.T.	Time					
	M.S.L.	1021		mb	1022		mb	1012		mb	1017		mb	1023		mb	1027		mb	1022		mb			mb	M.S.L.					
	Surf	1021		mb	1022		mb	1012		mb	1017		mb	1023		mb	1027		mb	1022		mb			mb	Surf					
	Freezing	940		mb	950		mb	930		mb	920		mb	920		mb	920		mb	930		mb			mb	Freezing					
Pressure	Height ft./100	Temp.	Dew	Wind	Height ft./100	Temp.	Dew	Wind	Height ft./100	Temp.	Dew	Wind	Height ft./100	Temp.	Dew	Wind	Height ft./100	Temp.	Dew	Wind	Height ft./100	Temp.	Dew	Wind	Height ft./100	Temp.	Dew	Wind	Pressure mb		
	Dir. Vel.	°F.	°F.	knots	Dir. Vel.	°F.	°F.	knots	Dir. Vel.	°F.	°F.	knots	Dir. Vel.	°F.	°F.	knots	Dir. Vel.	°F.	°F.	knots	Dir. Vel.	°F.	°F.	knots	Dir. Vel.	°F.	°F.	knots			
Surf	42	41	007	10	42	37	290	11	43	35	330	30	46	29	340	30	47	43	348	21	46	41	335	15	45	32	360	19	Surf		
1000	5-6	40	29	349	11	5-7	39	35	275	15	3-3	41	34	330	31	4-5	44	37	335	26	6-1	44	40	351	22	7-2	43	37	343	15	1000
950	33-4	26	17	334	09	33-4	26	17	334	15	31-1	27	24	335	34	32-4	29	26	347	36	34-0	29	26	358	23	35-1	29	25	355	16	950
900	22	12	335	13	21	20	268	14	21	18	340	36	23	22	354	36	23	16	360	23	25	18	005	18	33-7	28	21	005	21	900	
850	63-8	17	05	338	20	63-5	15	14	261	12	61-3	16	08	341	39	62-9	19	10	008	37	64-3	19	01	001	25	65-6	19	09	008	18	850
800																															800
750	11	-03	336	18	09	07	269	11	09	03	342	40	12	03	010	36	11	-10	001	27	13	00	352	18	11	-11	351	25		750	
700	97-4	00	-11	334	20	96-9	03	01	272	16	94-6	03	-05	345	42	96-5	05	-05	017	31	97-8	03	-19	359	28	99-4	11	-06	343	25	700
650	-05	-19	330	22	-03	-17	288	20	-05	-11	342	44	-03	-15	019	27	-05	-26	358	28	-07	-08	338	36	-06	-24	338	32		650	
600	135	-11	-26	329	27	134	-07	-11	309	36	132	-14	-16	336	45	134	-11	-26	008	29	135	-09	-32	355	31	138	03	-11	335	48	600
550	-16	-41	330	37	-14	-26	312	42	-22	-27	333	59	-19	-36	002	36	-15	-36	353	47	-05	-17	339	52	-19	-39	350	44		550	
500	178	-24	-47	331	46	178	-21	-30	331	54	175	-27	-38	331	71	177	-25	-45	357	54	179	-23	-41	351	53	182	-11	-23	346	49	500
450	-36	-56	330	54	-29	-37	332	60	-31	-48	330	96	-31	-54	352	76	-30	-46	351	70	-19	-32	350	56	-33	-51	014	73		450	
400	229	-44	335	74	229	-38	-47	352	74	225	-40	-57	333	88	228	-41	351	82	-53	349	83	234	-31	-43	352	69	22-8	-42	017	82	400
350	-53	339	101		-50	353	92		-50	341	75		-51	353	88		-51	351	93		-45	353	70		-54	013	102		350		
300	291	-63	345	115	292	-64	334	93	288	-55	338	76	291	-58	355	95	292	-64	351	105	298	-59	351	90	291	-66	360	114		300	
250	-68	347	109		-75	341	11		-55	335	84		-62	351	78		-78	346	114		-72	344	84		-77	013	104		250		
200	376	-62	351	60	375	-70			376	-55	343	70	377	-62	352	66	375	-80	343	99	382	-82	345	72	374	-70	004	58		200	
170	-62	353	46		-56	350	54		-56	350	54		-62	353	54		-75	334	89		-76	345	60		-68	355	42		170		
150	-61	352	44						438	-58	338	52					-71	318	71		-75	347	56		-70	340	38		150		
130	-61	346	35						-58	337	57						-72	313	71		-73	347	47		-70	310	36		130		
110	-61	343	28						-62	336	51						-72	101	79		-73	346	35		-73	328	44		110		
100	523	-60	343	36					524	-64	336	41					-72				524	-74	344	37	518	-74	328	37		100	
90	(83mb)	-65	342	36					-67								-75				-75	346	36		-74	316	32		90		
80									-69								-75				-76									80	
70																	-77													70	
60																	-81													60	
		</																													

HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15 h G.M.T.



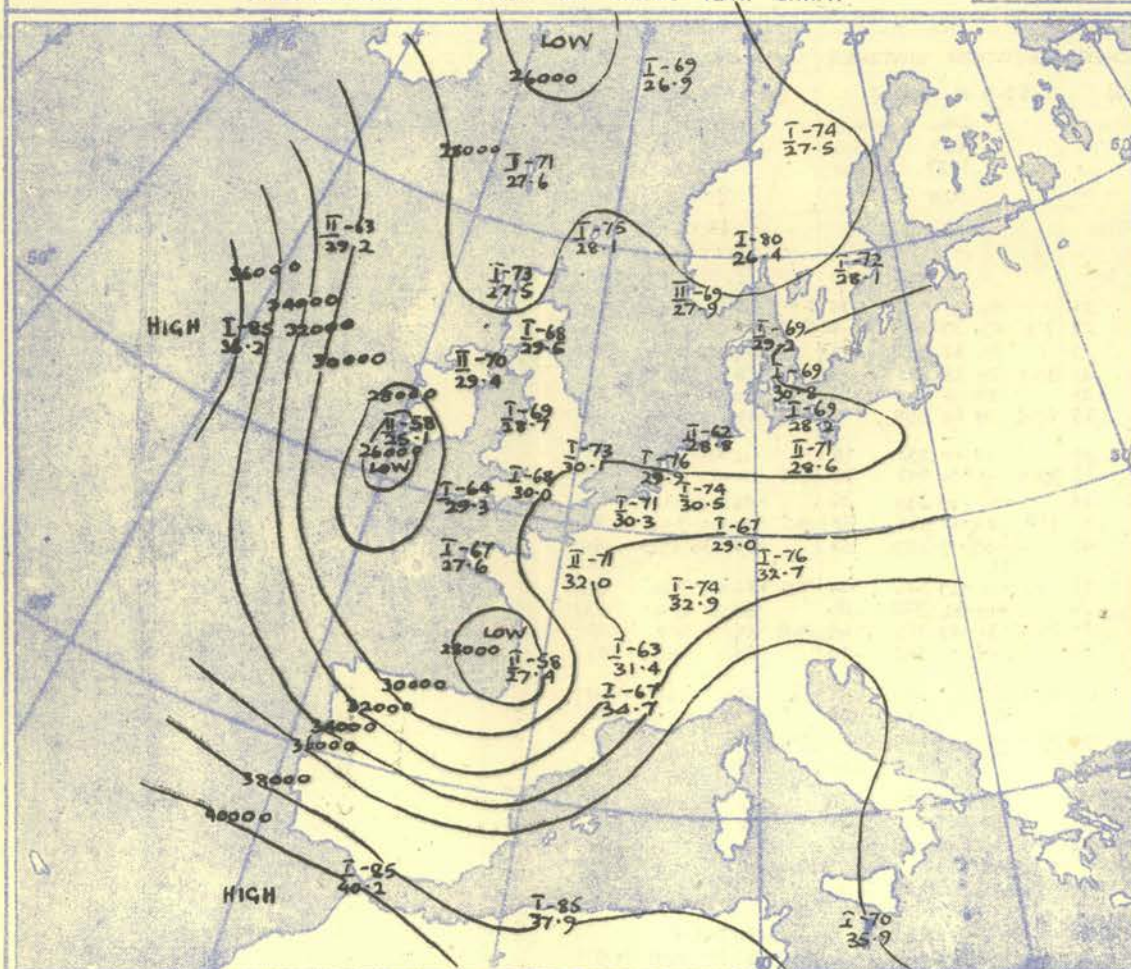
The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

100 80 60 40 20 10 knots.

The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

TROPOPAUSE CHART at about 15h. G.M.T.



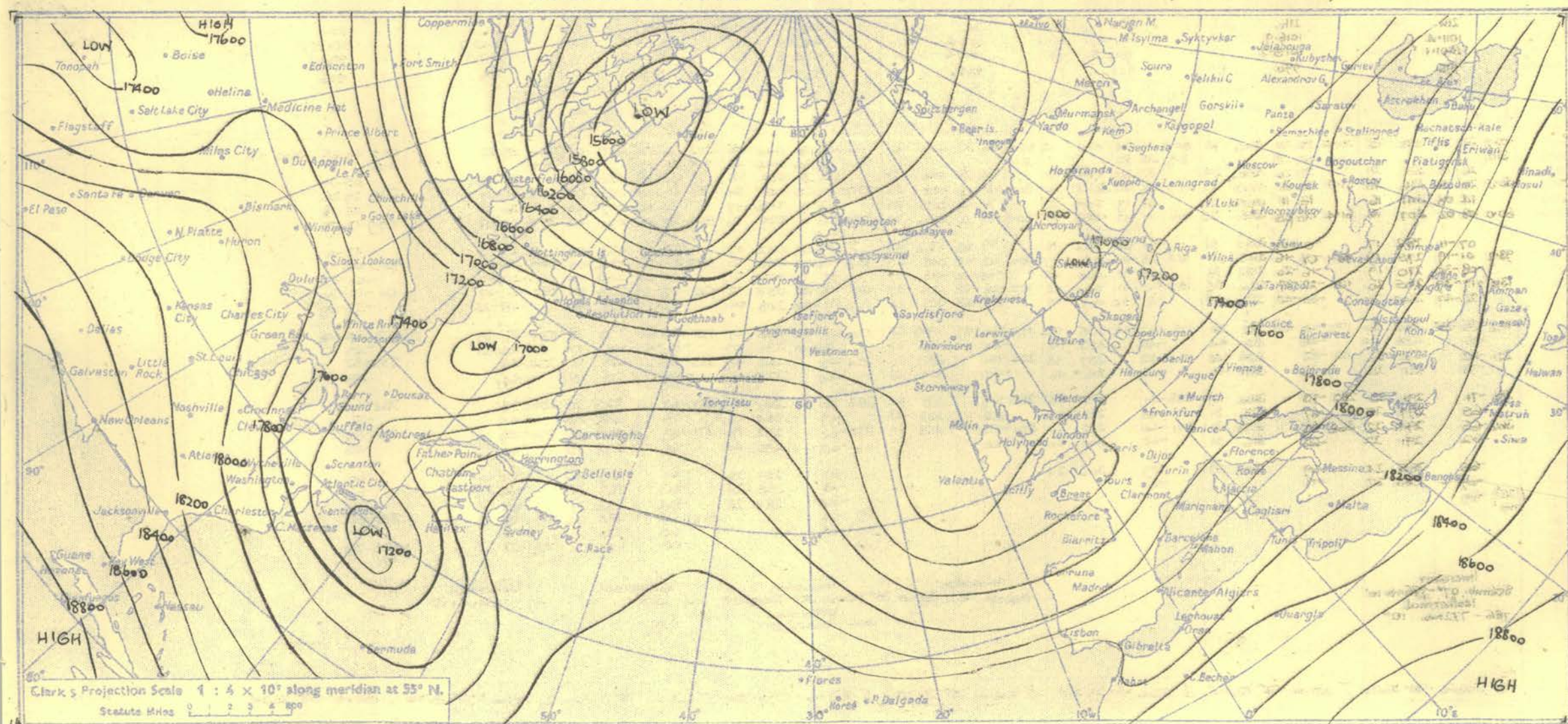
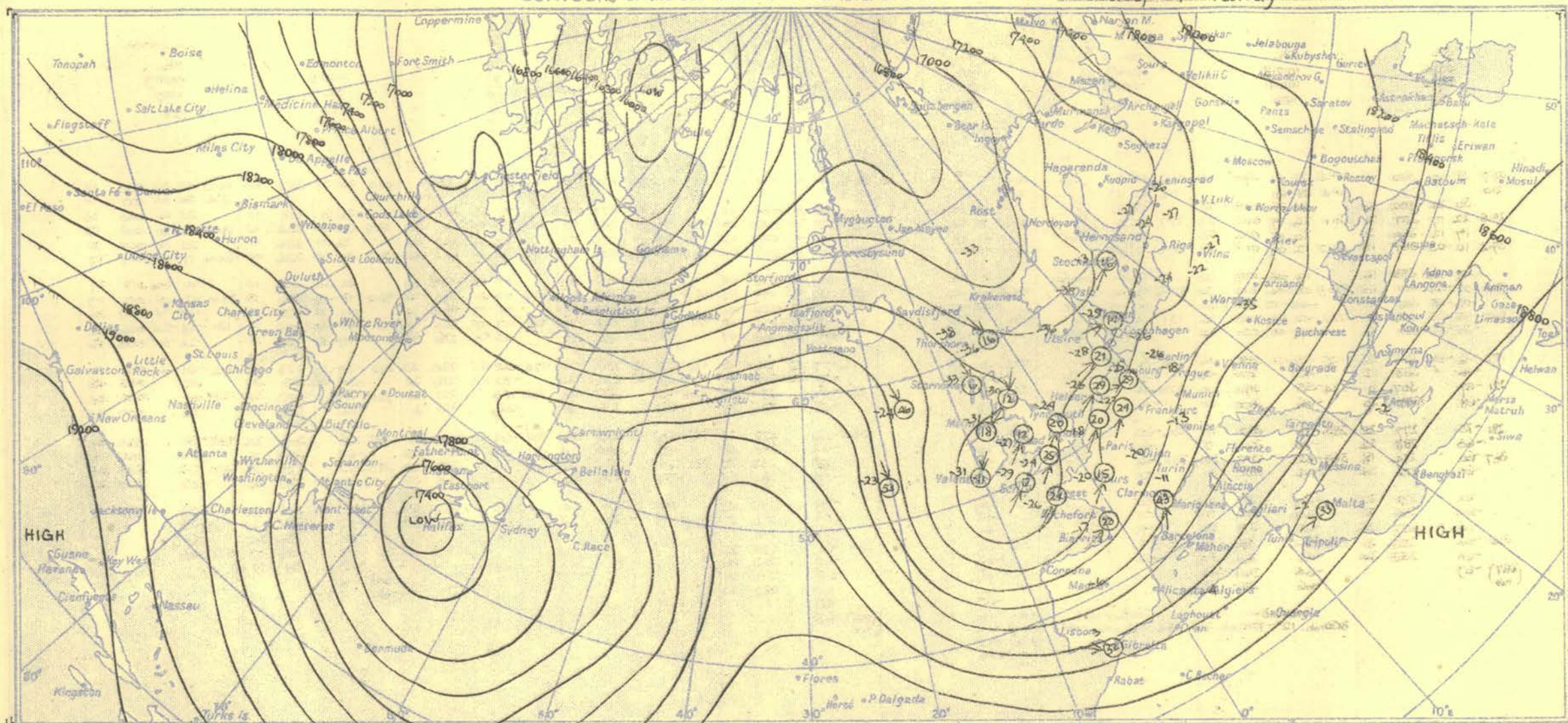
Contour lines of Height of Tropopause.
Temperature of Tropopause.

NOTES ON THE AEROLOGICAL SITUATION.

A warm ridge south of Greenland moved east. This coupled with cooling over the Bay of Biscay and slight warming over eastern Europe sharpened a cold trough which moved slowly east over Ireland during the day.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



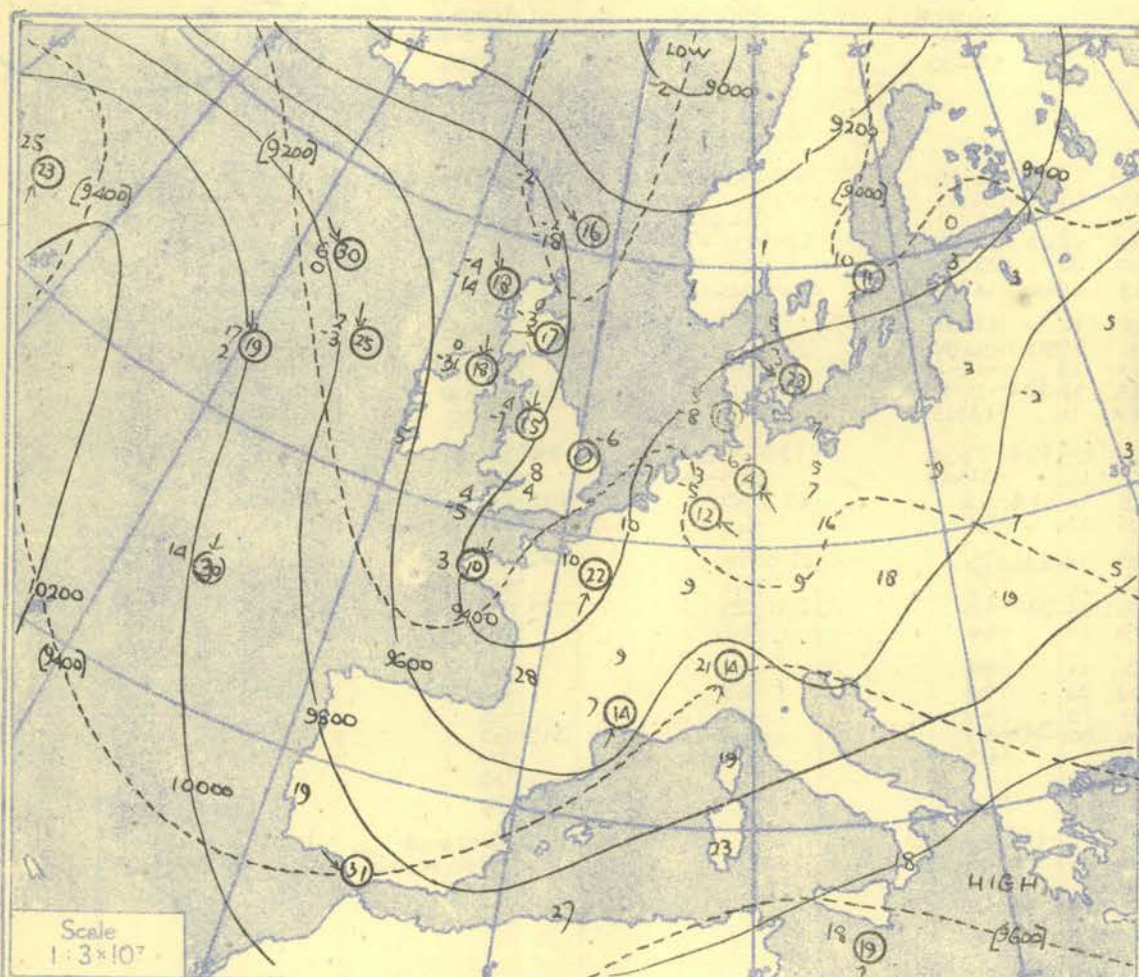
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																																																																																																																																																																																																																																																																																																																															
Time M.S.L. Surf Pressure	15h. 1007.6 997.4 967	G.M.T. mb mb mb	15h. 1012.8 1011.1 950	G.M.T. mb mb mb	15h. 1006.9 1006.0 928	G.M.T. mb mb mb	15h. 1007.3 998.1 932	G.M.T. mb mb mb	15h. 1004.3 1002.2 930	G.M.T. mb mb mb	15h. 1003.9 999.5 913	G.M.T. mb mb mb	15h. 1002.7 986.3 900	G.M.T. mb mb mb	15h. 1003.4 992.7 915	G.M.T. mb mb mb	15h. 1008.9 1007 930	G.M.T. mb mb mb	15h. 1007.3 998.1 932	G.M.T. mb mb mb	15h. 1003.9 999.5 913	G.M.T. mb mb mb	15h. 1002.7 986.3 900	G.M.T. mb mb mb	15h. 1003.4 992.7 915	G.M.T. mb mb mb	15h. 1008.9 1007 930	G.M.T. mb mb mb	15h. 1007.3 998.1 932	G.M.T. mb mb mb	15h. 1003.9 999.5 913	G.M.T. mb mb mb																																																																																																																																																																																																																																																																																																																																																																																																					
																																	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb	Height ft./100	Temp. °F.	Dew °F.

METEOROLOGICAL LIBRARY
 Smithsonian Institution
 Valentia
 03rd 1019 1019
 MAR 1961
 METEOROLOGICAL LIBRARY

[illegible]

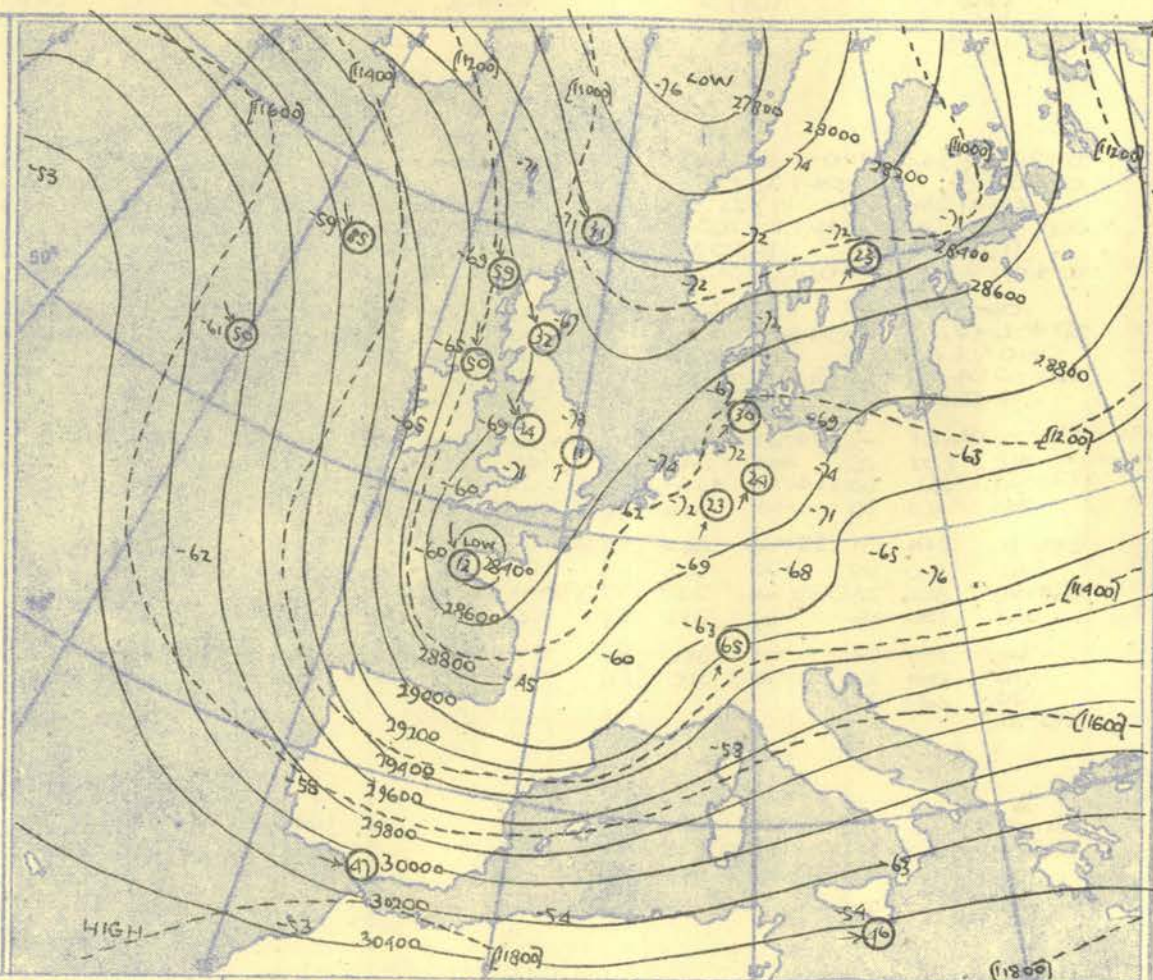
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point), DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h G.M.T.



