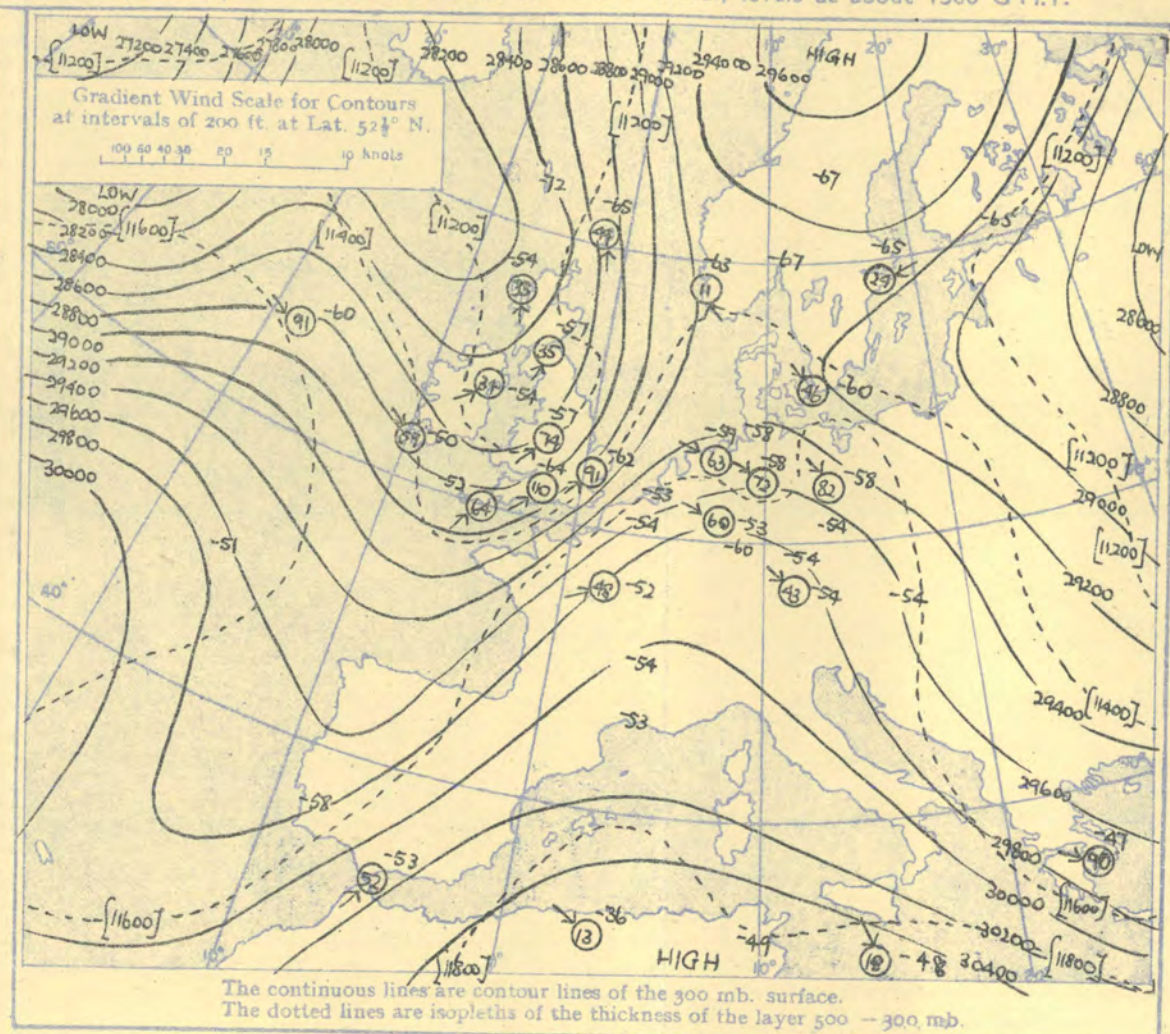
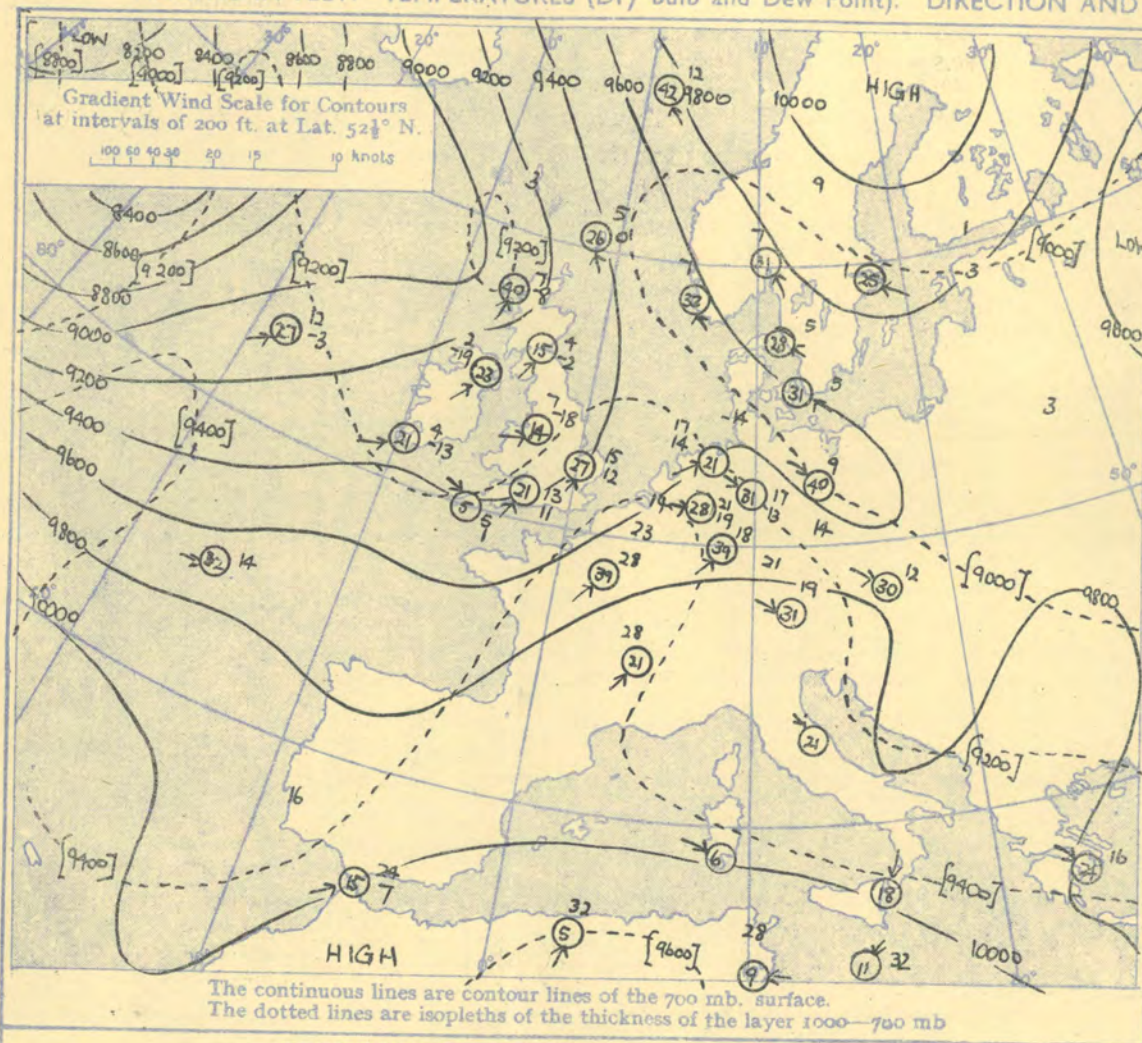


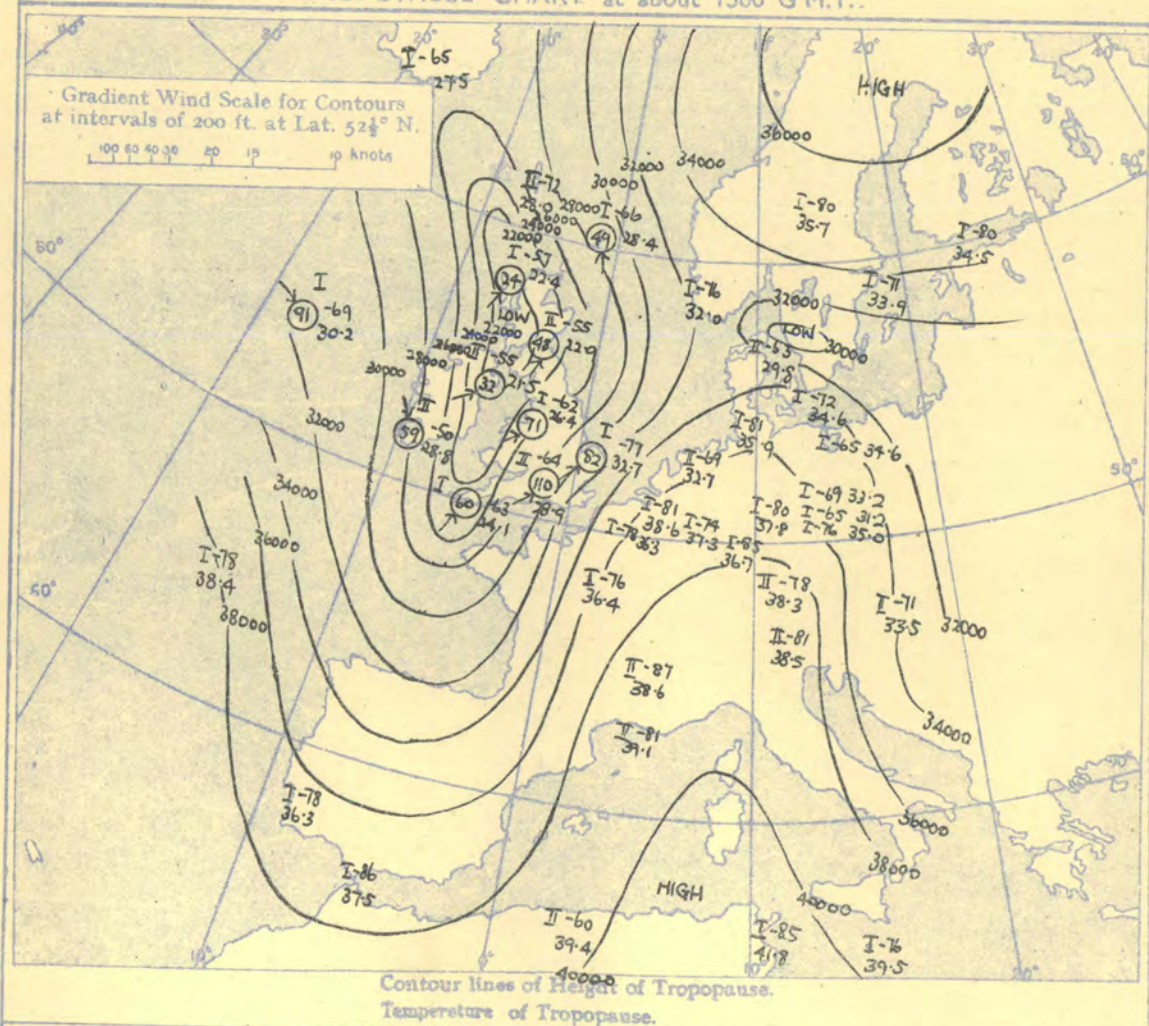
Tuesday 31st January 1960

100S
100S
940

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

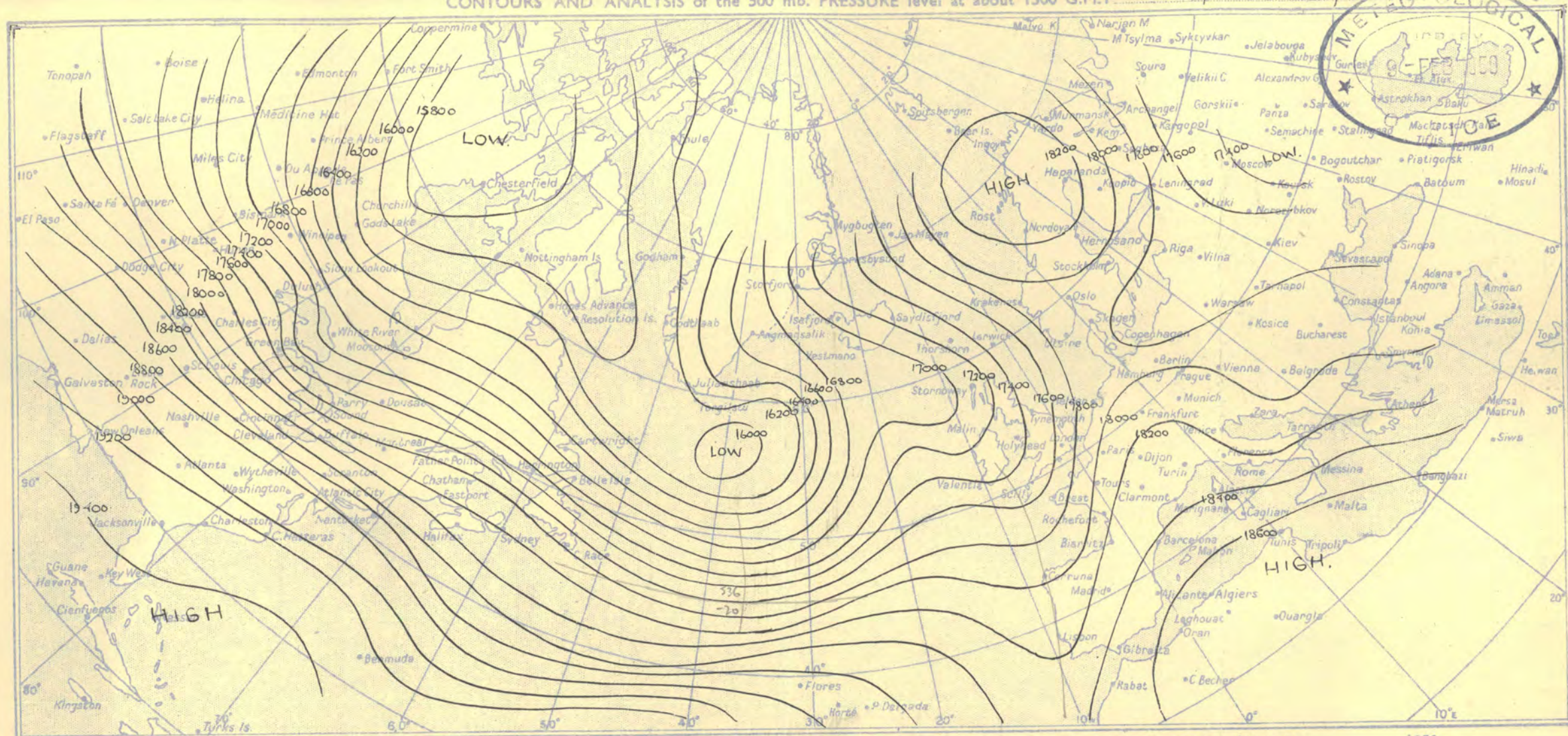


NOTES ON THE AEROLOGICAL SITUATION.

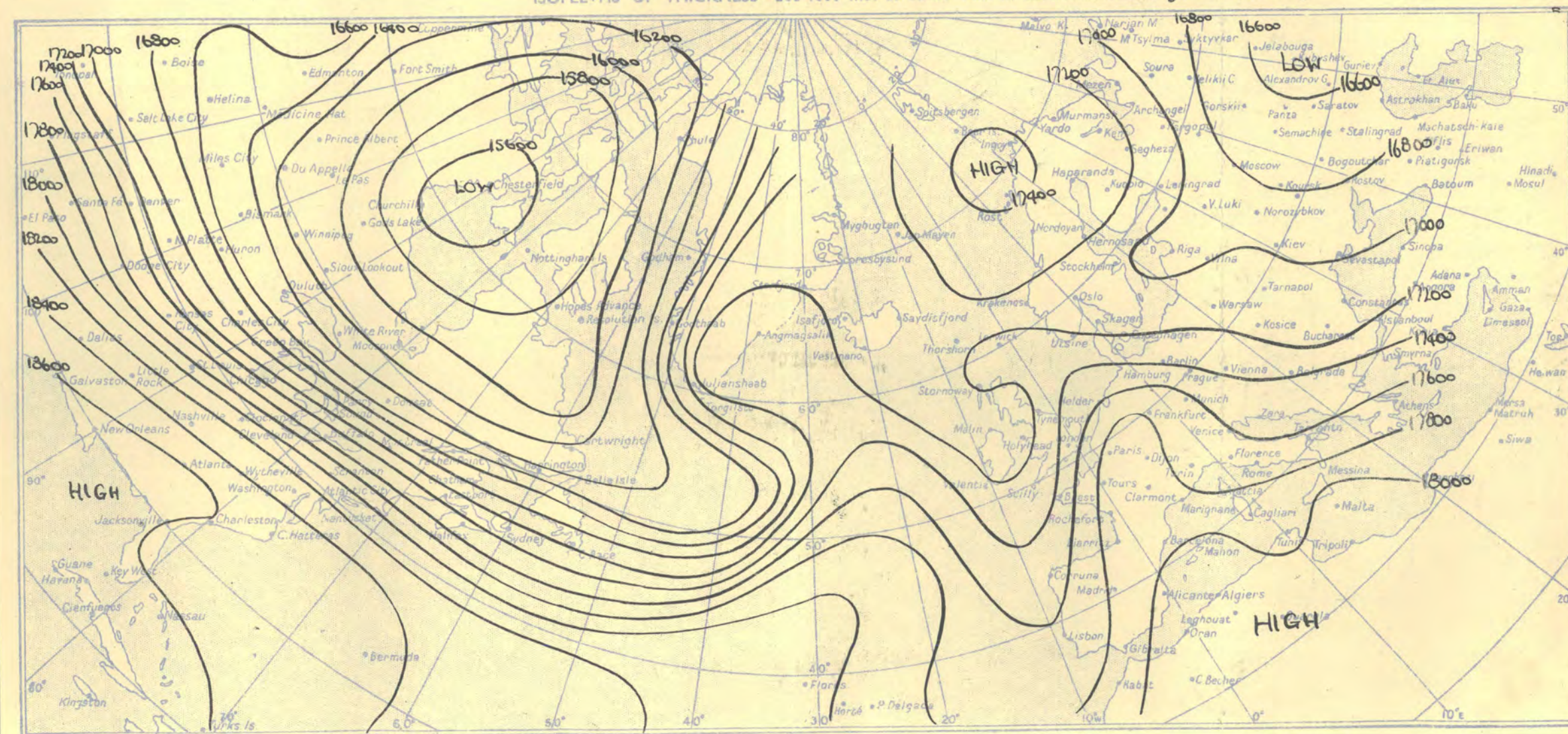
The cold trough in the Eastern Atlantic continued to move slowly eastward to the North Sea, but was greatly reduced on its western side by the more rapid advance to Ireland of a warm ridge from the Central Atlantic. A further flood of very cold air covered the Western Atlantic.

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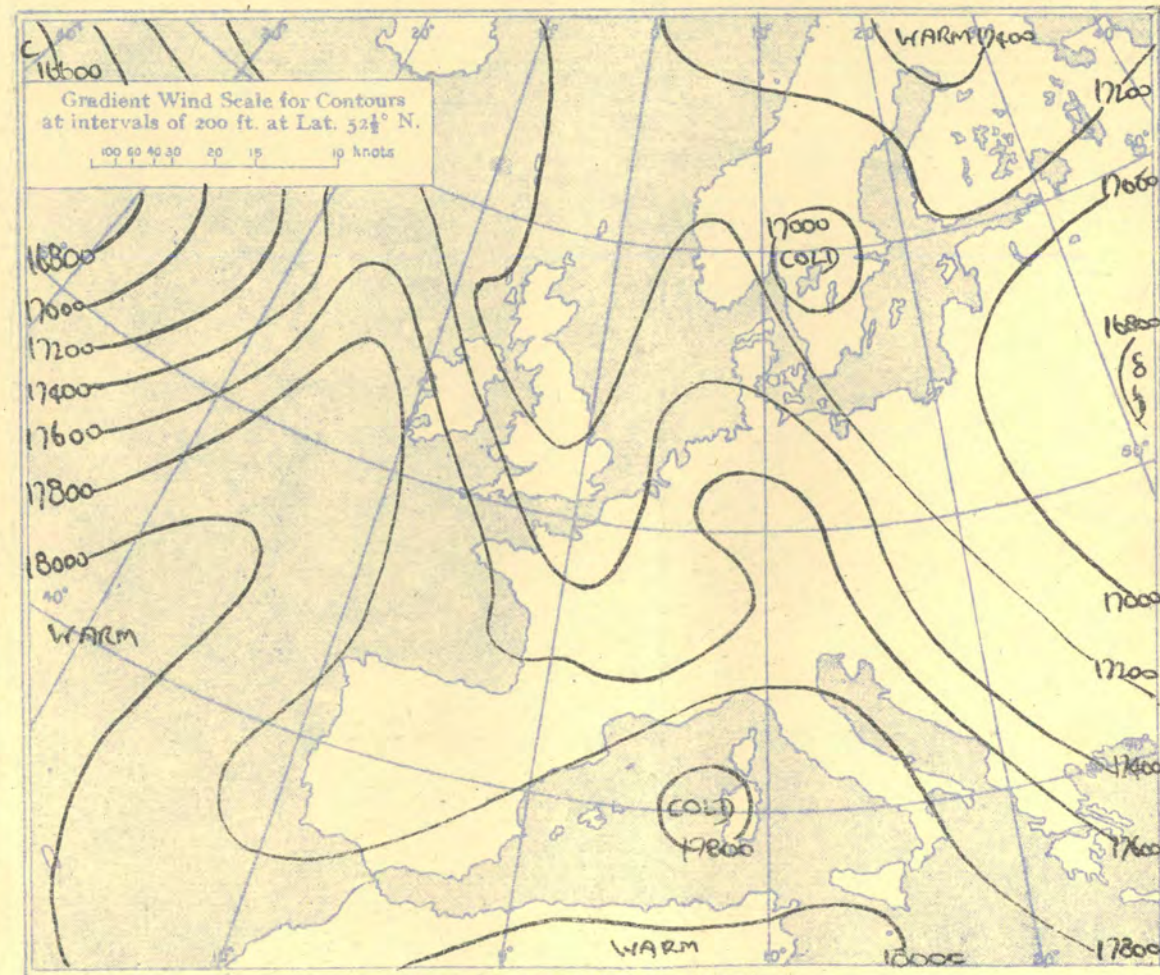
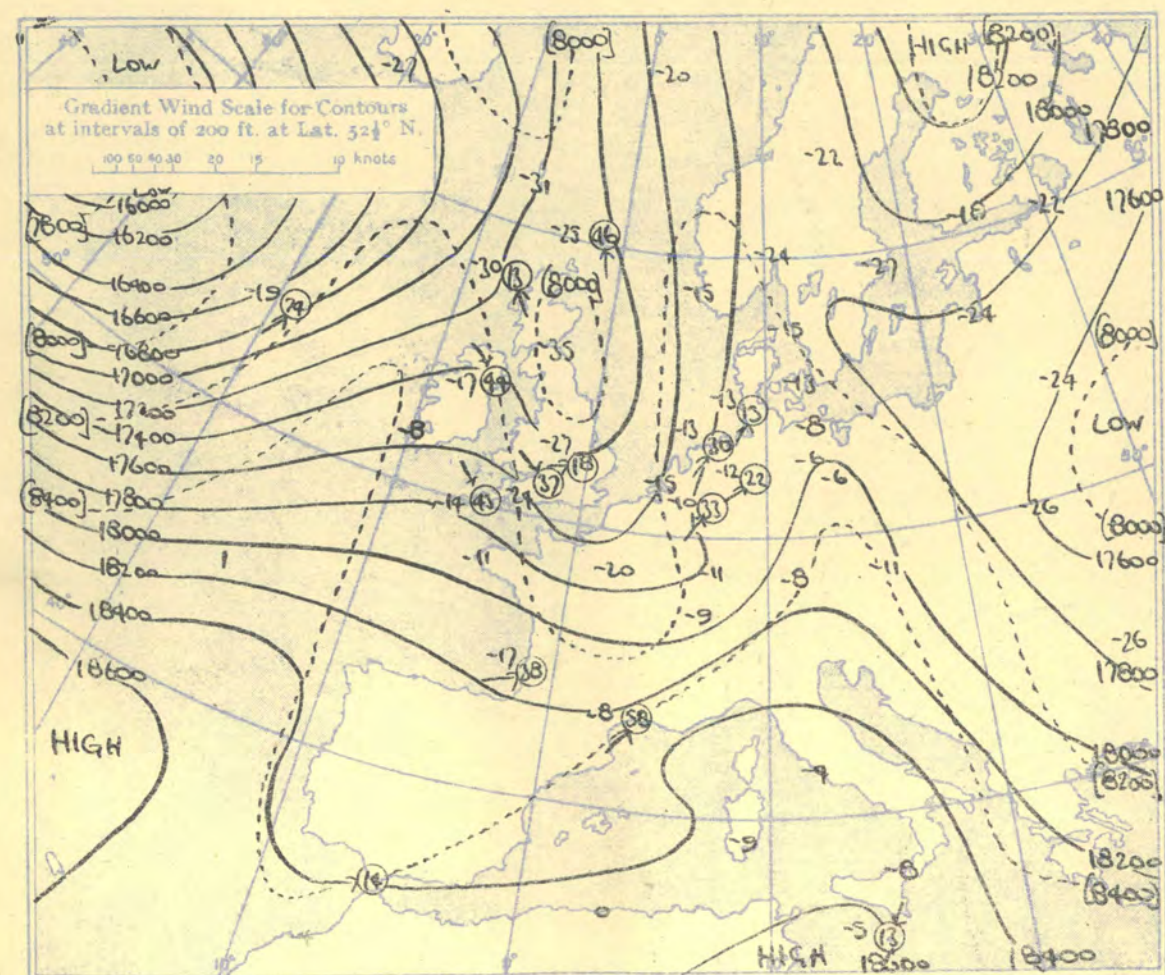
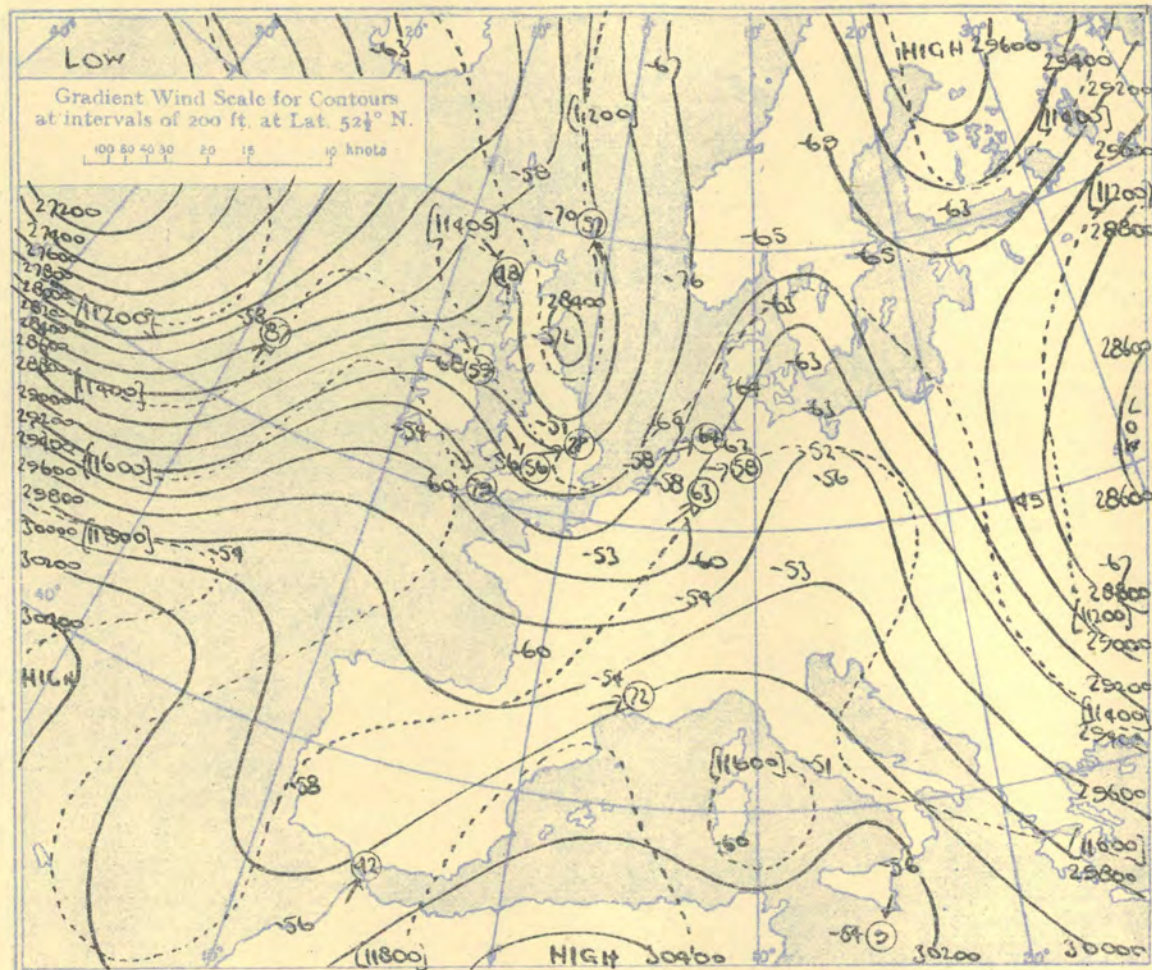
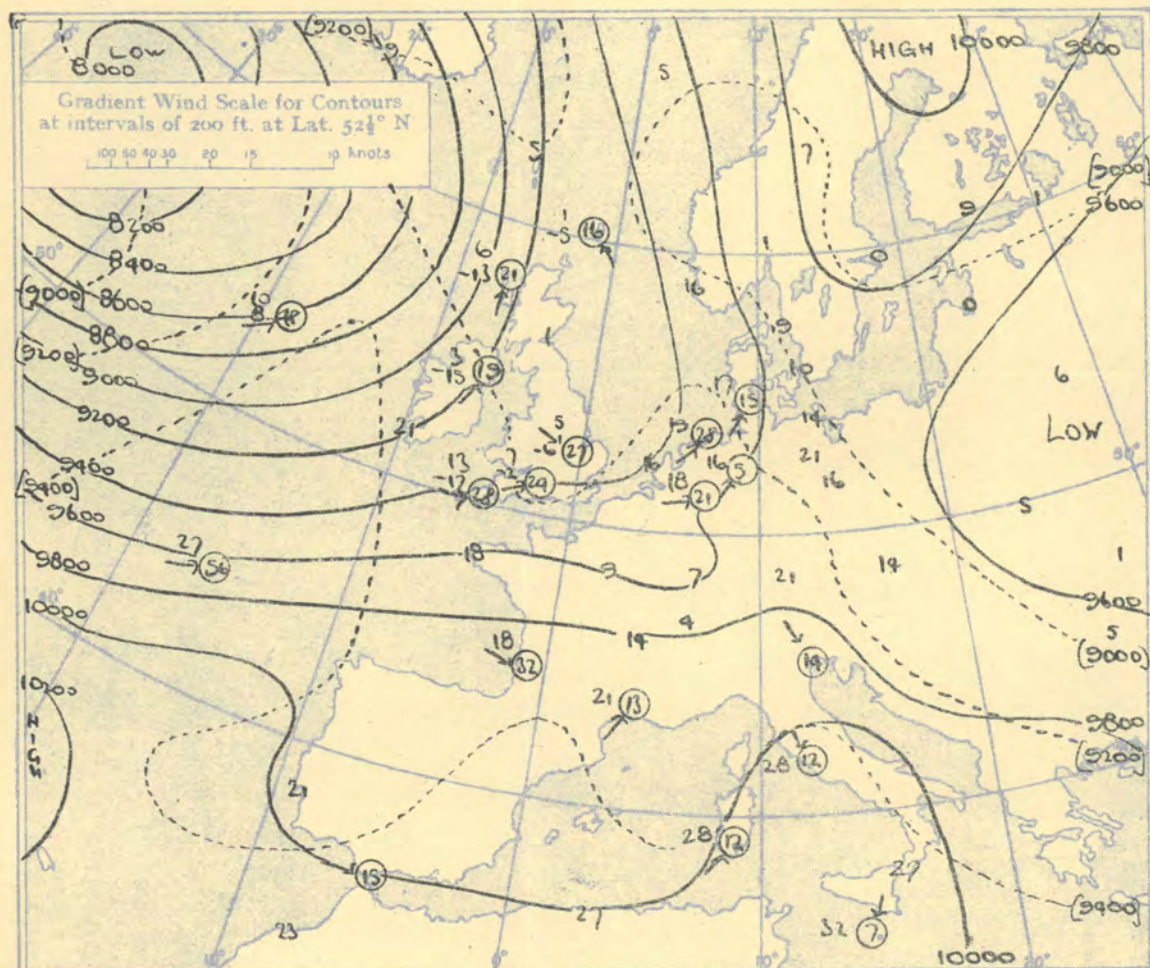
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Tuesday 31st January 1950.



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 0300 G.M.T.



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

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

Wednesday 1st February 1950

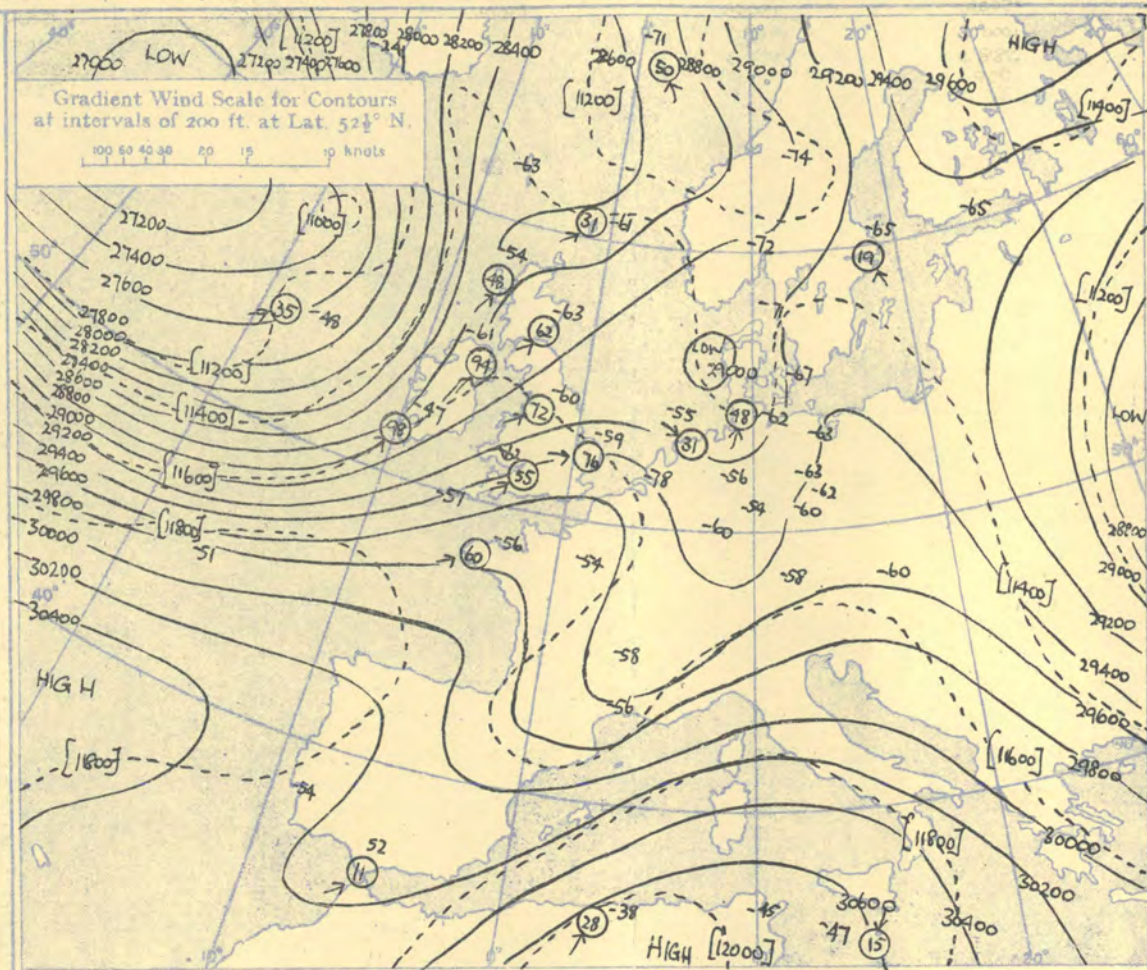
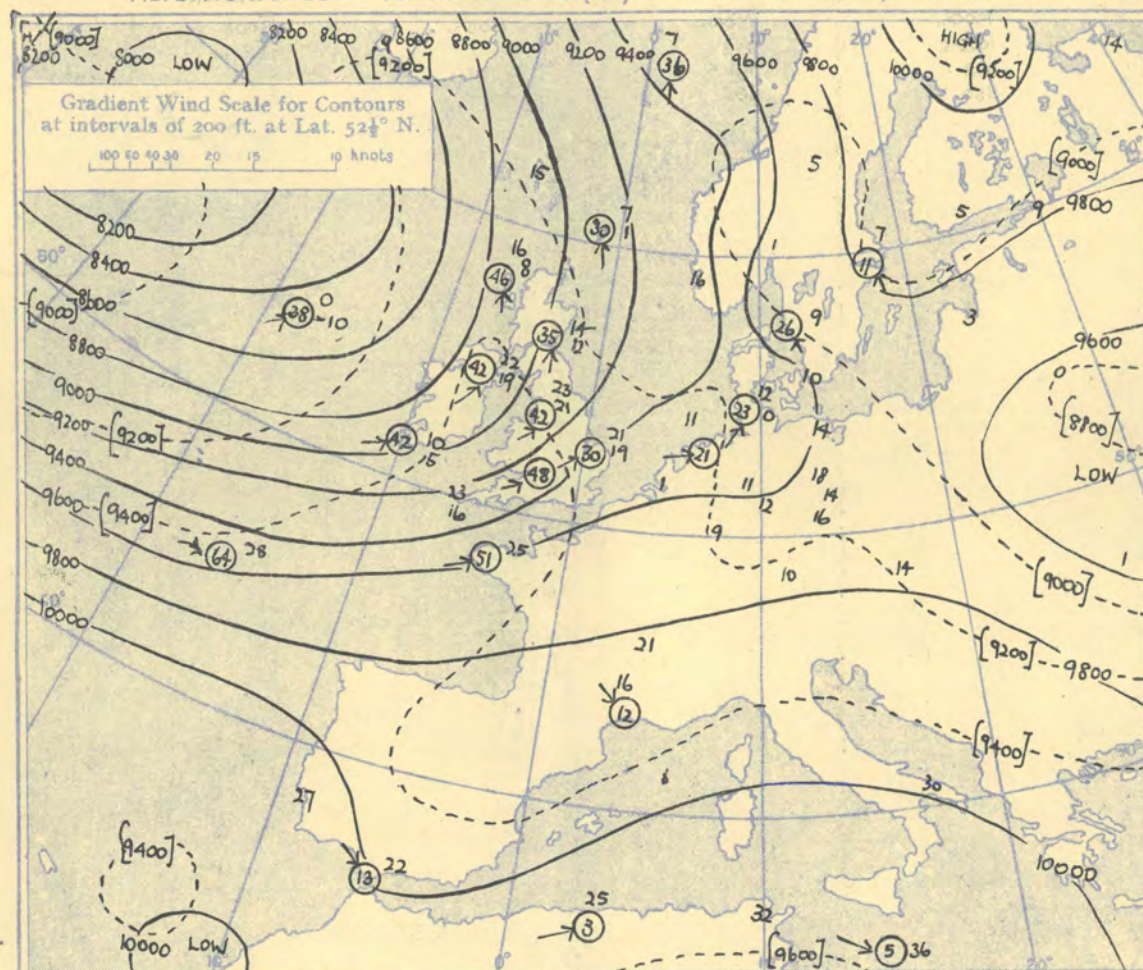
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION		
Time	0300h.				0300h.				0300h.				0300h.				0300h.				0300h.				0300h.				0300h.				0300h.				Time		
M.S.L.	1009.2				1001.3				1005.5				1004.5				1005.8				1005.8				1008.4				1007.5				1007.5				M.S.L.		
Surf	208.8				208.4				209.5				209.6				209.7				209.7				209.7				209.2				209.1				Surf		
Freezing	382				328				Surf.				336				350				334				316				316				316				Freezing		
Pressure	mb	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	
mb	ft./100	°F.	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	°F.	Dir. Vel. knots	ft./100	°F.	°F.	mb
Surf	2.7	34	32	135	32	0.5	39	34	180	15	0.2	27	26	1.1	32	26	160	15	1.2	33	32	270	07	4.4	31	30	260	03	2.9	37	33	Cal.	0.3	43	39	Surf			
1000	2.3	28	27	150	39	0.4	35	28	172	25	1.3	28	27	1.1	33	26	187	24	1.4	33	32	270	07	4.4	31	30	260	03	2.9	37	33	Cal.	0.3	43	39	1000			
950	2.3	28	27	150	39	0.4	35	28	172	25	1.3	28	27	1.1	33	26	187	24	1.4	33	32	270	07	4.4	31	30	260	03	2.9	37	33	Cal.	0.3	43	39	950			
900	2.7	22	21	150	38	28.3	29	25	174	27	29.2	27	22	28.9	27	19	187	26	29.1	27	22	293	19	29.9	28	19	264	11	30.1	29	23	210	25	26.0	33	33	900		
850	1.8	16	15	150	35	22	13	173	26	21	15	26	25	20	12	182	25	23	16	287	18	24	09	28	09	265	14	22	18	215	27	31	31	850					
800	59.7	12	08	152	28	58.6	16	14	173	21	55.9	17	09	59.1	14	02	192	24	59.5	19	05	290	18	60.3	20	02	260	13	60.5	20	03	222	27	53.9	29	29	800		
750	06	00	158	18	11	02	177	22	09	07	200	21	02	08	07	200	21	02	12	00	290	23	14	07	258	21	16	10	244	26	26	26	750						
700	01	05	146	16	02	175	21	02	175	21	02	175	21	02	175	21	02	175	21	02	175	21	02	175	21	02	175	21	02	175	21	02	175	21	02	175	21	700	
650	05	12	153	20	02	170	21	02	170	21	02	170	21	02	170	21	02	170	21	02	170	21	02	170	21	02	170	21	02	170	21	02	170	21	02	170	21	650	
600	09	17	167	31	130	02	168	21	130	02	168	21	130	02	168	21	130	02	131	08	13	276	27	132	10	22	255	30	133	02	11	281	37	131	02	11	281	37	600
550	16	24	165	36	20	155	16	25	155	16	25	155	16	25	155	16	25	155	16	17	24	257	18	18	34	270	30	133	02	11	281	37	131	02	11	281	37	550	
500	17	25	163	46	173	30	137	13	172	35	45	174	17	31	303	44	174	17	31	303	44	174	17	31	303	44	174	17	31	303	44	174	17	31	303	44	500		
450	34	44	170	56	223	37	59	306	39	221	51	225	39	49	225	39	49	225	39	49	225	39	49	225	39	49	225	39	49	225	39	49	225	39	49	225	39	450	
400	46	171	69	45	310	55	54	310	55	54	310	55	54	310	55	54	310	55	54	310	55	54	310	55	54	310	55	54	310	55	54	310	55	54	310	55	400		
350	59	171	69	45	310	55	54	310	55	54	310	55	54	310	55	54	310	55	54	310	55	54	310	55	54	310	55	54	310	55	54	310	55	54	310	55	350		
300	70	159	57	287	54	292	48	284	57	288	64	294	59	287	55	293	59	287	55	293	59	287	55	293	59	287	55	293	59	287	55	293	59	287	55	300			
250	52	169	38	23	374	53	227	22	370	67	373	67	264	27	373	67	264	27	373	67	264	27	373	67	264	27	373	67	264	27	373	67	264	27	250				
200	59	184	33	53	223	26	59	223	26	59	223	26	59	223	26	59	223	26	59	223	26	59	223	26	59	223	26	59	223	26	59	223	26	59	223	26	200		
170	59	177	33	53	223	26	59	223	26	59	223	26	59	223	26	59	223	26	59	223	26	59	223	26	59	223	26	59	223	26	59	223	26	59	223	26	170		
150	59	176	30	55	216	17	58	216	17	58	216	17	58	216	17	58	216	17	58	216	17	58	216	17	58	216	17	58	216	17	58	216	17	58	216	17	150		
130	60	206	22	52	198	25	59	198	25	59	198	25	59	198	25	59	198	25	59	198	25	59	198	25	59	198	25	59	198	25	59	198	25	59	198	25	130		
110	63	206	24	54	208	33	64	208	33	64	208	33	64	208	33	64	208	33	64	208	33	64	208	33	64	208	33	64	208	33	64	208	33	64	208	33	110		
100	63	193	27	525	54	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	100			
90	63	195	25	525	54	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	90			
80	65	214	16	525	54	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	80			
70	64	221	12	525	54	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	70			
60	64	221	12	525	54	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	518	66	60			
Inversion.				Inversion.				Isothermal.				Inversion.				Inversion.				Inversion.				Inversion.				Inversion.				Inversion.				Inversion.			
704 mb 00° - 688 mb 02°				450 mb 37° - 425 mb 35°				985 - 934 mb 32°				Surf mb 32° - 970 mb 36°				600 - 508 - 578 - 01°				1001 - 961 mb 33°				991 mb 31° - 986 mb 36°				997 mb 37° - 989 mb 40°				895 - 860 mb 32°				Isothermal.			
Isothermal.				785 - 771 mb 14°				365 - 334 - 54°				305 - 286 mb - 64°				305 - 286 mb - 64°				305 - 286 mb - 64°				305 - 286 mb - 64°				305 - 286 mb - 64°				305 - 286 mb - 64°				305 - 286 mb - 64°			
723 - 715 - 08°				482 - 470 - 34°				417 - 410 - 35°																															
Tropopause																																							

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

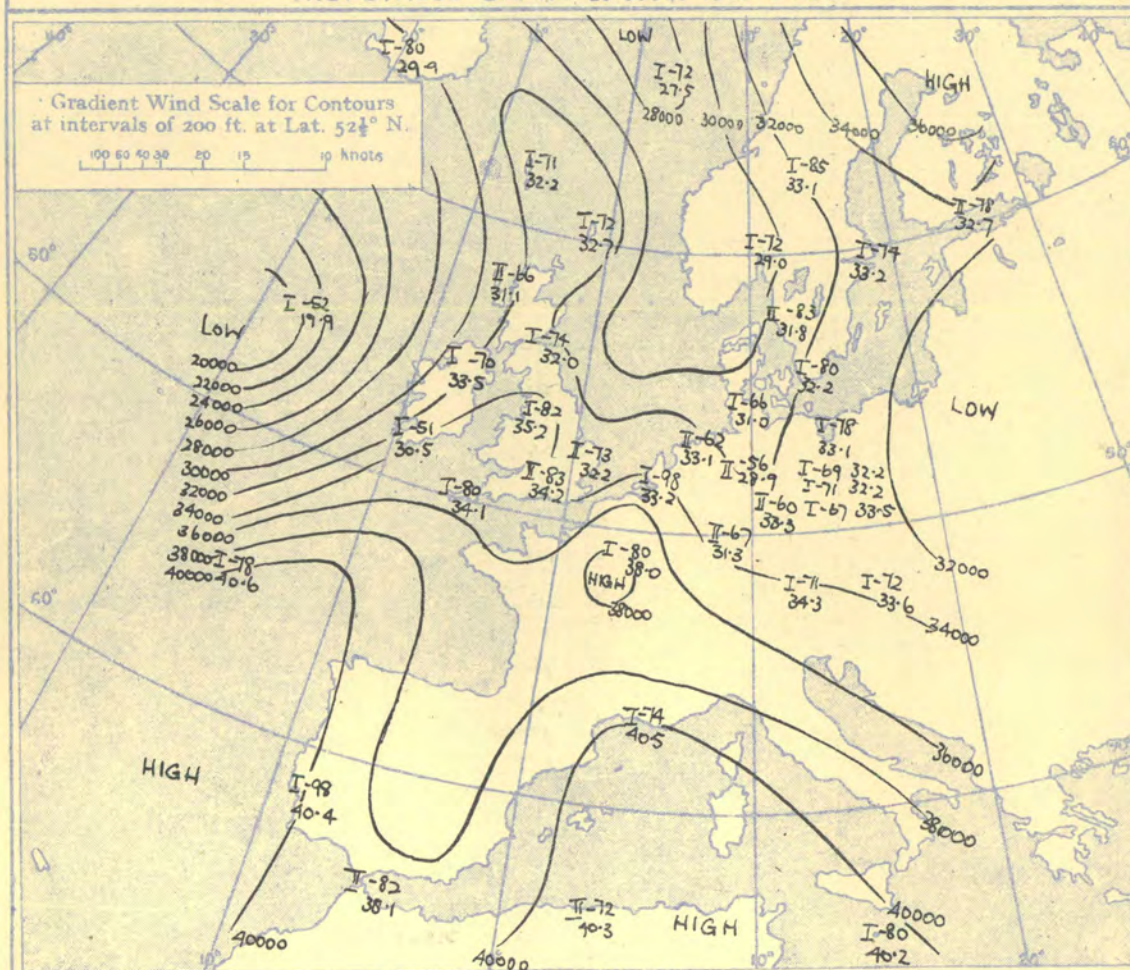
Wednesday 1st February 1950

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION						
Pressure	Time M.S.L.	1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		Time M.S.L.	Pressure									
		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	Surf	Freezing	Surf	Freezing													
Surf	1000	2.7	36	33	113	38	0.5	41	26	0.2	37	31		2.3	42	39	145	28	0.6	37	34	150	30	1.2	39	35	140	18	4.4	43	43	180	20	2.9	52	51	0.3	42	39	280	23	Surf		
950		3.3					-3.7			-17				-5.2					-2.6					0.7				-6					-2.3				-4.5		Surf					
900		27.2	26	36	130	48	24.2	38	23	26.1	31	25	150	35	23.1	40	37	173	40	25.1	33	32	183	54	28.6	33	33	195	50	27.7	38	38	208	60	26.4	43	42	33	36	275	37	950		
850			20	20	144	36		24	12		24	16	156	44		36	33	203	39		35	34	209	51		33	31	206	48		36	35	223	67		38	37	28	27	267	33	900		
800		57.3	13	13	148	32	54.8	24	17	56.5	22	18	159	38	54.3	33	30	205	41	56.2	34	30	220	47	59.5	28	27	215	48	58.8	31	30	237	59	57.7	33	31	54	3	24	22	256	30	850
750			07	07	155	31		21	16		18	16	169	38		28	25	205	40		28	28	220	42		25	23	231	48		29	28	235	51		28	26		18	16	246	37	750	
700			07	01	161	30	89.0	06	08		14	12	177	35	89.0	22	19	202	42	91.1	23	21	216	42	94.1	21	19	241	39	93.6	23	21	237	48	92.4	23	16		10	5	242	42	700	
650			00	15	164	33		03	03		10	05	186	37		15	12	202	47		17	16	228	47		15	11	225	36		19	16	235	49		3	3	233	53	650				
600		129	07	28	169	40	128	08	03	For	129	08	00	196	38	128	07	03	207	49	130	11	08	228	48	133	08	03	231	37	133	12	08	235	46	132	10	06		3	3	217	47	600
550		-10	-34	196	28	-02	-13	winds			00	09	209	34		03	-15	208	62		03	-01	228	47		01	-06	233	42		04	-01	240	51		02	-1		-11	-16	205	54		

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

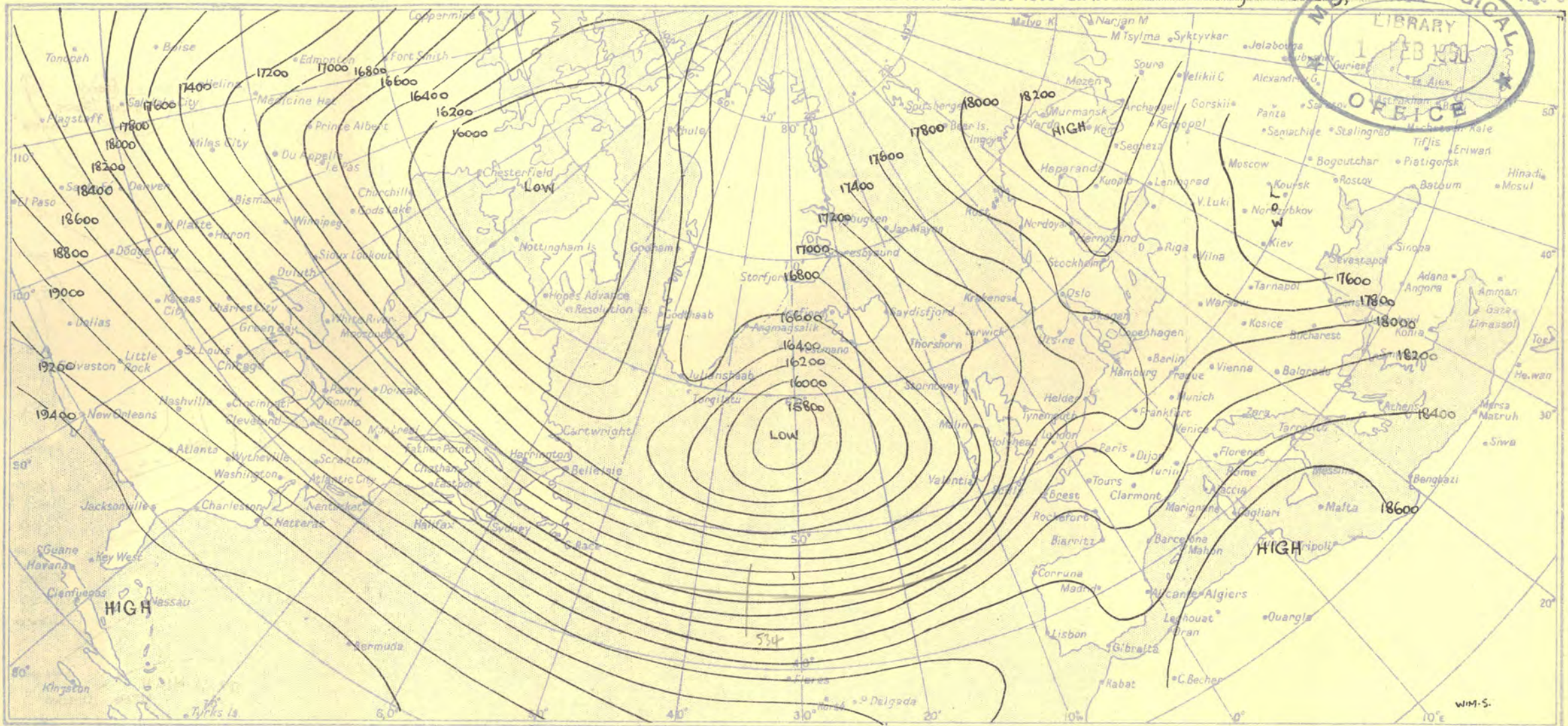


NOTES ON THE AEROLOGICAL SITUATION.

The warm ridge over Ireland progressed to Norway and eliminated the degenerating cold trough over the North Sea. A further surge of warm air in association with low LT took place to the southwest of the British Isles. This new development moved rapidly to Southern Ireland and a cold trough formed over Scotland. Cold air continued to flood the Western Atlantic.

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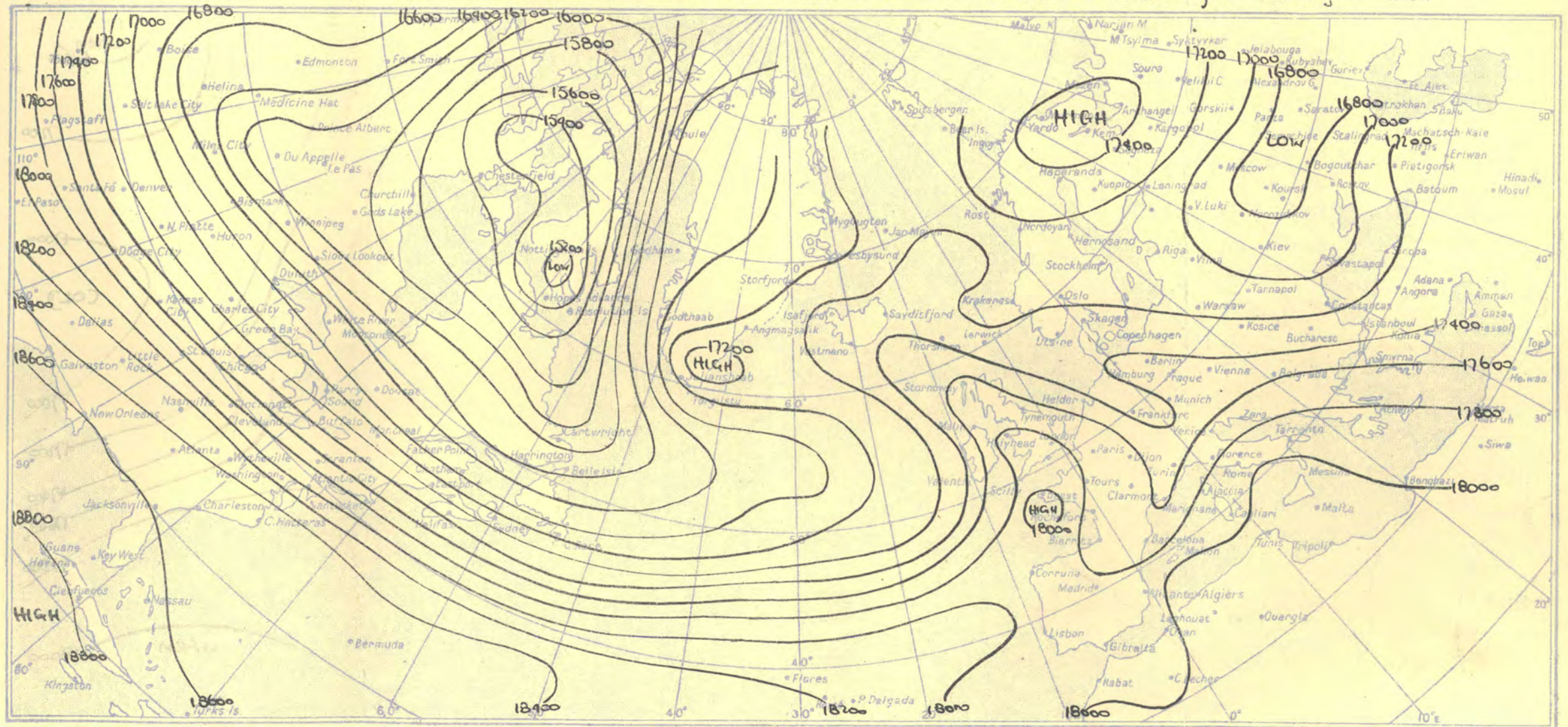
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



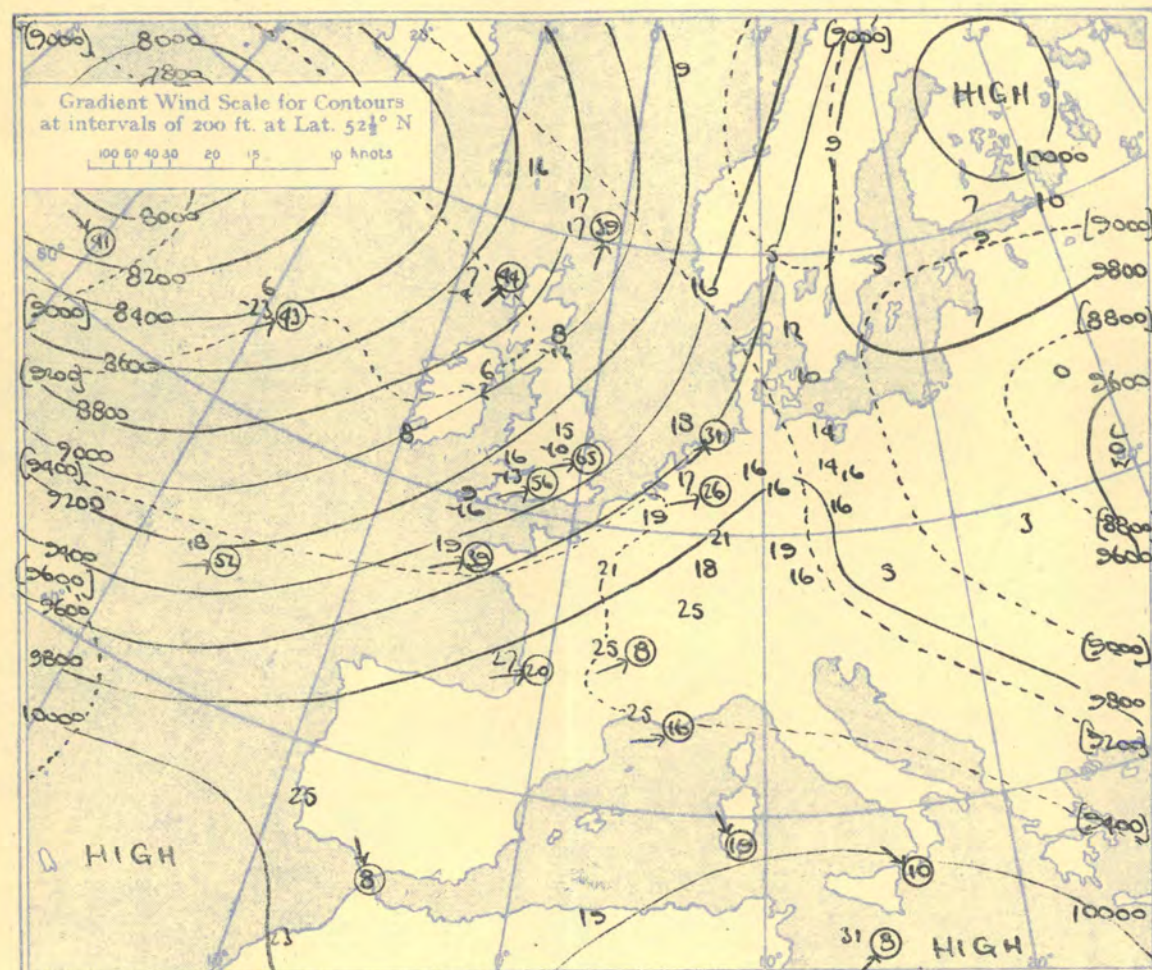
ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T.

Wednesday 1st February, 1950.

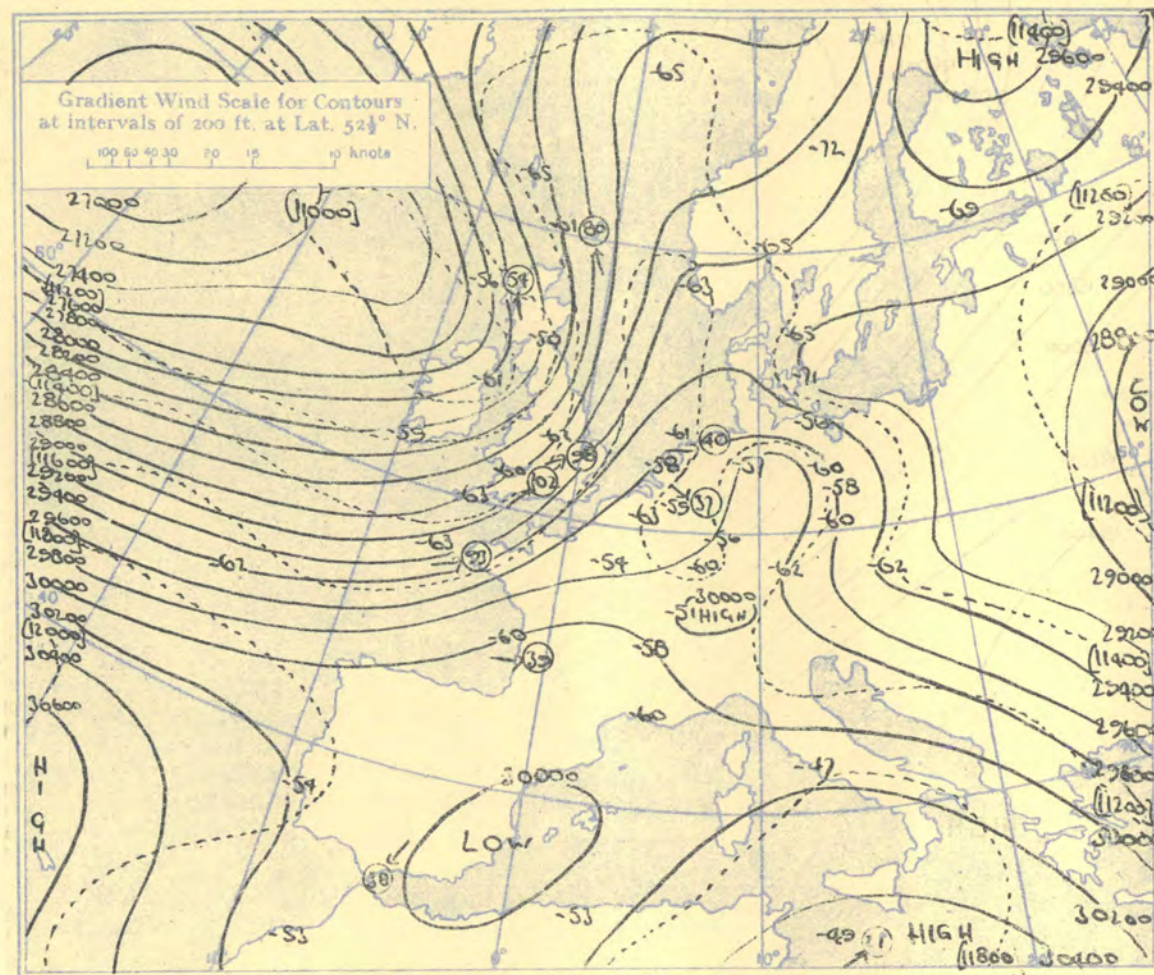
1950.



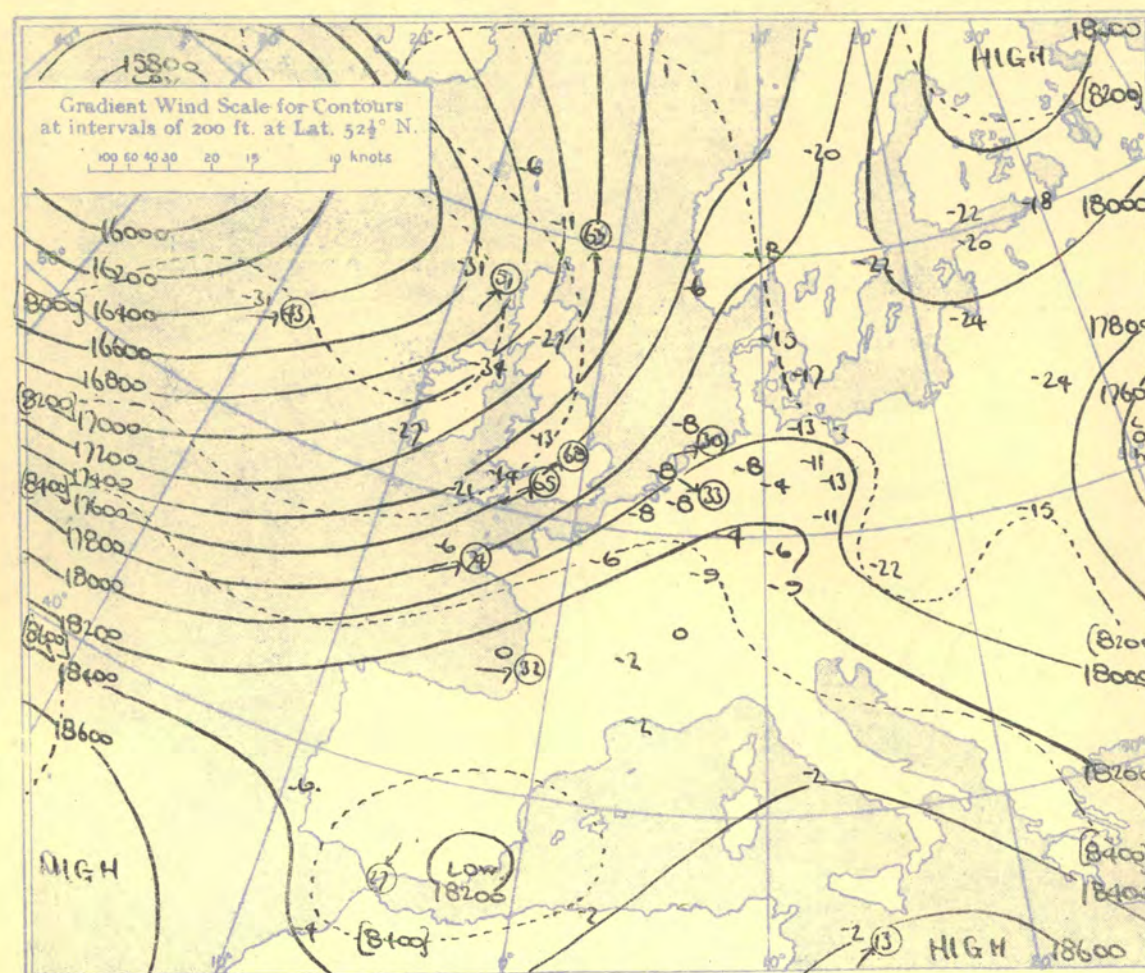
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb. and 300 mb., levels at about 0300 G.M.T.



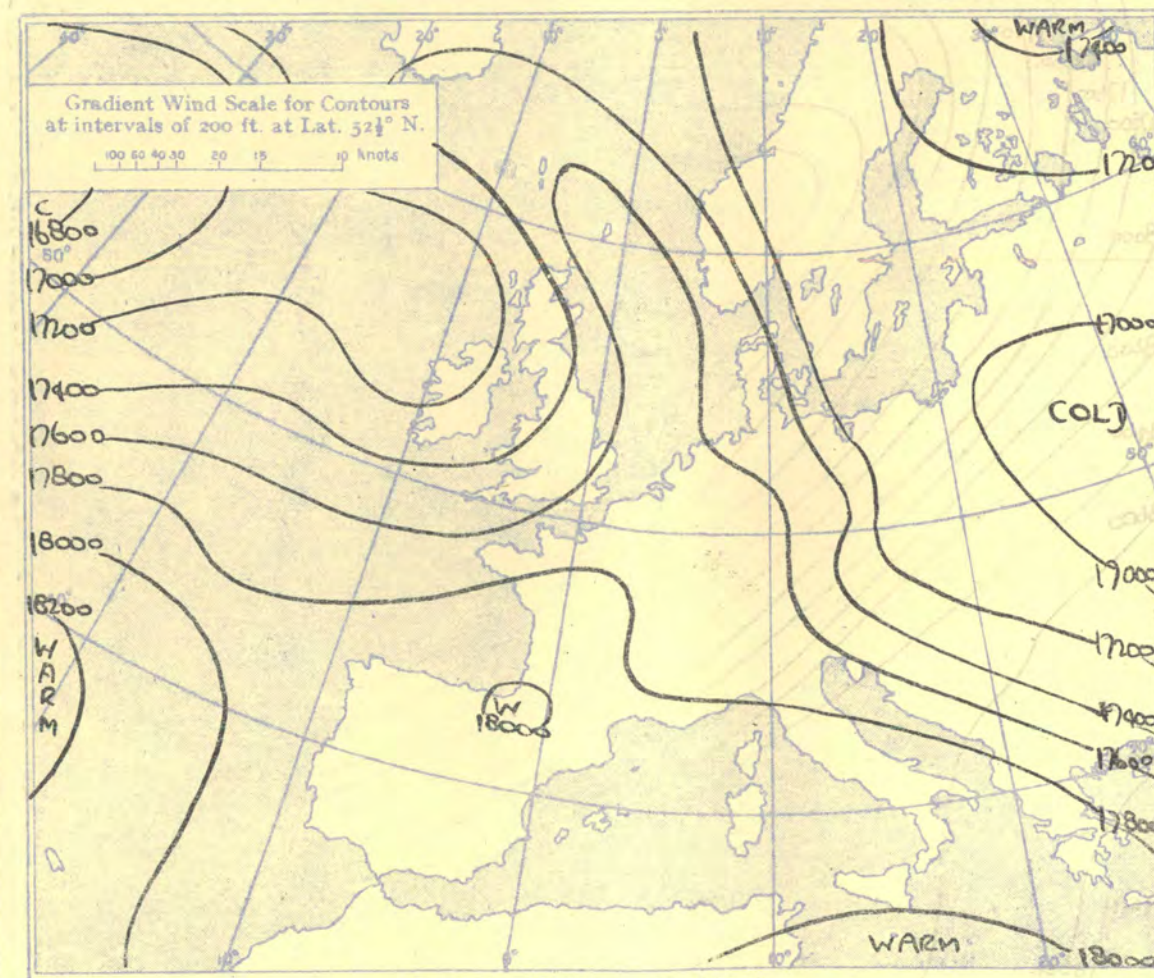
The continuous lines are contour lines of the 700 mb. surface. The dotted lines are isopleths of the thickness of the layer 1000-700 mb.



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.



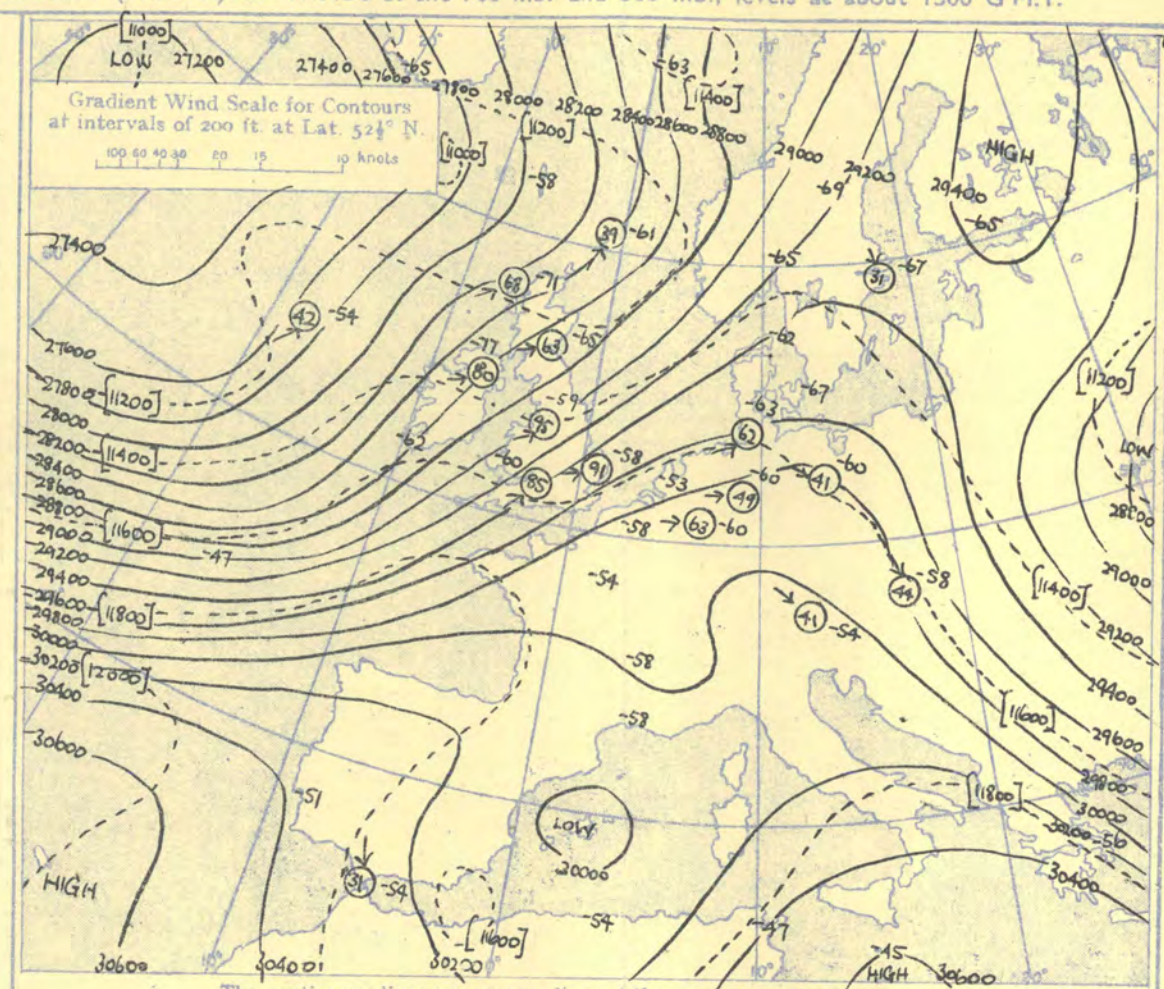
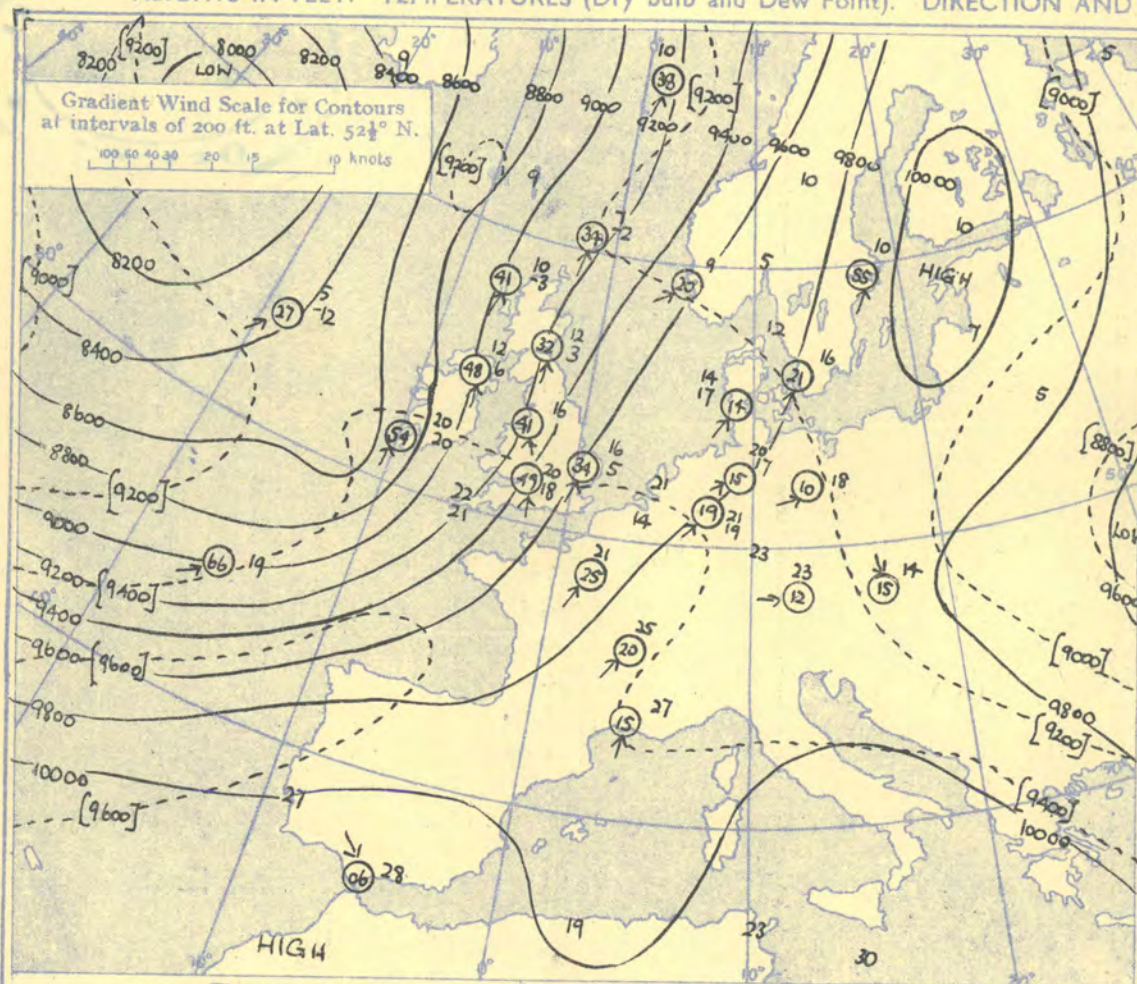
Isopleths of Thickness 500-1000mb

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

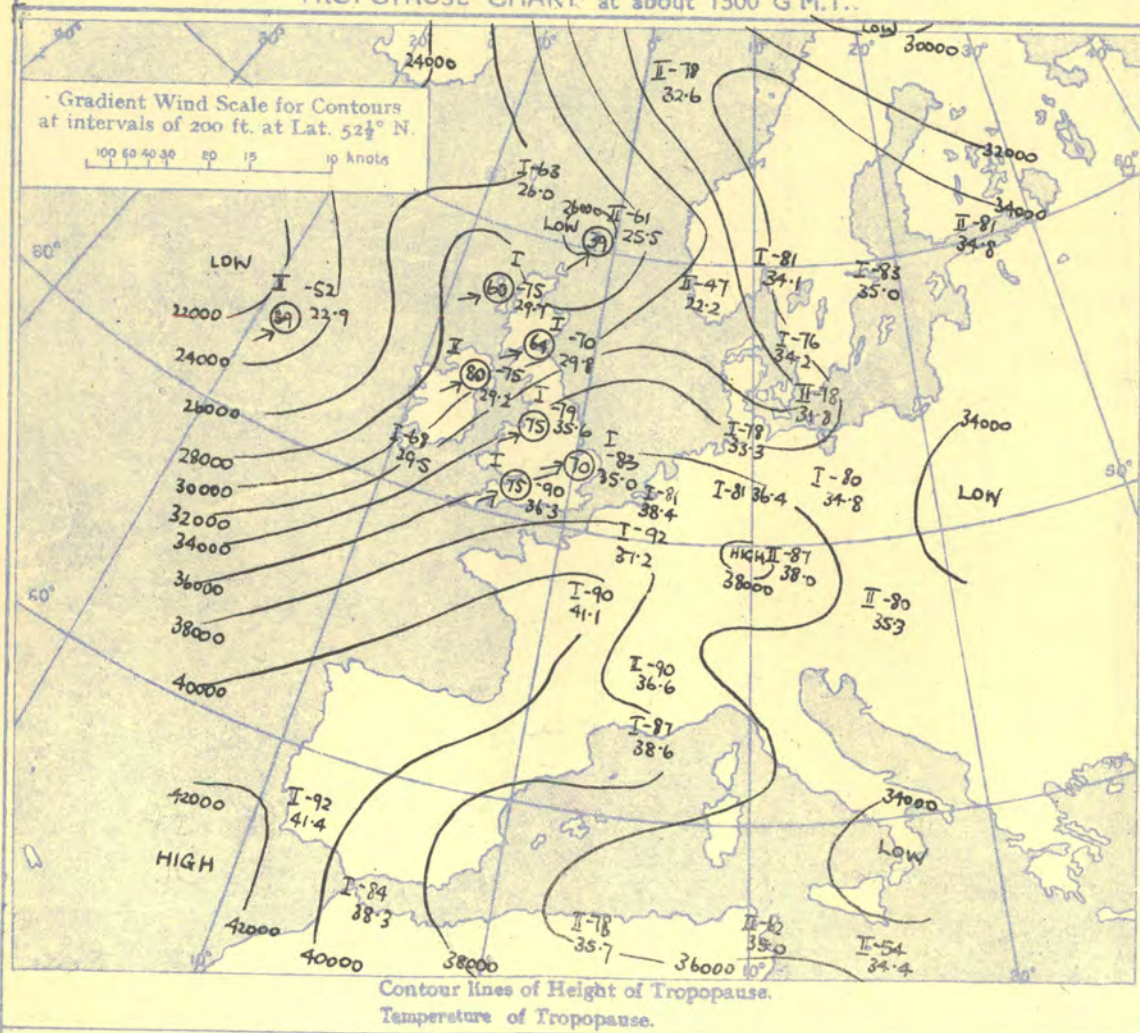
Thursday 2nd February, 1950

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)																								Thursday 2nd February 1950																
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION		
Pressure	Time	1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		Time		
	M.S.L.	998.1		mb		990.8		mb		1000.0		mb		991.2		mb		999.1		mb		1005.9		mb		1001.6		mb		989.7		mb		969.7		mb		M.S.L.		
	Surf	988.0		mb		989.0		mb		999.1		mb		982.7		mb		997.1		mb		1001.4		mb		985.6		mb		979.3		mb		968.1		mb		Surf		
	Freezing	302.		mb		300.		mb		871		mb		877		mb		867		mb		830		mb		827		mb		800.		mb		810		mb		Freezing		
Pressure		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Pressure
mb		ft./100		°F.		°F.		Dir. Vel.		ft./100		°F.		°F.		Dir. Vel.		ft./100		°F.		°F.		Dir. Vel.		ft./100		°F.		°F.		Dir. Vel.		ft./100		°F.		°F.		mb
Surf		2.7		43		37		157		35		0.5		44		36		180		25		0.2		44		37		110		10		2.3		46		39		Surf		
1000		-0.6								-2.5								-2.4								-0.2										-0.2		1000		
950				40		36		186		47				39		32		176		36				41		36										47		950		
900		27.5		32		27		185		45		25.6		32		33		179		33		28.1		35		29		176		26		25.8		35		31		900		
850				26		14		155		38				28		20		186		43				30		25										30		850		
800		58.0		21		10		200		37		56.3		23		10		189		42		58.9		24		08		182		38		56.7		25		26		800		
750				13		04		205		33				17		04		189		40				19		08		188		36				19		750				
700		91.6		07		02		208		34		90.3		10		3		191		41		92.9		12		03		197		32		90.8		12		700				
650				02		14		208		39				02		10		192		41				04		03		199		35				06		650				
600		12.9		-11		-21		204		42		12.8		-7		-19		193		39		131		-05		-10		203		42		12.9		-02		-09		600		
550				-20		-30		204		51				-16		-28		209		30				-15		-22		199		43				-10		550				
500		172		-29		80		203		50		171		-27		-38		224		42		174		-23		-28		217		49		173		-20		500				
450				-42				201		50				-37		-46		228		61				-34		-40		233		47				-30		450				
400		222		-52				205		43		222		-49				229		77		225		-44				248		66		224		-43		400				
350				-59				216		39				-62				232		80				-54				257		82				-57		350				
300		283		-61				200		39		283		-71				235		68		287		-65				246		53		286		-72		300				
250				-56				200		42				-68				212		54				-67				229		66				-76		250				
200		370		-60				198		37		367		-65				206		45		372		-63				230		49		369		-74		200				
170				-57				196		33																														

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

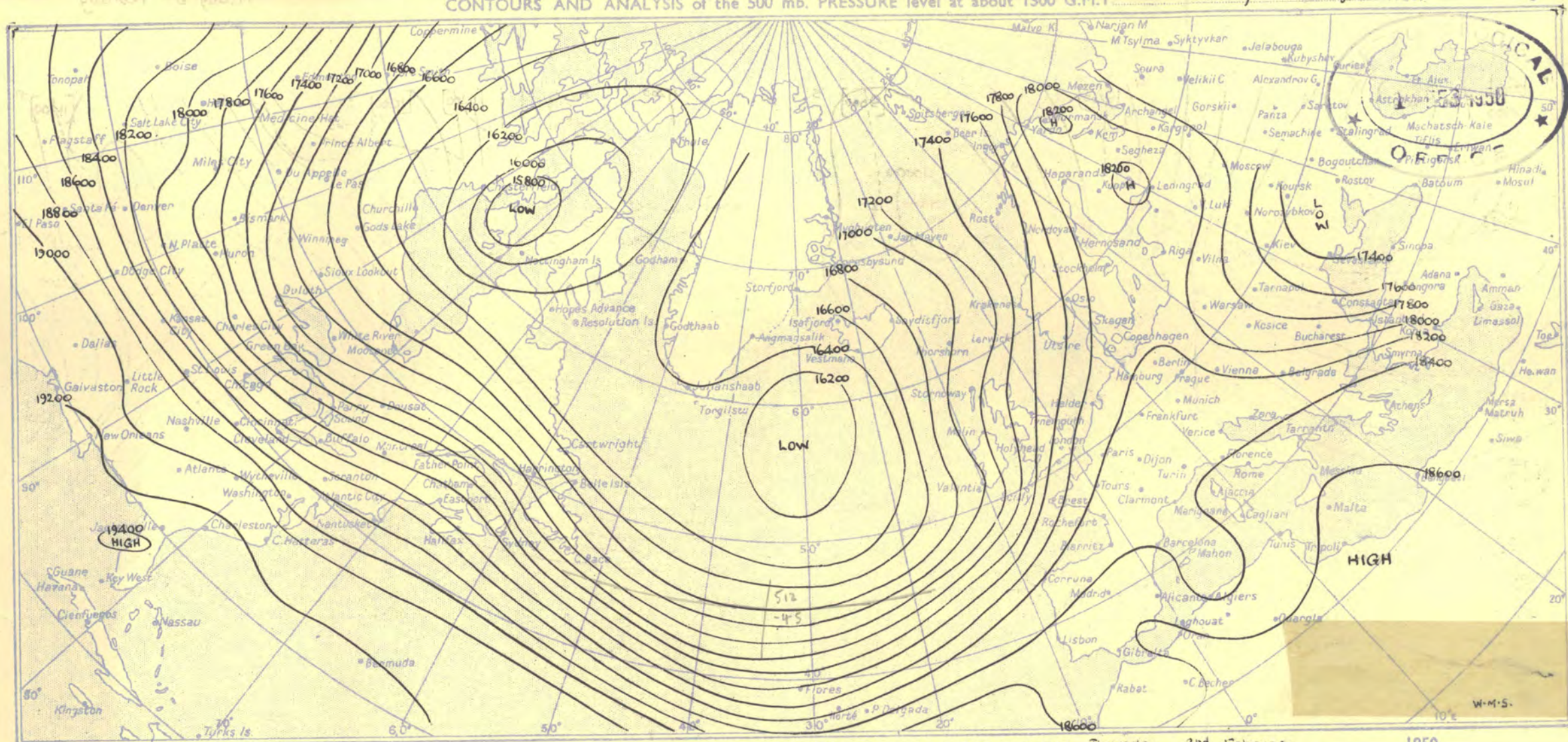


NOTES ON THE AEROLOGICAL SITUATION.

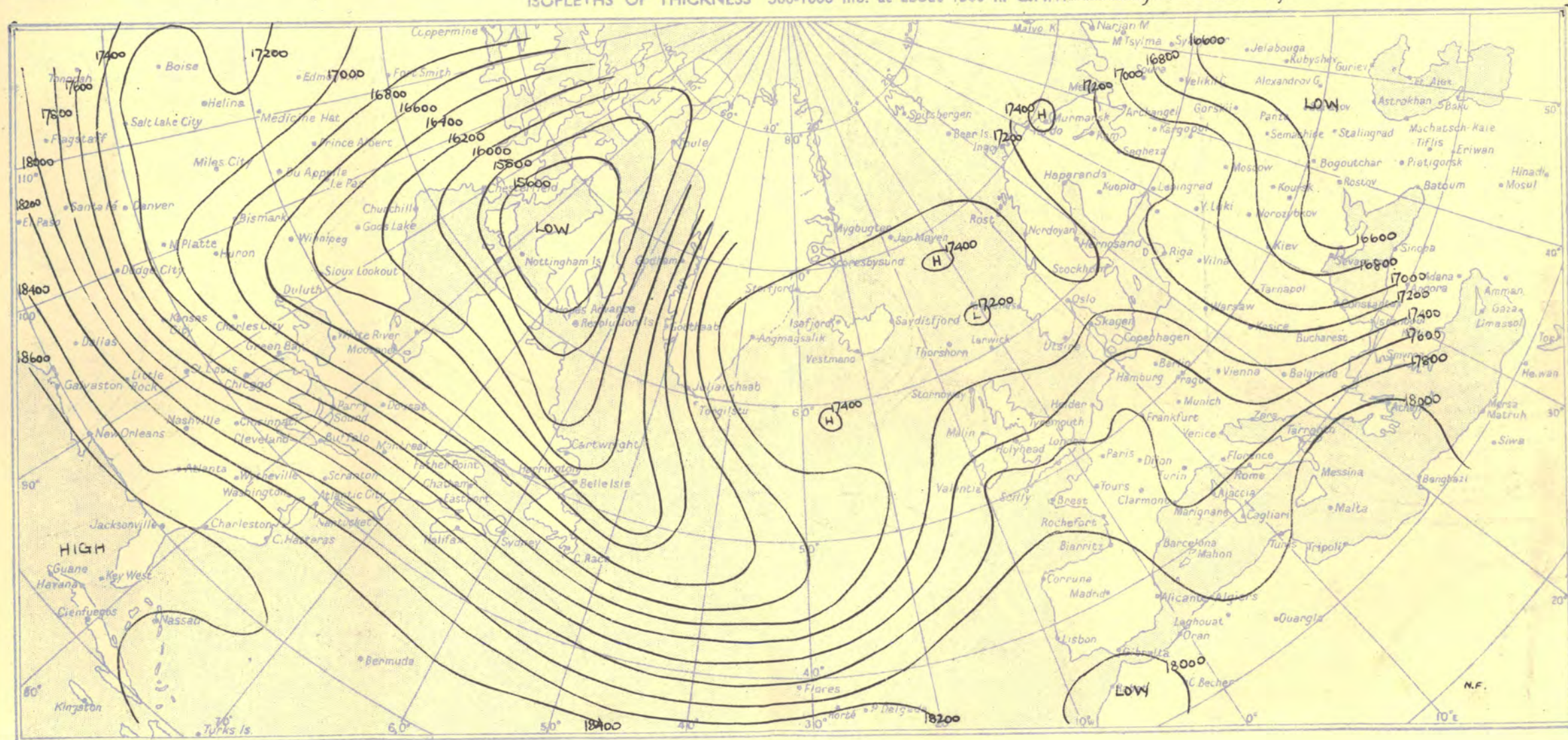
The warm ridge approaching Southern Ireland moved rapidly north-northeast across Scotland to reinforce the preceding warm ridge which remained with its axis across Europe and Southern Norway to Iceland. Some warming of the very cold air flooding the Atlantic took place.

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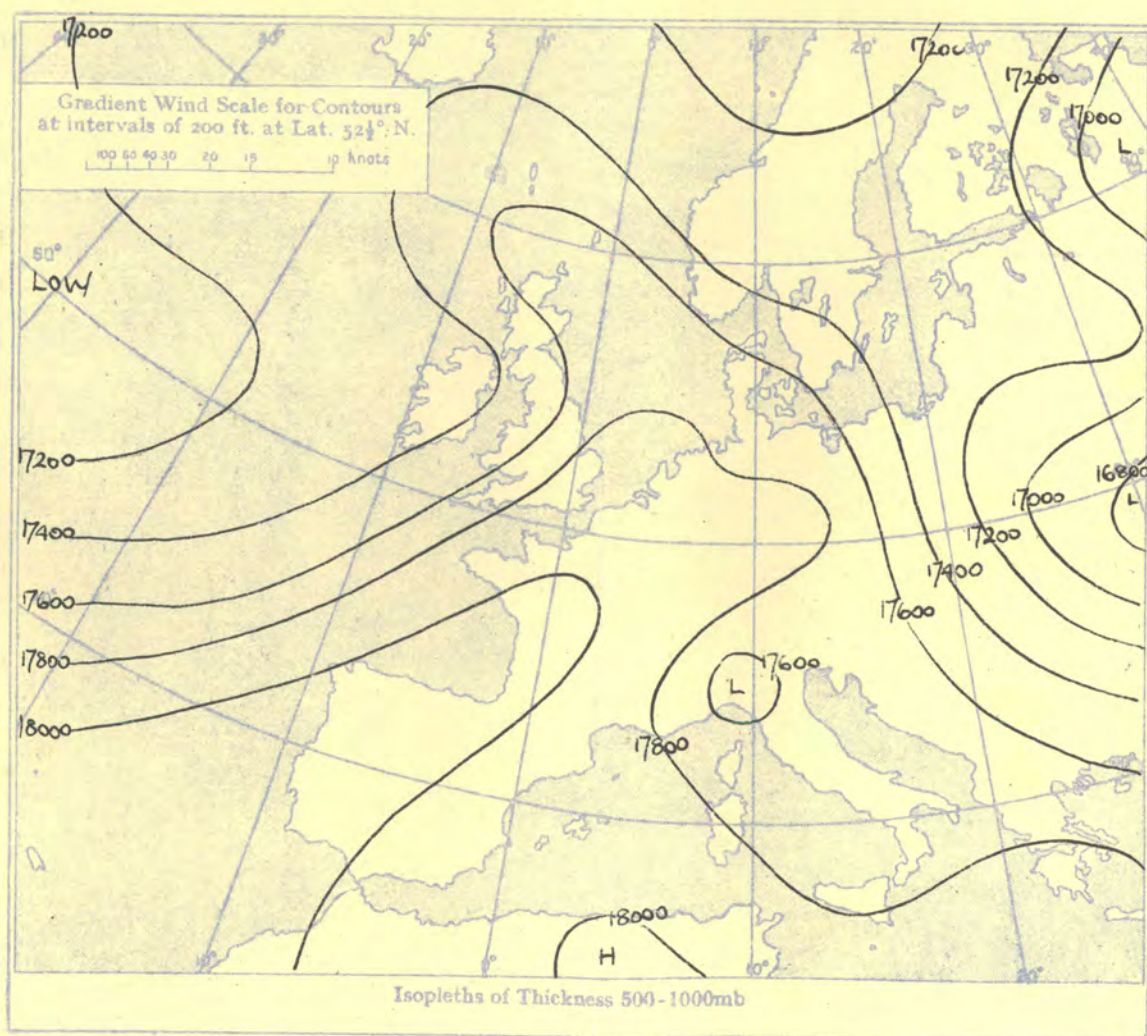
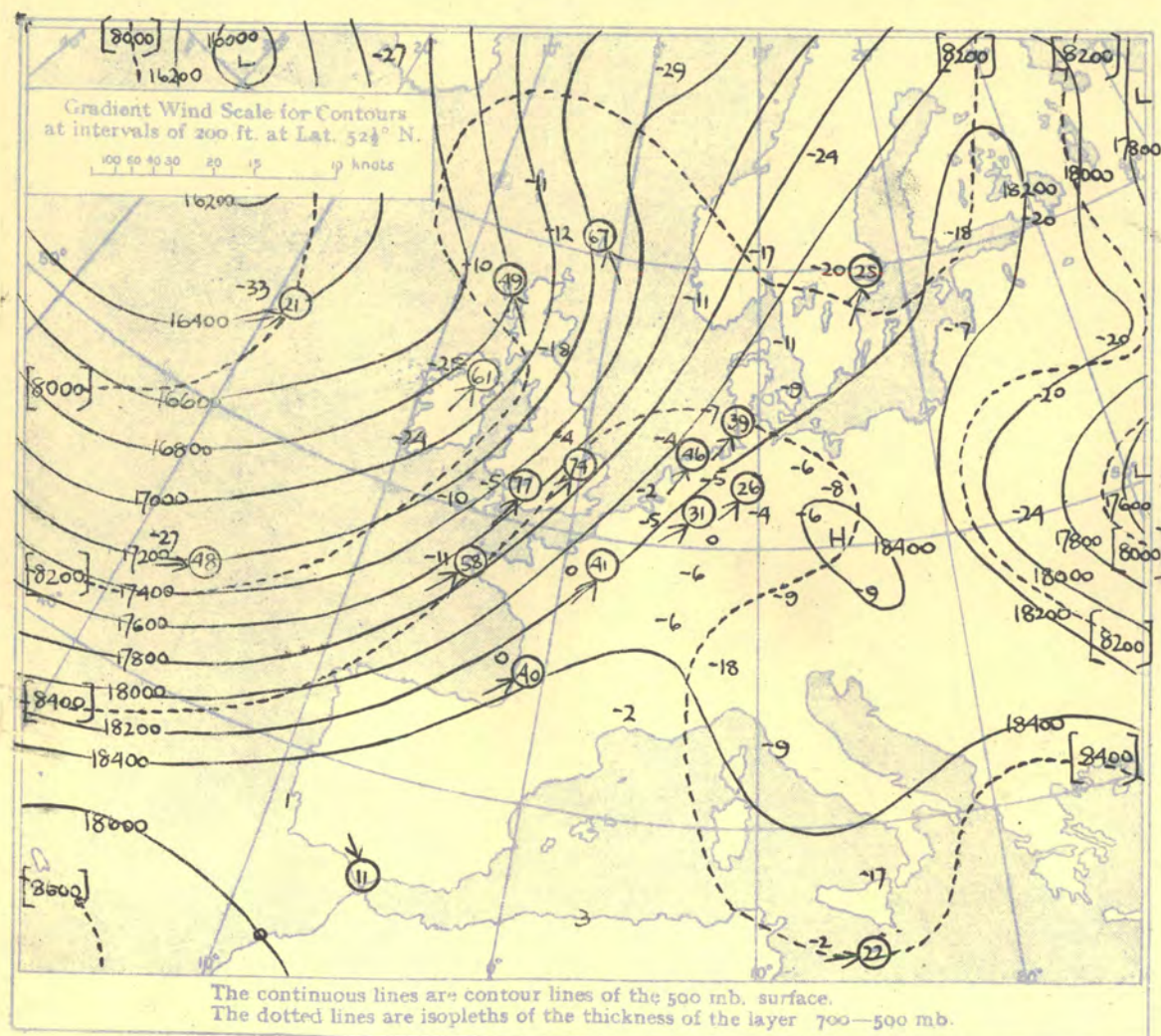
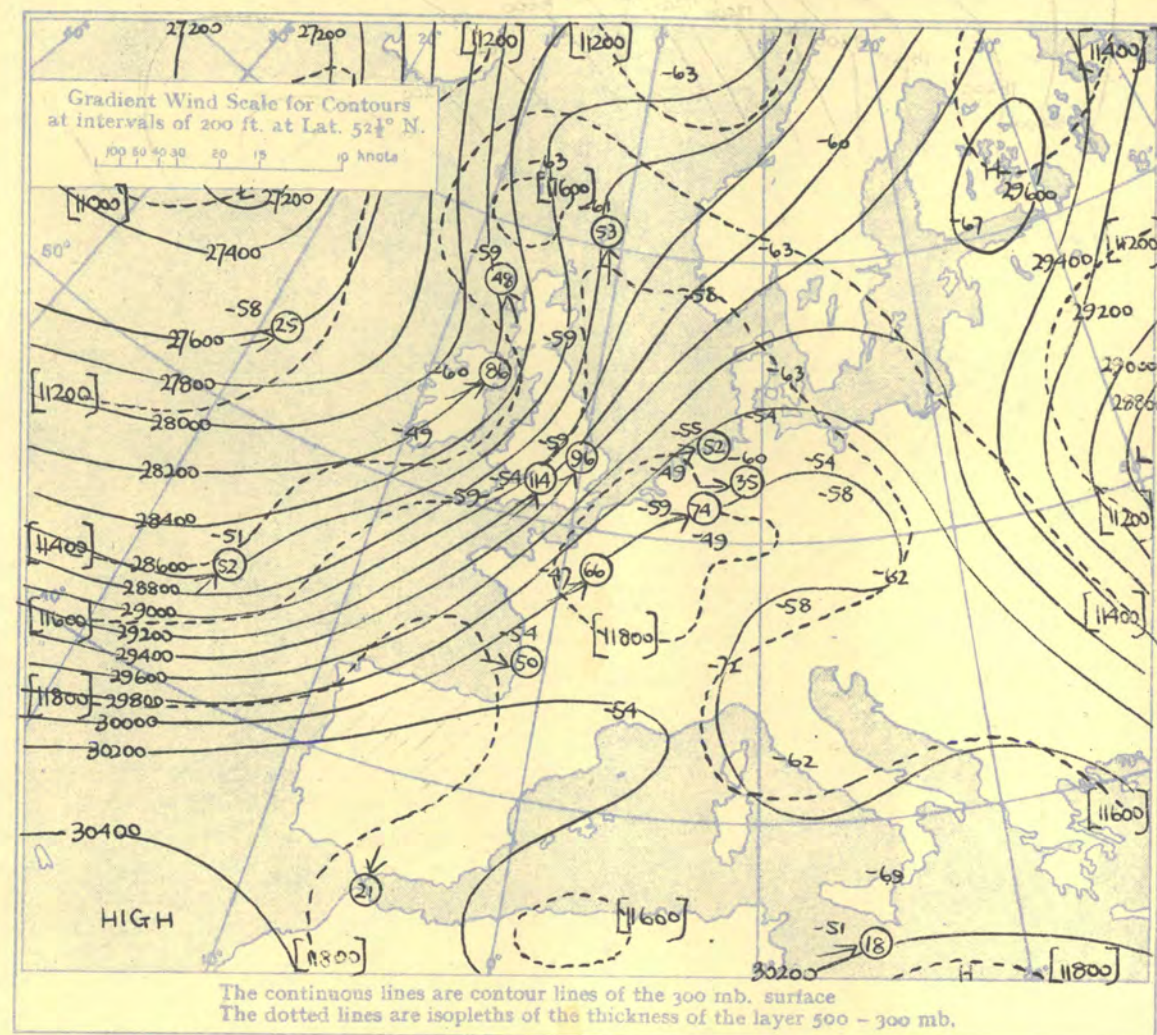
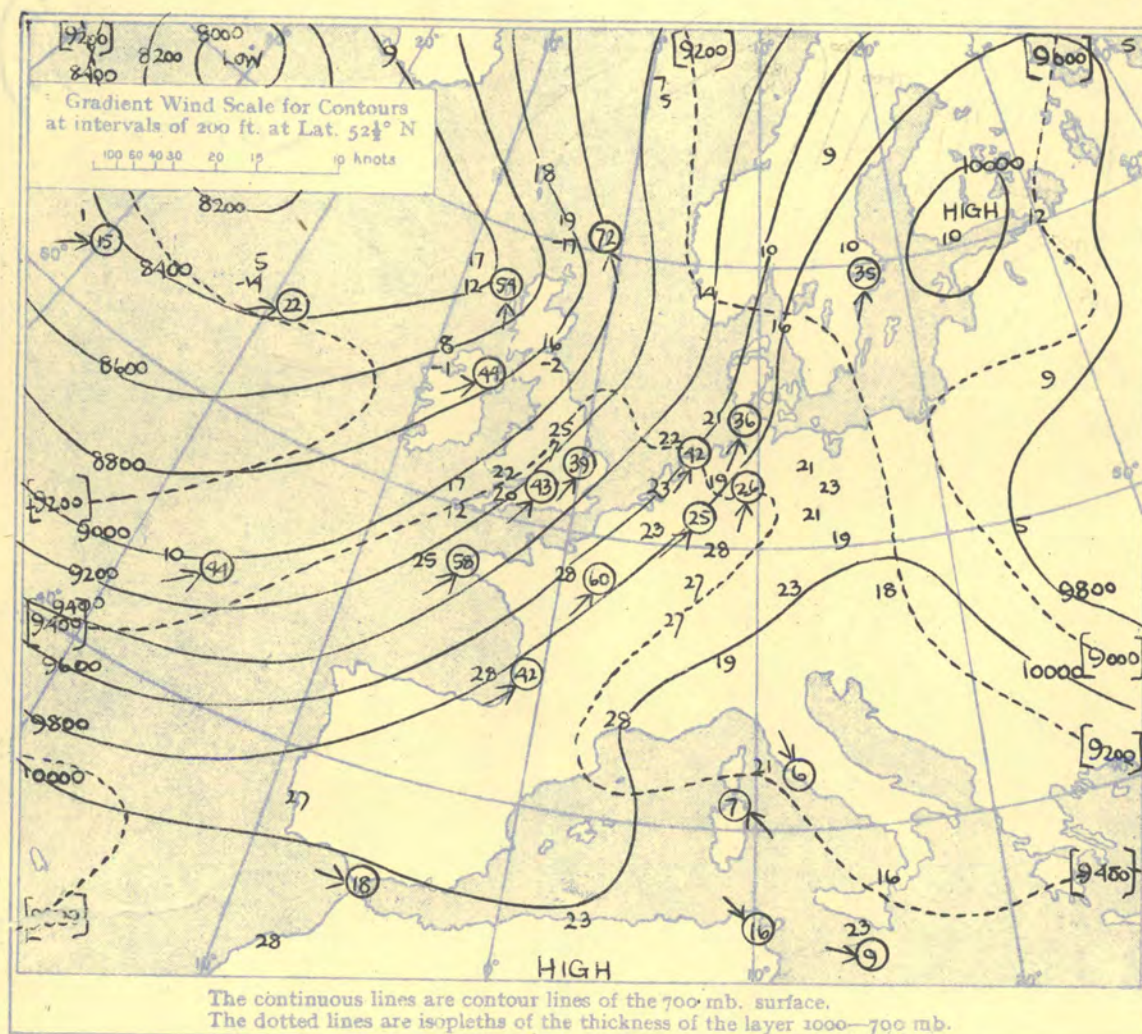
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Thursday 2nd February 1950.



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 0300 G.M.T.



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

	48°2N 20°3W	49°5N 14°7W	49°3N 17°0W	50°5N 12°2W	51°2N 00°4E								
Pressure { Time M.S.L. Surf Freezing	1230h. 2/2.	1330h. 2/2.	1300h. 2/2.	1500h. 2/2.	1400h. 2/2.					Time M.S.L. Surf Freezing			
	980 mb	976 mb	993 mb	1008 mb	1006 mb	mb		mb	mb	mb			
	976 mb	972 mb	989 mb	1005 mb	995 mb	mb		mb	mb	mb			
	930 mb	870 mb	780 mb	730 mb	770 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	Pressure mb
Surf		30 34	46 36	55 47	57 55	45 44							Surf
1000	-55		-67		21		2-4		17				1000
950		35 30	43 35	49 40	51 51	45			45				950
900	22-3	29 27	21 6	43 39	49 47	41 41			41 41				900
850		23 23	30 27	41 34	43	36 36			36 36				850
800	52-7	17	52-4	23	34 34	41			35 32				800
750		11	17	28 28	34	29							750
700	86-3	7	86-3	9	92-9	20	98-2	28	96-3	24			700
650		-1	3	13	16	16				16			650
600	124-12		124	-6	05	11				11			600
550		-22	-20	04	09	06				06			550
500	166-31		167-27		177-02		183	02	181	03			500
450										11			450
400										-26			400
350										-41			350
300									298-56				300
250													250
200													200
170													170
	Cloud.	Cloud.	Cloud.	Cloud.	Cloud.								
	7/8 Cu	6/8 Cu.	5/8 Sc	8/8 As	8/8 Ns								
	950-550mb	970-930mb	970-920mb	970-490mb	988-TOP								
	2/8 Cs	3/8 Cs	7/8 As	7/8 Sc	Inversion.								
	940-NIR.	940-NIR.	800-750mb	960-940mb	995mb 46°								
			6/8 As		977.. 49°								
			650-640mb.		/ Isothermal.								
					960-943mb								
					45°								

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]

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

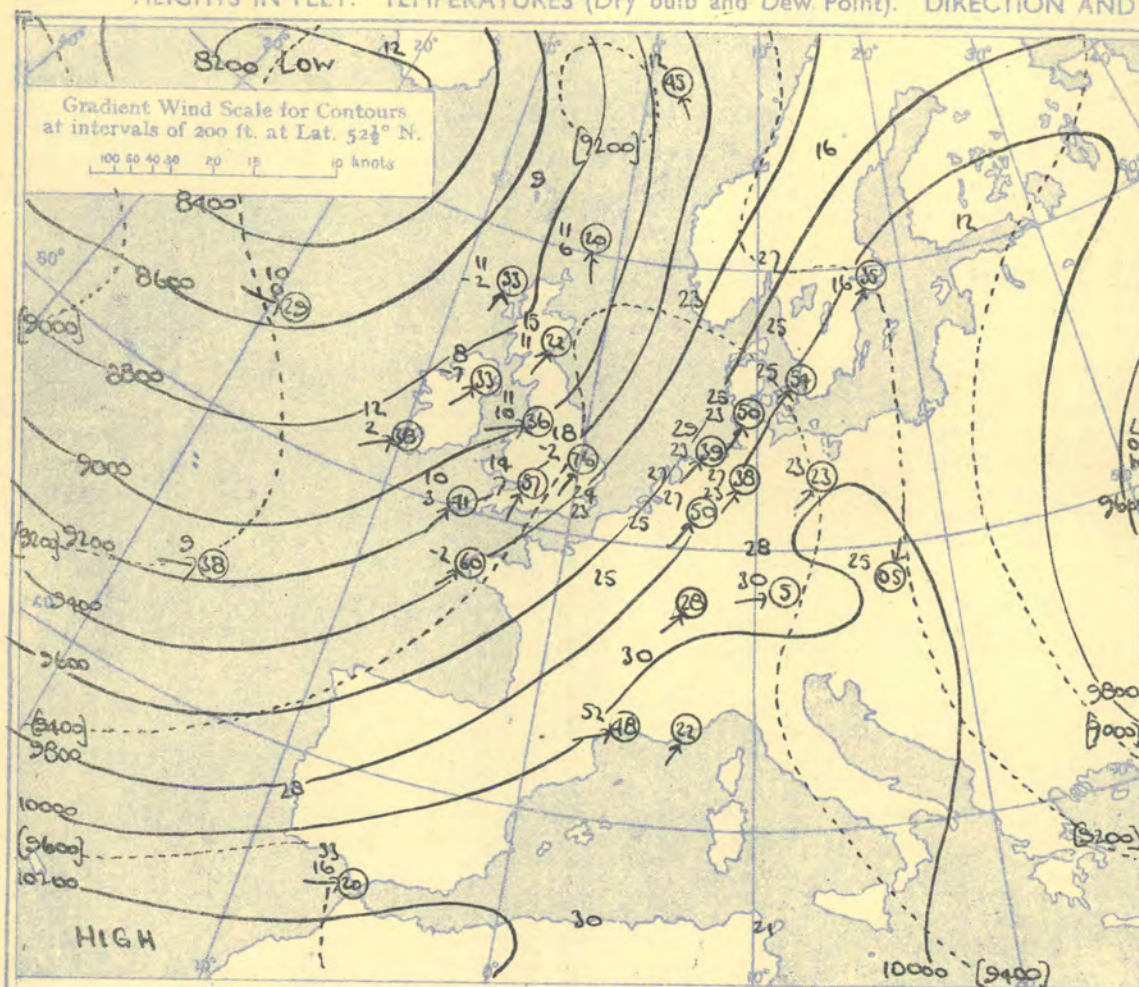
Friday 3rd February, 1950

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION	
Pressure mb	Time M.S.L. Surf Freezing	0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		Time M.S.L. Surf Freezing					
		988.9		mb		968.9		mb		980.3		mb		982.5		mb		973.9		mb		975.4		mb		993.6		mb		988.4		mb							
		979		mb		967		mb		979.5		mb		973.9		mb		970.8		mb		977.8		mb		997.8		mb		981		mb							
		889		mb		858		mb		863		mb		898		mb		76.4		mb		821		mb		825		mb		870		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	43	39	101 40	00.5	45	39	135 25	00.2	45	43		02.3	40	36	185 18					01.2	48	48	160 17	4.4	47	46	200 20	02.9	50	47		00.3	41	37	Surf			
1000	-3.1				-0.8				-5.4				-4.7								-1.3				-1.7				-3.2				-5.2			1000			
950		39	35			43	37	160 49		44	40			38	33	190 24						45	42	195 37		45	44	200 36		46	43			39	34	950			
900	25.1	33	30		19.8	37	30	164 52	22.9	37	33		23.3	32	28	223 28					27.1	40	33	211 45	26.7	41	38	201 41	25.4	41	38		22.8	34	30	900			
850		28	27			31	31	168 58		30	28			27	22	223 33						39	30	212 43		35	33	205 42		35	32		28	25		850			
800	55.7	24	21		50.7	25	25	172 65	53.8	28	22		53.8	21	13	219 37					58.5	34	27	209 41	57.9	30	29	208 36	56.5	29	26		53.5	21	19	800			
750		23	20			21	20	177 57		21	04			15	04	215 43						31	08	212 38		25	24	213 30		23	15			17	15	750			
700	90.0	19	17	For	84.9	17	12	172 54	88.1	16	02		87.7	08	01	213 44						25	07	232 39	92.5	22	20	213 43	90.8	17	12		87.4	10	01	700			
650		12	10			10	04	165 48		08	10			16	06	232 46						16	06	232 46		17	15	208 63		12	08			01	19	650			
600	129	04	01	winds	124	05	03	163 46	126	01	17		126	06	23	211 45						10	06	221 54	132	11	08	211 69	130	06	02		125	07	20	600			
550		03	08			01	13	157 45		10	23			17	28	207 51						03	03	219 63		04	01	214 73		01	05			14	21	550			
500	173	12	18	see	168	10	22	154 49	170	18	35			169	25	32	209 61						178	04	13	224 74	178	05	09	216 77	174	10	14		168	24	33	500	
450		22	28			18	40	151 46		18	40				32	44	221 90							14	26	222 78		16	21	217 79		20	27			34	44	450	
400	225	33	39	page	221	30	54	151 45	222	31	55		220	42		225 112						231	24	35	220 84	230	28	34	220 87	227	30	37		219	45			400	
350		44				46		150 59		45				52		211 106							37	47	226 85		40	46	217 102		44				59			350	
300	289	61		5.	284	59		154 48	286	59			282	60		224 86						295	54		227 96	294	54		219 114	290	59			281	49			300	
250		80				65		162 55		66				63		224 70							71			238 102		73		225 126		71				53		250	
200	372	69			370	56		196 48	372	55			368	60		231 63						379	83		241 84	378	80		238 80	375	67			370	51			200	
170		69				57		206 44		60				59									83			232 60		73		241 65		65				55		170	
150		69				58		206 41		64				61									79			226 51		71		210 46		66				52		150	
130		62				58		206 39		68				61									74			232 47		71		210 33	(133) mb	66				54		130	
110		66				58		207 40		61				63															215 25								110		
100	517	69			519	55		202 36	519	53			514	66																							100		
90		64				53				53				60																							90		
80		64				53				53				61																							80		
70		64				53				53				61																							70		
60		64				53				53				61																							60		
Isothermal		788-750mb. 23°		Isothermal		722-703mb. 18°		508-498. -10°		Inversion		488mb. -20°		469. -14°		Isothermal		980-956mb. 45°		834-800. 28°		Inversion		900mb. 40°		880. 42°		Isothermal		811-800mb. 34°									
Tropopause		I 239mb. -84°		I 315mb. -62°		I 229mb. -61°		I 342mb. -62°				II 200mb. -88°		II 230mb. -80°		II 276mb. -58°		II 350mb. -59°		Tropopause																			
STATION		LERWICK		STORNOWAY		LEUCHARS		ALDERGROVE		LIVERPOOL		DOWNHAM MARKET		LARKHILL		CAMBORNE		VALENTIA		STATION																			
Pressure mb	Time M.S.L. Surf Freezing	0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		Time M.S.L. Surf Freezing					
		987.0		mb		979.7		mb		982.5		mb		986.0		mb		992.7		mb		987.6		mb		987.6		mb		977.1		mb							
		977.2		mb		977.8		mb		974		mb		984		mb		988.2		mb		978.6		mb		978.6		mb		977.1		mb							
		868		mb		887		mb		880		mb		838		mb		790		mb		783		mb		852		mb		852		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	44	39	157 27	00.5	42	38		02.3	40	36	200 10	00.6	46	41	165 15					01.2	49	47		4.4	50	47		02.9	44	43				Surf				
1000	-3.5				-0.5				-4.6				-3.8								-0.2				-2.8				-3.3				-4.1			1000			
950		43	39	186 39		43	37			38	34	227 18		42	38	172 25						45	43	178 74		48	47			41	40			41	40	950			
900	24.8	35	34	182 35	22.7	35	31		23.3	34	28	232 18	24.5	38	35	175 27					26.5	40	38	196 54	25.8	43	42		25.0	36	35			36	35	900			
850		30	27	189 35		27	24			29	23	224 20		33	31	176 17						37	35	209 67		39	38			32	31			32	31	850			
800	55.6	27	19	191 35	53.4	21	19	For	54.1	23	15	224 22	55.5	27	26	188 13																							

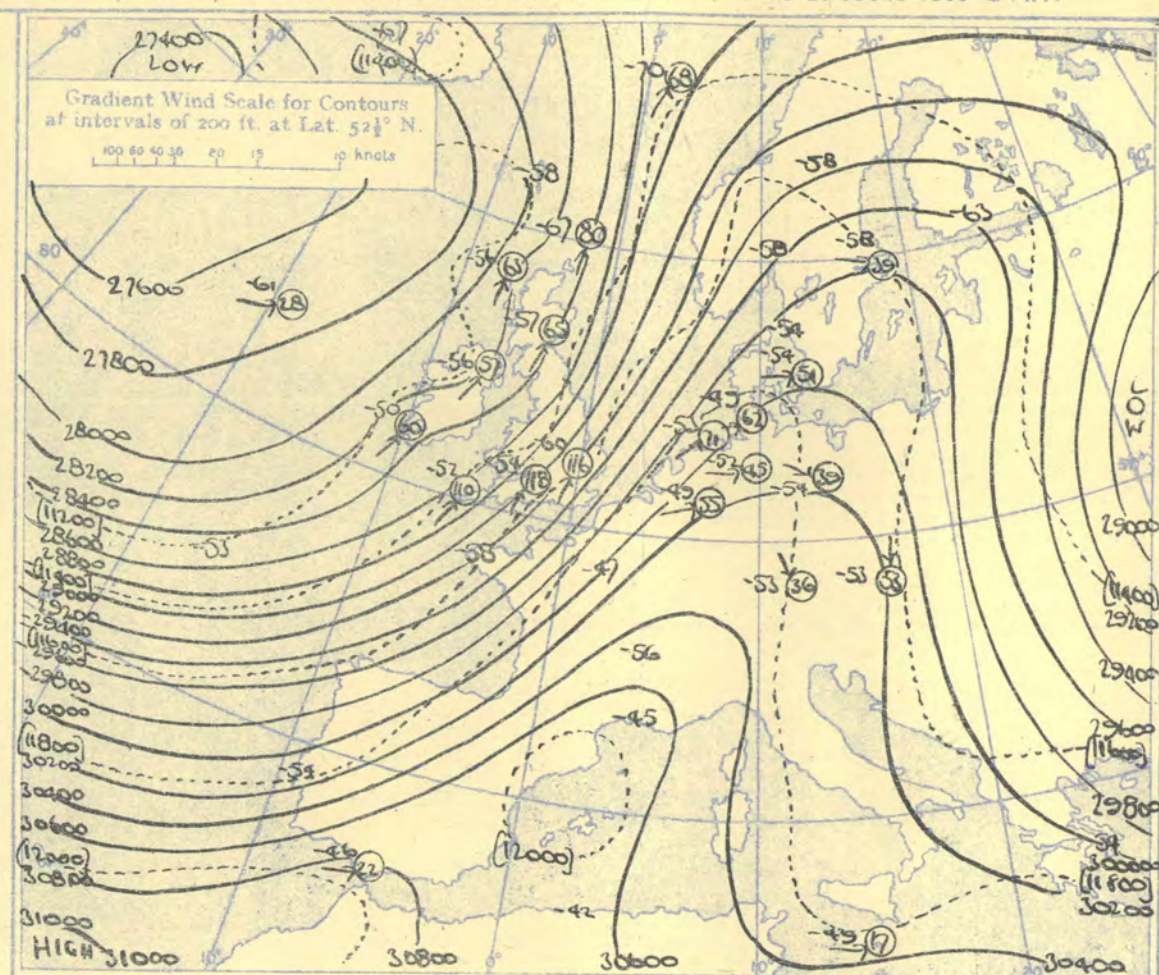
Friday 3rd February, 1950

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION										
Time M.S.L. Surf Freezing	1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		Time M.S.L. Surf Freezing														
	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											
Surf	02.7	45	44	146	18	00.5	43	39	180	12	00.2	44	42	240	21	02.3	43	35	205	12	00.6	44	37	210	15	01.2	52	46	205	23	04.4	48	44	240	25	02.9	48	38	203	18	00.3	45	37	200	21	Surf	
1000	-3.7					-0.5					-4.9					-3.1					-3.1					-1.4								-1.5				-3.1					1000				
950		42	42	165	30		41	37	179	36		41	38	257	25		40	33	238	18		39	34	228	27		48	40				44	42	222	37		43	31	226	39		43	32	210	34	950	
900	24.5	35	35	158	33	22.9	36	29	204	31	23.4	36	32	261	25	24.3	34	26	245	21	25.0	34	31	243	32	26.9	42	35				37	34	221	48	26.8	38	25	233	34	24.4	38	31	218	36	900	
850		31	27	160	30		30	20	222	23		30	28	263	24		28	21	237	22		28	25	249	33		35	30				33	27	220	48		31	23	231	33		31	26	222	36	850	
800	55.4	24	16	161	29	53.8	23	13	208	30	54.2	24	21	260	21	55.0	20	13	229	25	55.7	23	22	243	33	58.1	29	22	For			58.1	29	20	219	57	57.7	25	18	232	34	55.3	23	17	226	37	800
750		17	10	171	26		16	06	202	28		18	15	234	17		14	03	228	29		17	16	240	34		23	07				22	13	218	55		17	11	231	37		15	09	225	39	750	
700	87.3	11	06	182	20	87.6	11	02	207	33	88.2	15	11	204	22	88.7	08	07	226	33	89.7	11	10	235	36	92.5	18	02	Winds			92.4	14	07	215	57	91.6	10	03	230	41	89.1	09	02	227	38	700
650		06	01	194	22		04	13	197	36		09	05	207	28		00	20	223	38		05	03	232	38		10	10				07	05	216	62		03	08	233	43		03	18	220	39	650	
600	127	02	08	190	28	126	03	15	198	44	127	02	01	205	30	127	07	29	224	42	128	02	05	232	36	131	03	23	See			131	01	15	222	69	130	04	16	226	47	127	05	27	222	41	600
550		11	17	180	28		12	21	190	46		07	11	195	32		16	40	224	46		09	12	229	53		03	36				09	19	222	81		13	25	222	50		14	35	230	48	550	
500	171	19	24	170	45	169	22	27	185	52	171	17	22	189	31	170	28	42	213	52	172	20	24	225	42	176	08	44	page			175	12	27	218	114	173	24	33	224	48	171	24	42	220	56	500
450		28	36	176	60		32	38	191	62		29	34	199	35		38	52	200	66		31	36	217	42		19	51				19	38	217	123		32	44	224	70		35	48	210	61	450	
400	222	40	46	181	63	220	42	45	186	69	222	42		198	39	220	49		195	69	223	42		36	218	43	228	30	52	5.			227	30	51	215	128	224	34	53	219	112	221	47	210	65	400
350		53		177	72		53		174	77		57		194	57		60		197	59							292	60					291	54		216	118	288	52		217	110	283	50	217	60	300
300	285	67		176	80	283	56		177	63	284	57		201	65	282	56		203	51							292	68					291	54		216	116	288	52		221	109	283	44	220	43	250
250		65		190	24		50		193	51		53		204	58		52		211	59							292	68					291	54		216	116	288	52		221	109	283	44	220	43	250
200	370	57		198	56	371	47		193	51	372	55		209	57	370	50		211	51						376	74					377	69		208	85	375	53		220	70	373	54	220	70	200	
170		61		194	48		48		198	49		55		209	57		48		211	51						376	74					377	69		208	85	375	53		220	70	373	54	220	70	170	
150		58		204	46		48		194	41		54		211	53		50		211	46						376	74					377	69		208	85	375	53		220	70	373	54	220	70	150	
130		61		207	42		47		215	33		56		223	31		54		211	45						376	74					377	69		208	85	375	53		220	70	373	54	220	70	130	
110		59		219	33		49		208	31		58		209	33		52		211	33						376	74					377	69		208	85	375	53		220	70	373	54	220	70	110	
100	518	58		211	29	524	50		224	30	521	57		217	36	521	49		211	29						376	74					377	69		208	85	375	53		220	70	373	54	220	70	100	
90		58		214	39		50		210	36		54		220	27		47		211	29						376	74					377	69		208	85	375	53		220	70	373	54	220	70	90	
80		53		228	32		42		220	33		51		222	21		43		211	29						376	74					377	69		208	85	375	53		220	70	373	54	220	70	80	
70		52		236	35		33					46					45									376	74					377	69		208	85	375	53		220	70	373	54	220	70	70	
60	(058 mb)	52		225	26												47									376	74					377	69		208	85	375	53		220	70	373	54	220	70	60	
Inversion				865mb. 30° - 850 " 31°				Isothermal				979 - 965mb. 43°				Isothermal				820mb. - 800mb. 23°				Inversion				735mb. 21° - 723mb. 22° 284 - - 65° - 267 - - 64°				(055 mb)				Inversion				450mb. - 32° - 424 - - 30°							
Tropopause				II 300mb. -67° 28,500'				I 315mb. -62° 27,200'				I 329mb. -61° 26,400'				I 342mb. -62° 25,300'				N.R.				I 215mb. -79° 36,000'				II 250mb. -67° 33,100'				II 276mb. -58° 30,600'				I 369mb. -56° 23,800'				Tropopause							
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION										
Time M.S.L. Surf Freezing	2100		G.M.T.		2100		G.M.T.		G.M.T.		2100		G.M.T.		G.M.T.		2100		G.M.T.		2100		G.M.T.		2100		G.M.T.		2100		G.M.T.		Time M.S.L. Surf Freezing														
	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											
Surf	02.7	40	40	281	10	00.5	39	37	180	08						02.3	37	32	200	10						01.2	45	39	180	10	04.4	42	40	190	13	02.9	43	37	180	15					Surf		
1000	-5.3					-0.5																				0.3								0.3				-0.2								1000	
950		41	39	275	21		39	36	198	27							37	32	210	29							42	35	220	27			41	35		42	35	218	32					950			
900	22.8	35	33	291	20	23.5	32	28	201	33						25.3	32	33	221	36						28.5	36	29	233	36			28.5	36	28		28.1	36	28	227	33					900	
850		30	30	296	19		26	23	204	36						55.8	17	12	225	37							32	20	233	40			31	23		30	21	228	34					850			
800	53.7	24	24	286	20	54.1	20	16	205	39									225	38						59.5	26	14	231	42			59.4	25	12		58.9	23	13	223	38					800	
750		19	18	294	20		13	09	206	37							13	04	224	36							20	05	230	46			19	06		17	05	220	41					750			
700	87.9	14	12	292	16	88.2	06	01	206	35																																					

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 1500 G.M.T.

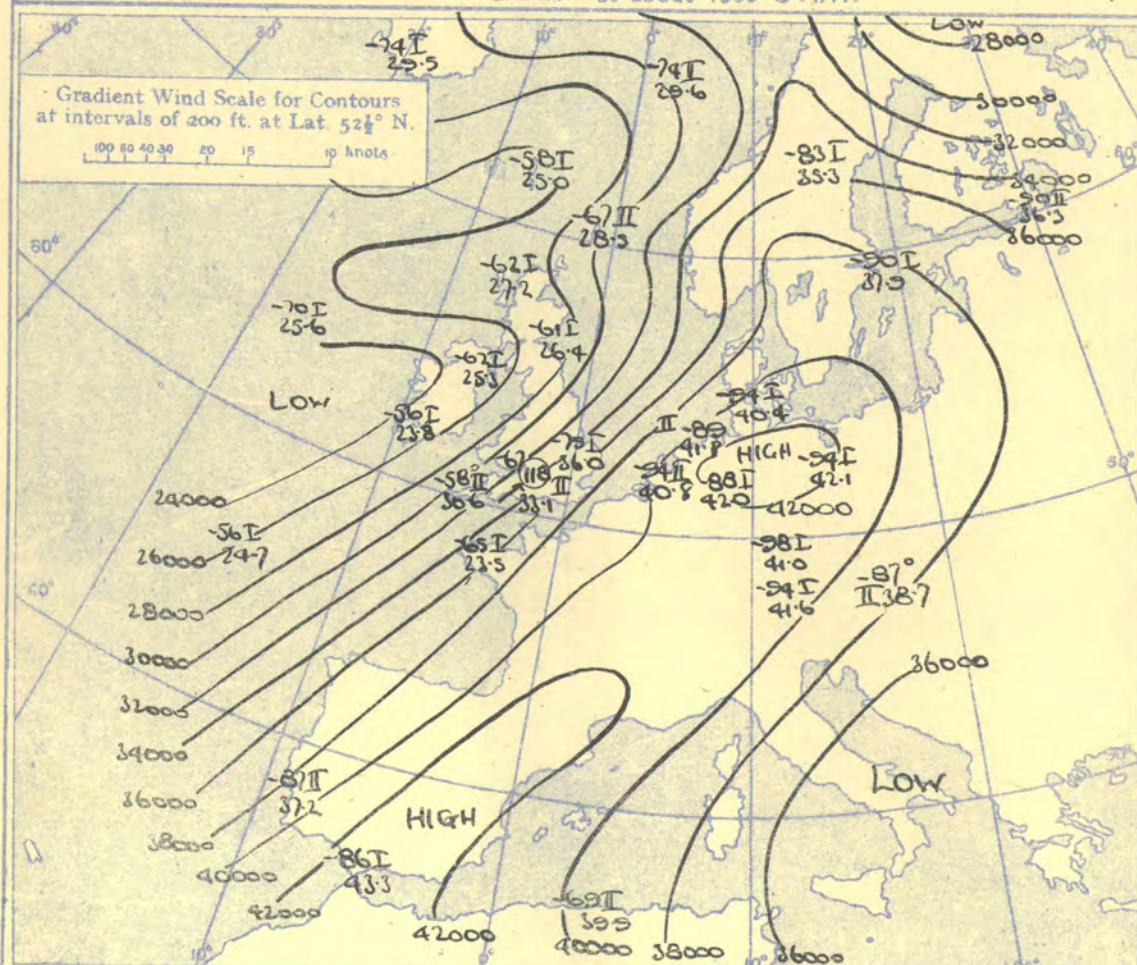


The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.



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.

TROPOPAUSE CHART at about 1500 G.M.T.



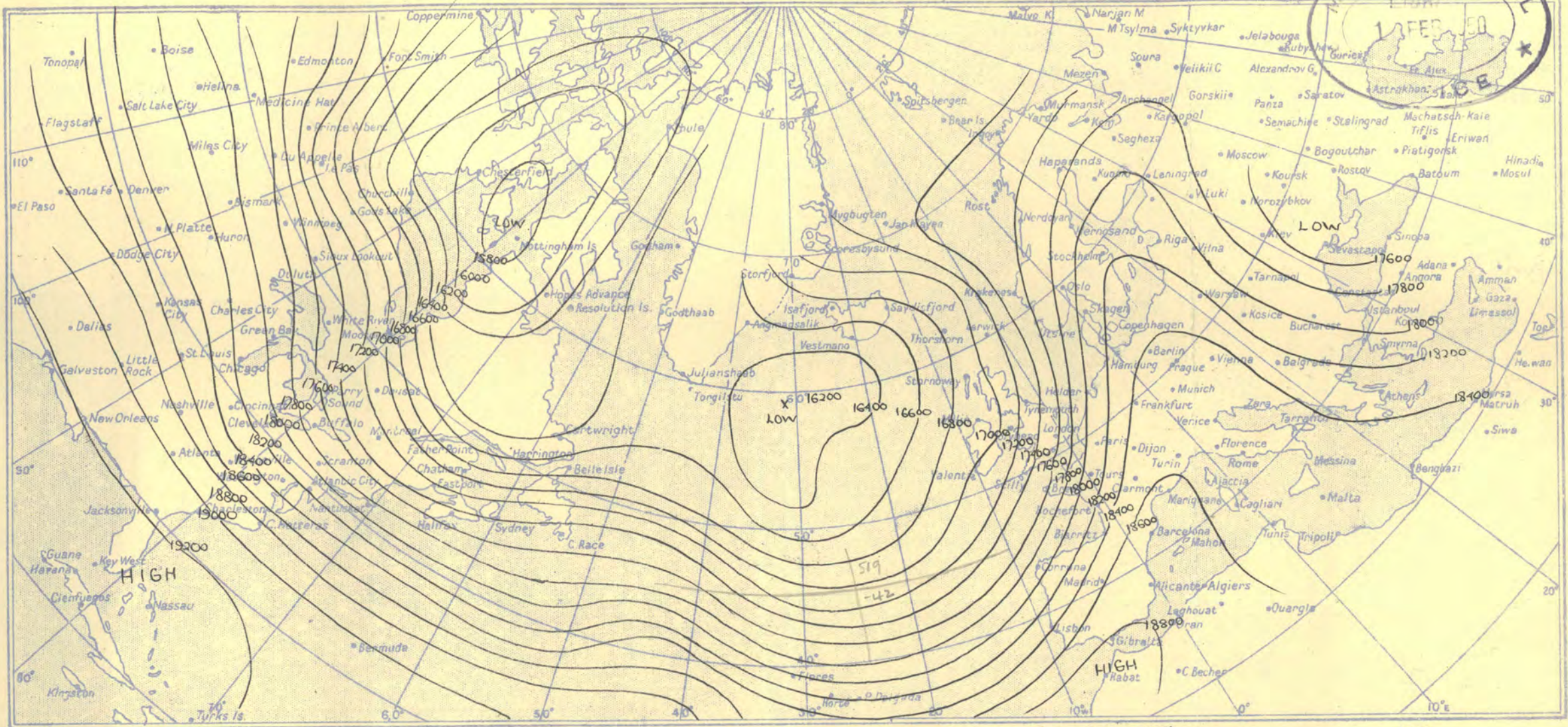
Contour lines of Height of Tropopause.
Temperature of Tropopause.

NOTES ON THE AEROLOGICAL SITUATION.

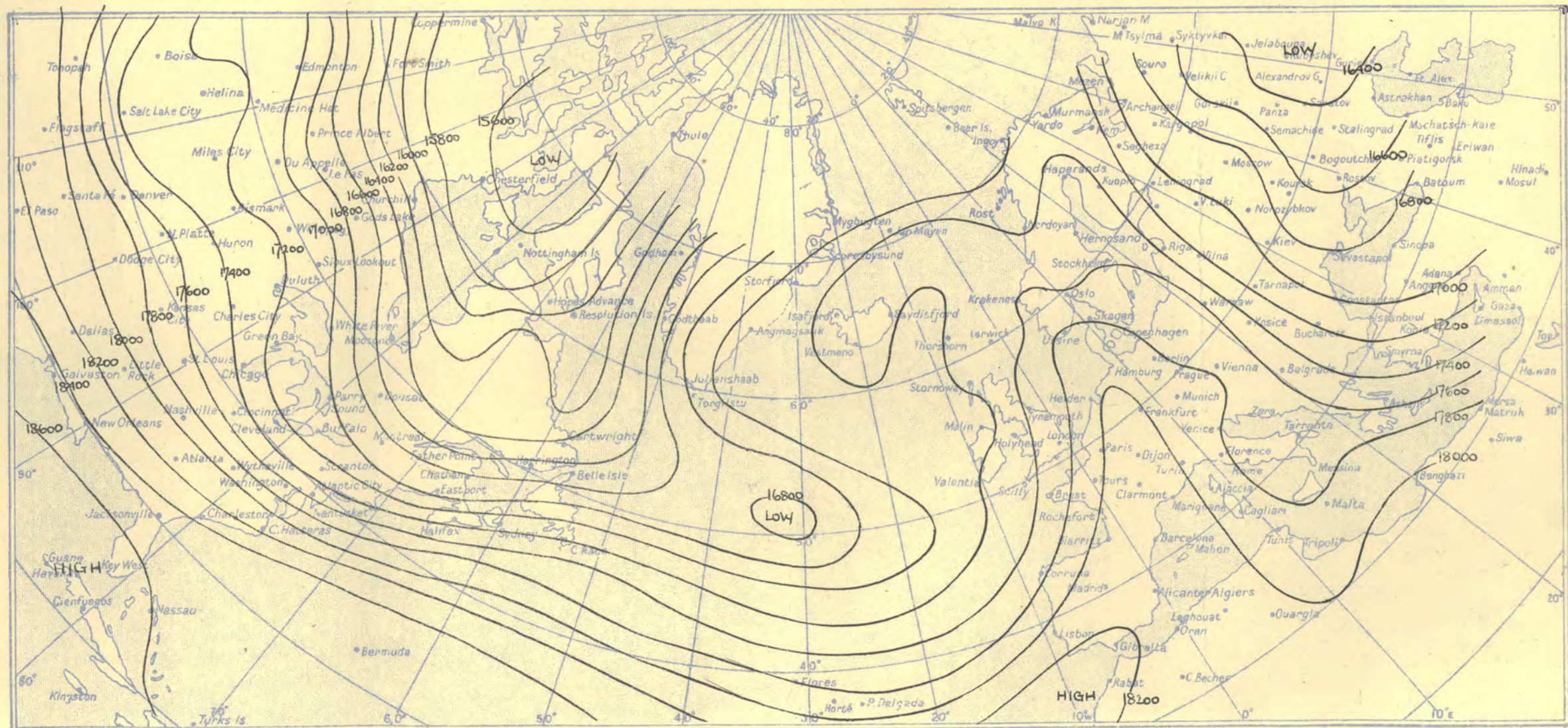
The axis of the European warm wedge moved slowly East over continental Europe and Northeast in the Scandinavia-Iceland region. With the eastward advance of a new low pressure system from the United States there was considerable warming in the region South of Greenland and Northwest of the Azores, which resulted in a cold pool being cut off some 600 or 700 miles West of Ireland.

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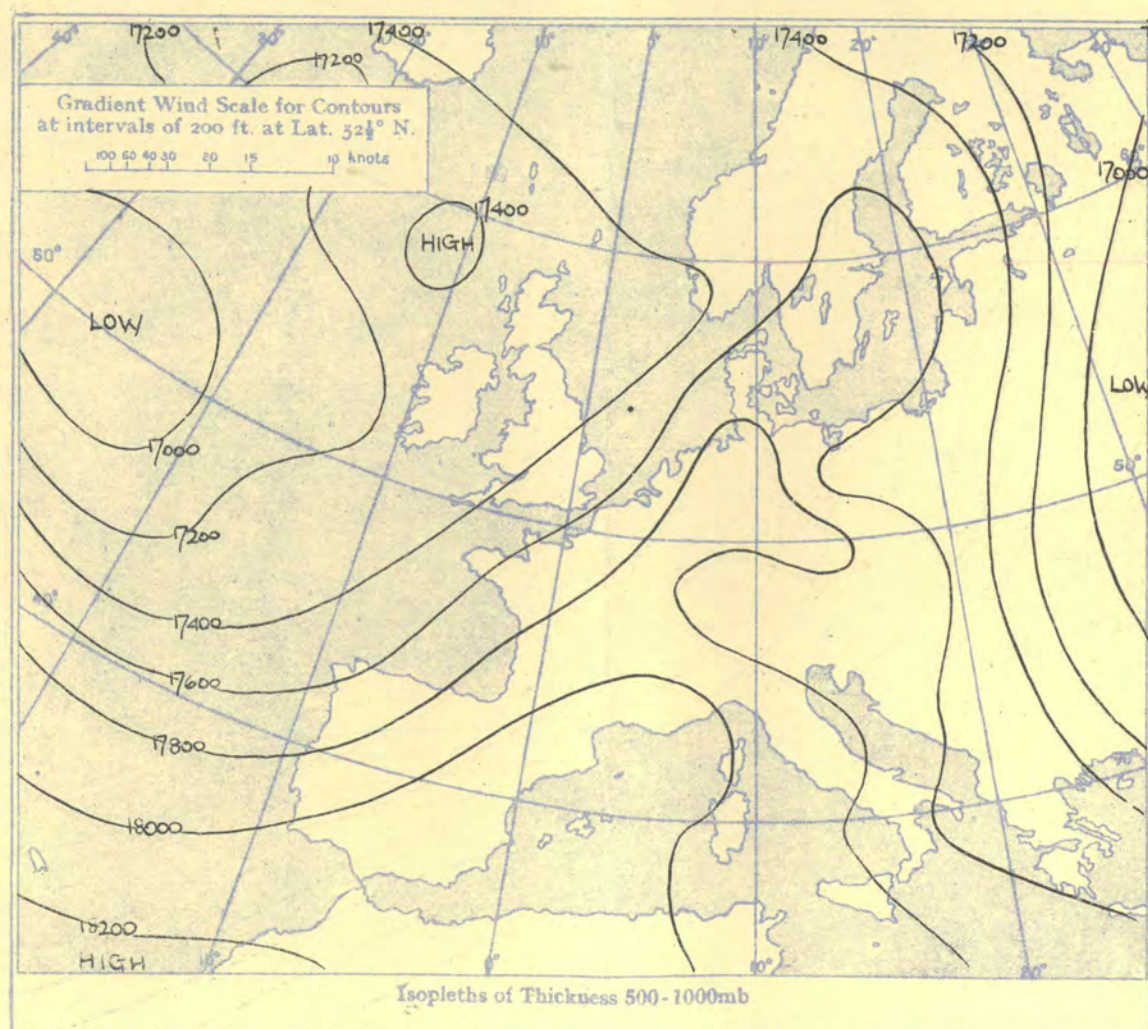
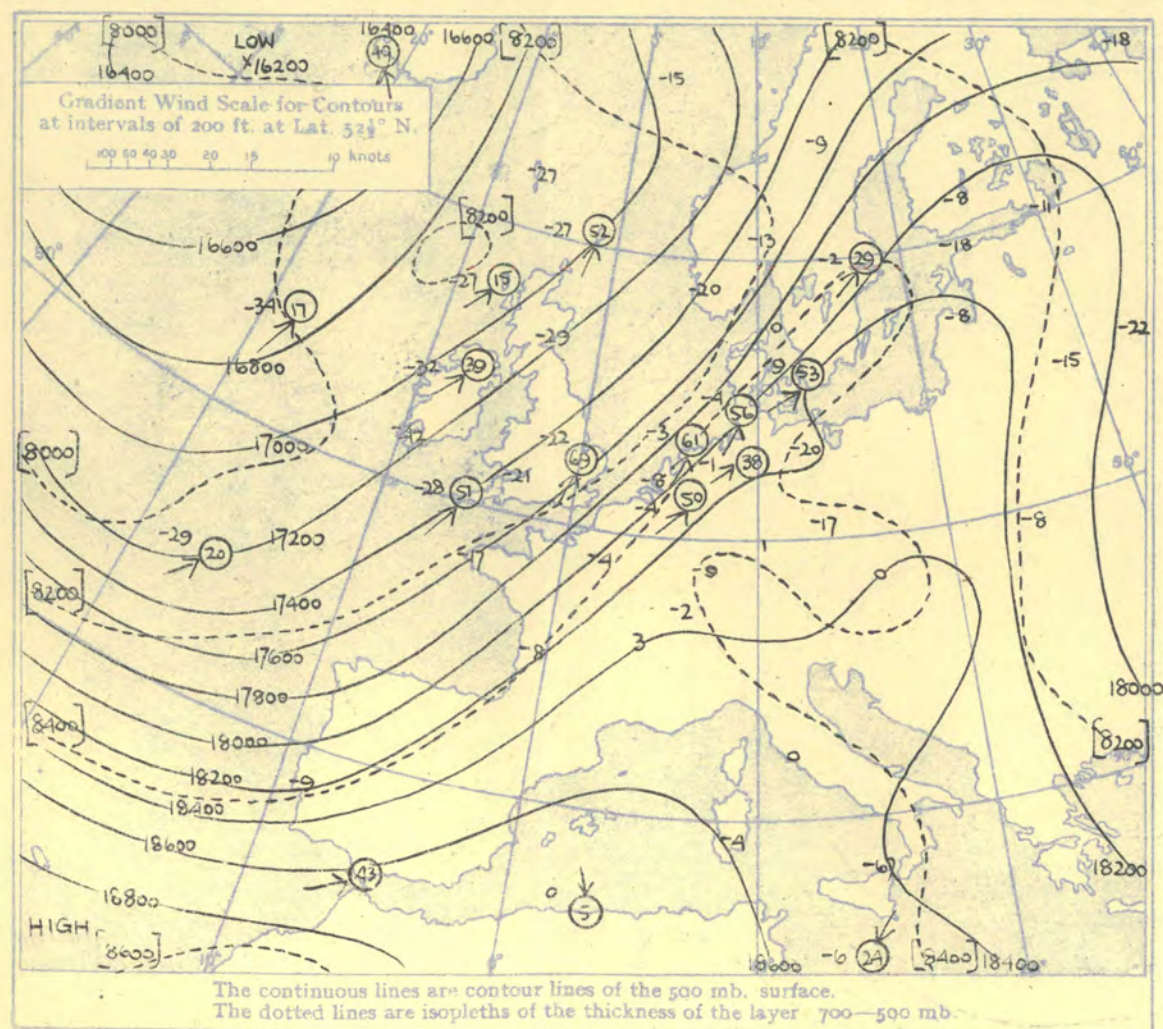
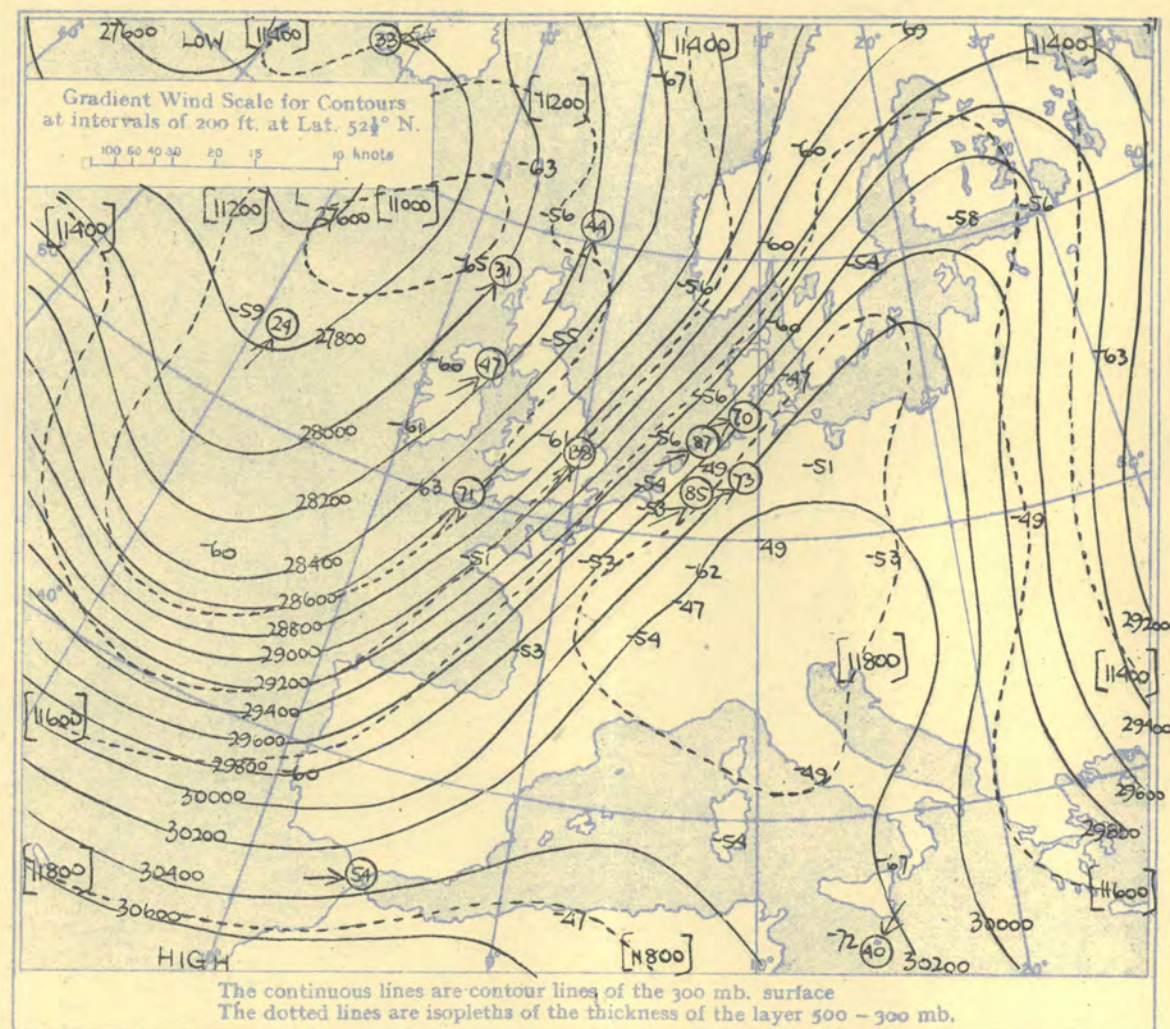
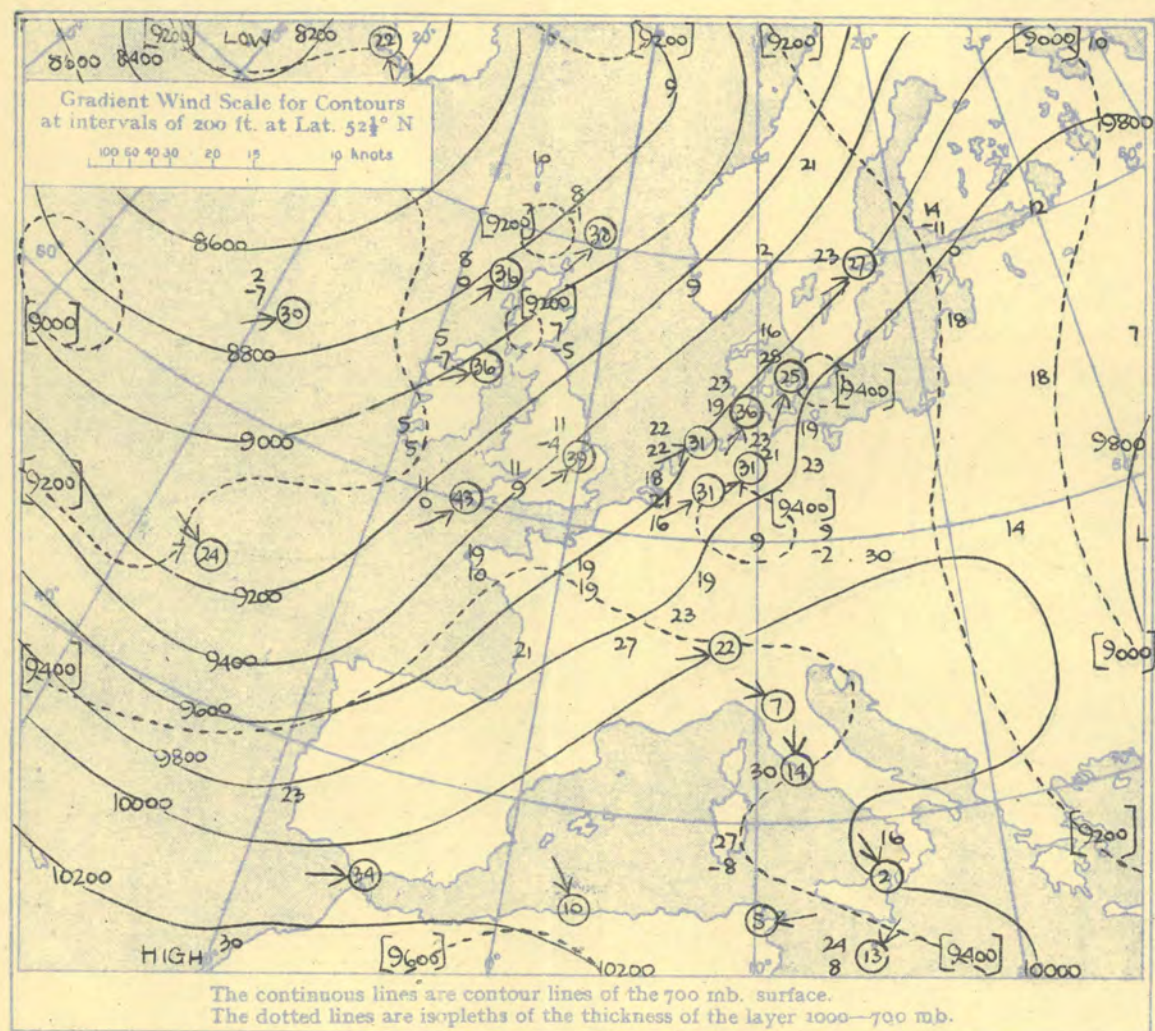
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Friday 3rd February 1950.



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 0300 G.M.T.



Saturday 4th February. 1950

Saturday 4th February. 1950

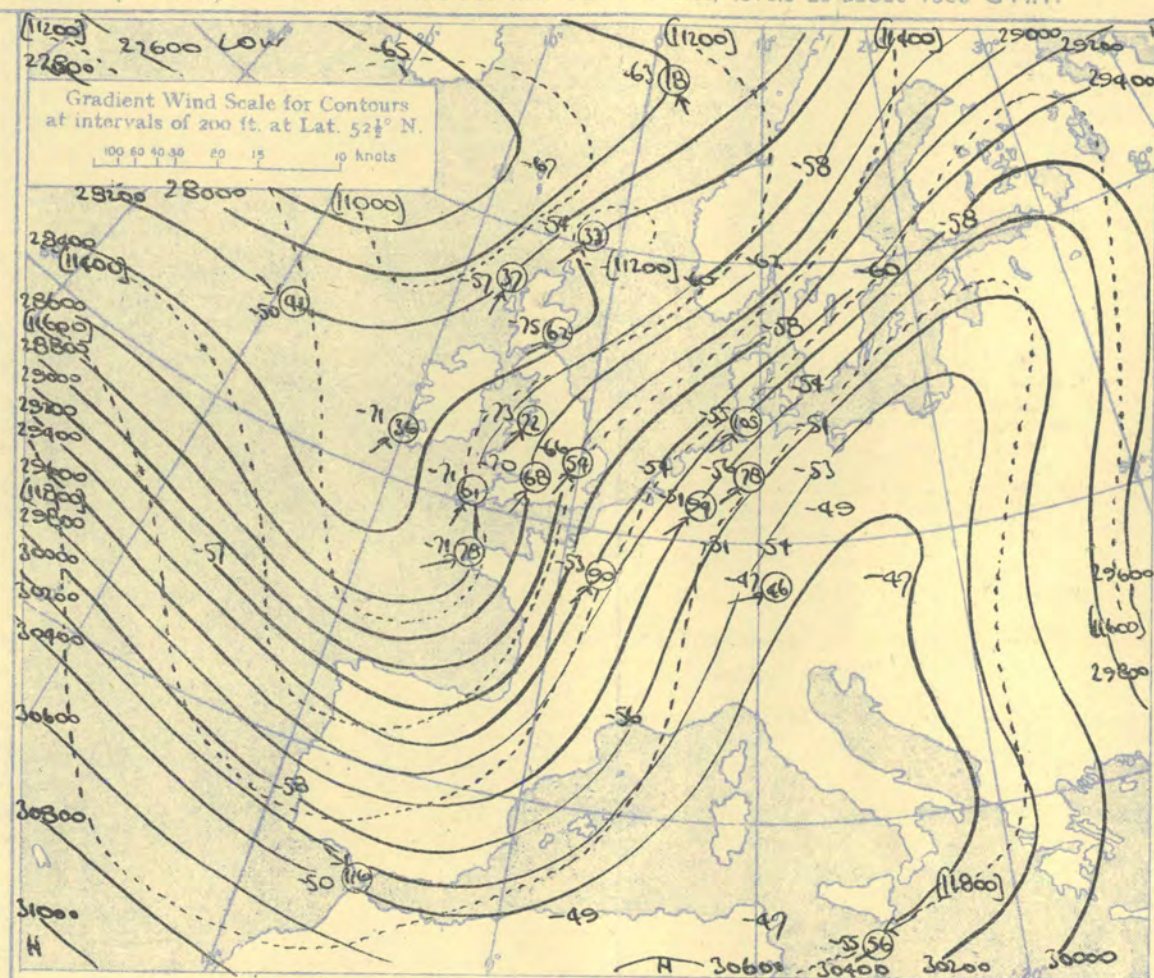
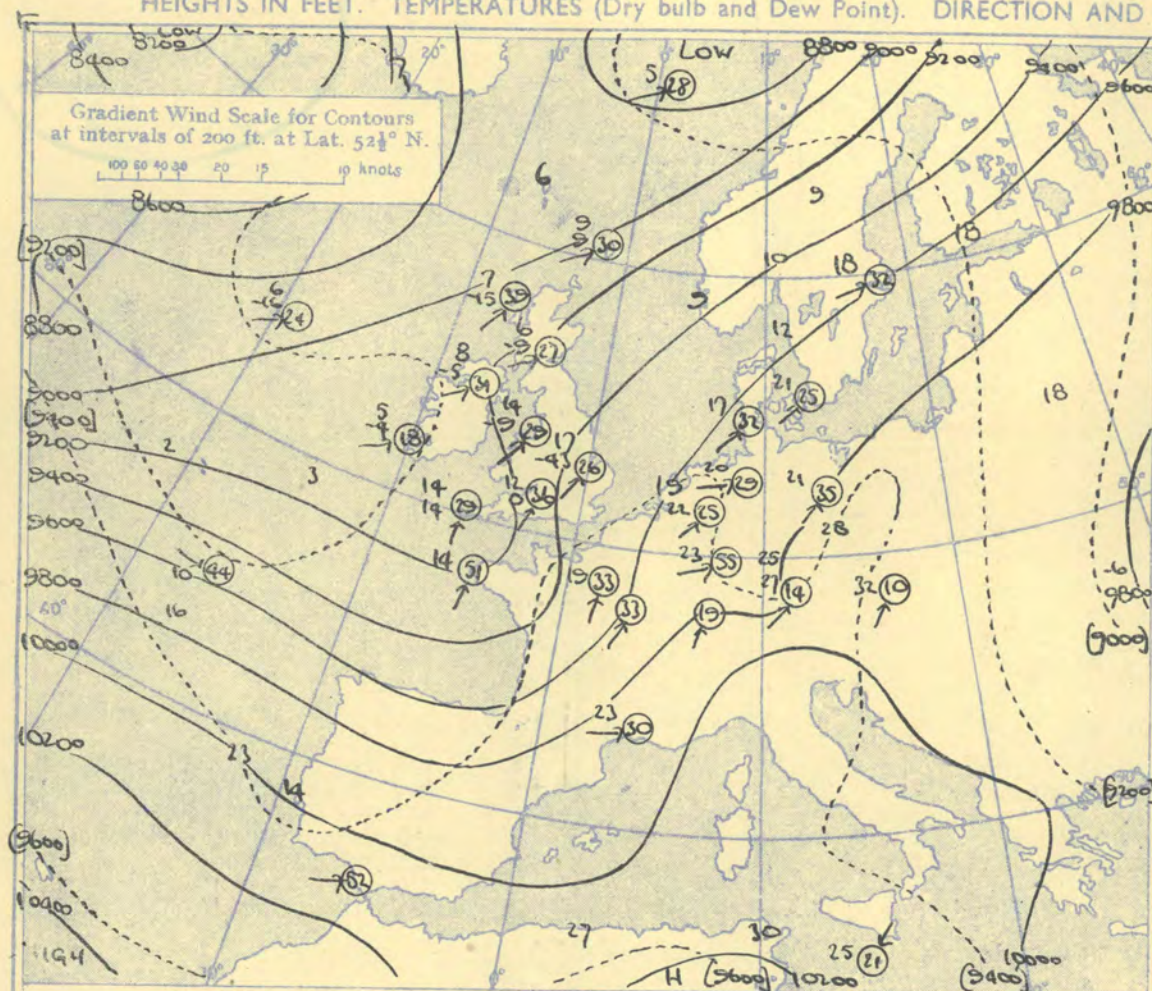
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION		
Pressure mb	Time M.S.L.	0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		Time M.S.L.	Pressure 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	Surf	Freezing	Surf	Freezing									
		880	mb	880	mb	880	mb	880	mb	880	mb	880	mb	880	mb	880	mb	880	mb	880	mb	880	mb	880	mb	880	mb	880	mb	880	mb	880	mb							
Surf	1000	2.7	41	38	214	21	0.5	42	40	180	15	0.2	36	33	2.3	37	32	200	15	1.2	42	39	180	10	4.4	42	38	180	08	2.9	40	38	180	15	0.3	39	36	240	12	Surf
950	950	30	40	37	233	29	40	39	181	34	17	36	31	2.1	34	30	212	36	1.2	42	39	180	10	4.4	42	38	180	08	2.9	40	38	180	15	0.3	39	36	240	12	1000	
900	900	25.1	34	30	231	26	24.1	32	32	185	31	26.3	32	26	25.9	32	25	220	40	29.4	37	27	223	29	29.1	35	32	28	24	212	30	26.4	29	27	241	20	950			
850	850	28	23	228	25	25	25	192	31	26	21	56.5	20	12	226	36	13	4	225	39	60.3	26	08	226	33	59.9	23	20	59.0	23	16	210	32	56.9	17	16	900			
800	800	55.7	22	15	219	28	54.6	18	18	200	36	56.9	19	14	56.5	20	12	226	36	60.3	26	08	226	33	59.9	23	20	59.0	23	16	210	32	56.9	17	16	850				
750	750	15	05	212	33	12	07	213	36	13	03	13	4	225	39	19	01	225	34	19	01	225	34	17	15	17	08	207	39	11	09	11	09	750						
700	700	08	01	216	38	08	00	212	36	05	07	05	5	7	229	36	11	04	219	39	19	01	225	34	17	15	17	08	207	39	11	09	700							
650	650	00	12	224	42	02	11	208	29	01	12	5	7	229	36	11	04	219	39	19	01	225	34	17	15	17	08	207	39	11	09	650								
600	600	17	06	218	45	12	07	204	24	12	10	20	11	21	227	42	04	11	216	41	132	05	11	223	55	132	05	11	223	55	132	05	11	223	55	600				
550	550	17	26	209	50	17	33	204	17	18	29	20	23	223	39	12	18	219	63	132	05	11	223	55	132	05	11	223	55	132	05	11	223	55						

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

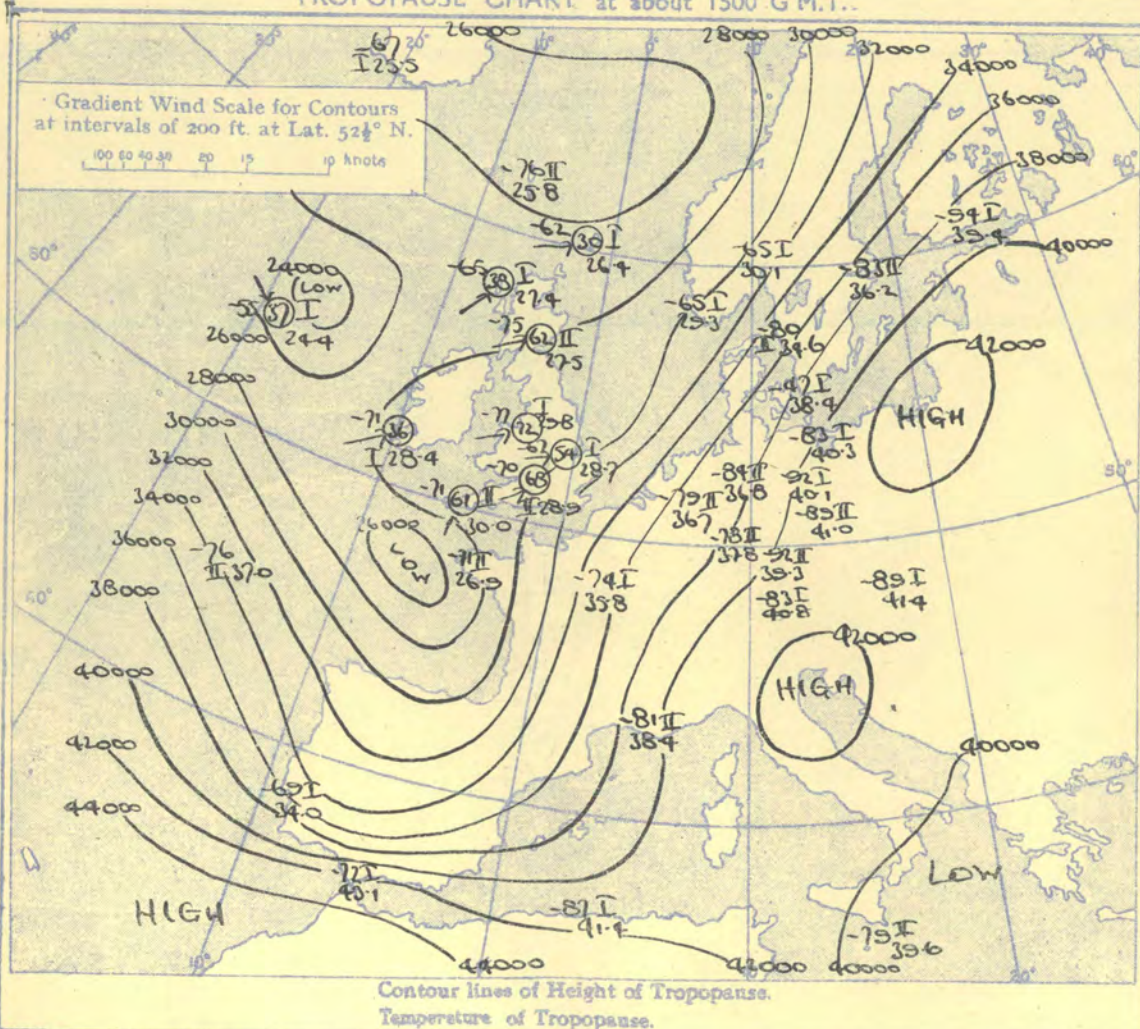
Saturday, 4th February, 1910.

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION														
Pressure Time M.S.L. Surf Freezing	1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500	G.M.T.																	
	992.7		mb		991.8		mb		999.3		mb		999.0		mb		1001.0		mb		1004.4		mb		1001.6		mb		994.2		mb		998.5	mb																	
	982.7		mb		989.8		mb		998.5		mb		990.3		mb		998.9		mb		1000.0		mb		985.5		mb		983.7		mb		997	mb																	
	894		mb		899		mb		900		mb		900		mb		880		mb		857		mb		841		mb		861		mb		897	mb																	
Pressure Height Temp. Dew Wind Dir. Vel.	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	ft./100 °F. °F. °F. ° knots	Pressure mb																				
Surf	02.7	43	39	202	27	00.5	43	39	180	25	00.2	41	37	230	13	02.3	41	33	200	12	00.6	43	37	140	10	01.2	47	41	170	08	04.4	46	41	160	10	02.9	45	43	160	15	00.3	39	36	060	05	Surf					
1000	-2.0					-2.2					-0.3					-0.3						0.3										0.3					-1.6					1000									
950		39	37	219	36		38	32	202	44		40	32	224	16		37	30	214	18		37	30	174	12		41	35	184	18		41	37	140	20		41	40	165	31		36	32		950						
900	26.0	33	32	222	32	25.9	32	33	207	46	27.9	32	25	232	22	27.7	32	25	214	19	28.2	35	27	195	14	29.4	35	30	189	19	28.5	34	32	160	25	26.6	36	36	177	29	27.5	30	29	260	11	900					
850		28	26	223	30		27	19	209	42		24	17	233	24		26	19	210	24		28	21	192	17		32	20	191	20		32	20	170	29		31	31	187	28		24	11	247	14	850					
800	56.6	22	22	223	29	56.6	22	10	210	39	58.3	19	10	222	22	58.2	20	13	210	25	58.8	23	12	194	17	60.4	27	00	189	20	59.5	28	11	178	31	57.5	27	27	188	27	57.9	18	13	241	15	800					
750		16	16	218	28		15	03	206	39		13	01	214	24		15	06	215	27		19	02	198	18		24	-25	190	19		21	05	182	31		20	20	183	27		12	06	241	18	750					
700	90.4	09	09	216	30	90.2	07	05	206	39	91.9	06	09	220	27	91.9	08	05	220	31	92.8	14	09	200	29	94.7	17	-43	197	26	93.7	12	00	185	36	91.8	14	14	183	29	91.5	05	04	234	18	700					
650		02	01	225	33		-03	-17	206	41		-01	-17	214	33		00	-21	208	35		06	-11	195	35		10	-44	203	36		05	-04	184	39		07	07	185	30		-03	-14	221	22	650					
600	128	-05	-10	223	36	128	-12	-24	206	44	130	-08	-23	218	40	130	-06	-30	208	35	131	-04	-16	190	33	133	01	-47	202	41	132	-02	-09	183	45	130	-02	03	185	31	129	-11	-26	204	28	600					
550	-14	-22		223	35	-12	-34		207	44	-18	-33		222	45	-16	-38		215	34	-16	-23		198	48	-07	-40		201	47	-10	-14		180	46	-09	-11		174	33	-20	-35	204	28	550						
500	172	-24	-34	241	29	170	-31	-42	213	46	173	-29	-43	227	46	173	-26	-40	217	41	175	-19	-23	206	57	177	-18	-38	197	45	176	-20	-27	189	43	174	-20	-24	175	33	172	-29	-43	208	37	500					
450		-35	-44	238	26		-41	-47	208	30		-38	-51	239	65		-38	-47	212	51		-32	-35	208	57		-27	-41	204	42		-30	-37	199	44		-32	-37	173	51		-36	-49	193	52	450					
400	222	-49		231	24	220	-50	-49	183	32	223	-50		232	76	223	-48		212	63	226	-45		215	63	229	-41		211	40	227	-42		201	46	225	-43		169	56	222	-48		181	53	400					
350		-60		241	27		-58		207	38		-64		234	81		-64		209	82		-58		217	74		-56		212	48		-56		209	53		-57		172	65		-62		198	55	350					
300	284	-54		223	33	282	-57		195	37	283	-75		230	62		-57		224	49		-65		214	57	287	-73		220	72	289	-70		205	68	286	-71		179	61	284	-71		218	36	300					
250		-49		216	41							-57		224	49							-68		214	57		-65		210	80		-62		206	67		-59		210	45		-52		233	36	250					
200	373	-48		216	35						369	-59		220	41						372	-59		214	54	376	-66		216	59		216	59		204	63	373	-55		227	38	371	-54		231	32	200				
170		-48		222	40							-57		220	44							-59		213	14		-57		215	51		-57		209	52		-56		219	27		-50		253	32	170					
150		-48		215	32							-54		217	42							-61		217	36		-55		217	40		-57		217	47		-54		228	29		-54		244	36	150					
130		-48		219	40							-50		223	41							-56		220	45		-56		220	40		-55		224	28		-52		222	31		-51		242	39	130					
110		-48		222	45							-48		247	33							-52		227	43		-57		222	34		-54		222	30		-52		230	27		-48		235	35	110					
100	(107)	-48									510	-47		243	29						521	-51		224	31	525	-55		228	27	528	-55		240	22	523	-50		240	22	523	-47		245	33	100					
90												-46		233	27							-49		226	29		-50		241	27		-51		242	15		-51		242	15		-45		250	21	90					
80												-40										-50		236	26		-52		255	16		-52		259	10		-49		246	10		-41		245	13	80					
70												-31										-47		243	21		-41		243	20																70					
60																						-41		243	20																				60						
Inversion																																Inversion										Inversion									
550 mb. -16°																																892 mb. 33°										875 mb. 34°									
525 " -13°																																																			

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

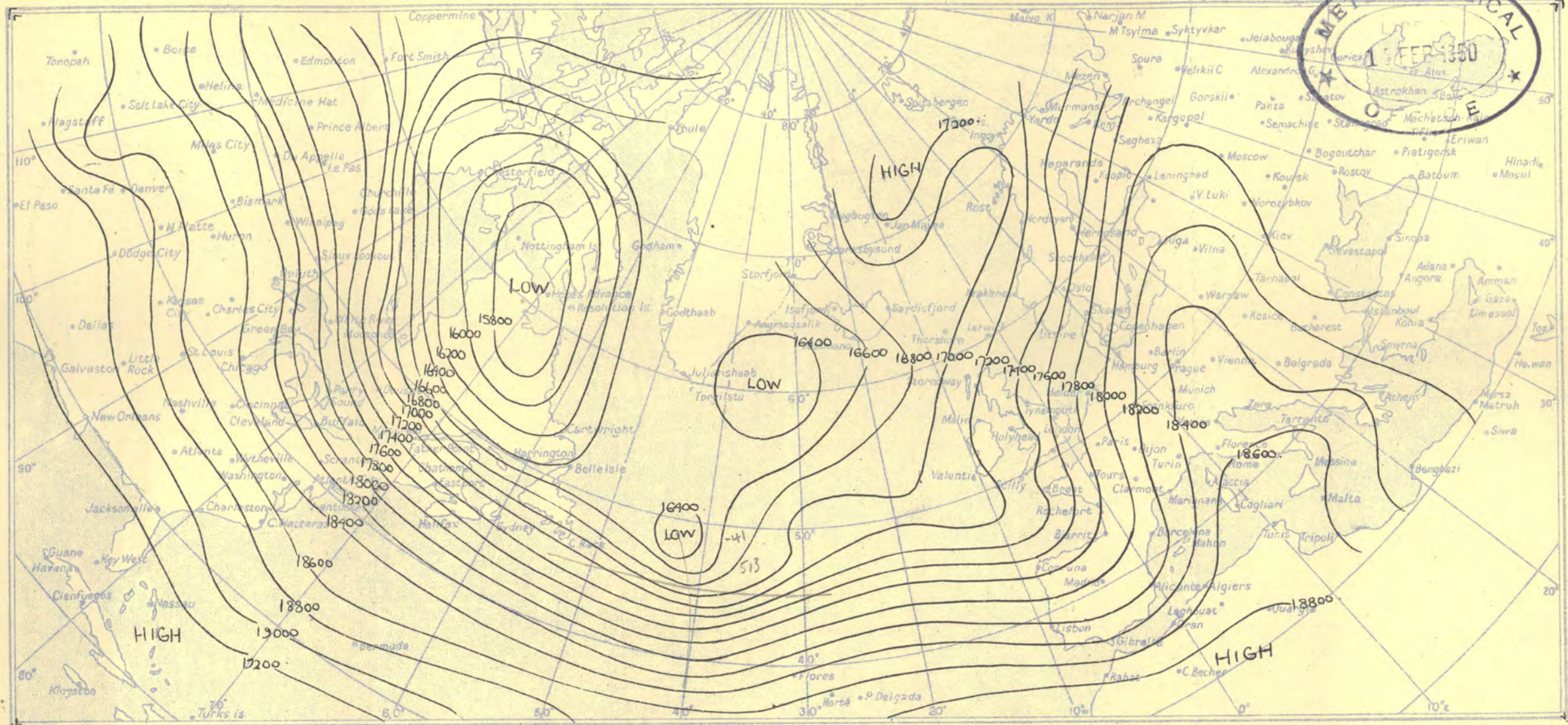


NOTES ON THE AEROLOGICAL SITUATION.