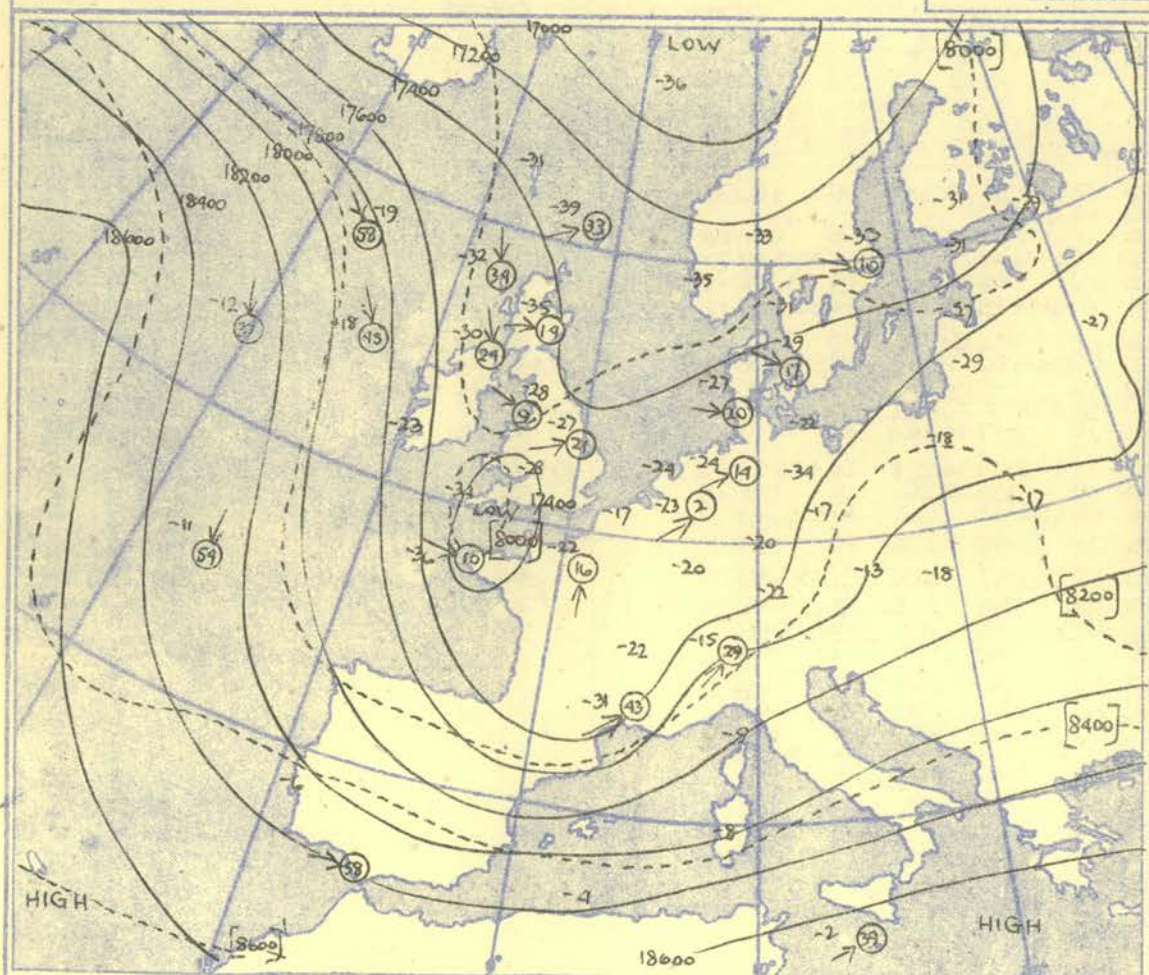
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. $52\frac{1}{2}^\circ$ N.

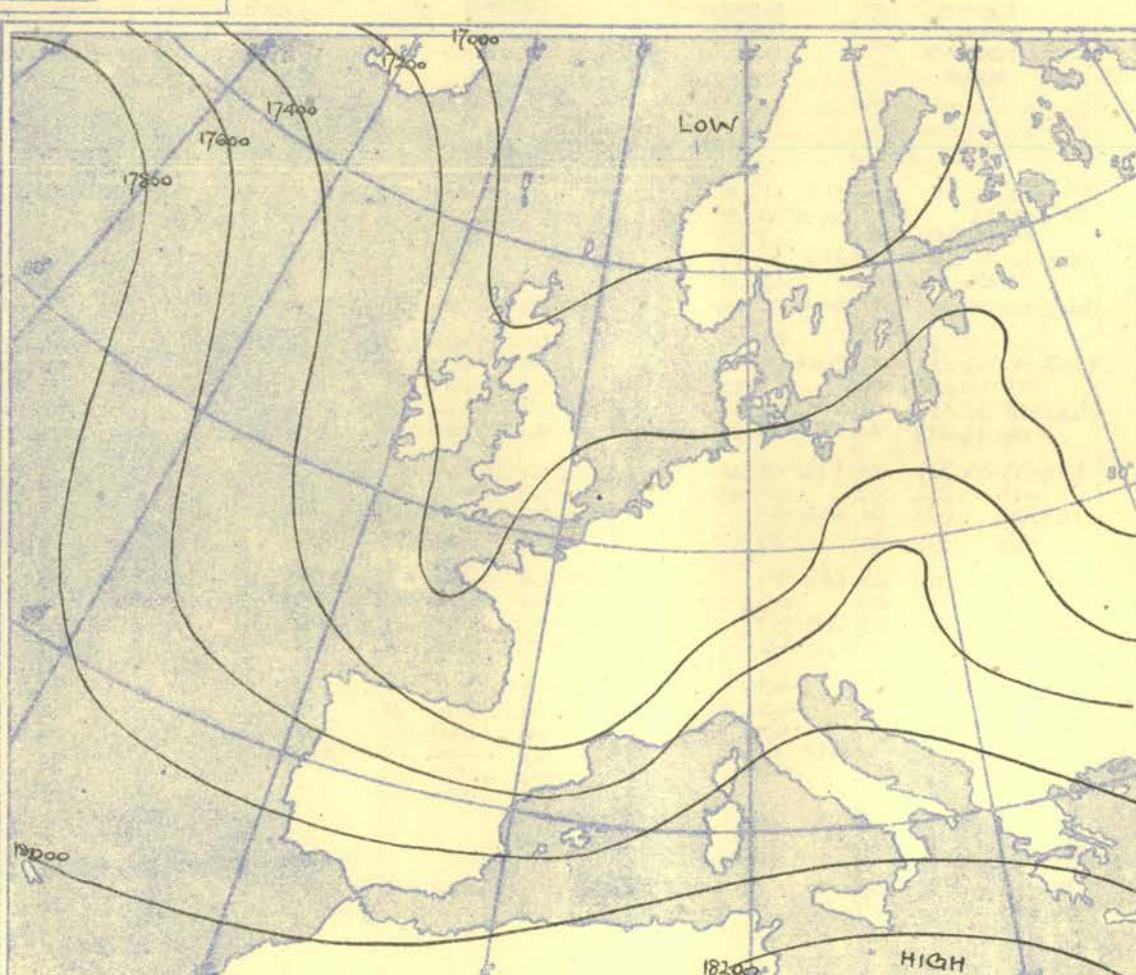
100 80 60 40 20 10 5 knots



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb.



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



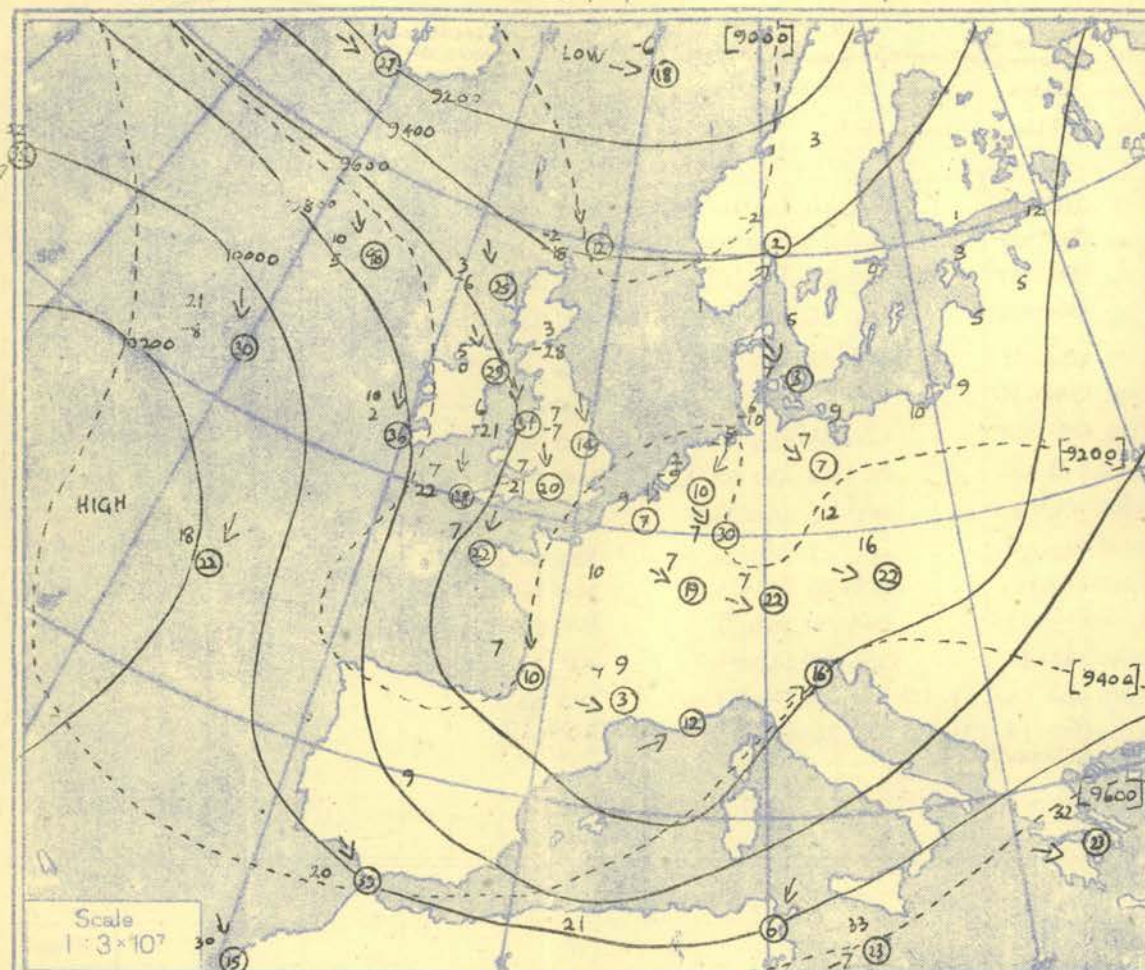
Isopleths of Thickness 500-1000 mb.

DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

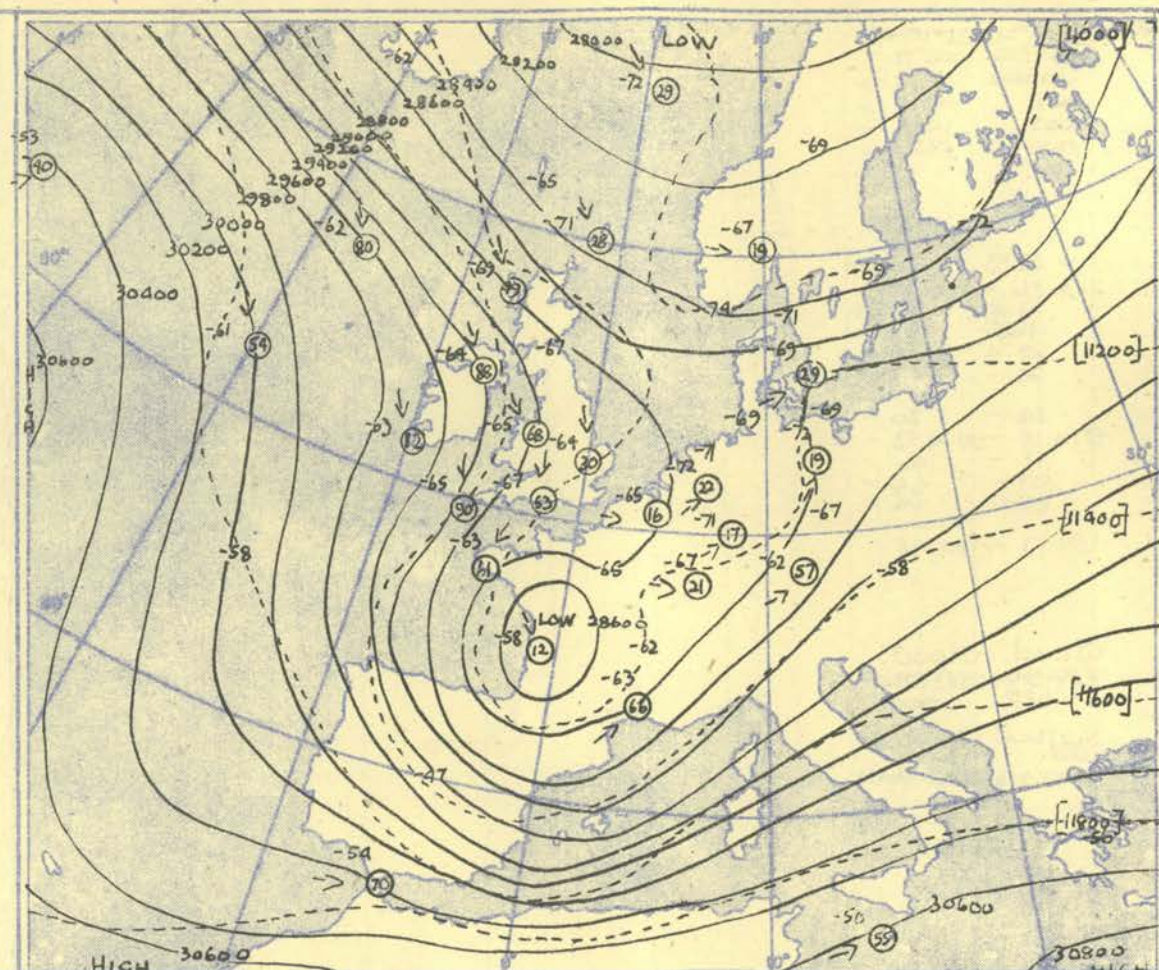
NEPHOSCOPE OBSERVATIONS

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

Ship	Weather Observer				Weather Observer				Weather Observer				Weather Watcher				Weather Watcher				Weather Watcher				Weather Watcher				Weather Explorer				Ship																										
Lat/Long	57.4N 16.2W				57.3 16.2 W				57.3N 16 W				57.3N 16.3W				52.7N 19.9W				52.9 N 20.0W				52.5N 20W				52.4N 19.8W				54.6N 12.8W				Lat/Long																						
Pressure	03h				09h				15h				21h				03h				09h				15h				21h				03h				Time																						
	G.M.T.				G.M.T.				G.M.T.				G.M.T.				G.M.T.				G.M.T.				G.M.T.				G.M.T.				M.S.L.																										
	mb				mb				mb				mb				mb				mb				mb				Surf																														
	mb				mb				mb				mb				mb				mb				Freezing																																		
Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100		Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb																										
Surf	40	30	330	21	43	38	280	30	45	38	290	28	44	40		46	42	300	15	44	40	299	15	43	32	270	12	45	36		44	34	358	06	Surf																								
1000	5.8	37	23	318	18	4.9	41	37	261	36	4.3	43	36	284	42	3.7	43	37		7.8	41	38	319	12	7.9	40	34	299	15	8.1	39	32	275	12	7.3	42	34	6.0	42	32	295	15	1000																
950	33.4	24	17	320	24	34	31	265	36	36	30	290	40	38	29		34	32	315	13	33	26	300	14	32	28	278	15	35	30		35	24	333	13	950																							
900	33.4	24	17	318	24	34	31	265	36	36	30	290	40	38	29		34	32	315	13	33	26	300	14	32	28	278	15	35	30		35	24	333	13	900																							
850	18	13	315	21	22	13	283	42	24	17	300	44	27	19		23	20	305	17	25	09	303	14	26	15	287	19	34	24		23	17	332	14	850																								
800	63.4	14	06	316	22	63.1	16	16	287	35	62.7	20	12	298	38	62.3	22	14		66.1	23	02	305	17	66.2	26	10	305	18	66.4	27	06	293	23	66.2	30	09	64.2	18	08	328	11	800																
750	11	02	314	27	11	09	292	33	16	09	297	44	16	08	For Winds		19	01	309	17	22	03	308	21	24	00	303	27	26	03	For Winds	11	03	330	20	750																							
700	26.9	06	00	314	30	26.6	08	01	303	38	26.5	10	05	296	48	26.3	16	05		10.0	17	02	319	19	10.1	17	13	311	23	10.1	21	08	309	30	0.1	28	08	97.7	01	19	324	25	700																
650	04	09	315	40	05	06	307	42	03	01	296	50	09	00	See		12	05	334	30	12	21	314	23	16	18	316	33	15	00	See	01	19	324	25	650																							
600	135	03	16	316	48	135	01	10	308	46	135	03	08	297	56	135	02	07		139	06	14	344	34	139	06	30	316	27	140	08	22	322	39	140	09	01	135	04	21	330	37	600																
550	14	25	315	50	09	14	314	56	09	14	298	51	05	14	Page 3.		03	24	344	34	03	27	322	32	02	29	324	39	02	03	Page 3.	11	23	332	54	550																							
500	179	17	25	313	58	79	16	19	313	74	79	14	20	300	60	179	11	26		183	14	34	345	37	184	13	32	329	38	184	12	37	320	39	185	07	13	179	18	28	330	45	500																
450	25	31	311	69	25	28	316	63	24	30	305	74	19	35		22	44	345	56	22	44	345	56	22	42	315	52	17	24		27	35	333	57	450																								
400	230	33	39	319	75	230	34	37	309	70	230	35	41	307	81	231	31	46		235	32	52	341	40	236	31	51	341	41	237	33	47	317	48	237	29	36	231	35	43	338	64	400																
350	45		323	79	48		312	81	47		307	77	42			45		339	47	45		339	47	45		349	44	47		313	52	41							350																				
300	194	59		325	85	393	61		309	89	293	62		306	80	295	67			300	61		335	50	299	60		350	53	300	61		315	54	301	55					300																		
250		73		329	91						74			84			69				75			333	49		74		346	52		76		320	63		75				250																		
200	277	83		333	88						377	79		311	84	379	82				382	83		329	55	383	82		346	57	382	85		321	66	385	90				200																		
170		76		338	60						70			314	63	74					78			328	61		76		344	52		82		322	56		83				170																		
150		72		339	47						71			315	57						73			330	56		73		337	48		77		323	52		82				150																		
130		71		334	37						72			315	53						75			327	47		75		335	48		78		321	50		80				130																		
110	520	74		330	33						71			315	47						74			324	42		78		328	51		81		315	47		79				110																		
100		75		326	30						620	68		315	39						79			322	36	524	76		310	47	523	82		315	45	108	79				100																		
90		77		325	30						70			314	18						79			312	39		76		308	44		82		322	45	mb				90																			
80		78		325	30						71			314	38						79			312	39		76		312	39		82		330	42					80																			
70											72			313	27						79			321	32		79		321	32		82		326	32					70																			
60											75			313	15																										60																		
Inversion				816 mb 13 - 800 mb 14				Inversion				750 mb 16 - 730 mb 18				Inversion				825 mb 22 - 808 mb 24				Inversion				800 mb 26 - 785 mb 27				Inversion				804 mb 29 - 850 mb 34				Isothermal				454 - 444 mb - 27°															
Isothermal				800 - 772 mb 14°				Isothermal				730 - 718 mb 18°				Isothermal				755 - 740 - 20°				Isothermal				765 - 750 - 22 mb				Isothermal				800 - 785 mb 30°				Isothermal																			
673 - 635 - 4°																																																											
547 - 528 - 15°																																																											
Tropopause				203 mb - 83° 37,400				N.R.				205 mb - 81° 37,200				200 mb - 82° 37,900				204 mb - 84° 37,800				259 mb - 75° 33,100				207 mb - 89° 37,600				190 mb - 92° 39,500				N.R.				Tropopause																			



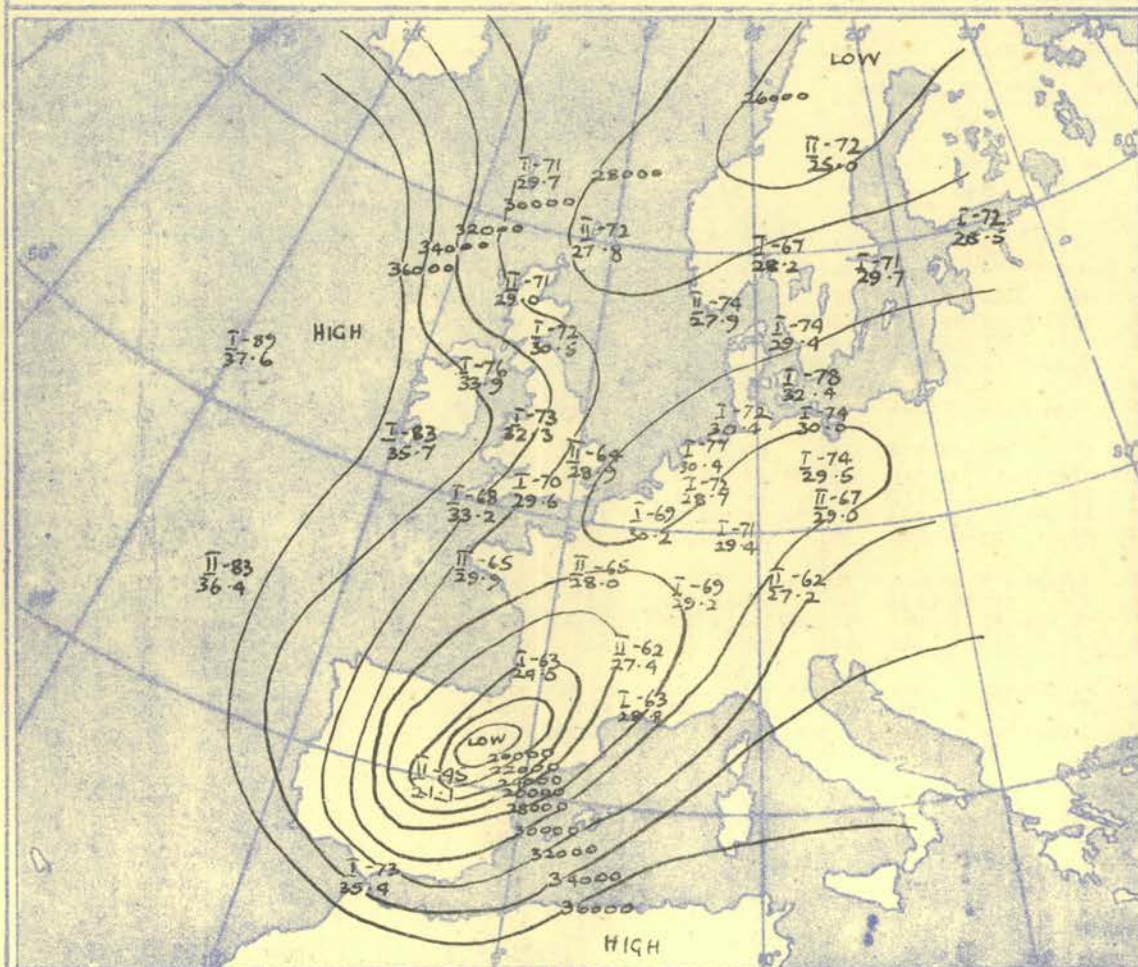
Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.
100 80 60 40 20 10 0 knots



TROPOPAUSE CHART at about 15h. G.M.T.