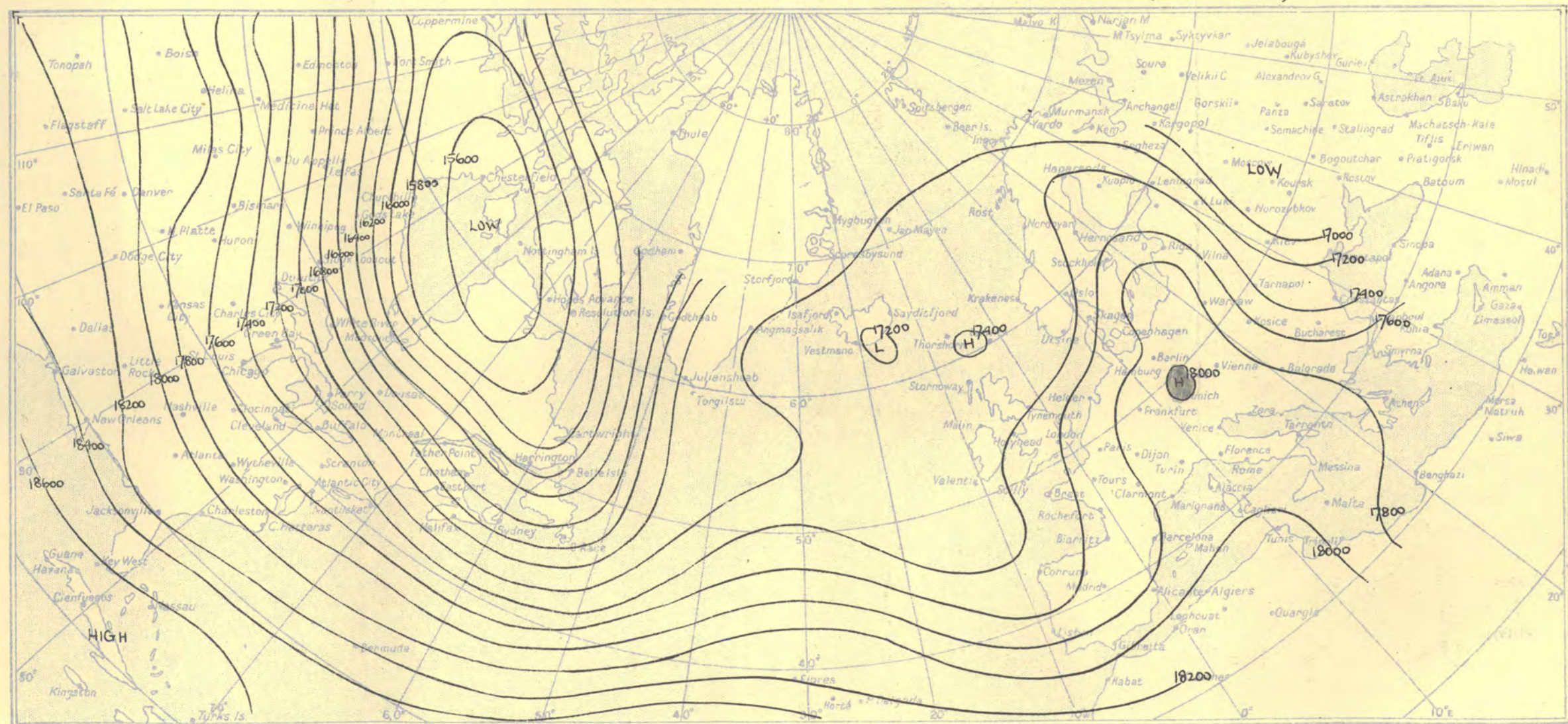
The warm wedge on the Atlantic moved Eastwards. A marked thermal trough developed in association with the cold pool West of Ireland and moved East or Northeast over Iberia, France and the British Isles.

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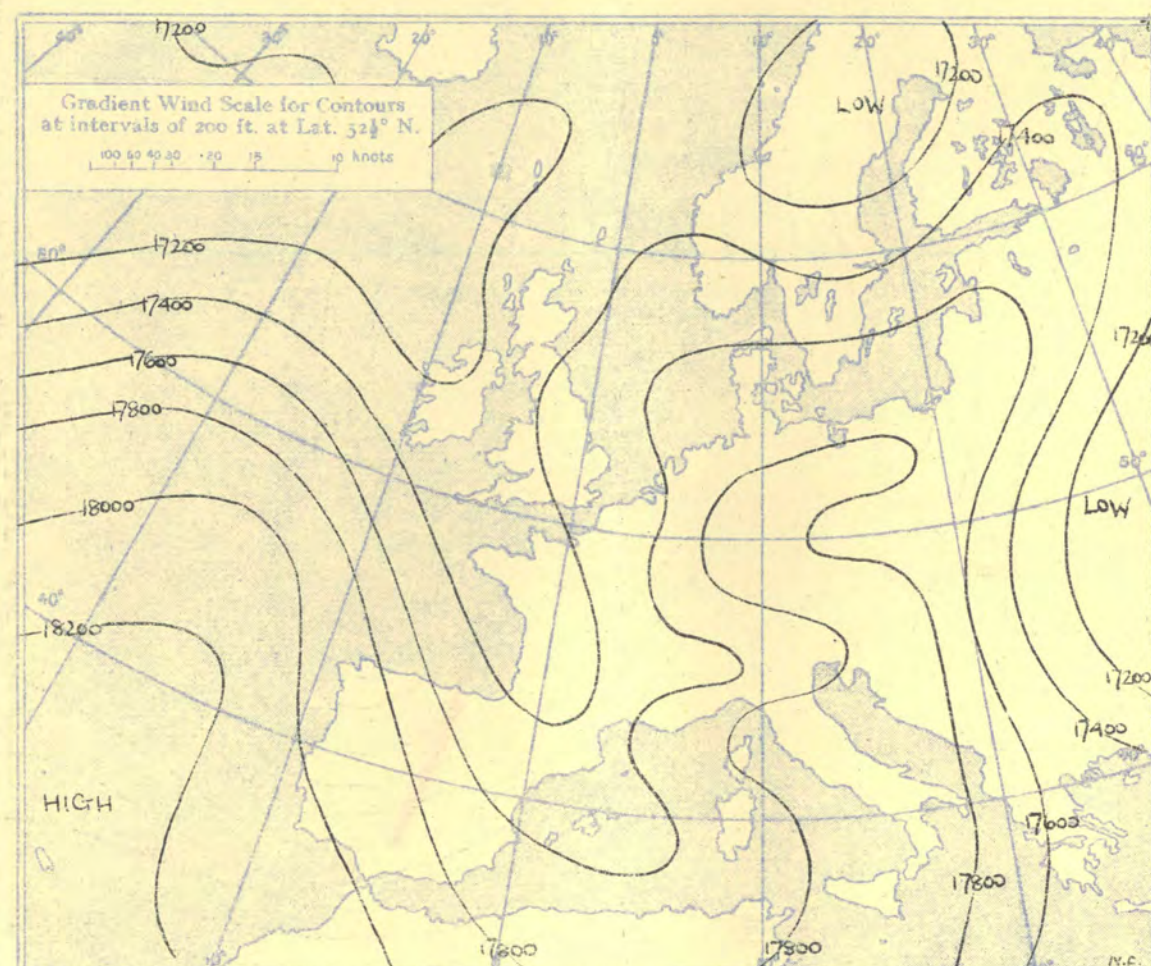
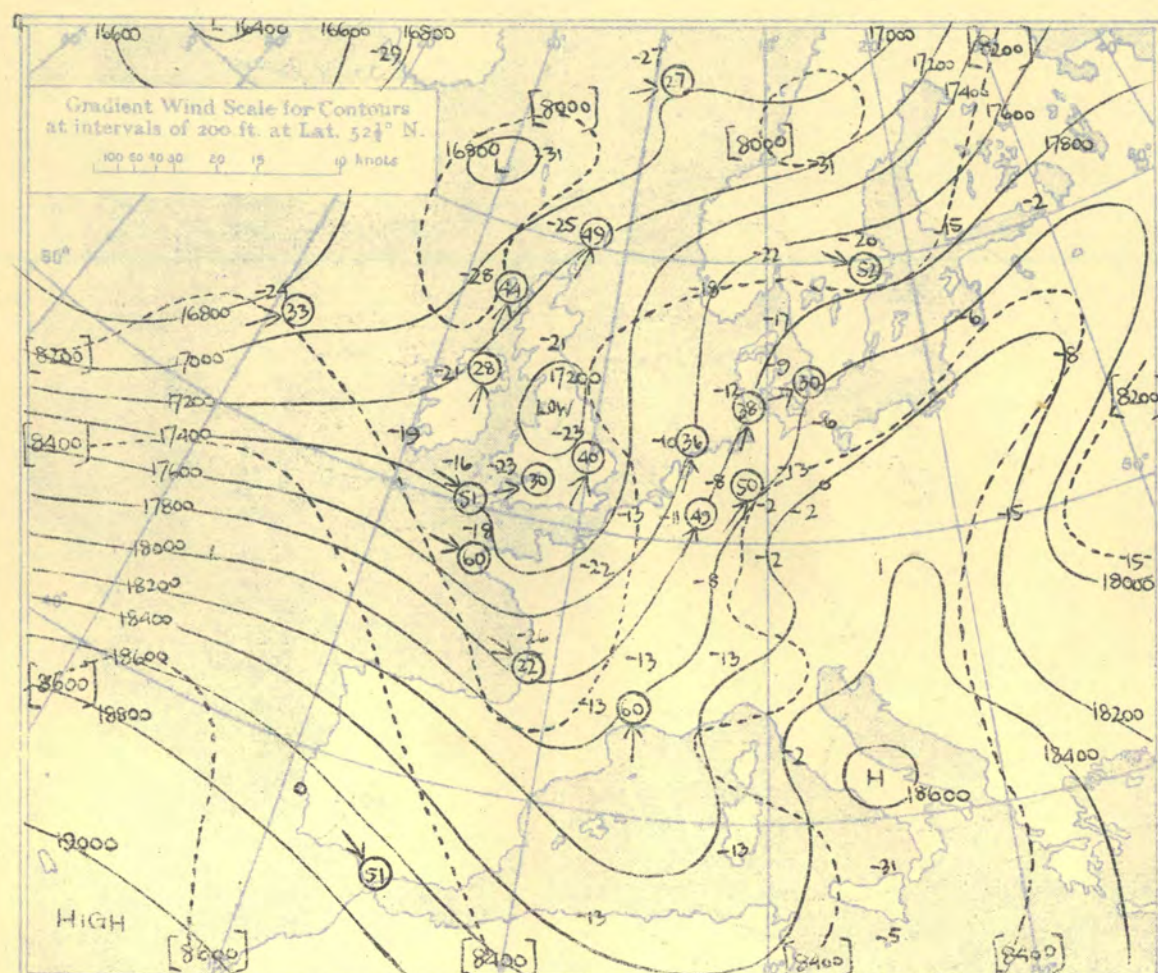
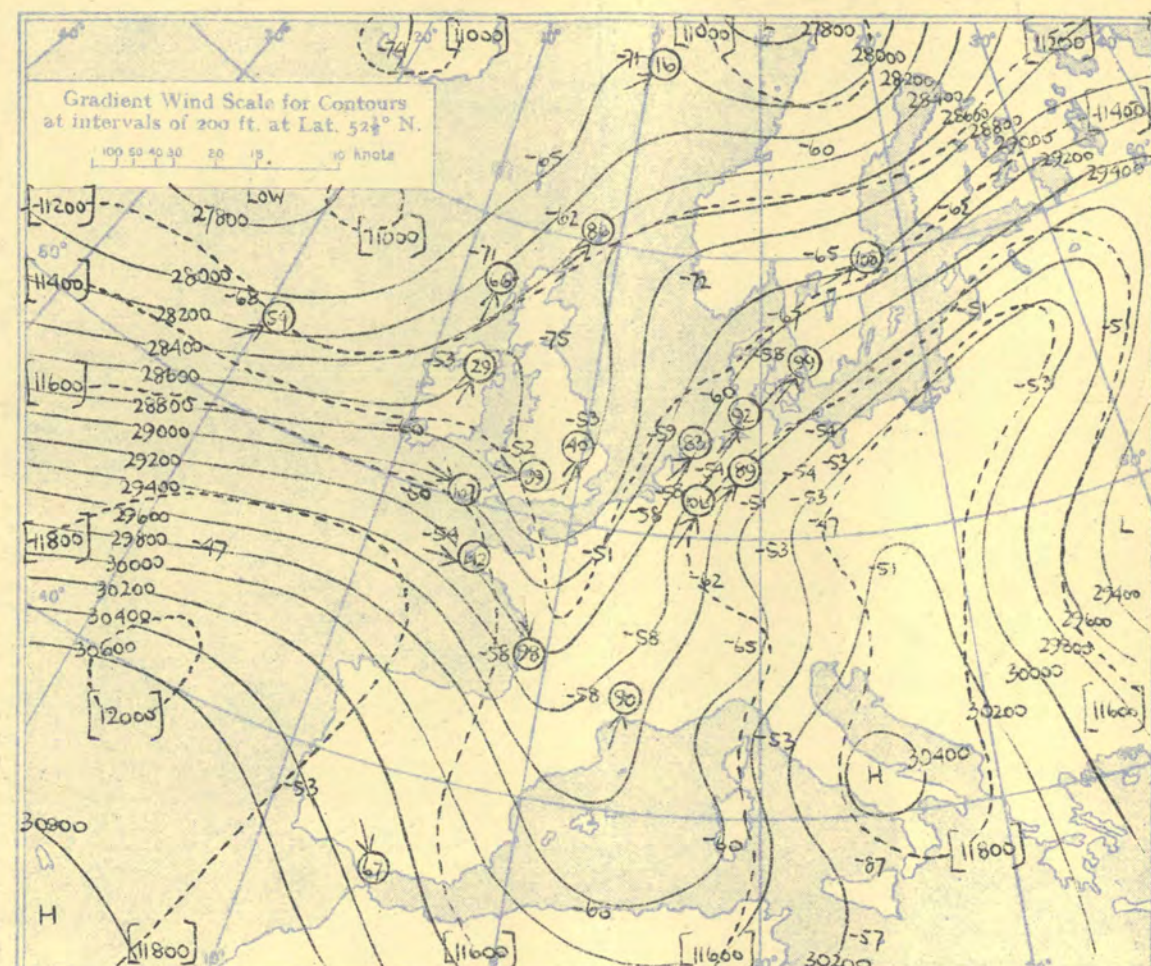
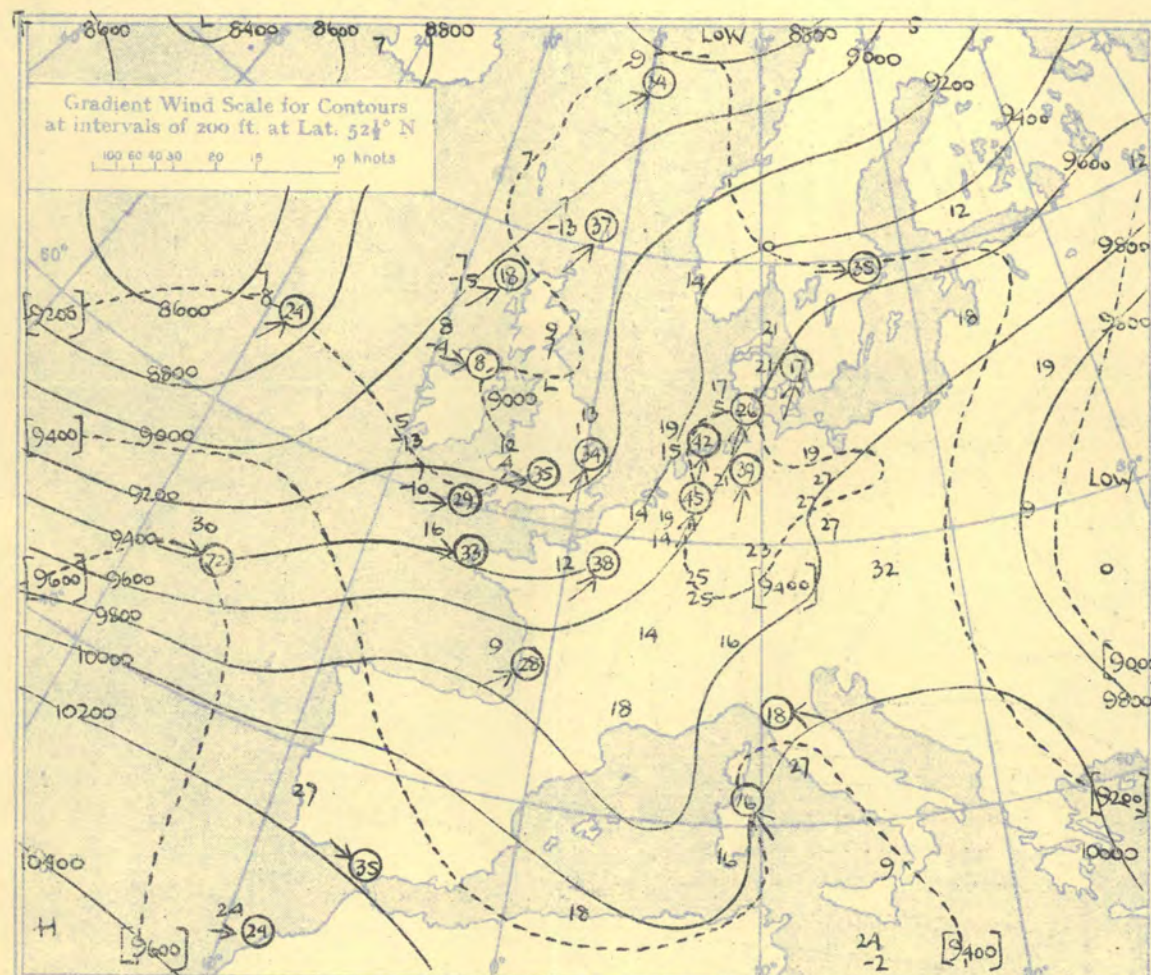
Meteorological Office, Air Ministry, Kingsway, London, W.C.2.
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Saturday 4th February 1950.



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 0300 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

Ship	Weather Explorer				Weather Explorer				Weather Observer				Weather Observer				Weather Observer				Weather Observer				Weather Explorer				Weather Explorer				Ship											
Lat/Long	53°17'N 18°6'W				53°17'N 18°1'W				60°11'N 19°1'W				60°11'N 19°1'W				60°11'N 20°W				59°8'N 20°W				53°17'N 18°4'W				53°8'N 18°8'W				Lat/Long											
Pressure	Time	15 hrs 4 th G.M.T.			Time	21 hrs 4 th G.M.T.			Time	15 hrs 4 th G.M.T.			Time	21 hrs 4 th G.M.T.			Time	03 hrs 5 th G.M.T.			Time	03 hrs 5 th G.M.T.			Time	03 hrs 5 th G.M.T.			Time	03 hrs 5 th G.M.T.			Time	G.M.T.										
	M.S.L.	989 mb			M.S.L.	991 mb			M.S.L.	978 mb			M.S.L.	980 mb			M.S.L.	983 mb			M.S.L.	983 mb			M.S.L.	985 mb			M.S.L.	974 mb			M.S.L.	mb										
	Surf	989 mb			Surf	991 mb			Surf	978 mb			Surf	980 mb			Surf	983 mb			Surf	983 mb			Surf	985 mb			Surf	974 mb			Surf	mb										
	Freezing	883 mb			Freezing	910 mb			Freezing	900 mb			Freezing	905 mb			Freezing	900 mb			Freezing	910 mb			Freezing	905 mb			Freezing	870 mb			Freezing	mb										
Pressure	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. 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	-	43	33	235 23	-	43	30	210 18	-	43	37	195 37	-	41	39	205 32	-	43	39	204 20	-	43	39	190 10	-	45	33	145 20	-	44	42	090 40	Surf										
1000	-2.9	40	28	240 24	-2.5	39	38	216 21	-5.9	39	31	179 33	-5.4	37	31	194 33	-4.5	39	35	187 16	-4.3	37	31	186 16	-4.1	35	26	146 21	-7.0	41	37	093 36	1000											
950	25.3	34	24	240 24	25.7	29	25	218 24	22.3	32	25	177 36	22.6	31	25	196 29	23.5	32	29	182 20	23.5	30	23	167 17	24.0	31	19	148 21	21.2	35	30	101 42	950											
900	27	14	238 25	24	21	22	226 24	21	26	19	175 36	26	21	197 31	26	23	180 23	23.5	30	23	180 23	22	12	155 21	22	12	155 23	30	25	110 42	900													
850	55.5	20	08	237 25	56.2	18	13	248 24	52.8	20	11	172 37	53.0	21	16	198 33	54.0	19	15	189 22	53.9	14	01	161 21	54.3	15	05	165 27	52.0	26	21	124 43	850											
800	13	-1	237 24	12	04	222 18	13	07	175 38	15	10	199 33	13	07	194 18	09	-5	161 19	09	00	151 25	21	14	141 42	21	14	141 42	21	14	141 42	21	14	141 42	750										
750	89	-5	236 24	89	8	05	216 20	86	06	-9	184 35	86	8	09	03	200 32	87	6	07	156 17	87	2	02	157 13	87	7	07	-8	204 24	86	2	15	06	150 32	700									
700	-2	-2	238 25	-2	-2	215 23	-2	-2	185 30	-1	-1	200 33	-1	-1	192 17	-6	-6	154 20	-6	-6	154 20	01	-21	206 25	08	-1	146 20	08	-1	146 20	08	-1	146 20	700										
650	127	-11	33	238 23	127	-8	28	215 21	124	-11	29	186 30	125	-8	14	202 31	125	-10	19	188 22	125	-15	-26	152 24	126	-4	18	208 24	125	00	-11	150 17	650											
600	-22	-38	238 18	-16	-42	233 28	-26	-31	187 26	-17	-23	205 31	-21	-30	184 25	-25	-35	150 27	-13	-23	215 27	-8	-26	121 17	-8	-26	121 17	-8	-26	121 17	-8	-26	121 17	600										
550	170	-32	-46	238 15	171	-23	-45	284 43	167	-30	-44	189 24	168	-27	-35	205 31	168	-32	-40	175 26	167	-36	-46	151 23	169	-24	-35	232 33	169	-19	-21	102 11	550											
500	-42	238 15	-32	-50	288 66	-42	238 15	-32	-50	288 66	-42	238 15	-32	-50	288 66	-42	238 15	-32	-50	288 66	-42	238 15	-32	-50	288 66	-42	238 15	-32	-50	288 66	-42	238 15	-32	-50	500									
450	220	-47	269 21	222	-41	271 66	217	-56	193 25	218	-52	205 28	218	-55	205 28	218	-55	205 28	218	-55	205 28	218	-55	205 28	218	-55	205 28	218	-55	205 28	218	-55	205 28	450										
400	-54	294 37	-51	272 62	-69	187 27	-69	187 27	-69	187 27	-69	187 27	-69	187 27	-69	187 27	-69	187 27	-69	187 27	-69	187 27	-69	187 27	-69	187 27	-69	187 27	-69	187 27	-69	187 27	400											
350	282	-50	293 41	284	-50	278 72	277	-67	189 36	279	-63	206 27	278	-63	173 21	278	-60	178 21	281	-68	247 54	281	-68	247 54	281	-68	247 54	281	-68	247 54	281	-68	247 54	350										
300	-49	286 41	-56	266 63	-57	196 37	-57	196 37	-57	196 37	-57	196 37	-57	196 37	-57	196 37	-57	196 37	-57	196 37	-57	196 37	-57	196 37	-57	196 37	-57	196 37	-57	196 37	-57	196 37	300											
250	371	-48	287 34	372	-51	264 56	364	-54	197 27	366	-53	196 15	365	-53	201 13	365	-55	248 38	366	-59	251 50	366	-59	251 50	366	-59	251 50	366	-59	251 50	366	-59	251 50	250										
200	-48	270 33	-52	267 48	-55	203 33	-53	210 22	-54	231 31	-53	210 22	-54	231 31	-53	210 22	-54	231 31	-53	210 22	-54	231 31	-53	210 22	-54	231 31	-53	210 22	-54	231 31	-53	210 22	200											
150	-45	265 37	-53	268 48	-54	205 26	-52	212 31	-54	244 30	-53	212 31	-54	244 30	-53	212 31	-54	244 30	-53	212 31	-54	244 30	-53	212 31	-54	244 30	-53	212 31	-54	244 30	-53	212 31	150											
100	-46	263 35	-51	268 38	-54	209 27	-52	215 36	-54	242 48	-53	215 36	-54	242 48	-53	215 36	-54	242 48	-53	215 36	-54	242 48	-53	215 36	-54	242 48	-53	215 36	-54	242 48	-53	215 36	100											
110	-41	265 30	-51	274 36	-53	206 23	-52	247 26	-53	243 33	-53	247 26	-53	243 33	-53	247 26	-53	243 33	-53	247 26	-53	243 33	-53	247 26	-53	243 33	-53	247 26	-53	243 33	-53	247 26	110											
100	524	-39	265 31	523	-48	274 42	514	-52	200 30	517	-51	243 33	(115)	514	-52	200 30	517	-51	243 33	(115)	514	-52	200 30	517	-51	243 33	(115)	514	-52	200 30	517	-51	243 33	100										
90	-41	265 33	-46	264 36	-46	200 30	-46	264 36	-46	200 30	-46	264 36	-46	200 30	-46	264 36	-46	200 30	-46	264 36	-46	200 30	-46	264 36	-46	200 30	-46	264 36	-46	200 30	-46	264 36	90											
80	-38	265 33	-41	264 36	-41	200 30	-38	264 36	-41	200 30	-38	264 36	-41	200 30	-38	264 36	-41	200 30	-38	264 36	-41	200 30	-38	264 36	-41	200 30	-38	264 36	-41	200 30	-38	264 36	80											
70	-37	265 30	-38	264 36	-40	200 30	-37	265 30	-38	264 36	-40	200 30	-37	265 30	-38	264 36	-40	200 30	-37	265 30	-38	264 36	-40	200 30	-37	265 30	-38	264 36	-40	200 30	-37	265 30	70											
60	-36	265 18	-36	264 36	-36	200 30	-36	265 18	-36	264 36	-36	200 30	-36	265 18	-36	264 36	-36	200 30	-36	265 18	-36	264 36	-36	200 30	-36	265 18	-36	264 36	-36	200 30	-36	265 18	60											
(50)	-26	265 15	(64)	(64)	(50)	-29	(48)	-29	(50)	-29	(48)	-29	(50)	-29	(48)	-29	(50)	-29	(48)	-29	(50)	-29	(48)	-29	(50)	-29	(48)	-29	(50)	-29	(48)	-29	(50)	-29	(48)	-29								
Inversion	440ms-45°-430ms-42°				Inversion	991ms-43°-979ms-44°				Isotermal	803-796ms-20°				Inversion	440ms-45°-430ms-42°				Inversion	991ms-43°-979ms-44°				Isotermal	803-796ms-20°				Inversion	440ms-45°-430ms-42°				Inversion	991ms-43°-979ms-44°				Isotermal	803-796ms-20°			
Tropopause	I 357 ms -55° 24400'				Tropopause	II 328 ms -55° 26500'				Tropopause	I 321 ms -72° 26200'				Tropopause	II 350ms -65° 24400'				Tropopause	I 327 ms -70° 25900'				Tropopause	II 400 ms -56° 21600'				Tropopause	II 296 ms -69° 28400'				Tropopause	II 348 ms -58° 24600'				Tropopause				

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

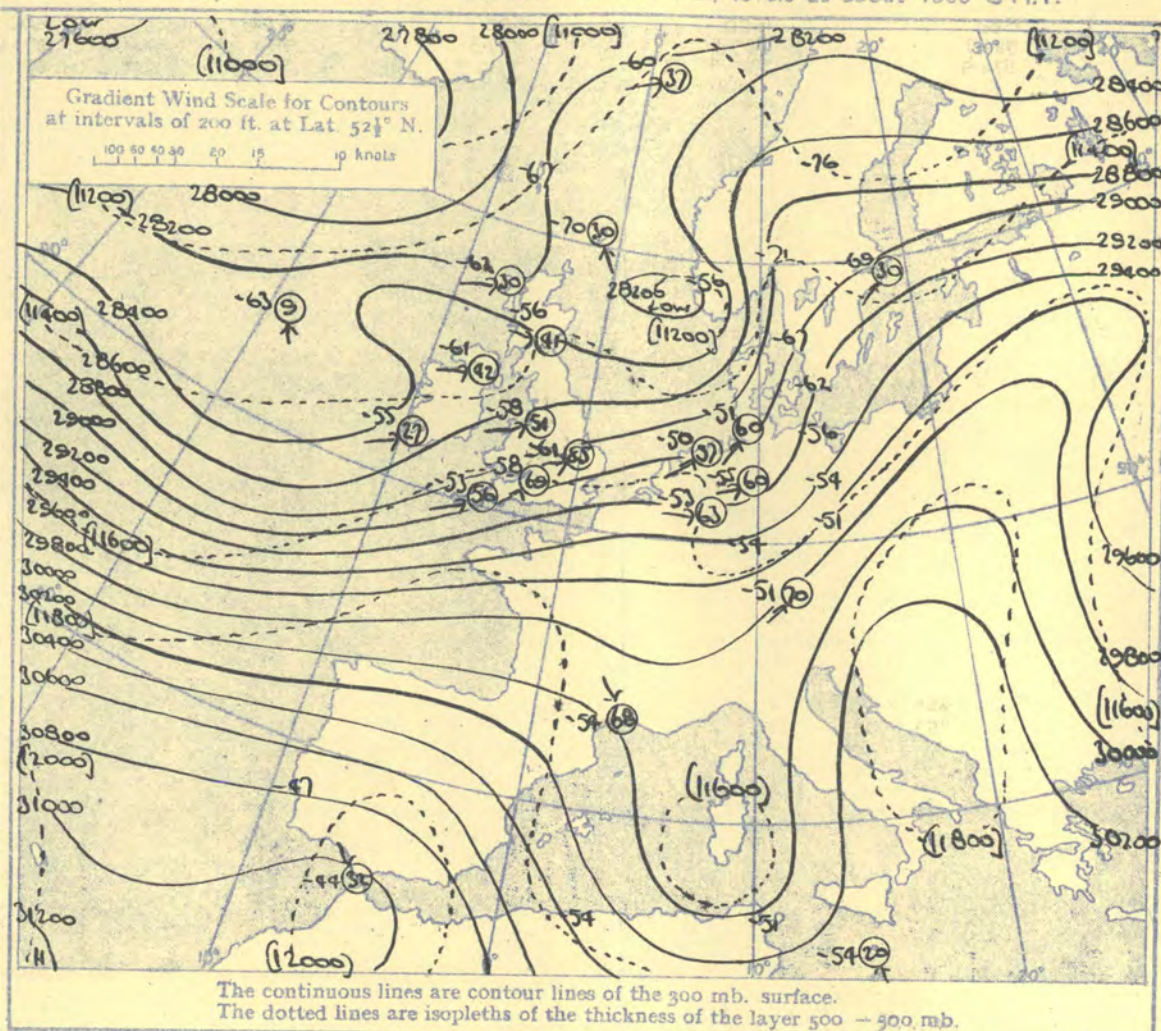
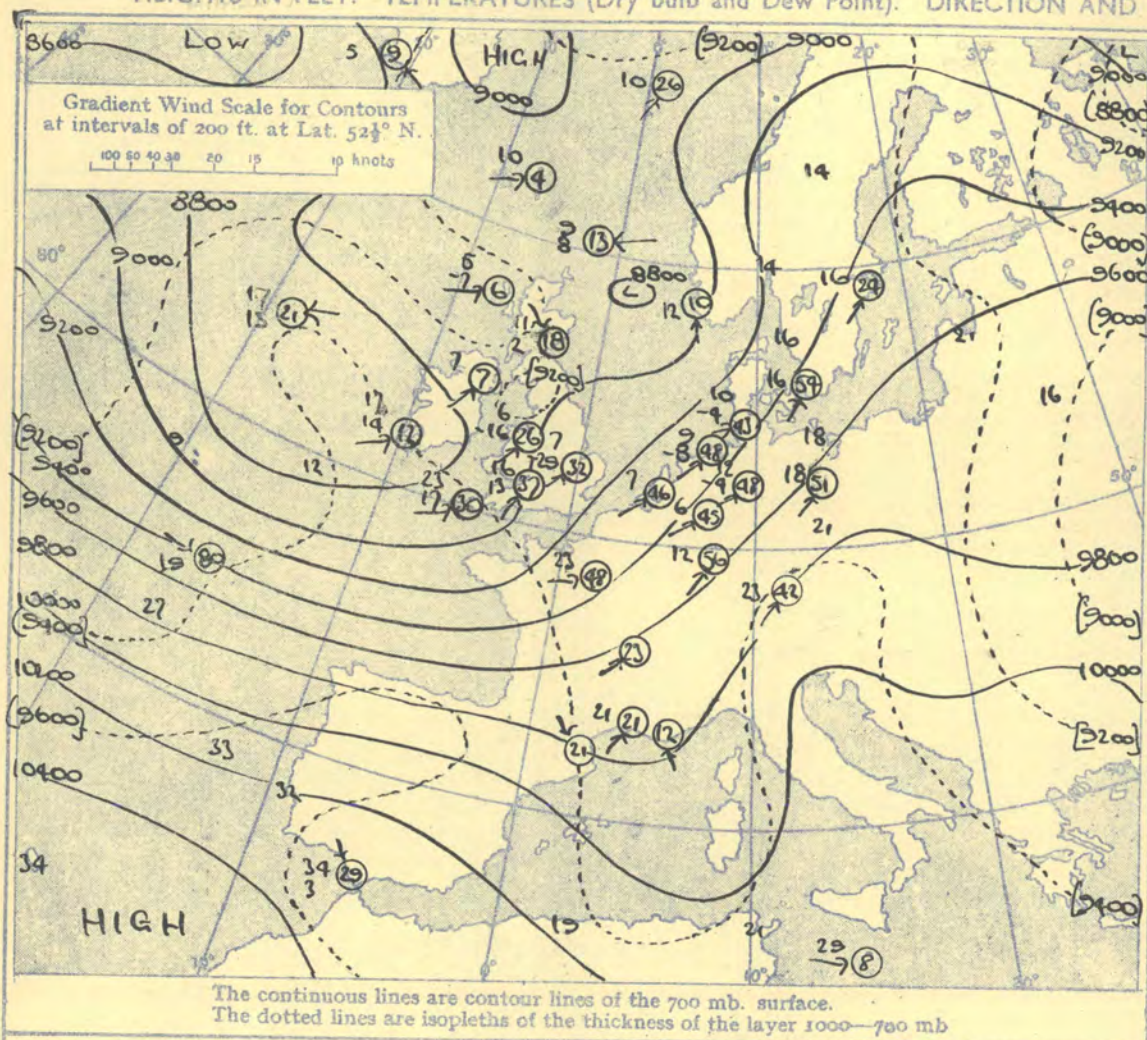
Sunday 5th February 1950

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																																																																																																																																																																																																																																																																																									
Pressure mb	Time M.S.L. Surf Freezing	0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		Time M.S.L. Surf Freezing																																																																																																																																																																																																																																																																																																																																																													
		997.5	mb	994.7	mb	997.1	mb	997.6	mb	994.0	mb	996.2	mb	989.6	mb	996.2	mb	980.0	mb	1002.5	mb	997.4	mb	996	mb	996	mb	996	mb	996	mb																																																																																																																																																																																																																																																																																																																																																																
		987.5	mb	992.5	mb	996.3	mb	988.8	mb	989.6	mb	989.6	mb	989.6	mb	989.6	mb	989.6	mb	989.6	mb	989.6	mb	989.6	mb	989.6	mb	989.6	mb	989.6	mb	989.6	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	40	37	191 13	0.5	36	35	Calm	0.2	37	36		2.3	34	30	250 03		1.2	45	41	160 10	4.4	39	37	260 25	2.9	41	35	270 15	0.3	35	31	140 08	Surf																																																																																																																																																																																																																																																																																																																																																													
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950		39	31	207 30		36	32	217 20		32	32			34	29	293 10																		950																																																																																																																																																																																																																																																																																																																																																													
900	27.3	31	27	206 27	26.6	31	24	225 21	26.7	25	25		27.1	31	25	304 11		26.5	35	31	199 31	26.9	29	28	280 44	28.7	32	27	268 28	27.2	32	23	210 17	900																																																																																																																																																																																																																																																																																																																																																													
850		26	13	200 28		24	17	228 24		22	21			25	17	320 13																		850																																																																																																																																																																																																																																																																																																																																																													
800	57.8	20	04	202 31	57.0	19	08	226 24	56.9	18	17		57.6	19	12	315 12		57.4	25	21	190 36	57.3	20	16	278 43	59.1	19	15	264 28	57.6	18	10	210 20	800																																																																																																																																																																																																																																																																																																																																																													
750		14	-05	207 34		14	-02	215 20		14	12			15	07	306 11																		750																																																																																																																																																																																																																																																																																																																																																													
700	21.5	07	-17	212 37	20.7	07	-15	204 18	20.6	09	07		21.3	08	-4	272 08		21.5	13	01	185 34	21.2	12	04	256 35	22.7	07	-10	265 29	21.1	5	-13	700																																																																																																																																																																																																																																																																																																																																																														
650		00	-23	211 42		-01	-23	199 18		02	-01			01	-7	232 07																		650																																																																																																																																																																																																																																																																																																																																																													
600	129	-08	-22	209 44	128	-10	-27	194 20	128	-05	-08		129	-6	-12	190 07		130	-3	-14	187 37	129	-5	-9	245 32	131	-9	-33	261 32	129	0	-28	600																																																																																																																																																																																																																																																																																																																																																														
550		-17	-28	210 43		-18	-31	192 33		-11	-15			-13	-19	168 15																		550																																																																																																																																																																																																																																																																																																																																																													
500		172	-25	215 49	171	-28	-36	193 44	172	-21	-26		173	-21	-27	188 28		173	-23	-34	183 40	173	-23	-32	253 30	174	-16	-50	281 51	173	-19	-38	500																																																																																																																																																																																																																																																																																																																																																														
450		-35	-47	215 58		-38	-49	195 49		-31	-36			-30	-36	182 39																		450																																																																																																																																																																																																																																																																																																																																																													
400	223	-46		215 65	222	-47		198 58	223	-44			224	-40	-47	176 44		224	-42	-46	183 39	223	-48		249 25	226	-32	-59	291 69	224	-39	-54	400																																																																																																																																																																																																																																																																																																																																																														
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300	284	-72		219 84	283	-71		193 66	285	-75			286	-63		183 39		287	-53															300																																																																																																																																																																																																																																																																																																																																																													
250		-65		223 39		-62		202 40		-69				-61		240 29																		250																																																																																																																																																																																																																																																																																																																																																													
200	369	-62		220 39	368	-58			369	-61								374	-56															200																																																																																																																																																																																																																																																																																																																																																													
170		-61		231 32															-59															170																																																																																																																																																																																																																																																																																																																																																													
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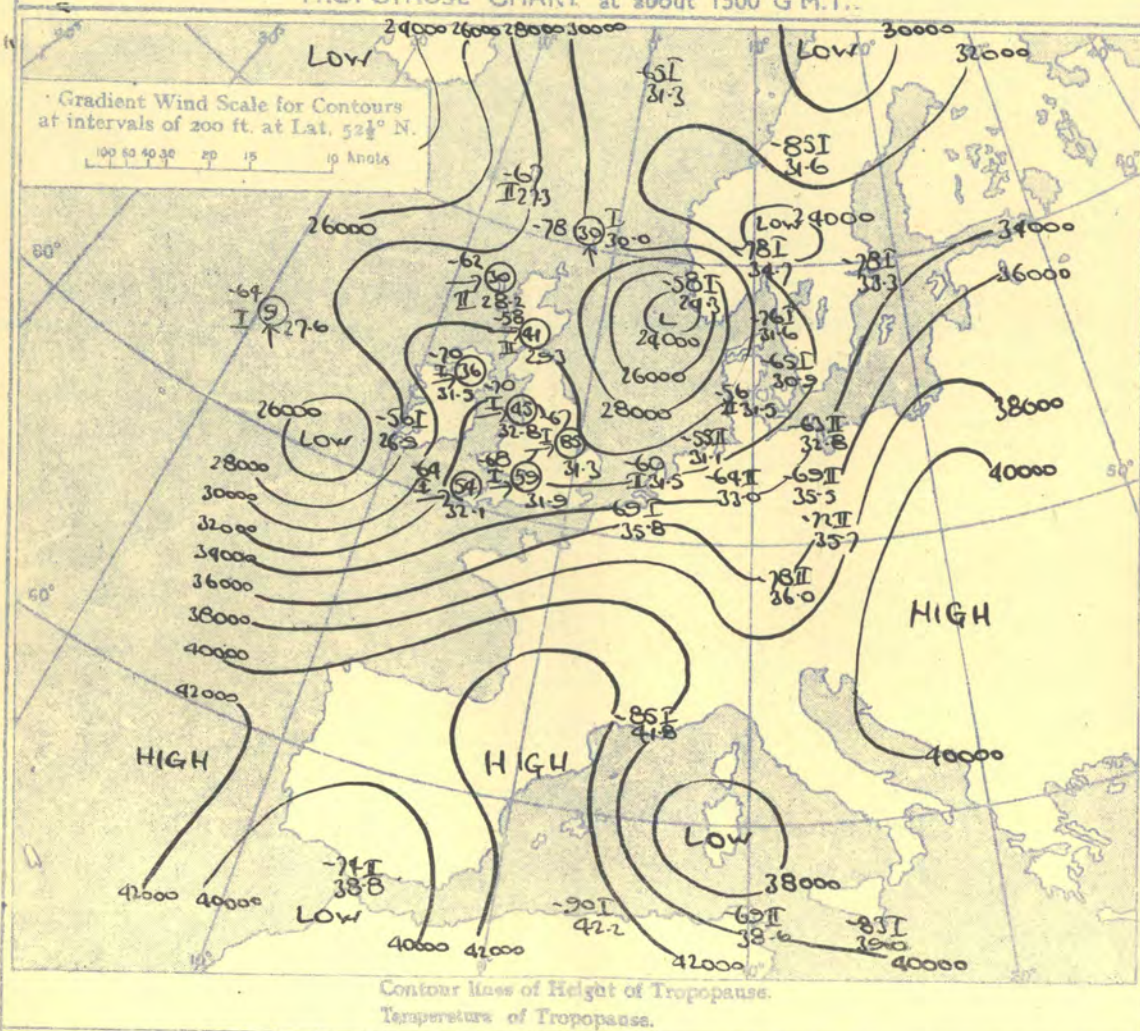
Sunday 5th. February 1950C

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION					
Pressure	Time M.S.L. Surf Freezing	1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		Time M.S.L. 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	mb	mb	mb											
Surf	02-7	38	38	360	15	00-5	44	35	250	03	43	34	270	20	01-3	41	30	150	04	00-6	45	29	190	10	01-2	45	35	180	16	4-4	40	38	180	20	02-9	43	41	135	30	00-3	43	40	Surf
1000	03-6	36	36	310	18	02-9	38	32	262	09	38	30	303	18	02-3	38	24	195	14	02-3	38	24	195	14	01-1	39	31	196	20	4-4	40	38	180	20	02-9	43	41	135	30	00-3	43	40	1000
950		36	36	310	18	02-9	38	32	262	09	38	30	303	18	02-3	38	24	195	14	02-3	38	24	195	14	01-1	39	31	196	20	4-4	40	38	180	20	02-9	43	41	135	30	00-3	43	40	950
900	24-3	32	32	075	24	25-2	31	22	265	09	31	26	311	17	25-3	29	17	177	09	25-8	30	19	218	12	27-0	32	27	206	25	26-1	31	29	162	33	23-3	38	35	171	36	21-5	41	35	900
850		29	29	082	12	25	16	267	07	25	20	310	15	25-10	185	09	24	09	231	14	24	09	231	14	25	20	218	29	27	25	168	39	37	36	200	35	24	33	850				
800	54-9	25	25	077	14	55-6	18	11	267	06	21	14	309	18	55-9	20	02	201	07	56-2	20	01	232	22	57-6	20	08	223	30	56-5	22	21	179	43	54-6	33	30	231	31	52-6	28	27	800
750		16	16	080	15	13	02	269	06	17	07	307	20	13	-8	208	06	13	-11	218	27	15	-21	224	30	19	187	44	19	18	187	44	29	25	240	30	22	21	750				
700	88-9	07	08	086	13	09-1	05	-07	263	06	11	02	300	18	09-6	07	-19	215	07	90-0	06	-16	218	24	91-4	07	-29	226	32	90-7	16	13	194	37	89-4	23	17	233	30	87-0	17	14	700
650		02	01	089	13	09-1	05	-07	263	06	11	02	300	18	09-6	07	-19	215	07	90-0	06	-16	218	24	91-4	07	-29	226	32	90-7	16	13	194	37	89-4	23	17	233	30	87-0	17	14	650
600	127	05	07	111	12	127	-11	-25	246	09	-04	-11																															

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.



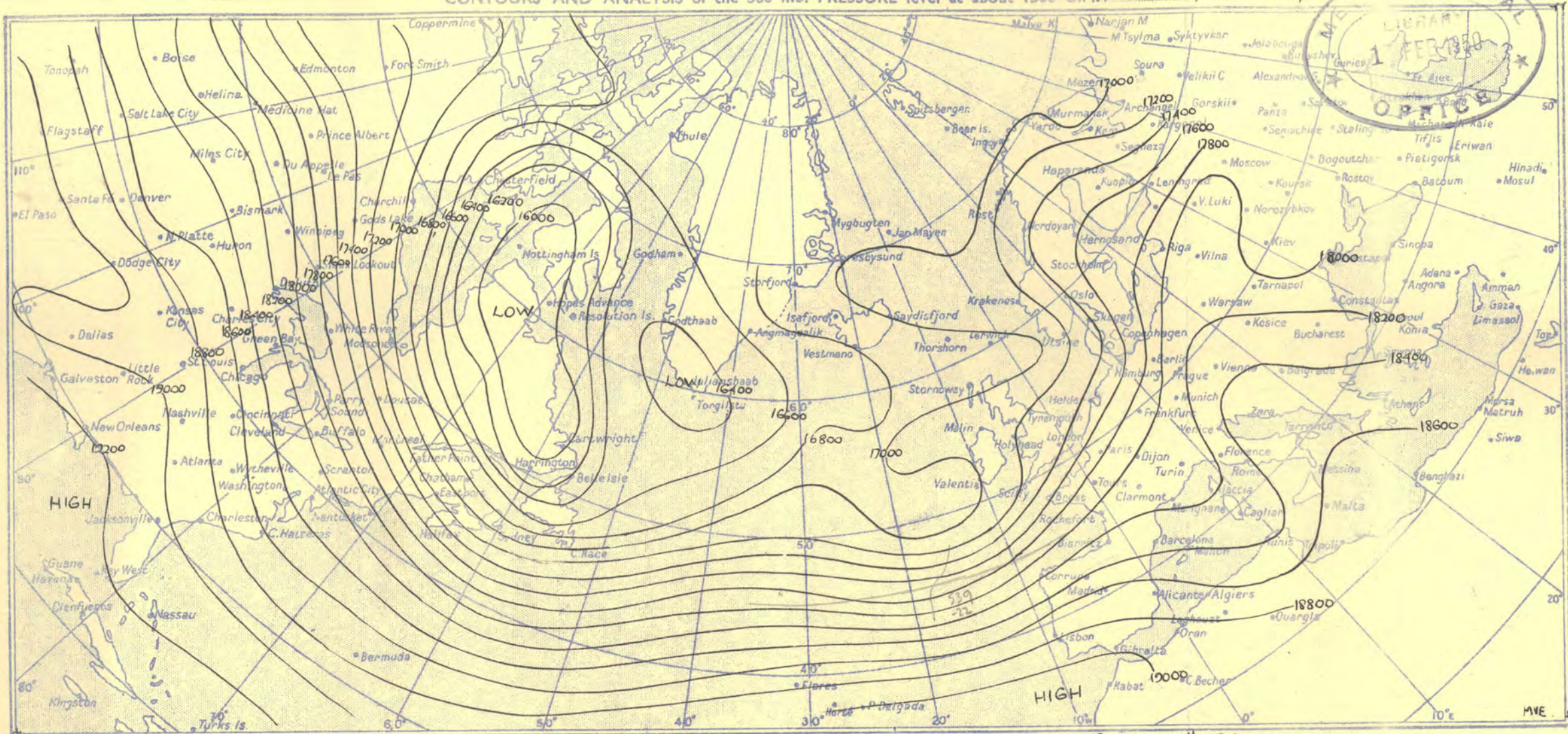
NOTES ON THE AEROLOGICAL SITUATION.

A cold trough became stationary over the British Isles, West France and the Western Mediterranean.

A warm wedge developed on the Atlantic, associated with a deepening depression moving East from the Newfoundland region.

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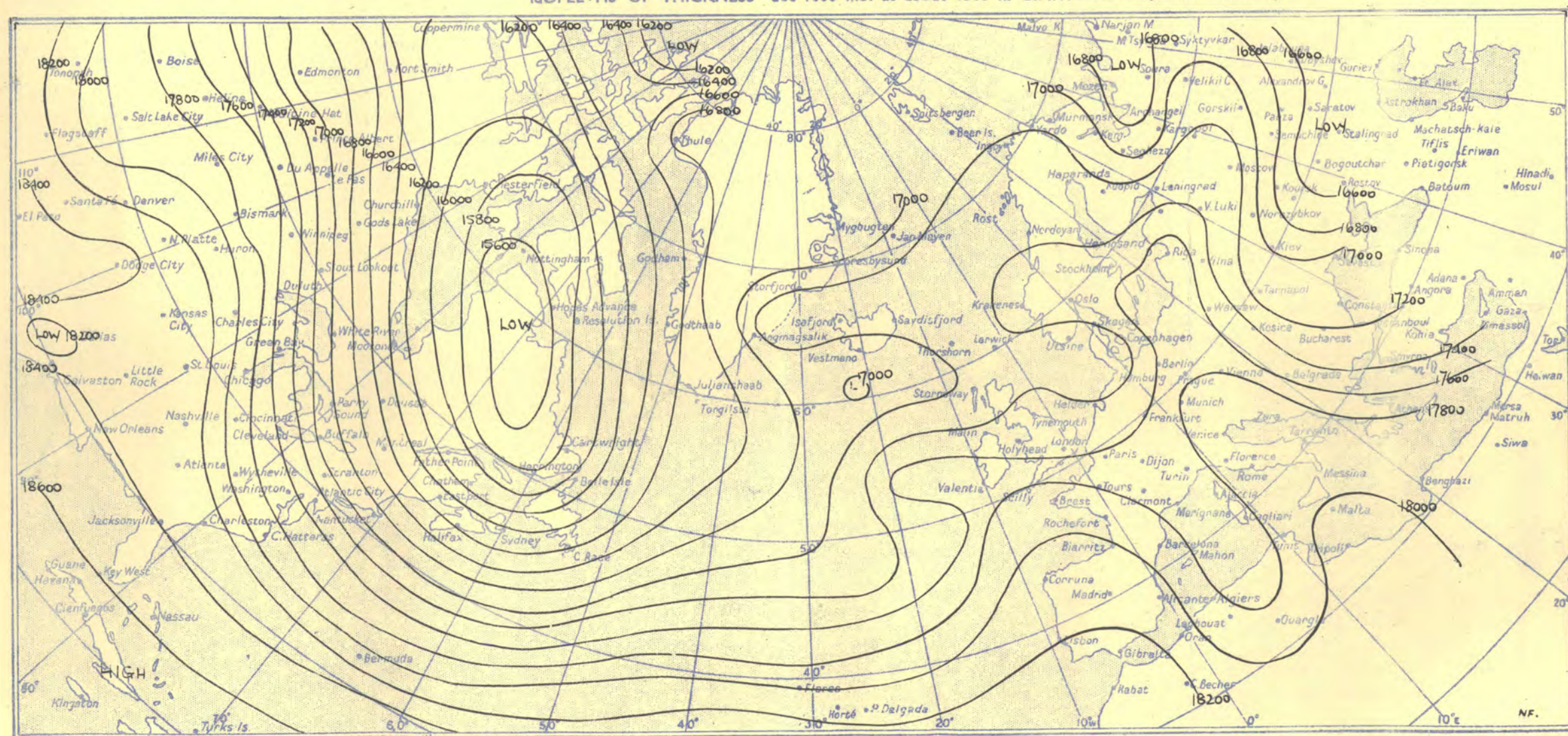
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



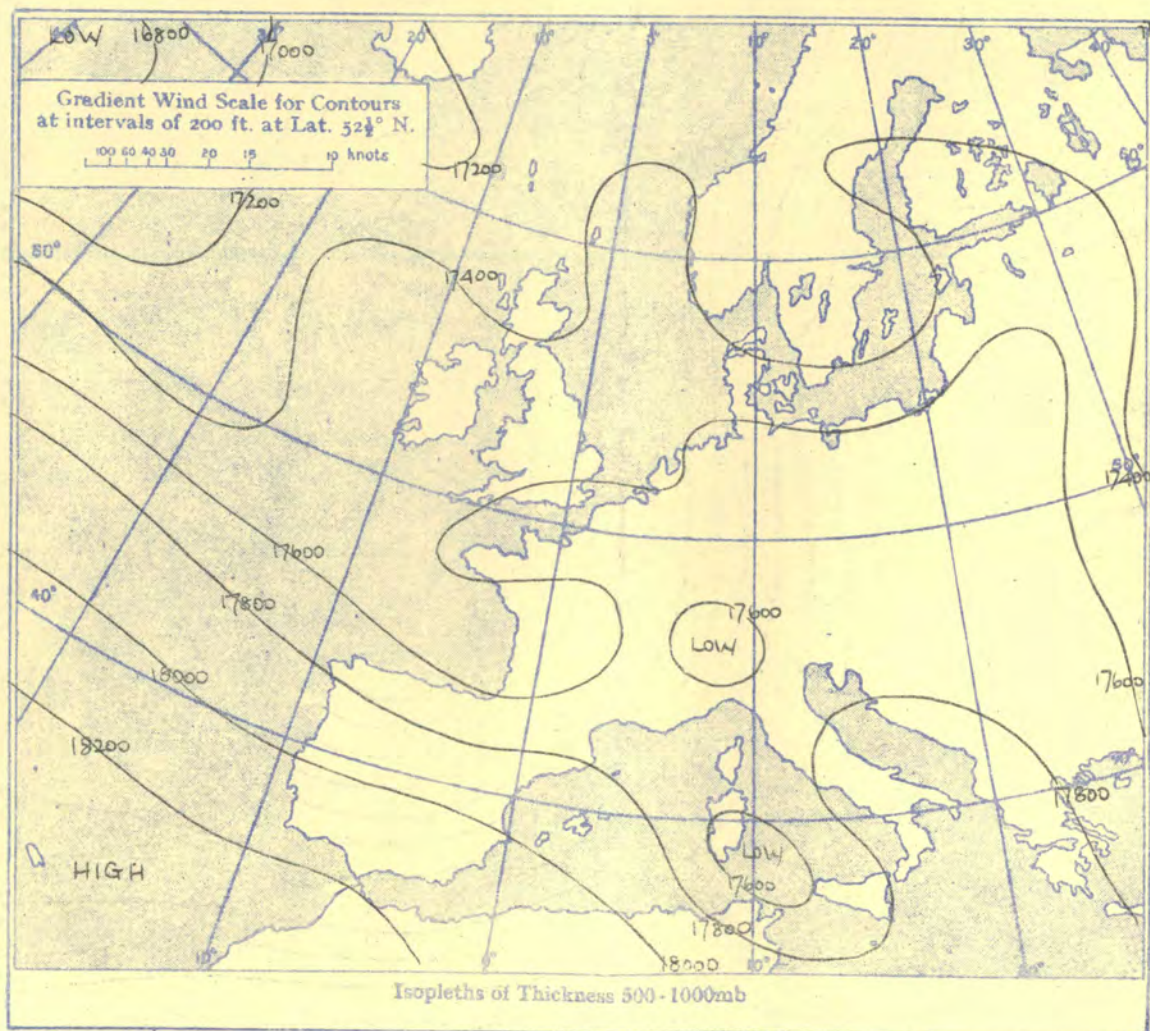
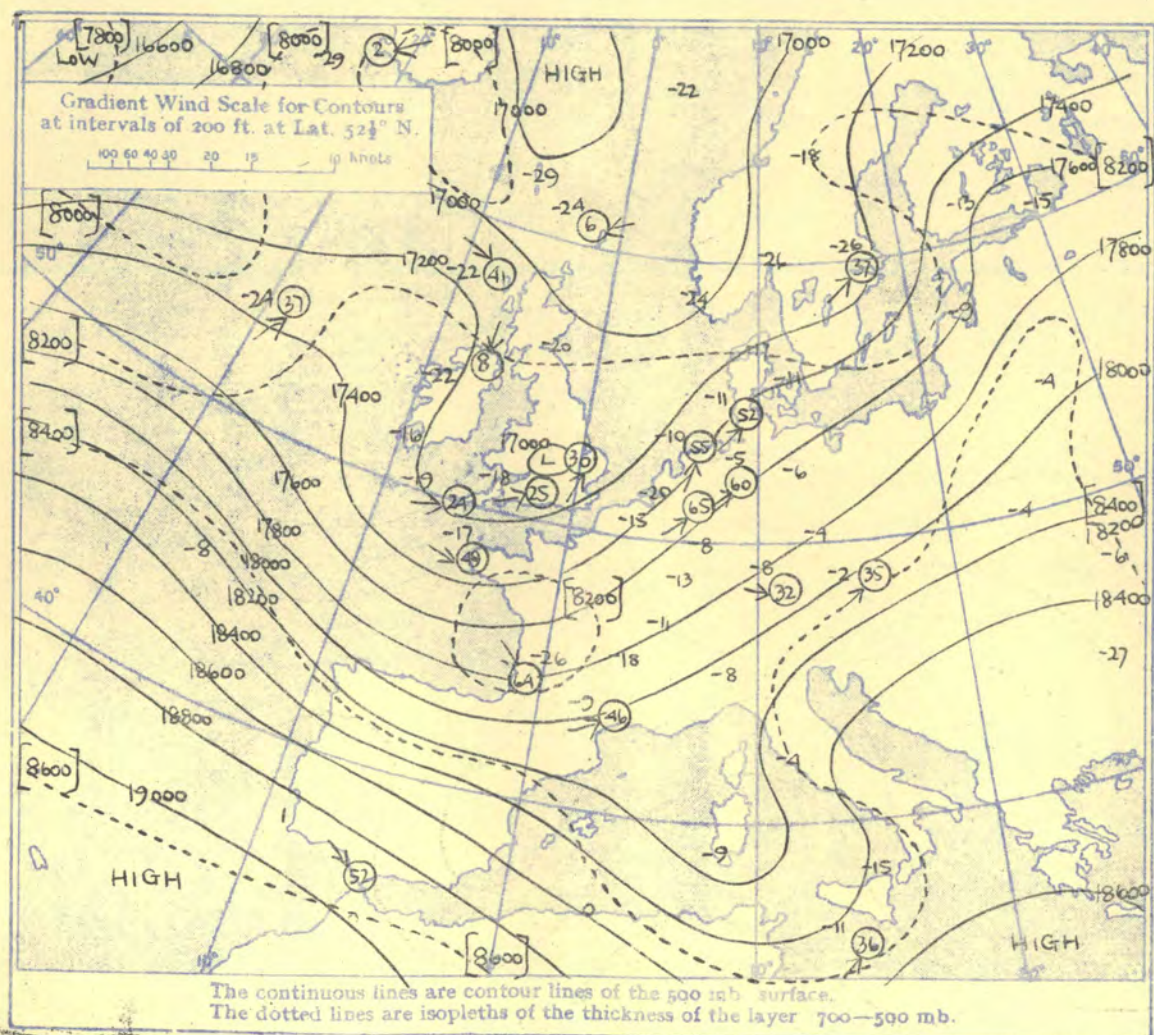
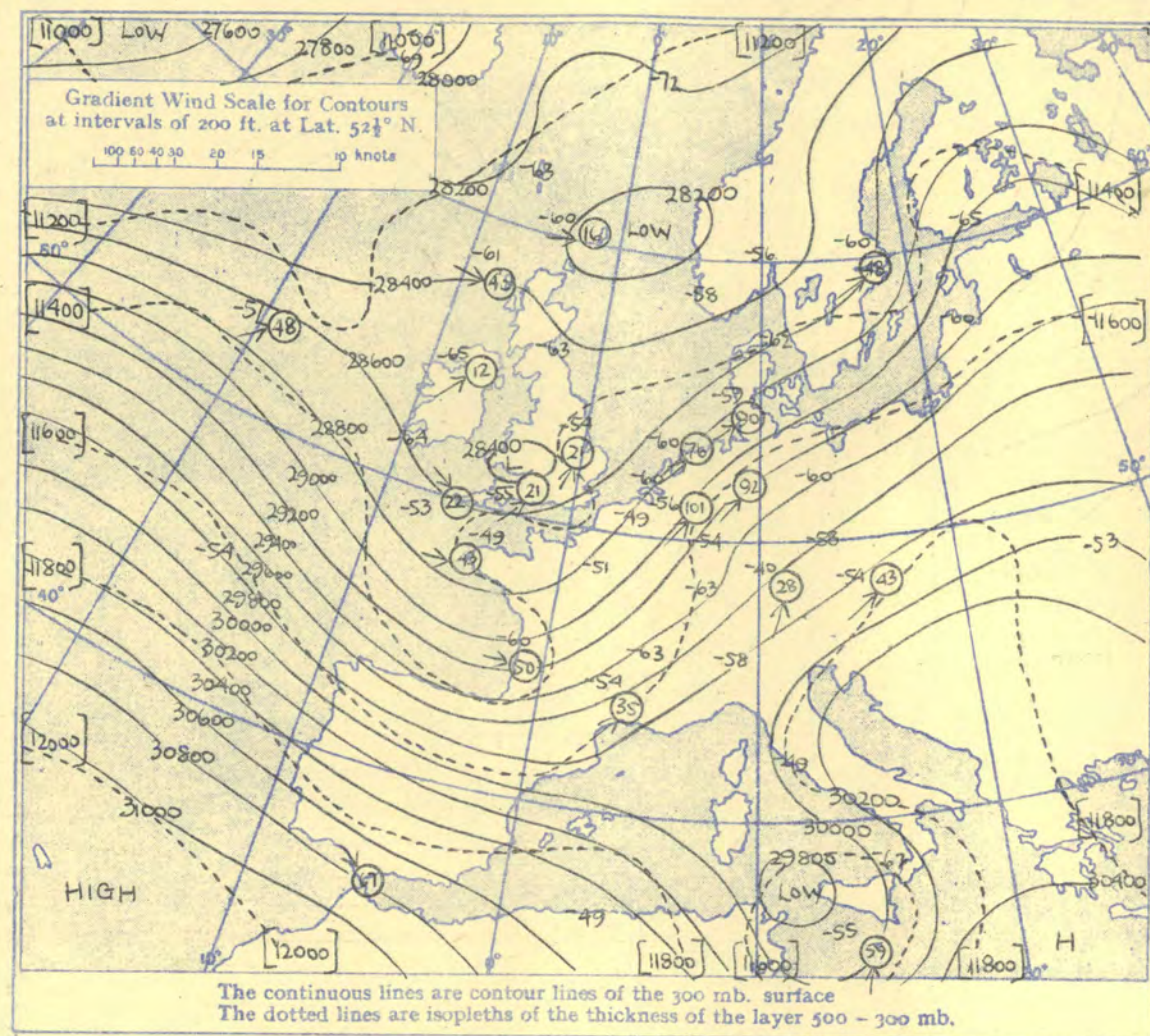
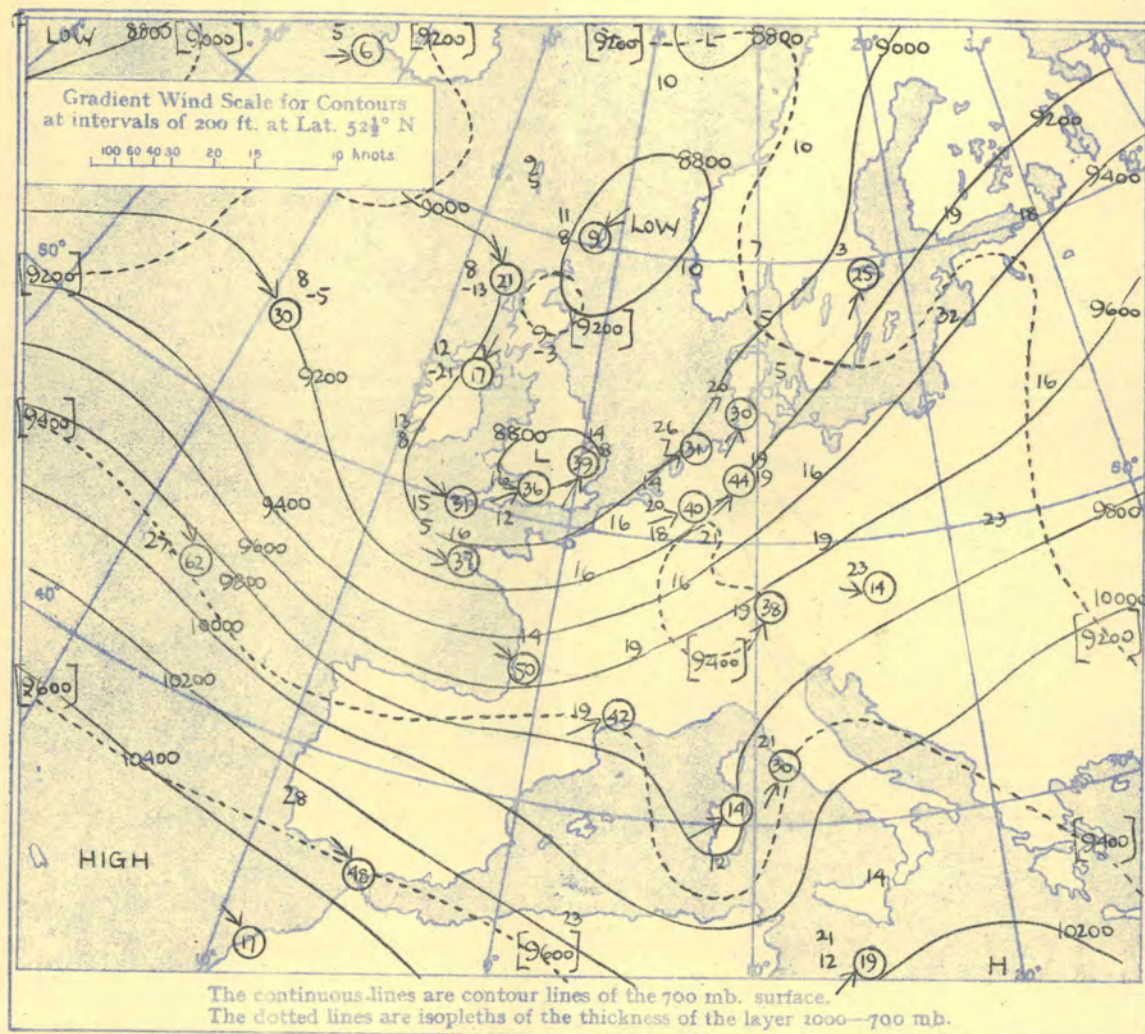
ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T.

Sunday 5th February

1950.



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 0300 G.M.T.



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

[illegible]

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

[illegible]

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

Ship	Weather Observer				Weather Observer				Weather Explorer				Weather Explorer				Weather Observer				Weather Observer				Weather Explorer				Weather Explorer				Ship																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Lat/Long	59° 5' N 20° 2'				60° 4' N 20° 2'				53° 9' N 19° 2' W				54° N 19° 1' W				60° 4' N 20° 2'				60° 4' N 20° 2'				53° 9' N 19° 2' W				54° N 19° 2' W				Lat/Long																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Pressure	15hrs 5 th G.M.T.				2hrs 5 th G.M.T.				15hrs 5 th G.M.T.				2hrs 5 th G.M.T.				08hrs 6 th G.M.T.				08hrs 6 th G.M.T.				08hrs 6 th G.M.T.				08hrs 6 th G.M.T.				G.M.T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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500	167	40	46	184	26	168	33	60243	10	170	46	30	058	13	172	21	323	20	170	26	50286	20	170	32	40	250	19	173	24	27	207	37	175	20	43	303	58	—	500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Monday 6th February. 1950

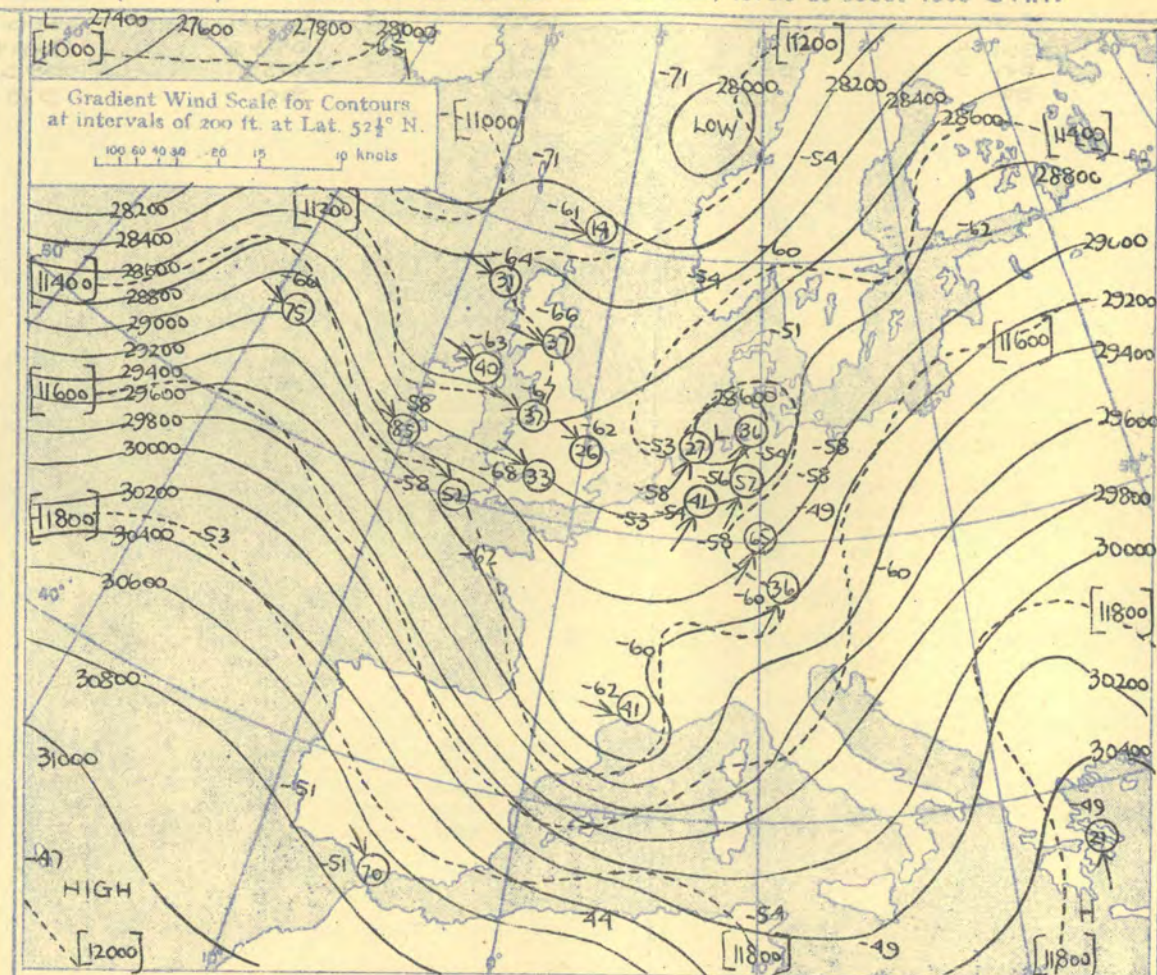
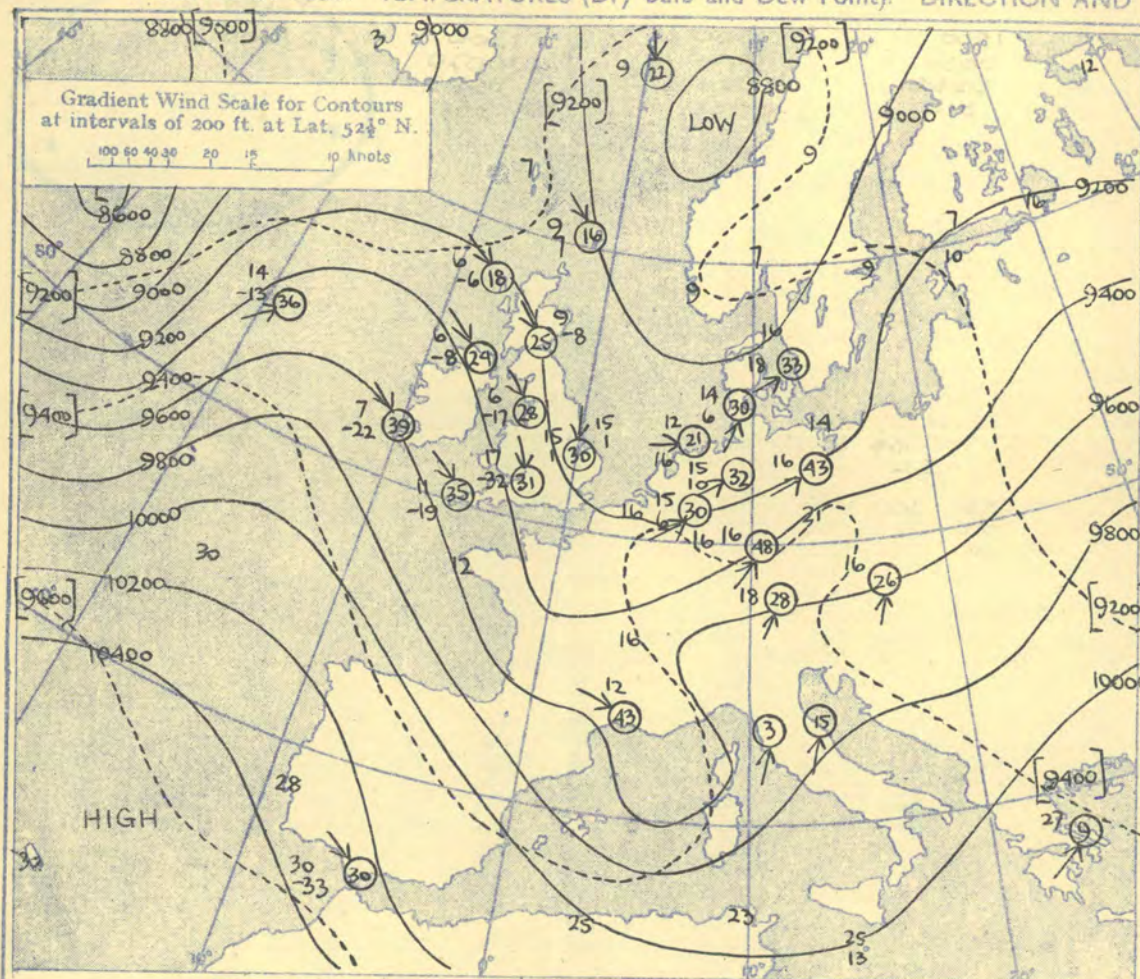
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																																																																																																																																																																																																																																																																																																																														
Pressure mb	Time M.S.L. Surf Freezing	0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		Time M.S.L. Surf Freezing																																																																																																																																																																																																																																																																																																																																																																																																		
		Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	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.																																																																																																																																																																																																																																																																																																																																																																																																				
Surf	2.7	39	39	387	13	0.5	34	32	290	05	0.2	32	28	2.3	30	27	020	10	1.2	43	42	160	12	4.4	44	42	230	13	2.9	46	42	270	18	0.3	40	36	010	18																																																																																																																																																																																																																																																																																																																																																																																														
1000	52	37	37	343	15	25.5	32	29	311	19	25.0	32	28	25.1	30	16	023	22	25.1	30	16	023	22	23.0	37	35	253	30	24.3	37	35	281	39	25.2	31	29	032	23																																																																																																																																																																																																																																																																																																																																																																																														
950	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
900	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
850	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
800	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
750	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
700	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
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600	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
550	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
500	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
450	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
400	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
350	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
300	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
250	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
200	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
170	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
150	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
130	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
110	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
100	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
90	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
80	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
70	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
60	22.8	33	33	037	10	26.1	26	21	322	18	26.5	19	15	25.5	19	7	030	20	25.5	19	7	030	20	53.7	27	22	217	37	53.9	27	25	253	36	55.2	25	22	282	37	55.9	24	17																																																																																																																																																																																																																																																																																																																																																																																											
Tropopause		335 mb -60° 25.700				327 mb -63° 30.200				330 mb -62° 26.300				330 mb -65° 26.400								326 mb -57° 31.400				334 mb -59° 26.100				327 mb -54° 26.600				338 mb -65° 28.300				Tropopause																																																																																																																																																																																																																																																																																																																																																																																														
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																																																																																																																																																																																																																																																																																																																														
Pressure mb	Time M.S.L. Surf Freezing	0900h		G.M.T.		0900h		G.M.T.		0900h		G.M.T.		0900h		G.M.T.		0900h		G.M.T.		0900h		G.M.T.		0900h		G.M.T.		0900h		G.M.T.		Time M.S.L. Surf Freezing																																																																																																																																																																																																																																																																																																																																																																																																		
		Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	Dew	Temp.	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.																																																																																																																																																																																																																																																																																																																																																																																																				
Surf	2.7	36	36	337	05	0.5	37		299	05				2.3	33	31	320	05	0.6	35	29	010	10	1.2	37	37	200	03	4.4	37	36	320	07	2.9	44	38	360	15																																																																																																																																																																																																																																																																																																																																																																																														

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

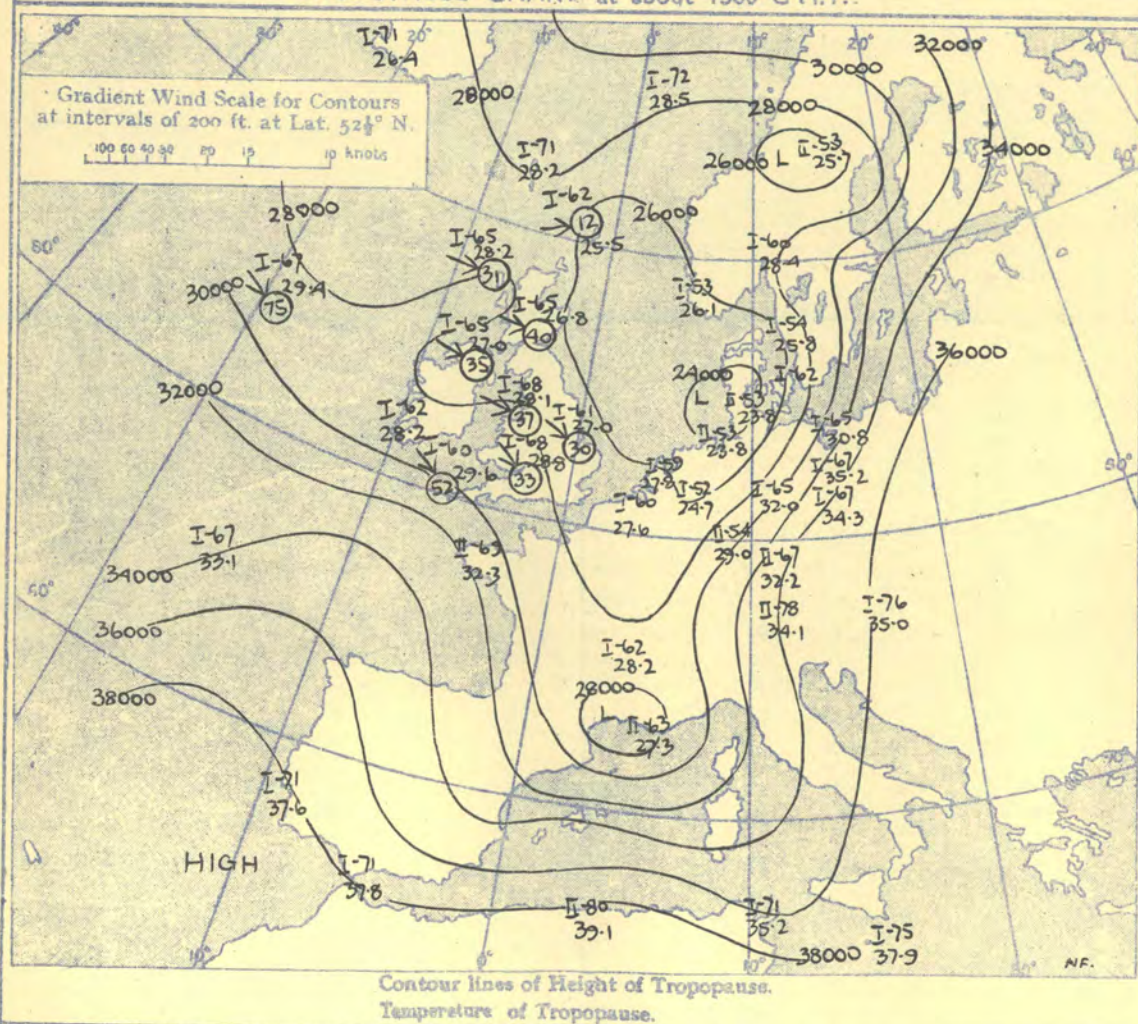
6th February 1950

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION
Pressure	Time	1500			G.M.T.	1500			G.M.T.	1500			G.M.T.	1500			G.M.T.	1500			G.M.T.	1500			G.M.T.	1500			G.M.T.	Time			
	M.S.L.	991.5			mb	998.8			mb	997.3			mb	1003.9			mb	1001.6			mb	995.1			mb	1000.2			mb	M.S.L.			
	Surf	981.5			mb	996.9			mb	996.4			mb	995.1			mb	993.3			mb	996.6			mb	984.2			mb	Surf			
	Freezing	900			mb	908			mb	885			mb	910			mb	935			mb	910			mb	908			mb	Freezing			
Pressure	Height	ft./100			Temp.	°F.			Dew	°F.			Wind	Dir. Vel.			Height	ft./100			Temp.	°F.			Dew	°F.			Wind	Dir. Vel.			Pressure
	mb	02.7			°F.	37			°F.	34			°F.	34			°F.	34			°F.	34			°F.	34			°F.	34			mb
Surf	1000	02.3			°F.	37			°F.	34			°F.	34			°F.	34			°F.	34			°F.	34			°F.	34			Surf
	950	37			°F.	33			°F.	33			°F.	33			°F.	33			°F.	33			°F.	33			°F.	33			950
900	25.7	32			°F.	29			°F.	29			°F.	29			°F.	29			°F.	29			°F.	29			°F.	29			900
	850	27			°F.	22			°F.	24			°F.	15			°F.	30			°F.	18			°F.	24			°F.	15			850
800	56.2	20			°F.	15			°F.	34			°F.	2			°F.	13			°F.	58			°F.	4			°F.	21			800
	750	15			°F.	14			°F.	33			°F.	15			°F.	14			°F.	4			°F.	30			°F.	18			750
700	900	09			°F.	07			°F.	32			°F.	16			°F.	32			°F.	16			°F.	32			°F.	16			700
	650	01			°F.	-1			°F.	32			°F.	15			°F.	2			°F.	13			°F.	30			°F.	18			650
600	12.8	-7			°F.	-10			°F.	32			°F.	13			°F.	130			°F.	-10			°F.	23			°F.	30			600
	550	-17			°F.	-20			°F.	30			°F.	13			°F.	-18			°F.	-32			°F.	30			°F.	27			550
500	171	-28			°F.	-31			°F.	29			°F.	15			°F.	173			°F.	-25			°F.	43			°F.	300			500
	450	-39			°F.	-43			°F.	27			°F.	13			°F.	-35			°F.	-51			°F.	29			°F.	31			450
400	22	-49			°F.	-49			°F.	27			°F.	11			°F.	22			°F.	-46			°F.	28			°F.	37			400
	350	-60			°F.	-60			°F.	24			°F.	10			°F.	-58			°F.	28			°F.	33			°F.	49			350
300	283	-61			°F.	-61			°F.	26			°F.	14			°F.	285			°F.	-64			°F.	27			°F.	31			300
	250	-56			°F.	-56			°F.	26			°F.	25			°F.	-53			°F.	27			°F.	33			°F.	33			250
200	370	-51			°F.	-51			°F.	26			°F.	21			°F.	373			°F.	-48			°F.	27			°F.	31			200
	170	-53			°F.	-53			°F.	26			°F.	24			°F.	-48			°F.	27			°F.	28			°F.	28			170
150	-54	260			°F.	31			°F.	-48			°F.	270			°F.	30			°F.	-52			°F.	276			°F.	31			150
	130	-52			°F.	279			°F.	27			°F.	-51			°F.	279			°F.	31			°F.	-54			°F.	282			130
110	-53	268			°F.	26			°F.	-49			°F.	263			°F.	36			°F.	-52			°F.	284			°F.	30			110
	100	521			°F.	-56			°F.	271			°F.	26			°F.	525			°F.	-46			°F.	266			°F.	36			100
90	-55	272			°F.	30			°F.	-45			°F.	280			°F.	29			°F.	-49			°F.	280			°F.	33			90
	80	-51			°F.	271			°F.	28			°F.	15			°F.	850			°F.	-830			°F.	ms 24			°F.	542			80
70	-52				°F.				°F.				°F.				°F.				°F.				°F.				°F.				70
	60				°F.				°F.				°F.				°F.				°F.				°F.				°F.				60
Tropopause	I 33.7 ms -62°				I 305 ms -65°				I 325 ms -68°				I 322 ms -65°				I 307 ms -68°				I 325 ms -61°				I 300 ms -62°				I 292 ms -60°				Tropopause
	25500'				28200'				26800'				27000'				28100'				27000'				28800'				25600'				
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION
Pressure	Time	2100			G.M.T.	2100			G.M.T.	2100			G.M.T.	2100			G.M.T.	2100			G.M.T.	2100			G.M.T.	2100			G.M.T.	Time			
	M.S.L.	997.7			mb	1002.2			mb	1007.8			mb	1009.0			mb	1005.9			mb	1001.4			mb	1009.3			mb	M.S.L.			
	Surf	987.6			mb	1000.3			mb	999.0			mb	900			mb	891			mb	900			mb	895			mb	Surf			
	Freezing	932			mb	910			mb				mb				mb				mb				mb				mb	Freezing			
Pressure	Height	ft./100			Temp.	°F.			Dew	°F.			Wind	Dir. Vel.			Height	ft./100			Temp.	°F.			Dew	°F.			Wind	Dir. Vel.			Pressure
	mb	02.7			°F.	37			°F.	34			°F.	32			°F.	02.3			°F.	38			°F.	32			°F.	280			mb
Surf	1000	07			°F.	34			°F.	32			°F.	30			°F.	02.0			°F.	37			°F.	31			°F.	285			Surf
	950	34			°F.	32			°F.	30			°F.	29			°F.	29			°F.	32			°F.	27			°F.	290			950
900	27.1	28			°F.	26			°F.	31			°F.	24			°F.	26			°F.	22			°F.	23			°F.	25			900
	850	21			°F.	19			°F.	32			°F.	21			°F.	26			°F.	24			°F.	24			°F.	18			850
800	57.4	19			°F.	-1			°F.	32			°F.	22			°F.	59			°F.	2			°F.	20			°F.	250			800
	750	14			°F.	-7			°F.	32			°F.	22			°F.	14			°F.	13			°F.	25			°F.	15			750
700	91.1	09			°F.	-26			°F.	330			°F.	21			°F.	92			°F.	-9			°F.	08			°F.	256			700
	650	00			°F.	-31			°F.	333			°F.	24			°F.	00			°F.	-3			°F.	263			°F.	19			650
600	12.9	-8			°F.	-38			°F.	334			°F.	18			°F.	131			°F.	-8			°F.	14			°F.	276			600
	550	-18			°F.	-49			°F.	329			°F.	17			°F.	-18			°F.	-23			°F.	267			°F.	21			550
500	172	-23			°F.	-51			°F.	310			°F.	15			°F.	174			°F.	-28			°F.	-33			°F.	258			500
	450	-40			°F.	-54			°F.	298			°F.	17			°F.	-40			°F.	-46			°F.	253			°F.	31			450
400	222	-52			°F.	301			°F.	24			°F.	224			°F.	-52			°F.	260			°F.	30			°F.	30			400
	350	-60			°F.	312			°F.	33			°F.	-62			°F.	274			°F.	31			°F.				°F.				350
300	283	-63			°F.	288			°F.	27			°F.	285			°F.	-57			°F.	296			°F.	44			°F.	44			300
	250	-59			°F.	284			°F.	26			°F.	-57			°F.	291			°F.	41			°F.				°F.				250
200	370	-53			°F.	276			°F.	27			°F.	375			°F.	-56			°F.	310			°F.	47			°F.	43			200
	170	-52			°F.	273			°F.	26			°F.	-54			°F.	310			°F.	43			°F.				°F.				170
150	-53	282			°F.	24			°F.				°F.				°F.	-54			°F.	313			°F.	41			°F.				150
	130	-54			°F.	284			°F.	23			°F.	-56			°F.	287			°F.	26			°F.				°F.				130
110	-54	271			°F.	28			°F.				°F.				°F.	-52			°F.	306			°F.	34			°F.				110
	100	520			°F.	-56			°F.	271			°F.	30			°F.	523			°F.	-52			°F.	283			°F.	34			100
90	-56	281			°F.	31			°F.				°F.				°F.	-52			°F.	306			°F.	34			°F.				90
	80	-53			°F.	284			°F.	32			°F.				°F.	-52			°F.	306			°F.	34			°F.				80
70	-54				°F.				°F.				°F.				°F.	-52			°F.				°F.				°F.				70
	60				°F.				°F.				°F.				°F.	-53			°F.				°F.				°F.				60
Tropopause	I 300 ms -63°				I 328 ms -61°				I 243 ms -70°				I 313 ms -68°				I 315 ms -61°				I 280 ms -65°								Tropopause				
	28300'				25800'				33400'				28000'				26400'				30800'												

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

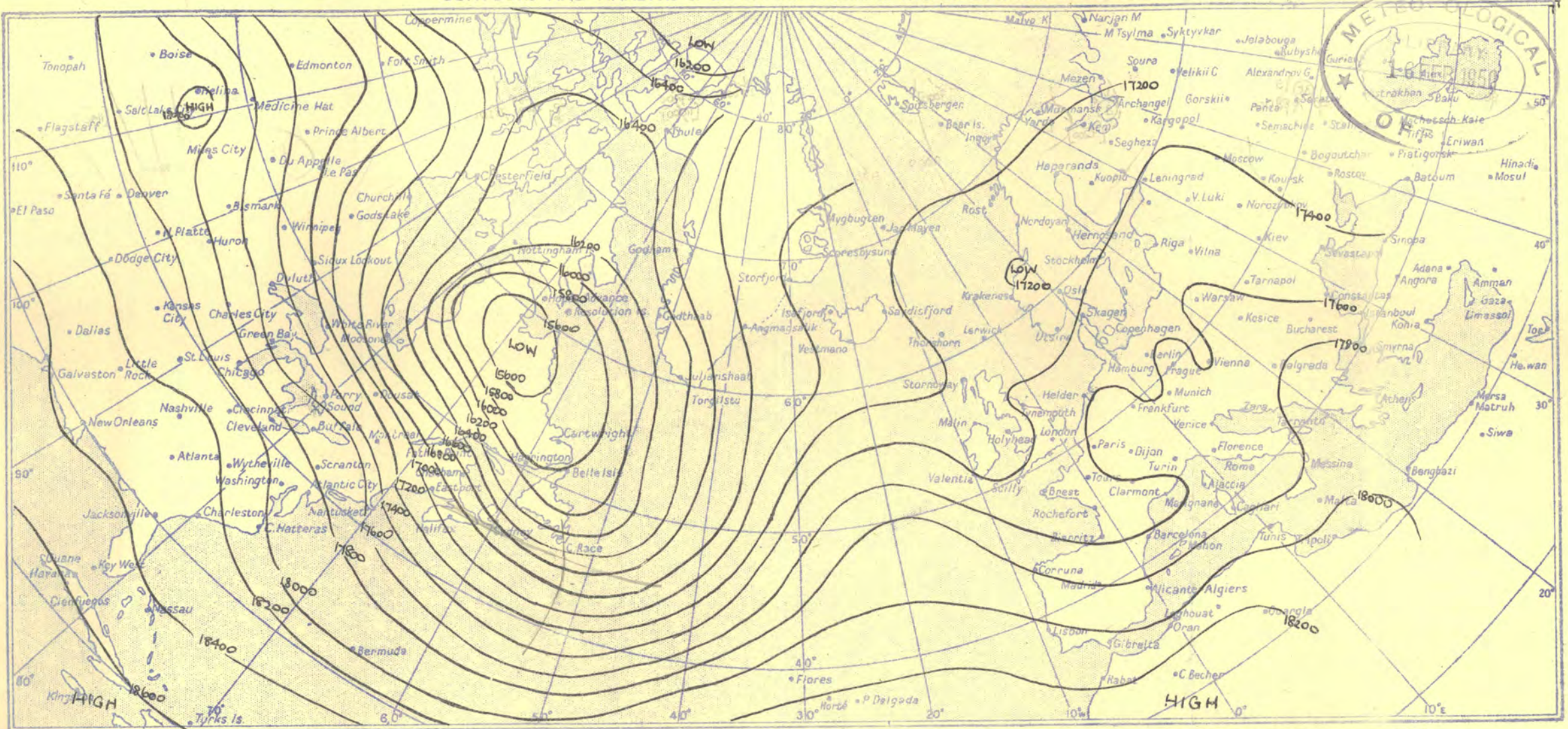


NOTES ON THE AEROLOGICAL SITUATION.

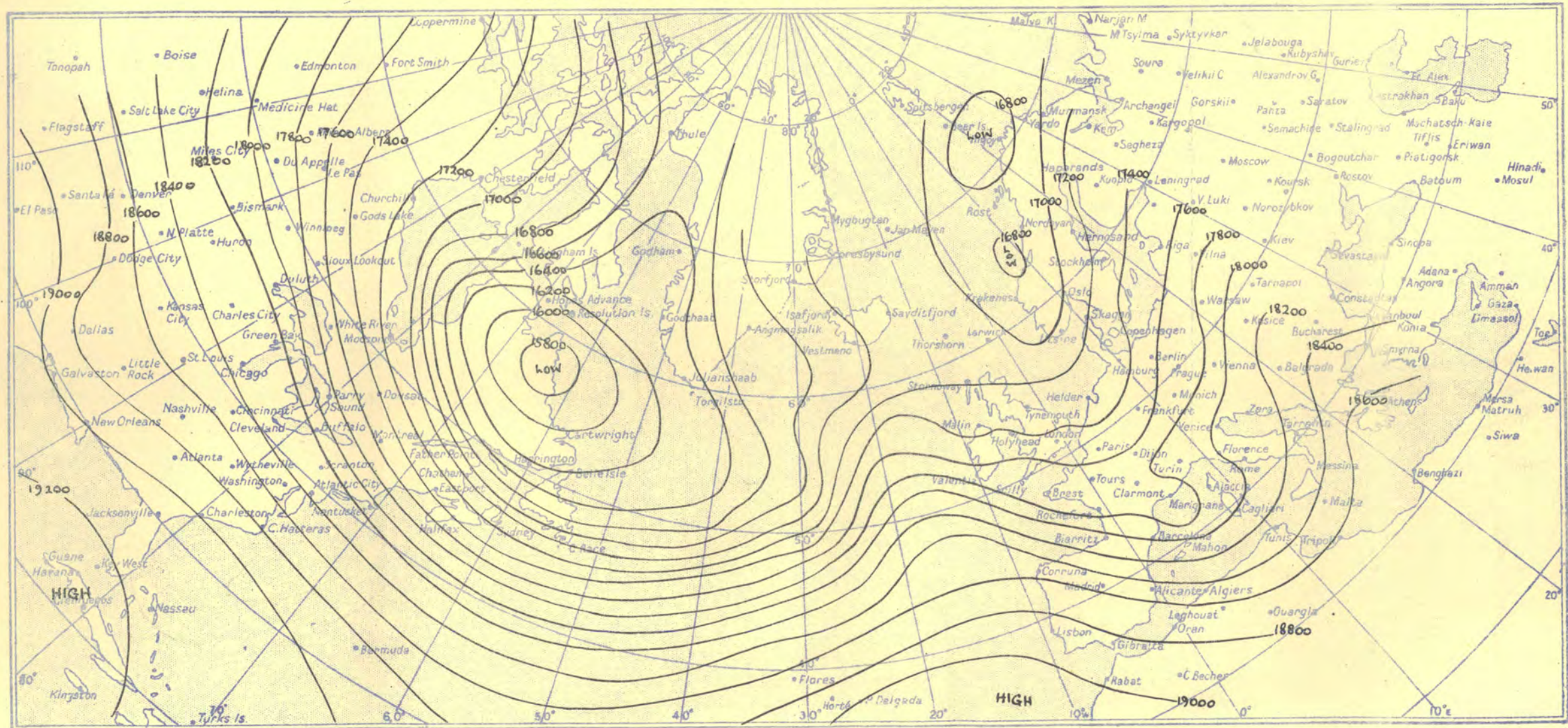
A rather weak cold trough developed over the west of the British Isles and moved east to the North Sea, while the warm ridge on the Atlantic developed and moved to west of Ireland. A renewed burst of deep cold air from the Davis Straits spread to mid-Atlantic behind this warm ridge. Over Europe a weak southwesterly thermal gradient became established.

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.

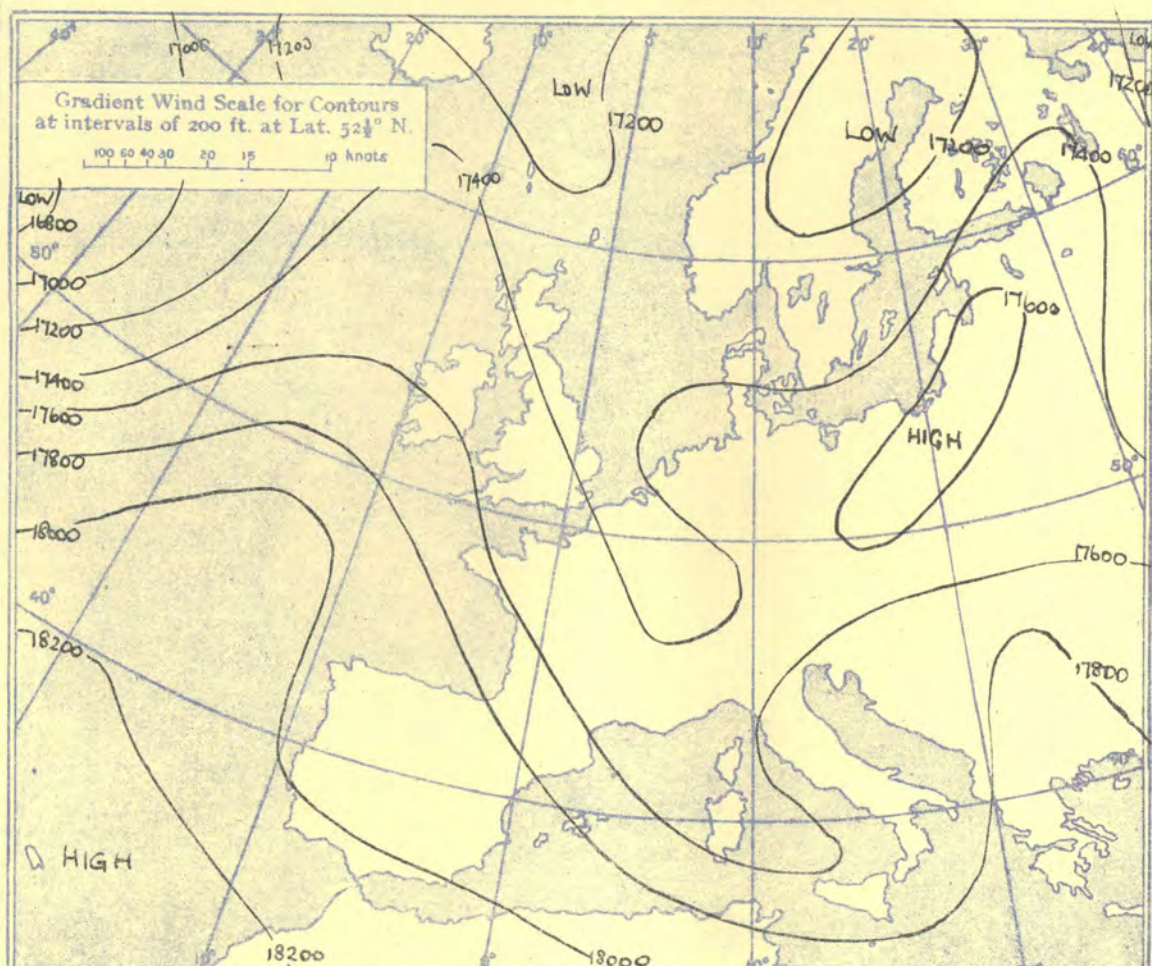
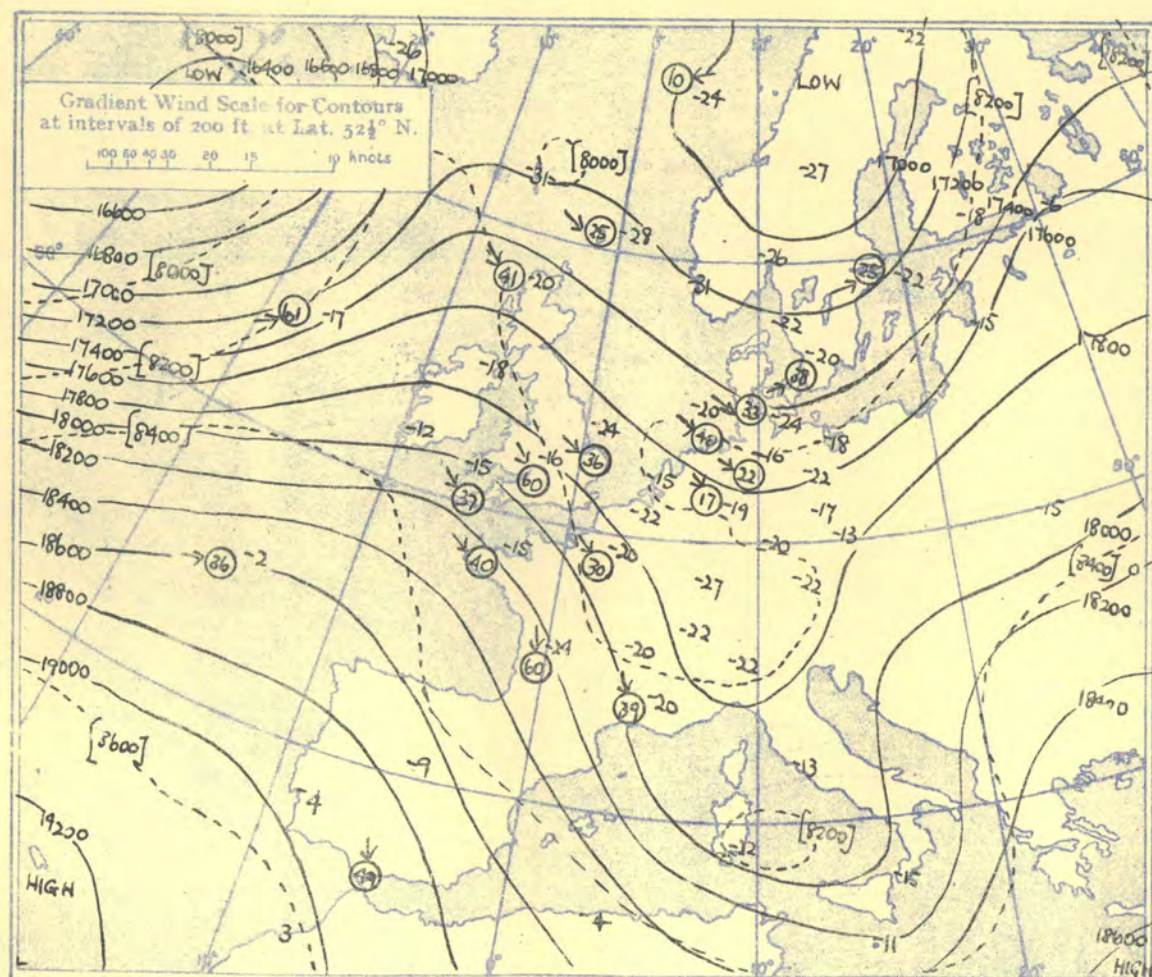
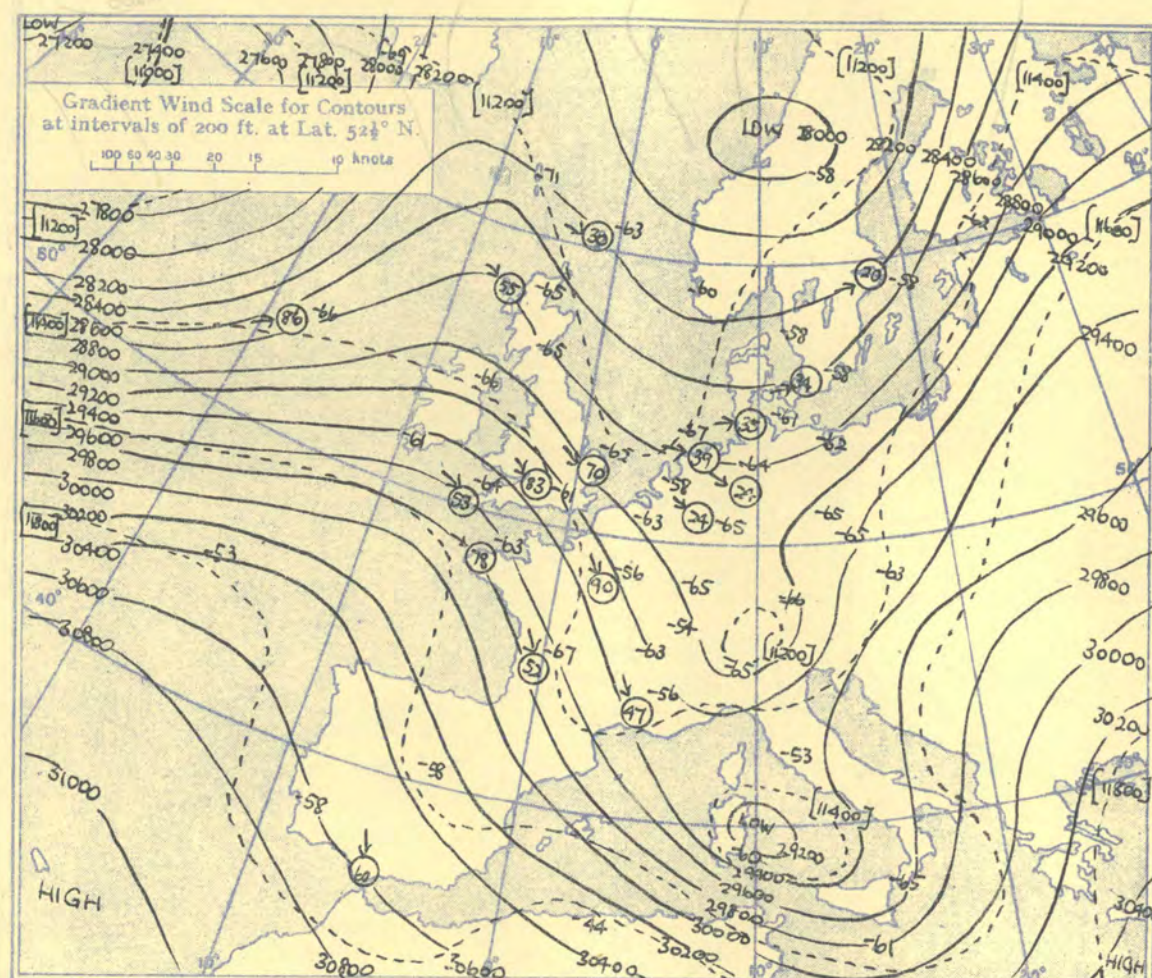
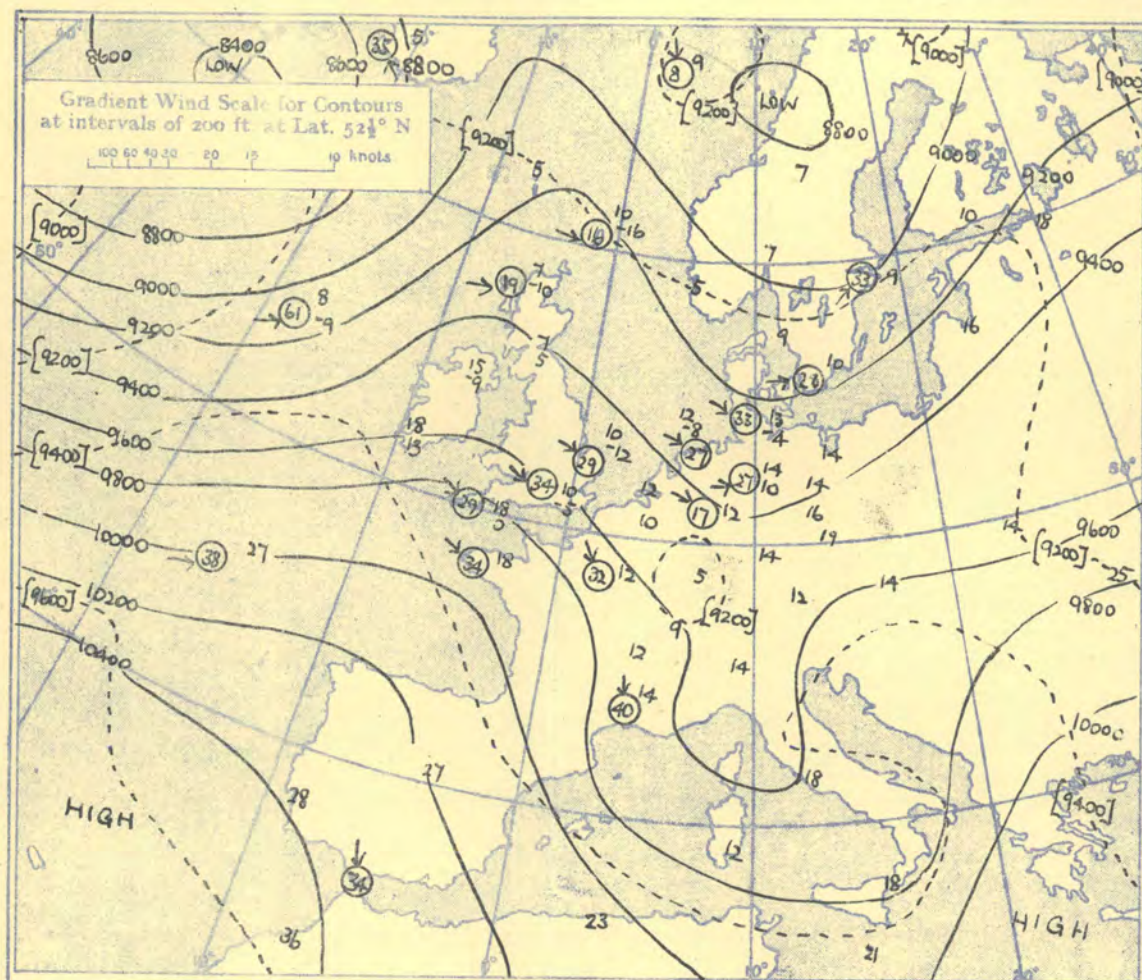
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Monday 6th February, 1950.



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 0300 G.M.T.



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

[illegible]

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

[illegible]

NEPHOSCOPE OBSERVATIONS

Place	Delford	974	Middleton							Place
Time Type	15h C	15h C	15h All							Time Type
Dir. Vel.	300 30	260 30	260 40							Dir. Vel.

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

[illegible]

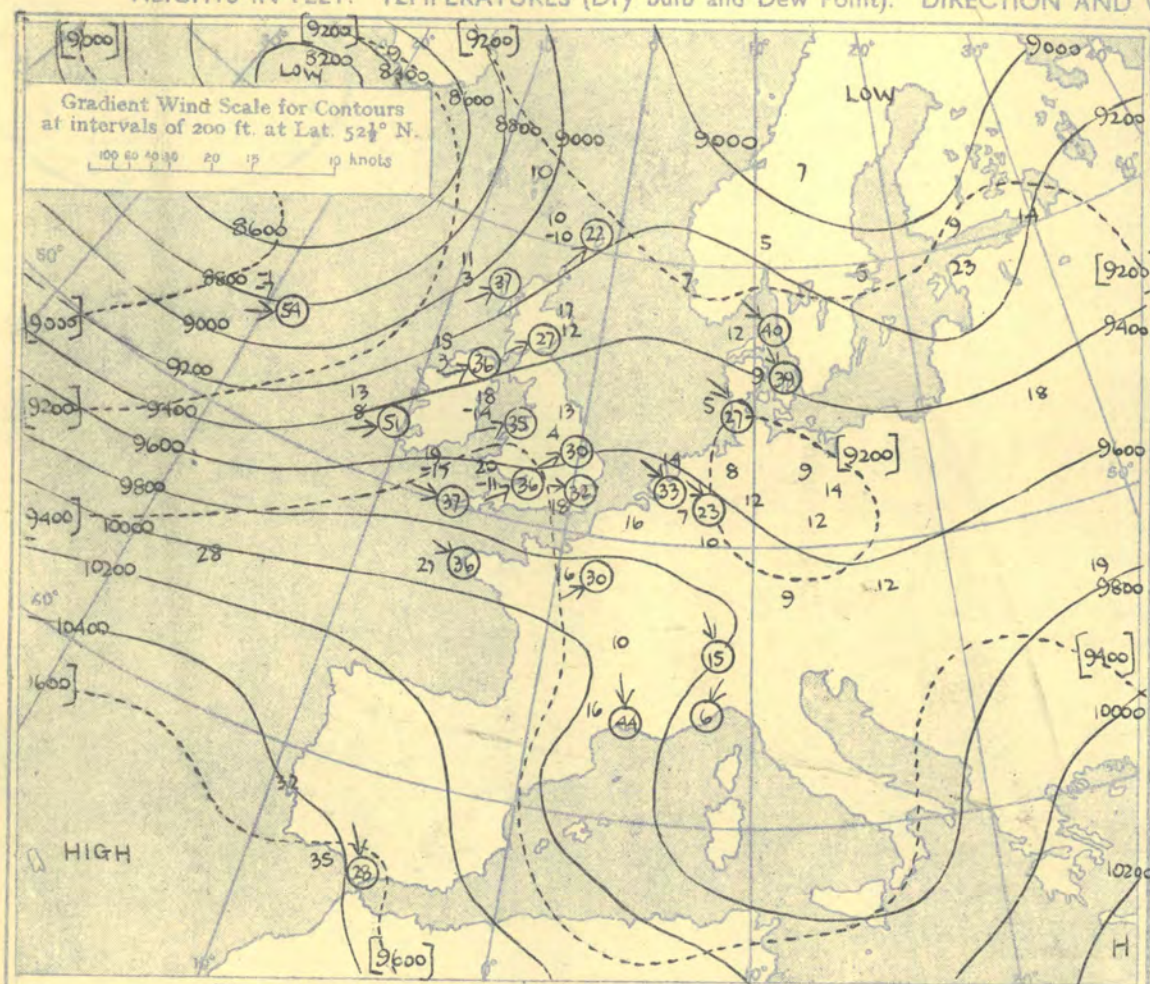
Tuesday 7th February, 1950

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																																																																																																																																																																																																																																																																																																																																																																														
Pressure mb	Time M.S.L.	0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		Time M.S.L.																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		Surf	Freezing	990.9	mb	990.9	mb	1003.1	mb	1001.2	mb	1004.9	mb	1005.8	mb	1010.1	mb	1001.2	mb	891	mb	1011.8	mb	1007.2	mb	1014.7	mb	998.1	mb	1017.4	mb	1009.2	mb		1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb	1009.2	mb	1008	mb

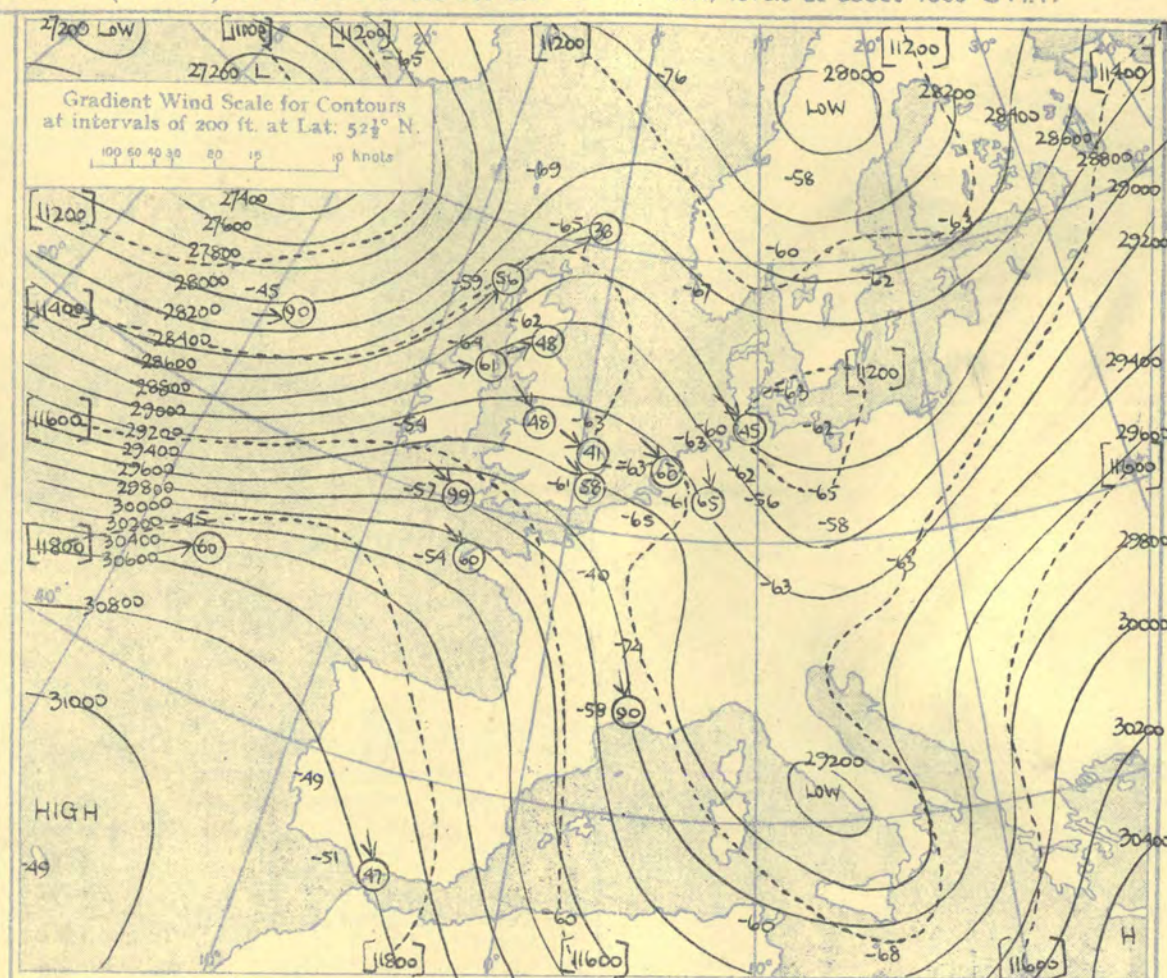
7th February 1950

MEALTEA 1500
1005
1008
870
G.M.T. mb
M.S.T. 7
(Suri) mb
Freezing
Wind
Dir. Vel. E Pressure
knobs 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 1500 G.M.T.

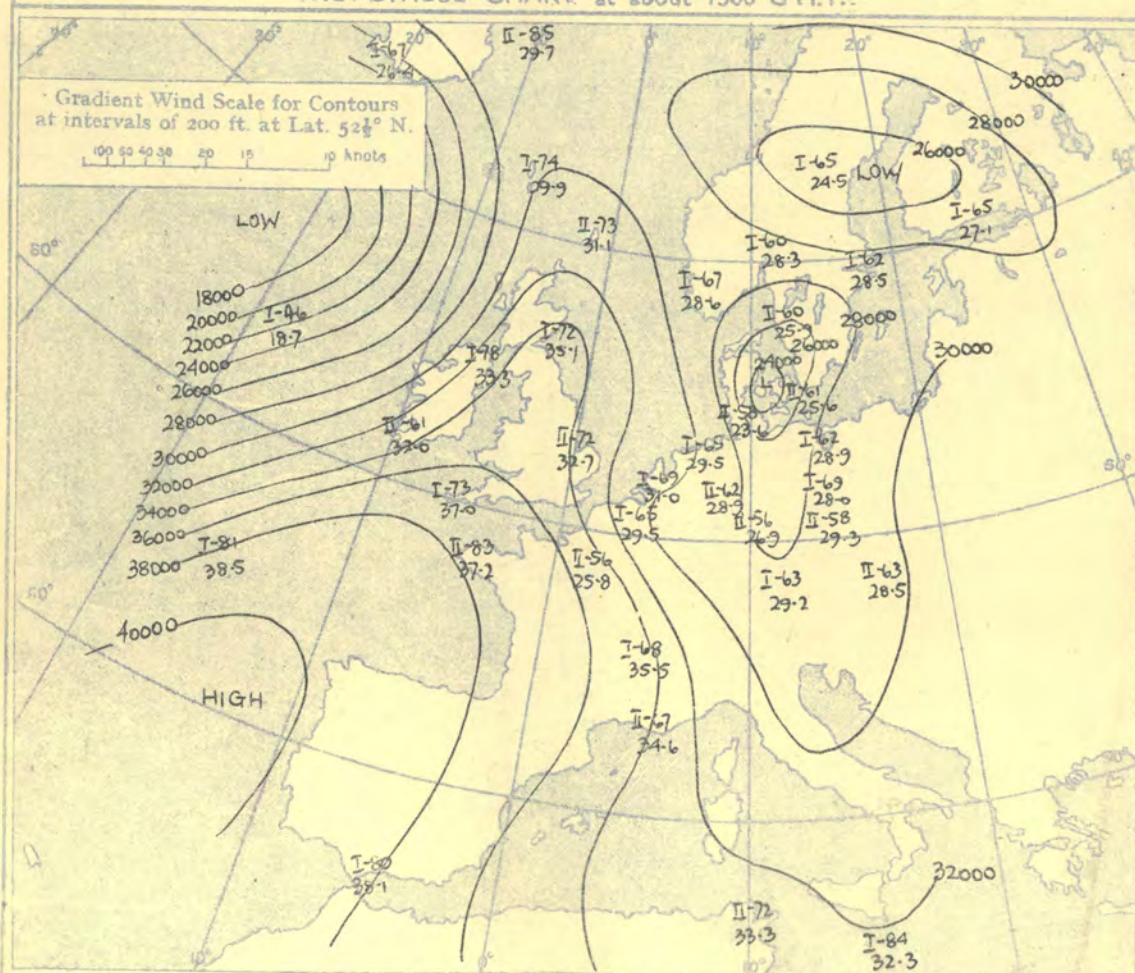


The continuous lines are contour lines of the 700 mb. surface. The dotted lines are isopleths of the thickness of the layer 1000-700 mb.



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.

TROPOPAUSE CHART at about 1500 G.M.T.



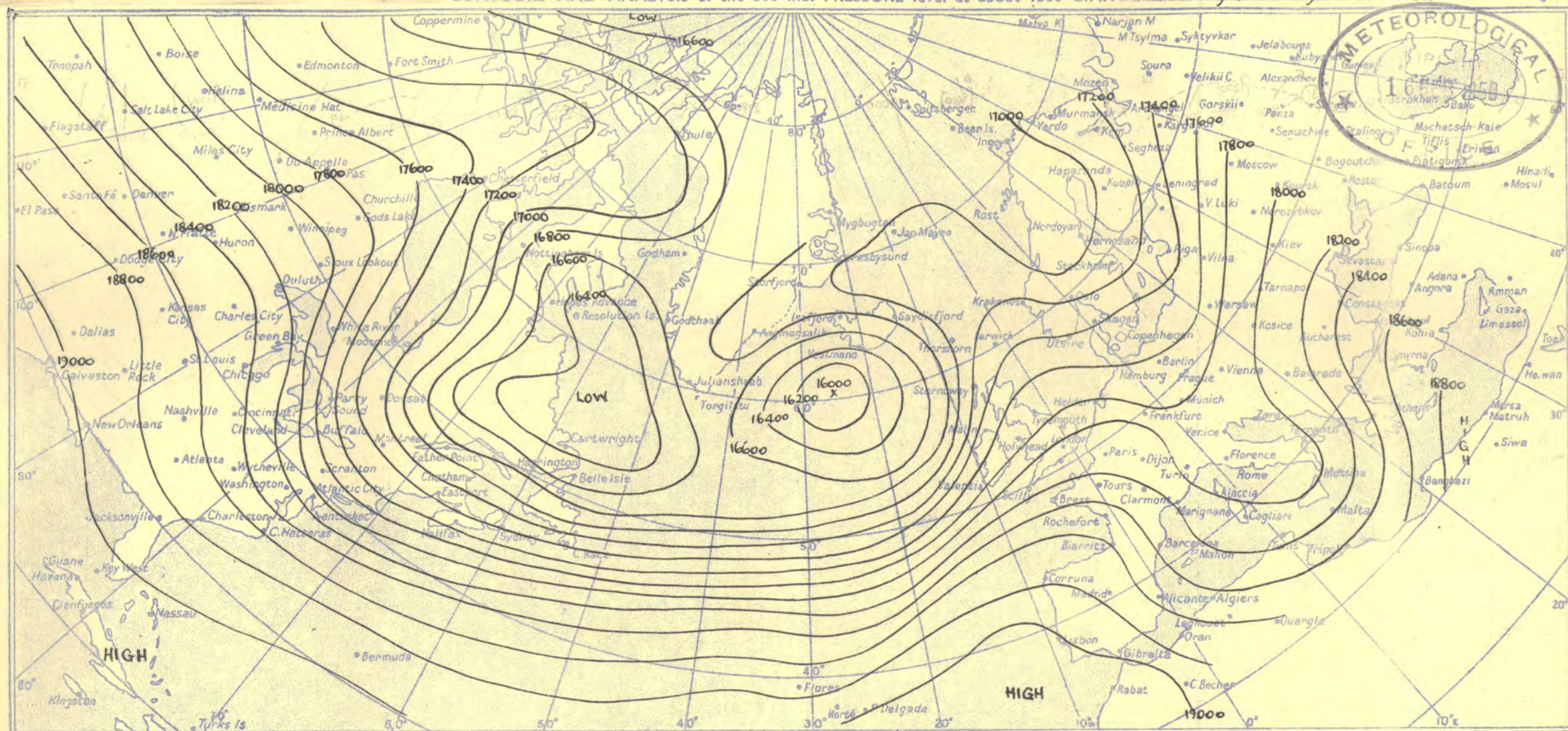
Contour lines of Height of Tropopause. Temperature of Tropopause.

NOTES ON THE AEROLOGICAL SITUATION.

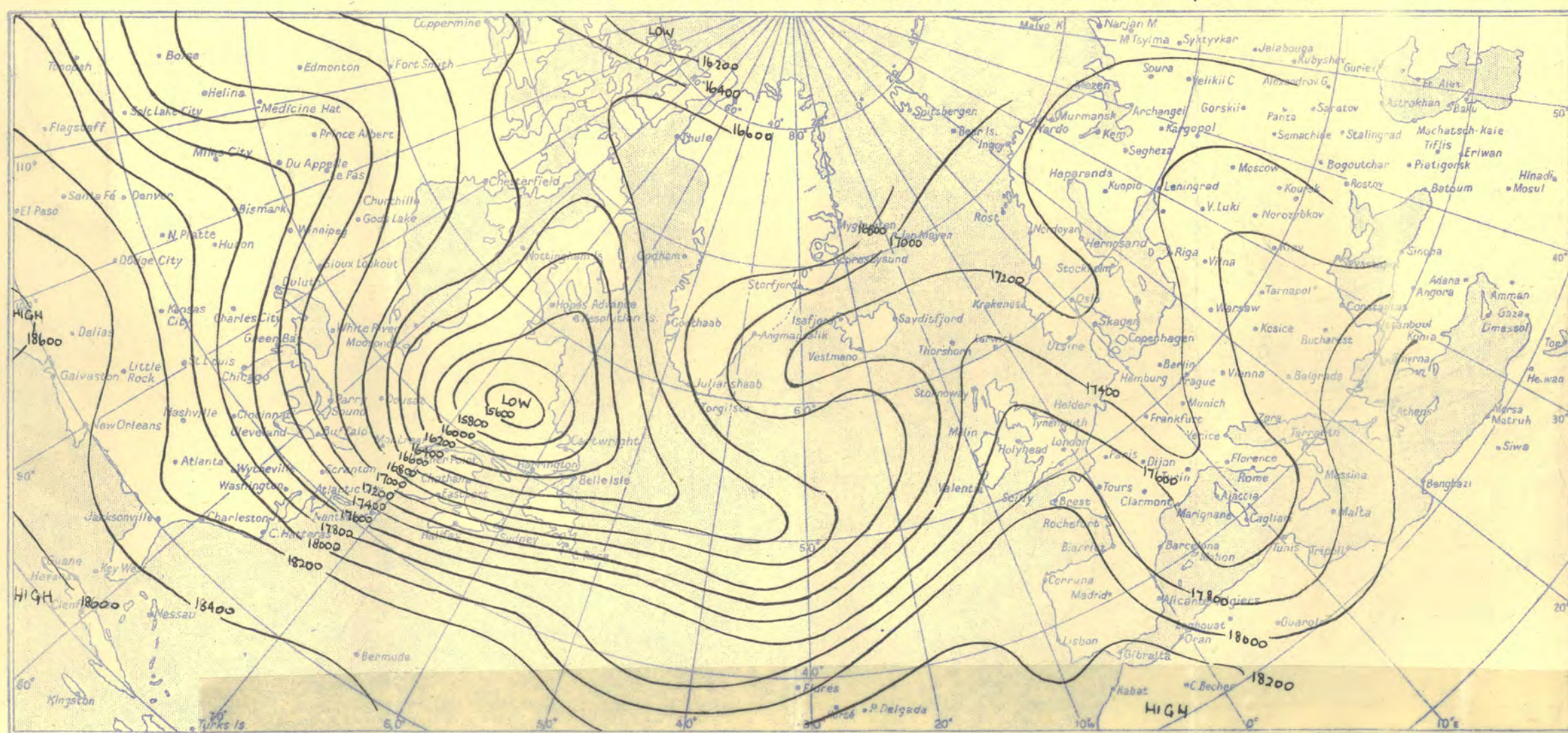
The cold trough over the North Sea moved east to about 20/25° East while the warm ridge west of Ireland moved to the North Sea. A pronounced cold pool from the Atlantic spread to Ireland late in the period.

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.

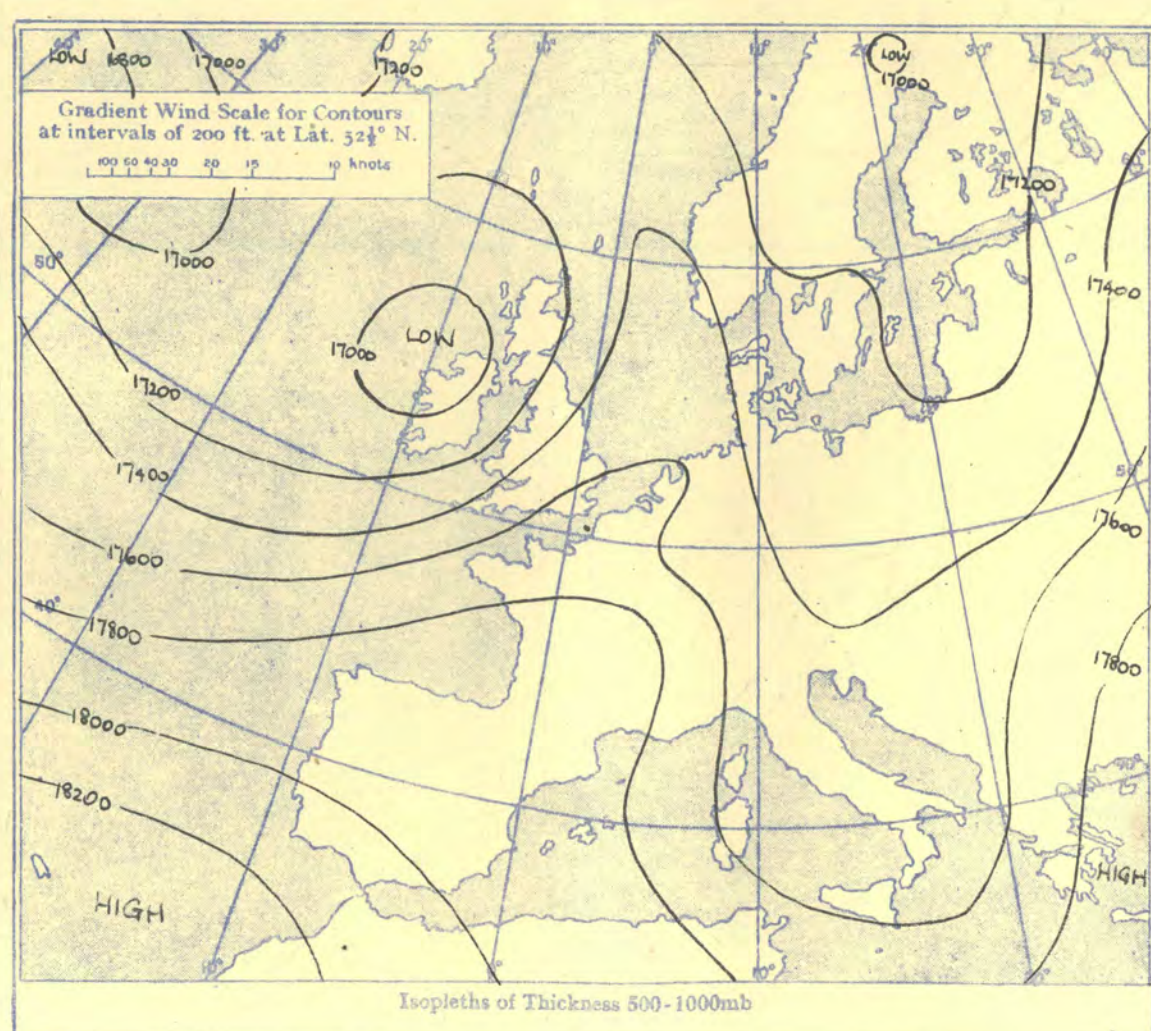
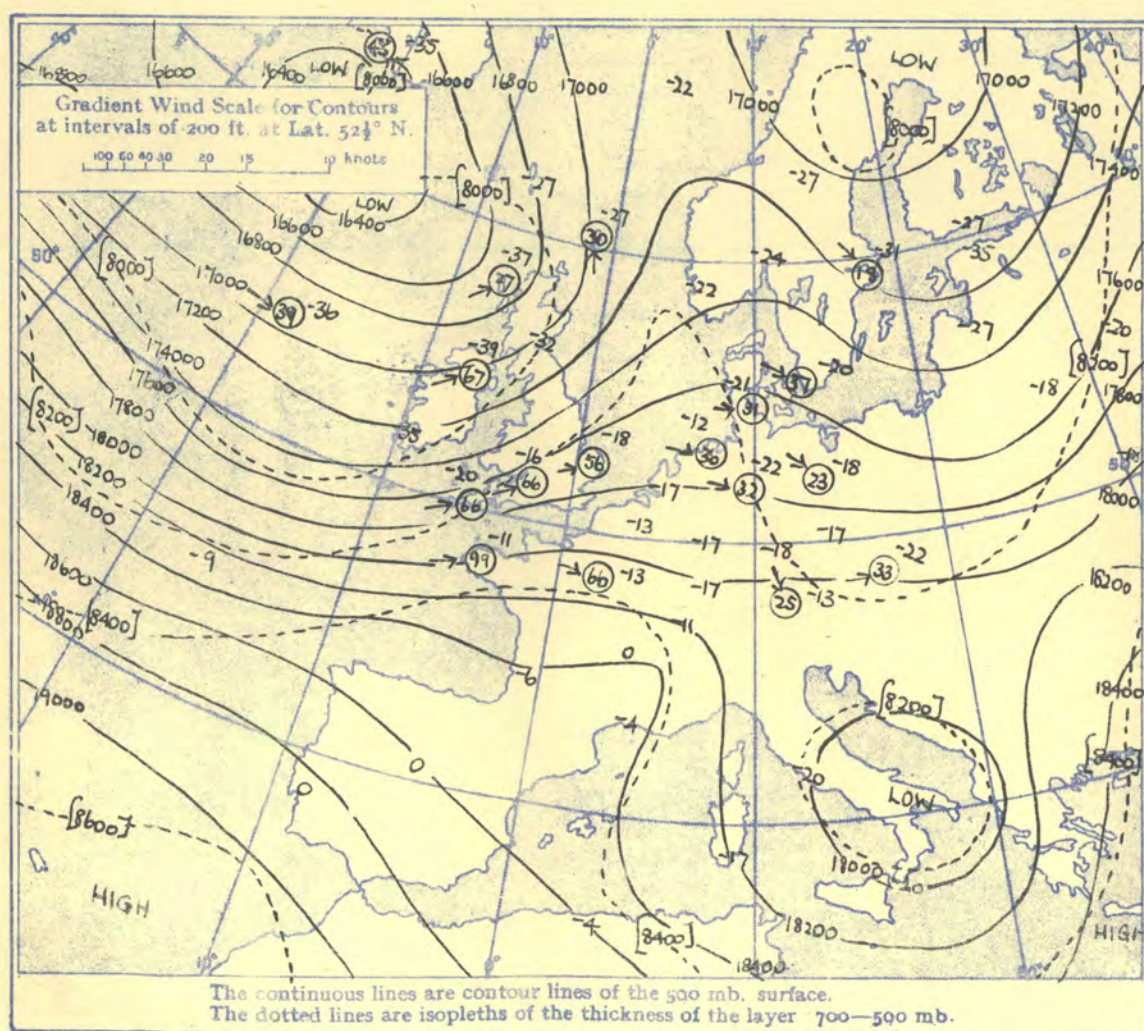
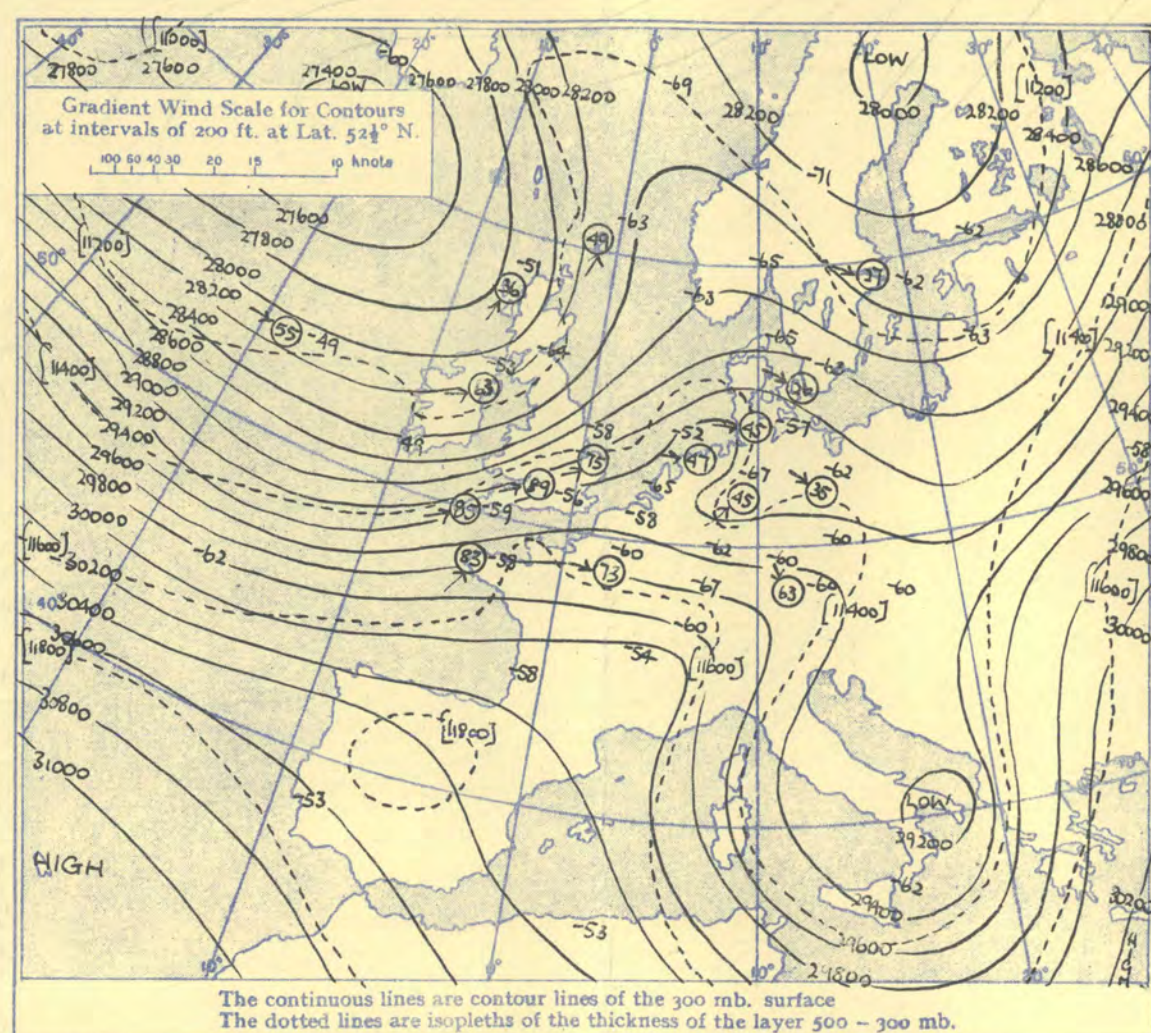
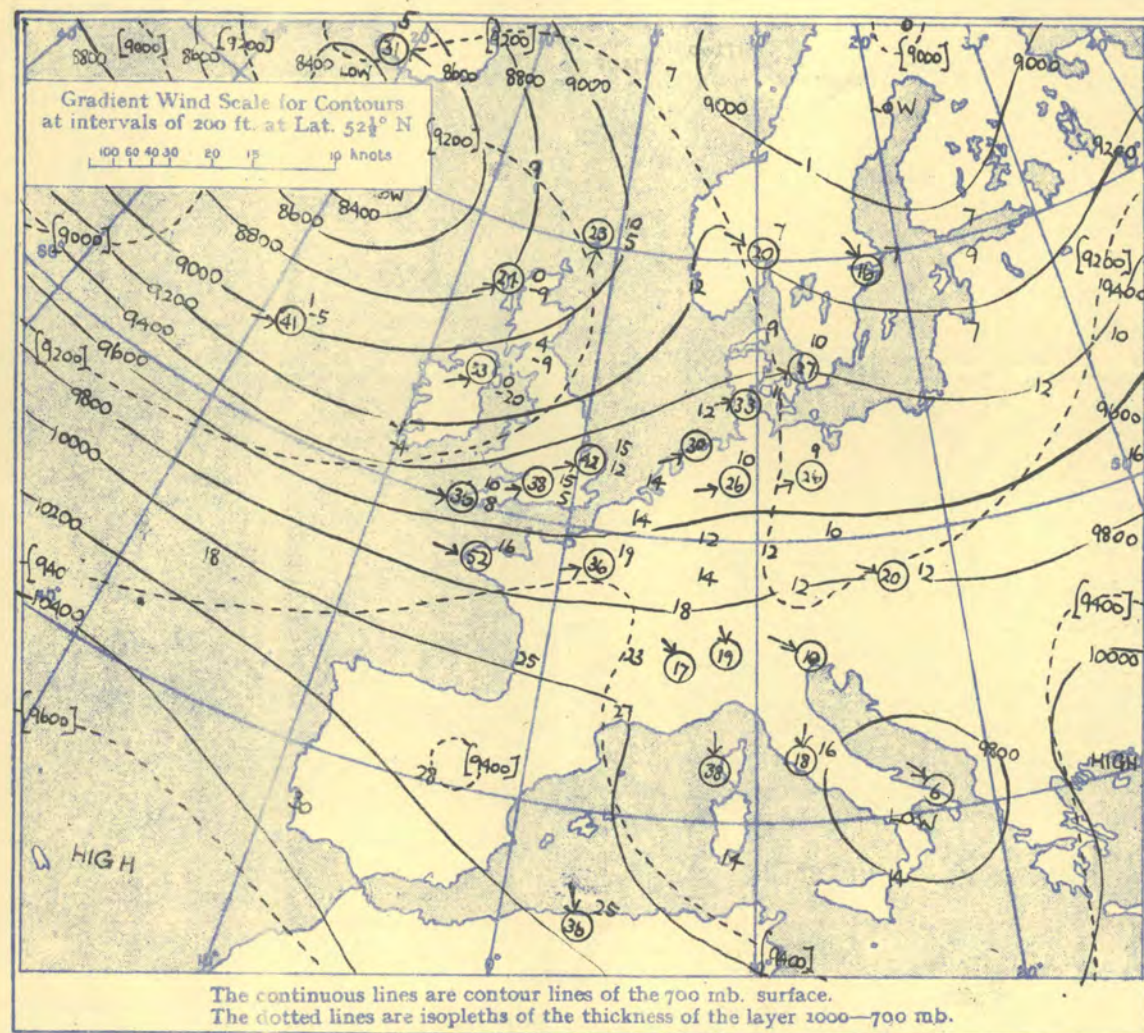
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Tuesday 7th February 1950.



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 0300 G.M.T.



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

[illegible]

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

[illegible]

NEPHOSCOPE OBSERVATIONS

Place	Swinderby	Swinderby								Place
Time Type	9hr	Ac	12h	Ac						Time Type
Dir. Vel.	270	35	280	36						Dir. Vel.

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

[illegible]

Wednesday 8th. February 1950

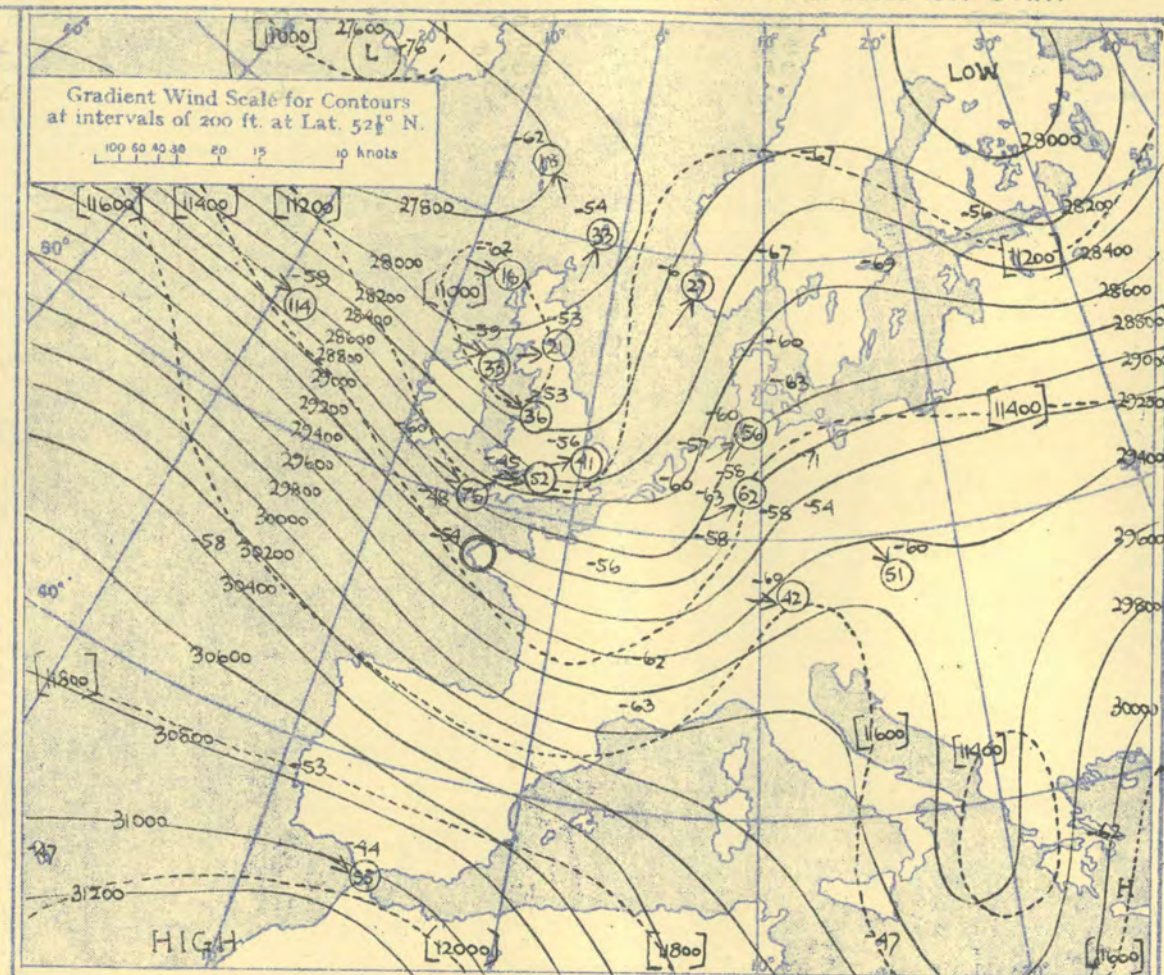
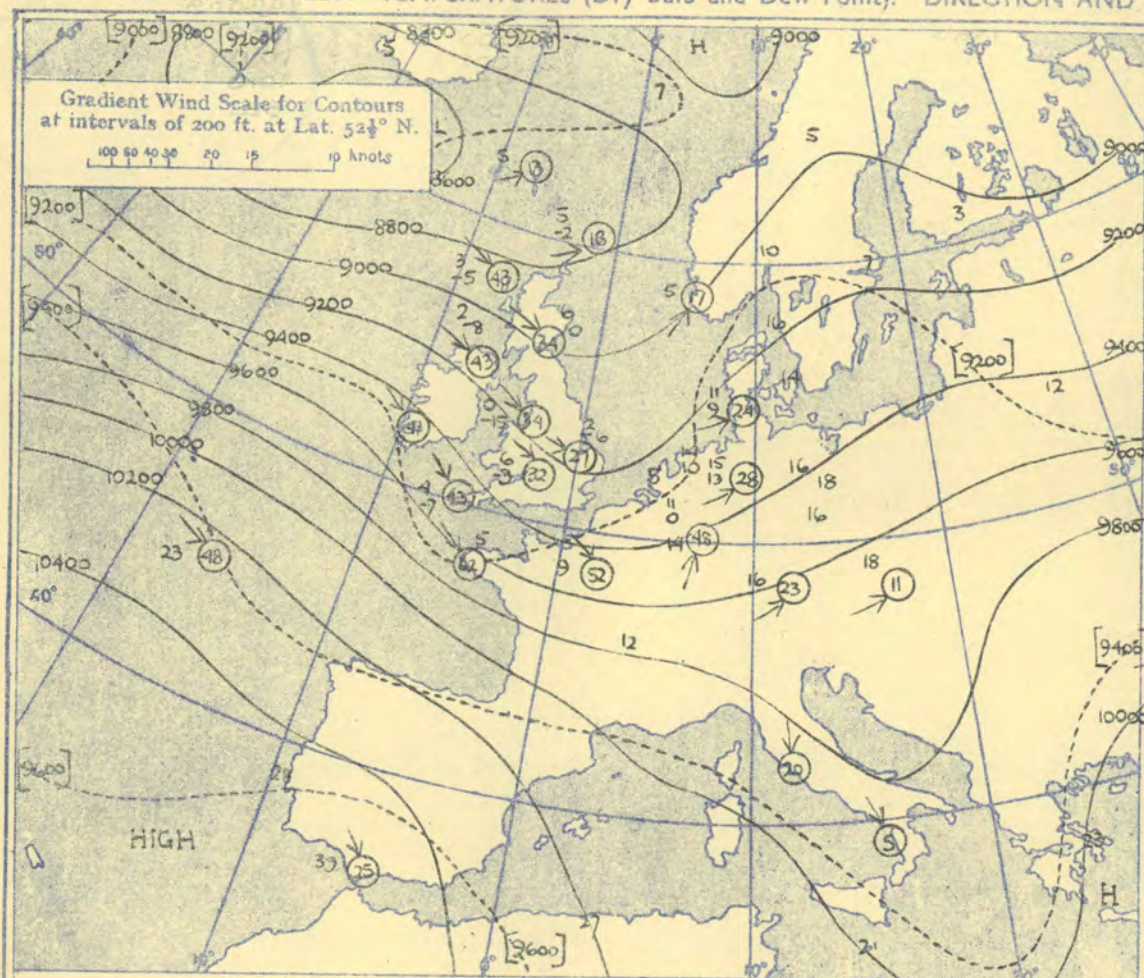
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Pressure	Time M.S.L. Surf Freezing	0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		Time M.S.L. Surf Freezing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		986.6		mb		987.2		mb		985.1		mb		998.8		mb		1004.2		mb		1005.8		mb		1008.7		mb		1002.9		mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		976.6		mb		985.3		mb		994.2		mb		990.0		mb		999.7		mb		989.7		mb		997.9		mb		1001		mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		880				948				925				985				865				860				895				925																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
		Height ft./100		Temp. °F.		Dew °F.		Wind Dir. Vel. knots		Height ft./100		Temp. °F.		Dew °F.		Wind Dir. 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	41	41	202	09	05	35	31	180	05	00.2	36	31				02.3	35	31	225	18				01.2	43	40	200	11	4.4	45	43	250	08	02.9	45	41	293	12	003	37	31		Surf																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	950	03.6	38	37	194	19		32	27	236	18	01.4	35	30				00.3	30	23	238	34				01.1	42	39	244	30	1.5	41	38	262	25	023	37	33	285	34	8	37	31		1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	900	24.5	34	31	191	20		243	27	207	28	2.64	28	23				27.3	24	17	246	38				29.2	36	33	258	32	29.7	35	31	264	30	303	33	32	279	33	286	28	24		950																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	850		18	18	192	19		21	11	225	32								18	08	254	43					31	29	254	33		31	26	258	33		27	27	272	30		21	19		900																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	800	55.2	22	21	193	21		546	14	04	227	28	568	18	03				57.4	12	01	256	47				60.2	27	25	247	33	60.6	25	22	253	36	610	21	21	271	39	589	15	13		850																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	750		15	15	193	24		07	-1	233	25								05	-11	251	50					21	19	241	38		21	18	248	37		16	15	271	34		7	6		750																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	700	89.0	10	05	183	23		879	00	-9	238	24	903	04	-09				90.5	00	-20	246	53				94.4	15	12	236	42	94.8	15	05	245	38	949	10	08	270	36	921	-1	-7		700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

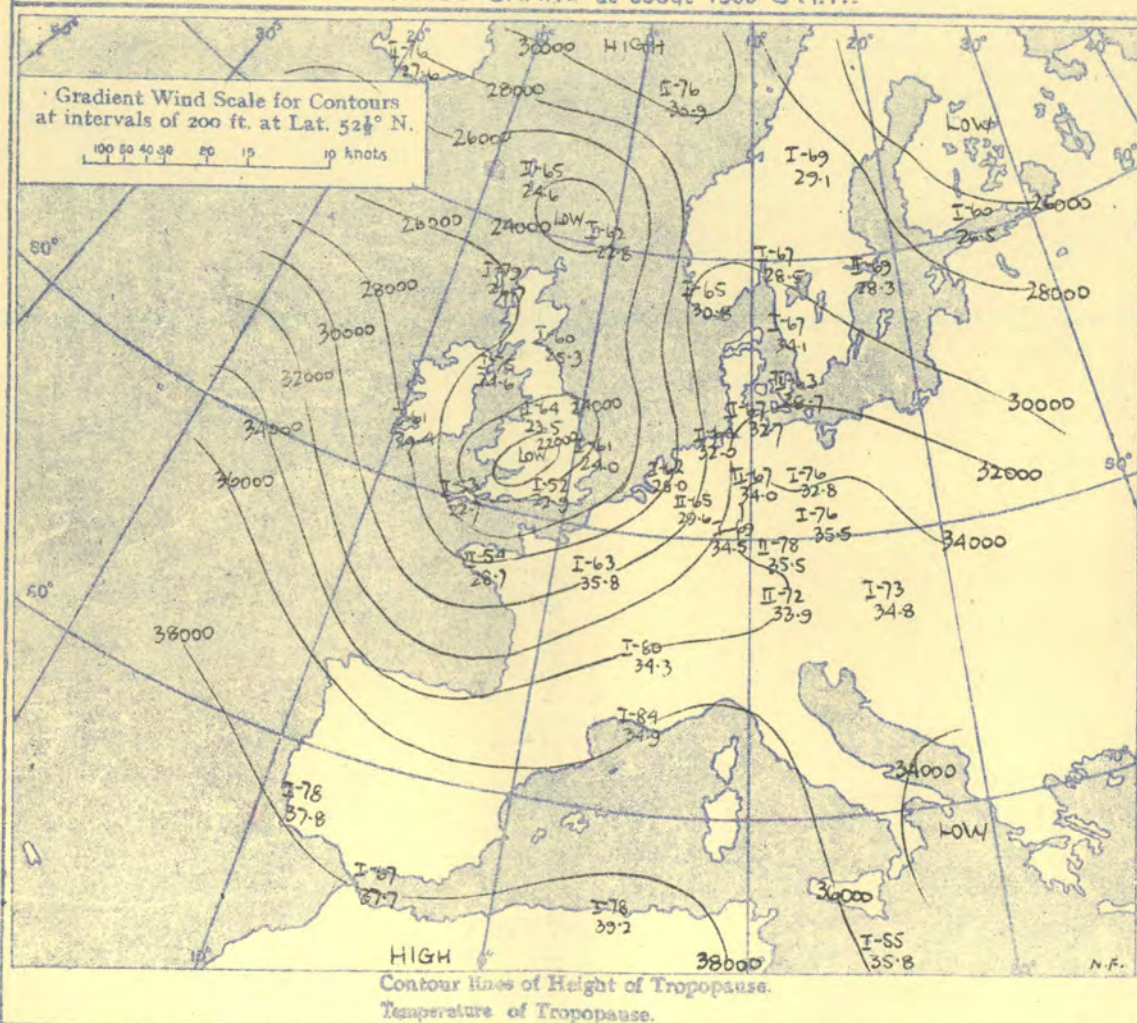
8th February

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				V. E. T. E. C. LOGIC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

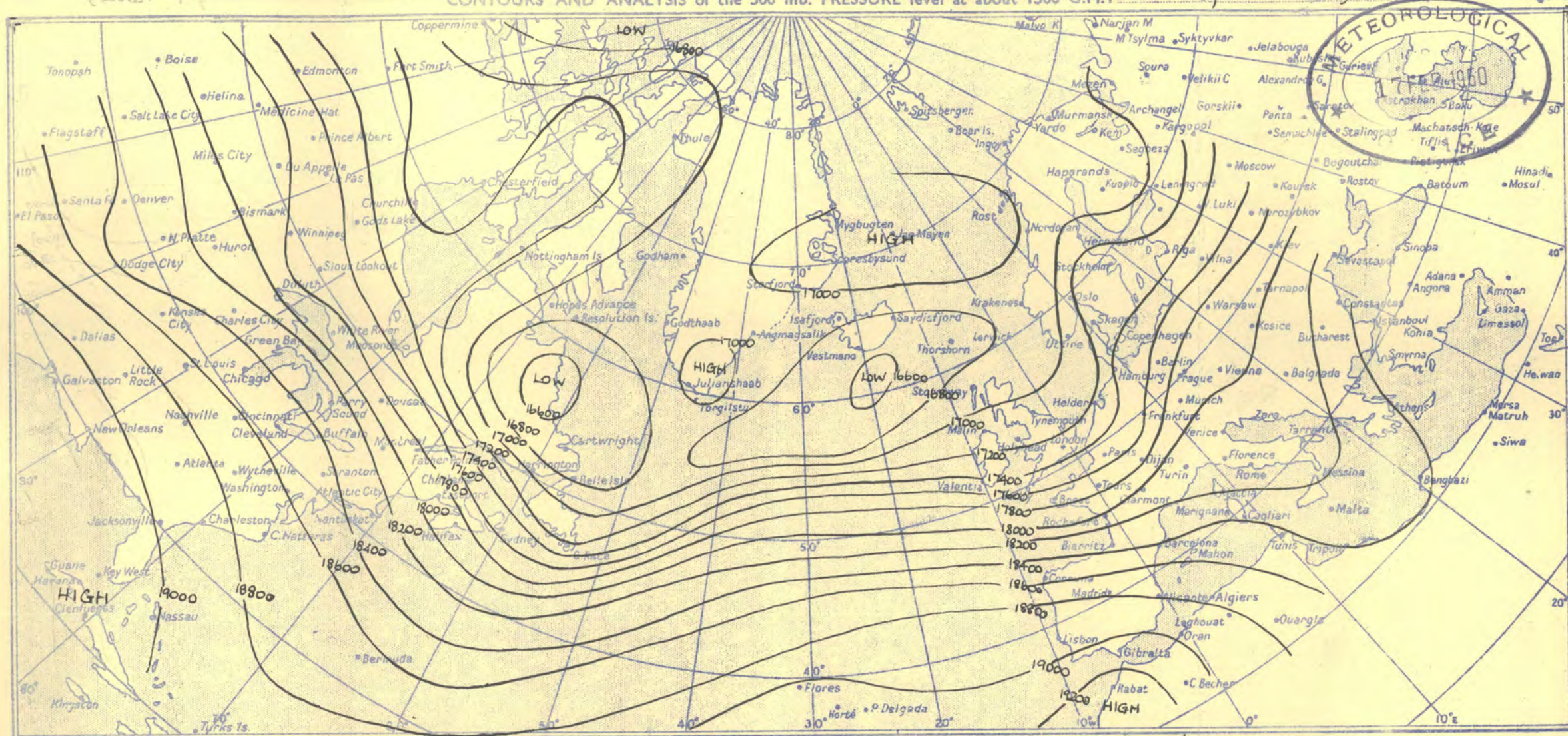


NOTES ON THE AEROLOGICAL SITUATION.

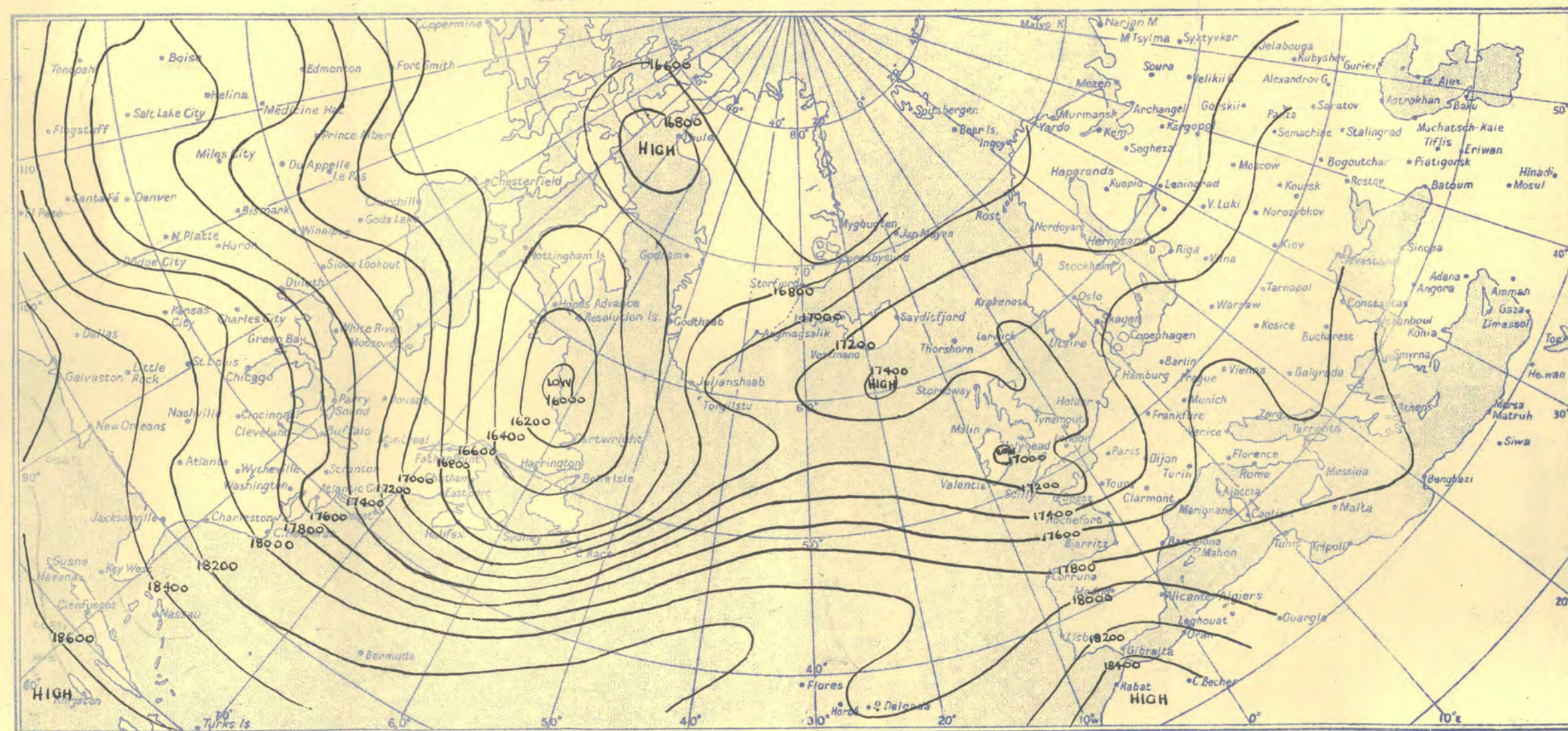
The pronounced cold pool over Ireland moved across the British Isles and formed a new trough in the North Sea. A warm pool developed and persisted over the stationary low south of Iceland. A marked thermal jet stream became established from south of Newfoundland across the Atlantic to the southwest of 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.

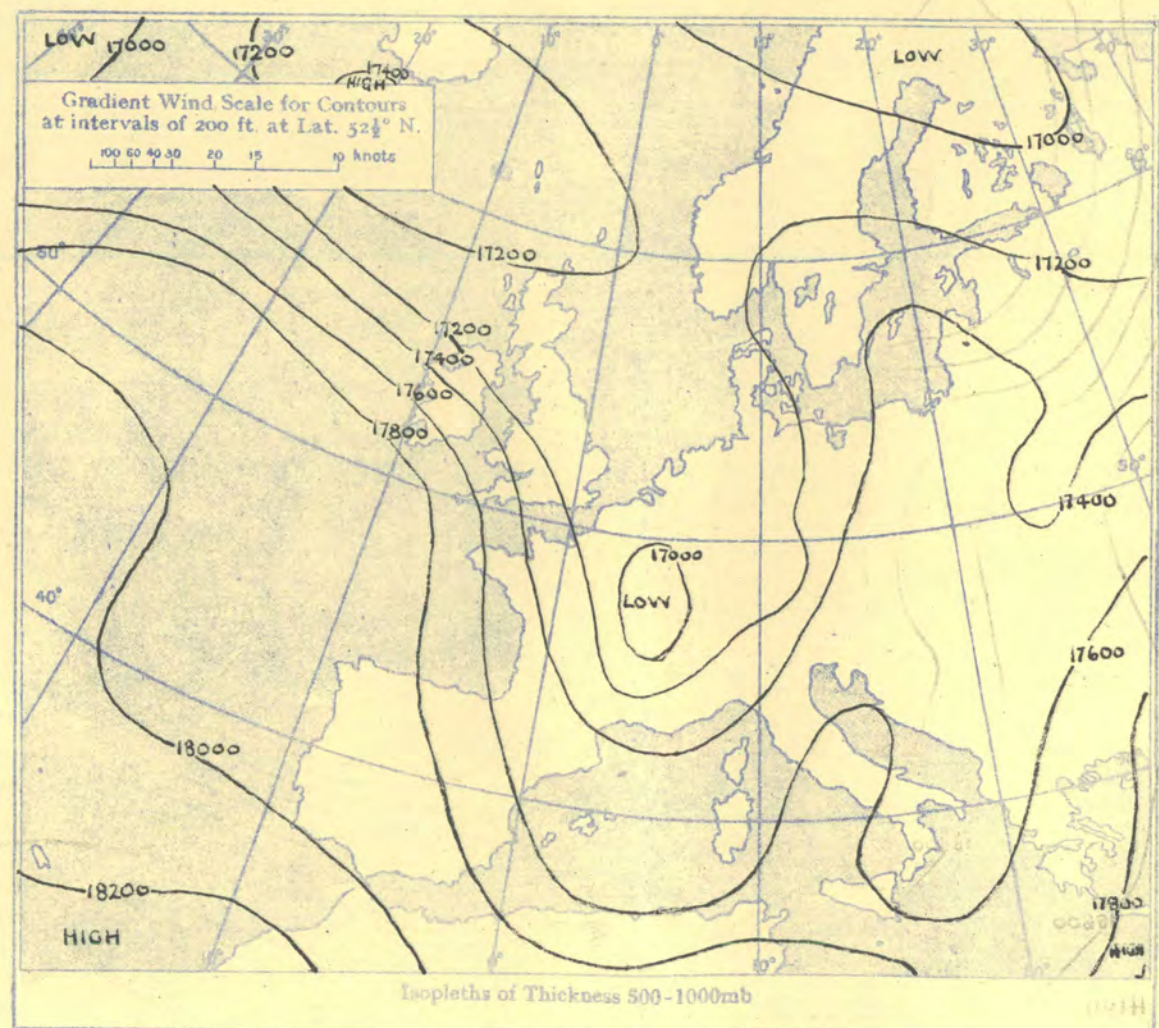
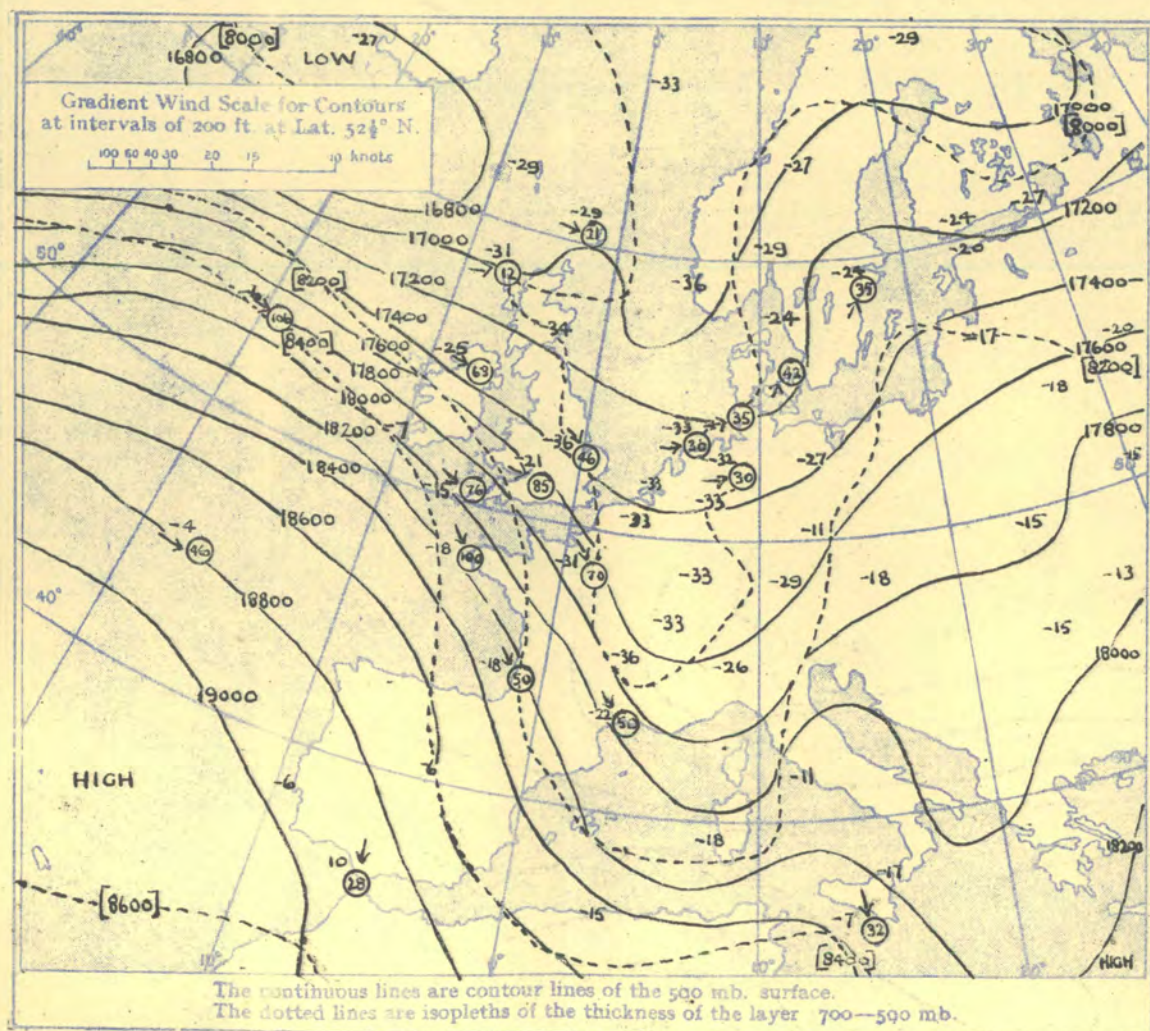
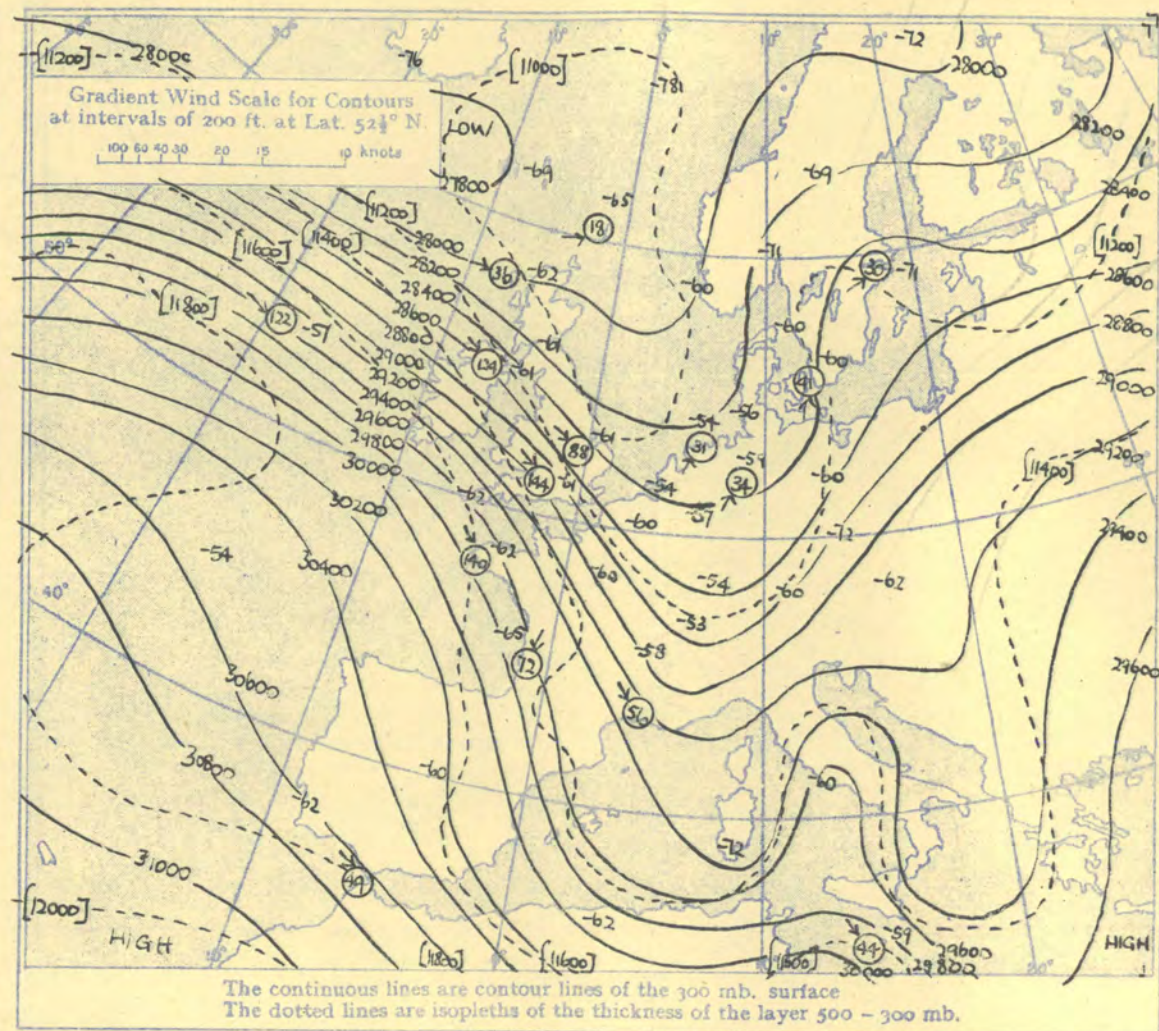
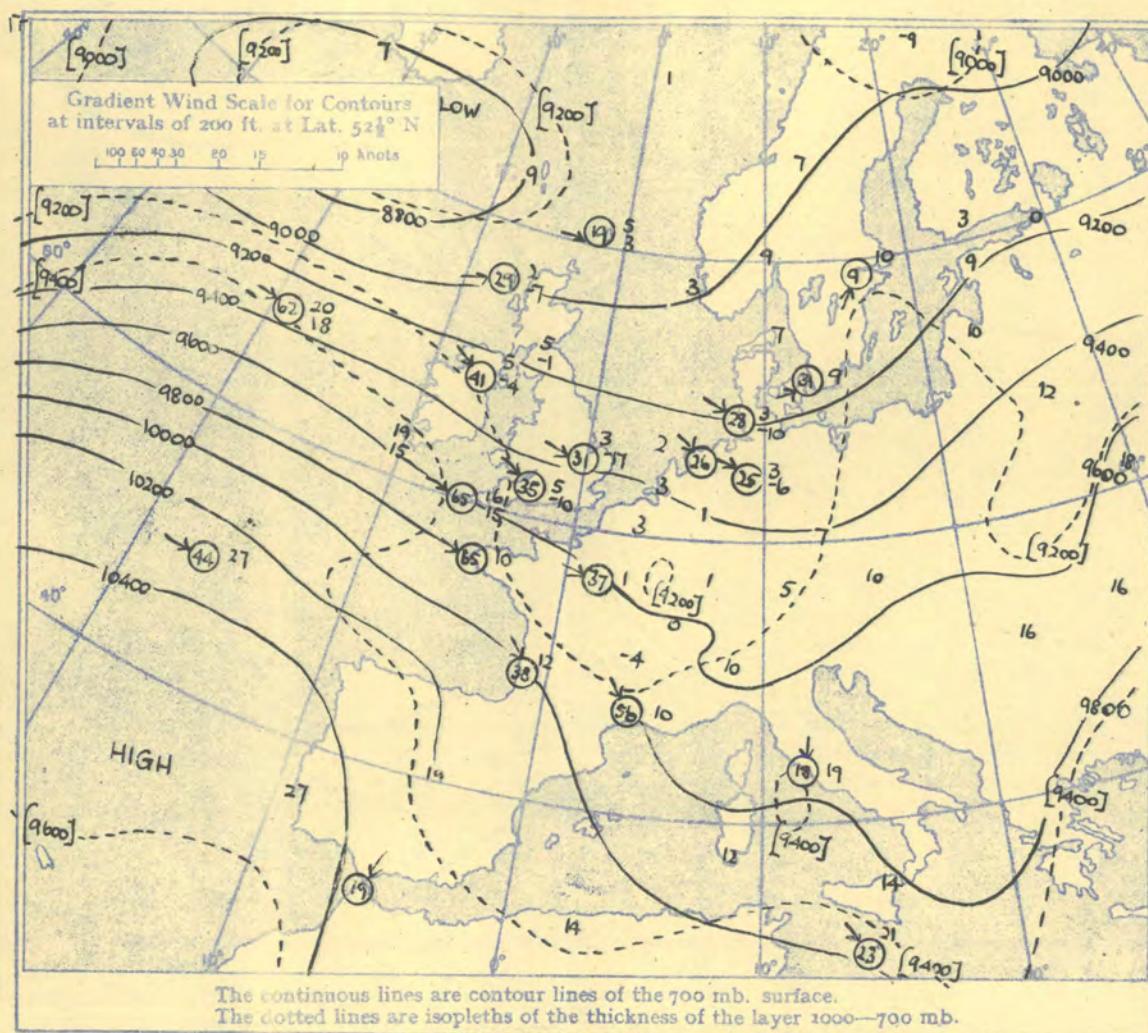
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T Wednesday 8th February. 1950.



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 0300 G.M.T.