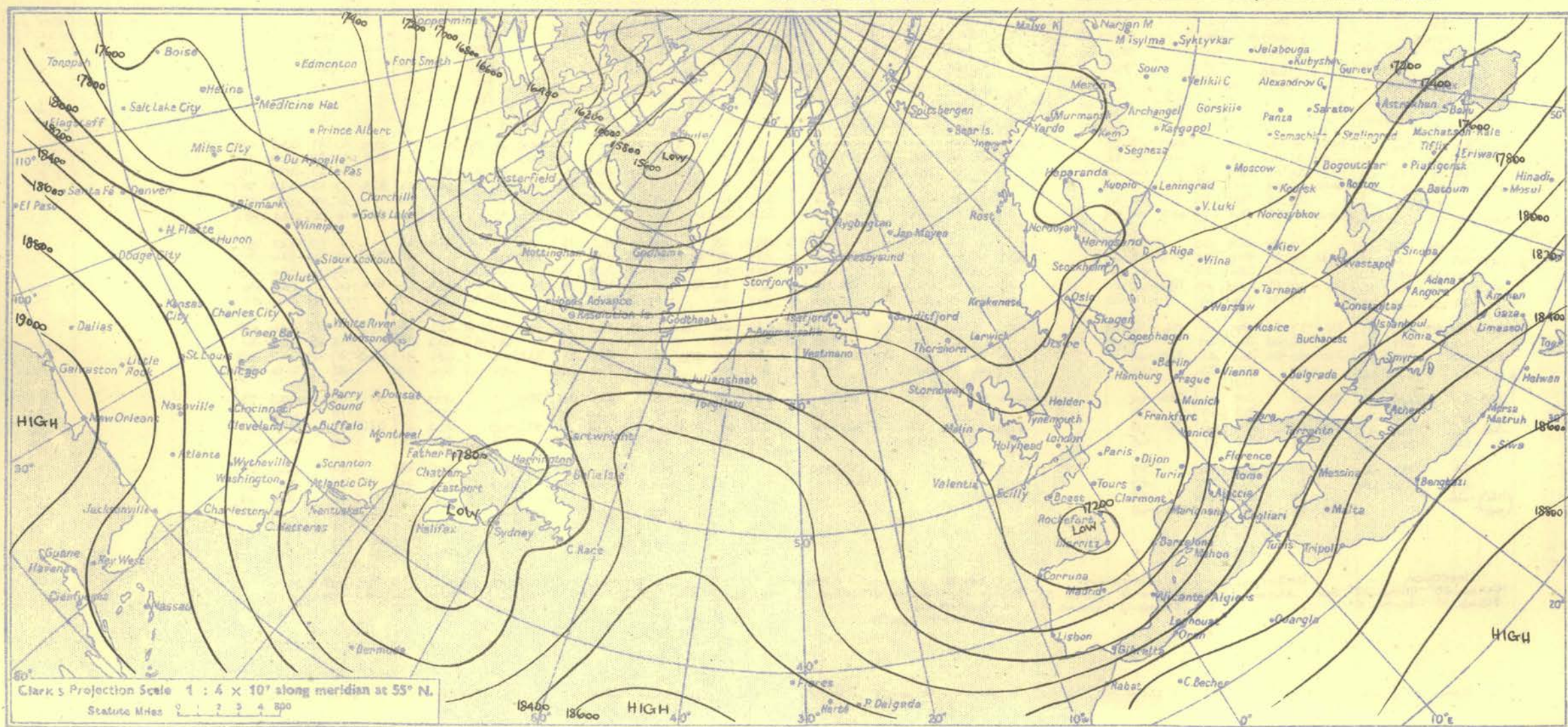
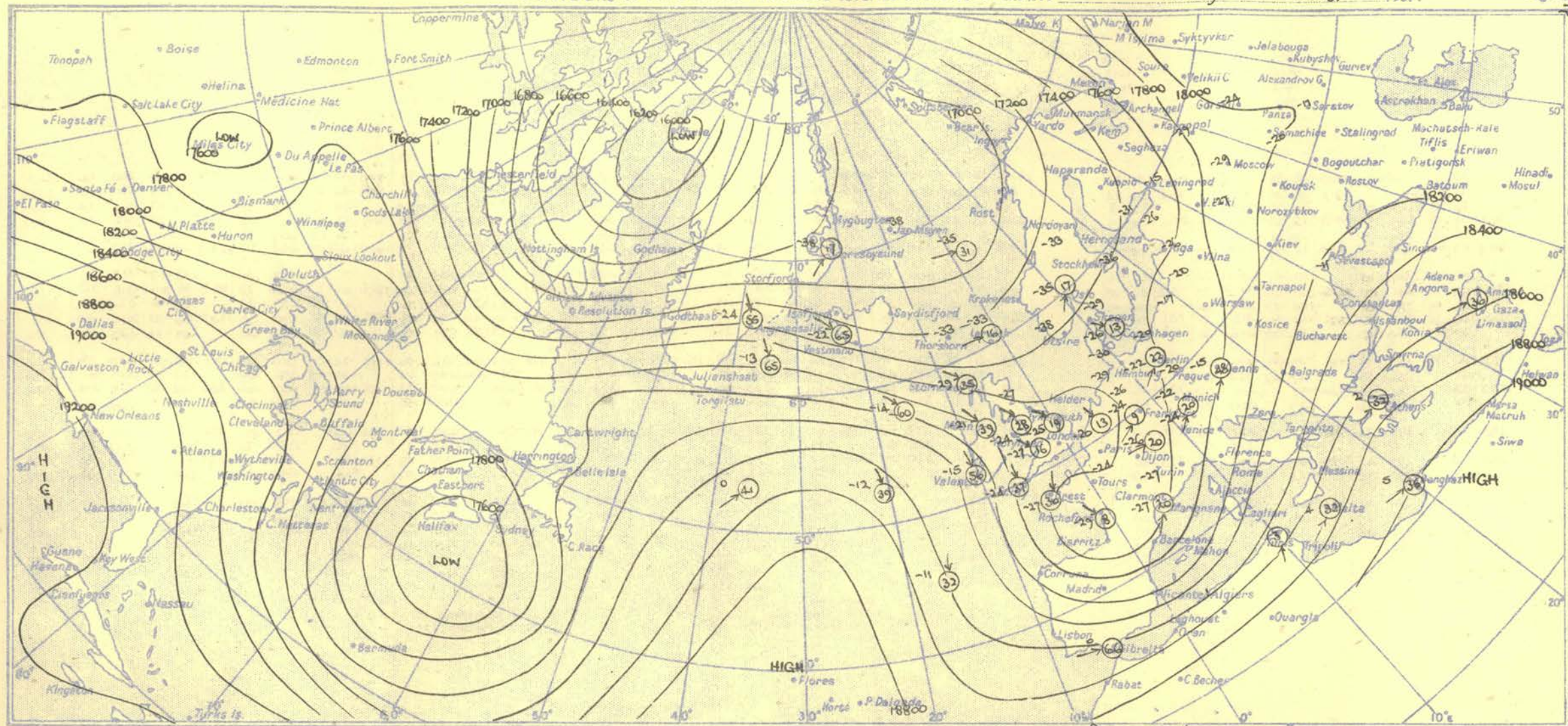
NOTES ON THE AEROLOGICAL SITUATION.

The cold trough over Ireland moved slowly east over the British Isles.



RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.

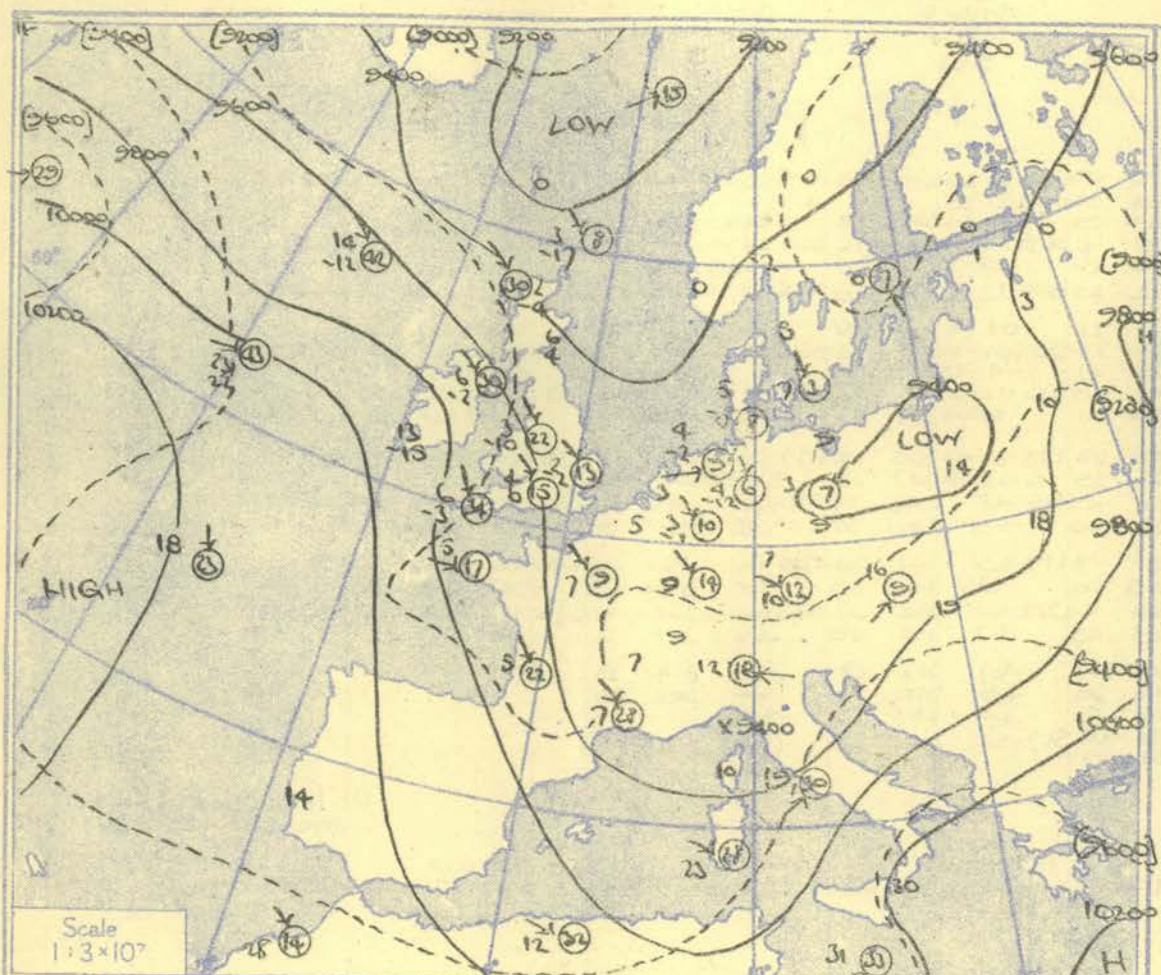


RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)																																																																																																																																																																																																																																																																																																																																																																																																																																								
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																																																																																																																																																																																																																																																																																																																																		
Pressure mb	Time M.S.L.	Surf	Freezing	15h.		G.M.T.		Height ft./100	Temp.	Dew	Wind Dir. Vel.	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.	Dew	Wind Dir. Vel.	Height ft./100	Temp.

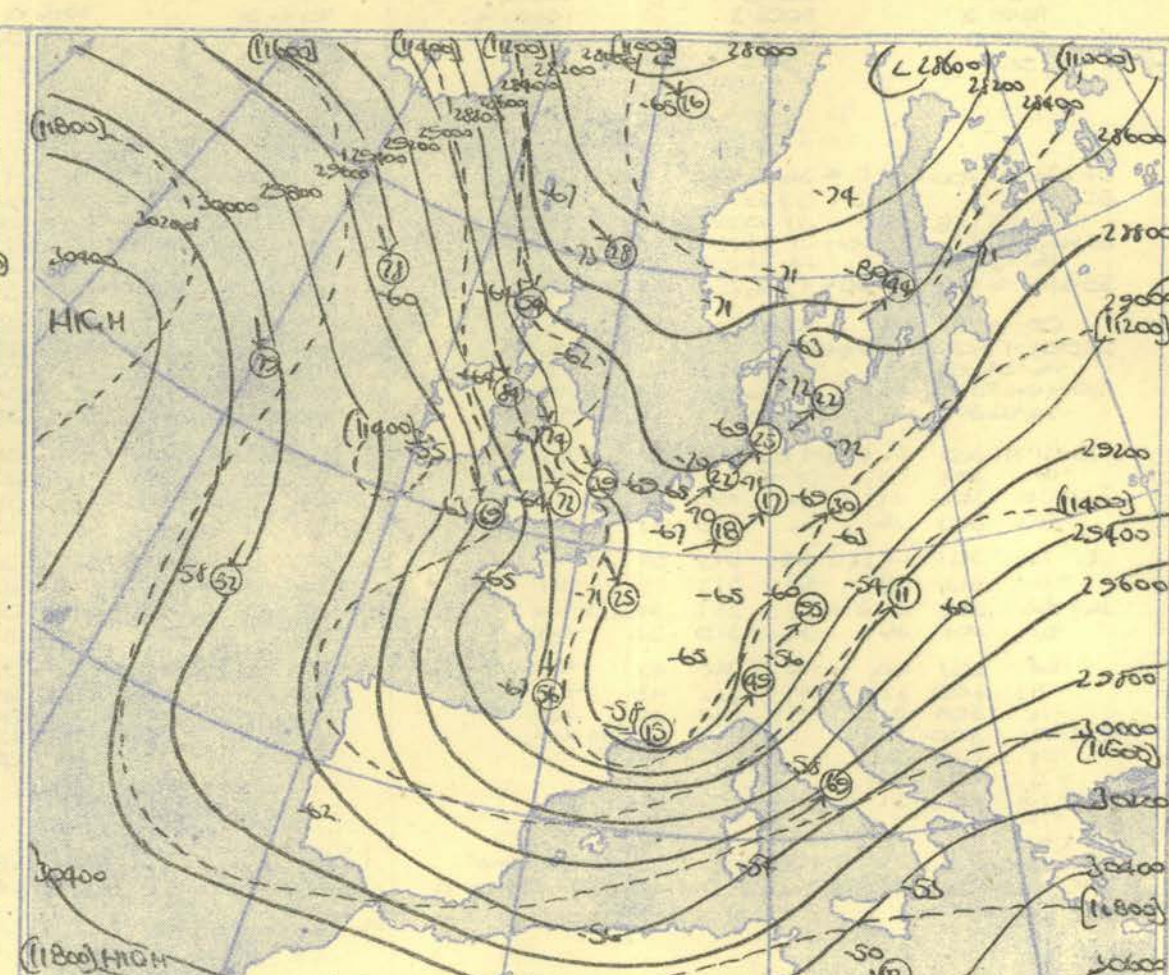
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				Valentia				STATION
Pressure mb	Time M.S.L.	Surf ft/100	Freezing	03hrs	G.M.T.	03hrs	G.M.T.	03hrs	G.M.T.	03hrs	G.M.T.	03hrs	G.M.T.	03hrs	G.M.T.	03hrs	G.M.T.	03hrs	G.M.T.	03hrs	G.M.T.	03hrs	G.M.T.	03hrs	G.M.T.	03hrs	G.M.T.	03hrs	G.M.T.	03hrs	G.M.T.						
				1008.3	mb	1008.3	mb	1010.4	mb	1014.5	mb	1016.0	mb	1016.6	mb	1018.3	mb	1018.3	mb	1018.3	mb	1018.3	mb	1018.3	mb	1018.3	mb	1018.3	mb	1018.3	mb	1018.3	mb				
				998.0	mb	1006.6	mb	1009.5	mb	1006.3	mb	1013.9	mb	1011.8	mb	1001.4	mb	1010.0	mb	1020.0	mb	1021.5	mb	1020.0	mb	1020.0	mb	1020.0	mb	1020.0	mb	1020.0	mb	1020.0	mb		
Pressure mb	Time M.S.L.	Surf ft/100	Freezing	578	mb	903	mb	972	mb	935	mb	973	mb	968	mb	950	mb	937	mb	910	mb	910	mb	910	mb	910	mb	910	mb	910	mb	910	mb				
				578	mb	903	mb	972	mb	935	mb	973	mb	968	mb	950	mb	937	mb	910	mb	910	mb	910	mb	910	mb	910	mb	910	mb	910	mb	910	mb		
				578	mb	903	mb	972	mb	935	mb	973	mb	968	mb	950	mb	937	mb	910	mb	910	mb	910	mb	910	mb	910	mb	910	mb	910	mb	910	mb		
Pressure mb	Time M.S.L.	Surf ft/100	Freezing	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind				
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
Pressure mb	Time M.S.L.	Surf ft/100	Freezing	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind				
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
Pressure mb	Time M.S.L.	Surf ft/100	Freezing	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind				
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
Pressure mb	Time M.S.L.	Surf ft/100	Freezing	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind				
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
Pressure mb	Time M.S.L.	Surf ft/100	Freezing	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind				
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
Pressure mb	Time M.S.L.	Surf ft/100	Freezing	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind				
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
Pressure mb	Time M.S.L.	Surf ft/100	Freezing	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind				
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
Pressure mb	Time M.S.L.	Surf ft/100	Freezing	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind				
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
				02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.	02.7 23 29 200	Dir. Vel.		
Pressure mb	Time M.S.L.	Surf ft/100	Freezing	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind	02.7 23 29 200	Wind														

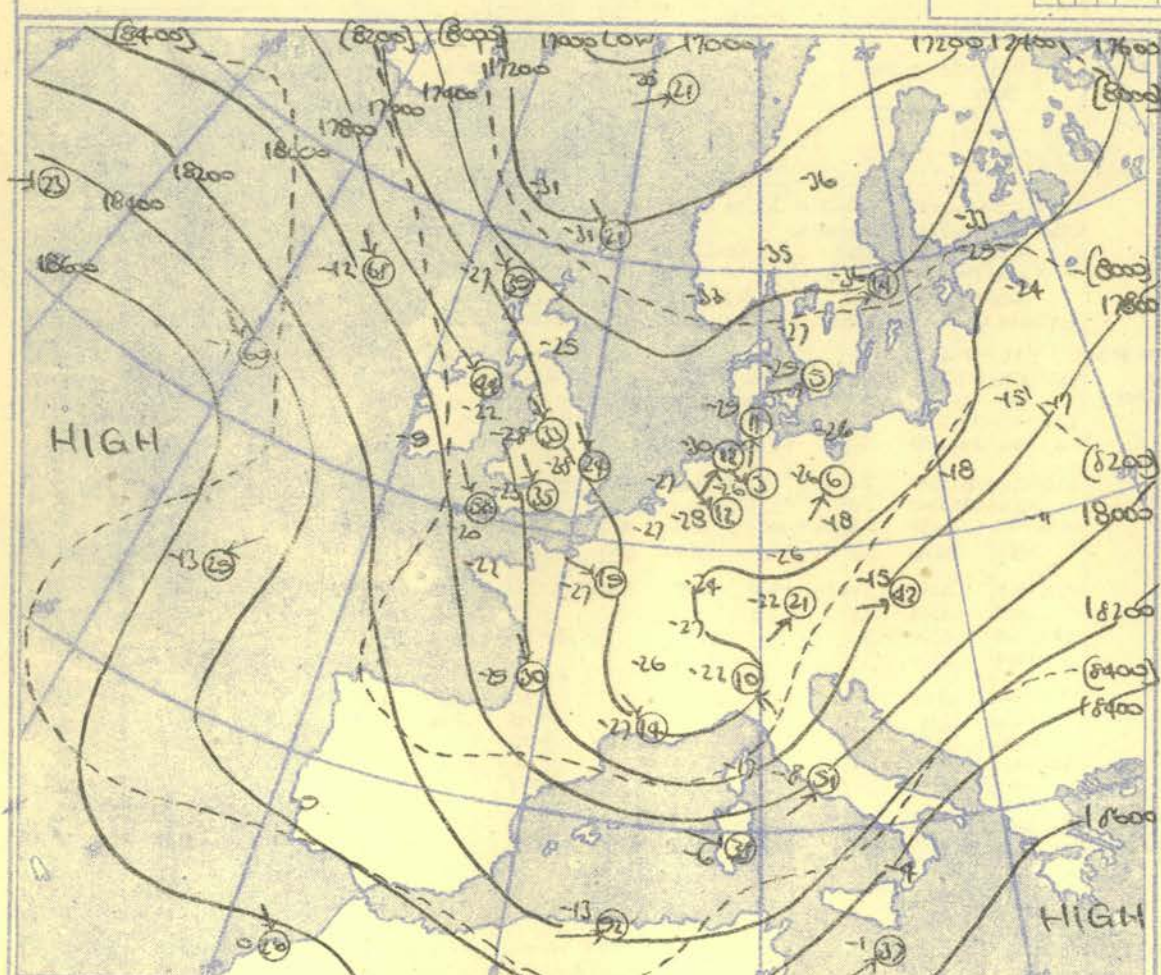
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb., levels at about 03 h G.M.T.



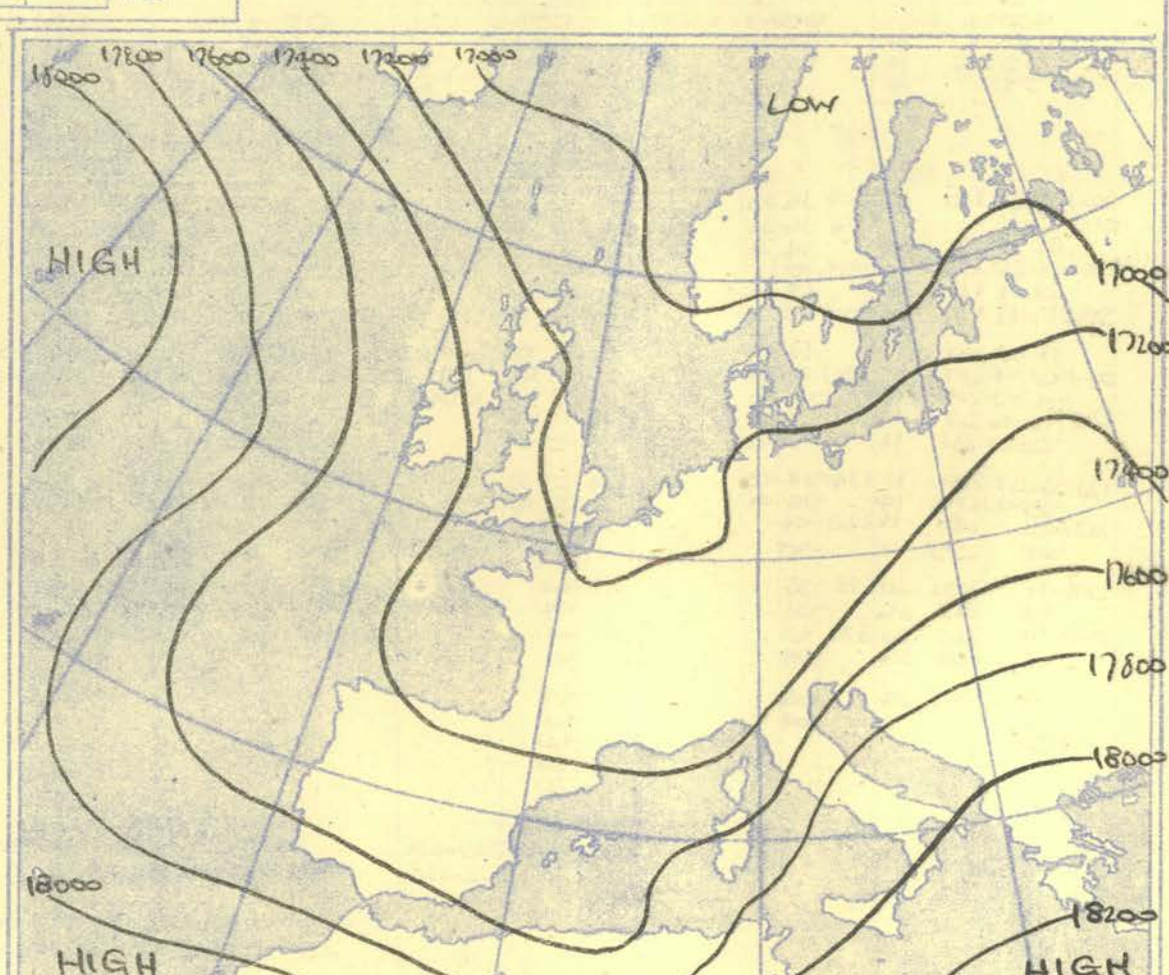
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000—700 mb.



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 500 - 300 mb



The continuous lines are contour lines of the 500mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



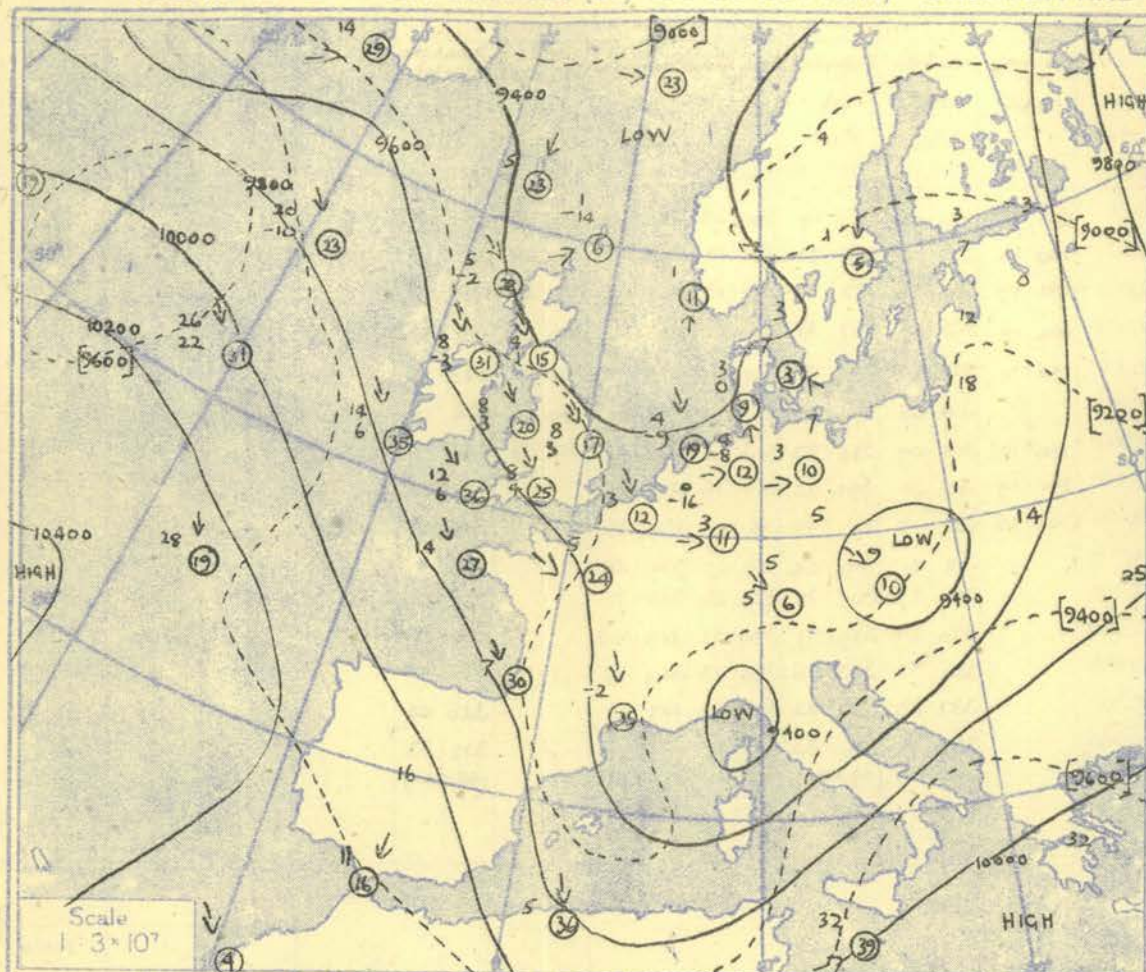
Isopleths of Thickness 500-1000mb.

DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

Ship	Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer			
------	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--

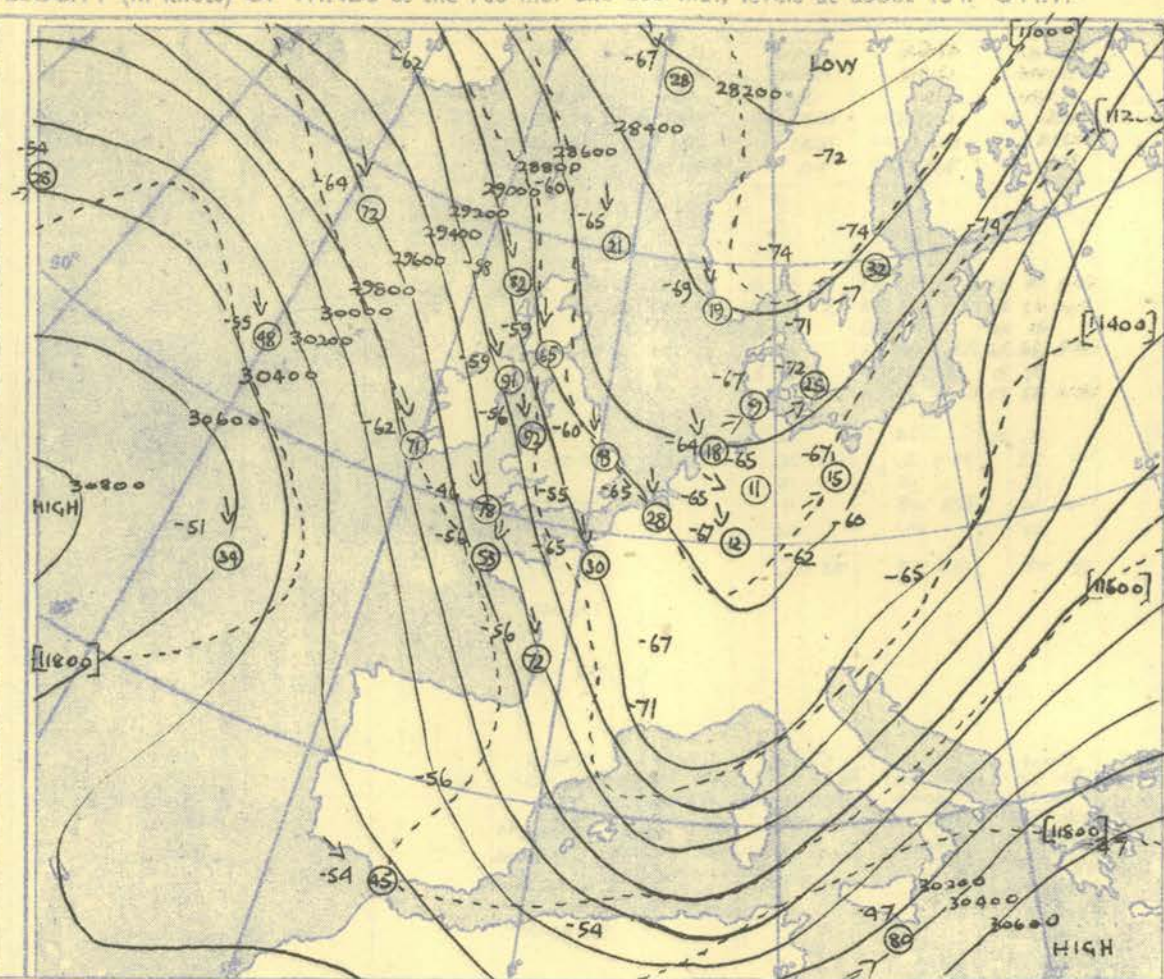
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb. and 300 mb., levels at about 15h G.M.T.



The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

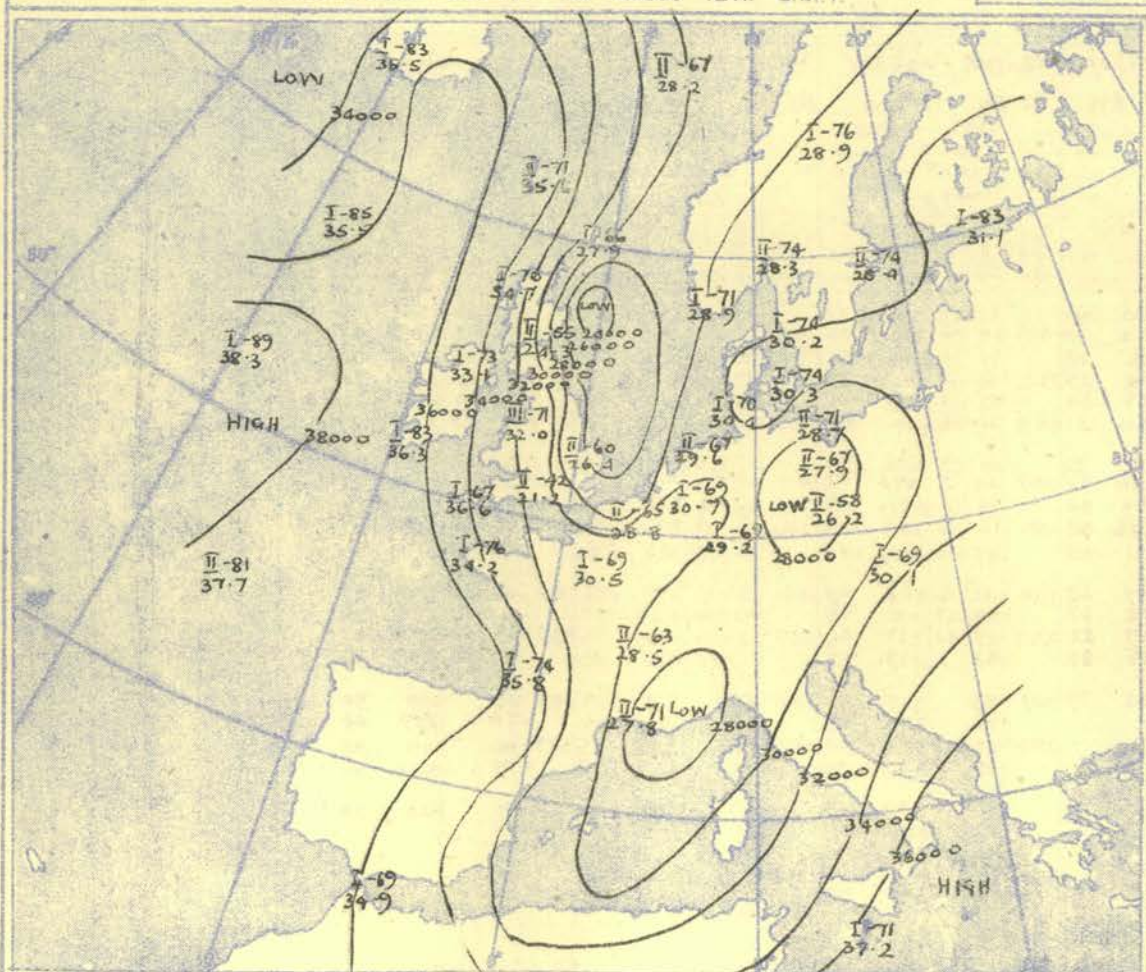
Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

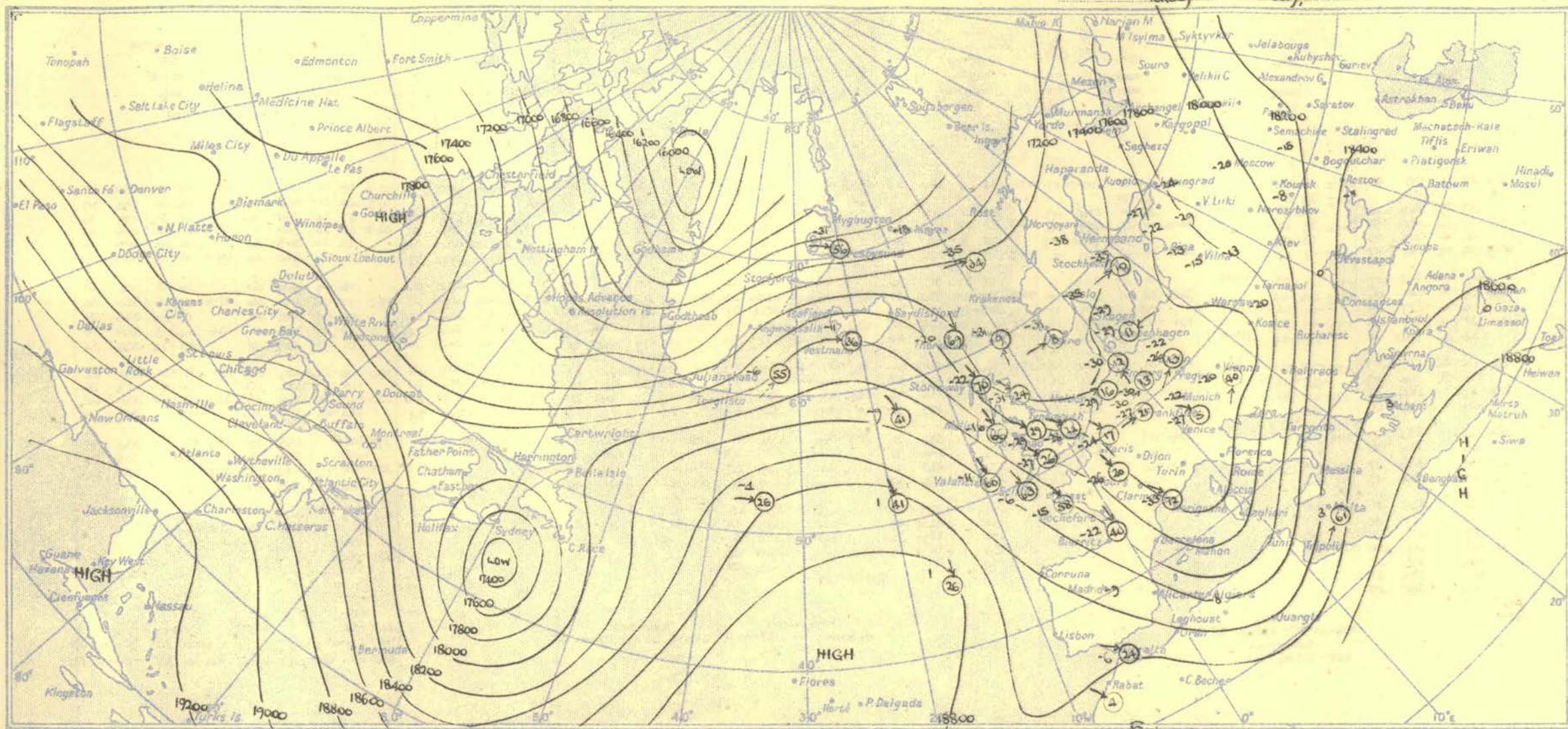
100 60 40 20 10 knots



The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

TROPOPAUSE CHART at about 15h G.M.T.

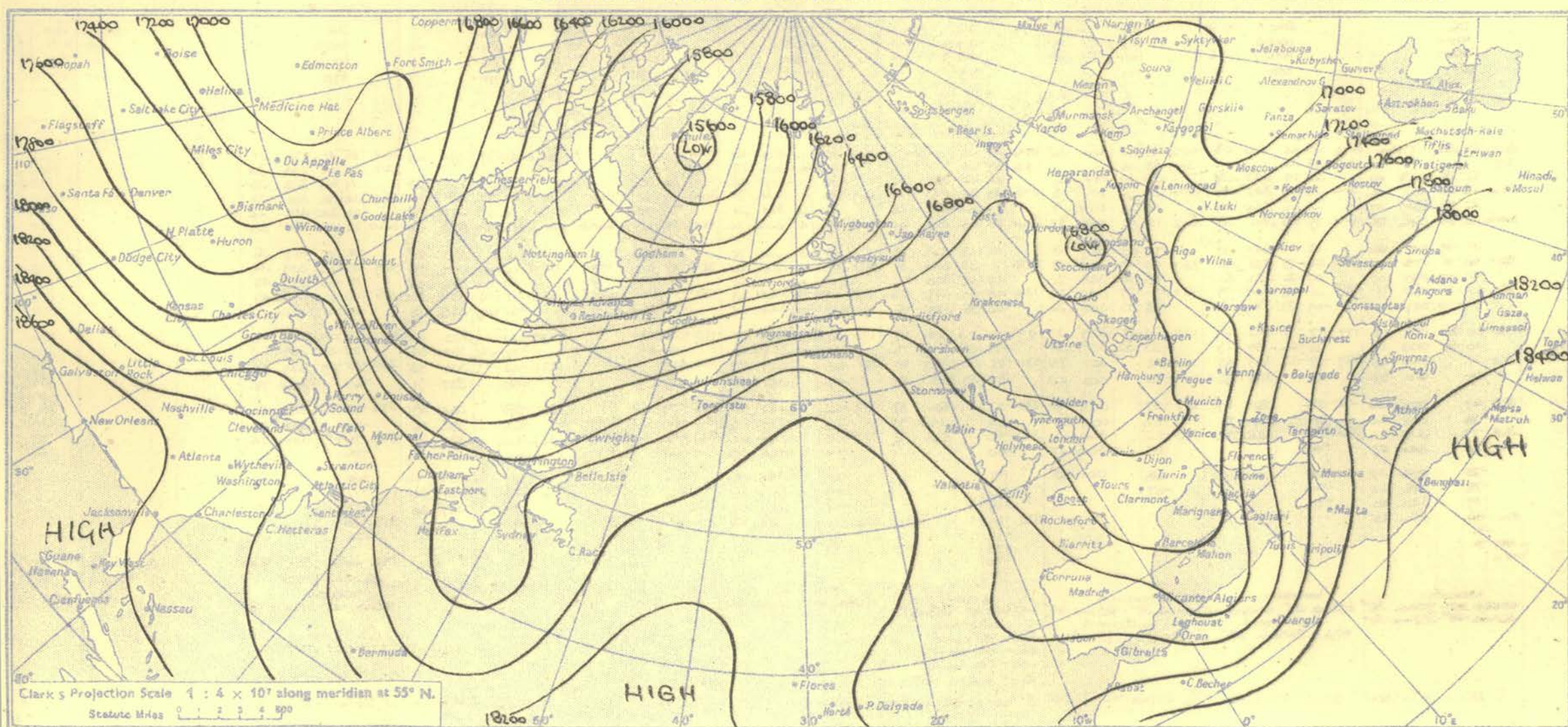




ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T.

February 26th

1951.



Clark's Projection Scale 1 : 4 x 10⁷ along meridian at 55° N.

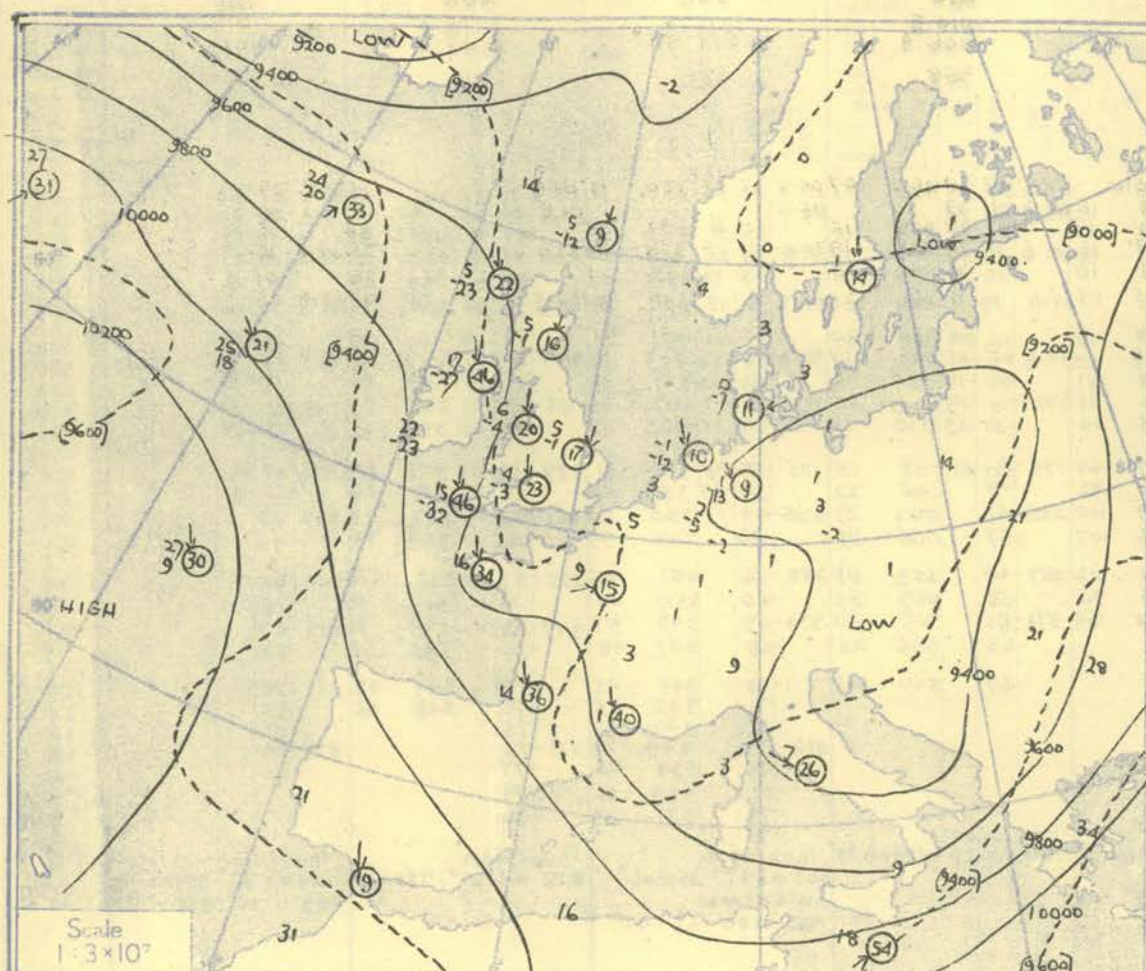
Statute Miles 0 1 2 3 4 500

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)																																																
STATION		LERWICK					STORNOWAY					LEUCHARS					ALDERGROVE					LIVERPOOL					DOWNHAM MARKET					LARKHILL					CAMBORNE					VALENTIA					STATION	
Pressure	Time M.S.L. Surf Freezing	15h.		G.M.T.		mb	mb	mb	mb	mb	mb	15h.		G.M.T.		mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	Time M.S.L. Surf Freezing													
		1006.7	996.6	942	1010.2							1008.5	935	1008.2	1007.2																					919	1011.1	1002.0	1010.2	1008.1	1011.8	1007.3	1013.5	997.1	900	1017.3	1006.6	909
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir.	Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir.	Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir.	Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir.	Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir.	Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir.	Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir.	Vel. knots	Pressure mb												
Surf	02.7	39	35	170	05	00.4	40	36			00.2	44	31	210	07	02.6	44	38	280	20	00.6	42	40	300	15	01.2	37	35	205	13	04.4	40	39	240	14	02.9	46	42	293	15	00.3	47	38	280	07			
1000	1.8					2.7	39	34			2.1	43	38			3.1	40	37	308	21	3.1	36	34			3.1	36	34			3.6	36	35	273	16	4.7	45	41	286	30	4.8	44	36	283	09			
950		33	29	267	03		34	28				36	31	270	09		38	31	315	23		31	30	240	18		31	30	240	18		36	35	273	16		37	34	295	26		38	31	299	16			
900	29.5	27	23	285	03	30.4	28	23			30.0	29	26	299	08	31.2	31	24	317	25	30.7	28	28	216	22	30.8	29	29	247	17	31.5	26	25	252	17		31	28	303	27	32.8	31	25	306	23			
850		21	16	291	05		22	17				23	22	304	07		25	18	331	26		25	25	300	24		25	25	300	24		26	25	300	24		25	22	308	30		26	20	306	20			
800	27.7	16	07	287	07	60.7	17	12	For		60.3	17	15	309	06	61.8	20	13	320	28	61.2	20	18	312	22	61.2	20	18	261	17	62.0	20	18	303	25	63.3	20	17	302	42	63.4	25	18	305	20			
750		09	06	267	07		11	03	Winds			11	09	308	10		13	07	317	30		14	11	314	21		14	10	271	17		14	11	302	25		16	09	308	33		20	12	312	31			
700	93.0	01	14	241	06	94.2	05	02			93.8	04	01	304	15	95.5	08	03	320	31	95.0	08	03	314	20	95.0	08	03	279	17	95.8	08	04	305	25	97.2	12	06	310	36	97.5	14	06	320	35			
650		06	20	227	05		01	14	See			03	06	309	17		03	23	322	34		00	08	304	21		01	03	284	18		01	03	306	26		45	00	318	45		11	00	325	38			
600	130	13	26	211	06	132	09	32			131	10	13	313	18	134	05	34	334	51	130	08	17	302	21	133	08	15	294	19	134	07	11	306	24	135	02	08	324	46	136	04	13	325	46			
550		23	36	180	11	132	09	32	page			19	22	315	20		10	40	332	54		17	28	312	25		18	27	304	21		17	21	307	23		01	15	332	58		03	24	326	51			
500	173	31	43	177	09	175	22	47	3.		174	31	35	320	24	177	16	47	341	66	176	27	38	316	29	176	28	39	304	22	177	27	32	308	26	180	06	22	329	63	181	11	32	327	60			
450		23	38	51	270	07		28	56			31	43	321	26		26	58	333	72		36	50	325	39		40	50	313	23		37	41	312	35		15	27	329	63		21	42	328	66			
400	223	47			286	10	226	38	58		224	48		323	31	229	36	59	335	76	226	42		332	57	226	49		305	21	227	42		327	66	233	23	32	335	68	233	33	54	330	65			
350		59			312	13		45				56		330	42		46		337	92		47		337	89		58		311	22		45		331	94		34	42	337	76		47		330	68			
300	284	65			333	21	299	58			286	59		346	65	292	59		336	91	289	56		338	92	288	60		327	43	290	58																
250		62			339	36		67				60		339	60		73		340	91		61		343	73		59		335	40																		
200	170	65			335	37	375	65			173	64		337	71	377	73		333	71	376	61		332	52	374	60		327	44																		
150		66			325	41		64				67					70		333	64		62		337	50		61		331	40																		
130		64			321	45		63				64					70		335	49		63		336	45		63		328	34																		
110		67			329	42		65				69					70		339	36		63		333	44		63		319	32																		
100	516	67			327	35	520	70			518	62				521	70		353	48	522	66		320	38		60																					
90		68			326	33																																										
80		70			326	33																																										
70		71			318	35																																										
60	(06.1 mb)	71																																														
Inversion 500mb. 22°-487mb. 21° Isothermal 822-812mb. 19°																																																
Inversion 408mb. 43°-387mb. 41°																																																
Inversion 384mb. 54°-375mb. 53°																																																
Inversion 585mb. 05°-543mb. 02°																																																
Inversion 834mb. 24°-800mb. 25°																																																
Inversion 708mb. 13°-683mb. 14°																																																