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

Ship	WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER OBSERVER				WEATHER EXPLORER				WEATHER 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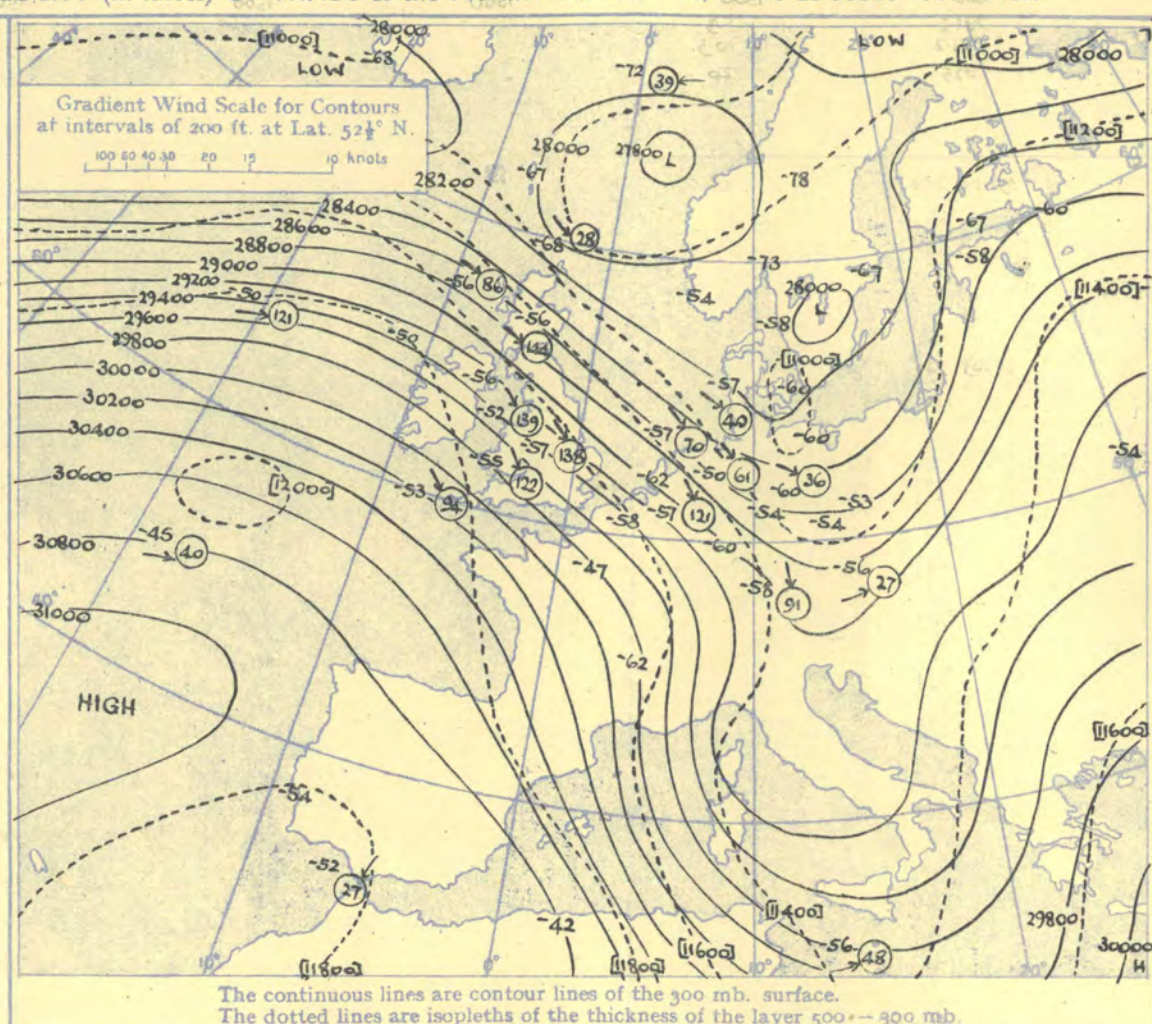
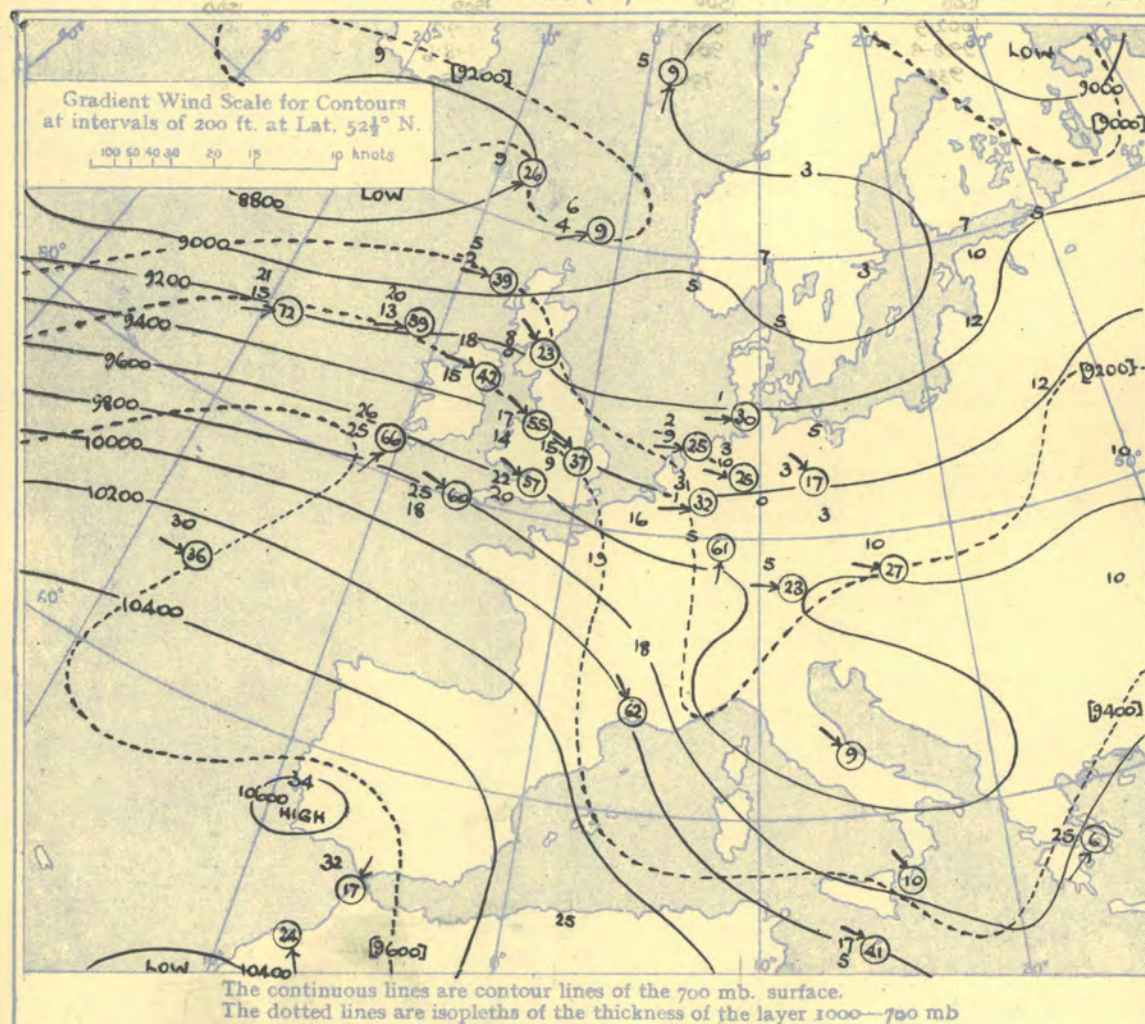
Thursday 9th February, 1950

[illegible]

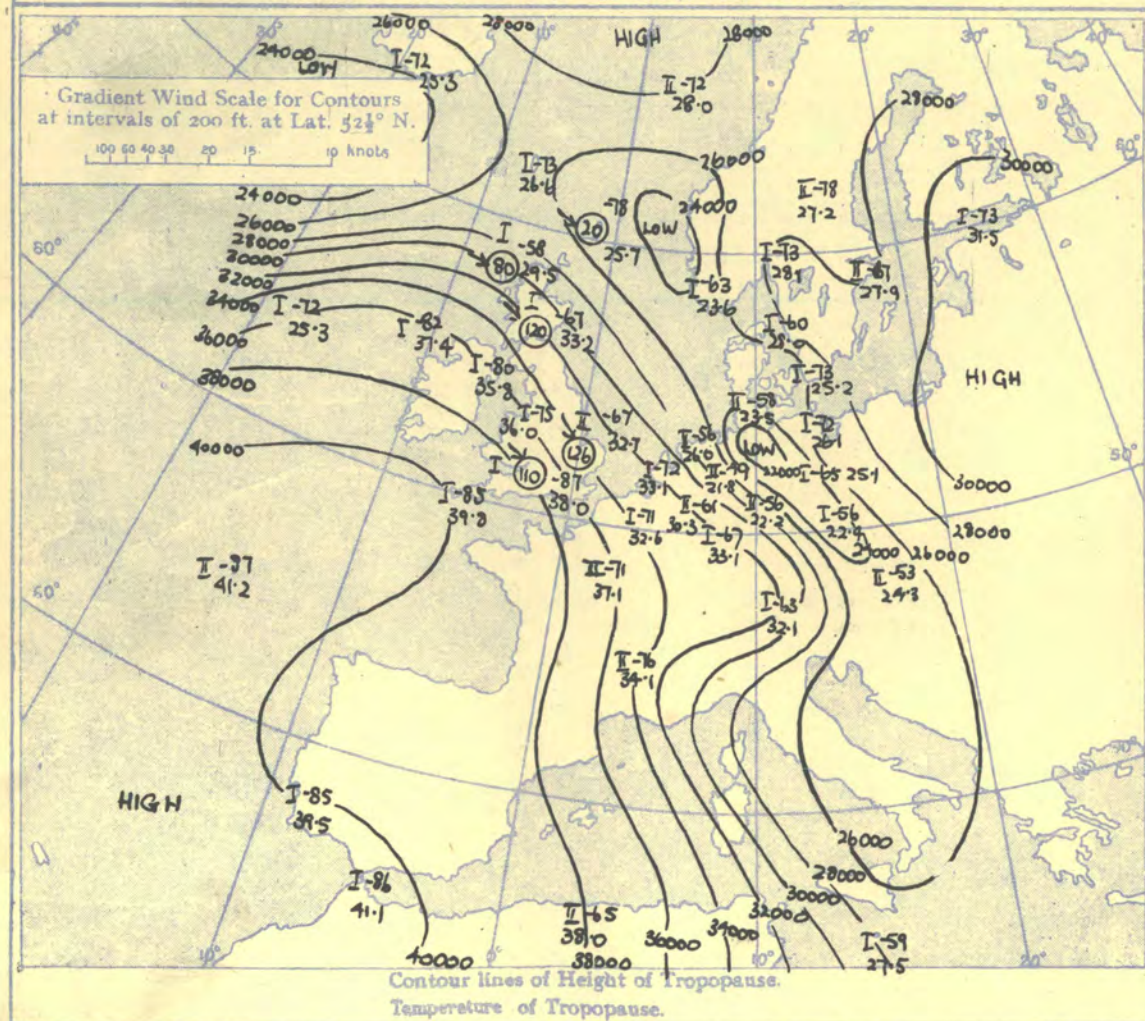
Thursday 9th February 1950

A close-up photograph of a vintage 'METEOROLOGICAL' clock face. The clock is circular with a grid of numbers and weather-related terms. The numbers 1500, 1000-4, 1000, and 750 are visible. The words 'VALENTIA', 'G.M.T.', 'M.S.S.', 'Sun', and 'Freezing' are also visible. The clock is partially obscured by a large, dark, circular shadow.

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.



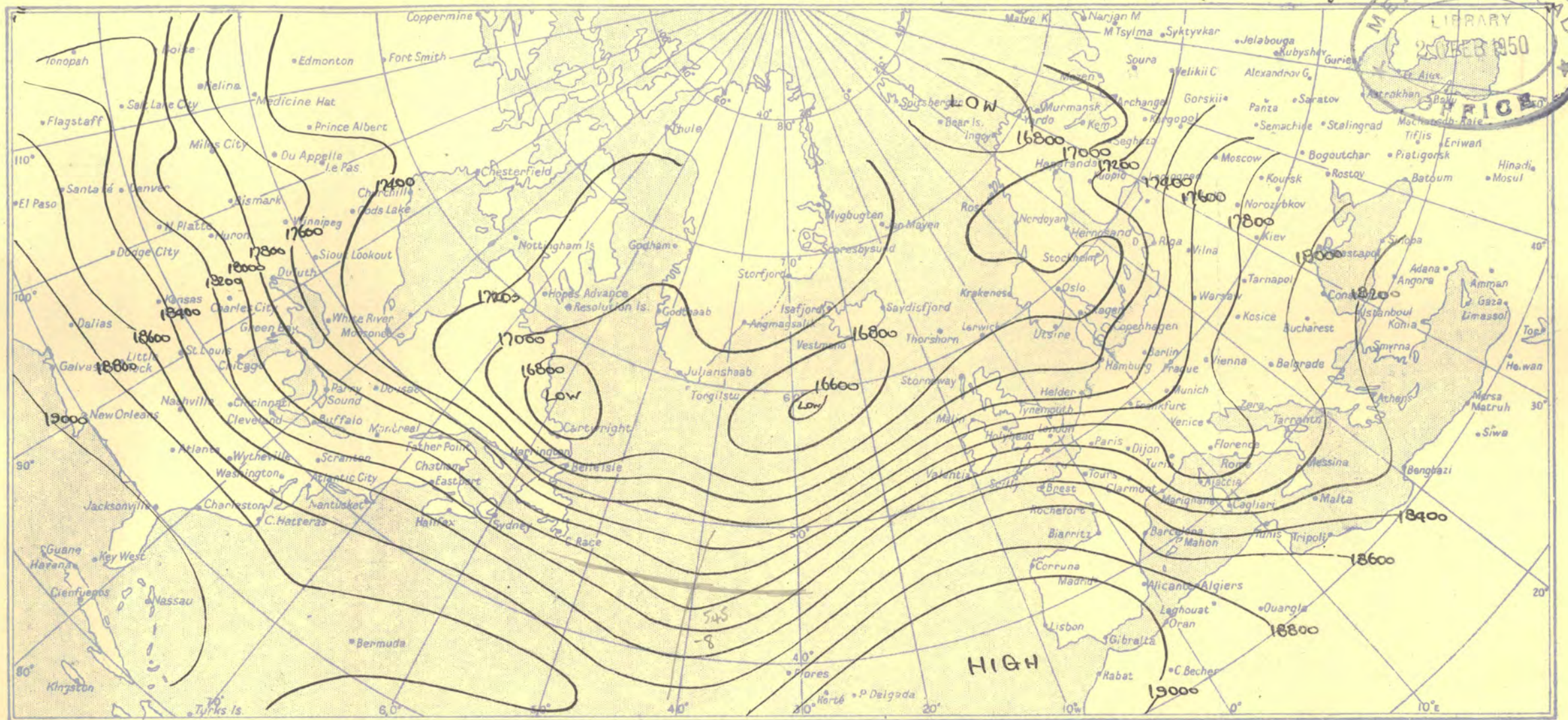
NOTES ON THE AEROLOGICAL SITUATION.

The cold trough over the North Sea and France moved steadily eastwards across Europe. A pronounced thermal jet stream persisted across the Atlantic to off Ireland. The jet stream penetrated into the British Isles later. The isolated warm pool south of Iceland gradually disappeared.

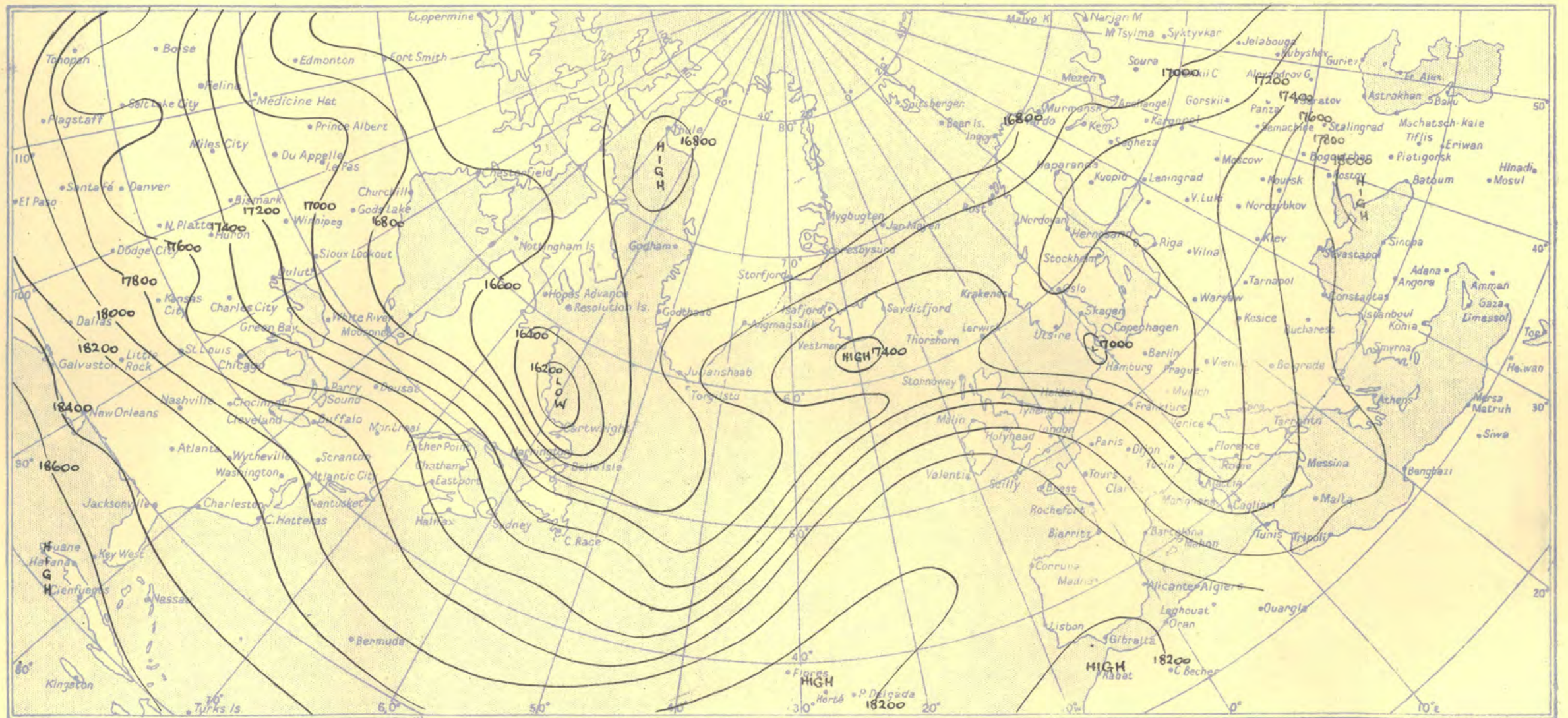
RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
For special arrangements for supply to schools and colleges, see Form 2452.

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

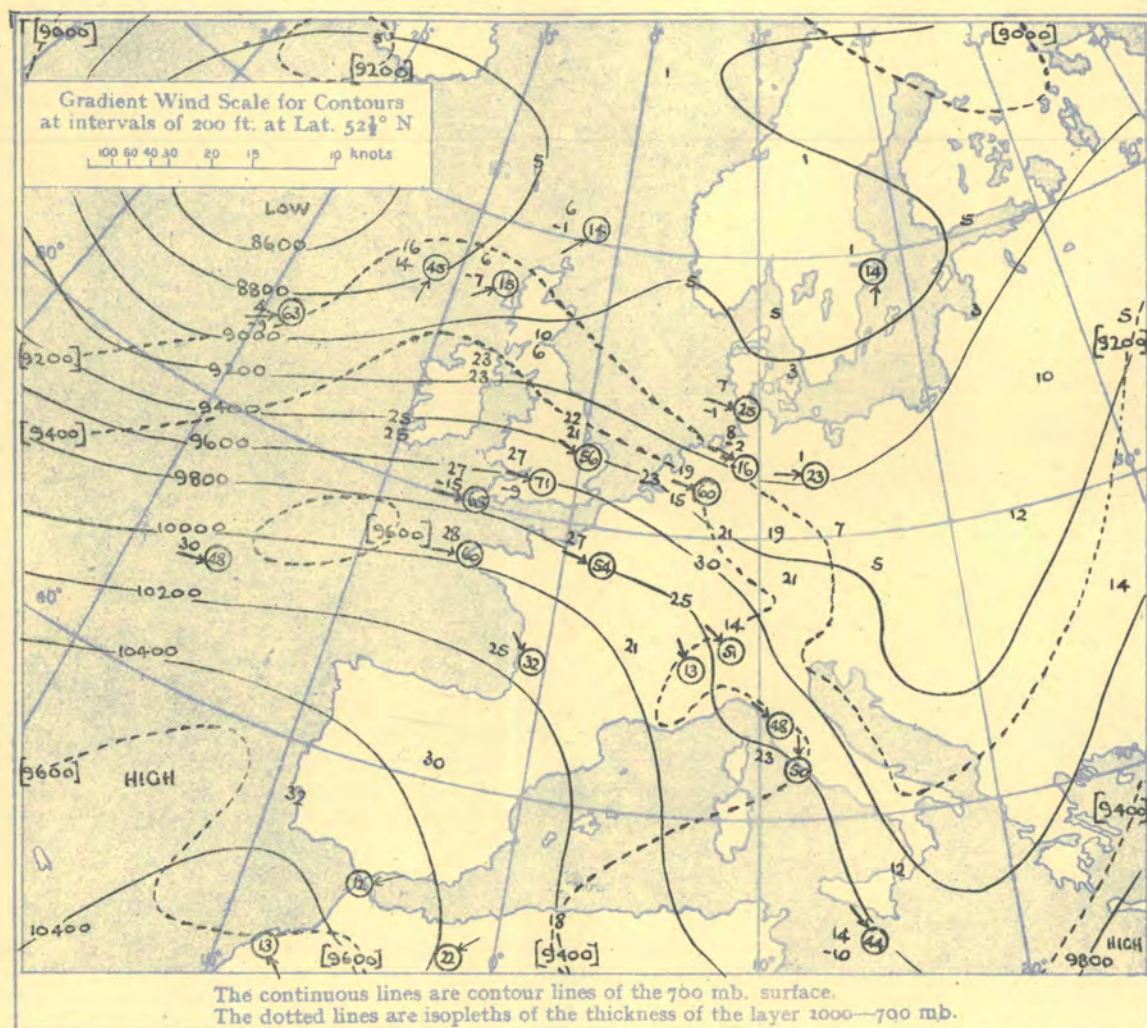
CONTOURS AND ANALYSIS of the 500 mb. PRESSURE level at about 1500 G.M.T. Thursday 9th February, 1950.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Thursday 9th February, 1950.



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 0300 G.M.T.



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

51-3N 00-4W				52-6N 10-1E																													
Pressure Time M.S.L. Surf Freezing	15h. 9/1			09h. 10/1			mb			mb			mb			mb			mb			mb			mb			mb			Time M.S.L. Surf Freezing		
	1004-0 mb			1000-4 mb			mb			mb			mb			mb			mb			mb			mb			mb			mb		
	992-5 mb			996 mb			mb			mb			mb			mb			mb			mb			mb			mb			mb		
	800 mb			930 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	03-1	42	42		33	32																						Surf					
1000	01-2			1																								1000					
950					33	31																						950					
900	29-4	38	33		30	30																						900					
850		31	31		25																							850					
800		31	31		22																							800					
750		28	28		18																							750					
700	35-2	19		92-4	16																							700					
650		14			8																							650					
600	13-4	8			8																							600					
550		1			-1																							550					
500	17-3	-7		17-6	-9																							500					
450		-17			-19																							450					
400	23-2	-30			-27																							400					
350		-42			-40																							350					
300	29-5	-56		29-3	-52																							300					
250																												250					
200	Cloud			Cloud																								200					
170	8/8 Sc			7/8 Sc																								170					
	810-675-6			910-880-6																													
	818 Ast.			Inversion																													
	550-525-6			996-633-0																													
				977 " 34°																													
	Inversion			Isothermal																													
	993-642-0			958-940-6																													
	975 " 43°			33°																													
	Isothermal			650-600-6																													
	850-800-671°			8°																													
	Faint																																
	persistent																																
	contrails																																
	333-300-6																																

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

Friday 10th February 1950

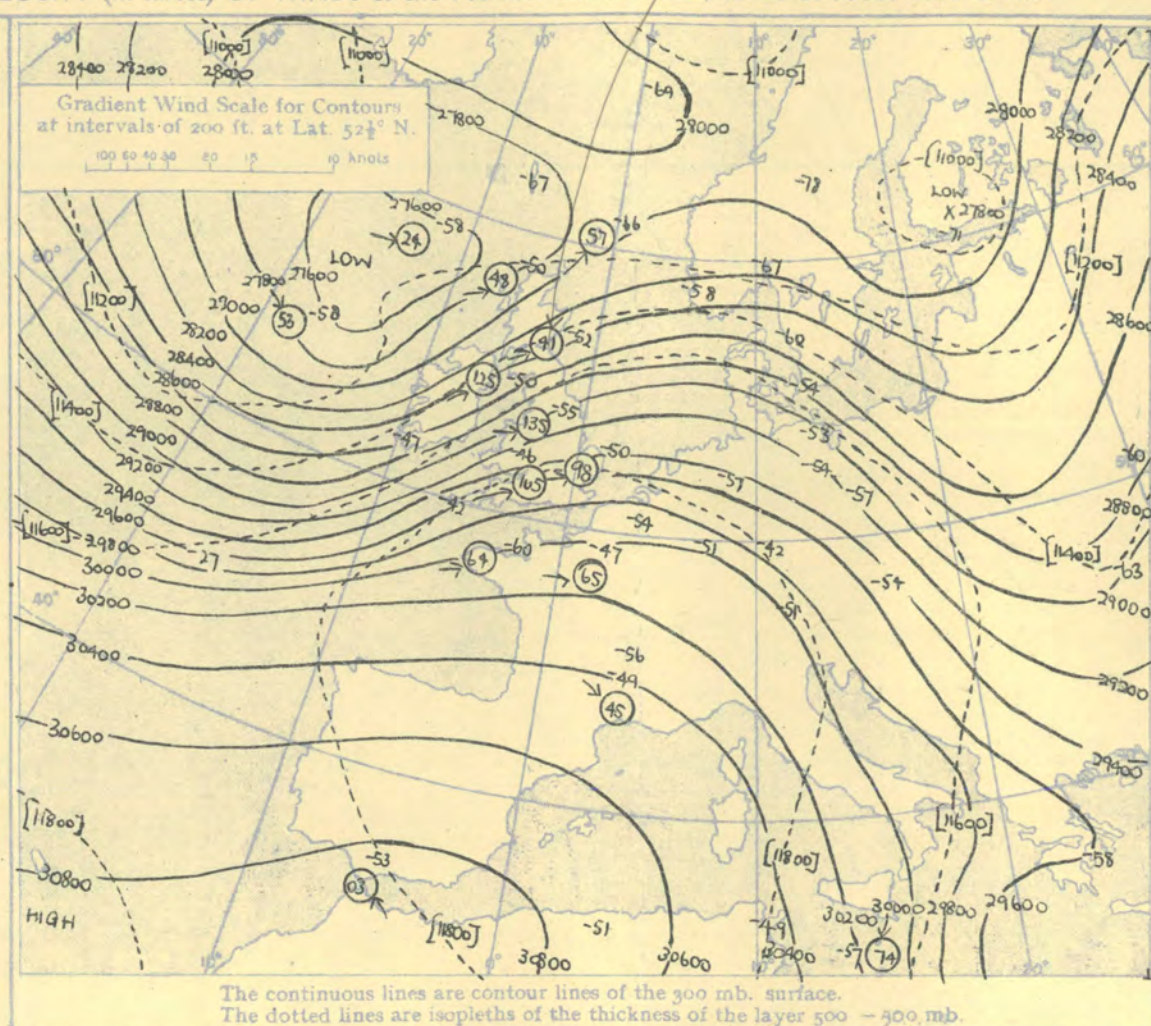
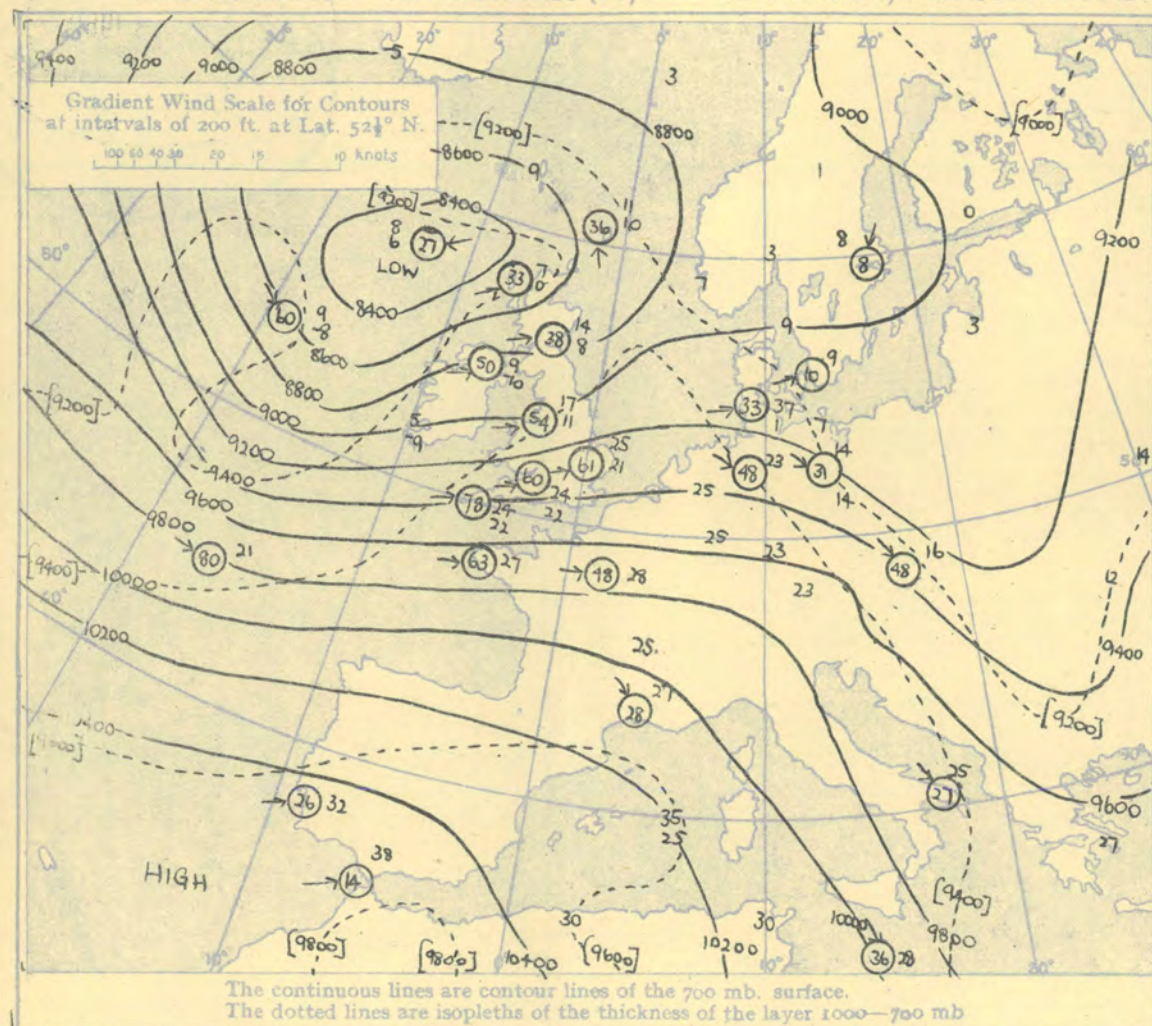
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				Valentia				STATION																											
Time		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		Time																															
M.S.L.		990.8		mb		988.8		mb		993.6		mb		991.4		mb		991.4		mb		997.6		mb		1002.9		mb		1008.4		mb		M.S.L.																															
Surf		980.7		mb		986.5		mb		992.7		mb		992.8		mb		993.2		mb		993.2		mb		997.0		mb		997.1		mb		Surf																															
Freezing		910		mb		900		mb		930		mb		820		mb		790		mb		790		mb		740		mb		742		mb		Freezing																															
Pressure		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Pressure																															
mb		ft./100		°F.		°F.		Dir. Vel.		ft./100		°F.		°F.		Dir. Vel.		ft./100		°F.		°F.		Dir. Vel.		ft./100		°F.		°F.		Dir. Vel.		mb																															
Surf		02.734		33		202		04		00.536		34		Calm		00.236		33		02.3		45		44		01.2		48		47		210		05		4.4		51		50		270		20		02.9		52		51		250		27		00.3		53		51		Surf			
1000		-2.5		37		33		205		16		38		29		19		12		02.4		44		43		01.1		48		47		256		36		46		45		257		48		50		43		50		43		Surf													
950		25.3		31		27		206		16		25		13		22		210		08		26		24		57.1		31		31		44		43		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf	
900		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
850		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
800		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
750		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
700		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
650		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
600		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
550		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
500		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
450		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
400		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
350		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
300		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
250		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
200		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
170		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
150		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
130		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
110		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
100		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
90		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
80		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
70		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
60		25.3		21		209		16		24		13		210		08		26		24		57.1		31		31		44		44		275		43		23		44		265		33		30		6		41		265		54		276		45		45		Surf					
Tropopause		1265ms-65°		30900'		1242ms-74°		33100'		1200ms-80°		37400'		NR		NR		1182ms-95°		40100'		1154ms-95°		38600'		1156ms-80°		38800'		Tropopause																																			
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				Valentia				STATION																											
Time		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		Time																															
M.S.L.		987.7		mb		979.2		mb		985.9		mb		980.0		mb		985.1		mb		1000.6		mb		1002.6		mb		996.0		mb		M.S.L.																															
Surf		977.6		mb		971.2		mb		977.5		mb		988.0		mb		990.7		mb		994.7		mb		992.1		mb		985		mb		Surf																															
Freezing		918		mb		932		mb		822		mb		750		mb		749		mb		763		mb		763		mb		763		mb		Freezing																															
Pressure		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Pressure																															
mb		ft./100		°F.		°F.		Dir. Vel.		ft./100		°F.		°F.		Dir. Vel.		ft./100		°F.		°F.		Dir. Vel.		ft./100		°F.		°F.		Dir. Vel.		mb																															
Surf		02.735		35		35		Calm		00.537		36		130		12		02.3		45		43		01.2		50		48		220		20		4.4		51		47		240		17		02.9		52		49		233		32		Surf											
1000		-3.3		35		33		179		21		34		34		194		23		02.4		43		41		01.1		48		46		242		33		46		45		239		51		46		45		239		51		Surf													
950		24.6		30		29		175		13		23		4		29		157		26		24		53		37		260		51		38		274		54		35		38		262		53		40		40		255		60													

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

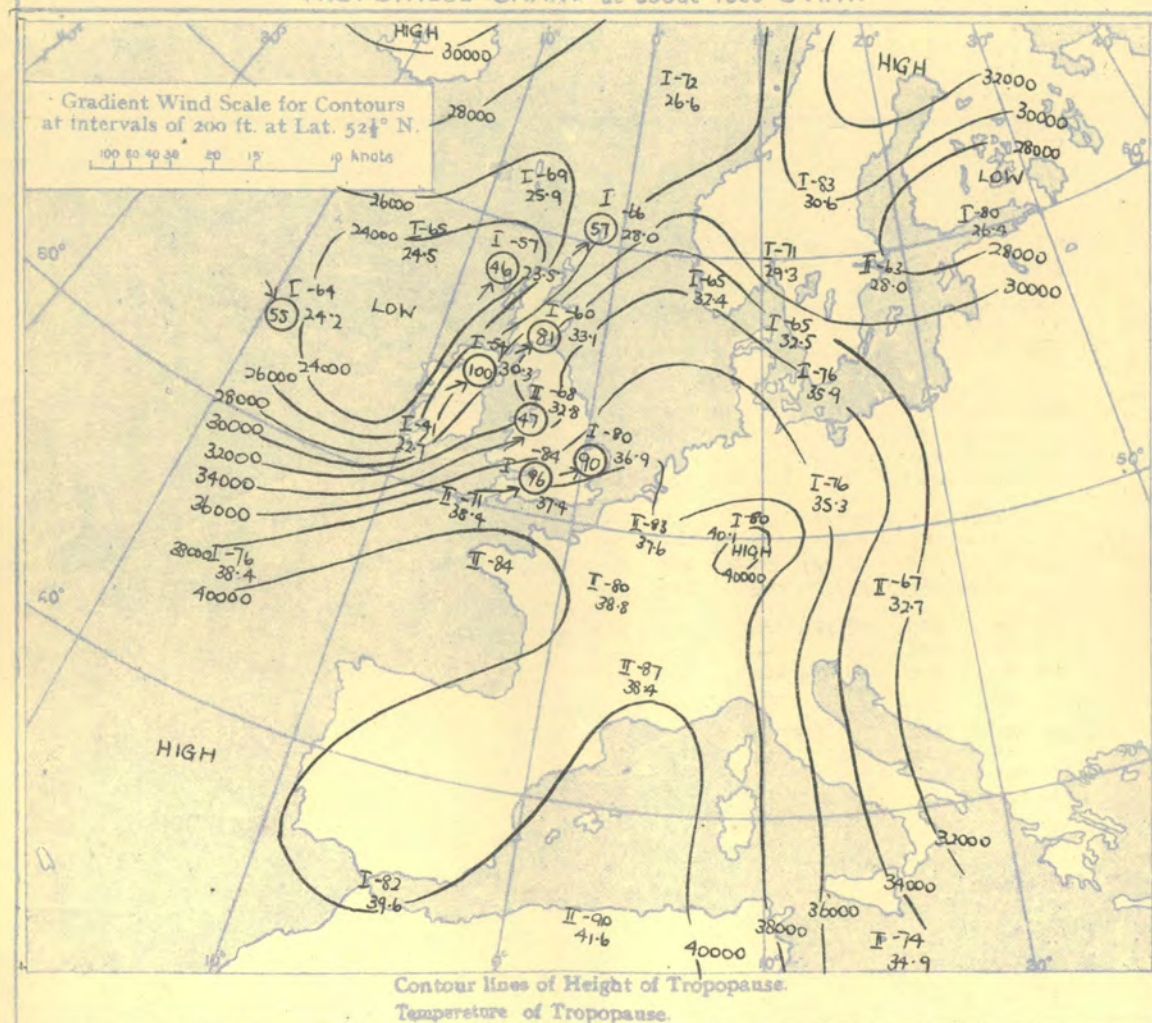
Friday 10th. February 1950

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				METEOROLOGICAL OFFICE																																																																																																																																																																																																																																																																				
Pressure mb	Time M.S.L.	Surf Freezing	1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.																																																																																																																																																																																																																																																																				
			978.5	mb	974.8	mb	978.4	mb	984.3	mb	986.2	mb	980.8	mb	994.6	mb	998.7	mb	992.3	mb	992.3	mb	992.3	mb	992.3	mb	992.3	mb	992.3	mb	992.3	mb	992.3	mb	992.3	mb	992.3	mb																																																																																																																																																																																																																																																																			
			966.7	mb	972.8	mb	977.5	mb	975.7	mb	984.2	mb	986.4	mb	978.8	mb	987.5	mb	981.1	mb	981.1	mb	981.1	mb	981.1	mb	981.1	mb	981.1	mb	981.1	mb	981.1	mb	981.1	mb	981.1	mb	981.1	mb																																																																																																																																																																																																																																																																	
Pressure mb	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.	Wind Dir. Vel.	Temp. °F.	Dew °F.

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

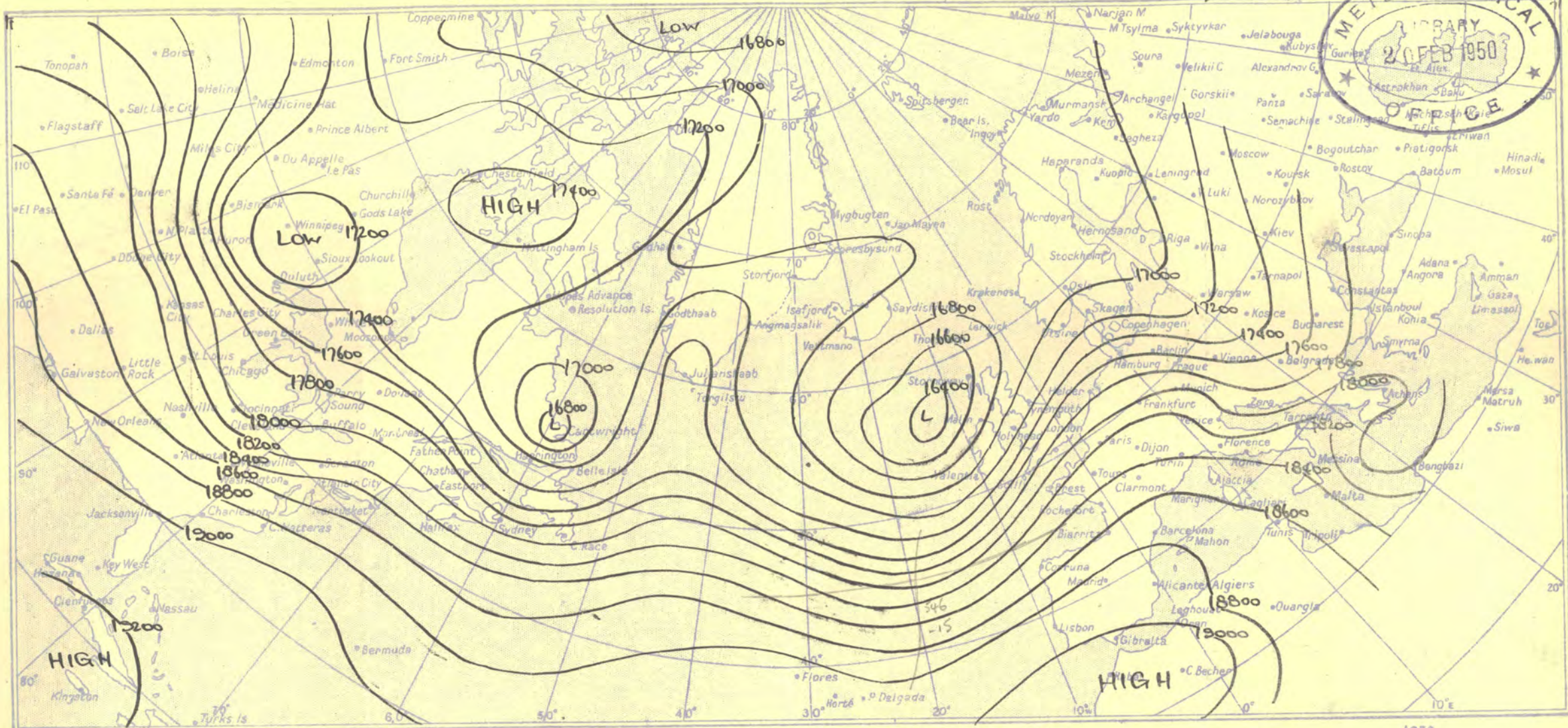


NOTES ON THE AEROLOGICAL SITUATION.

The very strong southwesterly jet stream associated with the surface cold fronts moved across the British Isles into West Germany. Fairly uniform but very unstable air then covered the British Isles and adjacent areas. Some warming occurred in the Western Atlantic and a ridge developed in association with a deepening surface depression.

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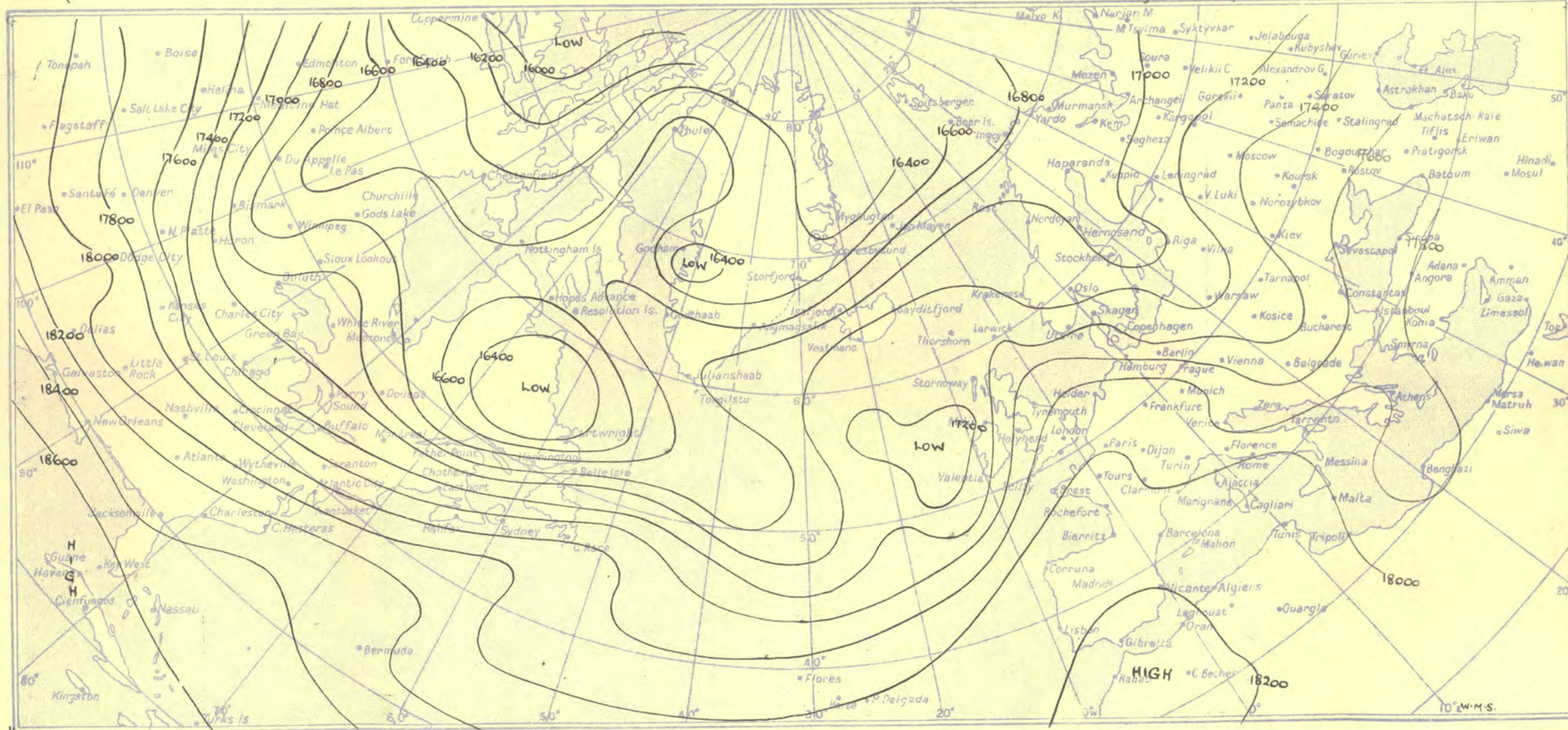
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



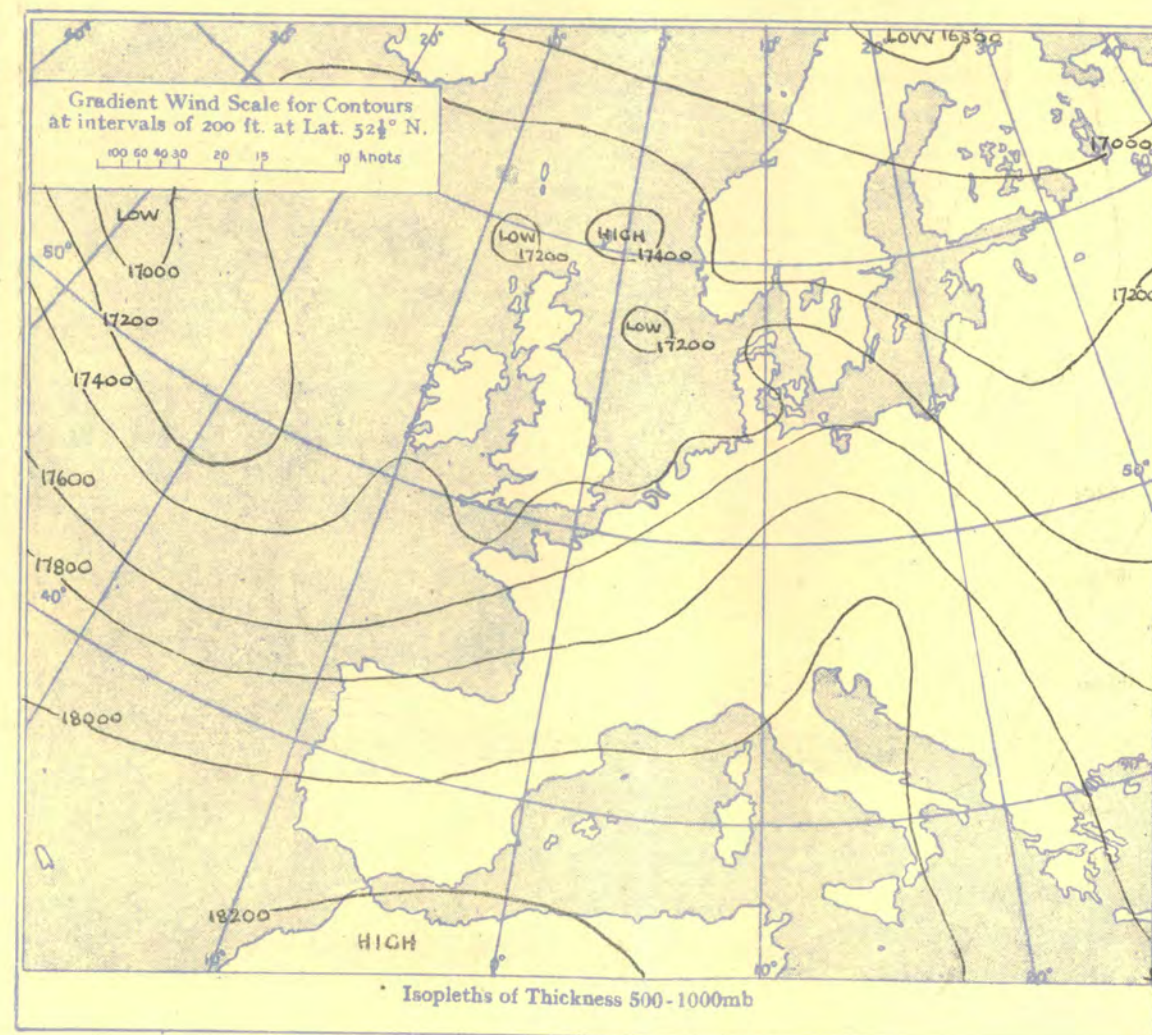
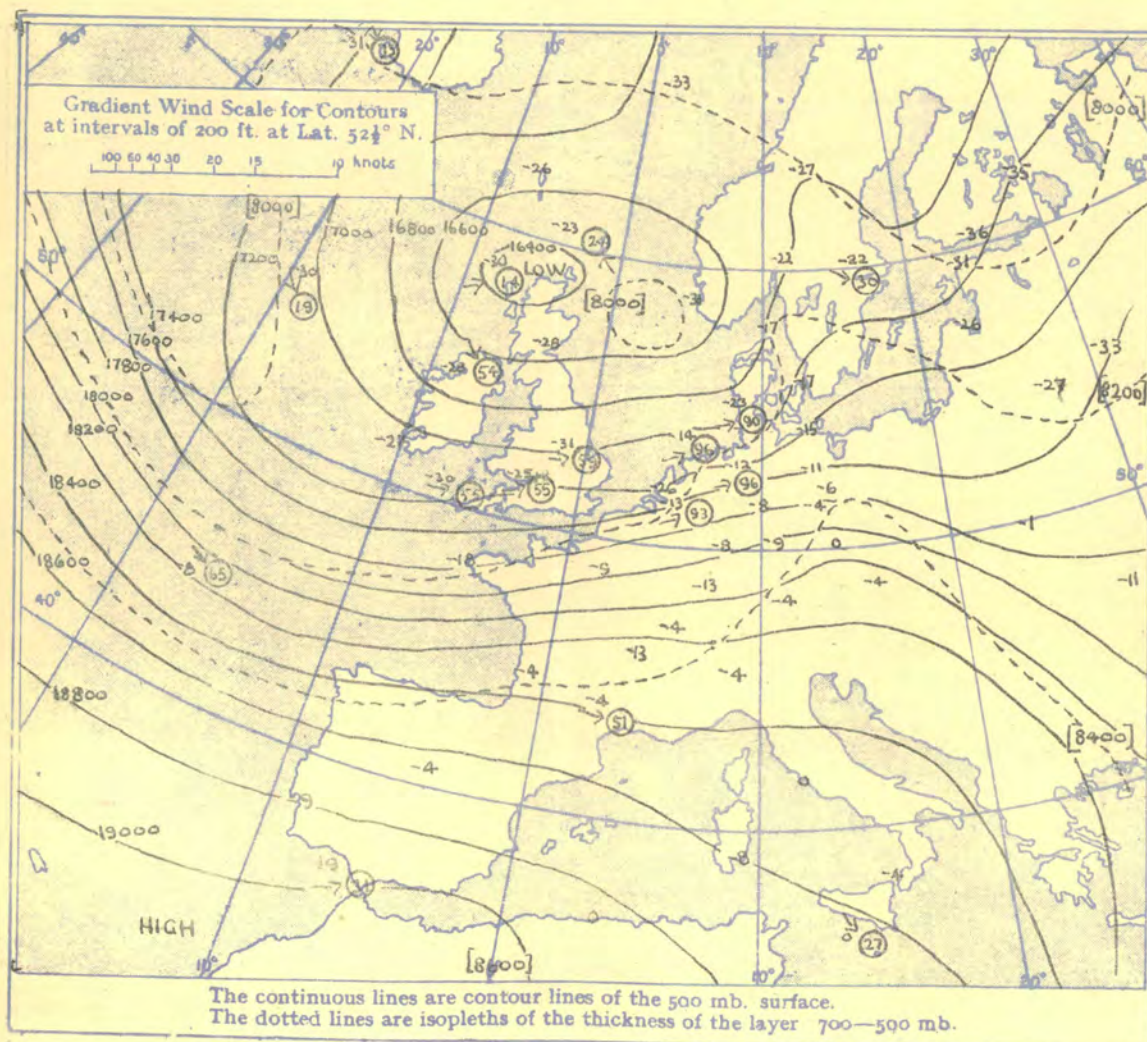
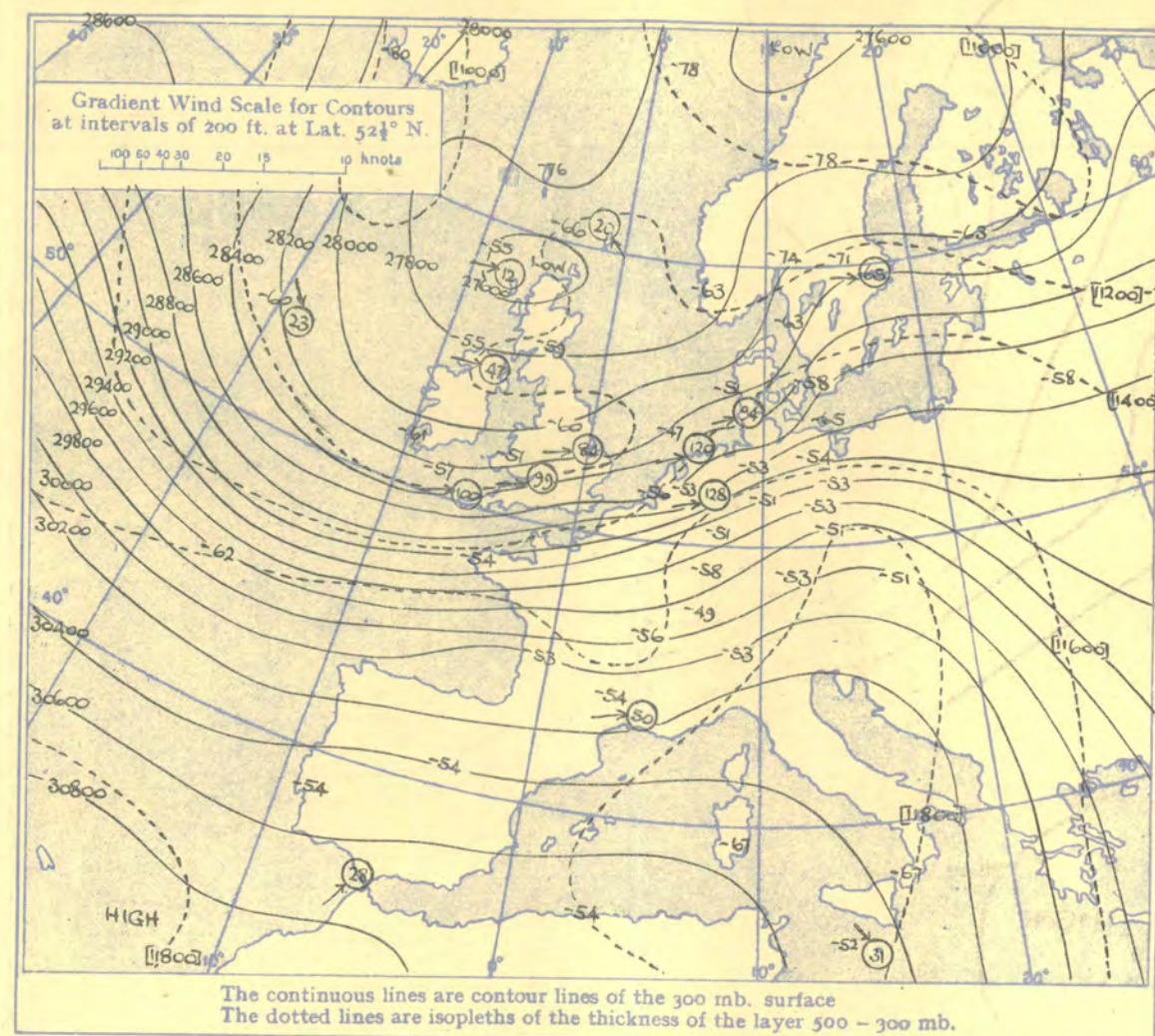
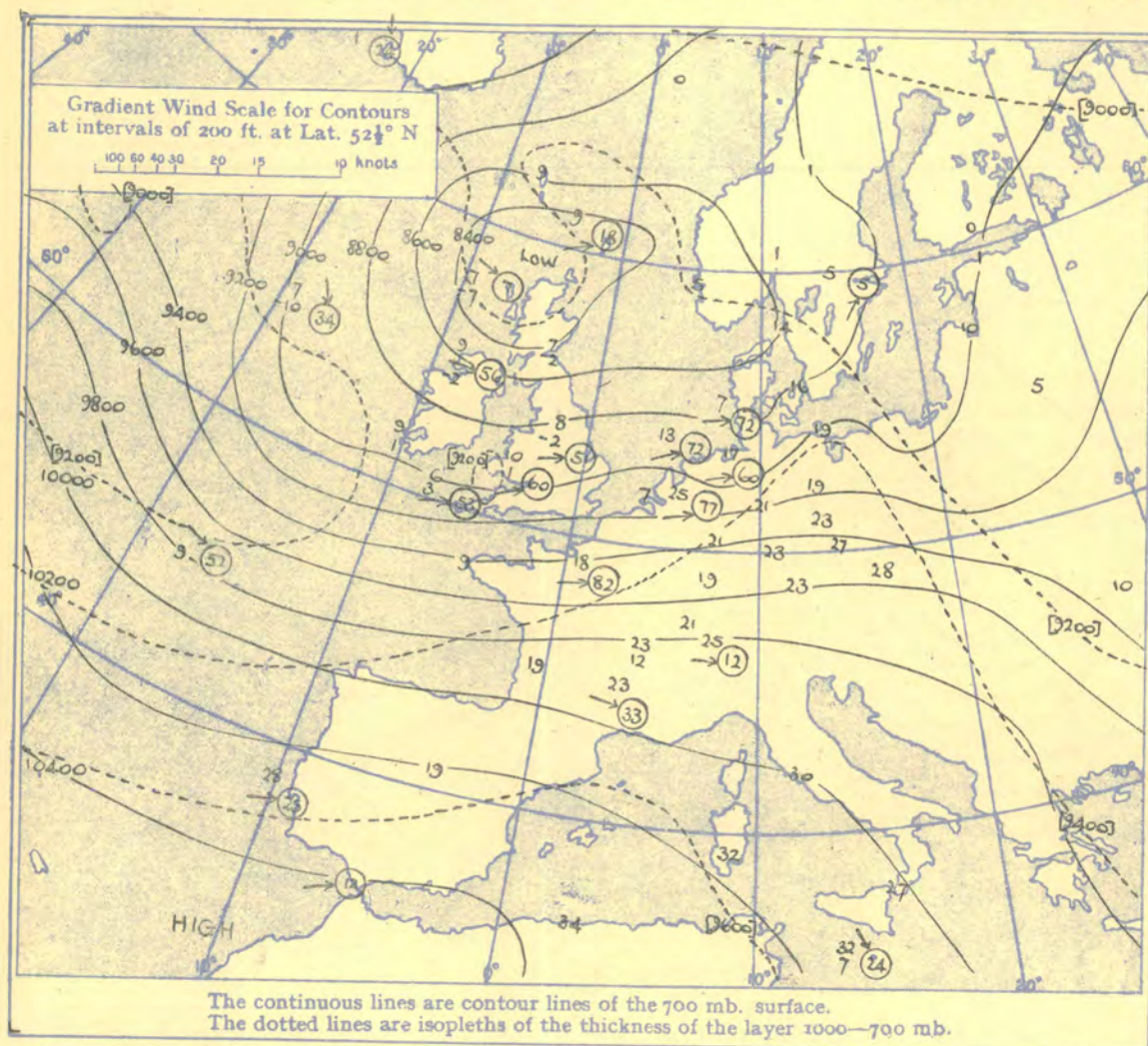
ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T.

Friday 10th February,

1950.



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 0300 G.M.T.



[illegible]

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

Ship	WEATHER OBSERVER				WEATHER OBSERVER				WEATHER OBSERVER				WEATHER WATCHER				WEATHER RECORDER				WEATHER RECORDER				Ship											
Lat/Long	59.6 N 19.0 W				53.8 N 18.7 W				59.5 N 18.0 W				54.0 N 17.4 W				59.3 N 17.3 W				53.7 N 17.9 W				59.2 N 17.0 W				Lat/Long							
Pressure { Time M.S.L. Surf Freezing	15h 10/2 G.M.T.				15h 10/2 G.M.T.				21h 10/2 G.M.T.				21h 10/2 G.M.T.				03h 11/2 G.M.T.				03h 11/2 G.M.T.				09h 1/2 G.M.T.				09h 1/2 G.M.T.				G.M.T. mb M.S.L. Surf Freezing			
	977 mb				976 mb				980 mb				979 mb				998 mb				982 mb				995 mb				985 mb							
	977 mb				976 mb				980 mb				979 mb				998 mb				982 mb				995 mb				985 mb							
	920 mb				890 mb				900 mb				885 mb				885 mb				900 mb				920 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	Pressure mb							
Surf																												Surf								
1000	-6.1	41	40	042 18	-6.4	44	39	277 37	-5.5	43	36	020 26	-5.8	43	41	290 20	-3.2	45	40	310 30	-4.9	41	38	351 39	-1.4	45	43	300 30	-4.0	41	40	015 25	1000			
950		37	35	026 20		41	34	277 39		39	29	015 33		40	32	305 31		40	34	302 42		34	31	348 42		39	38	300 44		36	35	018 47	950			
900	21.8	29	26	026 18	21.7	34	24	277 45	22.5	32	24	012 30	22.5	34	27	289 41	24.9	34	27	303 44	23.3	34	31	348 42	26.8	32	31	299 42	23.9	30	30	014 47	900			
850		23	19	036 20		27	10	284 53		24	17	007 33		28	22	280 47		27	19	313 46		28	24	348 42		24	23	300 40		24	23	010 41	850			
800	52.2	17	08	043 22	52.3	22	-08	288 57	52.9	19	12	008 33	53.2	23	17	276 43	55.5	20	12	320 42	53.9	22	17	348 44	57.3	19	14	302 40	54.3	19	18	004 38	800			
750		12	01	051 24		16	-18	288 60		13	02	015 35		18	08	273 41		14	-08	327 26		16	68	349 45		14	-01	306 40		13	13	348 37	750			
700	85.9	05	-04	060 24	86.1	09	-08	287 60	86.6	06	-06	015 30	87.1	10	-09	272 42	87.2	07	-10	326 34	87.7	08	-01	353 45	91.0	06	-27	305 40	18.2	06	04	348 33	700			
650		-03	-11	067 24		02	-18	285 57		-02	-15	015 29		02	-26	281 43		00	-14	003 45		00	-14	003 45		-02	-26	303 36		-03	-04	009 29	650			
600	123	-11	-20	078 22	124	-07	-29	285 66	124	-10	-21	016 29	125	-06	-28	283 44	127	-10	-22	318 28	127	-09	-25	006 45	129	-11	-26	305 33	123	-11	-12	030 36	600			
550		-21	-30	086 23		-18	-41	285 65		-18	-32	016 28		-15	-49	283 38		-20	-30	319 27		-20	-36	004 45		-21	-36	305 39		-21	-23	035 39	550			
500		166	-32	-42	894 20	167	-30	-54	285 66	167	-30	-47	010 31	168	-26	-58	283 38	170	-30	-38	319 19	169	-32	-43	358 43	171	-32	-68	302 48	168	-32	-39	016 35	500		
450		-48			106 18	-40	-60	285 67		-42			007 31		-37	-60	283 42		-41		322 18		-43		000 45		-43		302 53		-44		003 32	450		
400	216	-35			140 22	217	-52		285 61	217	-53		353 26	219	-51		283 48		-53		322 21	218	-56		000 46	221	-54		302 51	218	-64		004 24	400		
350		-66			170 26			285 55		-65			335 28		-53		(394 mb)		-62		322 15		-68		358 44		-62		302 59		-69		005 21	350		
300		276	-76		106 14	278	-58		285 53	278	-79		313 30					281	-60		319 23	278	-74		349 40	282	-63		303 54	277	-71		346 21	300		
250							-52		285 57			(294 mb)										-67			343 30		-60		303 54		-74		317 28	250		
200			-64		291 4		-50		285 55													-65			318 26	369	-55		302 52	362	-64		308 30	200		
170					366																	-62			312 30		-55		302 55		-61		306 49	170		
150																											-55		(160 mb)						150	
130																						-62			305 40										130	
110																						-62			298 47										110	
100																						-57			293 48										100	
90																						-57			296 64										90	
80																						-60			293 66										80	
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60																																				60
isothermal																																				
707 - 695 mb 09°																																				
Tropopause	I 300 mb -76°				I 368 mb - 64°				I 200 mb - 79°				NR.				II 362 mb - 62°				I 305 mb - 75°				I 350 mb - 65°				II 333 mb - 75°				Tropopause			
	27,600'				24,200'				27,800'								24,300'				27,400'				26,700'				25,500'							

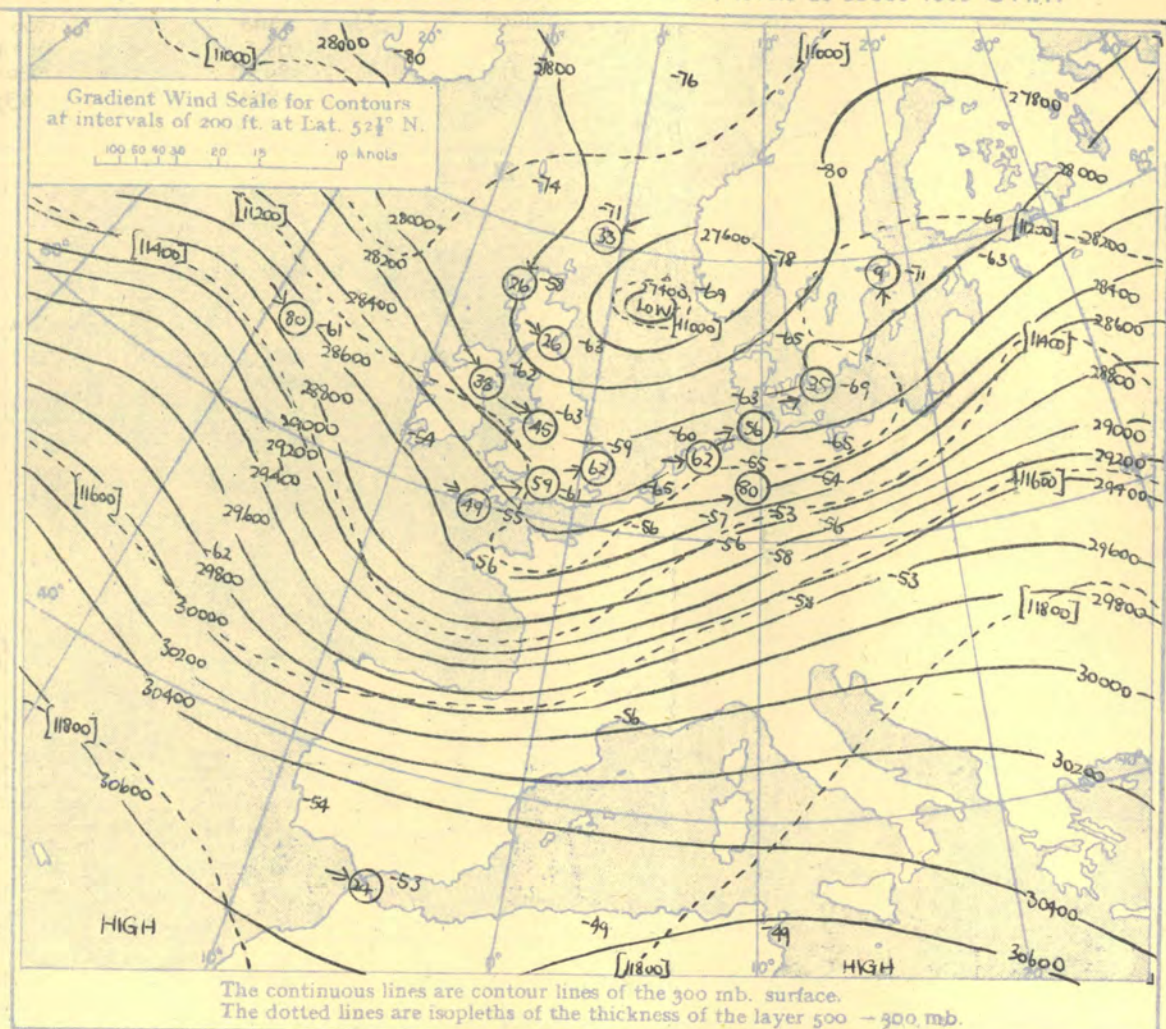
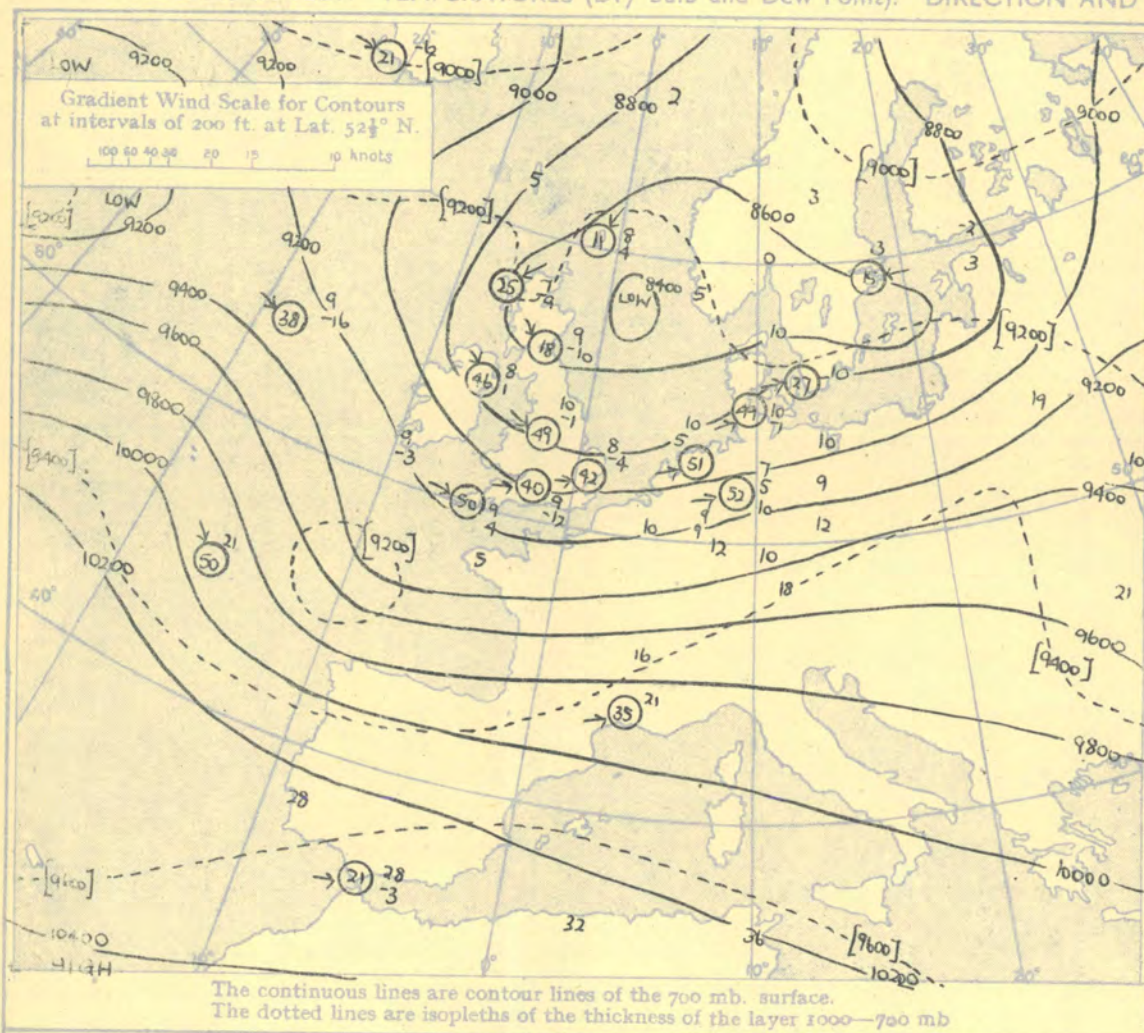
1950

Tropopause

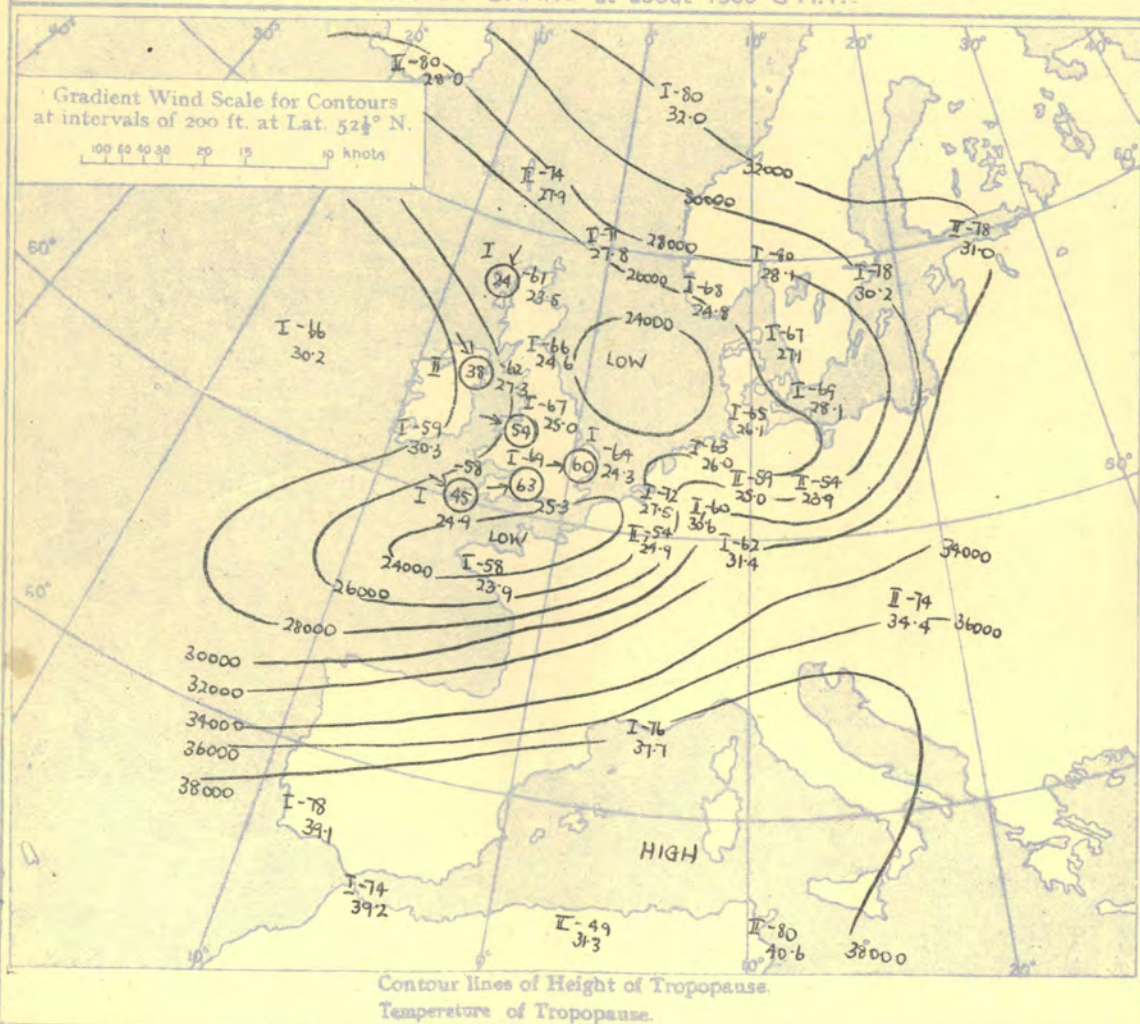
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION							
Pressure mb	Time M.S.L. Surf Freezing	1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.		1500		G.M.T.									
		973.0		mb		976.5		mb		974.3		mb		978.3		mb		982.1		mb		985.9		mb		971.3		mb		995.8		mb		977.1		mb									
		963.2		mb		974.5		mb		973.4		mb		969.8		mb		980.1		mb		981.5		mb		975.3		mb		985.2		mb		985.2		mb									
902		mb		920		mb		905		mb		904		mb		892		mb		898		mb		895		mb		888		mb		888		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	39	57	023	24	00.5	40	36	050	08	00.2	40	34	290	10	02.3	40	37	290	20	00.6	45	34	255	25	01.2	46	33		4.4	42	35	280	17	02.9	45	41	247	20	00.3	47	39	Surf		
1000	07.3					06.4				07.0						05.8					04.9					03.9					2.3				51.2					8			1000		
950		37	36	020	21		36	33	035	09		37	30	295	11		38	34	295	36		38	34	259	34		40	29				39	33	251	31		41	34	278	44		41	31	950	
900	20.7	32	31	022	19	21.6	31	29	043	17	21.0	32	25	309	10	22.1	31	30	298	48	23.3	33	24	254	47	24.3	33	23			25.8	32	25	259	39	27.0	34	27	281	38	27.4	35	28	900	
850		25	23	026	11		24	17	045	21		25	18	337	11		26	24	304	46		26	18	258	50		26	18				28	20	265	42		28	24	285	44		28	24	850	
800	51.3	20	18	026	09	52.0	18	10	047	23	51.5	18	15	343	10	52.7	20	17	307	47	53.9	20	12	269	47	54.8	20	12			56.4	22	10	269	43	57.7	22	20	286	48	58.1	22	16	800	
750		14	10	027	11		14	05	047	24		14	09	318	14		15	11	308	51		14	05	275	45		14	14				16	02	271	41		16	12	285	55		16	07	750	
700	85.0	08	04	037	11	85.6	07	09	040	25	85.2	09	10	305	18	86.5	08	01	310	46	87.6	10	01	271	49	88.5	08	04			90.2	09	12	269	40	99.2	09	04	284	50	91.9	09	03	700	
650		00	03	047	12		01	12	041	24		00	19	299	18		01	01	305	56		01	13	270	51		01	15				01	20	268	43		02	05	284	45		01	12	650	
600	12.3	08	03	044	09	12.3	09	22	043	27	12.3	09	27	293	21	12.4	08	03	304	49	12.5	08	24	270	50	12.6	10	22			12.8	07	22	266	46	13.0	05	23	285	44	13.0	07	21	600	
550		17	21	031	09		18	33	040	23		18	35	294	24		18	25	305	46		17	33	269	53		19	29				18	31	267	54		14	22	294	63		16	31	550	
500	166	27	32	022	10	166	29	45	035	27	166	27	43	293	31	167	28	39	303	43	168	28	43	269	54	169	30	41			171	28	43	260	62	173	24	33	297	40	173	25	41	500	
450		38	45				40	55	032	23		38	53	284	37		40	51	301	38		40	53				43						41		254	61		35	44	296	40		36	53	450
400	21.6	48		030	12	21.6	52		032	27	21.6	50		275	46	21.7	51		293	40	21.8	52				54	21.9	54			22.1	54		254	61	22.3	47		30.4	37	22.3	46		400	
350		59		042	30		60		038	30		64		284	47		55		290	43		62				54		63				67		256	63		57		282	45		52		350	
300	277	71		051	33	278	58		011	29	277	63		292	26	279	62		300	38	280	63				45	280	59			282	61		268	59	286	55		278	49	286	54		300	
250		67		347	11		58		331	24		62		286	31		60		288	47		57				50		57				59		260	63		56		267	61		250			
200	362	63		297	15	365	58		319	26	363	58		283	36	366	50		285	54	367	53				52		57			369	54		263	64	373	50		271	63	373	53		200	
170		62		273	25		57		296	21		55		279	39		54		294	36		55				52		57				55		265	57		51		272	60		170			
150		62		272	31	427	57		288	30		55		276	44	429	54		295	36		58				53	430	52			431	57		266	56		52		275	60		150			
130		61		276	41							54		275	43		52					55				56		56				57		266	62		51		279	60		130			
110	(60)	60		271	48						513	56		276	50		50					48				57	517	58			518	57		268	57	524	53		54		272	59		110	
100		59										54		278	49		51					47				57	517	53				57		266	54		54		269	61		100			
90												54		280	50		52					49				57	517	53				53		268	53		54		271	53		90			
80												54		281	56		50					45				57	517	51				50		271	50		54		277	52		80			
70												54		283	56		50					43				57	517	48				50		271	50		54		276	52		70			
60												54		281	56		50					43				57	517	48				50		271	50		54		276	52		60			
												54		283	56		50					43				57	517	48				50		271	50		54		276	52					
												54		281	56		50					43				57	517	48				50		271	50		54		276	52					
												54		283	56		50					43				57	517	48				50		271	50		54		276	52					
												54		281	56		50					43				57	517	48				50		271	50		54		276	52					
												54		283	56		50					43				57	517	48				50		271	50		54		276	52					
												54		281	56		50					43				57	517	48				50		271	50		54		276	52					
												54		283	56		50					43				57	517	48				50		271	50		54		276	52					
												54		281	56		50					43				57	517	48				50		271	50		54		276	52					
												54		283	56		50					43				57	517	48				50		271	50		54		276	52					
												54		281	56		50					43				57	517	48				50		271	50		54		276	52					
												54		283	56		50					43				57	517	48				50		271	50		54		276	52					
												54		281	56		50					43				57	517	48				50		271	50		54		276	52					
												54		283	56		50					43				57	517	48				50		271	50		54		276	52					
												54		281	56		50					43				57	517	48				50		271	50		54		276	52					
												54		283	56		50					43				57	517	48				50		271	50		54		276	52					

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

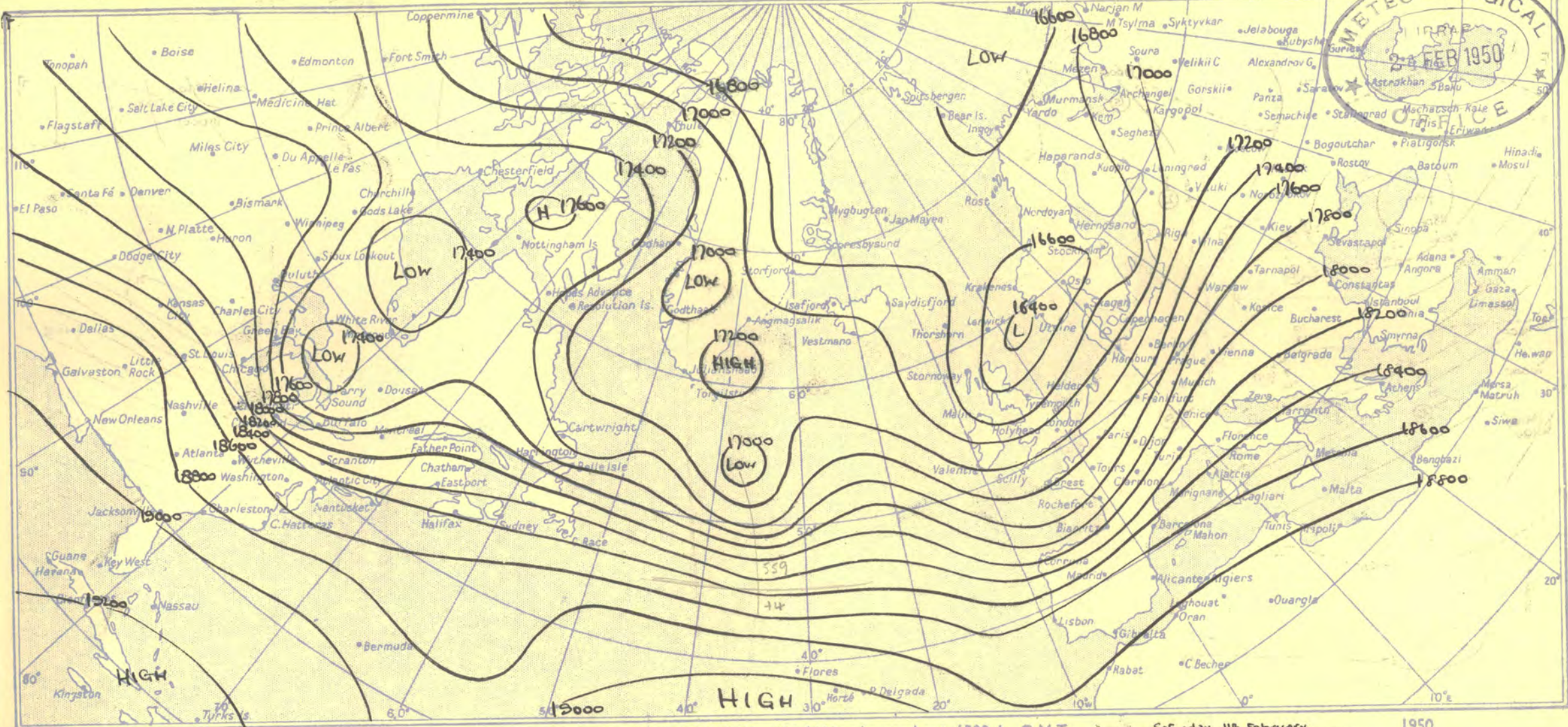


NOTES ON THE AEROLOGICAL SITUATION.

A warm ridge associated with a deepening depression moved quickly across the Atlantic. Behind the depression cold air began to spread southeast producing a marked upper trough which also moved steadily eastwards. Cold unstable air covered most of 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.

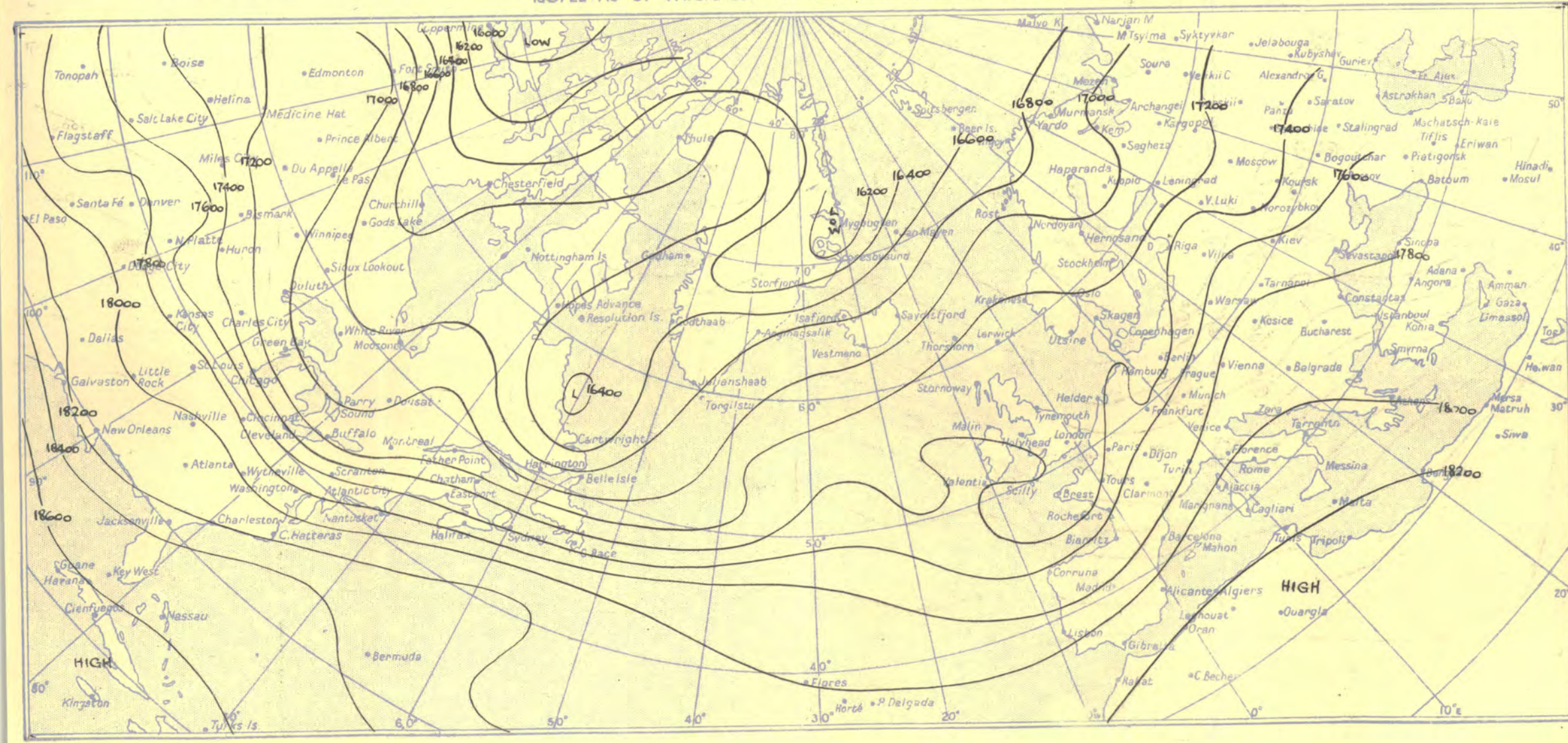
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



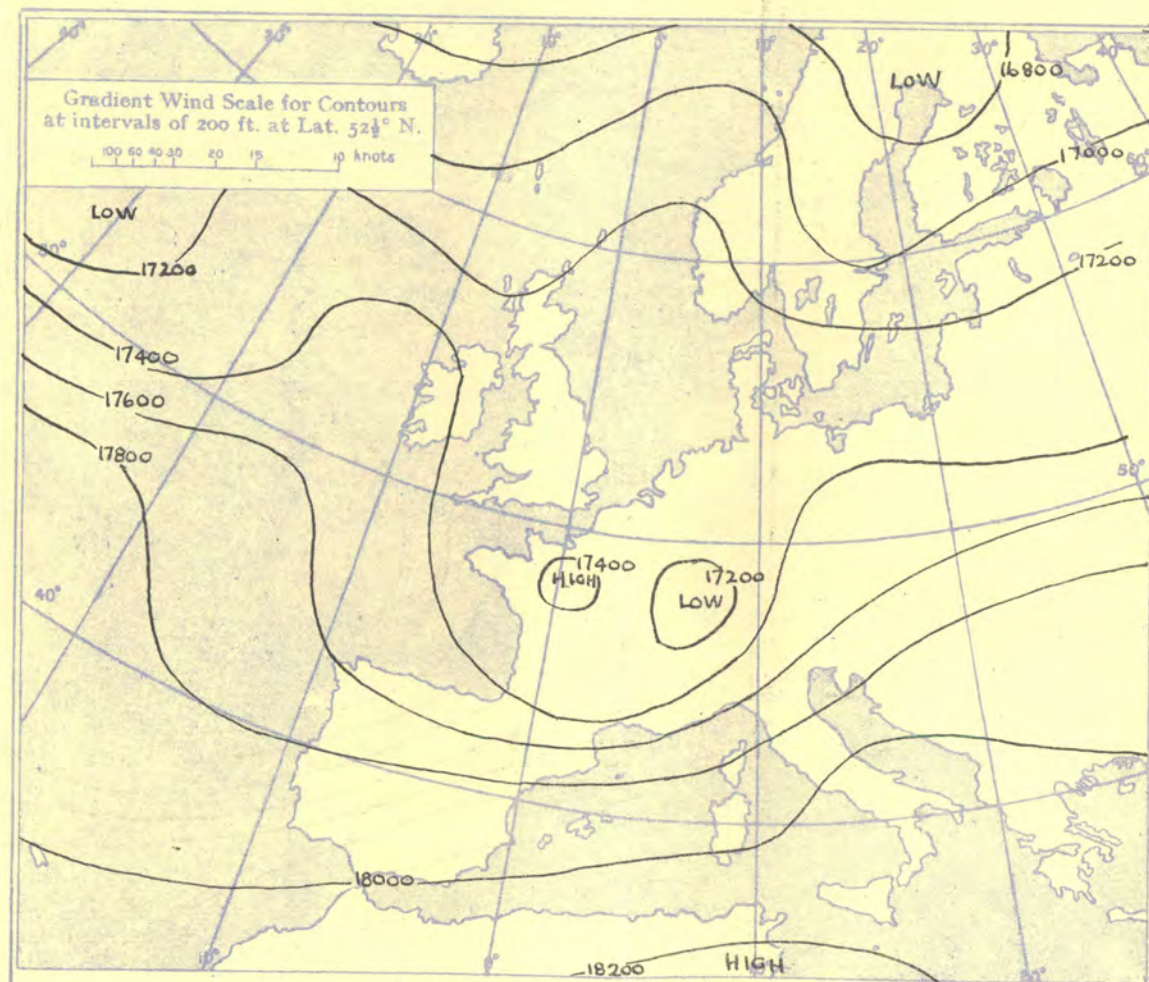
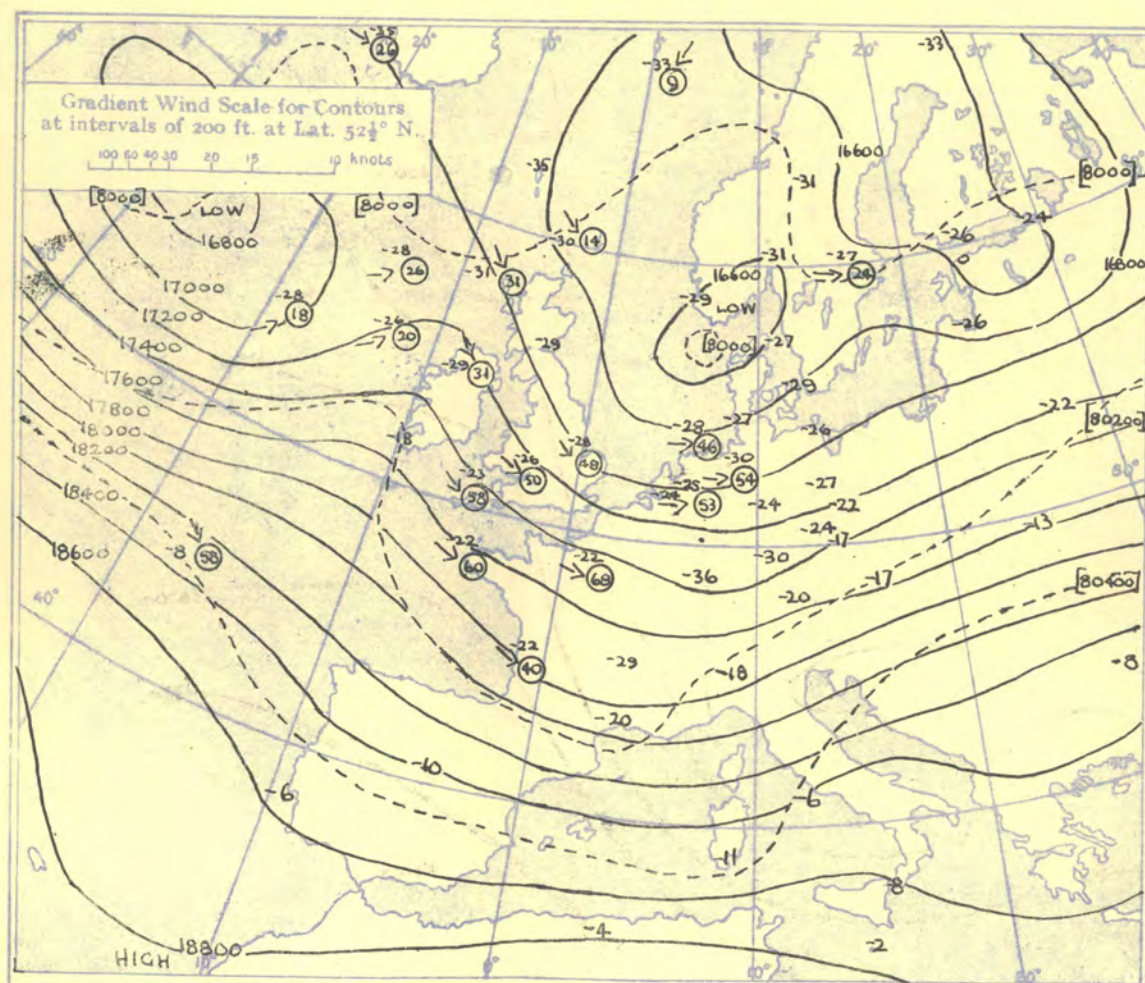
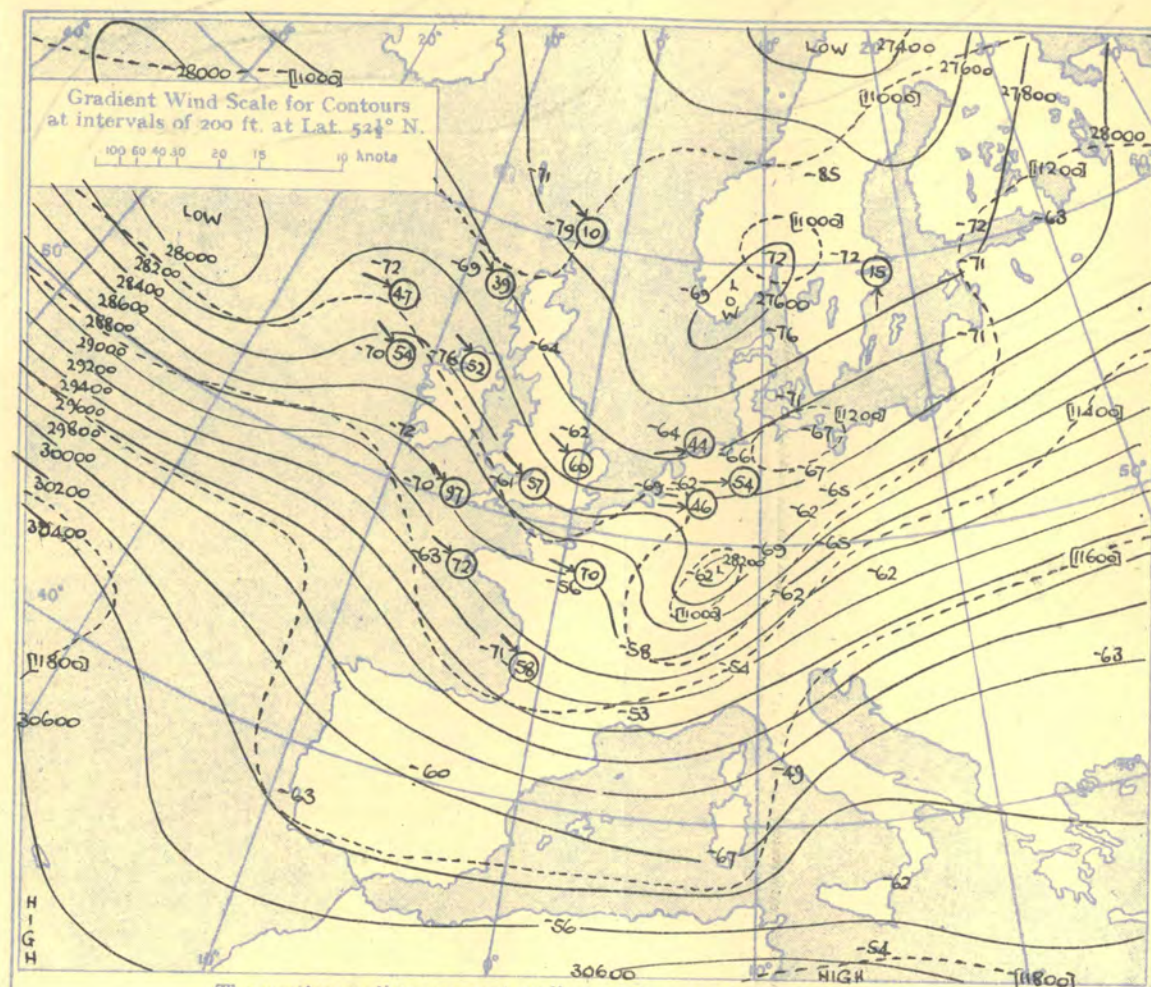
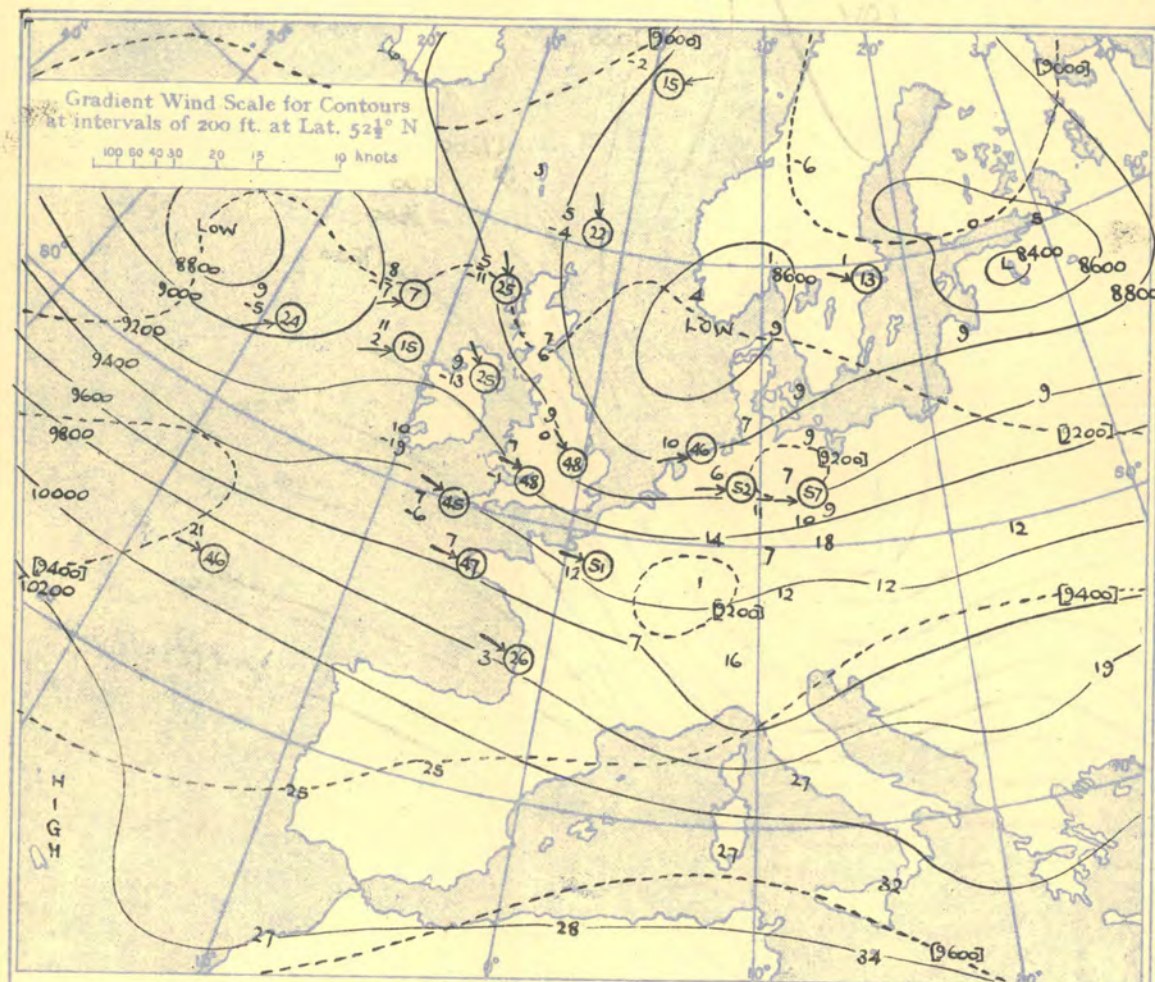
ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T.

Saturday 11th February,

1950.



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 0300 G.M.T.



[illegible][illegible]

Sunday 12th February 1950

[illegible]

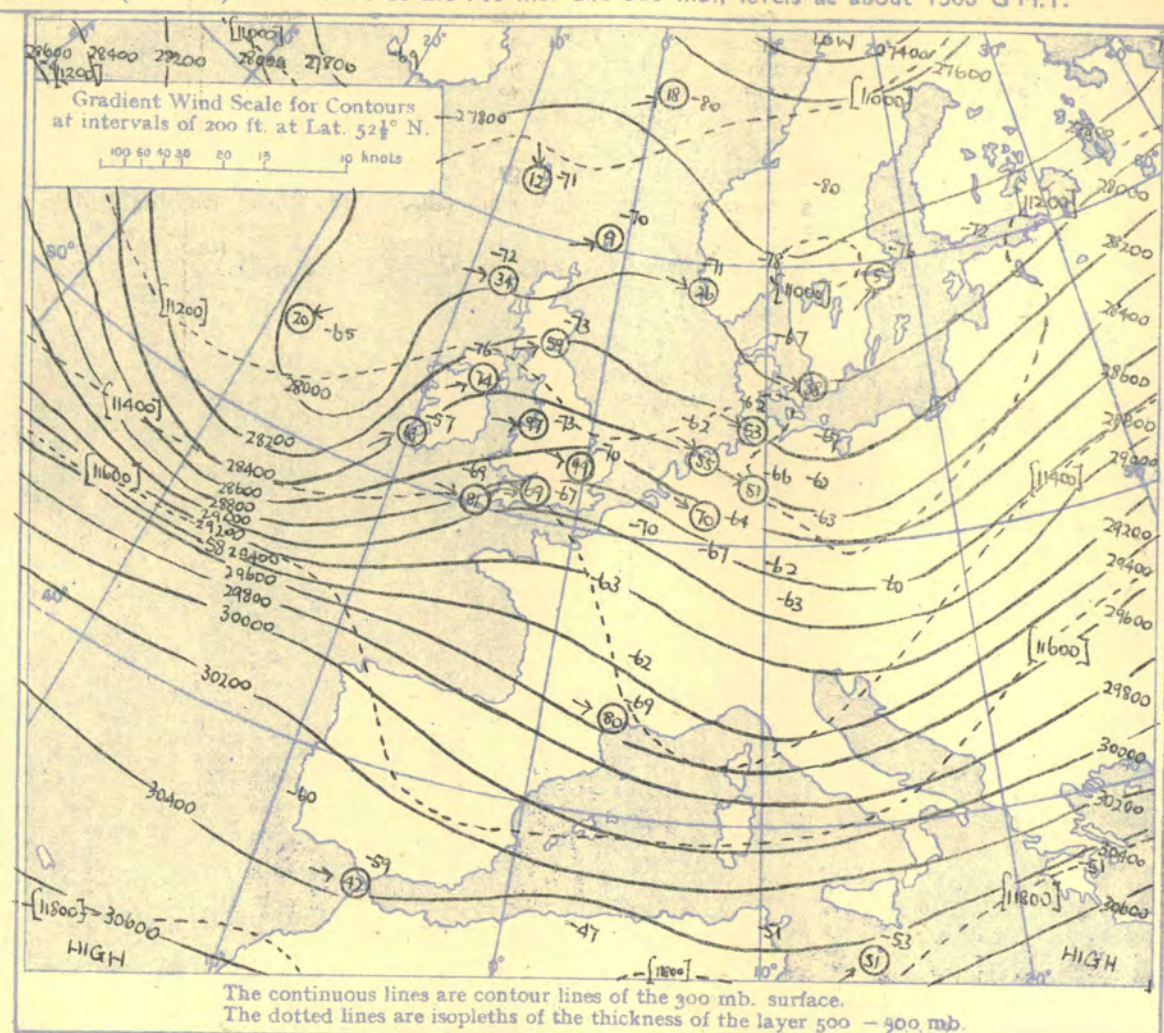
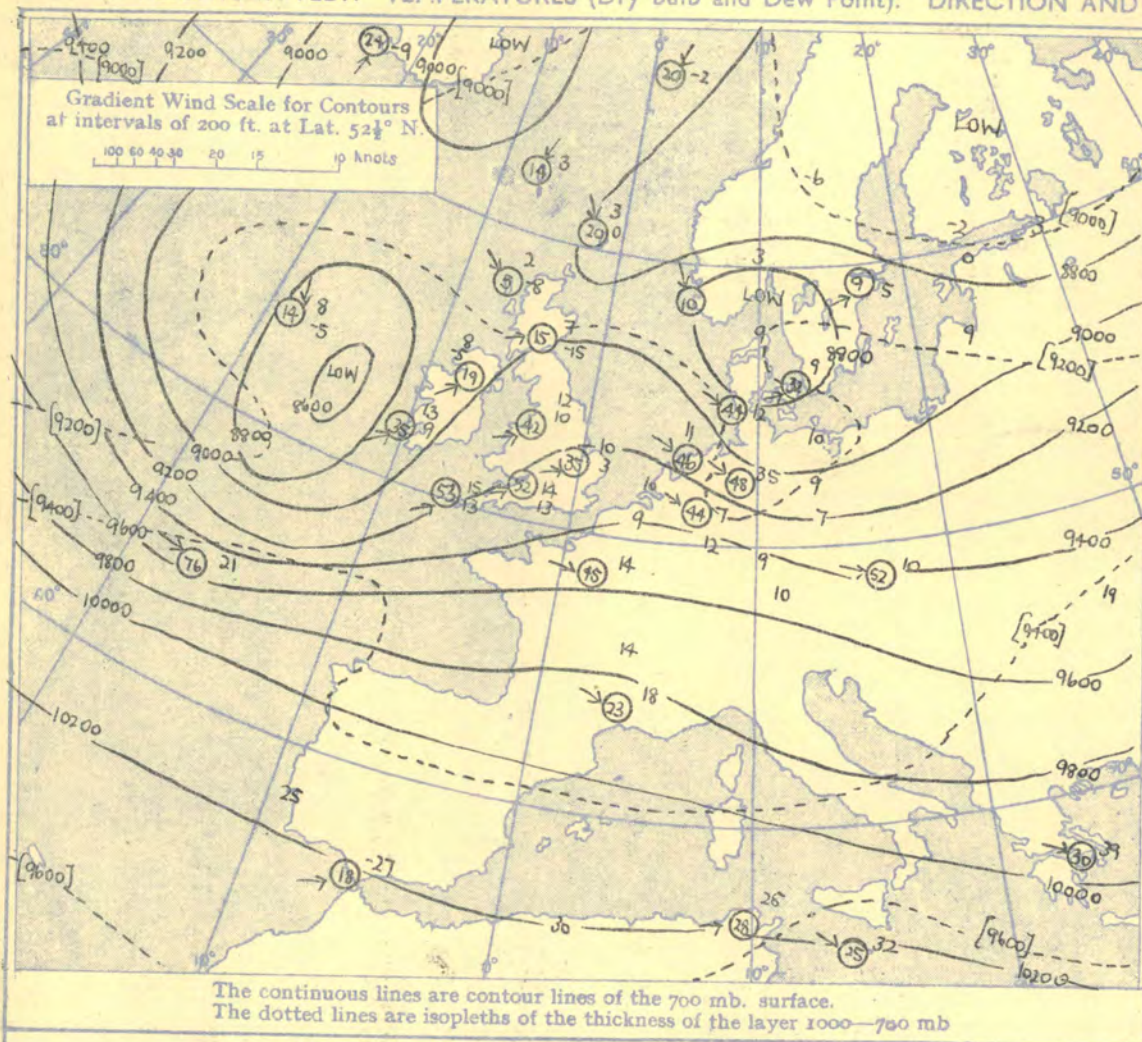
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

TELEOLOGIC 1950

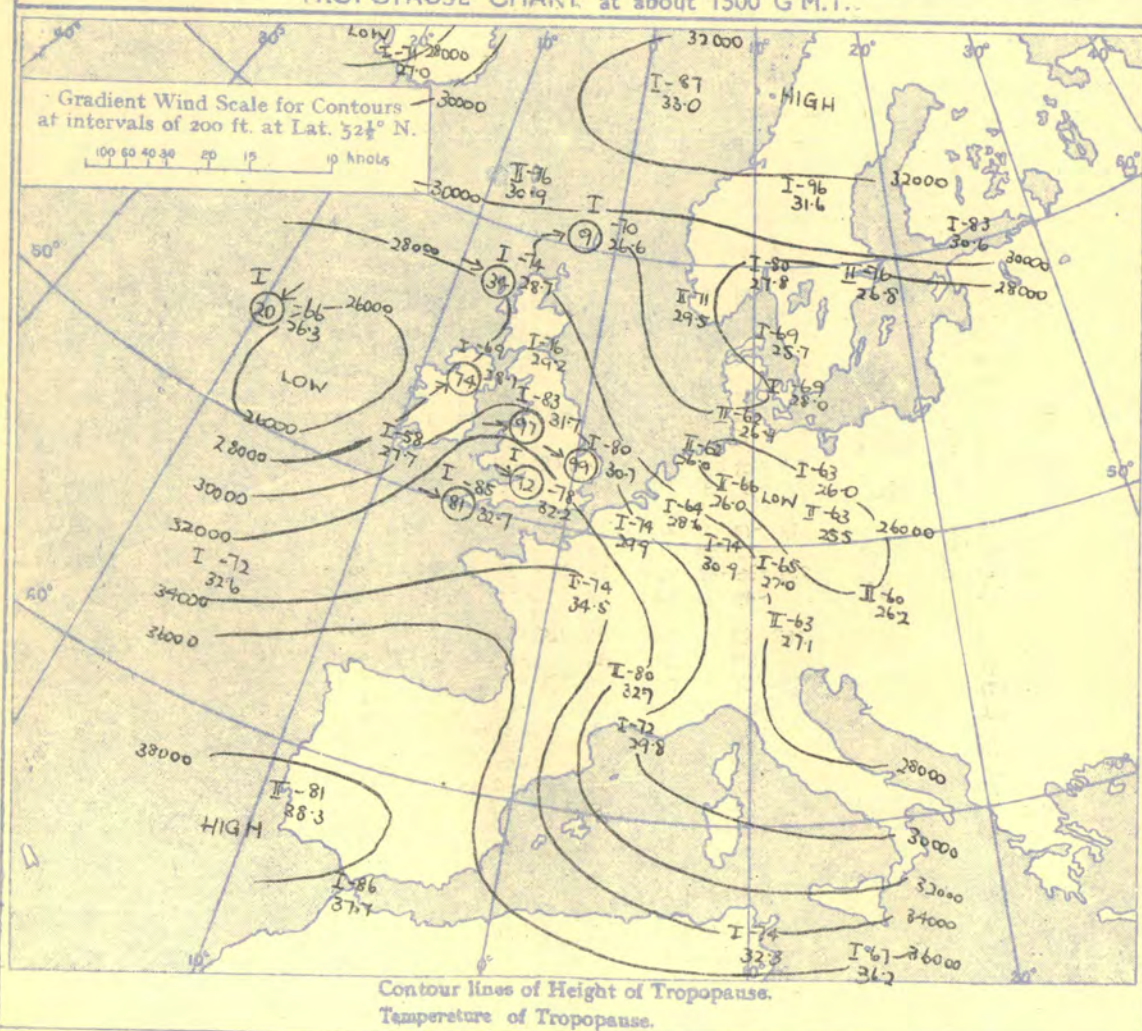
22 FEB 1950

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION	
Pressure Time M.S.L. Surf Freezing	1500h		G.M.T.		1500h		G.M.T.		1500h		G.M.T.		1500h		G.M.T.		1500h		G.M.T.		1500h		G.M.T.		1500h		G.M.T.		1500h		G.M.T.		1500h		G.M.T.			
	986		mb		992.4		mb		992.3		mb		989.8		mb		993.3		mb		995.1		mb		997.2		mb		993.4		mb		983		mb			
	976		mb		990.5		mb		991.4		mb		981.2		mb		991.2		mb		994.7		mb		981.2		mb		983.0		mb		982		mb			
	933		mb		938		mb		940		mb		908		mb		925		mb		885		mb		849		mb		850		mb		850		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	2.7	35	33	337 10	0.5	33	32	050 05	0.2	40	31	Calm	2.3	40	37	120 09	0.6	40	37	170 15	1.2	43	37	210 10	4.4	45	44	235 22	2.9	49	46		0.3	44	40	70 12	Surf	
1000	-37				-20				-21				-27				-18				-02				-08					-18				-46				1000
950		33	29	335 19		34	27	615 03		34	24	281 07		36	33	169 18		35	31	169 21		38	32	226 24		42	41	216 39		44	41		40	36	189 20		950	
900	24.1	29	22	345 24	25.8	27	20	005 03	25.7	28	18	280 09	25.2	31	28	172 18	26.1	30	27	180 26	27.9	33	26	241 27	27.5	37	37	223 10	26.6	37	36		35	32	190 20		900	
850		24	19	343 22		20	13	350 03		24	11	279 10		25	22	192 29		25	22	192 29		28	13	242 28		33	33	232 51		32	31		32	28	223 20		850	
800	54.4	17	13	341 23	55.9	14	06	338 05	56.2	19	02	275 07	55.9	22	20	205 19	56.6	22	20	210 39	58.5	22	08	237 27	58.5	27	27	235 54	57.5	26	25		27	21	231 30		800	
750		10	05	339 23		08.04		332 05		14	-07	262 12		16	11	222 17		17	15	231 45		15	03	236 23		21	20	246 49		21	20		20	13	235 32		750	
700	87.8	03	00	332 20	89.2	02	08	299 05	89.9	07	-15	299 15	89.7	09	06	227 19	90.5	12	10	243 42	92.2	10	03	248 35	92.8	11	13	246 52	91.7	15	13		13	9	230 35		700	
650		-04	-10	316 18		-04.15		290 07		00	-24	256 17		02	-10	226 23		05	01	241 40		05	01	260 49		07	05	251 54		09	05	For	6	2	222 35		650	
600	125	-13	-20	309 19	127	-13	-31	293 09	128	-07	-20	266 17	128	-05	-26	232 24	129	-04	-14	245 40	130	-03	-10	261 46	131	01	-03	281 50	130	02	-01	Winch	127	-2	-6	228 43		600
550		-23	-33	311 14		-22	-40	286 19		-16	-24	273 19		-13	-39	245 28		-14	-30	255 44		-11	-19	263 46		-7	-11	255 49		-06	-09		-11	-15	222 43		550	
500	168	-34	-43	316 09	169	-32	-50	289 30	171	-27	-35	265 24	171	-23	-46	243 37	172	-24	-36	251 48	174	-22	-30	258 53	175	-16	-20	255 52	174	-16	-22	See	171	-20	-25	212 57		500
450		-44		112 05		-42		276 38		-34	-42	261 38		-33	-42	253 55		-33	-42	253 55		-35	-42	261 53		-27	-33	255 53		-26	-34	page	-30	-36	198 59		450	
400	217	-53		129 10	219	-55		273 39	222	-46		259 42	222	-44		247 60	223	-44		254 73	225	-45		263 66	227	-40		259 60	226	-40	47		-52		201 66		400	
350		-63		138 09		-62		271 43		-61		256 51		-56		244 83		-57		251 85		-57		271 71		-53		260 67		-55		5		-52		261 66		350
300	278	-70		265 09	280	-72		270 34	284	-73		255 59	284	-69		243 74	284	-73		268 57	286	-70		280 59	289	-67		269 69	288	-69			-54		225 63		300	
250		-69		279 22		-71		269 31		-66		266 46		-64		258 47		-62		258 78		-79		288 72		-77		278 77		-85			-66				250	
200	363	-64		279 31	364	-68		264 34	368	-65		276 41	369	-56		260 51	368	-65		261 51	370	-60		270 57	373	-64		271 75	371	-69			-53			200		
170		-62		274 37		-60		260 35		-63		277 47		-56		264 52		-63		267 52		-54		278 58		-57		271 52		-61			-56				170	
150		-64		274 45		-62		269 37		-59		278 47		-55		262 43		-59		279 57		-55		279 50		-57		266 56		-57			-54				150	
130		-64		272 51		-63		265 40		-60		272 50		-54		276 42		-59		276 42		-54		264 57		-56		265 54		-56			-56				130	
110		-64		271 54		-63		268 46		-61		278 52		-53		272 52		-57		264 50		-57		264 50		-55		265 58		-55			-52				110	
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90		-66		270 58		-63		269 43		-61		268 57		-54		262 51		-58		267 58		-58		267 58		-57		263 60		-58			-56				90	
80		-69																																				

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

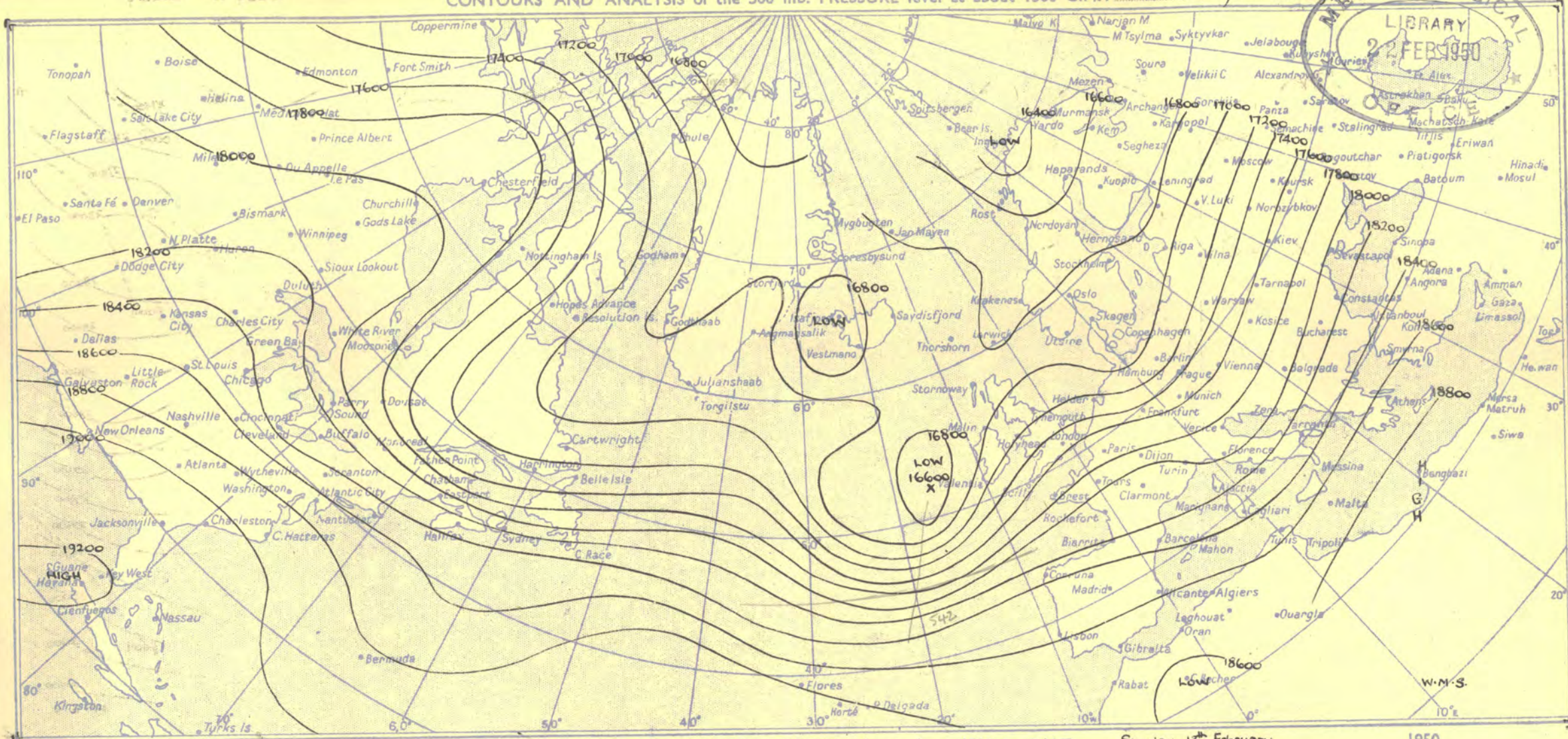


NOTES ON THE AEROLOGICAL SITUATION.

A warm ridge crossed the British Isles, causing some warming to take place in Germany and neighbourhood, and leaving cold, unstable air in the region of the British Isles and the Eastern Atlantic. Another warm ridge spread into the Atlantic, associated with a depression which moved northeastwards to east of Newfoundland.

RATES of SUBSCRIPTION: Single copy 2d. or post free 3d. One calendar month 7/- One quarter 18/- One year 70/-
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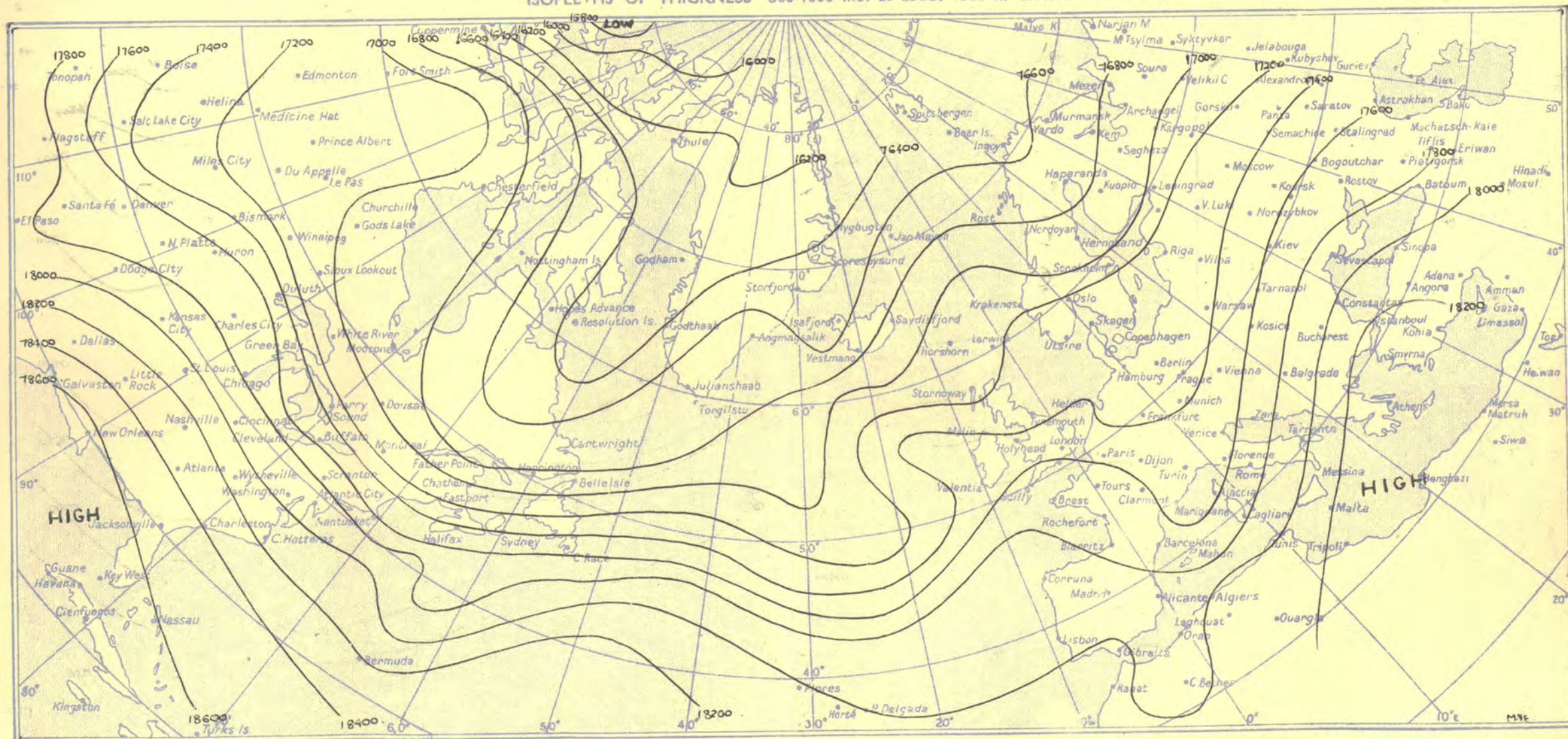
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



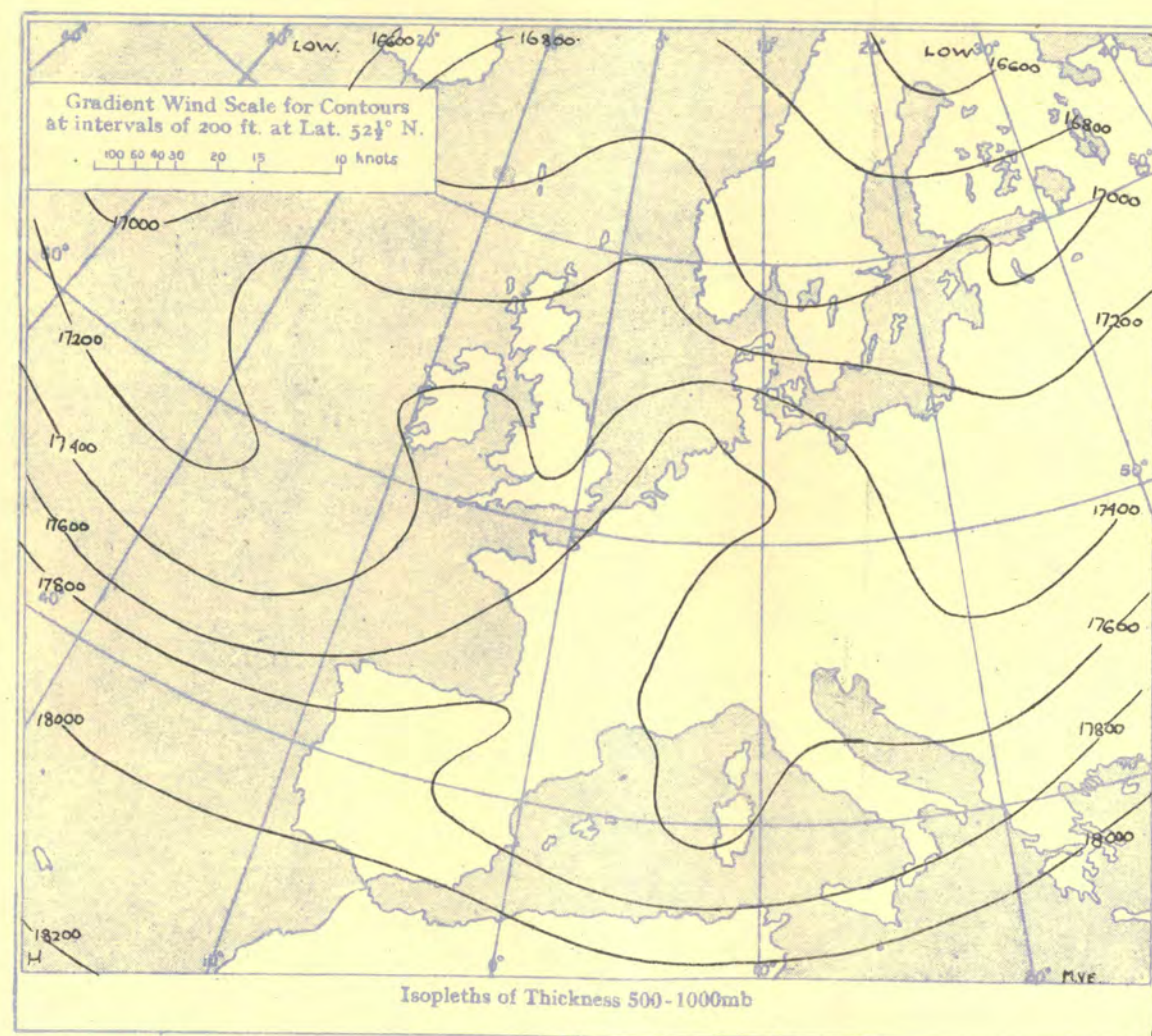
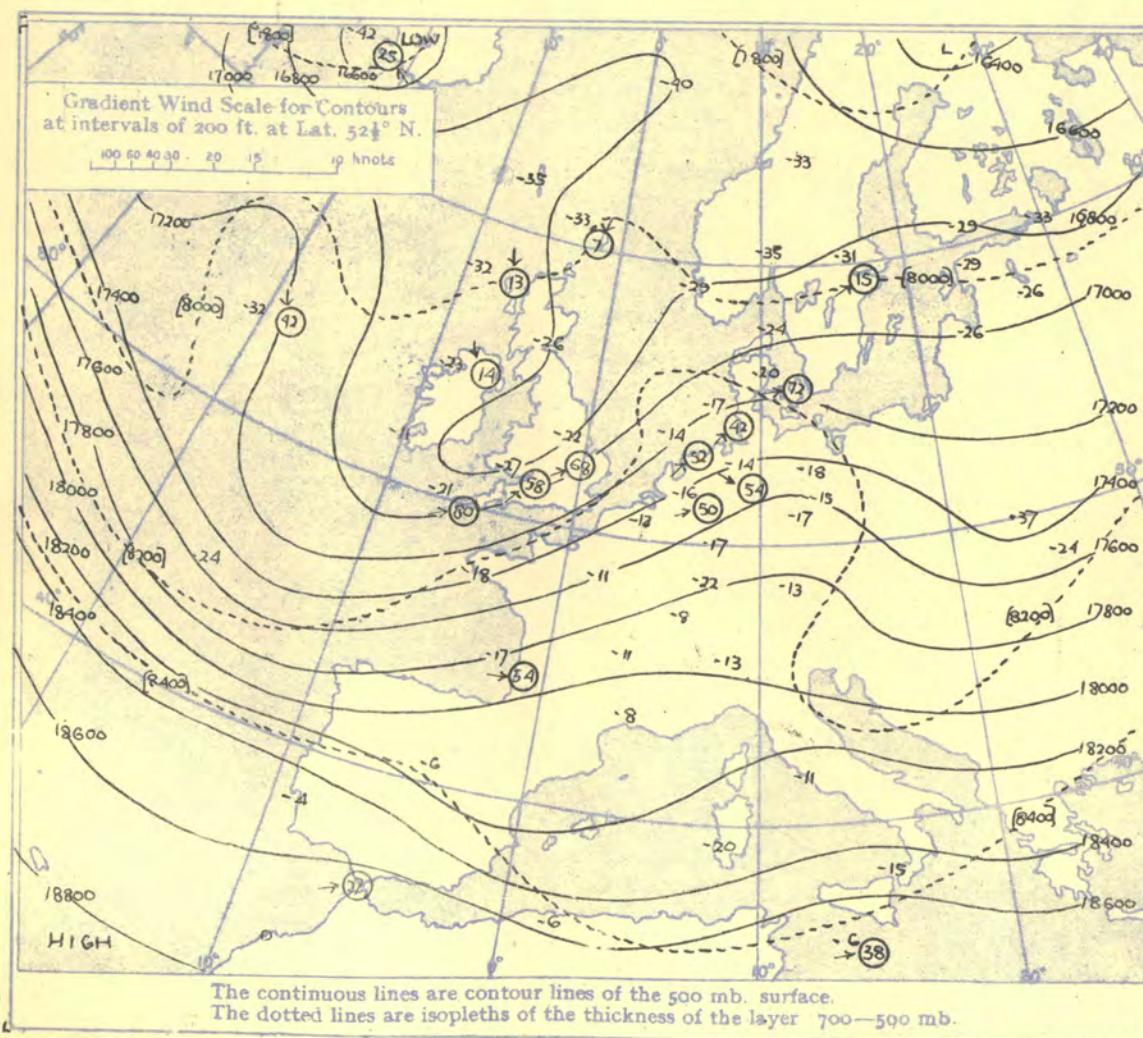
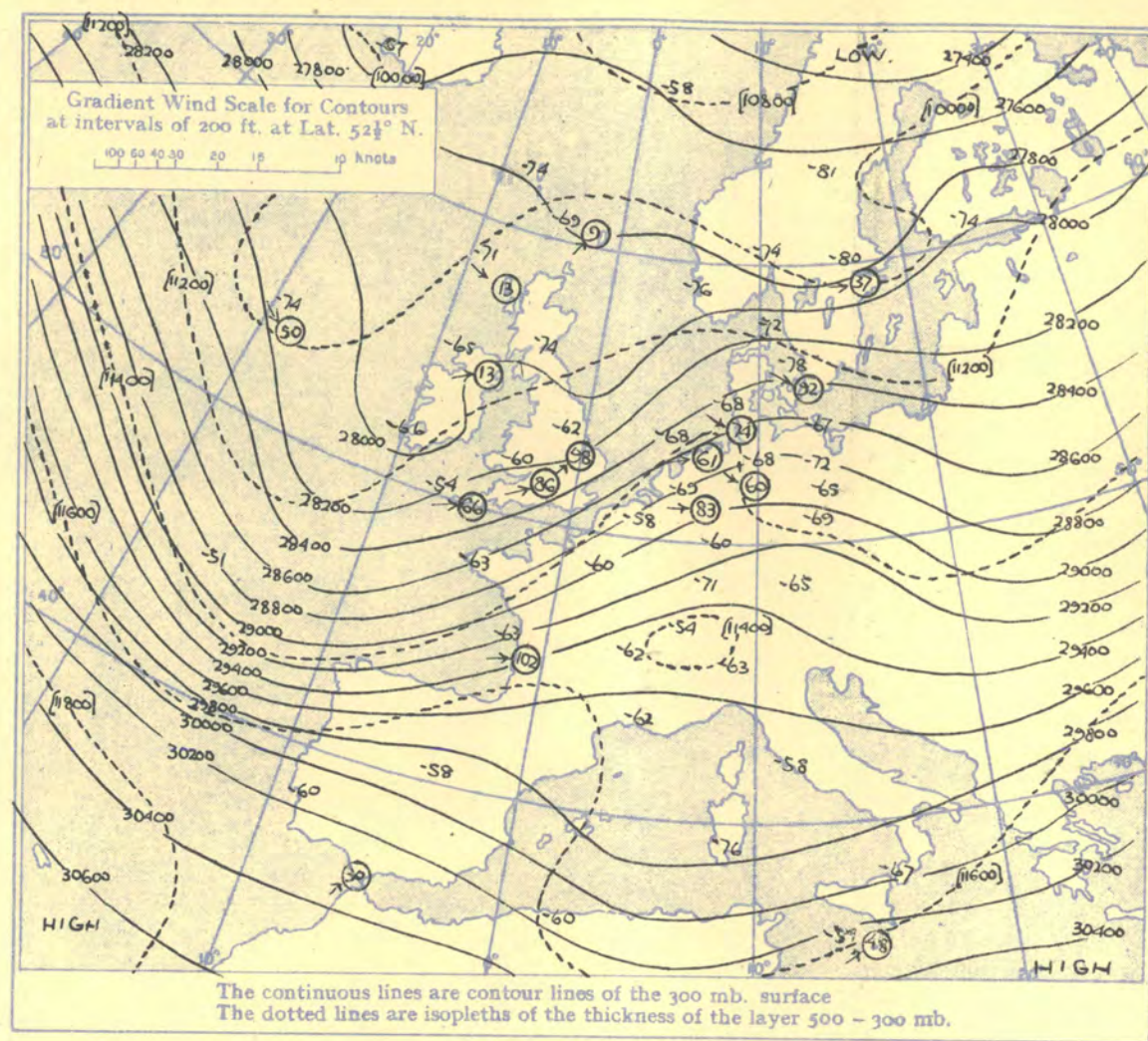
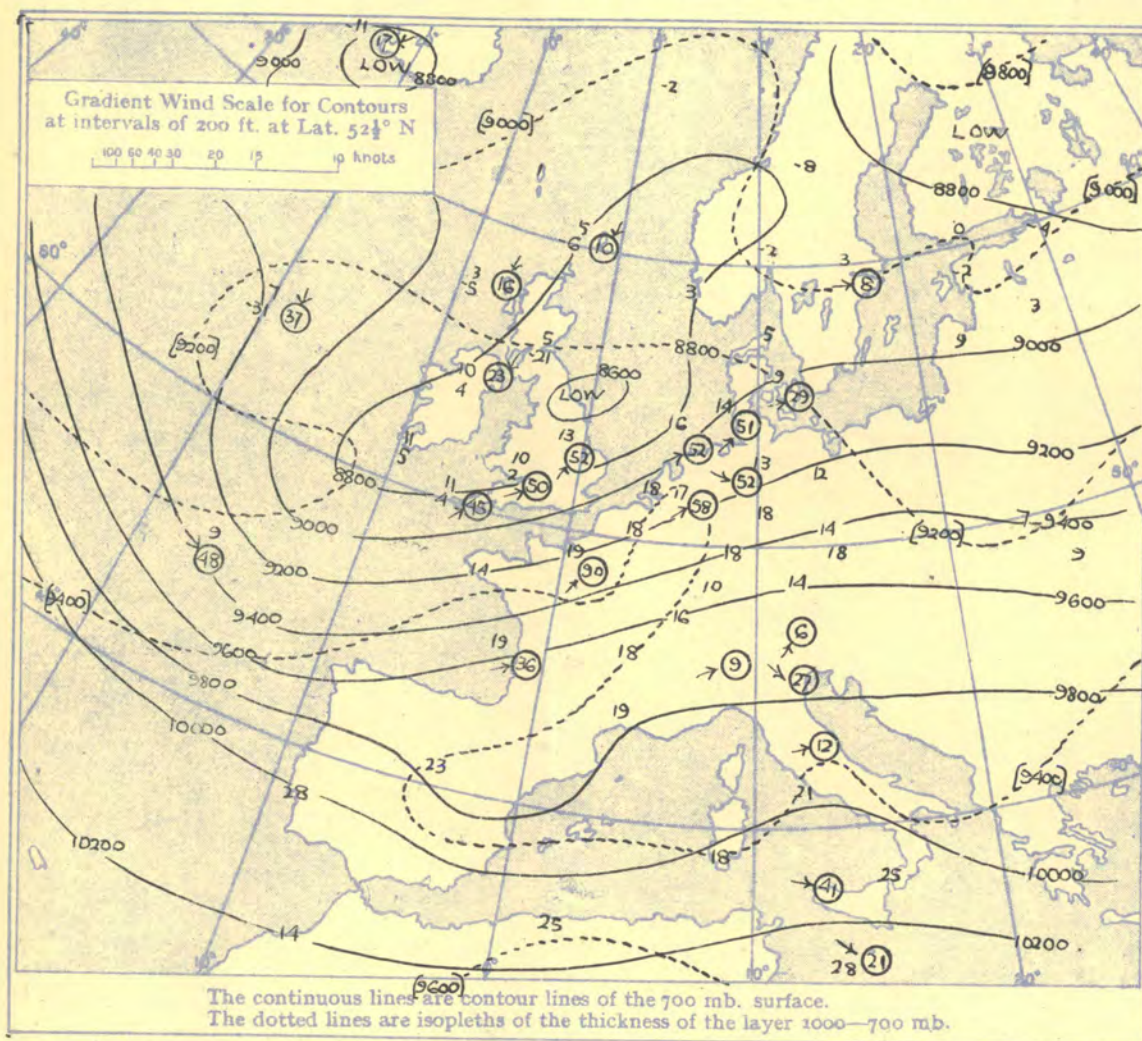
ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T.

Sunday 12th February

1950.



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 0300 G.M.T.



Monday 13th February, 1950

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION					
Pressure mb	Time M.S.L.	0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		Time M.S.L.									
		Surf	Freezing	985.3	975.3	mb	mb	988.6	986.5	mb	mb	983.8	982.9	mb	mb	973.4	981.9	mb	mb	983.2	977.8	mb	mb	984.8	968.9	mb	mb	984.3	974.0	mb	mb	979.5	978		mb	mb							
																																					931	936	932	915	868	881	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	Pressure mb										
Surf	02.7	33	32	360 10	00.5	33	29	020 05	00.2	35	30		02.3	38	34	040 14		01.2	43	39	190 18	04.4	39	36	225 12	02.9	44	37	200 20	00.3	43	38	320 13	Surf									
1000	-3.8				-3.1				-4.4				4.8					-4.8				-4.1				-4.2				-5.6				1000									
950		34	33	007 15		34	27	018 15		33	29			35	31	042 27			40	35	225 38		41	38	239 32		41	32	239 45		40	36	321 09	950									
900	24.0	28	26	032 11	24.7	21	21	023 18	23.4	28	24		23.1	30	26	049 28		23.4	35	29	136 42	24.0	35	32	245 42	24.0	36	29	241 46	22.6	34	34	325 08	900									
850		22	19	047 10		21	16	028 19		22	19			27	24	054 28			30	24	244 46		28	24	248 46		30	25	247 48		29	29		850									
800	54.2	17	15	035 13	55.0	14	10	028 18	53.6	16	10		53.6	21	19	043 25		54.1	24	20	242 48	54.6	22	16	243 47	54.8	24	17	248 49	53.3	23	22		800									
750		12	05	029 12		08	03	028 18		11	05			16	12	040 24			19	14	239 49		15	08	241 48		18	08	249 50		17	13		750									
700	87.7	05	06	027 10	88.3	03	05	017 16	87.1	05	21		87.3	10	04	040 23		88.2	13	01	238 52	88.4	10	02	240 50	88.8	11	04	248 45	87.2	11	05		700									
650		04	11	027 10		06	18	059 13		02	17			03	05	040 20			06	11	238 56		02	07	241 50		03	05	246 42		03	06		650									
600	125	13	20	027 10	126	14	34	356 13	125	09	21		125	06	15	007 17		126	03	17	235 58	126	07	16	245 54	127	04	17	245 45	125	05	16		600									
550		22	29	027 11		23	43	352 12		17	24			13	33	346 18			14	27	233 65		17	25	241 54		11	29	246 49		15	26		550									
500	168	33	39	038 07	168	32	53	353 13	168	26	40			169	23	41	320 14		170	22	37	232 68	169	27	35	236 58	170	21	38	247 50	168	26	38		500								
450		40	46	065 08		42		328 10		35	48			34	45	294 11			33	45	230 80		37	46	233 66		32	48	243 55		39	49		450									
400	218	52		074 17	218	52		279 14	218	47			219	46		257 12		221	42		225 111	220	44		229 89	221	45		240 51	218	52			400									
350		65		103 13		62		275 19		61				61		236 07			52		228 110		52		231 103		55		238 56		65			350									
300	278	69		234 09	279	71		292 13	279	74			281	65		246 13		283	62		232 98	282	60		233 86	284	54		244 66	279	66			300									
250		70		256 20		69		278 14		62				59		264 22			65		229 66		61		238 64		57		242 57		58			250									
200	363	66		263 32	364	63		264 30	365	62			367	55		268 34		369	62		242 55	369	58		246 51	371	56		249 57	366	58			200									
170		66		264 37		66		259 33		62				57		268 37			63		252 53		61		251 58		56		263 45		59			170									
150		69		262 44		67		262 40						58		266 36			60		259 49		58		257 54		55		255 46		61			150									
130		70		264 51		66		265 39						58		268 38			62		249 48		57		258 44		57		262 44					130									
110		68		267 57		66		266 44						59		268 43			59		262 50		59		254 42		58		265 40					110									
100	508	69		267 62	510	66		265 49					516	59		268 48		516	59		261 46	517	60		249 39	520	59		262 37					100									
90		70				68		268 54						62					60		257 41		60				60		264 39					90									
80														63					60								60							80									
70														63					60								60							70									
60														63					60								60							60									
Inversion		976mb. 33°-		958 - 35°						Isothermal		804-785mb. 16°						Inversion		986mb. 35°-		958 - 38°						Isothermal		800-767mb. 19°													
Tropopause		I 277mb. -74°		29,600'						I 295mb. -72°		28,800'						I 290mb. -75°		28,600'						I 254mb. -66°		31,900'		I 285mb. -62°		29,400'		I 345mb. -56°		25,200'		I 336mb. -69°		28,400'		Tropopause	
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION					
Pressure mb	Time M.S.L.	0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		Time M.S.L.									
		Surf	Freezing	984.5	974.5	mb	mb	988.1	988.1	mb	mb	980.6	989.4	mb	mb	982.7	980	981.7	977.2	mb	mb	984.8	968.9	mb	mb	984.3	973.7	mb	mb	979.5	978	mb	mb										
																																			940	919	926	913	880	880	882	882	
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	32	011 16	00.5	34	29	315 08					02.3	31	27	010 10	00.6	36	34	010 15	01.2	40	36	210 10	04.4	40	37	260 05	02.9	40	38	270 03	Surf										
1000	-4.1				-2.6								-2.9				-4.8				-4.9				-4.1				-4.2				1000										
950		33	32	009 24		35	26	359 27						31	26	002 18		35	32	014 24		39	35	221 27		40	37	230 21		38	34	160 20	950										
900	23.6	27	26	017 21	25.3	29	16	359 28					24.9	29	21	002 22	23.1	30	27	018 23	23.2	34	30	240 37	24.0	34	31	243 24	23.8	34	31	303 20	900										
850		23	19	019 18		22	12	357 27						21	11	002 21		23	21	033 27		28	25	253 42		29	26	250 26		29	26	303 23	850										
800	53.8	17	13	019 19	55.5	15	07	351 22					55.1	15	02	002 20	53.5	19	16	036 23	53.9	23	20	255 36	54.7	23	21	255 26	54.6	23	22	296 22	800										
750		10	06	018 19		08	05	347 25						06	12	002 20		13	10	024 19		17	13	255 33		19	12	255 28		17	12	293 19	750										
700	87.2	02	04	018 18	88.8	01	13	346 27					88.3	01	22	358 21	87.2	08	03	003 21	87.8	10	05	249 36	88.7	13	03	292 31	88.5	11	09	288 19	700										
650		05	13	018 15		05	26	347 29						04	35	350 24		04	05	053 21		03	03	245 40		04	04	242 32		04	02	279 20	650										
600	125	14	21	030 16	126	14	21	349 29					125	11	43	347 24	125	05	13	321 18	126	05	12	246 44	127	05	11	237 33	127	04	06	278 19	600										
550		23	28	038 15		24	45	348 27						22	48	345 20		15	22	306 20		14	21	249 38		14	18	237 38		14	17	274 21	550										
500	167	32	39	043 12	169	34	54	348 26					168	34	53	342 19	169	24	31	293 17	169	26	35	254 37	170	24	30	241 37	170	25	30	267 26	500										
450		41		045 11		45		350 24						45		332 18		35	43	291 16		38	49	256 40		35	40																

Monday, 10th February 1950

Monday 22 Feb 1950 1950

METEOROLOGICAL

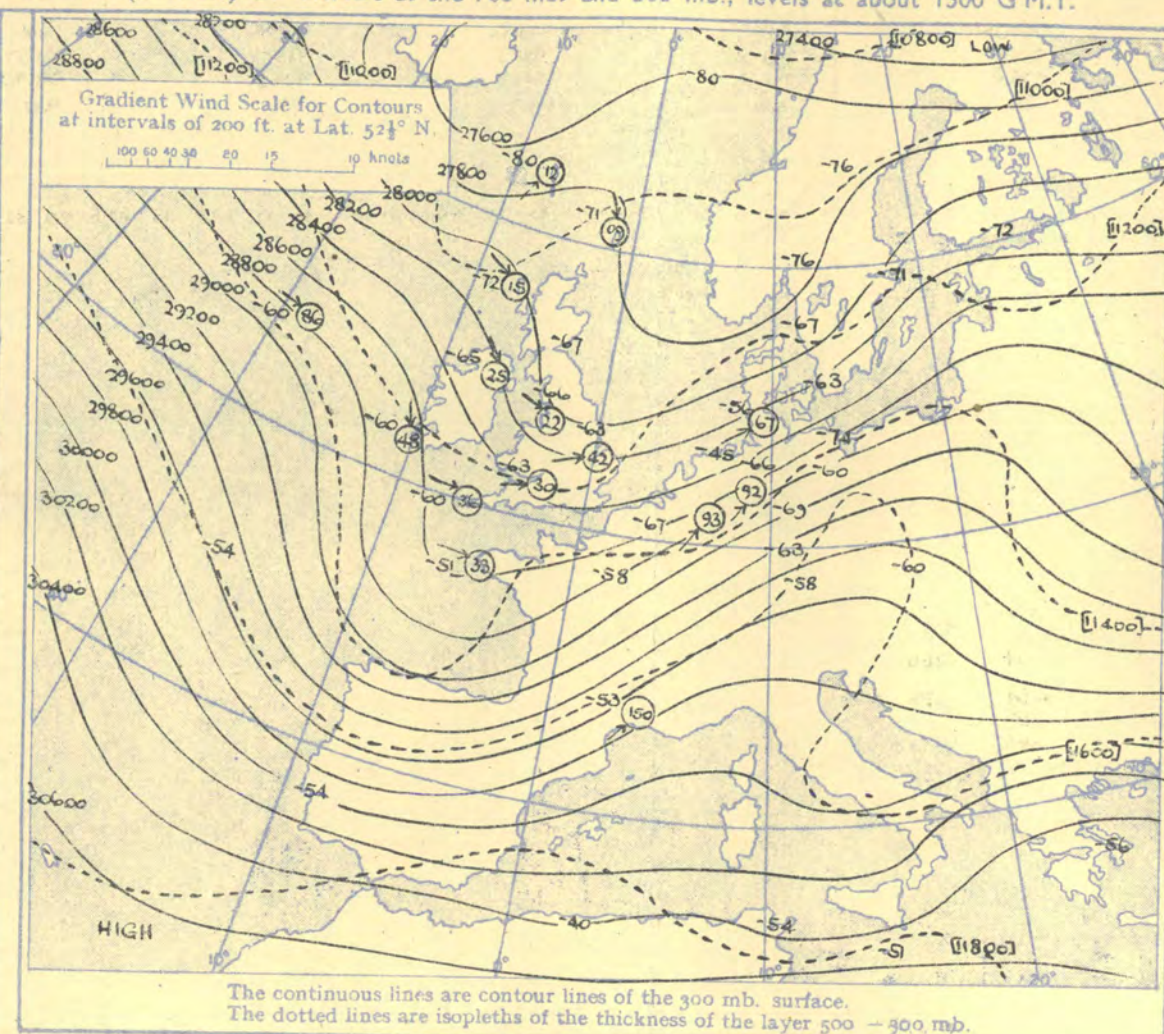
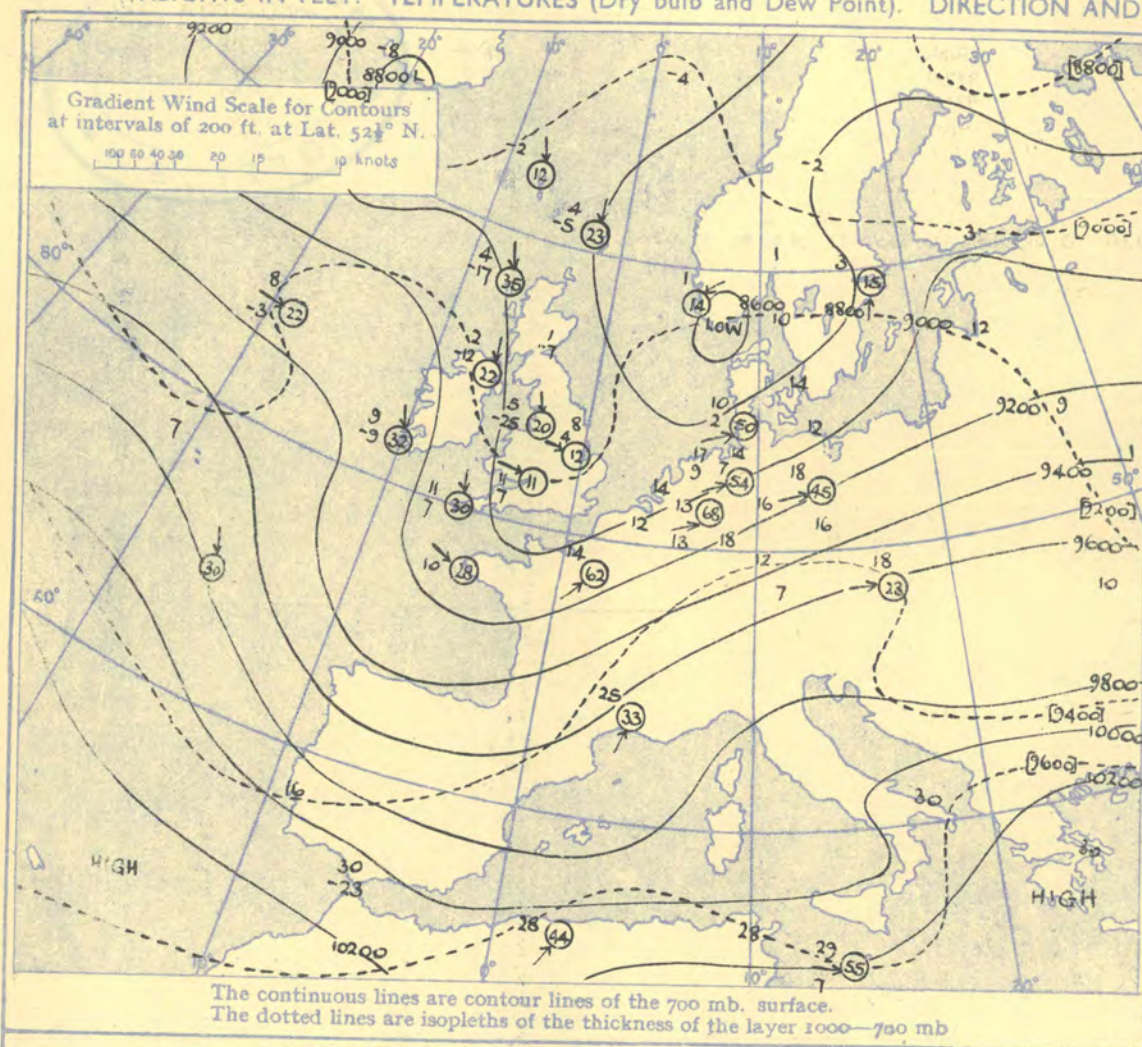
VALENTIA

Is. 1901

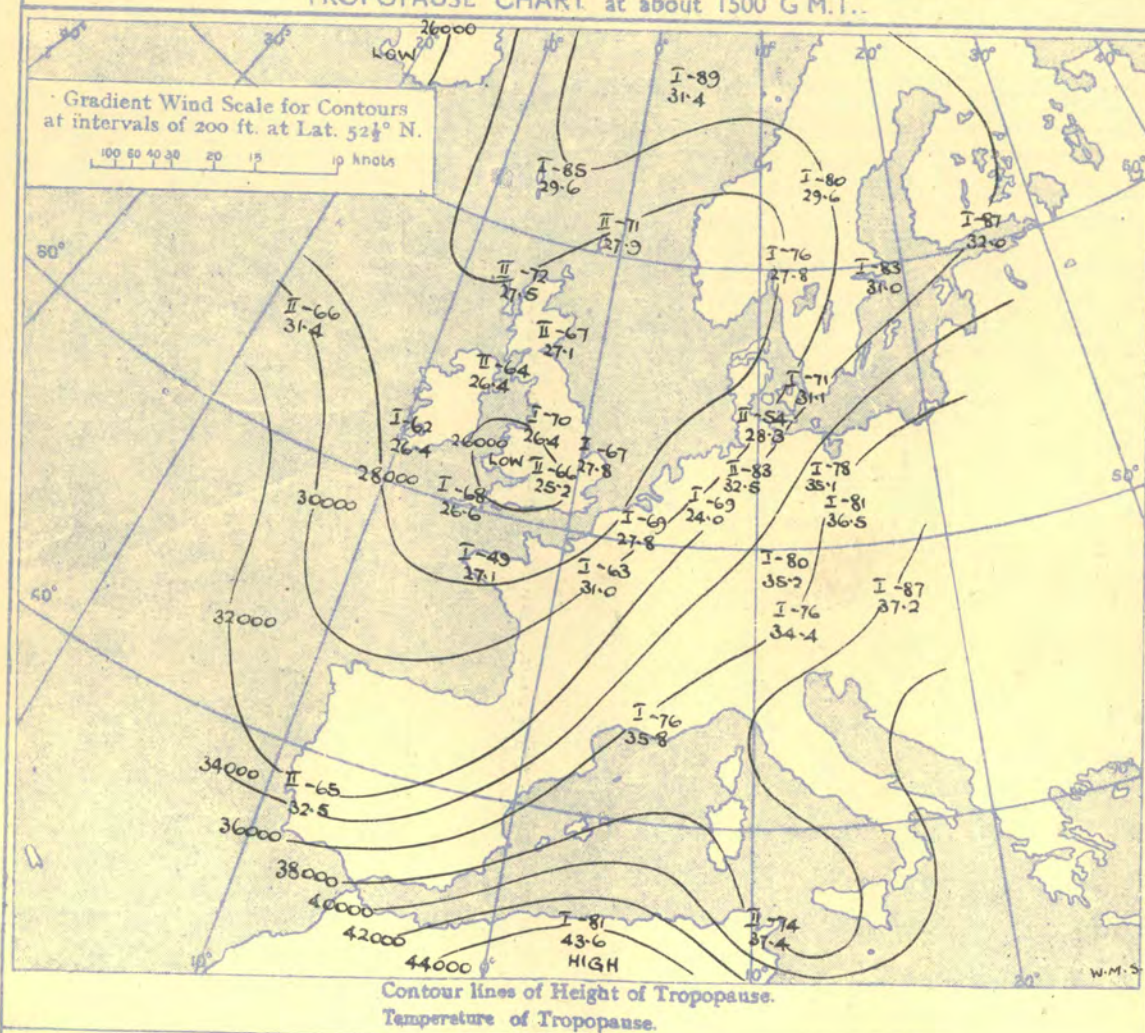
22 FEB 1950

OFFICE

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

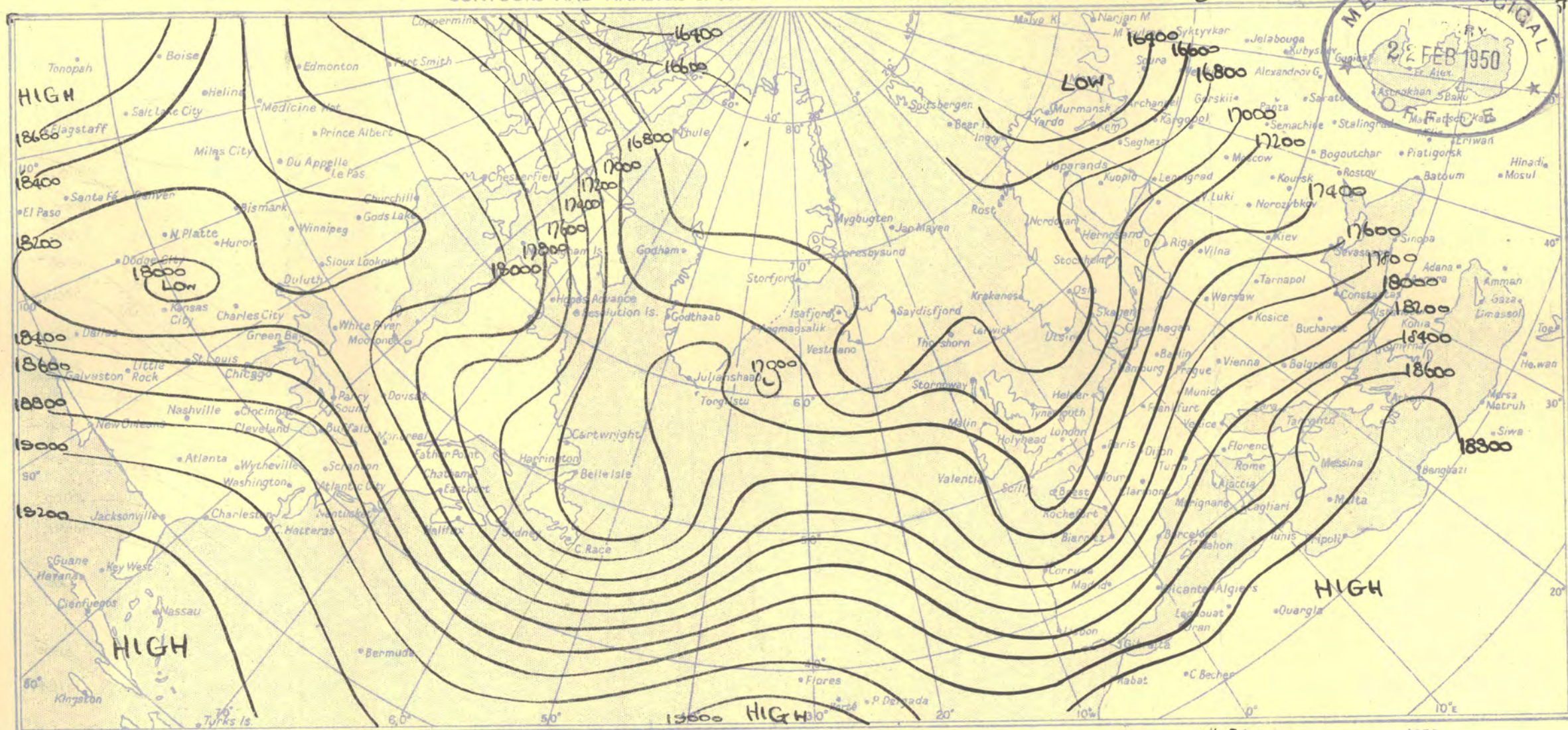


NOTES ON THE AEROLOGICAL SITUATION.

A warm ridge in the Atlantic moved to the Eastern Atlantic, whilst cold air spread into the Western Atlantic. The cold air west of the continent progressed eastwards and formed a well marked cold trough from the Western Mediterranean to the North Sea.

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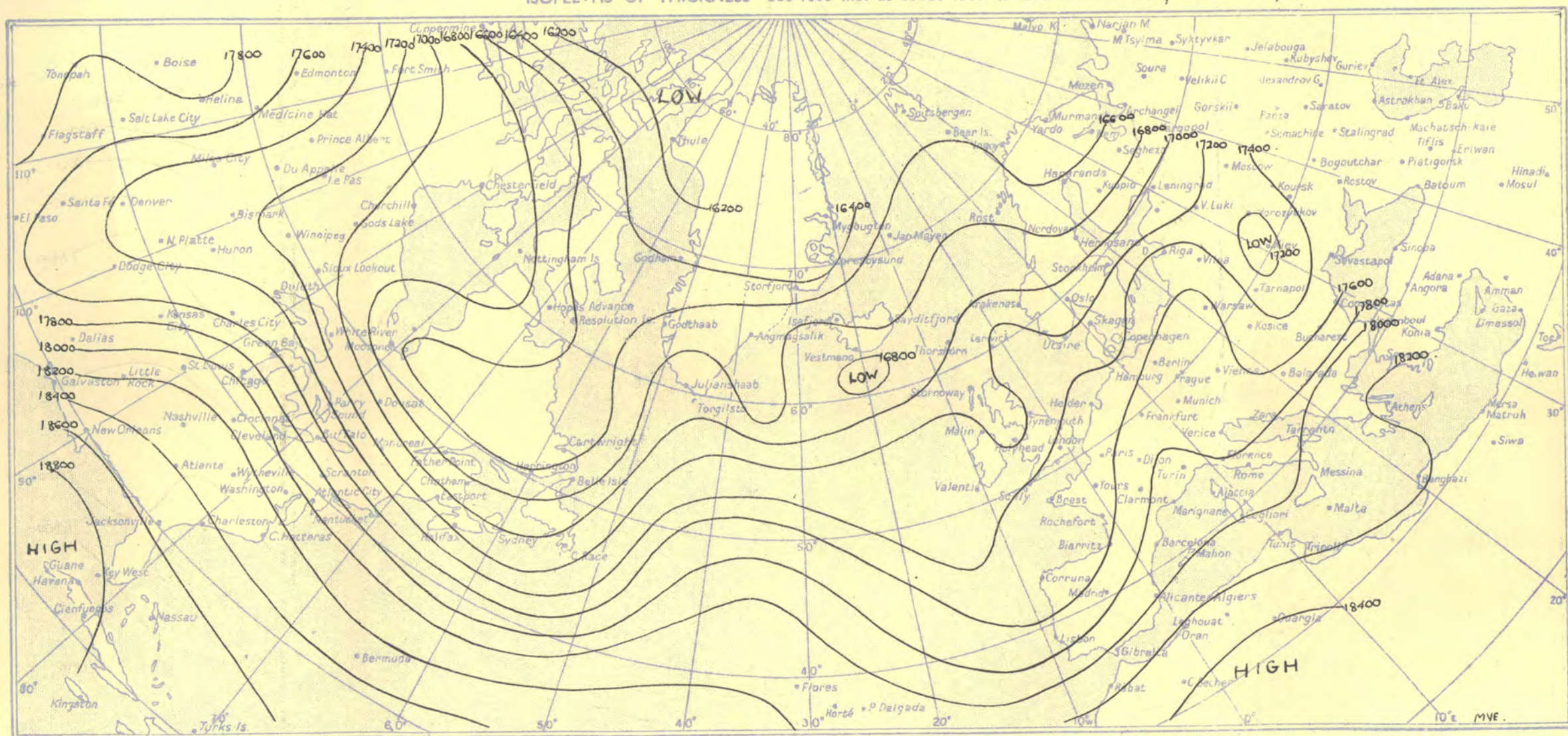
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



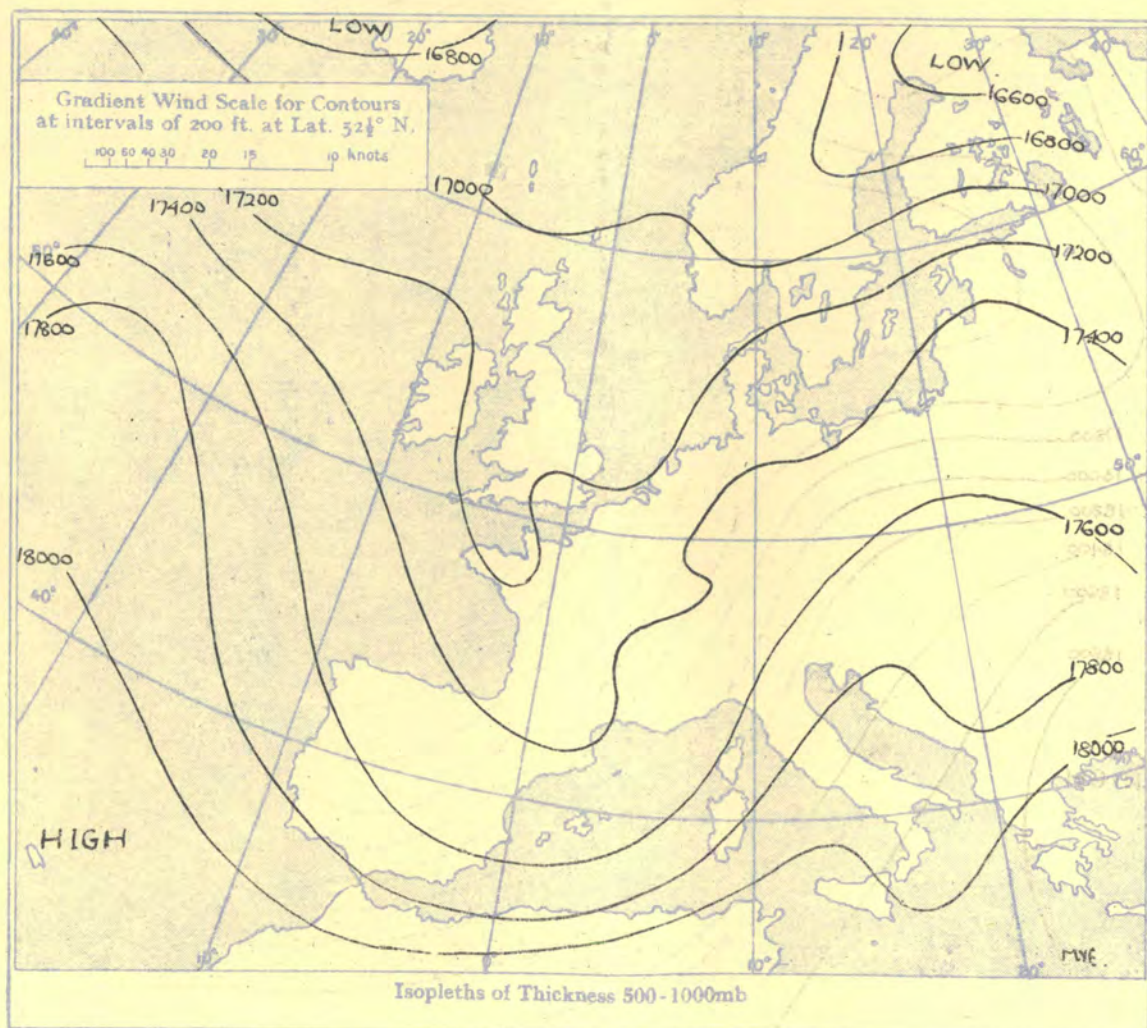
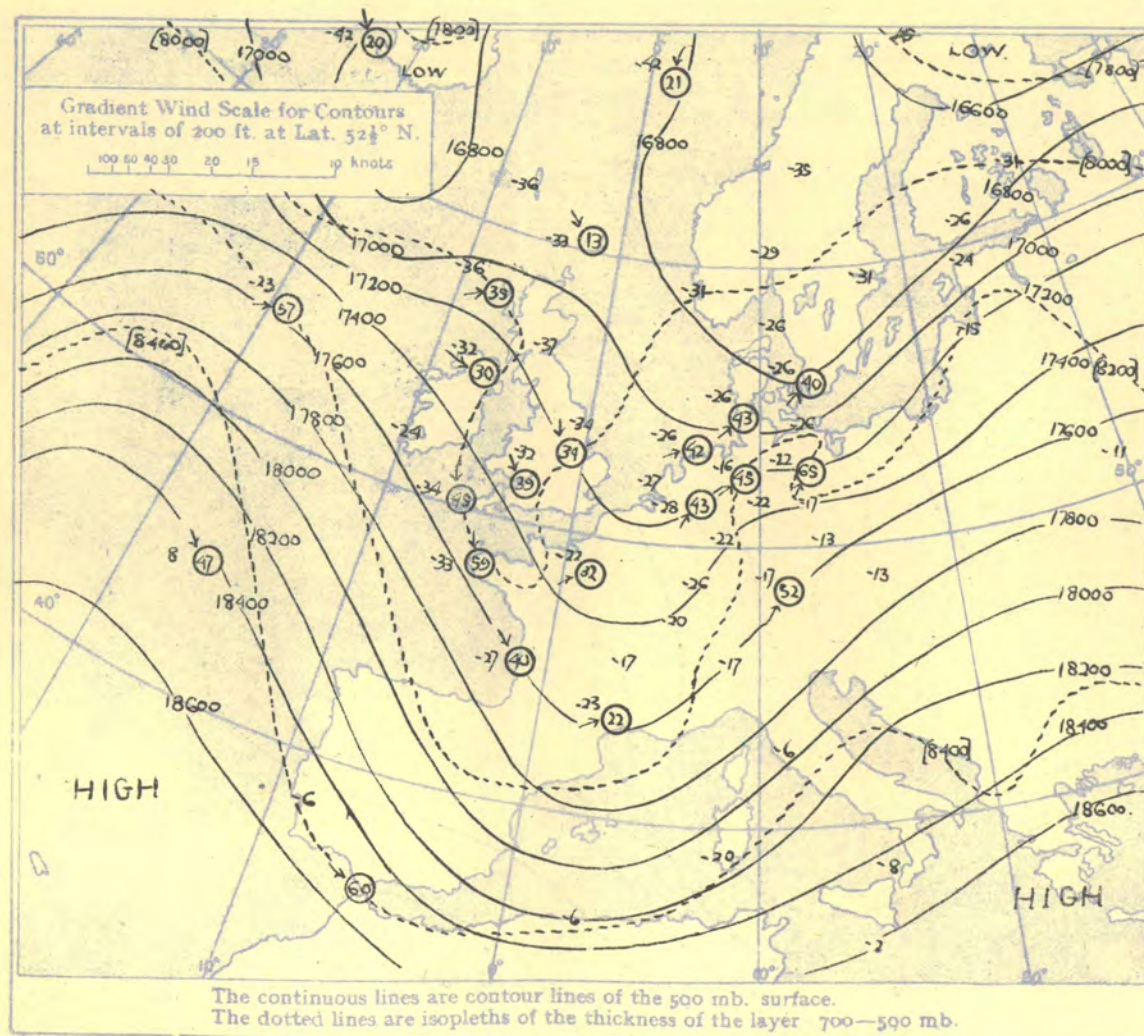
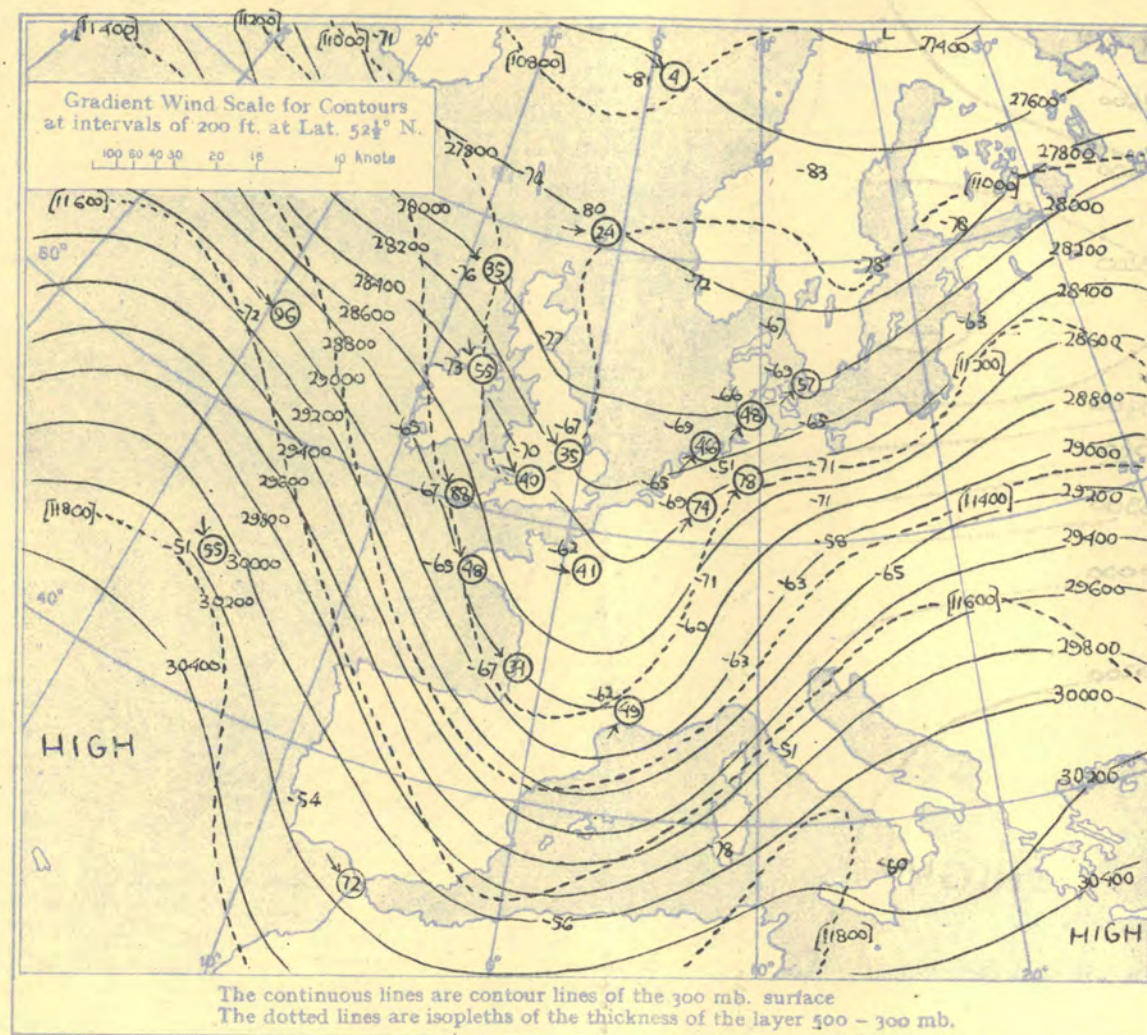
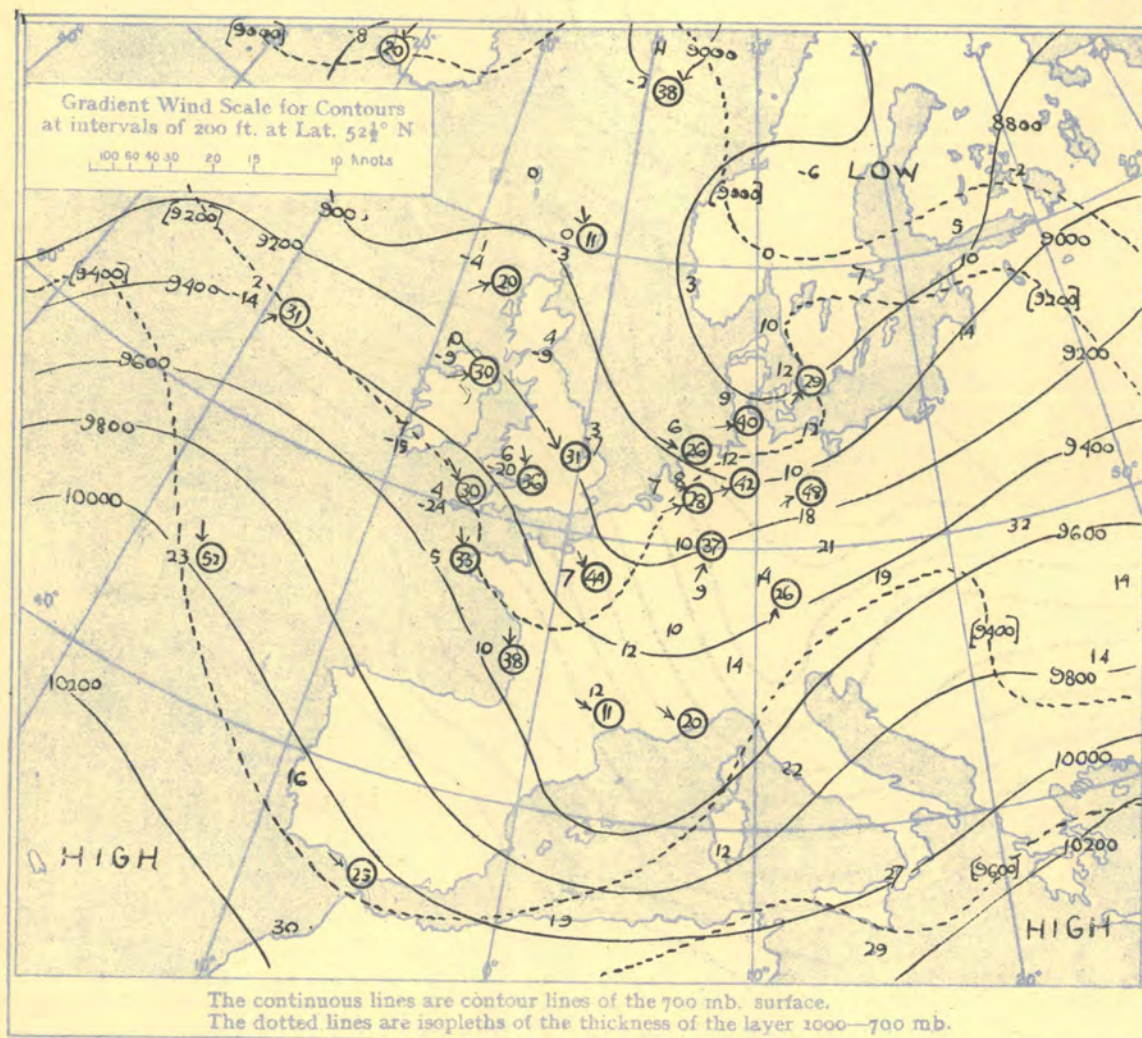
ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T.