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Time M.S.L. Surf Freezing	03h G.M.T. 1014.8 mb 1004.5 mb 950 mb				03h G.M.T. 1015.9 mb 1014.2 mb 935 mb				03h G.M.T. 1015.3 mb 1014.4 mb 963 mb				03h G.M.T. 1016.9 mb 1007.3 mb 950 mb				03h G.M.T. 1013.4 mb 1011.3 mb 930 mb				03h G.M.T. 1010.8 mb 1006.4 mb 958 mb				03h G.M.T. 1011.4 mb 994.9 mb 925 mb				03h G.M.T. 1015.1 mb 1004.3 mb 915 mb				03h G.M.T. 1019.3 mb 1018 mb 925 mb				Time M.S.L. Surf Freezing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Surf	02.7	34	33	Calm	0.5	36	33	350	03	00.2	35	31		02.6	35	31	Land V	00.6	36	35	Calm	01.2	37	35	360	07	04.4	37	34	330	12	02.9	43	37	315	15	00.3	37	34	Surf																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
1000	03.9	35	34		04.2	40	35		04.0	36	30		04.5	35	31		03.5	38	36	028	15	02.9	36	33	360	07	03.0	37	34	330	12	04.8	42	36		15	00.3	37	34	1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
950		32	31	173	07										32	27	012	18		34	31	024	17					35	31	352	25		37	31	340	34	5.2	38	35	950																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
900	31.5	26	25	171	09	32.0	28	22022	24	31.6	27	23		32.2	27	20	010	17	31.3	29	26	017	18	30.6	26	24	041	15	30.8	29	25	358	24	32.0	31	26	336	25	32.8	28	25	900																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
850		22	21	163	09										23	11	004	18		23	16	011	16					20	24	19	353	21		24	20	353	28		37	18	850																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
800	61.7	14	13	146	04	62.4	19	04018	13	61.8	15	12		62.6	20	00	352	22	61.6	16	11	009	17	61.0	19	11	036	21	61.1	18	13	348	20	62.5	23	07	335	33	63.8	35	06	800																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
750		10	01	012	06										18	19	354	36		12	07	008	18					20	12	04	034	20		10	04	351	21		21	19	539	39		750																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
700	95.1	05	18	021	09	96.0	05	23002	22	95.2	05	01	See	96.6	17	27	358	46	95.1	06	04009	20	94.6	05	01	035	17	94.6	04	03	353	23	96.7	15	32	347	46	98.7	22	23	700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
650		00	28	034	14										12	21	355	53		12	21	355	53					16	03	10	035	16		03	10	035	23		11	35	349	52		650																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
600	133	08	39	019	20	134	02	28350	39	133	01	18		135	06	25	353	58	133	08	27	010	31	132	10	19	026	14	132	11	19	002	22	135	03	41	342	59	138	08	32	600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
550		13	39	005	31										02	33	360	60		02	33	360	60					20	22	014	13		19	29	360	27		06	46	340	62		01	39	550																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
500		176	19	38	004	51	178	12	30350	48	177	16	34		180	11	41	001	63	176	20	45	007	64	175	30	41	007	13	175	28	38	356	31	179	12	47	341	69	183	07	44	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
450		26	45	005	66										21	50	007	73		21	50	007	73					22		41	005	22		25	56	348	66		18	61	450																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
400	228	37	54	002	79	230	32	44351	63	229	33	50		232	33	60	002	76	227	37	60	009	100	225	51		002	29	225	44		350	67	231	32	59	342	73	235	32		400																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
350		48		358	87										46		002	78		46		006	107		57		008	39		46		352	99		44		344	73		45	350																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
300	291	61		358	92	294	59		356	73	293	55		295	61		350	81	291	55		004	102	287	60		359	51	288	56		351	105	295	57		348	76	300	60		300																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
250		73		356	86				346	68					75		348	75		70		355	94		58		359	53		65		350	87		70		342	74		75	250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
200	374	78		355	63	377	82		339	57	377	80		379	75		347	60	376	66		354	64	373	63		355	50	374	69		348	57	379	83		349	81	382	87		200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
170		75		345	48				342	52					77		354	58		68					63		355	45		68		347	48		74		346	57		82	170																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
150		75		344	49				338	42					76		346	49		67					67		349	45		68		345	45		74		349	43		79	150																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
130	(134	70							335	39					73		340	44		71										71		345	45		74		348	45		75	130																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
110	mb)								336	36					74					73										73		349	60		75					110																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
100									331	37																					518	73		349	45	521	76				100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
90									333	45																					75		334	21		77					90																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
80									343	42																					79		329	31		79					80																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
70									344	34																					75		231	33		82					70																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
60																																75										60																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40° 595 - 09°-582 - 08° Isothermal 520 - 18°-515 - 17° 910 - 887 mb 28° Isothermal 690 - 670 mb 03°																																	Inversion 605 mb 34°-789 mb 36°-1000 mb 40°																																

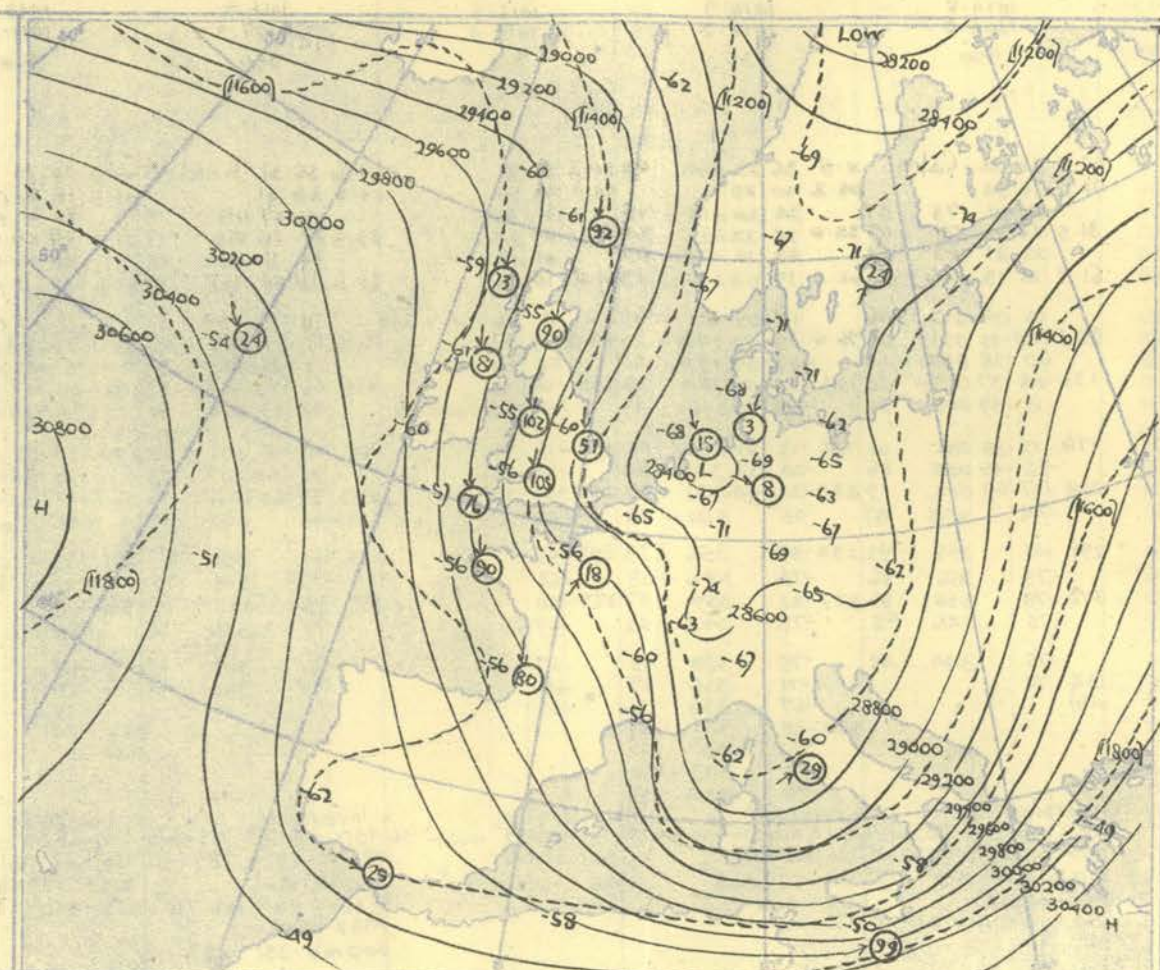
HEIGHTS IN FEET, TEMPERATURES (Dry bulb and Dew Point), DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb. levels at about 03 h. G.M.T.



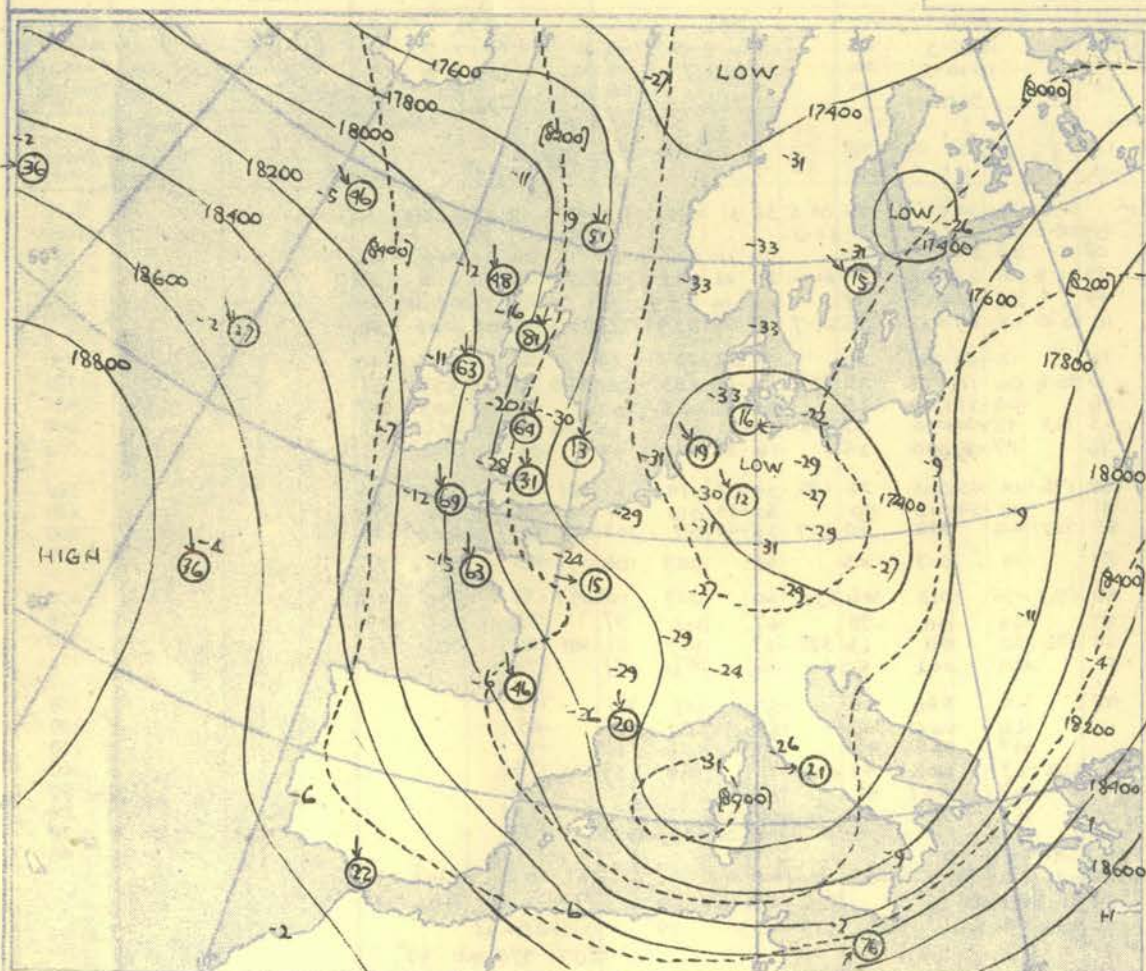
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

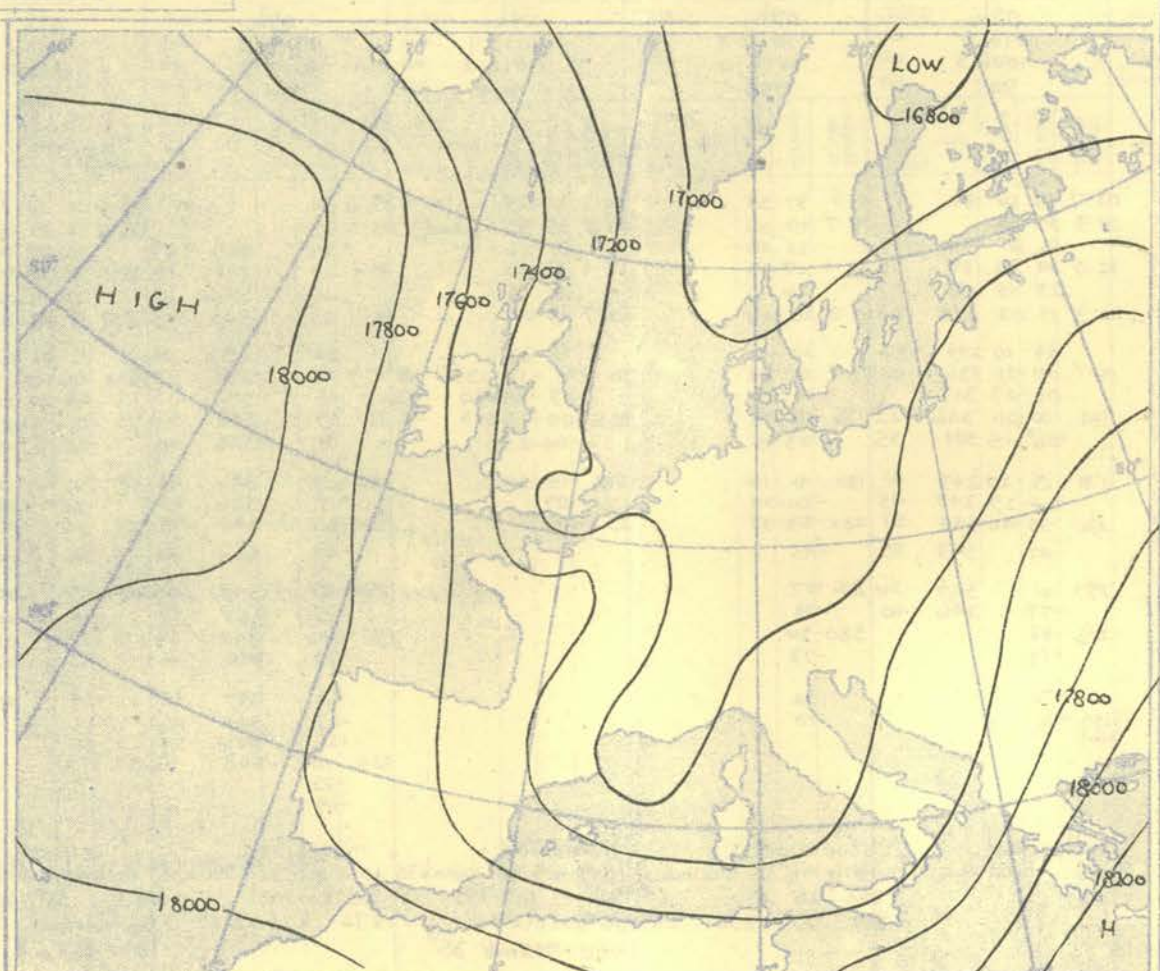
100 80 60 40 20 10 knots



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb.



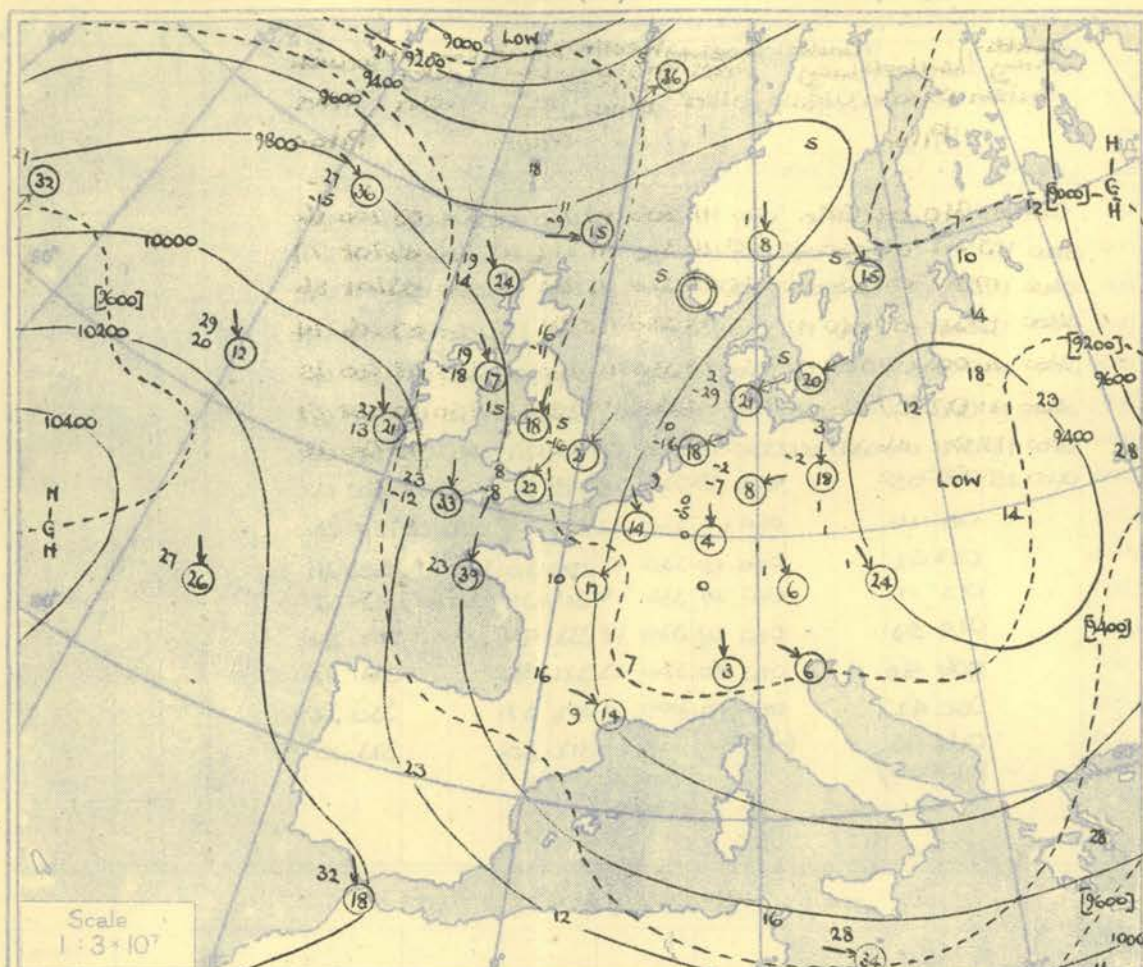
The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.

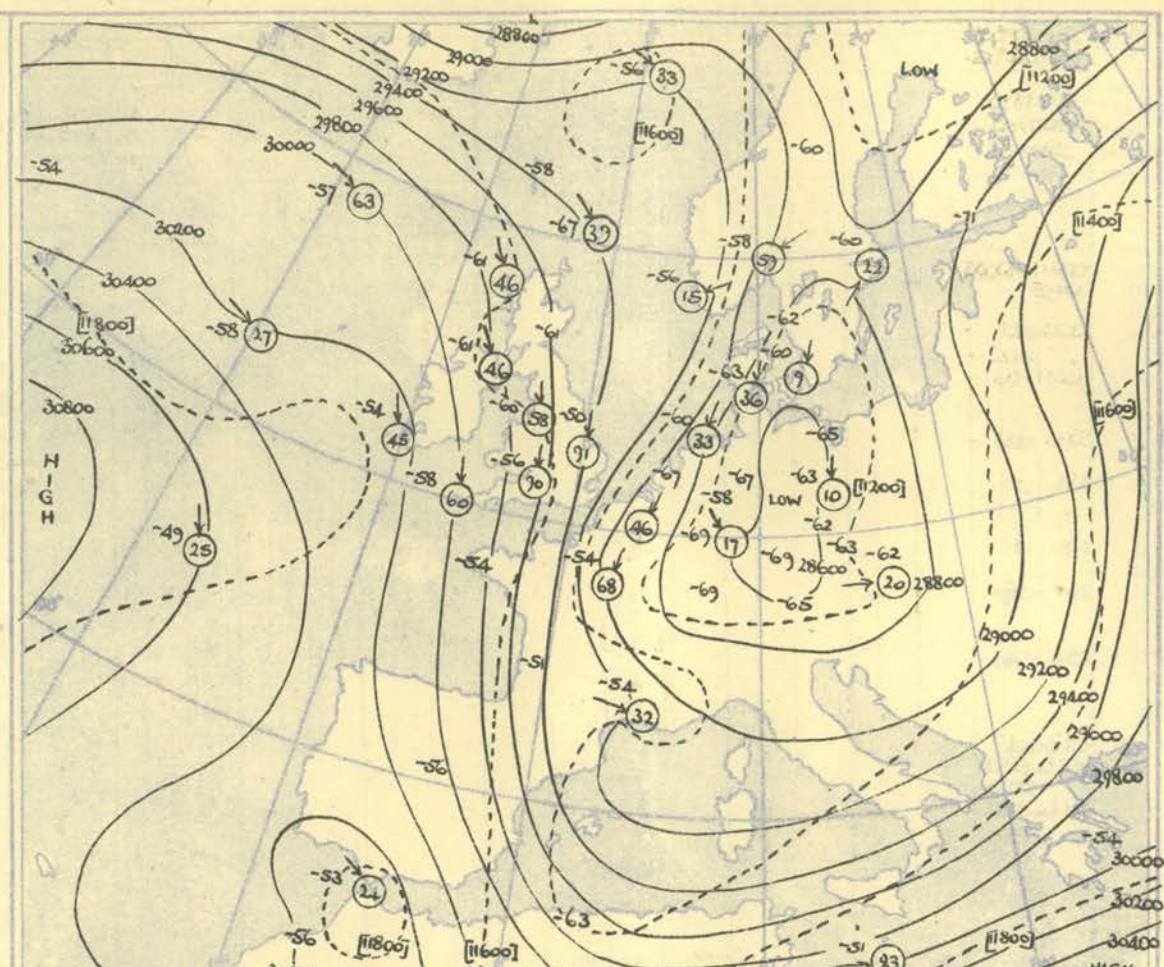
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

Ship	Weather Watcher				Weather Watcher				Weather Watcher				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Ship																				
Lat/Long	52.8°N 19.8°W				52.8°N 19.6°W				52.5°N 19.6°W				52.4°N 19.9°W				58.7°N 18.8°W				59.0°N 18.7°W				59°N 18.8°W				59°N 19°W				Lat/Long																
Pressure	Time	03hrs			G.M.T.	03hrs			G.M.T.	15hrs			G.M.T.	21hrs			G.M.T.	03hrs			G.M.T.	09hrs			G.M.T.	15hrs			G.M.T.	21hrs			G.M.T.	Time															
	M.S.L.	101.8			mb	101.7			mb	101.9			mb	102.1			mb	101.0			mb	100.8			mb	101.1			mb	101.3			mb	M.S.L.															
	Surf	101.8			mb	101.7			mb	101.9			mb	102.1			mb	101.0			mb	100.8			mb	101.1			mb	101.3			mb	Surf															
	Freezing	755			mb	760			mb	725			mb	655			mb	755			mb	725			mb	740			mb	750			mb	Freezing															
Pressure	Height	ft./100			Temp.	°F.			Dew	°F.			Wind	Dir. Vel.			Height	ft./100			Temp.	°F.			Dew	°F.			Wind	Dir. Vel.			Height	ft./100			Temp.	°F.			Dew	°F.			Wind	Dir. Vel.			Pressure
	mb																mb																mb								mb				mb				
Surf	-	50	50	260	12	49	49	250	11	49	49	323	19	46	44	315	07	46	46	203	26	45	43	285	24	-	45	43	290	25	-	45	42	270	20	Surf													
1000	4.9	50	50	265	12	46	48	48		52	50	50	322	12	5.6	46	47	290	05	2.6	45	44	185	33	2.2	44	43	276	29	8.0	44	40	266	24	3.5	44	38	247	22	1000									
950		51	51	271	15		46	46			52	52	346	12		49	46	290	08		42	39	194	34		40	40	274	30		33	33	271	26		41	33	254	24	950									
900	33.8	49	49	283	17	38.1	45	43		33.9	47	46	351	14	43	48	40	301	03	30.9	38	35	207	33	30.4	38	38	274	33	31.3	46	26	275	30	31.9	43	29	268	24	900									
850		44	44	286	17		41	41			41	40	345	16		44	27	309	06		36	33	221	31		44	21	271	35		43	-1	277	36		39	24	274	27	850									
800	65.3	38	36	278	17	64.7	37	37		65.5	37	33	339	16	65.5	40	21	310	10	62.2	36	31	240	26	62.0	40	22	277	44	62.9	35	-5	288	42	63.3	34	06	273	29	800									
750		31	30	276	17		31	31			34	23	326	18		38	09	313	08		31	25	253	28		36	40	283	44		34	-5	294	40		32	11	274	31	750									
700	101	25	18	283	21	99.8	25	22		101	29	20	337	12	101	23	10	312	11	97.2	24	20	266	33	97.1	28	01	286	44	98.1	27	-15	293	36	98.2	26	06	273	25	700									
650		26	02	291	24		17	16			21	13	341	16		24	06	308	09		22	01	274	39		21	-4	286	48		19	-25	290	36		20	-5	274	37	650									
600	140	14	00	295	24	139	13	12		140	13	02	340	17	141	17	-4	309	08	137	13	-26	280	48	137	13	-13	288	48	137	13	-32	284	48	137	14	-6	273	26	600									
550		06	-10	297	29		06	01			05	-4	327	18		09	-5	307	09		05	-40	284	48		06	-23	287	52		05	-40	284	47		07	-8	273	22	550									
500	185	-2	-8	295	27	184	-3	-7		185	-5	-12	329	16	187	00	-14	306	14	182	-5	-57	284	46	182	-3	-36	289	58	183	-3	-46	284	52	183	-4	-7	270	32	500									
450		-13	-19	300	27		-15	-23			-16	-24	319	20		-11	-30	310	22		-16	-57	282	55		-16	-42	289	65		-17	-32	284	45		-12	-24	269	26	450									
400	238	-25	-29	310	25	237	-28	-33		238	-28	-37	314	23	240	-24	-44	316	19	233	-23	-56	280	51	233	-30	-44	291	60	235	-27	-35	284	55	236	-24	-33	261	40	400									
350		-39	-44	310	26		-41				-43	-29		21		-36	-56	343	26		-40	-60	280	45		-65	-28		57		-41	-28		-35	-45	263	30	350											
300	303	54		302	24	301	-57			302	58	286	27	304	53		321	36		-52					298	-61		291	66	300	-57		284	63	300	-56		264	58	300									
250		-72		292	30		-70				-71	286	30		-71	318	44		(310)						-75		291	56		-73	284	67		-74	268	61		250											
200	386	88		294	33	385	-86			386	-88	313	34	389	-82		313	39						381	-74		295	46	384	-79		284	54	384	-82		268	50		200									
170		-75		294	30		-72				-71	308	34		-74	298	33								-71		293	45		-67	284	47		-71	270	48		170											
150		-76		294	29		-72				-70	313	33		-71	310	29								-70		291	46		-67	284	42		-71	273	48		150											
130		-79		294	29		-76				-75	316	33		-74	308	30								-71		292	38		-67	284	46		-73	279	51		130											
110		-81		296	24		-77				-74	316	30		-74	313	30								-72		293	33		-68	284	42		-74	284	46		110											
100	527	-79		301	18	527	-78			529	-78	315	27	531	-76		314	29							528	-72		294	33	528	-67		284	30	527	-73		286	42	100									
90		-81		315	18		-77				-78	316	28		-79	325	25									-71		293	36		-66	284	30		-74	286	42		90										
80		-81					-77				-78	314	23		-79	322	21									-69		294	36		-66	284	30		-75	283	43		80										
70		-81					-74				-75	309	23		-79	316	18									-67		-67			-67	284	30		-75	285	38		70										
60	(29)						-74				-76	304	12		-78											-67		-67			-68								60										
	Isothermal 1018-982 mb 50"				Isothermal 639-618 mb 16"				Inversion 1015 mb 49"-950 mb 52"				Inversion 1021 mb 46-985 mb 49 811 mb 92-800 mb 40 Isothermal 985-950 mb 49 800-792 mb 40"				Inversion 900 mb 38"-890 mb 39 550 mb 36"-818 mb 37"				Inversion 912 mb 36-863 mb 45"				Inversion 925 mb 38"-900 mb 48"				Inversion 953 mb 40"-842 mb 46 723 mb 32"-763 mb 33"																				
	982 mb 50"-950 mb 36 676 mb 21"-669 mb 22"																																																
Tropopause	1196 mb -89° 39100'				1195 mb -84° 39000'				1210 mb -82° 37500'				1217 mb -81° 37400'				NR.				1222 mb -81° 36000'				11234 mb -80° 35000'				11232 mb -81° 35500'				Tropopause																