Monday 13th February

1950.



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 0300 G.M.T.



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 Freezing	48°2N 20SW				49°5N 14°SW				43°2N 17°W				39°5N 12°W				51°3N 00°E				Time M.S.L. Surf Freezing	Place	Antona	Leuchars	Leuchars	Downham Market	Liverpool	Larkhill	Lerwick					Place																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	1256h 13/2				14h 13/2				14h 13/2				15h 13/2				15h 13/2					Type	PILAR	PILAR	PILAR	PILAR	PILAR	PILAR					Type																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	1017 mb				1009 mb				1022 mb				1023 mb				986.5 mb																	Feet	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.

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

Ship	WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER								Ship										
Lat/Long	53°.9'N. 18°.7'W.				53°.9'N. 20°.0'W.				53°.8'N. 18°.6'W.				53°.8'N. 19°.9'W.				53°.8'N. 18°.7'W.				53°.8'N. 18°.7'W.				53°.9'N. 19°.9'W.								Lat/Long						
Pressure	Time	13 th Feb. 15h. G.M.T.				13 th Feb. 15h. G.M.T.				13 th Feb. 21h. G.M.T.				13 th Feb. 21h. G.M.T.				14 th Feb. 03h. G.M.T.				14 th Feb. 03h. G.M.T.				14 th Feb. 09h. G.M.T.				14 th Feb. 09h. G.M.T.				G.M.T.				Time	
	M.S.L.	1004 mb				999 mb				1007 mb				996 mb				1006 mb				991 mb				999 mb				993 mb				mb				M.S.L.	mb
	Surf	1004 mb				999 mb				1007 mb				996 mb				1006 mb				991 mb				999 mb				993 mb				mb				Surf	mb
	Freezing	900 mb				980 mb				920 mb				970 mb				955 mb				950 mb				920 mb				950 mb				mb				Freezing	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		44	37	260 16		34	30	285 17		42	32	300 13		35	29	260 26		41	34	250 17		38	34	290 30		41	38	140 18		37	28	340 15	Surf						
1000	10	43	26	255 30	- 4				10	43	32		11	43	32		10	40	33		38	34		35	32	134 24	-18	37	28	340 15	1000								
950		37	33	257 28		28	21	264 30		36	27	311 17		29	25		29	30	22		32	28	293 49	35	32	134 24	25	32	28	335 19	950								
900	29.0	32	28	268 28	27.0	22	13	272 22	29.9	29	21	311 19	26.3	23	21		25	10	252 23	25.1	25	21	295 41	30	27	151 23	25.8	25	25	335 24	900								
850		26	21	274 28		14	03	277 23		22	15	309 21		15	14		17	12	295 36		17	12	295 36	26	23	166 24		18	17	334 29	850								
800	60.0	21	14	280 22	56.7	07	04	273 23	60.2	16	09	309 20	56.1	07	03		14	00	255 25	55.0	11	08	295 37	58.4	24	22	176 24	55.8	12	10	332 23	800							
750		14	08	279 26		01	12	280 27		10	02	309 21		00	05		08	21	256 28		03	03	298 35	21	19	198 31		08	02	331 40	750								
700	93.3	08	03	269 22	89.4	08	22	280 28	93.6	04	05	301 30	88.8	08	11		02	14	257 31	87.9	04	12	307 38	92.6	18	16	220 33	88.9	01	06	324 33	700							
650		00	21	257 24		18	38	273 31		00	14	286 44		17	20		03	14	258 37		12	24	312 26		13	10	222 38		07	21	313 30	650							
600	131	08	28	262 46	126	28	48	266 33	131	04	17	270 57	125	25	33		06	16	266 46	125	20	27	300 27	131	09	05	234 48	126	14	30	315 37	600							
550		17	37	266 26		28	52	264 45		10	36	270 53		34	42		14	23	272 55		30	33	287 43		02	02	245 64		17	37	310 40	550							
500	174	27	48	268 32	168	33	60	263 52	125	17	41	284 61	167	39	50		23	34	273 57	167	34	43	286 49	176	04	11	256 67	169	20	42	302 53	500							
450		36	59	278 42		39	59	265 48		25	44	288 69		44			32	44	277 69		40	50	293 58		16	22	260 77		25	45	281 74	450							
400	225	45		282 45	218	48		268 49	227	33	49	293 75	217	52			42		283 69	217	46		297 67	229	28	35	264 82	221	35	51	279 88	400							
350		52		291 60	(355 mb)	57			(380 mb)	34	50			61			56		295 89		53			297 67	229	42		266 86		47		275 88	350						
300	287	60		296 86									277	69			72		295 96	279	62			293	58		267 90	284	63		283 87	300							
250		66		308 102										70			87		290 99		69						266 96		76		286 95	250							
200	373	63		308 86									362	70			101		292 99	363	76			376	93			367	83		278 63	200							
170		62		300 60										74			94		298 60		77				82				77		275 74	170							
150		61		291 54										86					297 55		75			(153 mb)	76				77		280 71	150							
130		58		291 52										81					292 47		78								78		285 62	130							
110		55		291 50										81					292 45		78								79		279 58	110							
100	521	58		291 47										83			(107 mb)				78		505					508	79			100							
90		64		290 35																	78								76			90							
80																					78								77			80							
70																					78								78			70							
60																					78								79			60							
																					(065 mb)								83										

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

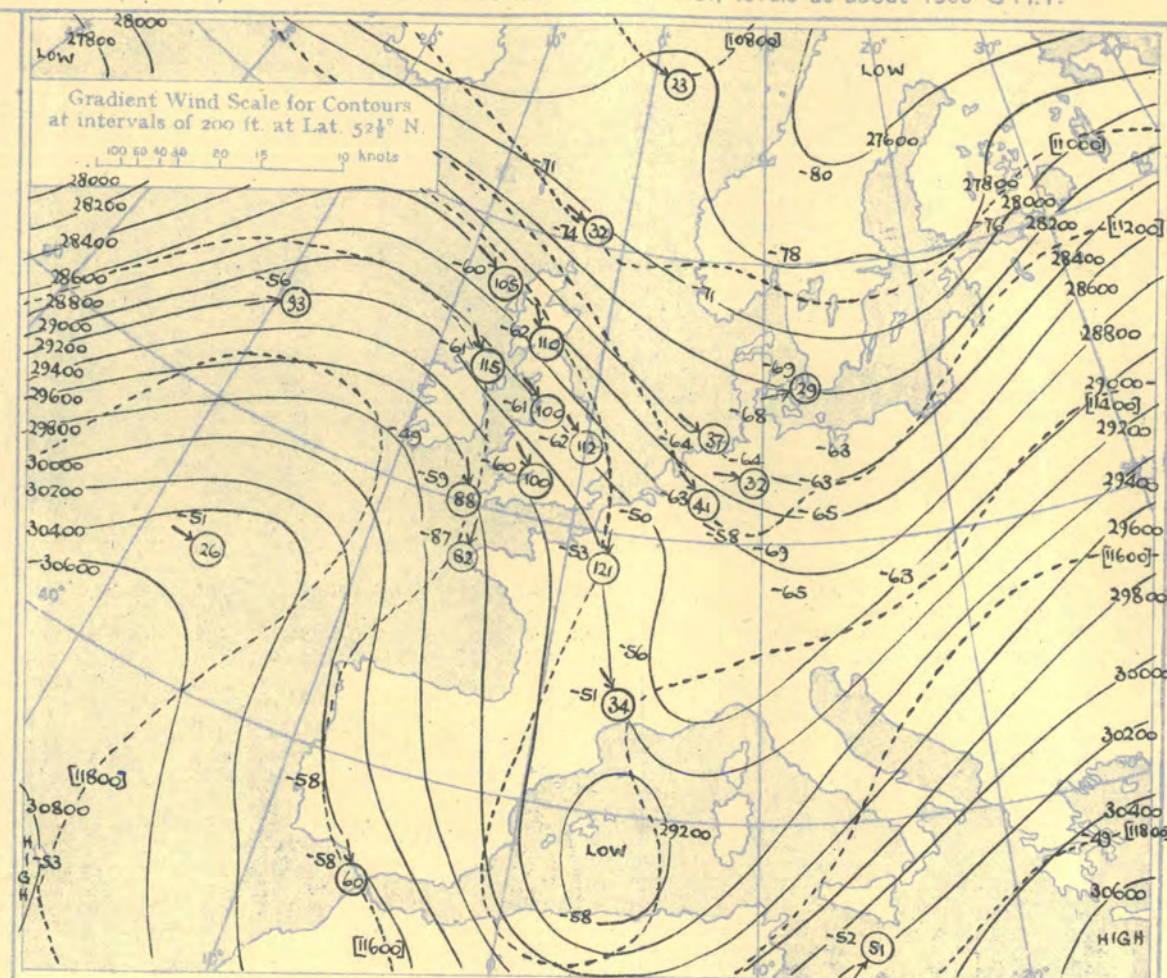
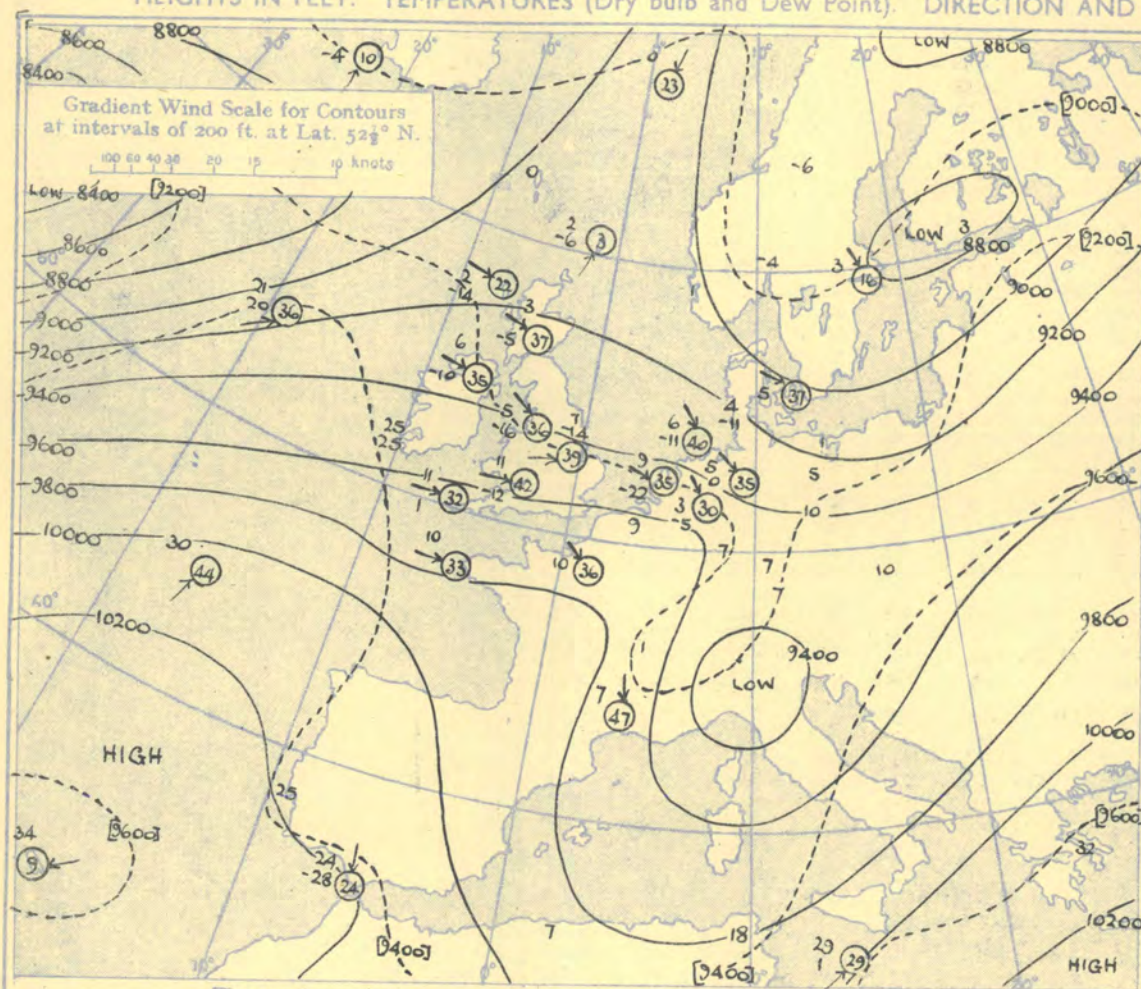
Tuesday 14th February 1950

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION	
Pressure mb	Time M.S.L. Surf Freezing	0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		Time M.S.L. Surf Freezing					
		993.0		mb		996.8		mb		998.6		mb		1003.3		mb		1000.8		mb		1006.3		mb		1010.5		mb		1008.1		mb							
		982.9		mb		994.9		mb		997.7		mb		994.6		mb		995.9		mb		999.7		mb		999.7		mb		1007		mb							
924		mb		930		mb		937		mb		919		mb		944		mb		930		mb		920		mb		915		mb		915							
Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. ° knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. ° knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. ° knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. ° knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. Vel. ° knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir. 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	30		0.50	35	33	225	05	00.2	35	32		02.3	34	31	260	10		01.2	34	29	290	09	04.4	33	30		02.9	42	34	337	08	00.3	41	40	260	10	Surf
1000	01.9	35	26		0.90	35	25	246	10	00.7	33	29		10.9	37	31	262	22		00.1	33	25	309	32	1.5	34	27		02.8	37	30	312	21	2.2	41	40	263	11	1000
950	25.9	28	23		2.70	28	23	257	10	26.9	29	26		28.7	29	31	263	25		27.8	27	20	311	34	29.3	29	21	See	30.8	29	24	317	22	30.1	30	27	289	31	950
850	56.1	21	19		57.2	22	17	250	09	57.2	23	17		59.0	22	17	264	27		58.0	22	15	308	30	23	14			61.0	22	15	319	23	60.6	24	17	258	34	850
800		14	13			15	04	233	11		18	9			17	05	264	28			17	09	312	34	59.6	20	00	Page 5		18	02	320	28		19	5	280	36	800
750		07	06	See		08	03	229	16		12	01			11	09	264	27			10	00	319	35	12	13	for			12	17	321	29		13	05		750	
700	89.3	00	03	Page 5	90.5	01	04	240	20	90.7	04	09		92.5	04	09	270	30			03	07	318	31	93.2	06	20	Winds.	94.5	04	24	321	30	94.2	7	15		700	
650		08	10			6	11	244	25		05	17			3	13	274	30			5	16	316	28	03	29				04	31	317	32		1	23		650	
600	127	15	19		12.8	14	21	250	27	12.8	15	25		13.0	11	26	278	29			12.9	14	23	311	26	13.1	11	36		13.2	4	40	313	33	13.2	6	29		600
550		23	27	for		23	31	256	34		26	34			21	36	287	27				23	31	308	29	22	47			24	44	314	38		15	33		550	
500	16.9	33	39	Winds	17.1	36	45	258	35	17.0	37	43		17.3	32	44	288	30			17.1	34	43	307	34	17.4	32	50		17.4	34	50	314	42	17.54	24	41		500
450		43				47		259	40		48				44		286	36				43		307	35		42				42		315	50		52	48		450
400	21.8	54			21.9	57		279	27	21.9	60			22.2	56		298	34			22.1	52		293	32	22.3	53			22.4	51		319	60	22.63	41			400
350		66				67		283	33		69				65		301	41				63		290	27		61				69		323	75		51		350	
300	27.9	80			28.0	76		281	35	27.9	77			28.3	73		305	52			28.2	67		291	35	28.4	70			28.5	67		324	88	28.87	65		300	
250		78				71		275	41		73				68		311	64				61		282	33		66				71		326	75		78		250	
200	36.1	76			36.4	70		283	48	36.3	74			36.7	68		305	55			36.8	58		267	37	36.9	66			37.0	69		319	58	37.15	79		200	
170		74				70		283	50		65				65		296	48				57		268	37		61				65		321	48		71		170	
150		76				70		275	56		66				58		294	46				62		263	38		61				64		321	36		71		150	
130		76				68		273	57		69				71		291	47				61		259	44						63		321	30		72		130	
110		76				68		275	52		71				69		278	58				62		263	50						66		321	33		70		110	
90	50.3	76		(088 mb)	50.8	67								51.2	69		281	62			51.6	62		255	51					51.5	63							90	
80		76													69		283	61				59		254	55					67							80		
70																						59		249	56					68								70	
60																						59		244	48					66								60	
Inversion		983 mb. 35° - 963 mb. 37°		Inversion		995 mb. 35° - 908 mb. 38°		Inversion		998 mb. 35° - 983 mb. 36°		Inversion		995 mb. 34° - 960 mb. 38°		994 mb. 58° - 382 mb. 57°				isothermal.		930 mb - 980 mb. 34°				Inversion.		989.7 mb. 33° - 967 mb. 35°				isothermal.		1007 mb - 1000 mb. 41°		550 mb - 543 mb. -15°		Tropopause	
I 277 mb. -82° 29500'				I 304 mb. -77° 27600'				I 300 mb. -77° 27900'				II 297 mb. -74° 28400'								I 319 mb. -67° 26800'				I 300 mb. -70° 28400'				I 238 mb. -73° 33400'				I 231 mb. -84° 34100'				Tropopause			
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION	
Pressure mb	Time M.S.L. Surf Freezing	0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		Time M.S.L. Surf Freezing					
		995.1		mb		996.4		mb		1004.9		mb		1005.2		mb		1008.6		mb		1010.9		mb		1012.6		mb		1001.8		mb							
		985.1		mb		994.3		mb		996.0		mb		1003.1		mb		1002.6		mb		994.4		mb		990		mb		900		mb							
931		mb		935		mb		930		mb		912		mb		925		mb		911		mb		900		mb		900		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	Pressure mb			
Surf	02.7	33	30	270	04	0.50	38	32	270	08				02.3	34	32	280	06	00.6	35	32	230	50	01.2	34	30	240	09	04.4	34	31	270	7	02.9	42	36	247	10	Surf
1000	01.3	34	25	L + V	01.0	34	29	297	31					01.3	36	30	309	22	01.3	36	30	251	20	01.9	34	29	240	09	2.9	34	31	270	7	03.3	42	36	247	10	1000
950		34	25			34	29	297	31					37	26	251	20			37	26	251	20		35	28	298	31		34	30	276	20		39	34	249	32	950
900	26.3	27	20	"	26.8	27	22	287	31					29.1	28	23	312	26	29.3	30	21	257	29	29.7	29	20	301	29	30.7	31	17	288	25	31.4	32	28	259	35	900
850		20	15	"		21	19	288	33					21	13	315	25			23	16	253	33		23	11	312	27		27	05	293	26		24	20	264	36	850
800	56.5	13	08	"	57.0	17	12	291	31					59.3	14	01	313	23	59.7	17	06	254	38	60.0	19	01	310	28	61.2	21	02	293	27	61.9	19	12	267	33	800
750		07	02			10	06	293	31					09	10	309	24			09	10	309	24		13	16	309	26		14	09	285	26		14	04	268	35	750
700	89.7	01	05		90.4	03	23	287	29					92.6	02	12	303	31	93.1	03	02	256	36	93.6	05	22	309	27	94.9	05	17	284	23	95.6	08	02	272	42	700
650		07	13			05	18	282	18					04	10	302	40			04	10	302	40		03	29	308	26		03	23	285	24		01	12	287	36	650
600	127	16	22		12.8	13	18	280	13					13.0	7	30	302	60	13.1	12	19	257	33	13.1	13	39	310	29	13.3	11	27	291	30	13.4	05	20	307	36	600
550		26	32			23	28	262	15					14	37	304	66			22	31																		

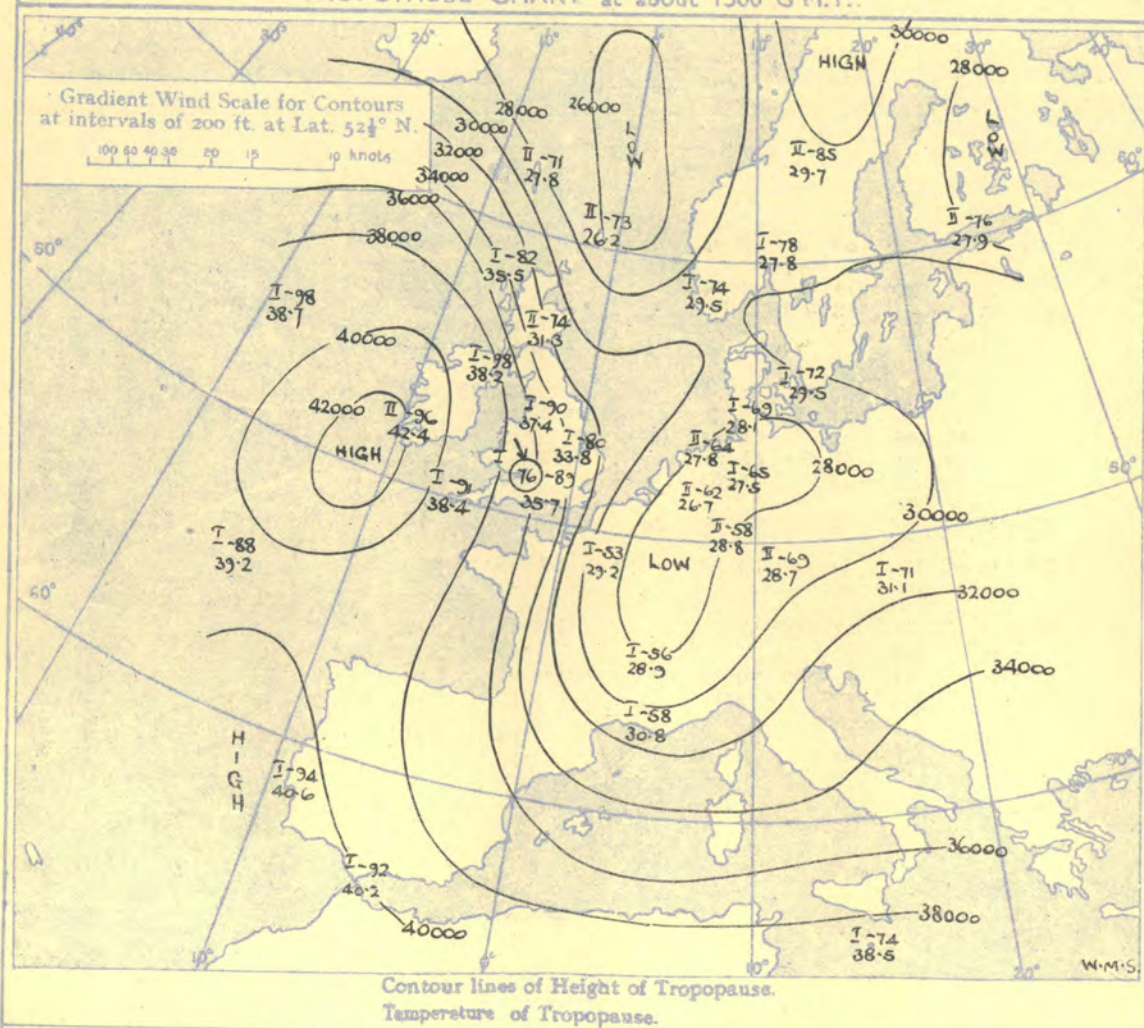
Tuesday 4th February 1995

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION							
Pressure Time M.S.L. Surf Freezing	1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		Time M.S.L. Surf Freezing											
	0955		mb		0955		mb		1002.2		mb		1006.0		mb		1007.7		mb		1008.4		mb		1011.5		mb		1013.7		mb													
	0955		mb		0955		mb		1001.3		mb		0997.2		mb		1005.6		mb		1003.9		mb		0953		mb		1003.0		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	27	38	30	Calm	0.5	33	34		0.2	43	29	250	20	2.7	39	32	240	10	0.6	43	34	285	12	1.2	42	36	210	10	4.4	44	37	270	10	2.9	47	42	247	12	0.3	44	42	Surf		
1000	-07				-30				0.5	43	29			1.6					2.0	42	34	286	20	2.2	42	36			3.1				3.7	47	42		6	44	42	1000				
950		35	28	144	08					35	28	265	28		34	27	24	24		35	31	290	20		37	31	251	31		38	32	268	18		40	36	296	26		41	40	950		
900	27.1	29	25	142	03	27.5	28	20	28.3	29	20	275	33	29.5	29	22	257	23	29.9	28	21	291	21	30.2	30	26	258	32	31.1	31	26	273	26	31.9	33	30	263	29	28.8	38	38	900		
850		21	16	140	05		22	11		23	15	272	29		23	16	268	26		21	11	288	24		25	17	269	35		25	21	282	35		28	25	264	32		38	38	850		
800	57.3	14	12	141	06	57.8	16	03	58.6	17	09	269	32	59.9	17	9	279	27	60.1	15	02	293	24	60.6	19	-03	266	37	61.6	21	05	286	39	62.6	23	21	264	36	60.1	34	34	800		
750		07	02	154	03		10	-6		10	02	277	34		12	1	282	30		10	-8	292	27		13	03	258	37		15	01	286	39		19	-02	267	36		29	29	750		
700	90.5	02	-06	207	03	91.2	02	-14		03	-05	279	37	93.4	06	-10	277	35	93.5	05	-16	289	36	94.2	07	-14	263	39	95.4	11	-12	279	42	96.6	11	01	269	32	95.0	25	25	700		
650		-03	-14	264	04		-5	-22		-05	-15	282	44		02	-10	280	37		02	-20	289	44		02	-23	275	46		05	-20	280	43		12	08	284	36		21	20	650		
600	128	-13	-28	254	12	129	-13	-24	129	-11	-26	284	44	131	00	-4	290	45	131	-2	-13	294	49	132	-05	-31	284	49	134	-1	-24	293	43	135	08	04	287	46	135	14	10	600		
550		-23	-36	282	15		-17	-32		-19	-33	295	44		-7	-12	290	54		-8	-17	300	57		-10	-37	295	48		-7	-21	306	46		00	-04	292	59		8	2	550		
500	170	-36	-46	270	18	172	-18	-40		172	-24	-41	304	58	176	-14	-18	290	59	175	-15	-24	308	67	176	-18	-43	308	63	178	-16	-26	313	50	180	-09	-13	293	63	180	0	-6	500	
450		-48		263	16		-25	-48		-28	-49	304	81		-23	-27	293	64		-24	-33	312	73		-27	-51	315	76		-22	-32	320	71		-20	-25	299	71		-10	-18	450		
400	219	-60		248	15	223	-35	-58		224	-36	-53	305	98	228	-34	-38	292	73	227	-35	-41	313	86	227	-36	-58	326	85	230	-32	-42	319	84	232	-31	-36	307	70	233	-22	-32	400	
350		-68		255	23		-47			-47			303	105		-47	288	87		-47		316	89		-47		322	96		-45		318	90		-42		315	72		-35	-45	350		
300	279	-74		284	32	287	-60			287	-62		310	110	291	-61		307	115	290	-61		305	100	291	-62		321	112	293	-60		318	100	296	-59		323	88	298	-49		300	
250		-77		291	45		-76				-75					-77		308	109		-77		311	104		-78		322	101		-76		326	102		-75		324	99		-65		250	
200	362	-77		286	49	370	-78			370	-79				373	-96		305	111	373	-89		317	93	374	-66		313	60	376	-81		325	76	379	-90		323	80	383	-87		200	
170		-76		289	46		-74				-72					-90					-82		319	71		-65		290	54		-73		311	60		-80		311	61		-95		170	
150		-78		290	18		-78									-85					-78		311	60		-64		289	51		-63		300	44		-70		300	49		-89		150	
130		-79		283	50		-73														-71					-66		289	49		-69		298	36		-68		303	44		-77		130	
110		-79		278	57																-72					-64		280	36		-65		302	40		-66					-75		110	
100	503	-79		278	59																-74					-64		278	46	520	-69		299	30	522	-65						100		
90		-78		276	62																-71					-63		276	51		-69		297	38		-65					-72		90	
80		-79		277	63																-68					-60		278	46		-67		303	38		-66					-71		80	
70		-80																			-69					-62					-62					-65					-71		70	
60																					-69					-62					-62					-65						60		
				Inversion. 557mb-18°-534mb-13°								Isothermal. 720-686mb 05°								Isothermal. 686-670mb 05°								Inversion. 694mb 10°-650mb 12°								Inversion. 900mb 38°-862mb 39°								
Tropopause				325mb-73° 26.200				275mb-82° 35.500				265mb-74° 31.300				192mb-95° 38.200				203mb-90° 37.400				238mb-80° 33.800				219mb-89° 35.700				195mb-91° 38.400				163mb-96° 42.400				Tropopause				
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION							
Pressure Time M.S.L. Surf Freezing	2100h.		G.M.T.		2100h.		G.M.T.				G.M.T.		2100h.		G.M.T.				G.M.T.		2100h.		G.M.T.		2100h.		G.M.T.		2100h.		G.M.T.				G.M.T.		Time M.S.L. Surf Freezing							
	0952		mb		0951		mb				mb		1002.7		mb				mb		1010.8		mb		1012.0		mb		1011.2		mb				mb									
	0951		mb		0952		mb				mb		0940		mb				mb		1006.2		mb		0957		mb		1006.4		mb				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	27	38	26	112	08	0.5	33	31	Calm					2.3	38	36	150	12							1.2	38	33	200	04	4.4	41	40		2.9	48	48	247	15				Surf		
1000	-03					-20								0.7												2.9	38	32			3.2				3.0	48	48					1000		
950		34	25	124	10		34	27	188	07					34	32	175	36								36	26	257	19		37	36		44	44	256	46					950		
900	27.5	27	21	115	07	276	28	19	196	10				28.6	32	31	187	37								30.8	29	18	256	18	31.2	33	31		315	40	40	265	46				900	
850		20	13	114	09		23	13	201	12					29	29	207	35									23	08	261	18		29	27		36	35	280	44					850	
800	57.7	12	06	114	12	57.9	17	04	223	14				59.4	26	26	222	24									61.1	19	-04	277	18	62.0	26	24		33	31	284	49					800
750		07	-04	115	10		11	-4	236	17					23	23	290	25									19	-07	285	29		22	20		26	25	285	51					750	
700	90.9	00	-16	132	03	91.3	04	-11	293	23				93.8	20	19	268	30									94.7	07	-02	282	38	96.3	19	7		19	17	284	53					700
650		-07	-21	173	02																																							

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

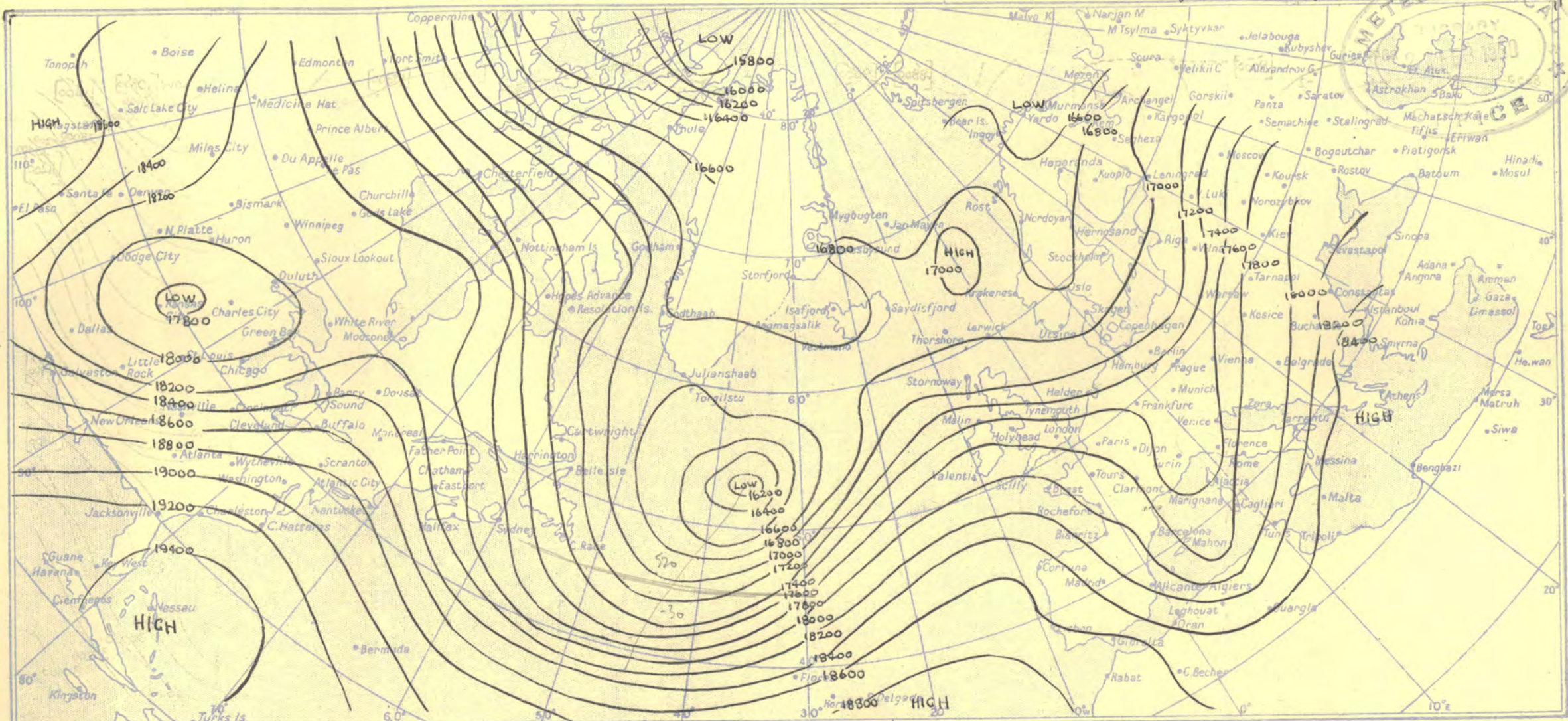


NOTES ON THE AEROLOGICAL SITUATION.

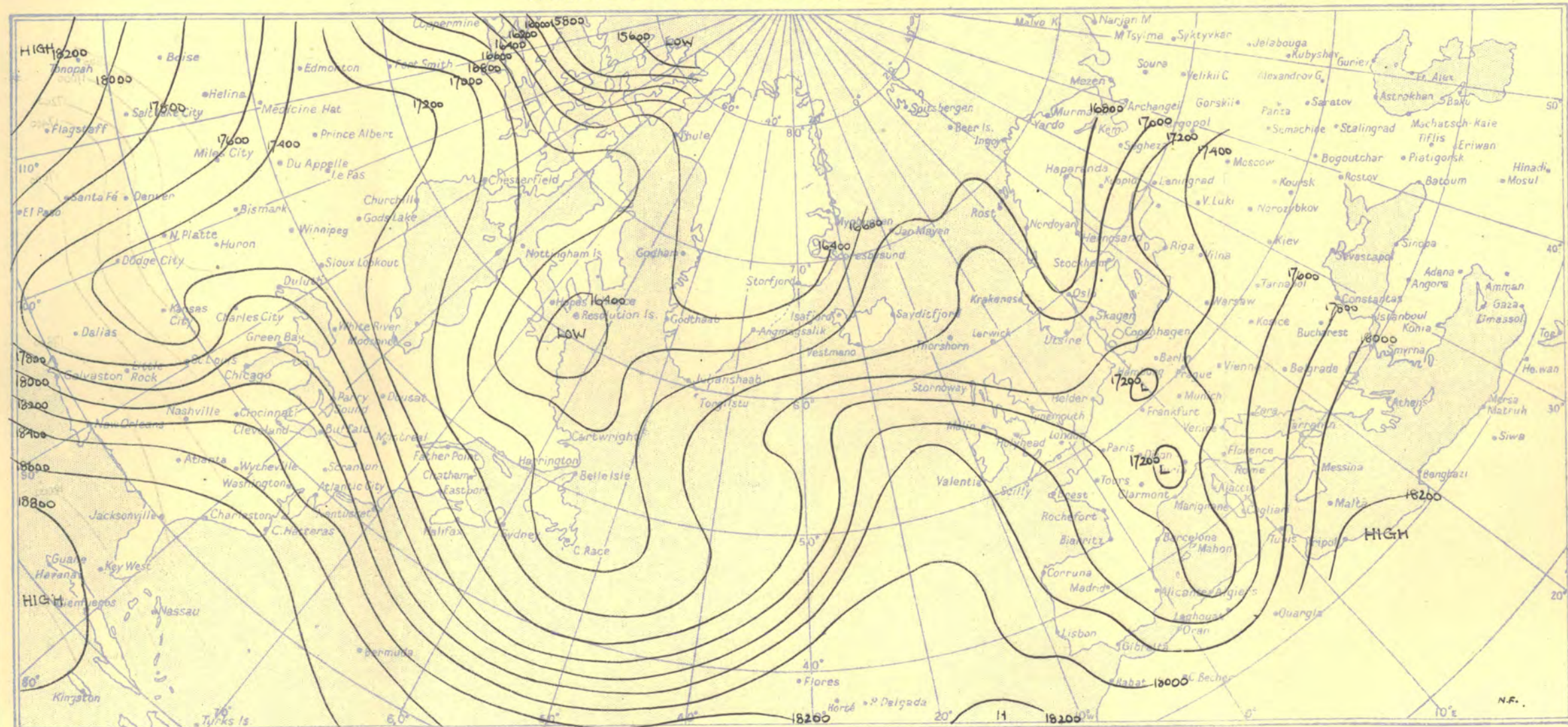
A pronounced cold trough from the North Sea to the Western Mediterranean moved east to the position of a line from the Baltic to Tunis, as warm air spread into Western Europe and the North Sea.

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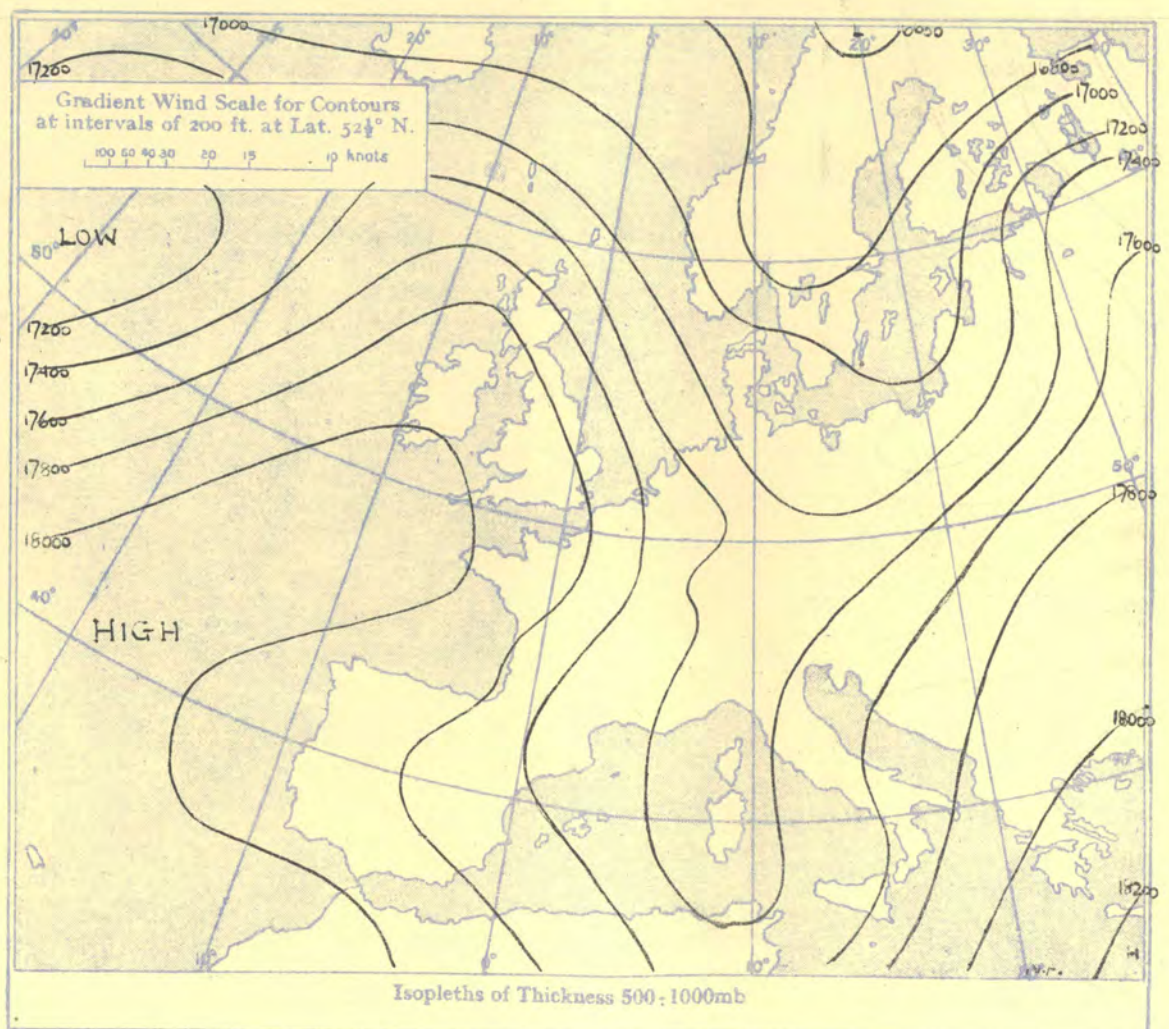
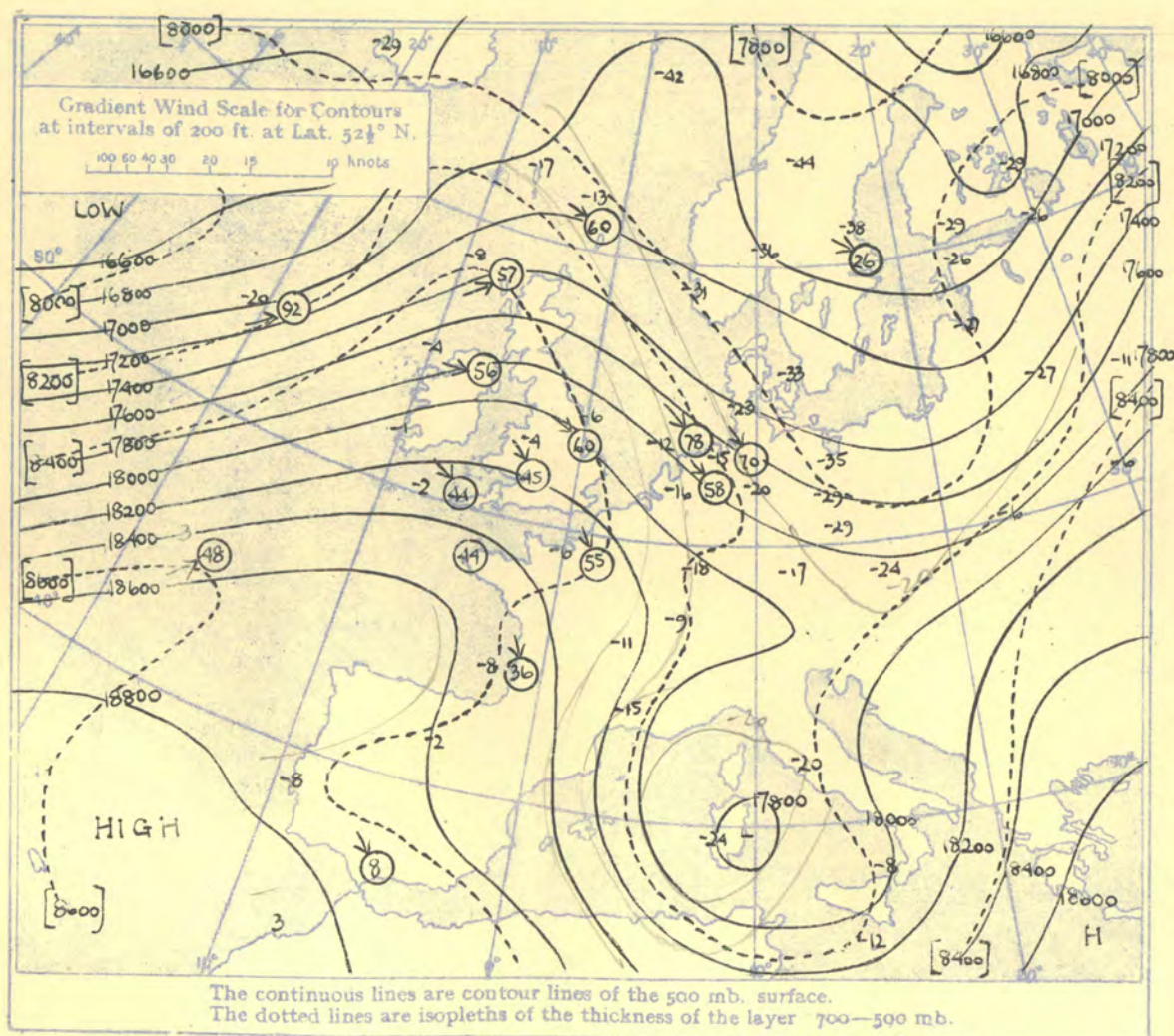
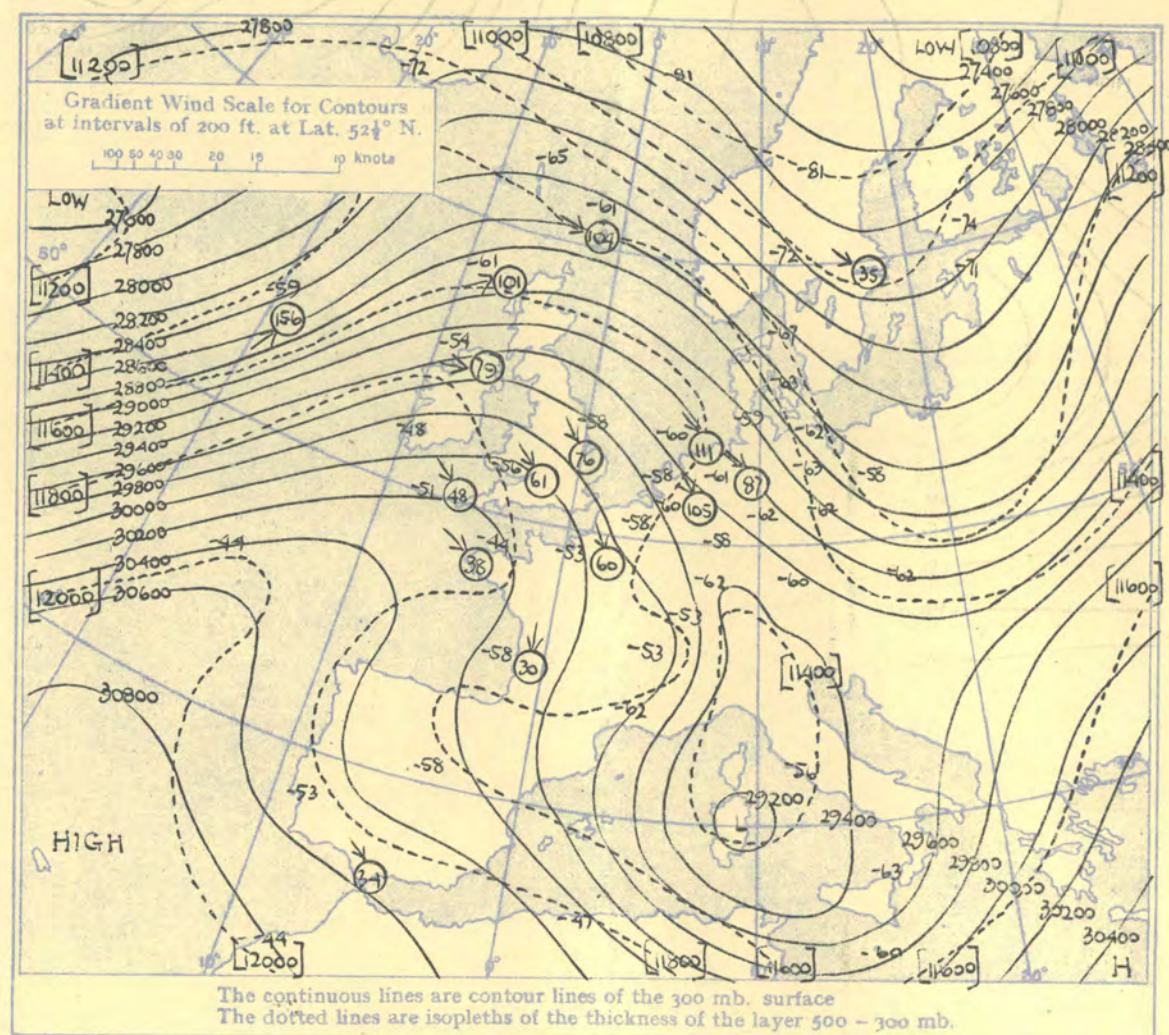
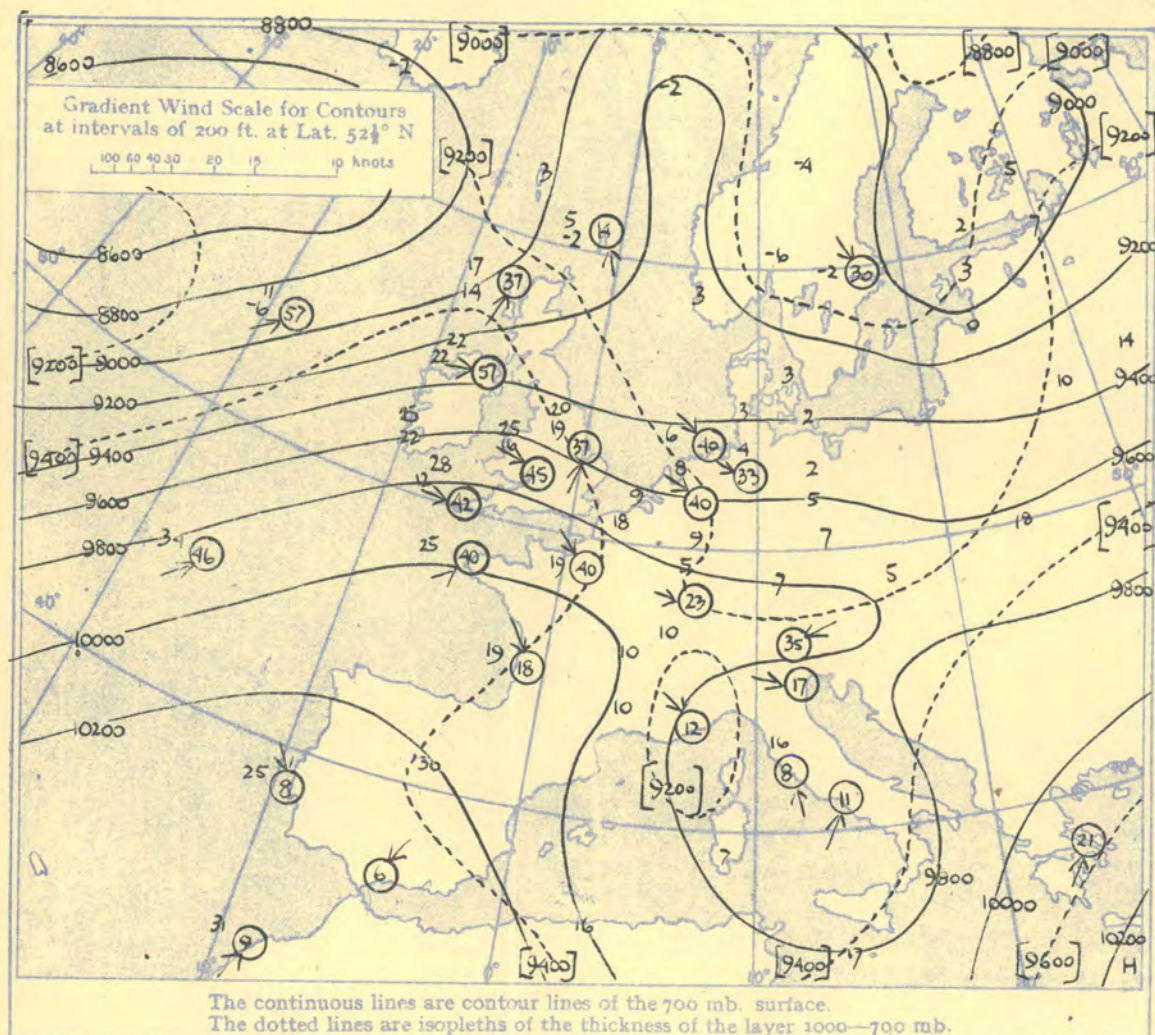
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Tuesday 14th February 1950.



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 0300 G.M.T.



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

Time M.S.L. Surf Freezing	18-2N 20SW			15-1N 14-7W			13-2N 17-0W			11-3N 004W			Time M.S.L. Surf Freezing
	14h. 14/2	15h. 14/2	16h. 14/2	15h. 14/2	16h. 14/2	17h. 14/2	15h. 14/2	16h. 14/2	17h. 14/2	15h. 14/2	16h. 14/2	17h. 14/2	
Pressure	1004 mb	1006 mb	1027 mb	1006 mb	1023 mb	1011.3 mb	1002 mb	1023 mb	1011.3 mb	1002 mb	1023 mb	1011.3 mb	Pressure
Height	735	800	760	800	760	880	800	760	880	800	760	880	Height
Temp.	53 48	52 49	53 48	52 49	53 48	52 49	53 48	52 49	53 48	52 49	53 48	52 49	Temp.
Dew	53 48	52 49	53 48	52 49	53 48	52 49	53 48	52 49	53 48	52 49	53 48	52 49	Dew
Wind	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Wind
Surf	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Surf
1000	950	950	950	950	950	950	950	950	950	950	950	950	1000
950	900	900	900	900	900	900	900	900	900	900	900	900	950
900	850	850	850	850	850	850	850	850	850	850	850	850	900
850	800	800	800	800	800	800	800	800	800	800	800	800	850
800	750	750	750	750	750	750	750	750	750	750	750	750	800
750	700	700	700	700	700	700	700	700	700	700	700	700	750
700	650	650	650	650	650	650	650	650	650	650	650	650	700
650	600	600	600	600	600	600	600	600	600	600	600	600	650
600	550	550	550	550	550	550	550	550	550	550	550	550	600
550	500	500	500	500	500	500	500	500	500	500	500	500	550
500	450	450	450	450	450	450	450	450	450	450	450	450	500
450	400	400	400	400	400	400	400	400	400	400	400	400	450
400	350	350	350	350	350	350	350	350	350	350	350	350	400
350	300	300	300	300	300	300	300	300	300	300	300	300	350
300	250	250	250	250	250	250	250	250	250	250	250	250	300
250	200	200	200	200	200	200	200	200	200	200	200	200	250
200	170	170	170	170	170	170	170	170	170	170	170	170	200
170													170

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

Time M.S.L. Surf Freezing	18-2N 20SW			15-1N 14-7W			13-2N 17-0W			11-3N 004W			Time M.S.L. Surf Freezing
	14h. 14/2	15h. 14/2	16h. 14/2	15h. 14/2	16h. 14/2	17h. 14/2	15h. 14/2	16h. 14/2	17h. 14/2	15h. 14/2	16h. 14/2	17h. 14/2	
Place	Shoebury	Leeming	Stornoway	Liverpool	Leuchars	Orkhill	Orkhill	Weather	Weather	Weather	Weather	Weather	Place
Time	09h. 14/2	15h. 14/2	15h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	Time
Type													Type
Feet	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Feet
Surf.	270 10	230 10	225 05	220 12	210 05	210 09	250 15	230 28					Surf.
1,000	290 24	280 40	270 14	230 13	250 18	211 27	240 24	250 39					1,000
2,000	300 20	290 19	270 14	230 14	250 18	224 24	253 35	240 36					2,000
3,000	290 20	310 31	265 12	240 17	250 18	230 26	261 44	240 36					3,000
4,000	300 19	310 30	267 15	240 16	260 16	234 29	265 48	240 38					4,000
5,000	300 26		268 21	240 22	260 16	239 35	265 47	240 40					5,000
6,000	290 29		269 21	240 28	260 16	254 36	264 42	240 45					6,000
8,000	280 27		271 21	260 37	270 18	271 45	263 42	240 41					8,000
10,000	290 25		275 22	270 39	290 31	283 51	264 46	240 44					10,000
14,000	340 32		287 39	290 51	290 50	294 50	270 50	250 48					14,000
18,000	310 38		292 77	290 64	290 57	302 65	278 54	250 60					18,000
24,000	300 38		292 96	300 68	300 84	312 66	274 45	250 76					24,000
30,000	320 64		290 105	310 97	300 123	323 97	280 51	250 84					30,000
40,000	280 36		290 69	300 55	300 120	307 46	290 55	250 69					40,000
50,000	270 43		290 57	300 45	300 68	282 36	281 45	250 53					50,000

NEPHOSCOPE OBSERVATIONS

Place	Swindonby	Ballykelly											Place
Time Type	09h. 14/2	15h. 14/2	15h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	21h. 14/2	Time Type
Dir. Vel.	280 36	320 57											Dir. Vel.

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

Ship	WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER				Ship									
Lat/Long	53° 8' N. 18° 7' W.				60° 0' N. 19° 9' W.				53° 9' N. 18° 6' W.				60° 0' N. 20° 0' W.				53° 8' N. 18° 7' W.				60° 0' N. 20° 1' W.				53° 8' N. 18° 7' W.				60° 1' N. 19° 8' W.				Lat/Long	
Pressure { Time M.S.L. Surf Freezing	14th Feb. 15h. G.M.T.				14th Feb. 15h. G.M.T.				14th Feb. 21h. G.M.T.				14th Feb. 21h. G.M.T.				15th Feb. 03h. G.M.T.				15th Feb. 03h. G.M.T.				15th Feb. 09h. G.M.T.				15th Feb. 09h. G.M.T.				G.M.T.	Time
	988 mb				991 mb				984 mb				985 mb				985 mb				974 mb				987 mb				970 mb				mb	M.S.L.
	988 mb				991 mb				984 mb				985 mb				985 mb				974 mb				987 mb				970 mb				mb	Surf
	800 mb				945 mb				800 mb				915 mb				870 mb				945 mb				885 mb				920 mb				mb	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	Pressure mb					
Surf		51	51	220 18		38	29	090 12		49	48	220 27		40	24	100 25		45	38	220 28		36	34	060 30		47	36			Surf				
1000	-3.2				-2.3				-4.5				-3.9				-4.0				-7.0				-3.7					1000				
950		47	47	225 32		33	27	101 26		46	45	234 35		36	24	097 40		42	16	231 54		33	33	082 37		42	29			950				
900	35.4	42	42	228 32	25.3	25	22	099 16	24.0	41	40	234 39	24.1	30	25	095 31	24.3	36	27	232 54	20.7	25	25	085 44	24.6	34	24			900				
850		37	37	231 31		19	15	094 12		36	35	234 46		30	22	092 32		30	20	235 52		21	21	094 35		28	21			850				
800	56.7	32	31	242 27	55.4	14	01	084 13	55.3	31	30	236 46	54.4	16	16	095 29	55.2	24	14	235 50	50.9	15	18	100 28	55.3	22	06	For		800				
750		26	26	240 33		08	09	078 15		26	25	236 48		07	01	097 24		18	00	227 57		13	13	106 27		16	01	winds		750				
700	71.3	21	20	237 36	88.7	01	19	074 14	89.9	21	20	228 45	87.8	06	03	099 16	89.2	11	04	227 57	84.5	06	05	141 29	87.1	07	06			700				
650		16	15	226 42		02	21	003 02		17	15	222 43		03	01	154 12		03	01	154 12		01	02	185 35		02	12	see		650				
600	130	10	06	218 55	127	05	27	272 23	129	10	08	218 63	126	03	06	209 20	127	05	20	230 77	122	07	08	200 41	127	07	13			600				
550		02	01	229 88		09	18	268 32		03	00	217 77		09	12	207 22		11	20	229 84		14	16	206 40		14	31	page		550				
500	175	06	11	229 60	170	18	23	267 39	174	05	08	214 104	170	17	21	207 32	171	20	28	224 92	166	19	21	208 44	171	20	45			500				
450		16	22	234 68		29	33	241 50		15	19	216 103		26	31	210 41		23	38	229 118		25	27	210 47		24	57	S-		450				
400	228	26	31	236 78	221	40	45	230 50	227	28	33	223 114	221	38	43	220 51	223	32	41	222 124	227	32	34	212 52	222	30	57			400				
350		39	44	235 82		52		244 66		41		223 118		53		207 59		44		213 155	(377) (mb)	36	38			39	59			350				
300	292	56		239 93	284	66		247 68	291	58		223 118	283	67		202 70	286	59		218 156					287	53			300					
250		76		239 100		80			(294) (mb)	61				73		212 68	75			225 175						70			250					
200		94		247 103		81								73		218 40	(243) (mb)	77						(202) (mb)	67				200					
170	(173) (mb)	70				76								67		229 40													170					
150						77								73		242 32													150					
130	(189) (mb)	78				75								74		256 45													130					
110						75								76		261 46													110					
100						76							516	73		226 33													100					
90						77								75		224 32													90					
80						77								76															80					
70						78																							70					
60						78																							60					
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RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

Wednesday 15th February 1950

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION																																																																																	
Pressure mb	Time M.S.L.	0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		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	Surf	Freezing	Surf	Freezing																																																																																								
		989.7	932	mb	mb	992.6	944	mb	mb	1001.0	937	mb	mb	998.2	760	mb	mb	1002.0	772	mb	mb	1003.7	795	mb	mb	1010.3	791	mb	mb	1013.0	780	mb	mb			1001.6	750	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																																																																																				
Surf	02.7	38	26	113	14	00.5	39	36	135	12	00.2	38	35	02.3	47	46	210	18	00.6	52	47	235	28	01.2	40	39	160	10	04.4	48	47	250	17	02.4	50	48	225	18	00.3	53	50																																																																														
1000	-0.1	35	27	115	21	-2.0	33	30	146	29	0.2	38	35	-0.5	46	45	230	45	0.6	52	47	235	25	2.2	40	39	27	27	45	44	262	38	3.3	50	48	230	26	5	53	50																																																																															
950	27.8	27	23	115	24	25.9	29	26	163	36	28.0	29	29	27.9	37	37	239	45	29.2	43	40	250	46	30.3	37	37	257	38	31.1	45	44	261	45	31.8	42	41	240	45	29.2	49	46																																																																														
900	20	18	120	21	25	25	22	171	34	28.0	29	29	29	27.9	37	37	250	52	40	37	256	49	30.3	35	35	279	46	34	33	268	48	40	34	256	45	29.2	41	38																																																																																	
850	57.9	16	07	130	18	56.3	23	21	179	33	58.4	22	20	57.1	36	27	253	53	60.7	35	32	261	50	61.4	32	32	284	49	62.4	33	31	263	50	63.2	34	30	261	47	60.8	38	35																																																																														
800																																																																																																																							
750	11	08	138	18	20	19	193	28	19	15	19	15	19	11	31	20	253	56	30	27	264	55	31.1	26	26	286	52	32	29	270	45	33	28	262	46	31	28	262	46																																																																																
700	91.4	05	-07	155	14	90.4	17	14	215	37	92.5	17	13	94.1	26	22	257	57	95.6	24	21	268	57	96.1	20	19	285	51	97.3	25	10	278	45	98.0	28	12	266	42	98.3	25	22																																																																														
650	-04	-15	175	15	13	09	254	47	13	08	13	08	13	133	13	10	266	57	135	11	07	266	59	135	10	06	295	54	137	13	06	287	45	138	16	01	267	44	135	15	02																																																																														
600	-15	-21	198	13	129	09	03	242	53	131	08	02	131	06	02	269	48	135	04	00	267	57	135	02	00	297	55	137	13	06	287	45	138	16	01	267	44	135	15	02																																																																															
550	-15	-26	270	28	00	-05	245	54	00	-05	245	54	00	179	04	-09	269	56	180	-04	-10	268	59	180	-04	-12	295	60	182	-04	-09	295	45	183	-02	-08	272	44	181	-01	-08																																																																														
500	172	-13	-28	293	60	174	-08	-16	246	57	176	-07	-14	179	-04	-09	269	56	180	-04	-10	268	59	180	-04	-12	295	60	182	-04	-09	295	45	183	-02	-08	272	44	181	-01	-08																																																																														
450	-25	-34	291	57	-11	-27	247	69	-11	-25	247	69	-11	224	-26	-33	268	61	223	-26	-33	268	66	233	-30	-36	306	61	235	-30	-34	299	60	236	-23	-26	275	44	234	-20	-30																																																																														
400	-47	28.2	87	-43	257	95	-43	257	95	-43	257	95	-43	296	-54	276	79	297	-57	269	74	297	-58	309	76	299	-56	307	61	301	-51	285	48	300	-49	288	54	300	-49	288	54																																																																														
350	224	-35	-40	281	74	227	-31	-29	257	82	229	-29	-38	380	-87	278	87	380	-88	277	76	380	-88	309	80	382	-93	304	69	385	-89	291	53	385	-87	291	53	385	-87	291	53																																																																														
300	287	-61	282	104	240	-61	253	101	293	-60	293	-60	293	380	-87	278	87	380	-88	277	76	380	-88	309	80	382	-93	304	69	385	-89	291	53	385	-87	291	53	385	-87	291	53																																																																														
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100	-74	284	56	-79	279	51	-79	279	51	-79	279	51	-79	380	-87	278	87	380	-88	277	76	380	-88	309	80	382	-93	304	69	385	-89	291	53	385	-87	291	53	385	-87	291	53																																																																														
90	-74	284	56	-79	279	51	-79	279	51	-79	279	51	-79	380	-87	278	87	380	-88	277	76	380	-88	309	80	382	-93	304	69	385	-89	291	53	385	-87	291	53	385	-87	291	53																																																																														
80	-74	284	56	-79	279	51	-79	279	51	-79	279	51	-79	380	-87	278	87	380	-88	277	76	380	-88	309	80	382	-93	304	69	385	-89	291	53	385	-87	291	53	385	-87	291	53																																																																														
70	-74	284	56	-79	279	51	-79	279	51	-79	279	51	-79	380	-87	278	87	380	-88	277	76	380	-88	309	80	382	-93	304	69	385	-89	291	53	385	-87	291	53	385	-87	291	53																																																																														
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Inversion		560 mb -17°-522mb -08°		Isothermal		775 - 758 mb 21°		Inversion		400mb 37°-813 mb 38°		Isothermal		723-710 mb 28°		Inversion		887 - 867 mb 42°		Isothermal		840 - 812 mb 38°		Isothermal		850 mb 34°-840mb 36°		Inversion		75 (046 mb)		461 - 450mb -10°		Inversion		880 mb 41°-862 mb 42°		Isothermal		719 .. 24°-694 .. 29°		Isothermal		413 - 402 mb -22°		I 172 mb - 94°		41,500'																																																																							
Isothermal		940 - 976 mb 38°		Isothermal		984 - 950 mb 50°		Isothermal		987 - 957 mb 49°		Isothermal		800 - 790 mb 38°		Isothermal		850 mb 36°-828 mb 39°		Isothermal		865 - 800 mb 37°		Isothermal		830 - 800 mb 33°		Isothermal		790 mb 31°-767 mb 32°		Isothermal		830 - 800 mb 33°		Isothermal		790 mb 31°-767 mb 32°		Isothermal		830 - 800 mb 33°		Isothermal		790 mb 31°-767 mb 32°		Isothermal		830 - 800 mb 33°		Isothermal		790 mb 31°-767 mb 32°		Isothermal		830 - 800 mb 33°		Isothermal		790 mb 31°-767 mb 32°		Isothermal		830 - 800 mb 33°		Isothermal		790 mb 31°-767 mb 32°		Isothermal		830 - 800 mb 33°		Isothermal		790 mb 31°-767 mb 32°		Isothermal		830 - 800 mb 33°		Isothermal		790 mb 31°-767 mb 32°		Isothermal		830 - 800 mb 33°		Isothermal		790 mb 31°-767 mb 32°		Isothermal		830 - 800 mb 33°		Isothermal		790 mb 31°-767 mb 32°		Isothermal		830 - 800 mb 33°		Isothermal		790 mb 31°-767 mb 32°		Isothermal		830 - 800 mb 33°		Isothermal		790 mb 31°-767 mb 32°	

Wednesday, 15th February 1950

Wednesday, 15 February 1950

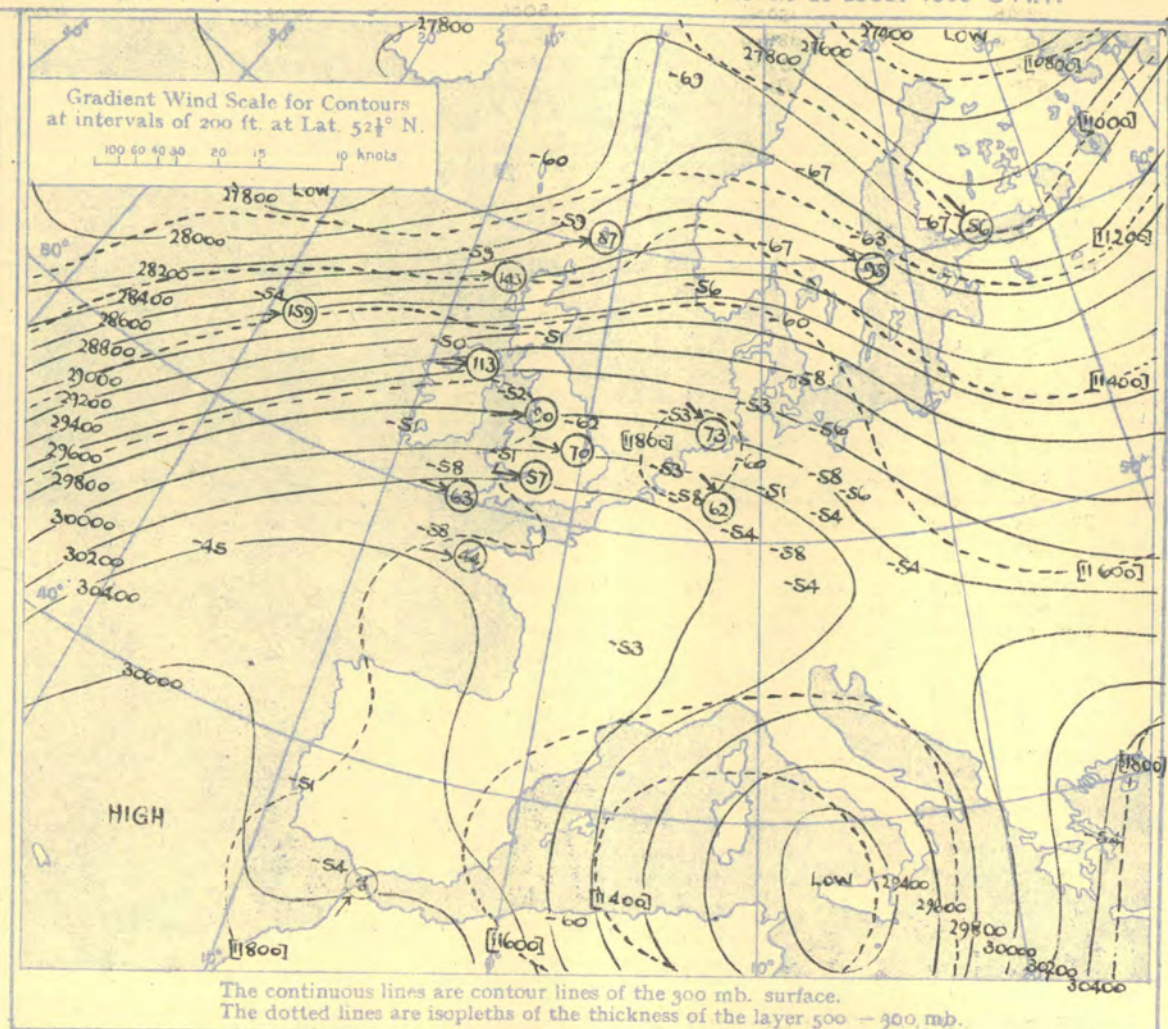
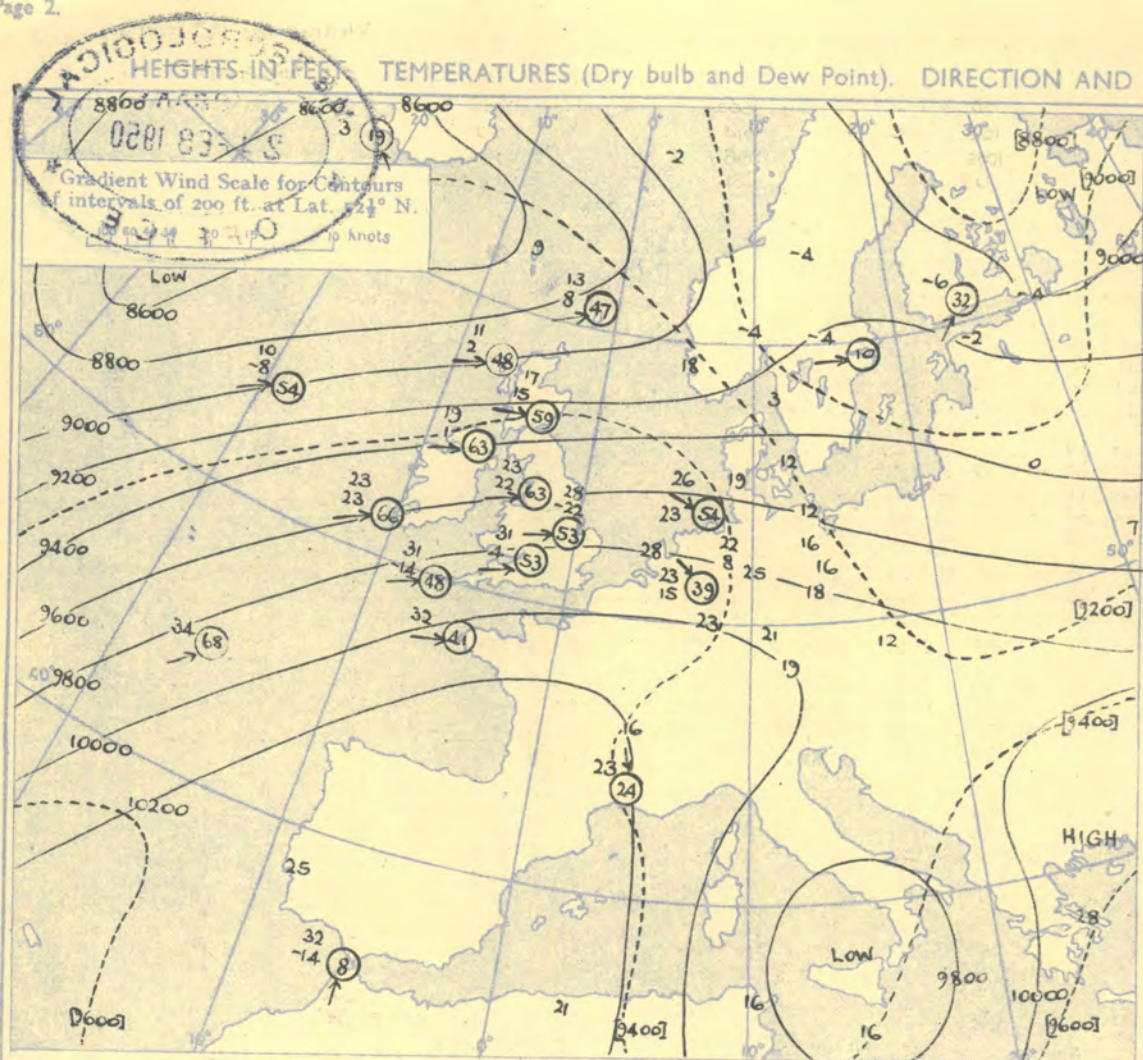
METEOROLOGICAL

VALENTIN

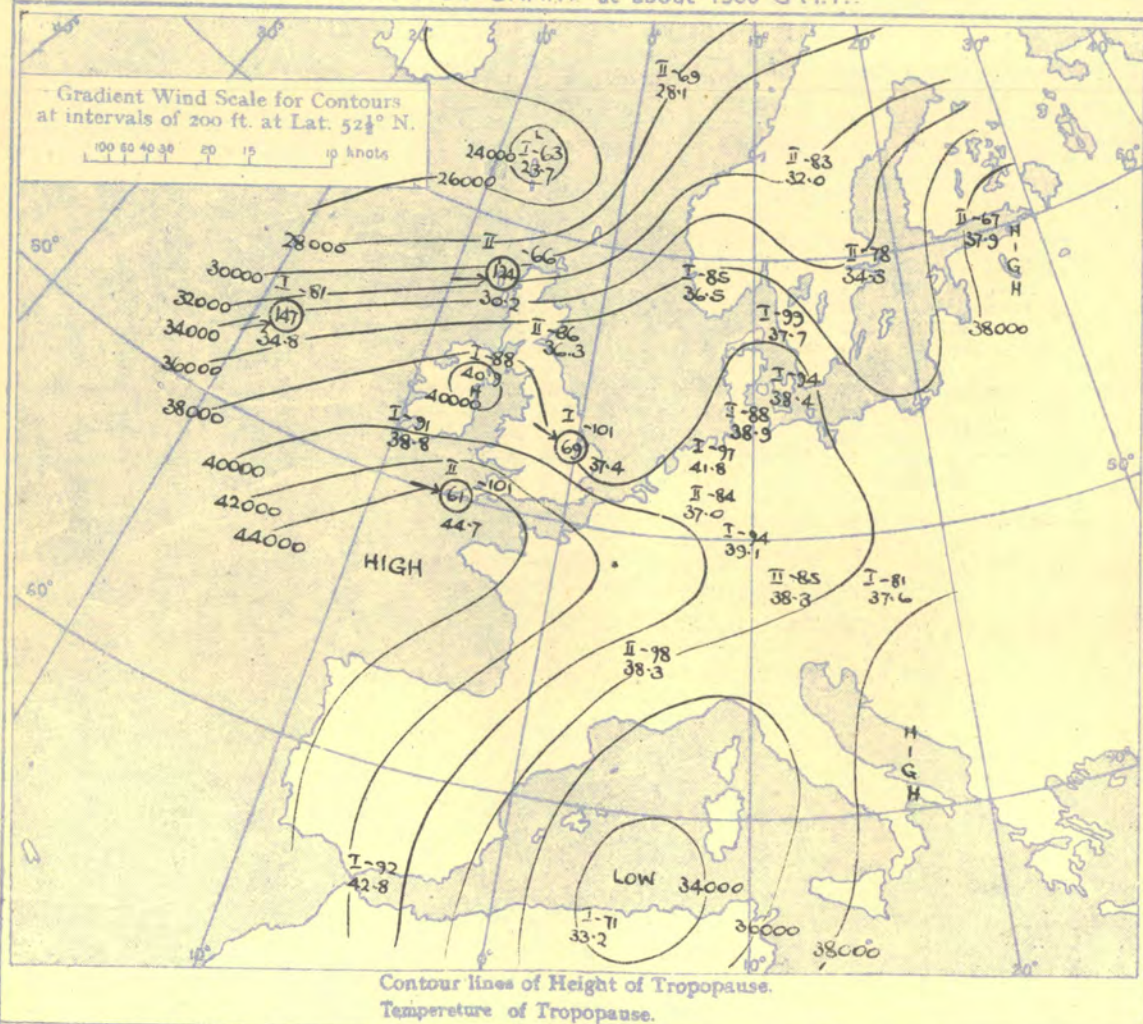
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TROPOPAUSE CHART at about 1500 G.M.T.

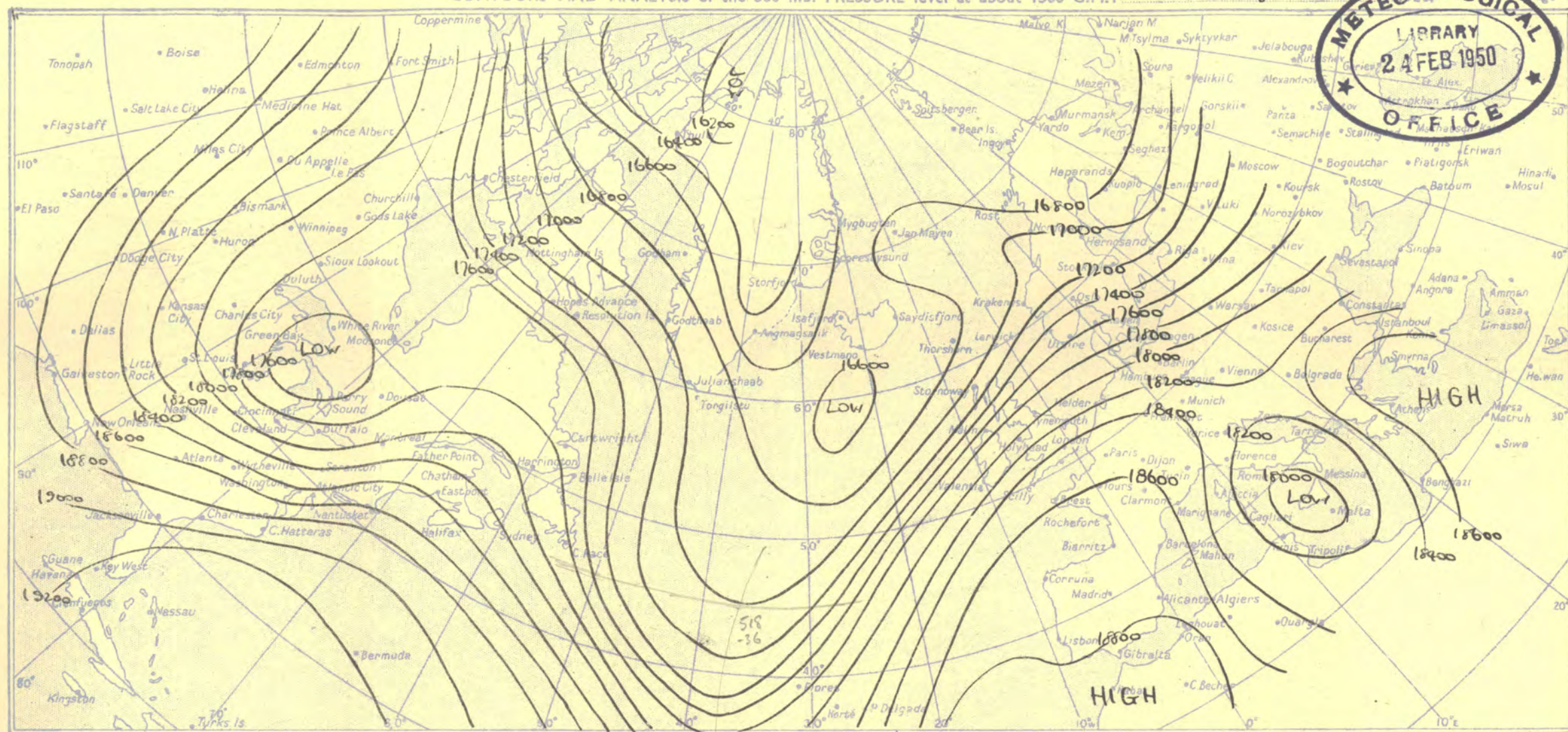
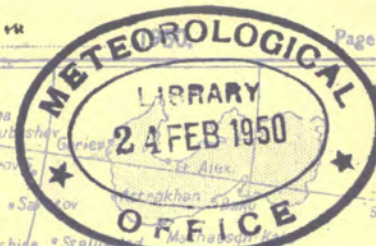


NOTES ON THE AEROLOGICAL SITUATION.

The spread of warm air northeastwards to Scandinavia was strongly maintained and the cold trough ahead weakened and moved quickly east leaving a cold pool in the Central Mediterranean. A well marked cold trough supplied from the Denmark Str. area formed in Central Atlantic.