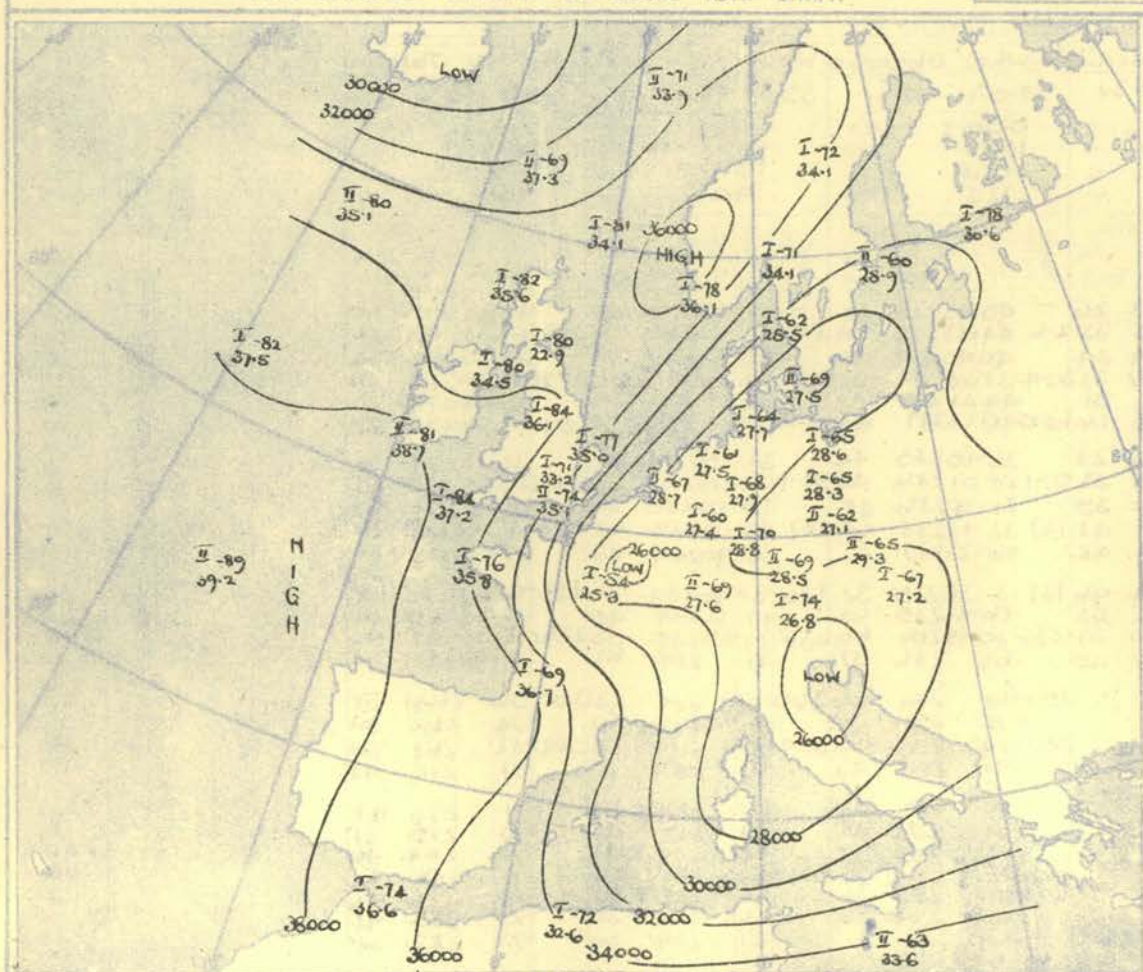
The continuous lines are contour lines of the 700 mb. surface.
 The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

Gradient Wind Scale for Contours
 at intervals of 200 ft. at Lat. 52° N.
 100 80 60 40 20 10 0 knots



The continuous lines are contour lines of the 300 mb. surface.
 The dotted lines are isopleths of the thickness of the layer 500-300 mb.

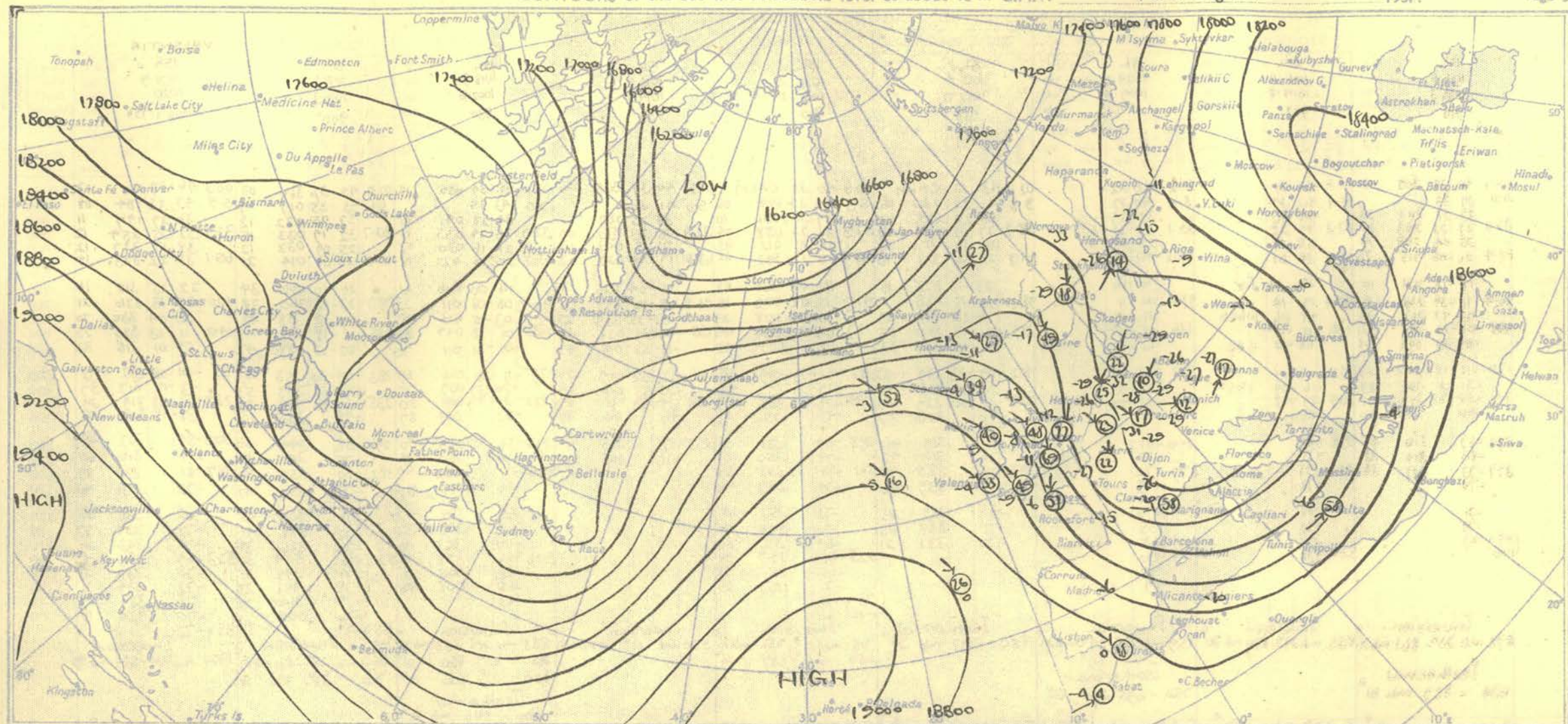
TROPOPAUSE CHART at about 15h. G.M.T.



Contour lines of Height of Tropopause.
 Temperature of Tropopause.

NOTES ON THE AEROLOGICAL SITUATION.

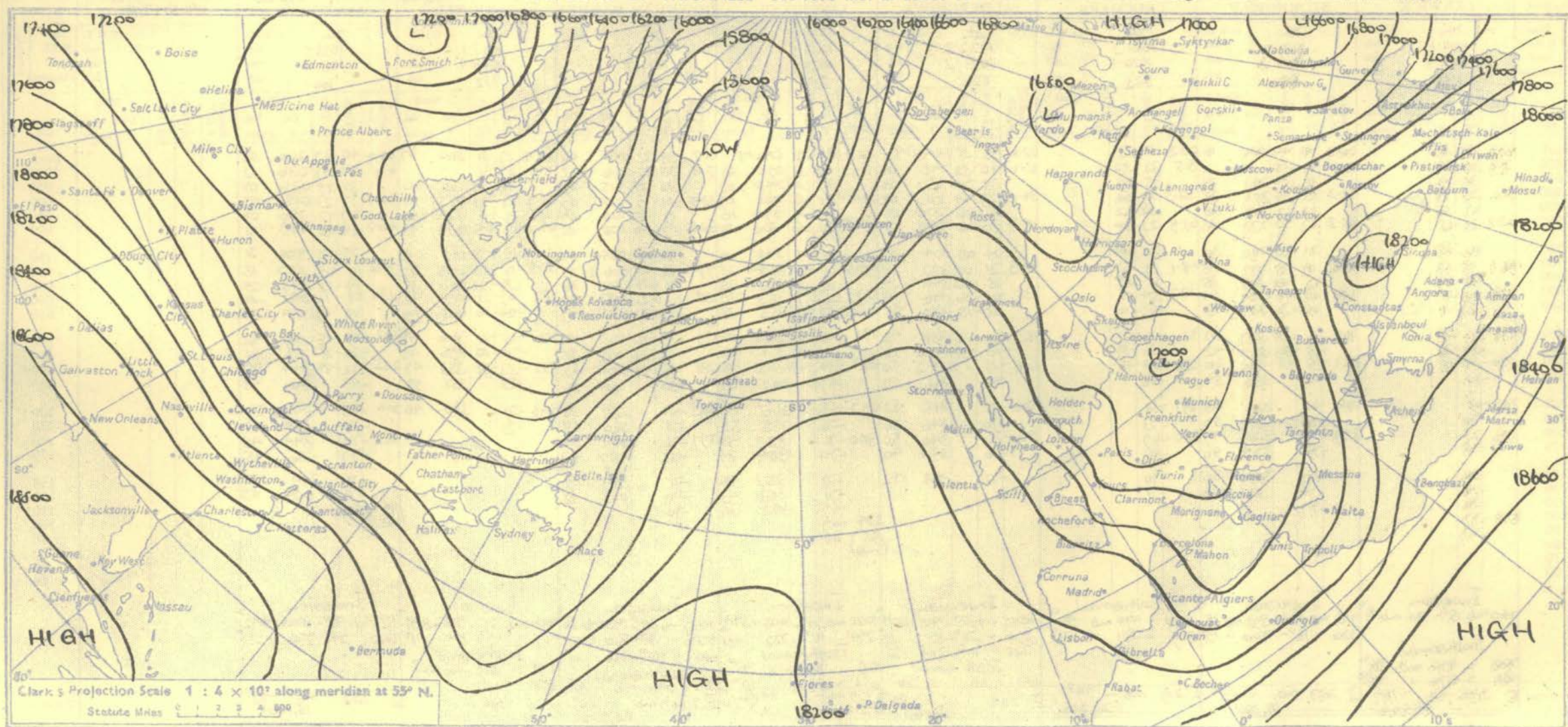
Further warming by advection occurred northeastward from Iceland, with thermal gradients remaining strong south of Greenland. Cold trough over Europe moved little during the day.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 15 h. G.M.T.

February 27th

1951.



RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

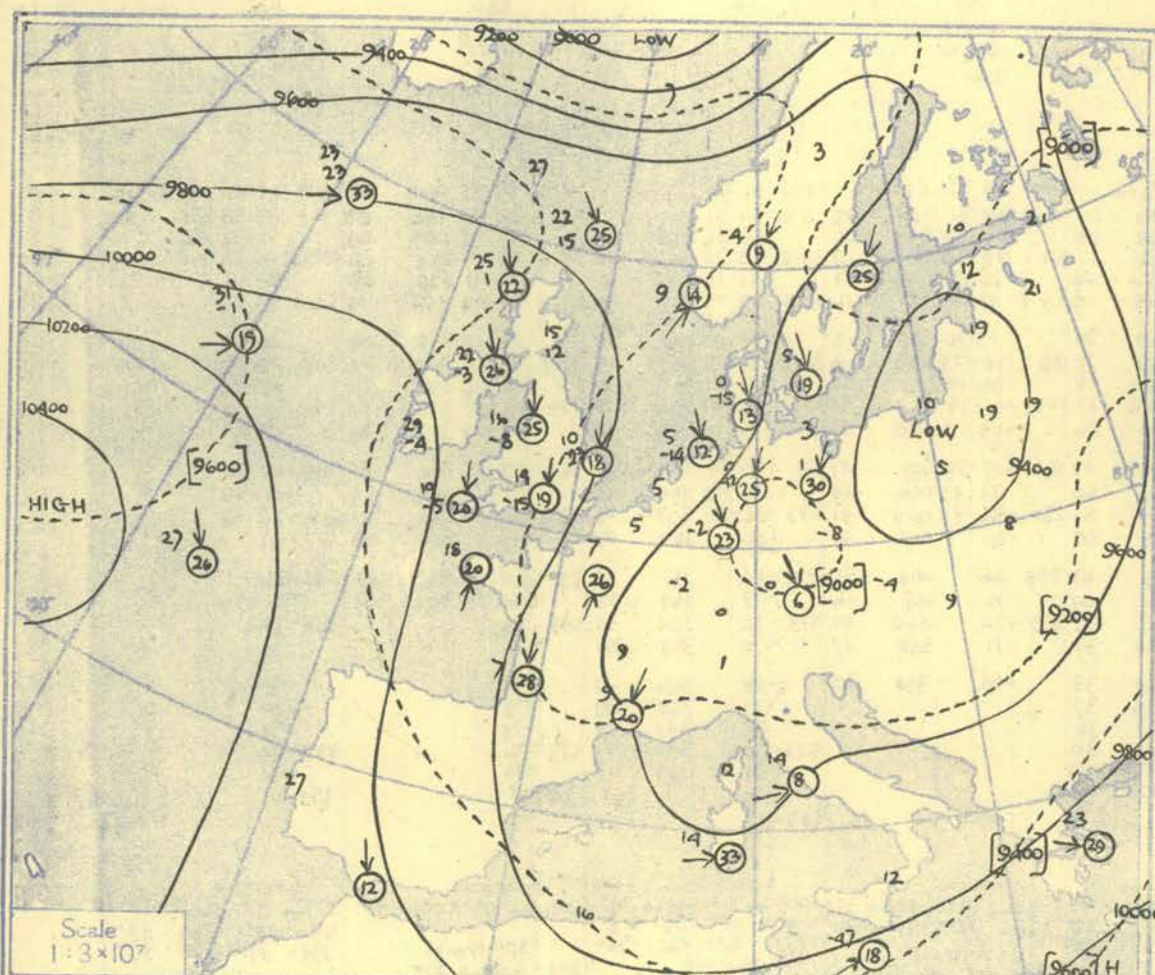
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION	
Time M.S.L. Surf Freezing	Pressure mb	15h		G.M.T.		15h		G.M.T.		15h		G.M.T.		15h		G.M.T.		15h		G.M.T.		15h		G.M.T.		15h		G.M.T.		15h		G.M.T.		Time M.S.L. Surf Freezing					
		1016.6	mb	mb	mb	1016.5	mb	mb	mb	1020.2	mb	mb	mb	1021.4	mb	mb	mb	1020.2	mb	mb	mb	1018.8	mb	mb	mb	1018.9	mb	mb	mb	1021.1	mb	mb	mb		1021.3	mb	mb	mb	
		940				923				1019.4				938				910				932				930				900				900 1750					
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb						
Surf	02.7	40	34	205	46	00.5	42	37	00.2	46	32		02.6	43	32	CALM	00.6	46	35	CALM	01.2	44	39	33.5	10	04.4	43	34	050	14	02.9	45	37	360	07	Surf			
1000	4.4	39	33		4.4	40	34		5.4	40	27		5.8	41	29	220	06	5.3	44	34	014	06	5.0	41	36		5.0	43	34		5.6	43	35	017	09	1000			
950	33.2	28	20.2	23	35	30	30		33.1	33	23		33.7	34	20	255	07	33.3	31	23	058	09	32.9	28	23	022	08	34	28	041	15	33.7	32	25	022	12	950		
900	27.2	23	20.3	21	32.3	29	25		28.1	26	14		28.7	27	19	267	09	28.5	25	18	012	03	22.9	26	16	030	09	32.9	28	24	035	15	33.7	32	19	033	15	900	
850	26.4	24	20.8	19	32.3	25	18		26.3	22	09		26.7	23	16	281	09	26.5	20	12	012	03	22.9	22	15	043	10	32.9	28	24	035	17	33.7	32	09	032	15	850	
800	21.2	18	21.5	20	63.0	28	01		63.3	20	03		64.2	23	04	321	10	63.9	20	12	342	03	63.3	17	06	038	12	63.2	20	10	022	18	64.3	24	01	014	21	800	
750	17	18	221	19	24	14	for		16	06			23	18	325	5	16	06	360	08	12	04	026	18	14	00	016	21	14	00	016	21	26	10	002	34	750		
700	16.4	11	34	239	15	97.4	19	14	97.0	16	11		98.0	19	18	325	17	97.7	15	02	002	18	96.8	05	16	027	21	96.9	08	08	011	22	98.7	13	12	360	33	700	
650	03	43	261	16	15	06	winds		13	26	330	23	137	13	26	330	23	137	12	04	008	29	135	01	25	025	27	135	03	15	013	35	13	13	358	43	650		
600	01	10	281	21	136	10	12		05	08	see		06	17	330	25	137	09	07	006	46	135	01	39	020	35	135	01	18	014	52	138	11	18	358	43	600		
550	04	09	298	28	05	08			02	18			01	12	337	33	02	11	002	45	13	52	018	42	01	21	011	70	02	23	357	47	02	23	357	47	550		
500	17.9	11	18	302	27	182	04	17	180	13	25		182	09	23	339	40	181	08	12	359	48	178	12	52	019	77	179	11	30	010	69	183	09	30	353	49	500	
450	21	31	300	27	16	29	page		22	23			20	37	333	40	234	17	28	357	48	230	23	53	016	84	232	20	37	009	75	183	18	38	348	53	450		
400	23.1	34	307	31	234	29	43		232	32	44		234	32	50	329	39	234	28	39	356	54	230	23	53	016	84	232	20	37	008	75	183	18	38	348	53	400	
350	50		304	36	45		3.		296	61			298	61		319	46	298	57		351	58	293	58		005	91	295	56		003	90	299	58		349	60	350	
300	294	67	310	39	298	61			379	72			381	76		319	42		74		350	61		73			002	99	380	71		002	59	382	80		347	66	300
250	377	73	327	35	381	71			379	72			381	78		335	44		78		355	54		73			002	99	380	71		002	59	382	80		347	66	250
200	70				73				72				72			339	40		74		357	46					002	99	380	71		002	59	382	80		347	66	200
150	71				72				70				71			339	39		72		352	38					002	99	380	71		002	59	382	80		347	66	150
130	70				72				65				71			338	35		70		348	41					002	99	380	71		002	59	382	80		347	66	130
110	67				73				65				71			331	21		64		352	30					002	99	380	71		002	59	382	80		347	66	110
100					74				66				72			331	21		64		352	30					002	99	380	71		002	59	382	80		347	66	100
90					74				66				72			331	21		64		352	30					002	99	380	71		002	59	382	80		347	66	90
80					74				66				72			331	21		64		352	30					002	99	380	71		002	59	382	80		347	66	80
70					74				66				72			331	21		64		352	30					002	99	380	71		002	59	382	80		347	66	70
60					74				66				72			331	21		64		352	30					002	99	380	71		002	59	382	80		347	66	60
Inversion		878 mb 23° - 861 mb 26°		855 mb 24° - 820 mb 30°		859 mb 20° - 840 mb 24°		850 - 747 mb 28°		715 mb 14° - 685 mb 16°		530 mb 13° - 504 mb 11°		853 mb 21° - 838 mb 22°		850 mb 25° - 831 mb 27°		854 mb 31° - 834 mb 39°																					
Isothermal		634 - 587 mb 01°		750 - 695 mb 16°																																			
Tropopause		I 288 mb - 81°		I 227 mb - 82°		I 229 mb - 83°		I 238 mb - 80°		I 223 mb - 84°		I 228 mb - 77°		I 252 mb - 70°		I 210 mb - 84°		I 200 mb - 81°																					
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION	
Time M.S.L. Surf Freezing	Pressure mb	21h		G.M.T.		21h		G.M.T.		21h		G.M.T.		21h		G.M.T.		21h		G.M.T.		21h		G.M.T.		21h		G.M.T.		21h		G.M.T.		Time M.S.L. Surf Freezing					
		1015.1	mb	mb	mb	1016.0	mb	mb	mb	1021.2	mb	mb	mb	1022.3	mb	mb	mb	1022.9	mb	mb	mb	1022.5	mb	mb	mb	1023.1	mb	mb	mb	1023.9	mb	mb	mb						
		948				850				923				826				911				950				932				900									
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb						
Surf	02.7	38	35		00.5	43	40	210	18	00.2	38	33		02.6	38	31	CALM	00.6	36	34	CALM	01.2	34	32	055	06	04.4	37	31	360	07	02.9	40	37	360	02	Surf		
1000	3.9	38	34		2.2	41	38	29	18	5.5	38	33		6.1	40	32	218	04	42	38	070	06	5.8	35	32	016	12	6.0	37	31	360	07	6.3	42	38	036	12	1000	
950	31.6	28	18		32.3	35	34	251	33	33.5	29	24		34.0	27	19	262	05	34.0	31	23	263	07	33.4	26	19	012	07	33.9	23	21	025	10	34.4	32	23	018	08	950
900	27.2	23	06		32.3	32	267	30	63.9	22	04		28.1	26	16	270	06	28.7	24	19	270	10	63.5	17	06	008	15	64.1	19	05	024	13	65.0	24	02	349	12	900	
850	21.2	18	08		63.3	27	278	30	63.9	22	04		64.7	28	16	270	06	64.7	24	19	270	10	63.5	17	06	008	15	64.1	19	05	024	13	65.0	24	02	349	12	850	
800	16	05			21	20	290	30	21	09			20	01	346	14		20	01	346	14							13	05	018	16	25	08	354	12	800			
750	96.1	15	13		97.6	19	13	299	33	98.1	17	07		99.2	21	09	332	28	98.5	19	16	354	23	97.1	11	13	006	29	97.8	11	13	008	22	99.4	19	04	352	18	750
700	08	04			12	01	308	35	11	02			18	02	346	24		12	14	356	25							01	34	004	36	29	07	21	003	35	700		
650	134	00	07		136	08	14	321	41	137	04	01		10	06	346	34	137	06	11	353</																		

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																			
Pressure Time M.S.L. Surf Freezing	09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		Time M.S.L. Surf Freezing																																							
	1014.3		mb		1017.5		mb		1021.3		mb		1022.3		mb		1024.1		mb		1024.8		mb		1025.7		mb		1025.8		mb																																									
	1004.1		mb		1015.8		mb		1020.4		mb		1013.2		mb		1022.0		mb		1020.0		mb		1008.7		mb		1014.7		mb																																									
890		mb		770		mb		860		mb		826		mb		942		mb		950		mb		930		mb		918		mb		720																																								
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb																																							
Surf	2.7	39	39	200	22	0.4	42	40	260	03	0.2	39	36	2.6	38	31	Calm	0.6	32	30	Calm	1.2	33	32	Calm	4.4	31	29	Calm	2.9	37	35	000	00	0.3	44	40	170	13	Surf																																
1000	3.8	39	39			4.6	43	40			5.6	38	34	6.1	40	32	248	04	6.3	36	29	236	06	6.4	34	32	339	05	6.6	34	31		6.8	43	37	180	08	6.9	42	38	171	13	1000																													
950		34	34	229	27		39	38	273	14		35	30		35	24	252	04		33	29	262	08		32	27	341	06		34	26	005	05		36	30	205	09		41	38	167	11	950																												
900	31.7	33	33	234	27	32.7	34	33	282	14	33.4	30	27	34.0	27	19	262	08	34.1	28	23	256	12	34.1	28	20	345	07	34.3	28	20	346	06	34.8	30	24	264	06	34.6	40	38	161	08	900																												
850		29	29	244	27		35	24	300	13		31	28		28	16	270	06		27	15	306	08		20	7	347	13		21	13	347	07		27	11	325	09		39	36		850																													
800	62.4	25	25	253	24	63.8	33	18	307	15	64.1	27	24	64.7	30	05	284	11	64.4	23	02	345	15	64.3	19	00	351	16	64.6	19	05	338	11	65.4	27	04	346	12	66.0	34	29		800																													
750		23	21	279	20		31	07	325	18		20	18		24	08	304	22		21	09	349	20		13	10	355	18		15	05	340	14		23	12	352	18		35	21		750																													
700	96.8	22	15	324	25	98.7	25	01	333	22	98.3	15	12	99.2	21	09	332	28	98.6	16	08	351	25	98.1	10	23	359	18	98.5	14	15	359	19	99.8	19	08	355	20	100	29	04		700																													
650		17	05	330	31		16	07	321	22		14	04		18	02	346	24		08	02	354	28		06	19	002	27		08	21	358	25		14	06	357	26		22	06		650																													
600	136	10	05	334	36	138	07	15	316	23	137	08	03	138	10	06	346	34	137	04	01	358	33	136	01	13	001	34	137	02	22	356	39	139	07	01	355	30	140	15	13		600																													
550		00	13	338	38		02	19	321	24		01	14		02	15	337	47		05	12	004	36		05	11	359	37		06	20	356	37		00	09	359	36		07	11		550																													
500	181	09	20	343	38	182	11	25	330	29	82	08	25	183	06	26	338	42	184	14	21	010	42	180	15	20	001	41	181	13	23	360	42	183	09	21	360	59	185	03	31		500																													
450		19	21	351	42		20	36	327	28		19	34		16	31	340	48		23	32	005	50		24	33	006	48		24	35	360	45		19	25	359	61		15	43		450																													
400	233	20	42	355	42	235	32	48	323	34	234	31	37	236	28	37	342	50	233	35	45	001	51	232	36	45	008	51	233	36	46	357	46	236	30	38	001	51	238	27	53		400																													
350		44		353	48		45		336	39		42			43		346	52		47		001	59		50		007	51		50		359	48		45		001	48		41		350																														
300	297	57		349	47	298	60		339	39	298	58		300	58		348	52	296	61		002	63	295	66		002	51	295	66		357	55	299	60		360	59	302	56		300																														
250		71		344	42		76		342	41		72			76		346	60		63		005	60		72		007	46		73		359	52		76		002	59		71		250																														
200	381	87		331	33	381	87		339	40	382	84		383	80		340	50	380	73		357	42	379	70		360	42	379	70		354	45	383	85						200																															
170		73		326	29				339	40		78			76		342	40		69		355	37		71		358	47		70		353	44		72						170																															
150		72		321	33										72		343	42		71		354	35		68		353	39		68		356	41		74						150																															
130		72		321	33										72		343	42		71		355	37		68		353	39		70		358	39		75						130																															
110		73		321	25										72		343	42		71		357	30		68		353	39		72		342	29		75							110																														
100	523	73													72		343	42		71		357	30		68		353	39		72		342	22		75							100																														
90															72		343	42		71		357	30		68		353	39		72		342	22		75							90																														
80															72		343	42		71		357	30		68		353	39		72		342	22		75							80																														
70															72		343	42		71		357	30		68		353	39		72		342	22		75							70																														
60															72		343	42		71		357	30		68		353	39		72		342	22		75							60																														
																																	Isothermal.				Inversion				Inversion				Inversion				Inversion				Inversion				Inversion				Inversion											
																																	767 mb - 707 mb 23°				1016 mb 42° - 1005 mb 44° 875° - 32° - 840° - 36°				897 mb 30° - 860 mb 32° 710° - 14° - 679° - 17°				1013 mb 38° - 995 mb 41° 870° - 26° - 827° - 32° 725° - 19° - 703° - 22°				1022 mb 32° - 998 mb 37° 834° - 21° - 785° - 24° 650° - 08° - 628° - 09° 236° - 78° - 225° - 74°				1020 mb 33° - 986 mb 35° 830° - 17° - 811° - 20° Isothermal. 270° - 255 mb - 71°				1009 mb 31° - 995 mb 38° 514° - 14° - 495° - 13° 287° - 76° - 225° - 74° Isothermal. 845° - 818 mb 20° 724° - 691° - 14°				1015 mb 37° - 1000 mb 43° Isothermal. 850° - 800 mb 27°				977 mb 41° - 963 mb 42° 918° - 39° - 883° - 42° 774° - 32° - 750° - 35°							
																																	I 207 mb - 84° 37.300°				I 207 mb - 89° 37.400°				I 203 mb - 84° 37.800°				I 224 mb - 84° 35.200°				I 236 mb - 78° 34.600° I 216° - 76° 36.500°				I 221 mb - 77° 35.900°				I 237 mb - 76° 34.500°				I 202 mb - 85° 38.100°				I 222 mb - 80° 36.400°							
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE								STATION																																			
Pressure Time M.S.L. Surf Freezing	09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		09L		G.M.T.		Time M.S.L. Surf Freezing																																							
	1006.7		mb		1020.0		mb		1022.5		mb		1024.1		mb		1025.9		mb		1026.7		mb		1027.2		mb		1027.9		mb																																									
	1006.4		mb		1018.3		mb		1021.6		mb		1024.0		mb		1023.8		mb		1021.9		mb		1010.7		mb		1016.7		mb																																									
811		mb		768		mb		850		mb		823, 869, 775		mb		840		mb		943		mb		931		mb		910		mb																																										
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb																																							
Surf	2.7	42	42	240	07	0.4	42	41		0.2	39	37	2.6	39	32	250	05	0.6	33	31	Calm	1.2	31	31	Calm	4.4	31	30	Calm	2.9	39	37	Calm	Surf																																						
1000	4.4	42	42			5.3	42	41		5.9	39	36	6.6	39	32	300	05	6.8	38	36	270	09	6.9	35	33	267	07	7.0	36	34		4.6	42	36	Calm	1000																																				
950		38	37	273	16		39	38			38	34		39	33	306	05		33	30	287	09		33	29	291	08		34	29	296	05		35	31	950																																				
900	31.5	33	31	278	15	33.4	31	27	34.0	38	32		34.7	36	31	310	05	34.6	31	27	287	10	34.7	27	22	333	09	34.9	28	24	308	05	35.1	31	17	900																																				
850		33	27	298	16		39	23		32	27		30	28	310	06																																																								

Wednesday 28th February 1951.

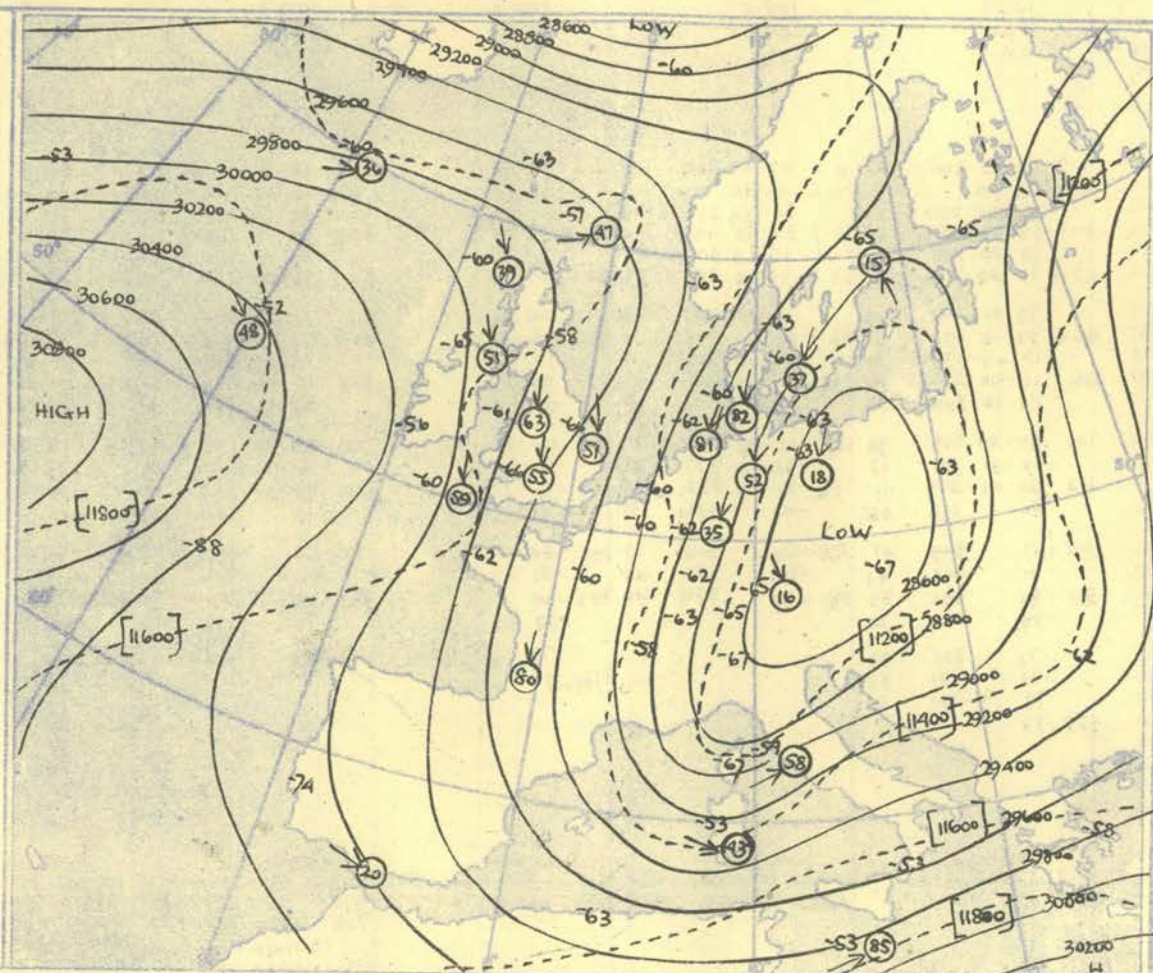
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb., and 300 mb. levels at about 03h G.M.T.



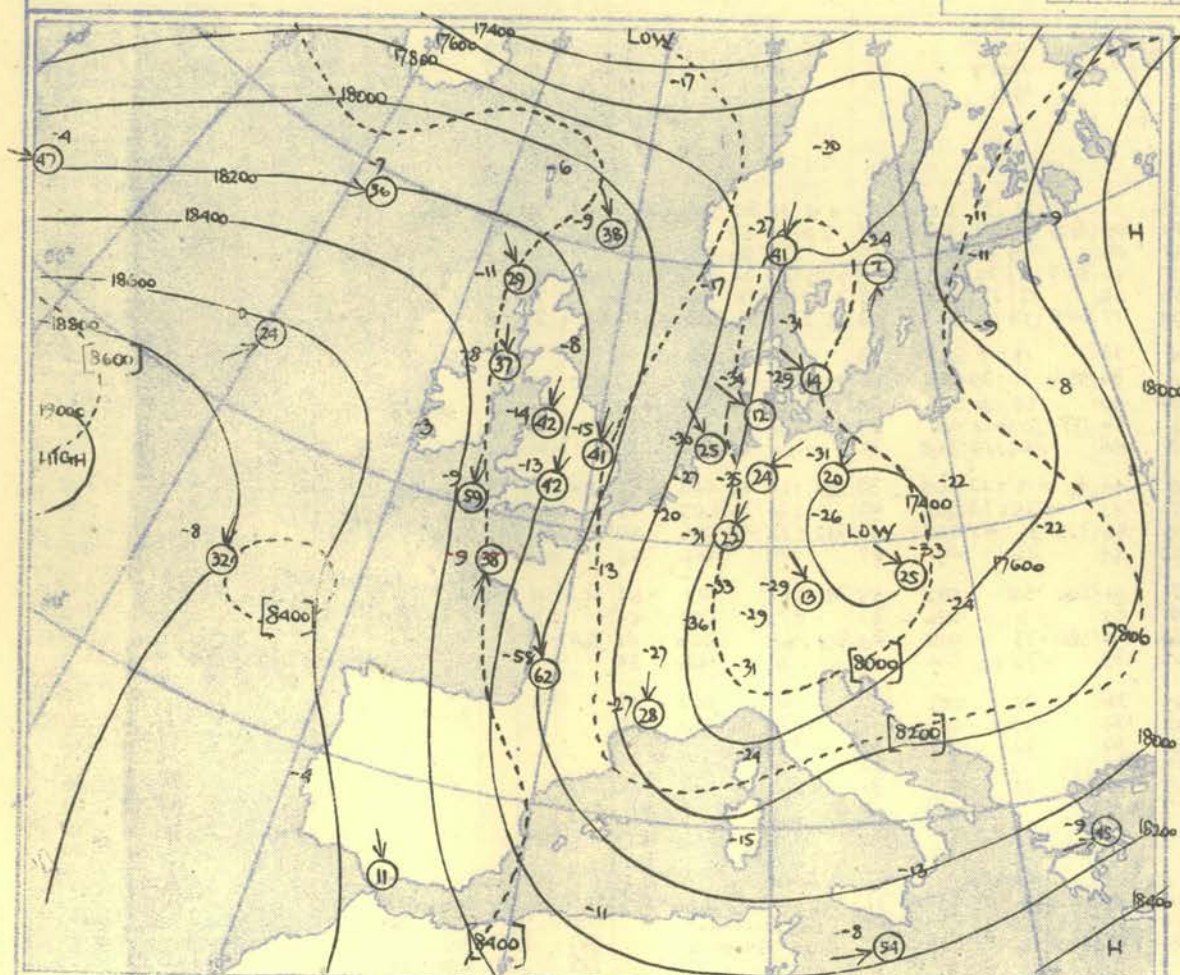
The continuous lines are contour lines of the 700 mb. surface
The dotted lines are isopleths of the thickness of the layer 2000-700 mb.

Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. $52\frac{1}{2}^\circ$ N.

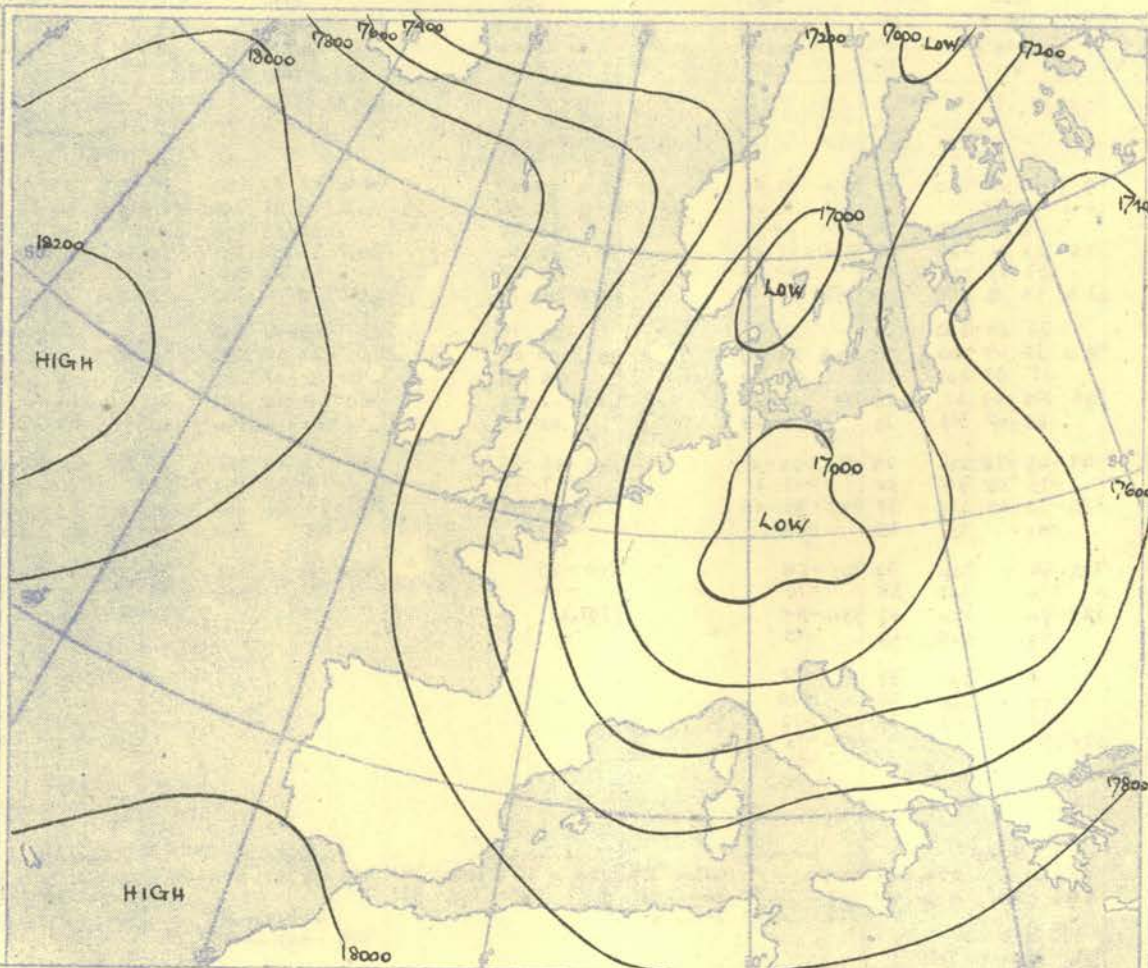
100 80 60 40 20 10 knots



The continuous lines are contour lines of the 500 mb. surface
The dotted lines are isopleths of the thickness of the layer 500-300 mb.



The continuous lines are contour lines of the 300 mb. surface
The dotted lines are isopleths of the thickness of the layer 700-500 mb.



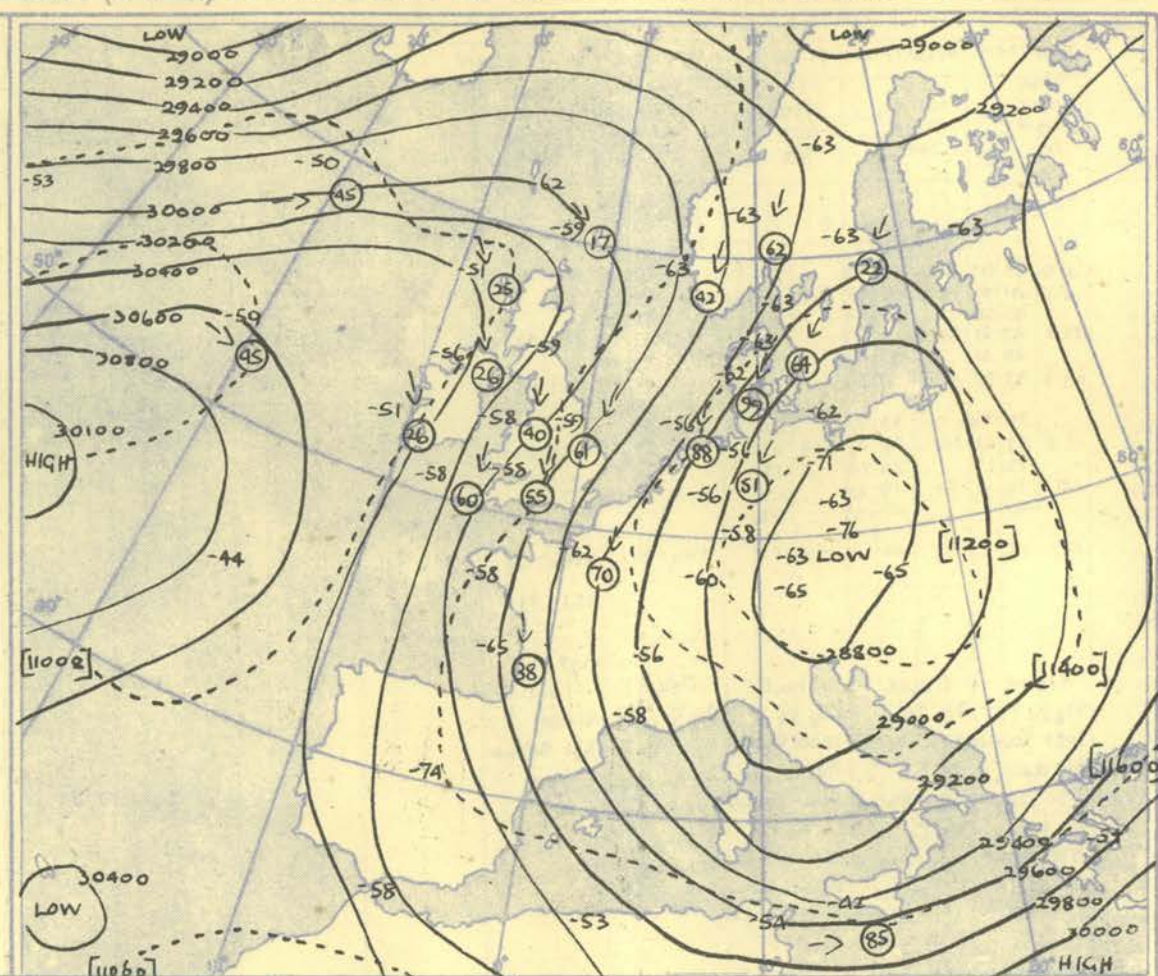
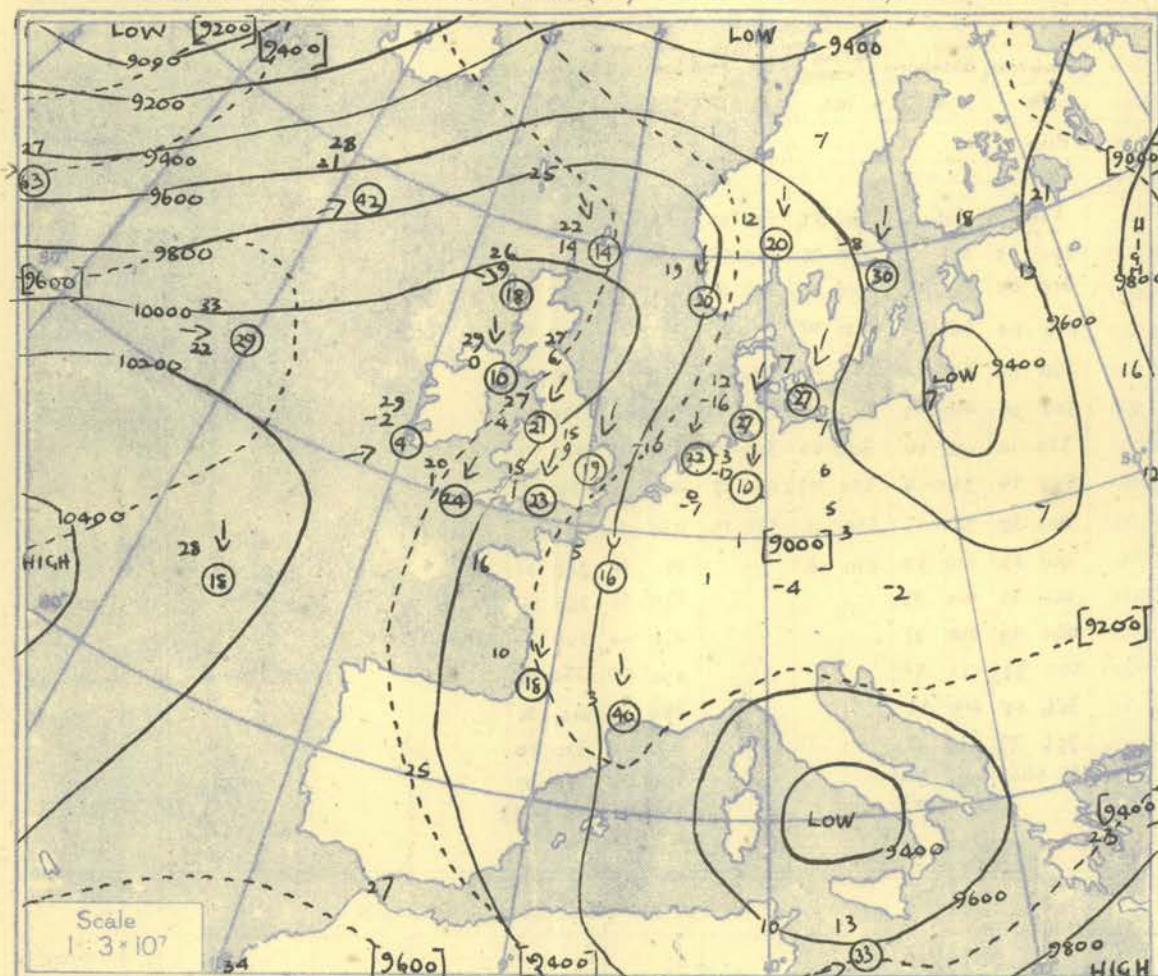
Isopleths of Thickness 500-1000 mb.

AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

Pressure		43-1N 17-0W			47-6N 12-3W			43-2N 17-0W			39-5N 12-2W			51-0N 00-24W							Time M.S.L. Surf (Freezing)	
Time	M.S.L.	Surf	Pressure	Height ft./100	Temp.	Dew	Height ft./100	Temp.	Dew	Height ft./100	Temp.	Dew	Height ft./100	Temp.	Dew	Height ft./100	Temp.	Dew	Pressure			
1215h	1022.6	mb	1019.0	75	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
14h	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb	1020	mb	1020	mb	1027.3	mb	
1430L	1021.7	mb	1018.1	730	mb	730	mb	1030	mb	1020	mb	730	mb	1023	mb							

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS

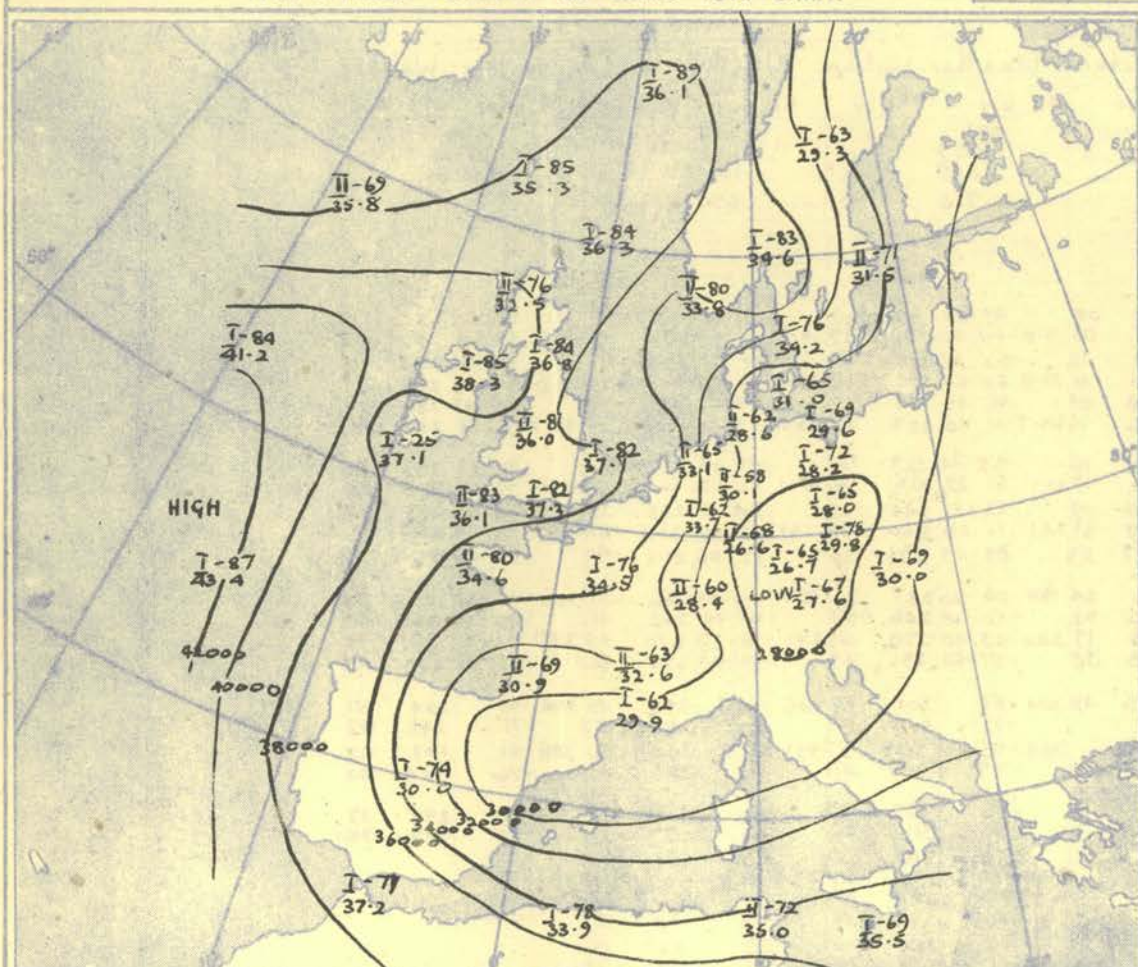
Ship	Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Ship									
Lat/Long	59°N 19°1'W				59°2'N 19°2'W				59°0'N 19°2'W				59°0'N 19°2'W				52°4'N 19°8'W				52°6'N 19°8'W				52°5'N 19°3'W				52°6'N 19°7'W				Lat/Long									
Pressure (Time M.S.L. Surf Freezing)	03h G.M.T. 1013 mb 1012 mb 790 mb				09h G.M.T. 1009 mb 1009 mb 750 mb				15h G.M.T. 1004 mb 1004 mb 740 mb				21h G.M.T. 1001 mb 1001 mb 710 mb				03h G.M.T. 1021 mb 1021 mb 710 mb				09h G.M.T. 1019 mb 1019 mb 710 mb				15h G.M.T. 1017 mb 1017 mb 690 mb				21h G.M.T. 1016 mb 1016 mb mb				G.M.T. mb mb mb	Time M.S.L. Surf Freezing								
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Pressure mb									
Surf		46	44	190 18		45	45	190 28		48	46	200 28		45	45	170 08		49	49	190 15		60	50	230 15		51	50	250 18		51	50	252 18		Surf								
1000	3-5	45	42	201 20	2-5	44	42	188 22	1-1	48	47	200 28	0-2	48	48	218 28	5-4	47	46	177 06	5-0	50	50	192 17	4-6	50	50	230 15	4-2	51	50	252 18	1000									
950		48	24	212 24		50	18	195 33		46	46	202 37		45	45	228 41		51	47	180 10		52	52	198 18		51	51	233 17		52	52	257 21	950									
900	31-9	44	22	230 25	31-0	47	06	200 33	29-7	46	46	210 38	28-7	44	44	233 43	34-1	49	26	190 10	33-8	50	50	204 18	33-4	53	46	240 19	33-0	49	48	269 27	900									
850		37	21	234 27		40	34	209 31		43	40	220 44		40	40	234 42		48	14	208 09		46	46	214 17		49	40	246 19		45	43	286 28	850									
800	63-1	33	30	243 29	62-4	36	29	210 33	61-3	38	34	227 45	60-0	36	29	233 39	66-0	40	25	226 14	65-7	41	40	223 21	65-4	43	28	251 20	64-8	39	35	287 25	800									
750		28	28	261 30		33	21	210 36		33	29	227 40		29	21	232 44		36	14	236 16		35	34	229 21		41	26	257 24		33	31	293 25	750									
700	97-9	23	23	264 33	97-4	25	09	210 35	96-5	28	21	228 42	94-9	25	11	231 49	10-1	31	01	250 19	10-1	31	29	238 20	10-1	33	22	263 29	10-0	30	28	288 30	700									
650		17	17	263 30		21	06	207 36		21	14	230 42		18	04	232 45		25	16	246 19		25	16	246 19		24	17	245 33		24	21	283 35	650									
600	137	10	09	258 37	137	12	01	208 32	136	16	05	225 41	134	10	15	231 44	141	18	22	229 21	141	17	04	260 25	141	17	10	265 34	140	18	14	265 38	600									
550		03	01	259 34		06	02	209 27		08	04	222 43		05	25	231 52		10	23	227 23		09	09	271 25		12	06	265 42		10	05	254 36	550									
500	182	09	11	254 36	182	02	07	210 29	182	01	19	230 45	179	00	21	219 24	186	00	20	287 31	187	04	07	266 51	186	02	04	258 38		186	02	04	258 38	500								
450		18	22	249 36		12	15	210 30		11	27	229 48		15	56	232 53		10	19	222 22		12	28	266 57		07	18	262 41		10	18	265 40	450									
400	234	31	36	257 39	235	23	40	210 33	235	23	40	227 38	232	27	59	236 57	240	23	32	238 19	240	18	29	270 51	241	18	29	270 39	239	21	30	261 43	400									
350		44		253 31	395	25		210 33		36	51	231 36		35	49	253 30		33	49	253 30		33	54	291 49		33	43	278 42		35	45	253 47	350									
300	298	60		257 36	mb)				300	50		234 45					305	52		275 48	304	54		301 60	306	50		282 45	304	53		254 51	300									
250		76								65		227 44					(252	69				72		305 67		67		282 57		71		242 49	250									
200	(223	81							285	70		228 38										85		309 57	391	81		300 80	388	81		261 42	200									
170	mb)									65		234 34										77		309 41		68		286 42		76		284 42	170									
150										65		252 36										76		309 39		68		272 29		74		295 39	150									
130										65		273 40										75		311 35		68		279 23		75		299 35	130									
110										64		267 36										74		302 30		72		291 22		77			110									
100									531	65		254 35										76		290 27	534	71		287 20	530	79		100										
90										66		249 31										78		284 24		71		276 17		80		90										
80										68		263 31										80		284 21		74		289 15		81		80										
70										68		275 39										82		284 15		72		227 15				70										
60	Inversion 990 mb 44°-970mb 48° Isothermal 970-929 mb 48° 824-808.. 34°				Inversion 985mb 43°-962mb 51° Isothermal 970-762mb 35° Isothermal 975-888 mb 46°				(053-68 mb)				Isothermal 712-695 mb 25° 550-546.. 5°				Inversion 1021 mb 45°-975mb 51° Isothermal 975-939 mb 51° 918-890.. 49° 860-850.. 48°				(062-81 mb)			Inversion 1019 mb 49°-950mb 52° Isothermal 1017-1000 mb 50° 983-760.. 41°				Inversion 950 mb 51°-921mb 55° 566.. 11°-555.. 13° Isothermal 1017-1000 mb 50° 983-760.. 41°							60							
Tropopause	N.R.				N.R.				11229 mb-69°35,800'				N.R.				N.R.				I 209 mb-87°37,900'				I 180 mb-84°41,200'				I 205 mb-81°38,300'				Tropopause									



Gradient Wind Scale for Contours
at intervals of 200 ft. at Lat. 52° N.

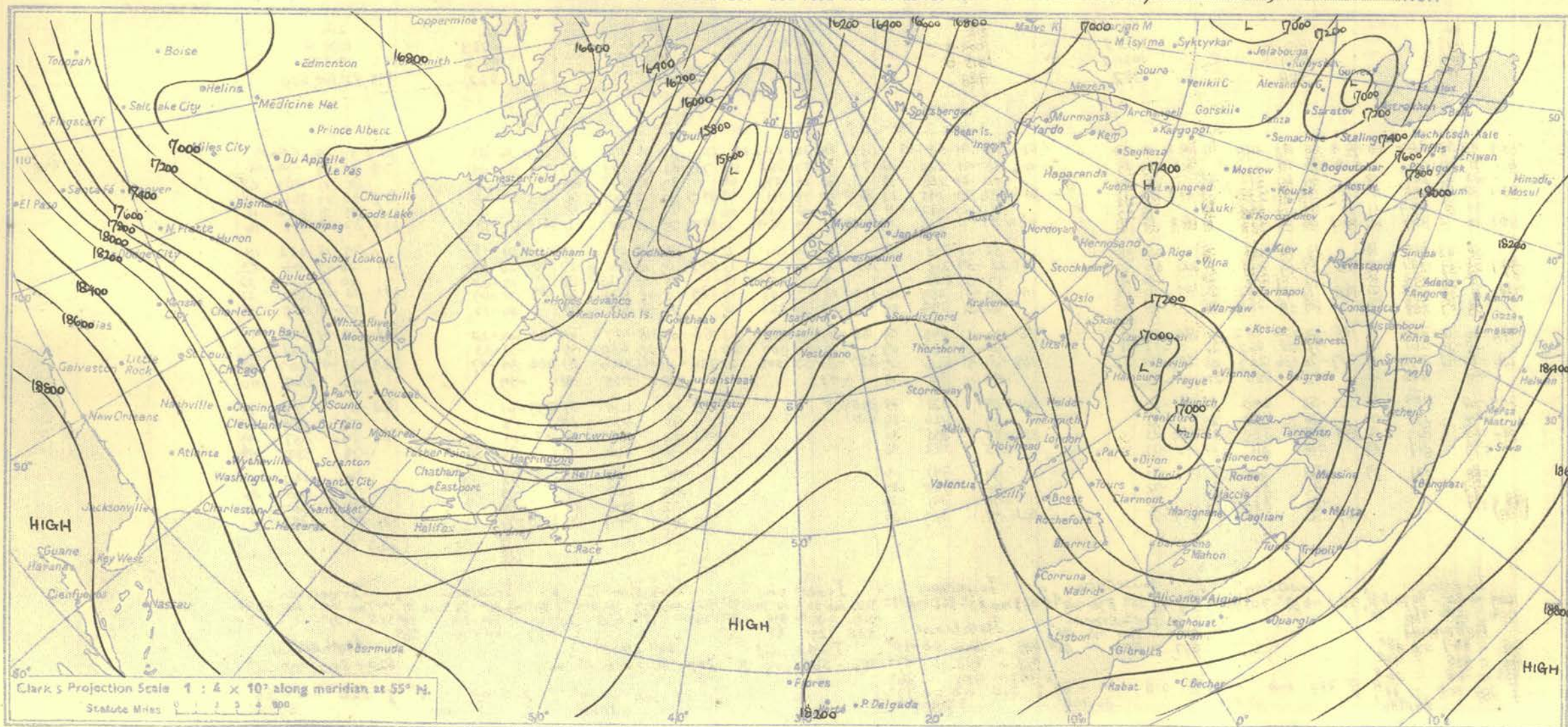
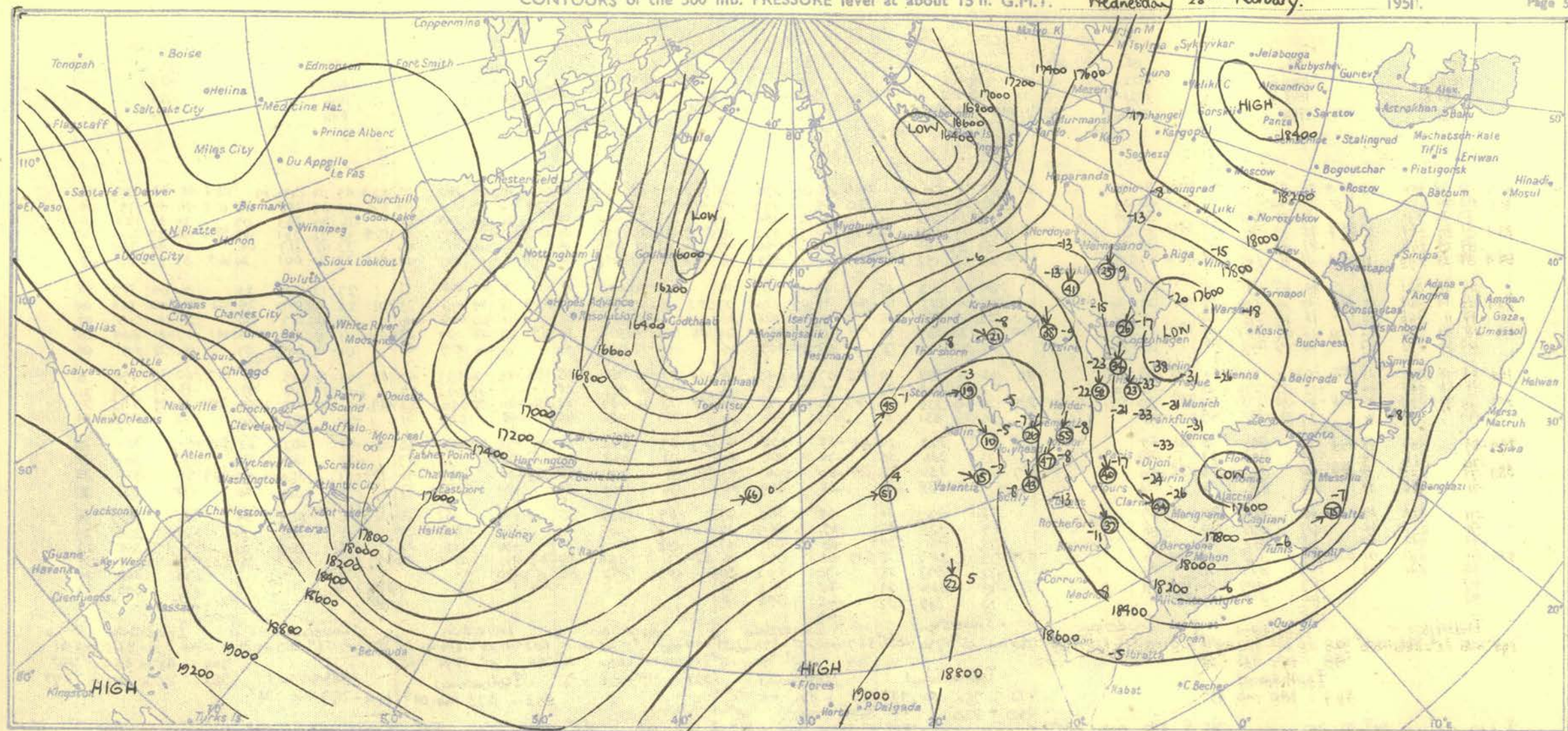
100 80 60 40 20 10 0 knots

TROPOPAUSE CHART at about 15h. G.M.T.



NOTES ON THE AEROLOGICAL SITUATION.

Pronounced cooling occurred southwards from Davis Straits in the rear of the depression south of Greenland; otherwise little material change.



RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION		
Pressure mb	Time M.S.L.	15h		G.M.T.	Time M.S.L.	15h		G.M.T.	Time M.S.L.	15h		G.M.T.	Time M.S.L.	15h		G.M.T.	Time M.S.L.	15h		G.M.T.	Time M.S.L.	15h		G.M.T.	Time M.S.L.	15h		G.M.T.	Time M.S.L.	15h		G.M.T.	Time M.S.L.	15h		G.M.T.			
	Surf	1018.9		mb	Surf	1020.5		mb	Surf	1022.6		mb	Surf	1024.2		mb	Surf	1025.9		mb	Surf	1028.9		mb	Surf	1026.7		mb	Surf	1027.8		mb	Surf	1025.3		mb			
	(Freezing)	781		mb	(Freezing)	769		mb	(Freezing)	740		mb	(Freezing)	845, 739		mb	(Freezing)	829		mb	(Freezing)	911		mb	(Freezing)	905		mb	(Freezing)	820		mb	(Freezing)	720		mb			
Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots				
Surf	02.7	45	42	260	09	00.4	46	42	230	05	00.2	51	42	02.6	49	40	CALM	00.6	48	34	270	05	01.2	14	38	190	08	01.4	47	34	280	03	02.9	47	36	CALM			
1000	5.1	43	40		5.5	43	40	230	15	6.1	46	39		6.6	48	39	CALM	7.0	44	32	270	09	6.9	41	35	08	7.1	46	34	260	04	7.4	44	34	255				
950		37	36	271		37	34	235		35	37	34			43	34	212	06		36	27	284			37	31	08	39	29	265			36	29	283				
900	33.1	33	30	287	11	33.8	35	29	236	15	34.3	37	31	35.0	33	29	226	06	34.9	30	24	322	08	34.9	31	26	09	35.2	31	22	275	09	35.4	30	26	221			
850		37	24	290	11		41	23	239	12		38	26		33	28	255	10		32	27	046	09		31	22	10		33	16	308			33	17	07			
800	64.4	34	23	293	14.65	35	11	228	15	65.6	37	15		66.0	28	23	292	12	65.7	30	23	352	06	65.3	18	10	08	65.7	23	11	354	10	66.3	28	20	001			
750		29	20	301		30	07	251	16		33	11			34	00	313	09		27	17	007	16		18	03	003	12		21	02	008	17		27	12	006		
700	99.1	22	14	304	100	26	09	274	18	101	27	06		101	29	00	331	10	100	27	04	020	27	99.2	15	09	013	19	99.9	15	04	016	23	101	22	01	010		
650		17	11	298		18	09	278	20		19	01			22	08	334	15		19	04	028	30		11	03	010	31		11	00	025	26		17	04	012		
600	138	10	05	293		12	04	267	19	140	11	06		140	14	20	337	14	140	10	08	032	29	138	05	08	018	37	139	05	08	030	33	140	17	10	013		
550		02	06	293		05	03	262	18		03	23			05	27	340	13		03	19	039	24		01	12	029	45		01	16	029	41		01	19	009		
500	183	08	15	302	21	185	03	270	19	185	05	38		186	05	21	353	10	185	07	30	042	26	183	08	20	031	55	183	08	26	033	47	185	08	28	009		
450		18	26	303		12	22	276		18	16	50			12	32	354	12		15	41	041	26		17	31	032		58	17	37	038		49	17	37	018		
400	226	30	39	300	20	238	24	275	20	238	30	57		239	25	40	338	15	237	30	51	021	29	238	33	46	037	63	236	30	48	040	53	237	30	48	010		
350		29	29	296	16	37	48	279	23	43					39	53	331	21		43		016	33		47		036	62	244		027	51	43		005	50			
300	299	57		302	17	303	51	296	25	301	59			304	56		328	26	301	58		008	40	298	59		022	61	299	58		019	55	301	58		002		
250		76		318	18	378	76	304	27	385	80				73		336	33		74		002	40		73		013	59		73		020	57		75		007		
200	383	74		325	24	378	76	308	29	385	80			387	84		336	32	384	80		004	41	382	79		007	95	383	78		010	46	384	81		360	45	
170		71		326	28	385	72		26	72					78		338	31		78		035	36		70		008	39		70		039	37		360	40		74	331
150		71		323	34	365	327	29	69						72		339	31		68		360	33		69		005	35		70		358	35		73	359	39		
130		71		322	32	364	323	30	68						69		338	32		69		360	32		69		003	36		71		003	35		73	366	24		
110		72		322	30	365	312	30	71						72		341	34		72		001	27		72		009	31		70		005	32		73	360	26		
100	526	71		321	41	533	316	32	528	71				530	72		342	38	529	68		001	26	526	71		359	29	527	70		004	27	527	72		74	346	28
90		65		321	47	367	307	26	86	71					72		343	28		70		002	30		69		348	30	(25)	70				74	345	27			
80		67				366	307	26	86	71					73		336	29		68		352	23											77	345	27			
70		68				365	307	26	86	71					73		339	32		67		345	21											77	345	27			
60						365	307	26	86	71					73		339	32		67		345	21											77	345	27			
Inversion 95 mb 22°-86.6 mb 38°																																							
Inversion 940 mb 39°-900 mb 45°																																							
Isothermal 967 - 940 mb 39°																																							
Tropopause I 220 mb - 84° 36,300'																																							
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION		
Pressure mb	Time M.S.L.	21h		G.M.T.	Time M.S.L.	21h		G.M.T.	Time M.S.L.	21h		G.M.T.	Time M.S.L.	21h		G.M.T.	Time M.S.L.	21h		G.M.T.	Time M.S.L.	21h		G.M.T.	Time M.S.L.	21h		G.M.T.	Time M.S.L.	21h		G.M.T.	Time M.S.L.	21h		G.M.T.			
	Surf	1019.6		mb	Surf	1019.0		mb	Surf	1022.8		mb	Surf	1024.4		mb	Surf	1026.7		mb	Surf	1026.6		mb	Surf	1028.3		mb	Surf	1028.4		mb	Surf	1025.3		mb			
	(Freezing)	787		mb	(Freezing)	750		mb	(Freezing)	752		mb	(Freezing)	740		mb	(Freezing)	764		mb	(Freezing)	914		mb	(Freezing)	922		mb	(Freezing)	895, 877, 800, 620		mb	(Freezing)	720		mb			
Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots				
Surf	02.7	40	40	220	09	00.4	45	43	200	10	00.2	41	40	02.6	45	41	CALM	00.6	36	34	CALM	01.2	37	34	170	05	01.4	36	33					02.9	39	34	CALM		
1000	5.1	41	41		5.4	44	41		5.8	40	39			6.6	45	41	232	12	7.0	41	37	268	06	7.0	42	37	243	07	7.4	38									