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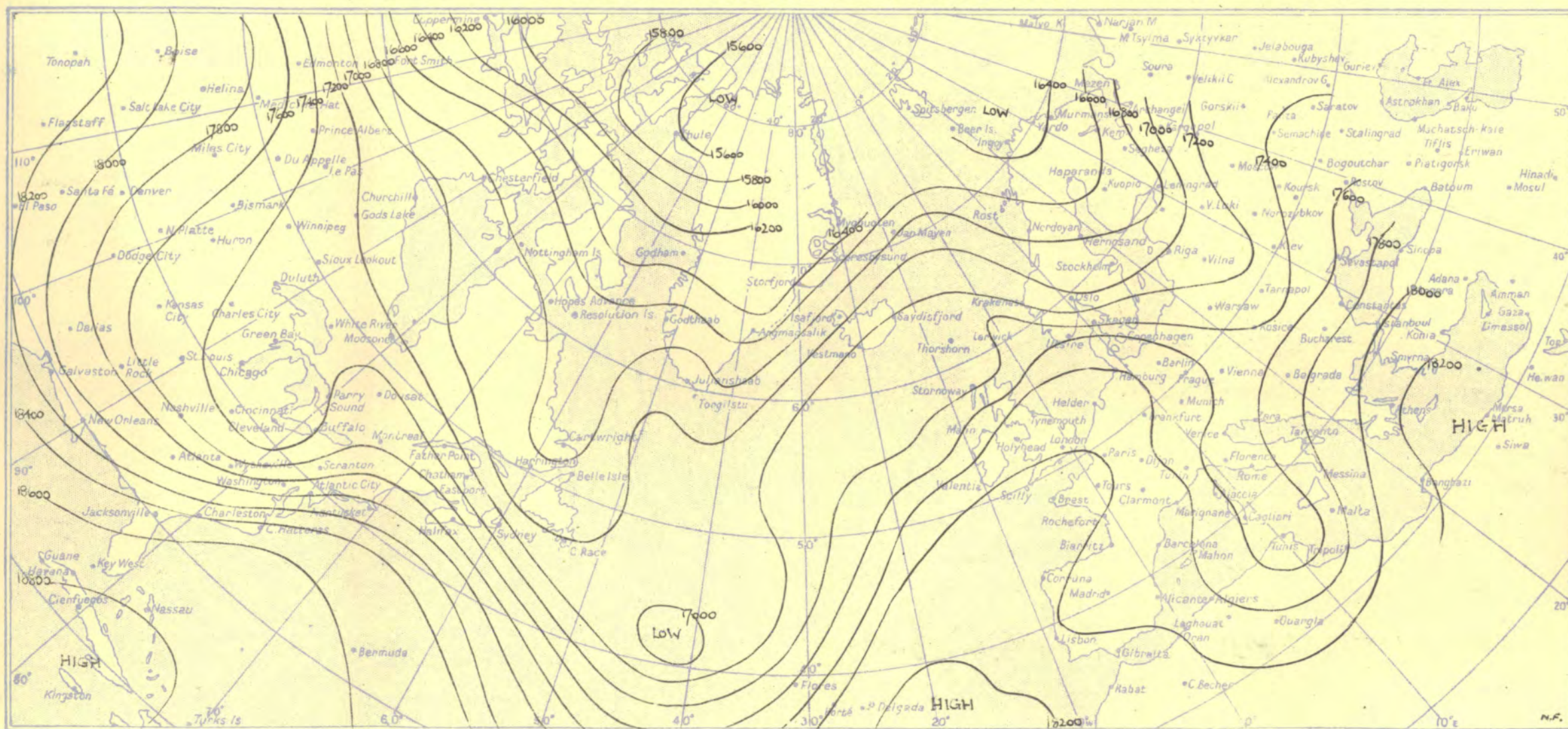
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



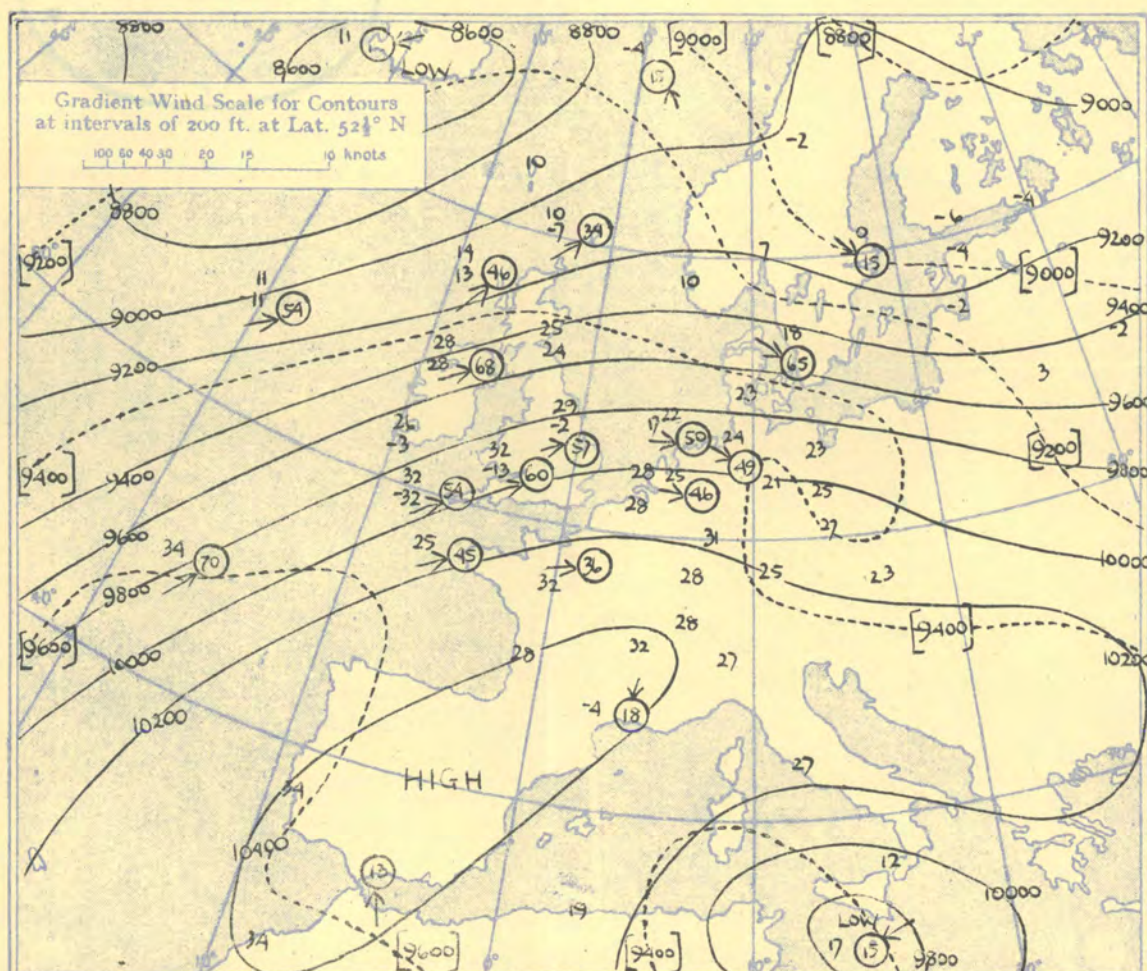
ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T.

Wednesday 15th February

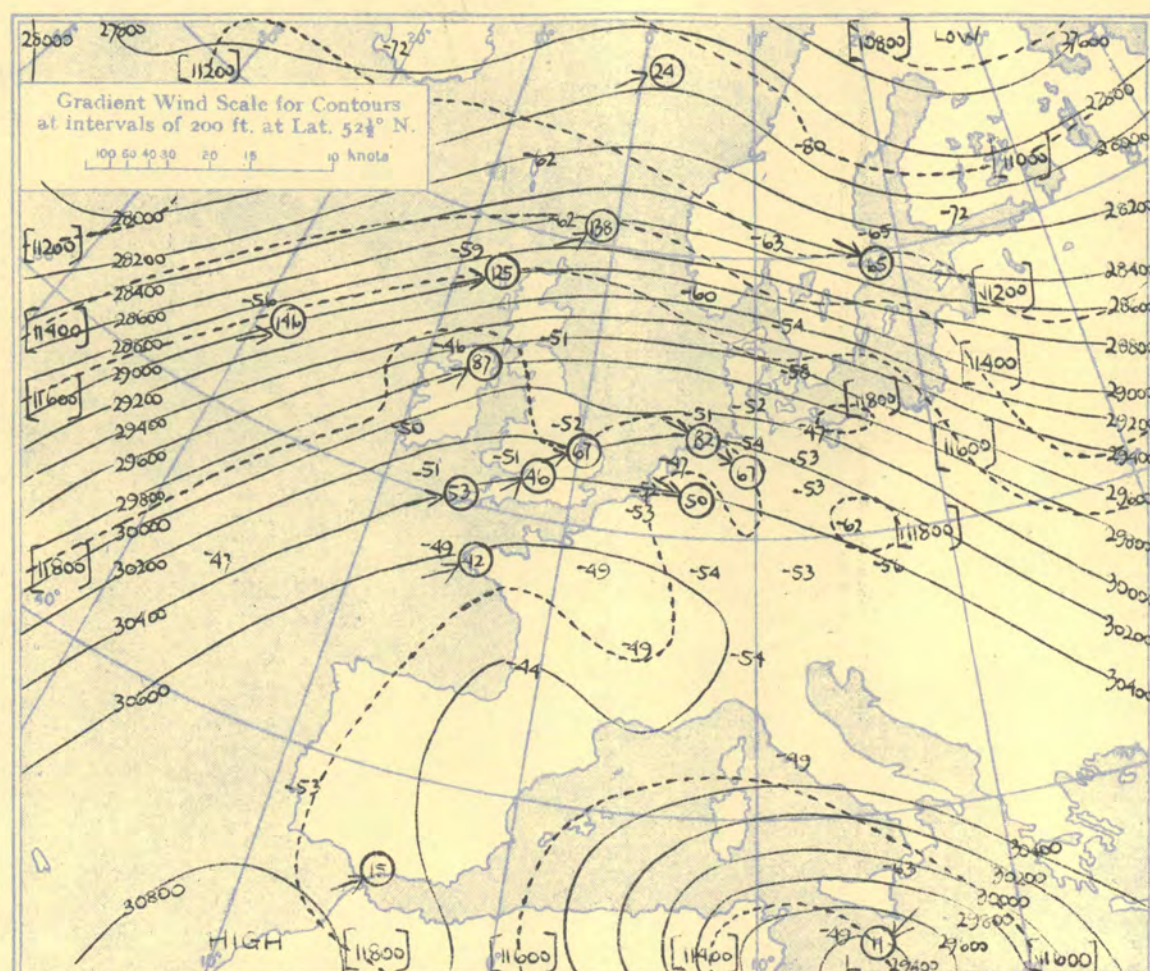
1950.



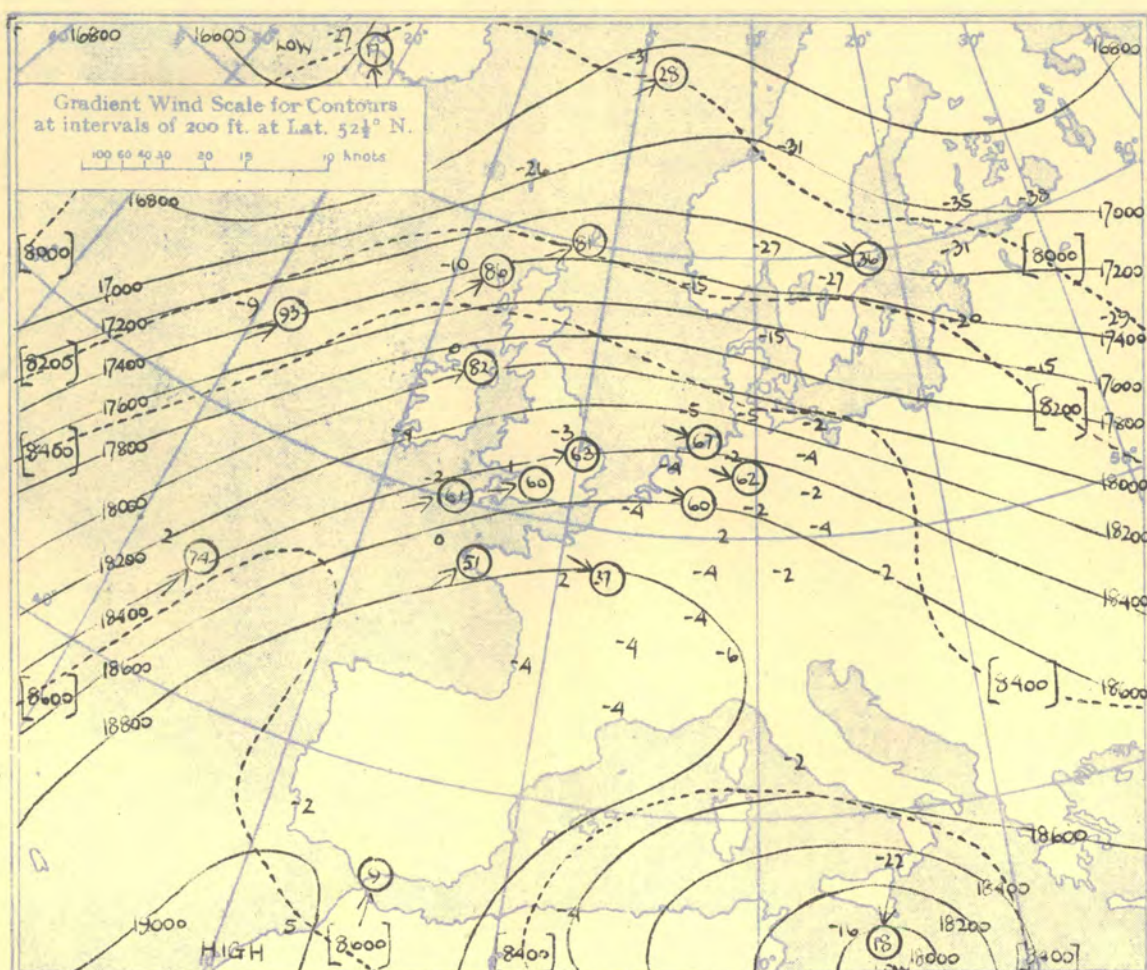
HEIGHTS IN FEET. TEMPERATURES (Dry bulb and Dew Point). DIRECTION AND VELOCITY (in knots) OF WINDS at the 700 mb., 500 mb. and 300 mb., levels at about 0300 G.M.T.



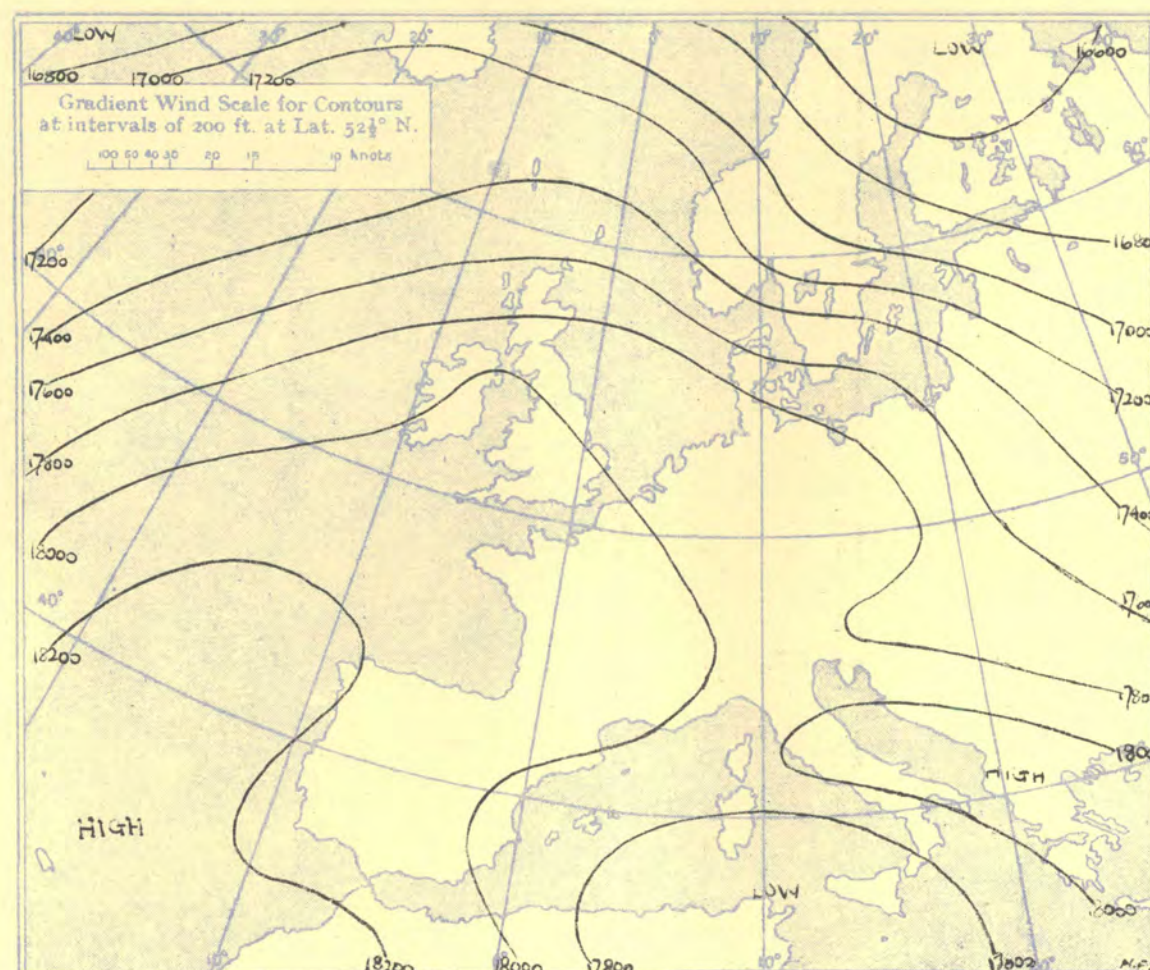
The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000—700 mb.



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

[illegible]

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

Ship	WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER				Ship		
Lat/Long	60° 1' N. 13° 7' W.				53° 9' N. 18° 6' W.				60° 0' N. 19° 3' W.				53° 8' N. 18° 8' W.				59° 8' N. 20° 1' W.				53° 9' N. 18° 7' W.				59° 9' N. 19° 9' W.				53° 8' N. 18° 7' W.				Lat/Long		
Pressure (Time M.S.L. Surf Freezing)	15 th Feb. 15h. G.M.T.				15 th Feb. 15h. G.M.T.				15 th Feb. 21h. G.M.T.				15 th Feb. 21h. G.M.T.				16 th Feb. 03h. G.M.T.				16 th Feb. 03h. G.M.T.				16 th Feb. 09h. G.M.T.				16 th Feb. 09h. G.M.T.				G.M.T.	Time	
	974 mb				989 mb				975 mb				988 mb				976 mb				990 mb				975 mb				991 mb				mb	M.S.L.	
	974 mb				989 mb				975 mb				988 mb				976 mb				990 mb				975 mb				991 mb				mb	Surf	
	880 mb				875 mb				870 mb				860 mb				895 mb				880 mb				890 mb				870 mb				mb	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																																Surf			
1000	-7.1	42	36	210 07	-3.0	48	36	220 30	-6.8	42	39	207 16	-3.4	44	35	215 37	-6.6	41	39	200 20	-2.7	48	41	230 25	-6.9	42	38	260 15	-2.7	49	38	220 20	1000		
950		39	32	220 15		42	32	223 40		39	38	218 24		44	35	215 37		37	36	212 31		42	37	229 35		39	33	218 24		43	32	216 27	950		
900	21.0	34	25	228 21	25.3	38	26	224 42	21.3	33	33	220 24	24.7	37	22	218 37	21.3	33	32	216 29	25.8	38	31	229 36	21.2	34	25	220 32	25.6	35	26	219 22	900		
850		28	18	240 25		28	21	225 42		28	26	220 24		31	15	221 42		27	23	218 27		28	20	228 44		26	19	232 29		29	17	223 27	850		
800	56.0	22	09	247 25	56.0	22	05	227 47	52.0	21	20	222 28	55.5	23	07	221 42	51.9	22	18	220 26	56.3	22	04	228 44	51.7	21	19	229 20	56.4	23	09	225 30	800		
750		15	00	246 25		16	02	230 54		14	14	226 31		17	08	222 42		16	12	224 28		18	14	227 53		15	13	215 17		18	05	226 36	750		
700	85.4	08	07	246 25	89.8	10	08	234 54	85.7	09	03	226 34	87.5	10	06	220 45	85.8	10	04	223 32	90.5	11	11	226 54	88.4	08	05	208 17	90.4	13	07	226 42	700		
650		00	14	243 25		03	15	230 60		01	12	225 35		04	06	221 54		04	04	219 34		01	01	225 54		01	01	203 24		07	04	228 48	650		
600	123	09	17	227 28	128	02	29	236 72	124	08	22	225 38	128	00	04	221 63	124	05	14	219 37	129	02	35	224 73	123	09	15	208 26	129	04	05	222 60	600		
550	-18	40	219	28	-08	28	239	87	-18	29	230	38	-08	13	215	78	-16	26	215	40	-01	38	221	86	-19	29	223	29	-01	10	213	78	550		
500	166	-28	46	205 25	172	-15	27	235 02	167	-29	40	227 39	172	-11	17	216 97	167	-28	38	210 45	173	-09	23	224 93	166	-29	37	225 29	173	-08	17	208 92	500		
450	-38	55		160 25	-22	29		232 12	-40	31		226 44	-19	24		220 111	-41			211 43	-19	27		223 102	-43			227 31	-17	27		207 105	450		
400	216	50		123 15	224	33	40	232 20	217	53		222 41	224	29	34	219 129	217	48		213 38	226	29	37	223 116	216	52		228 33	226	28	37	205 119	400		
350	-61		093	10	-43			232 40	-55			229 35	-42			219 136	-50			231 47	-40	47		124 132					-42			209 135	350		
300	277	-62		177 20	288	-54		232 59	278	-59		226 42	288	-57		218 140	(320)	-54		(mb)	290	-56		224 146					280	-57		218 148	300		
250	-61		229	31	-72			232 67	-62			226 45	-75			220 147				224 159	-68			224 118					-72			219 135	250		
200	364	-61		232 32	372	-73		226 27	364	-62		242 56	372	-80		218 113				224 118	375	-73		224 90					374	-82		216 128	200		
170	-63		253	45	-71			227 01	-64				(175)	-74							-72								-77				170		
150	-65		247	38	-72			228 70	-66												(155)	-74											150		
130	-65		236	35	-68			229 54	(140)	-67																							130		
110	-68		233	48	-64			231 34	(mb)																								110		
100	510	-69		234 55	516	-64		231 33																									100		
90	-69		276	73	-65																													90	
80	-70		293	65	-67																													80	
70	-71																																		70
60																																			60
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				600mb. -20°-590mb. -1°								550mb. -08°-				408mb. -50°-				809-788mb. 22°								710mb. 12°-700mb. 13°							
				355° -44°-238° -42°								535° -07°				392° -47°				632-569° 2°								650° 07°-635° 08°							
				Isothermal								Isothermal																							
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RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

February 16th

1950

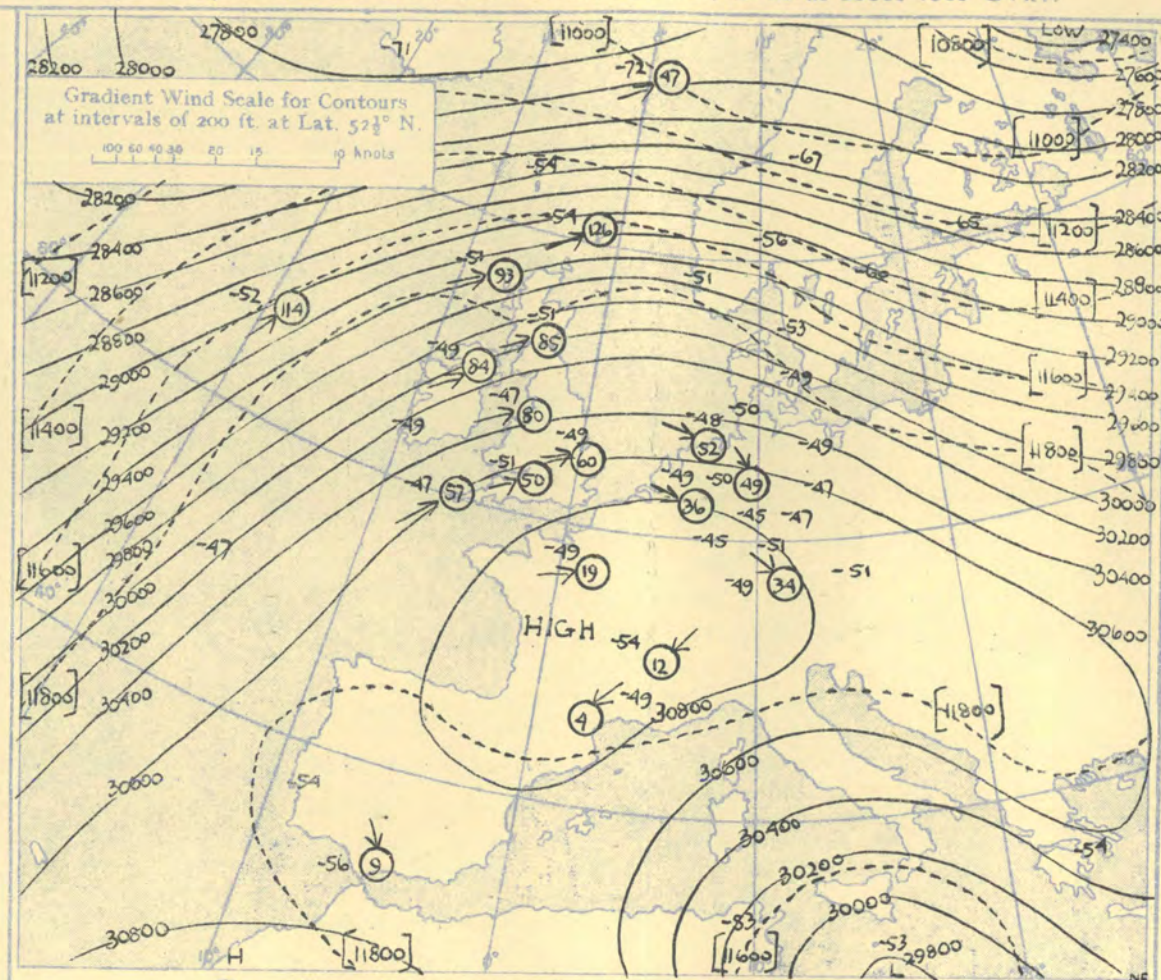
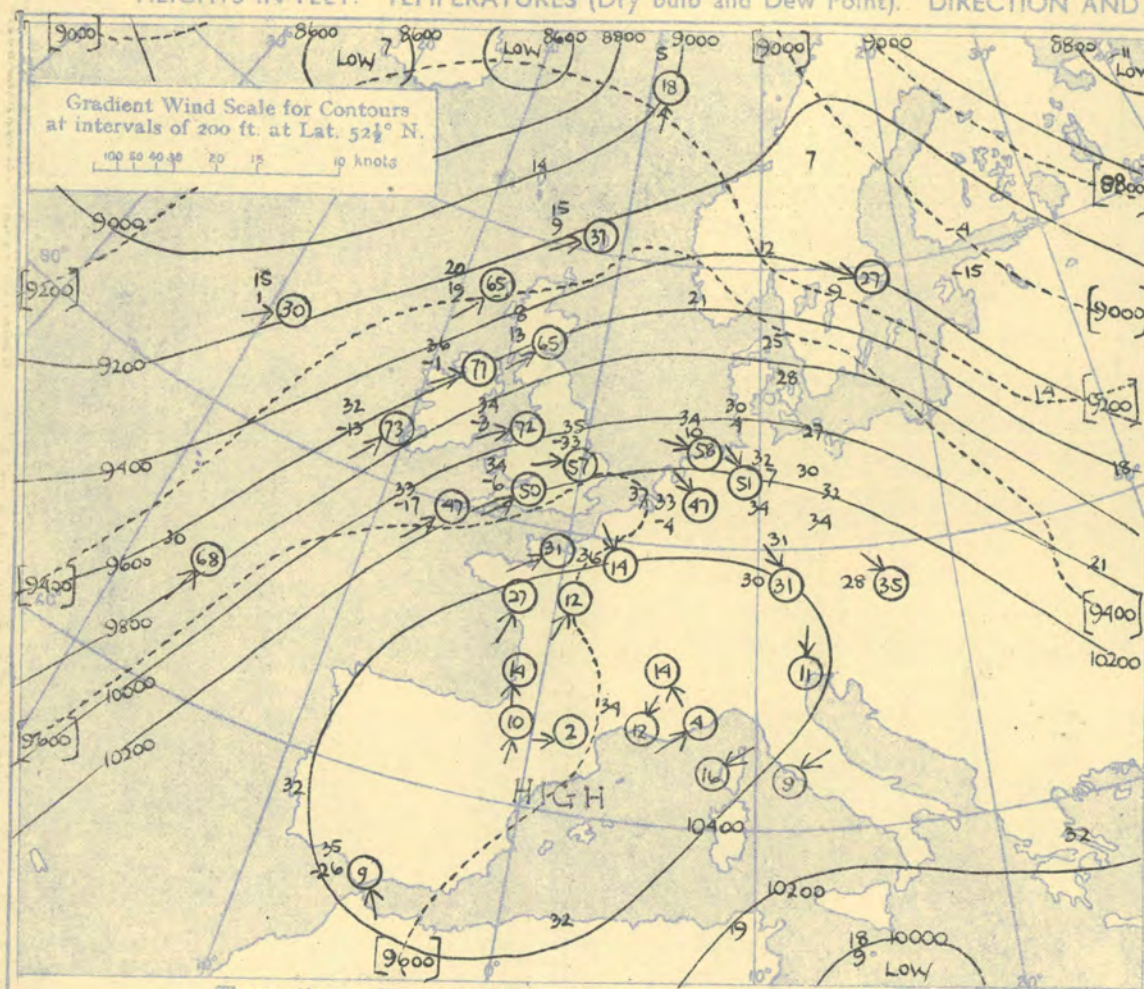
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Time M.S.L. Surf Freezing	Pressure mb	0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		0300		G.M.T.		Time M.S.L. Surf Freezing																		
		996.0		mb		995.0		mb		1001.7		mb		1002.4		mb		1016.8		mb		1015.8		mb		1015.8		mb		1020.3		mb																				
		996.0		mb		995.1		mb		1000.8		mb		993.8		mb		1011.8		mb		1011.8		mb		1003.6		mb		1009.0		mb																				
		882		mb		882		mb		785		mb		735		mb		748		mb		626		mb		626		mb		700		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	01.7	41	40	22.5	1600.3	43	41	200	1200.2	45	44		01.3	52	47	210	25	01.2	50	46	210	26	04.4	43	48	250	07	01.2	51	48	225	30	00.3	53	50	Surf																
1000	01.1				01.3				00.4	45	44		00.6					04.4	43	48	225	36	05.2	50	47	215	48	1.7	53	50				1000																		
950		41	35	24.3	31			40	36	211	27		42	38					46	42	241	46		46	42	234	35		46	43	226	49		46	950																	
900	27.1	34	25	250	30	26	5	34	30	220	27	28	7	37	35			32.9	40	36	248	51	33	7	35	244	46	33	8	40	37	225	49	30	4	44	900															
850		28		14	250	30		28	23	222	28		35	35					35	32	252	48		34	33	251	48		37	22	241	48		35	36	850																
800	57.7	22	13	247	33	57	6	24	23	222	30	55	5	33	33			60.8	38	34	245	67		64	2	24	260	44	65	0	35	13	260	51	65	1	43	5	242	48	61	8	33	25	800							
750		17	06	244	36			19	18	216	41		25	25					33	33	246	68						51		37	4	258	55		40	26	243	51		25	20	750										
700	51.6	10	7	249	34	51	5	14	13	224	46	54	8	25	24			56.0	25	28	247	68					57	101	32	13	258	60	101	32	12	240	57	26	6	26	20	700										
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300	288	62		261	138	291	55		244	125	257	51						301	46		254	87					67	302	52		263	67	304	51		254	46	304	45		244	53	259	50	300							
250		75		167	144			77											62								68		70	273	58		69		255	40		68		247	48		64		250							
200	310	70		170	148	373	89											386	51								69		71	58		72		267	55		70		256	48		65		248	47	200						
170		80		164	81			80											90									70		78	64		101		267	55		78		250	57		76		247	51		74		248	40	170
150		74						75											75									70		77	67		103		262	55		78		247	51		76		247	51		74		248	40	150
130		78						82											79									70		81	77		103		264	56		79		248	40		77		248	40		76		248	40	130
110		81						82											81									70		81	77		103		264	56		79		248	40		77		248	40		76		248	40	110
100	512	77						83											82									70		81	77		103		264	56		79		248	40		77		248	40		76		248	40	100
90		76						83											81									70		81	77		103		264	56		79		248	40		77		248	40		76		248	40	90
80		76						83											81									70		81	77		103		264	56		79		248	40		77		248	40		76		248	40	80
70		76						83											81									70		81	77		103		264	56		79		248	40		77		248	40		76		248	40	70
60		76						83											81									70		81	77		103		264	56		79		248	40		77		248	40		76		248	40	60
		Inversion 986 m. 42°-56° m. 43°				Inversion 606 m. 42°-600 m. 5°				Isothermal 1001-570 m. 45°				Isothermal 825-810 m. 35°								Inversion 857 m. 34°-831 m. 40° Isothermal 725-715 m. 30°								Inversion 841 m. 36°-812 m. 45° Isothermal 812-763 m. 45°				Isothermal 750-735 m. 25°																		
Tropopause		11245 m. -81° 34800'				11218 m. -85° 35600'				NR				1155 m. -94° 43500'								1148 m. -106° 44000'				NR				1170 m. -98° 42200'				1182 m. -98° 40400'				Tropopause														
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE								STATION														
Time M.S.L. Surf Freezing	Pressure mb	0900		G.M.T.		0900		G.M.T.				G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		0900		G.M.T.		Time M.S.L. Surf Freezing																		
		995.9		mb		995.2		mb				mb		1004.5		mb		1013.6		mb		1015.1		mb		1022.5		mb		1021.4		mb																				
		995.9		mb		995.1		mb				mb		995.8		mb		1011.6		mb		1014.4		mb		1006.3		mb		1010.7		mb																				
		900		mb		850		mb				mb		770		mb		700		mb		700		mb		685		mb		692		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	01.7	41	39	19.1	1800.3	43	42	220	07				01.3	52	48	210	25	01.2	51	48	200	14	04.4	50	46	270	19	02.9	51	47	203	20				Surf																
1000		37	34	20.2	27			41	39	220	22			01.0				05.7	51	46	227	33	05.1	49	43	227	33	05.8	50	46	218	43				1000																
950	26.9	32	30	20.3	23	26	3	36	38	238	26				47	43	220	50		43	225	35		44	41	235	43		45	42	220	44				950																
900		28	26	21.3	26			32	31	247	31				25	7	42	38	232	60	32	243	39	241	46	33	5	35	32	254	52	34	4	35	34	241	46	34	2	39	38	231	46	900								
850		28	26	21.3	26			32	31	247	31				31	33	244	61		37	32	250	46		32	22	257	53		34	31	246	45		33	33	235	48		33	33	235	48	850								
800	57.3	24	23	22.6	28	57	8	27	16	243	34				61	2	35	31	246	62	35	34	27	258	45	65	5	43	10	251	46	65	6	45	00	237	51				800											
750		20	15	23.3	31			23	10	249	40				30	24																																				

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

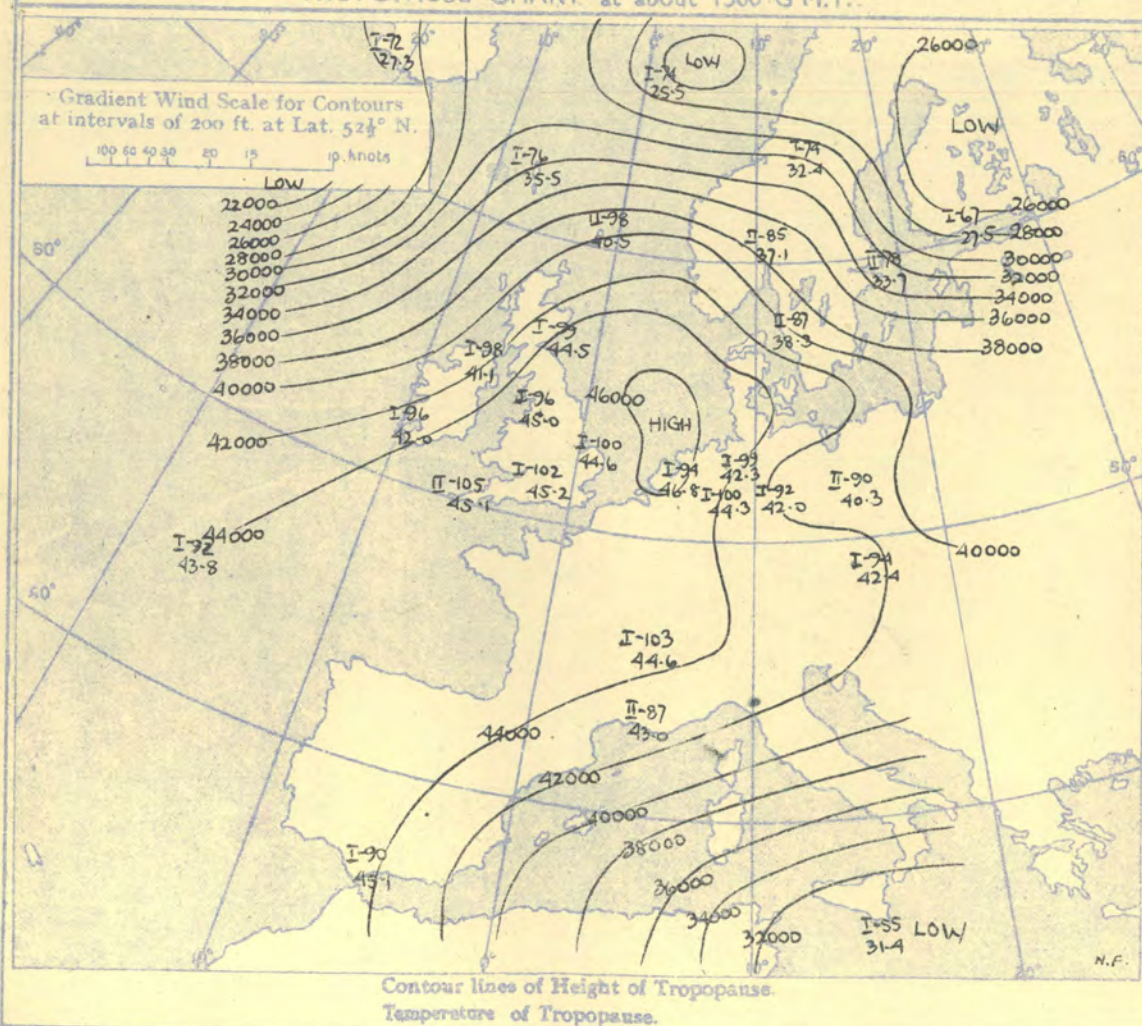
16th February 1950

STATION	LERWICK	STORNOWAY	LEUCHARS	ALDERGROVE	LIVERPOOL	DOWNHAM MARKET	LARKHILL	CAMBORNE	Valentia	STATION
Time	1500	1500	1500	1500	1500	1500	1500	1500	1500	Time
M.S.L.	556.8	557.7	1003.1	1007.0	1013.6	1021.2	1024.4	1023.1	1009.2	M.S.L.
Surf	556.5	555.8	1002.3	998.5	1013.6	1016.7	1008.1	1012.3	1008	Surf
Freezing	830	872	712	675	686	680	680	698	700	Freezing
Pressure	Height	Height	Height	Height	Height	Height	Height	Height	Height	Pressure
mb	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	mb
Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.
°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.
Dew	Dew	Dew	Dew	Dew	Dew	Dew	Dew	Dew	Dew	Dew
°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.
Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind
Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.
* knots	* knots	* knots	* knots	* knots	* knots	* knots	* knots	* knots	* knots	* knots
Surf	02.144.41.24	1300.347.46.20	1300.354.72.10	4023.453.43	00.655.44.21.3	40.01.25.44.21.0	20.04.45.14.6.26.0	23.02.55.35.0.18.0	13.00.35.34.3.17.0	Surf
1000	0.5	0.6	0.08	0.19	04.253.42.21.8	45.08.52.43.21.9	37.65.50.45.22.6	36.06.25.14.7.19.7	42.2.35.2.48.17.1	1000
950	35.35.25.0	32.41.33.22.0	28.59.44.23.3	59.51.44	47.40.23.3	51.46.40.23.7	42.44.40.22.3	36.43.40.20.8	42.46.49.18.8	950
900	27.35.35.26.1	30.27.6.33.02.23	28.29.54.64.2.44	66.30.7.43.38	32.84.0.36.23.4	58.34.2.40.26.24.3	47.34.3.38.35.24.0	43.34.6.40.31.21.6	48.31.1.40.40.25.5	900
850	34.27.24.7	29.30.27.21.9	28.44.35.25.3	63.37.33	36.35.23.8	67.40.21.25.1	53.50.35.24.5	47.50.16.23.2	52.38.26.21.4	850
800	58.42.5.21.24.2	25.58.5.26.23.22.1	38.61.2.38.31.25.5	57.61.0.32.28	64.24.3.15.24.6	55.65.9.50.18.23.7	54.66.7.46.14.24.6	45.66.3.42.06.22.8	50.61.7.36.25.22.3	800
750	23.17.23.5	32.24.23.22.5	54.32.2.25.1	57.41.10	41.10.24.7	66.43.16.23.9	53.40.12.24.4	47.40.4.22.4	46.38.62.22.2	750
700	52.7.15.11.24.5	37.33.0.26.19.22.6	63.36.4.31.13.24.6	63.36.5.36.1	39.8.34.3.25.0	72.10.2.35.23.56	57.10.2.34.6.24.1	50.10.2.33.17.22.2	47.95.0.32.13.22.2	700
650	12.04.25.0	57.16.16.23.4	73.25.08.24.6	73.28.18	27.07.24.8	71.27.32.25.5	59.28.11.23.7	50.25.22.22.0	47.25.21.22.1	650
600	131.06.01.25.1	72.13.2.10.09.23.6	76.13.6.17.04.24.9	81.13.7.20.24	140.20.13.25.0	66.14.2.18.40.25.2	57.14.2.20.18.23.7	46.14.2.18.18.22.0	45.13.8.17.21.21.8	600
550	00.2.25.3	76.06.03.23.9	85.09.6.25.3	89.10.34	10.2.24.8	66.10.2.24.8	59.09.49.25.1	57.11.25.23.5	44.10.35.22.0	550
500	176.7.12.25.4	88.17.5.9.23.5	91.18.2.01.11.25.4	79.18.2.00.33	186.01.30.24.7	70.18.7.01.54.24.7	55.18.8.02.34.23.8	50.18.7.01.42.22.0	42.18.3.1.44	500
450	15.21.25.4	106.14.20.23.6	91.9.13.24.9	78.9.31	8.38.24.5	74.8.50.24.9	50.8.42.23.7	42.8.50.22.0	43.9.53	450
400	22.5.26.34.25.9	112.230.25.31.23.7	95.23.6.21.31.24.6	89.23.6.22.34	239.15.48.24.3	74.24.1.22.58.25.2	51.24.2.19.53.24.0	44.24.1.20.60.22.0	48.23.7.21.54	400
350	33.46.15.6	116.38.44.24.1	108.26.44.24.7	85.26.45	32.55.24.4	71.36.25.3	59.34.60.24.1	48.34.55.22.0	57.33	350
300	253.84	257.126.29.5.51	248.53.300.51	301.49	305.47	248.80.306.49	259.60.307.47	245.50.306.47	221.57.302.49	300
250	71.26.112	64	66	67	61.24.6	63.26.6	60.63	49.66	221.52.6	250
200	371.52	260.109	385.57	386.83	390.79	245.57.390.86	264.58.392.83	241.49.391.86	221.58.387.85	200
170	54.26.2	102	53	58	91	93.26.9	54.94.24.1	53.97.22.1	50.96	170
150	84.26.3	26 Inversion	53	80	95	93.26.7	48.101.24.0	47.105.22.2	54.82	150
130	87	552ms8°-586ms9°	87	75	87	86.25.7	46.88.24.9	45.100.22.2	43.81	130
110	(142)	523.75	86	75	87	79.25.9	42.79.25.4	48.90.22.2	41.81	110
100	Inversion	180ms8°-210ms26°	70	74	75	77.26.1	47.78.25.4	38.86.21.9	39.76	100
90	340ms8°-520ms40°	180ms8°-210ms26°	70	74	75	77.26.1	47.78.25.4	38.86.21.9	39.76	90
80		180ms8°-210ms26°	70	74	75	77.26.1	47.78.25.4	38.86.21.9	39.76	80
70		180ms8°-210ms26°	70	74	75	77.26.1	47.78.25.4	38.86.21.9	39.76	70
60		180ms8°-210ms26°	70	74	75	77.26.1	47.78.25.4	38.86.21.9	39.76	60
Tropopause	1175ms-58° 40500'	M2	1158ms-55° 44500'	1177ms-58° 41100'	1154ms-56° 45000'	1148ms-100° 44600'	1150ms-102° 45200'	1150ms-105° 45100'	1170ms-56° 42000'	Tropopause
STATION	LERWICK	STORNOWAY	LEUCHARS	ALDERGROVE	LIVERPOOL	DOWNHAM MARKET	LARKHILL	CAMBORNE		STATION
Time	2100	2100	G.M.T.	2100	G.M.T.	2100	G.M.T.	2100	G.M.T.	Time
M.S.L.	986.4	984.8	mb	1007.7	mb	1023.0	mb	1023.3	mb	M.S.L.
Surf	986.4	983.0	mb	999.1	mb	1018.3	mb	1008.0	mb	Surf
Freezing	812	800	mb	705	mb	701	mb	737	mb	Freezing
Pressure	Height	Height	Height	Height	Height	Height	Height	Height	Height	Pressure
mb	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	ft./100	mb
Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.
°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.
Dew	Dew	Dew	Dew	Dew	Dew	Dew	Dew	Dew	Dew	Dew
°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.
Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind
Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.	Dir. Vel.
* knots	* knots	* knots	* knots	* knots	* knots	* knots	* knots	* knots	* knots	* knots
Surf	02.743.43	00.543.43.28.0	05	23.452.44.21.0	30	01.248.42.18.0	10.04.44.44.3	21.01.25.50.46.18.0	15	Surf
1000	0.0	0.14	0.1	02.1	0.1	06.147.44.21.3	21.67.46.44.20.5	24.06.15.14.51.56	46	1000
950	41.41	40.37.26	22	46.21.0	48	42.35.23.2	40.46.37.22.4	36.45.36.10.7	44	950
900	27.23.35.35	26.83.37.37.23.7	22	30.641	22.7	34.44.32.24.9	52.35.3.48.23.21.1	45.34.8.47.23.21.1	50	900
850	32.32	35.35.22.8	45	37.23.8	66	45.24.24.9	54.46.18.23.6	48.45.19.21.2	53	850
800	58.23.1.81	58.03.2.32.22.4	66	62.036	23.9	66.345.13.24.3	51.66.9.28.13.23.8	45.66.4.40.17.21.2	51	800
750	27.27	28.28.22.7	76	36.24.0	59	39.00.23.7	48.31.07.23.0	42.34.09.21.2	44	750
700	52.5	22.22	83	37.23.5	77	102.32.7.23.5	48.10.27.2.22.3	42.10.2.29.0.21.2	35	700
650	16.15	17.17.23.4	88	26.23.5	83	24.12.23.6	47.24.11.22.0	47.24.5.21.2	38	650
600	132.11.09	132.11.1.23.1	83	137.17	87	14.16.18.23.5	43.14.2.18.17.22.3	50.14.1.18.12.21.2	40	600
550	03.01	03.02.23.4	89	10.23.4	82	10.22.23.1	35.08.24.22.5	53.07.20.21.0	44	550
500	177.4.8	177.5.6.23.0	106	183.01	22.5	187.01.31.23.2	38.167.03.29.23.0	56.187.1.30.21.1	47	500
450	14.13	14.17.23.2	103	8.23.6	85	9.40.24.1	41.9.40.23.3	54.11.40.21.2	50	450
400	230.25.30	230.25.28.23.6	98	236.23	23.0	241.23.53.25.0	47.241.22.54.23.3	47.240.22.50.21.3	58	400
350	40.46	38.43	97	35.23.0	77	37.60.24.3	49.37.67.22.5	49.36.50.21.8	48	350
300	294.58	294.54	97	301.53	24.1	305.52	241.58.305.53	228.44.305.53	221.48	300
250	71	72	97	78	78	70.24.5	59.69.23.0	40.69.23.0	44	250
200	371.54	378.83	97	385.84	78	380.86	242.57.390.86	37.385.86	219.41	200
170	89	78	97	87	87	96.24.4	57.97.23.3	40.96.21.9	45	170
150	85	81	97	100	100	101.24.8	51.103.22.7	42.103.22.1	45	150
130	85	77	97	86	86	87.24.7	42.83.24.5	43.88.21.9	41	130
110			97	86	86	85.25.9	46.82.25.4	41.85.23.6	42	110
100			97	86	86	52.68.7	25.644.52.7	42.52.8.4	23.9	100
90			97	86	86	Inversion	Inversion	Inversion	47	90
80			97	86	86	527ms40°-866ms50°	1009ms44°-550ms47°	1012ms50°-587ms51°	47	80
70			97	86	86		515ms45°-500ms48°		47	70
60			97	86	86		510ms1°-500ms3°		47	60
Tropopause	1295ms-94° 37100'	1195ms-86° 52400'		1150ms-100° 44500'		1153ms-102° 44400'	1150ms-102° 45000'	1150ms-108° 44800'		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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

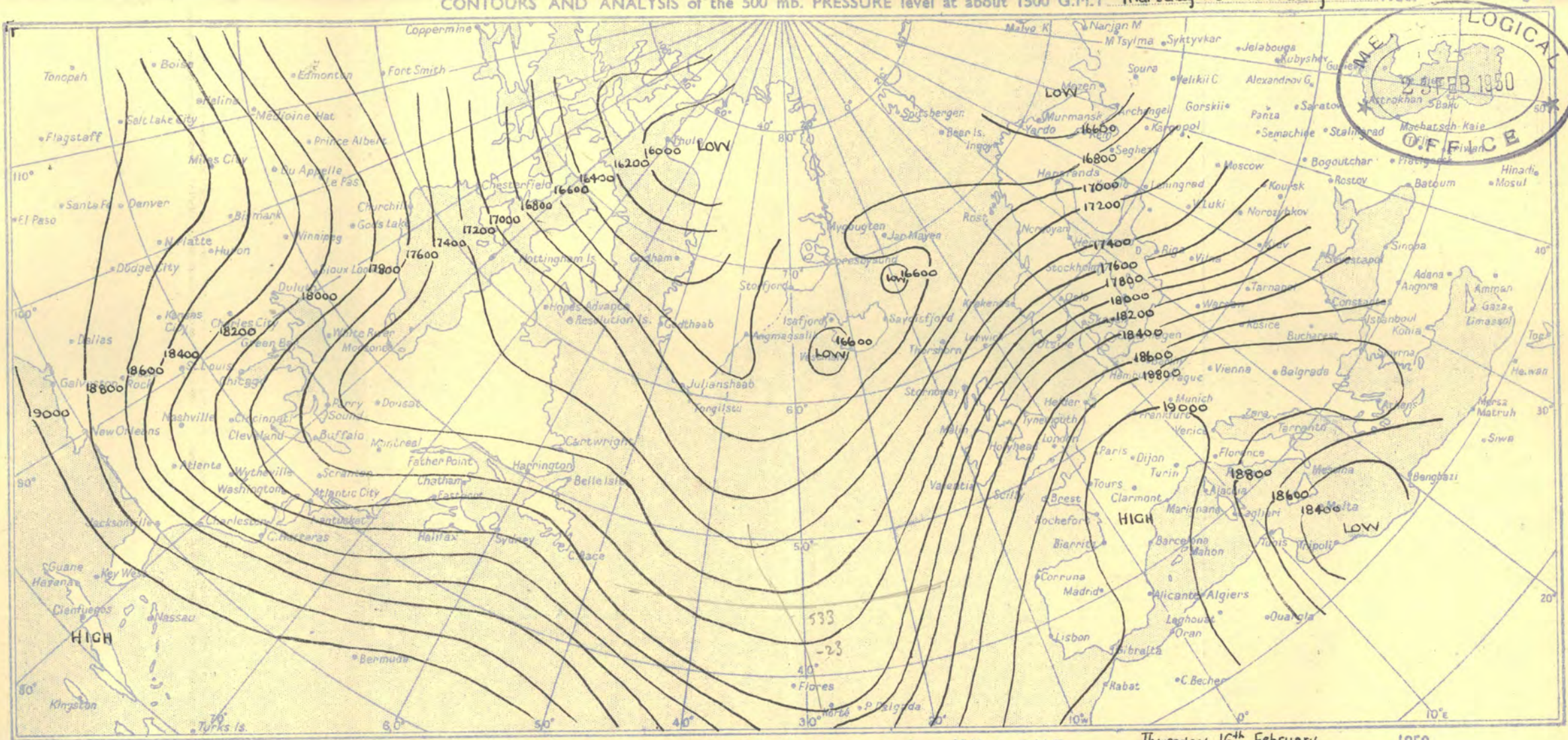


NOTES ON THE AEROLOGICAL SITUATION.

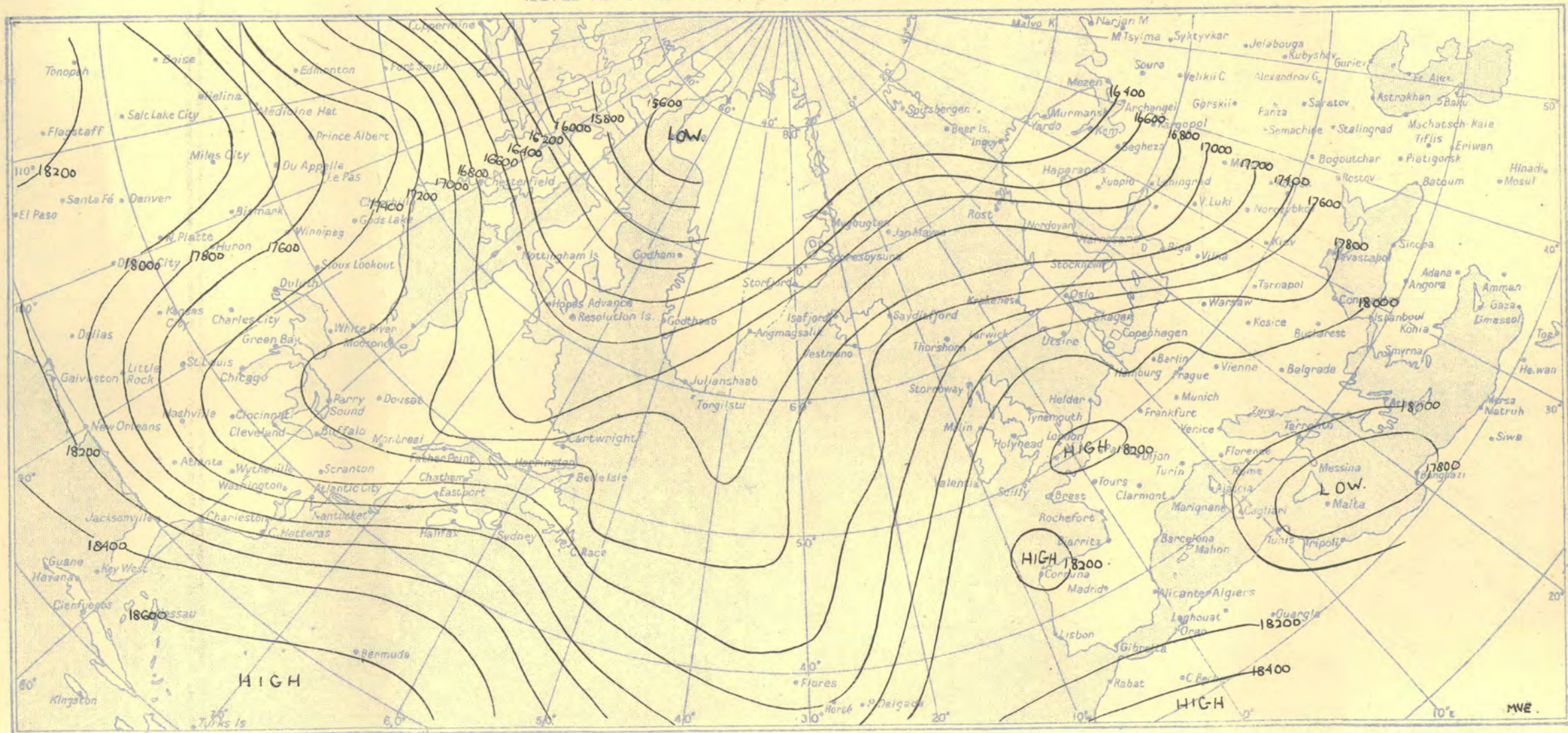
The cold trough moved slowly eastwards and weakened with a flat warm ridge entering the West Atlantic. The cold pool in the Central Mediterranean warmed up slightly.

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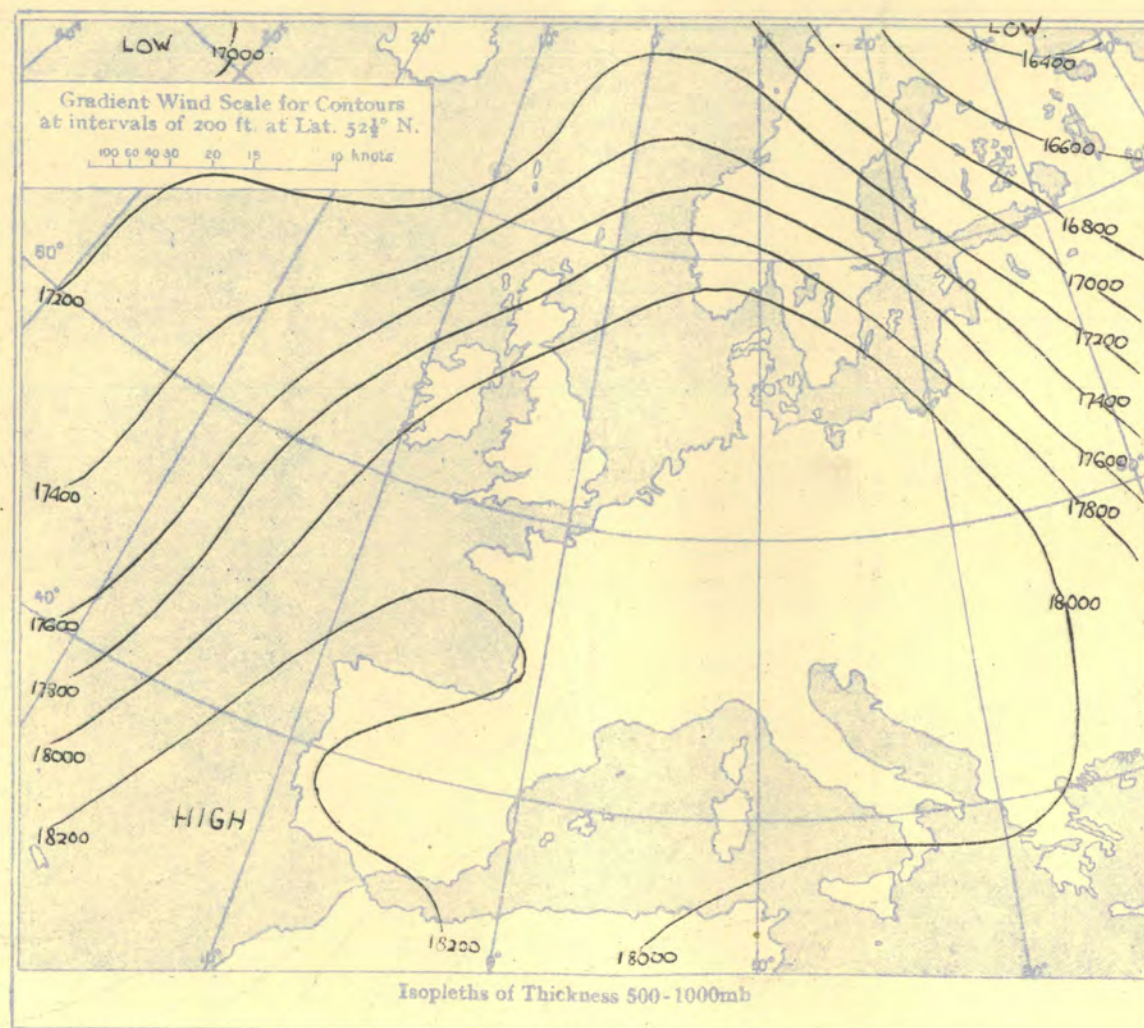
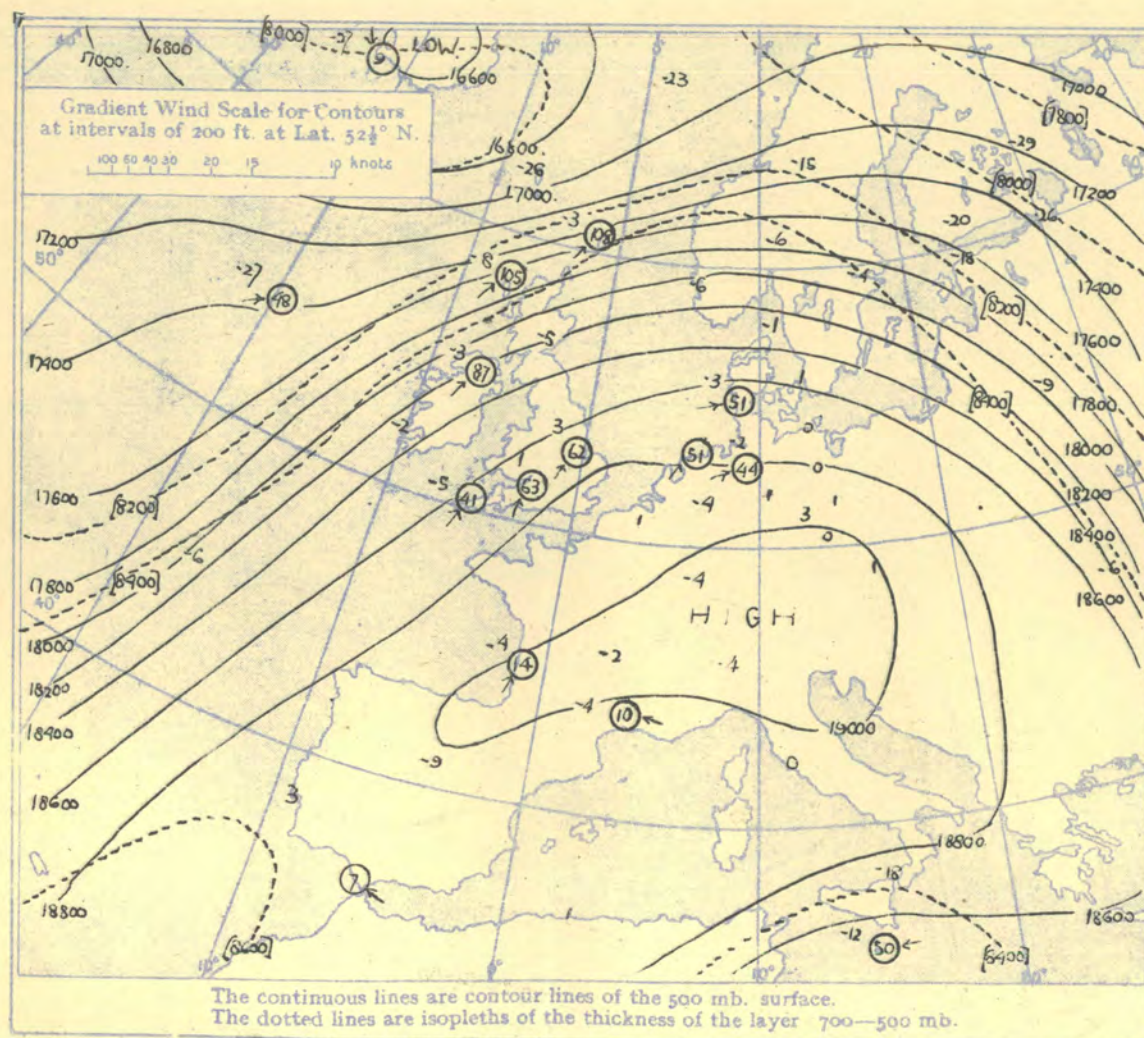
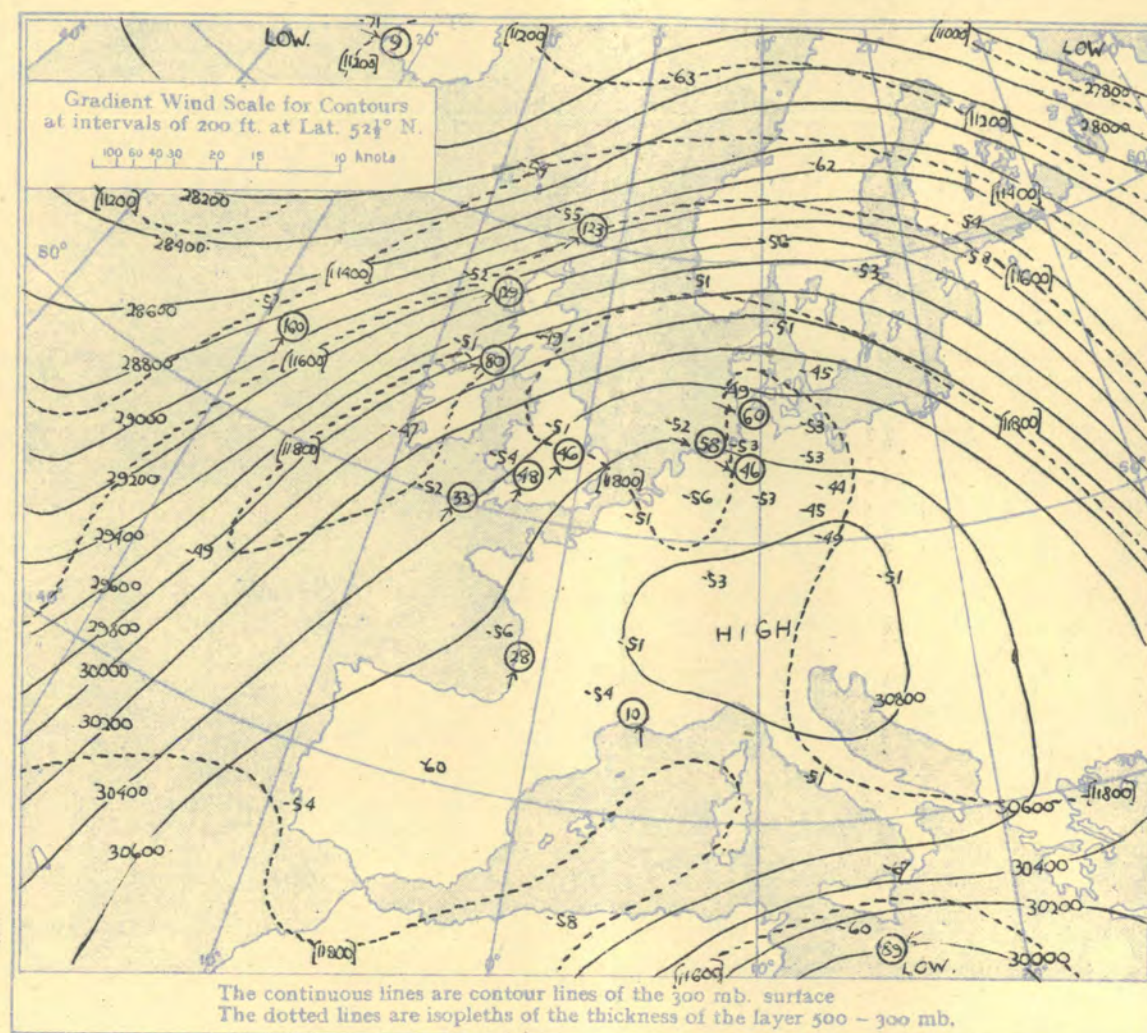
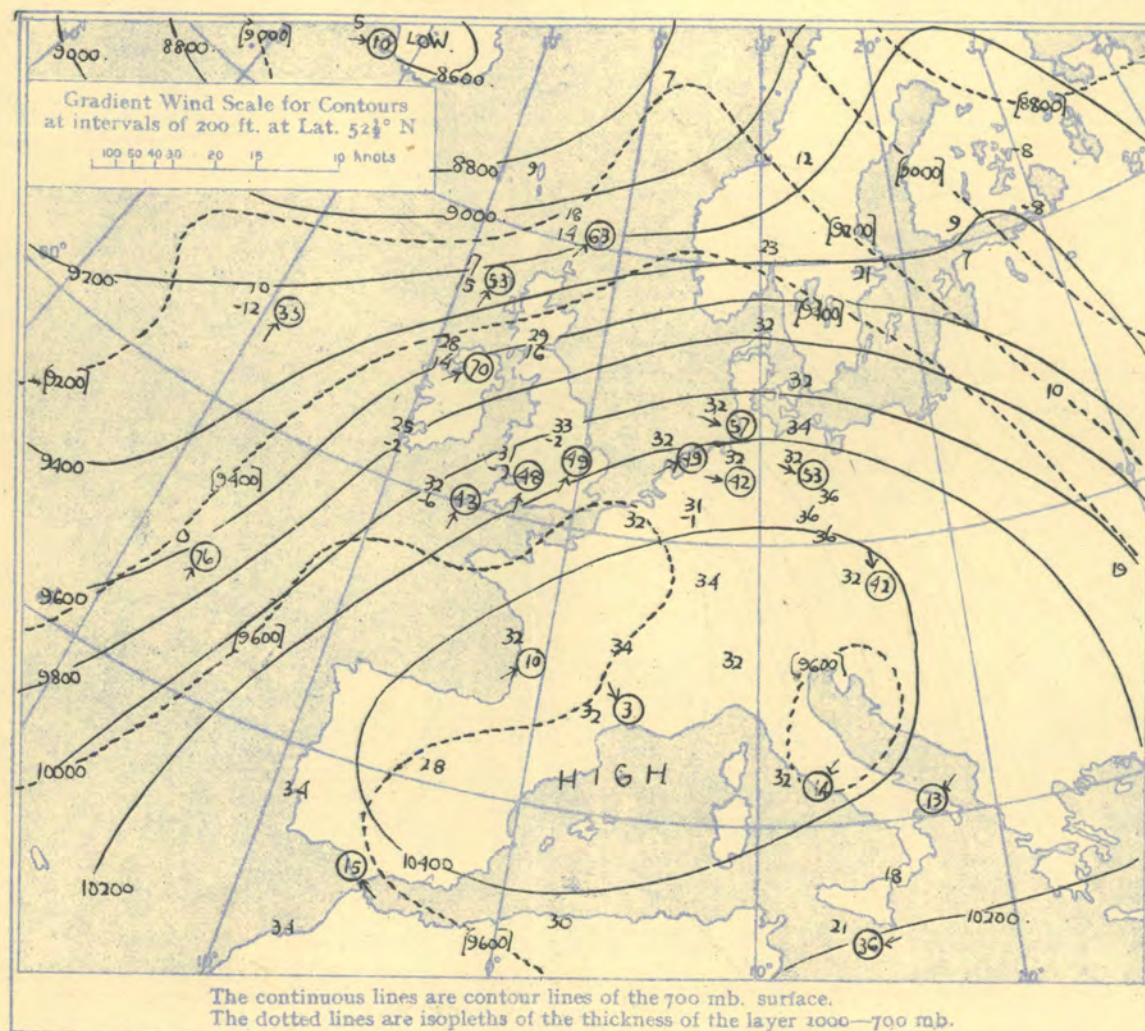
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Thursday 16th February 1950.



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 0300 G.M.T.



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

[illegible]

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]

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

Friday 17th February 1950

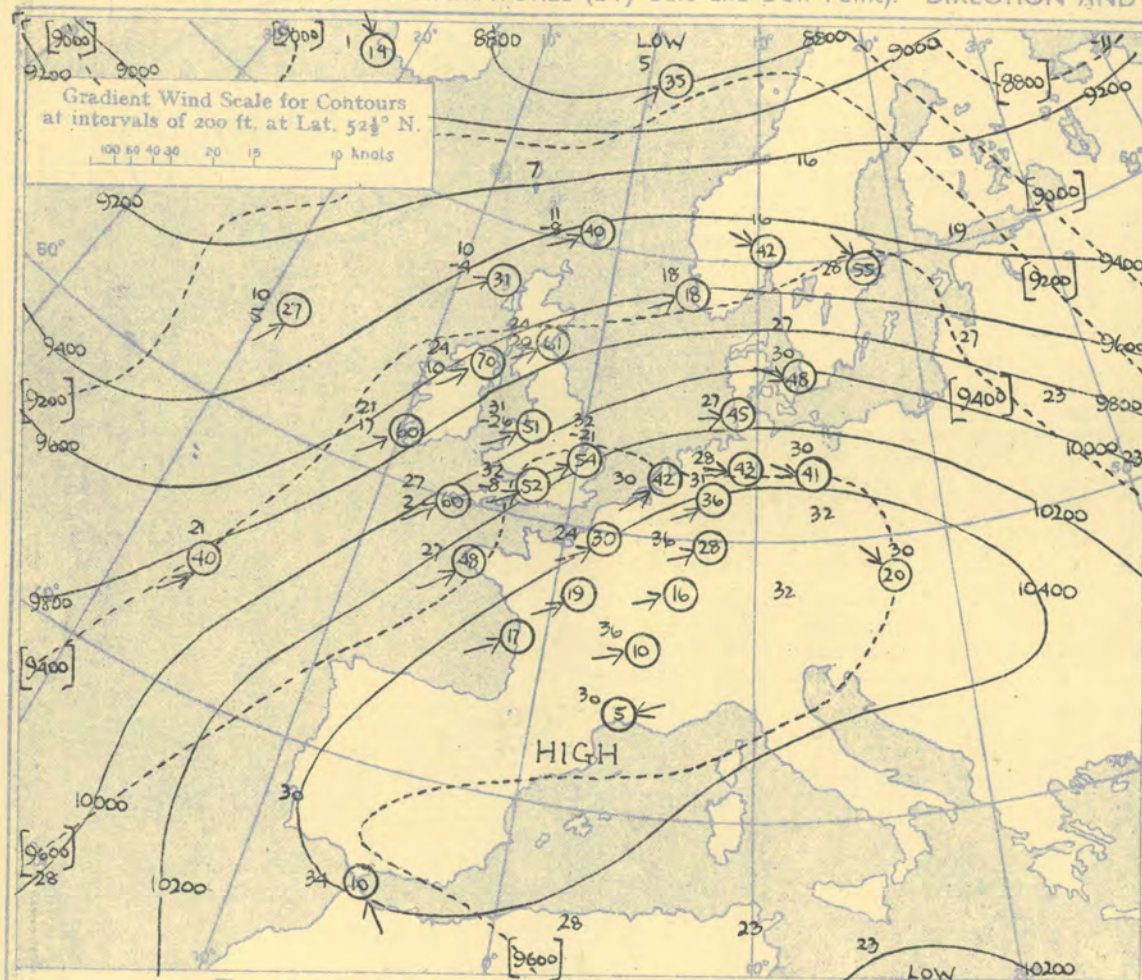
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION
Pressure	Time	0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		Time				
	M.S.L.	946.2		mb		949.9		mb		1006.0		mb		1001.4		mb		1017.3		mb		1023.6		mb		1024.4		mb		1021.6		mb		M.S.L.				
	Surf	986.2		mb		998.1		mb		1005.2		mb		1000.2		mb		1017.9		mb		1017.9		mb		1017.9		mb		1010.9		mb		Surf				
Freezing	Pressure	850		mb		843		mb		727		mb		750		mb		688		mb		688		mb		738		mb		705		mb		Freezing				
	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.		Pressure				
mb	Temp.	°F.		°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.		Dir. Vel.		Dir. Vel.		Dir. Vel.		Dir. Vel.		Dir. Vel.		Dir. Vel.		Dir. Vel.		Wind						
knots	Dir.	knots		knots		knots		knots		knots		knots		knots		knots		knots		knots		knots		knots		knots		knots		knots		knots						
	Vel.	knots		knots		knots		knots		knots		knots		knots		knots		knots		knots		knots		knots		knots		knots		knots		Vel.						
Surf	1000	02.7	42	41	248	16	00.5	43	43	220	10	00.2	52	46	02.3	51	48	220	20	01.2	47	41	190	14	4.4	45	41	220	07	02.9	49	47	180	15	00.3	49	48	Surf
	950	1.0	39	38	263	30	0.5	41	38	237	27	1.6	51	45	2.6	47	44	228	40	06.0	48	40	218	30	6.4	45	41	208	25	05.8	48	44	200	43	32	48	47	1000
900	850	27.1	35	33	266	31	28.2	36	33	240	27	30.1	40	39	31.2	43	41	232	48	34.8	50	26	236	55	35.0	46	28	220	39	34.3	44	26	217	58	317	45	43	950
	800	58.0	27	23	255	36	59.1	26	27	248	30	61.8	38	33	62.6	35	29	243	60	66.5	43	16	233	52	66.6	40	11	220	42	65.9	41	09	220	51	631	35	32	850
750	700	23	19	249	50	20	18	241	35	34	25	34	25	32	32	23	244	68	37	37	37	237	49	33	04	220	44	37	22	222	46	30	26	750				
	650	92.3	18	14	247	63	93.4	17	15	234	53	96.7	29	16	97.6	28	14	245	70	102	33	2	237	49	102	31	2	219	48	101	32	6	225	43	980	25	2	700
600	550	131	06	04	244	83	132	04	04	232	72	136	13	08	137	14	02	237	76	142	15	15	232	57	141	12	22	221	46	141	16	17	225	40	1375	14	18	650
	500	03	06	244	100	00	09	336	90	04	10	04	10	237	87	06	08	230	87	08	19	231	64	07	26	213	53	06	24	232	42	6	12	6	12	550		
450	400	176	03	12	244	108	177	08	13	237	105	181	08	14	183	03	17	230	87	187	03	26	234	64	187	01	33	207	63	186	5	35	238	41	1829	2	11	500
	350	14	22	238	114	14	21	232	110	13	24	13	24	233	84	10	24	233	84	241	03	43	236	54	240	25	56	210	44	239	24	53	229	42	2361	22	33	450
300	250	229	25	32	238	114	230	25	32	234	107	235	22	34	236	22	33	235	85	36	23	53	237	55	240	25	56	210	44	239	24	53	229	42	2361	22	33	400
	200	293	25	46	244	120	297	27	45	236	116	298	22	48	236	22	45	232	80	36	59	222	48	38	60	215	48	37	60	222	34	31	46	350				
150	130	293	25	46	244	120	297	27	45	236	116	298	22	48	236	22	45	232	80	36	59	222	48	38	60	215	48	37	60	222	34	31	46	300				
	110	293	25	46	244	120	297	27	45	236	116	298	22	48	236	22	45	232	80	36	59	222	48	38	60	215	48	37	60	222	34	31	46	250				
100	90	293	25	46	244	120	297	27	45	236	116	298	22	48	236	22	45	232	80	36	59	222	48	38	60	215	48	37	60	222	34	31	46	200				
	80	293	25	46	244	120	297	27	45	236	116	298	22	48	236	22	45	232	80	36	59	222	48	38	60	215	48	37	60	222	34	31	46	170				
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	50	293	25	46	244	120	297	27	45	236	116	298	22	48	236	22	45	232	80	36	59	222	48	38	60	215	48	37	60	222	34	31	46	130				
40	30	293	25	46	244	120	297	27	45	236	116	298	22	48	236	22	45	232	80	36	59	222	48	38	60	215	48	37	60	222	34	31	46	110				
	20	293	25	46	244	120	297	27	45	236	116	298	22	48	236	22	45	232	80	36	59	222	48	38	60	215	48	37	60	222	34	31	46	90				
10	0	293	25	46	244	120	297	27	45	236	116	298	22	48	236	22	45	232	80	36	59	222	48	38	60	215	48	37	60	222	34	31	46	70				
	0	293	25	46	244	120	297	27	45	236	116	298	22	48	236	22	45	232	80	36	59	222	48	38	60	215	48	37	60	222	34	31	46	60				
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0	0	293	25	46	244	120	297	27	45	236	116	298	22	48	236	22	45	232	80	36	59	222	48	38	60	215	48	37	60	222	34	31	46	0				
	0	293	25	46	244	120	297	27	45	236	116	298	22	48	236	22	45	232	80	36	59	222	48	38	60	215	48	37	60	222	34	31	46	0				
0	0	293	25	46	244	120	297	27	45	236	116	298	22	48	236	22	45	232	80																			

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

17th February 1950

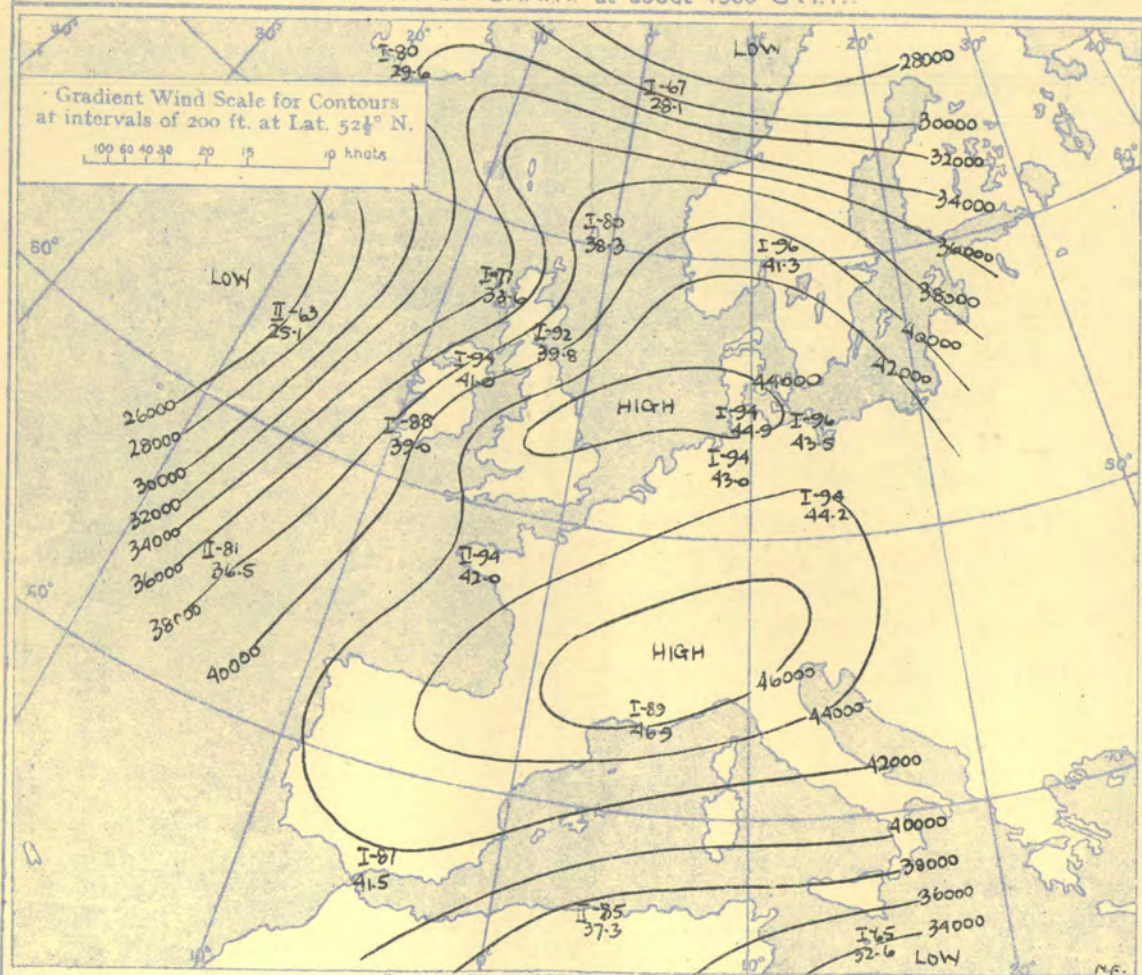
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				Valentia				STATION
Time	1500				1500				1500				1500				1500				1500				1500				1500				1500				Time
M.S.L.	1006.1				1007.1				1009.4				1008.5				1016.6				1021.8				1022.8				1022.4				1009.5				M.S.L.
Surf	596.0				1005.3				1006.6				1000.4				1014.6				1017.7				1006.8				1015.8				1009.5				Surf
Freezing	868				900				731				766				710				706				699				730				730				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
Dir.	°				°				°				°				°				°				°				°				°				Dir.
Vel.	knots				knots				knots				knots				knots				knots				knots				knots				knots				Vel.
Surf	02.7 44 35 247				00.3 47 43 200				00.2 47 46				02.3 55 50 188				00.6 59 45 200				01.2 58 46 210				04.4 57 48 220				02.3 54 50 188				02.3 54 50 188				Surf
1000	01.6				02.0 46 42				02.7 46 44				02.4				04.3 57 43 207				05.8 56 43 226				07.6 56 47 214				05.7 52 46				05.7 52 46				1000
950	33 30 252				38 34 224				43 40				48 44 208				51 40 313				53 33 231				56 30 220				48 43 218				48 43 218				950
900	29.7 33 27 256				30.1 32 28 235				16 31 040 37				31.0 41 38 215				33.3 43 35 216				34.5 46 28 241				35.0 45 41 215				34.3 51 35 228				51 30.5 43 42				900
850	30 04 260				28 24 237				23 38 35				38 35 228				36 30 226				51 04 245				47 28 240				48 18 215				55 38 33				850
800	60.3 25 -6 261				35 60.8 23 19 241				27 62.3 33 30				62.4 35 33 235				59 64.6 31 27 235				48 66.4 45 13 246				51 66.9 46 07 243				50 66.1 42 13 227				57 61.5 34 33				800
750	16 -15 254				33 17 09 240				28 28 25				30 22 236				35 17 245				52 37 -18 247				54 39 05 241				35 07 226				55 28 27				750
700	34.4 11 -8 252				40 34.7 10 42 49				31 37 02 42				37 34 10 236				70 39 6 31 26 240				51 102 32 -4 246				54 102 32 -4 237				52 101 27 02 226				60 96.7 21 17				700
650	03.4 2 253				47 02 -12 253				34 18 14				16 09 231				74 23 -38 240				59 23 -26 243				53 25 -14 233				50 15 -4 226				61 19 12				650
600	132.5 -14 251				54 133 -2 -10 250				45 136 11 06				136 08 02 229				73 135 15 44 239				63 141 14 -31 236				53 142 17 -22 225				47 141 11 -7 222				55 136 12 01				600
550	-6 -13 248				72 -6 -13 231				64 04 -3				03 -3 224				72 05 -51 236				67 05 -44 234				57 08 -31 225				51 03 -15 222				05 -3				550
500	177 -12 -17 242				53 177 -11 -18 226				83 181 -6 73				181 -6 -12 229				73 184 -6 -42 234				67 187 -7 -50 237				53 188 -1 -40 225				52 186 -6 -25 223				62 181 -4 -11				500
450	20 -23 242				104 -21 -23 224				31 -17 -28				15 -23 230				70 -13 -43 227				73 -15 -60 234				52 -11 -48 228				54 -16 -31 214				50 -12 -22				450
400	229 -31 -36 240				96 229 -33 -41 237				101 234 -26 40				234 -27 -35 228				74 237 -23 -54 235				67 235 -20 -57 235				48 241 -23 -55 231				54 239 -25 -41 221				52 235 -22 -34				400
350	-44 243				118 -45 228				110 -39 52				83 -40 -47 228				71 -33 -56 228				71 -40 -60 238				49 -33 -60 230				50 -40 -52 218				63 -35 -47				350
300	293 -56 247				142 293 -60 232				138 298 -54				298 -56 229				303 46 234				71 303 -55 235				50 306 49 230				47 303 -52 220				59 299 -51				300
250	-70 245				143 -73																																

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 1500 G.M.T.

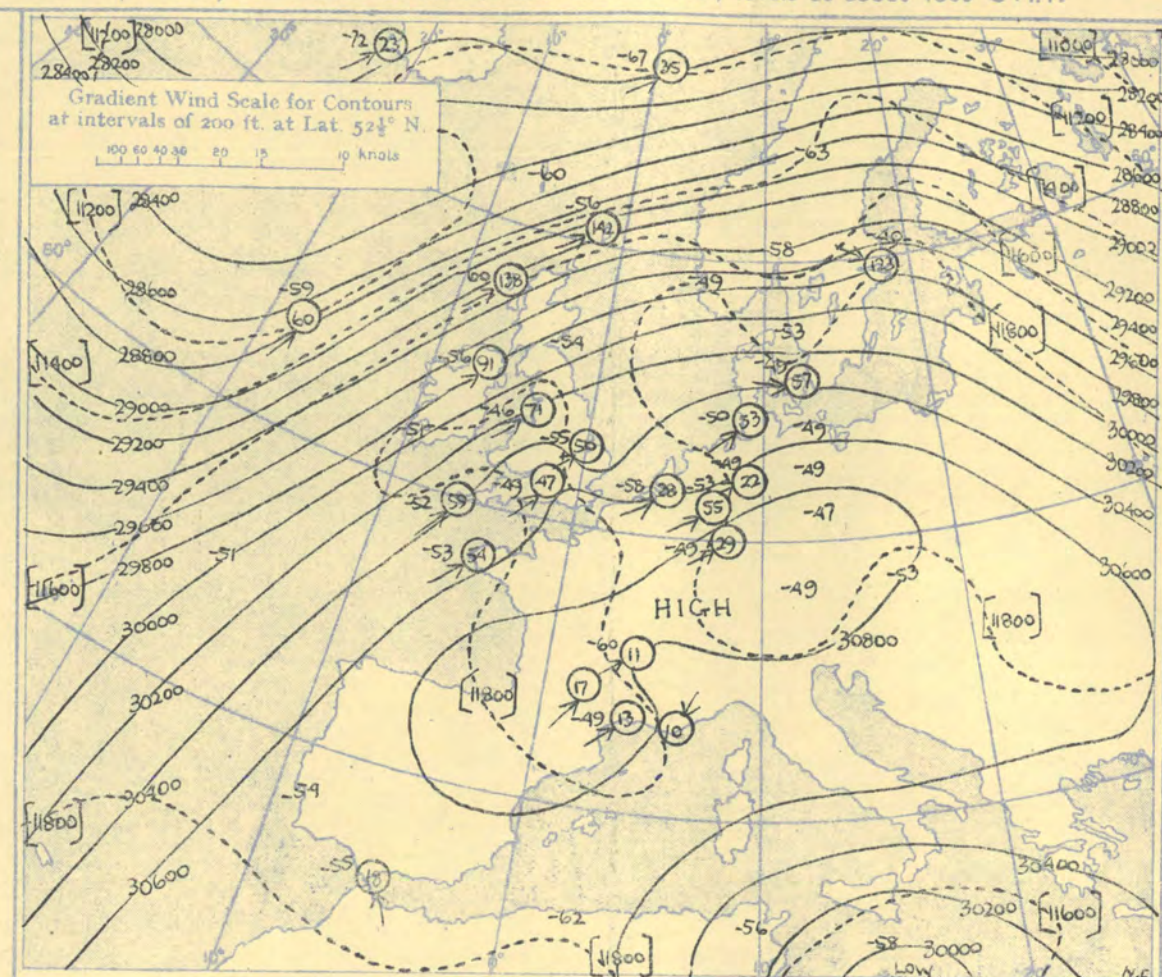


The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000-700 mb.

TROPOPAUSE CHART at about 1500 G.M.T.



Contour lines of Height of Tropopause.
Temperature of Tropopause.



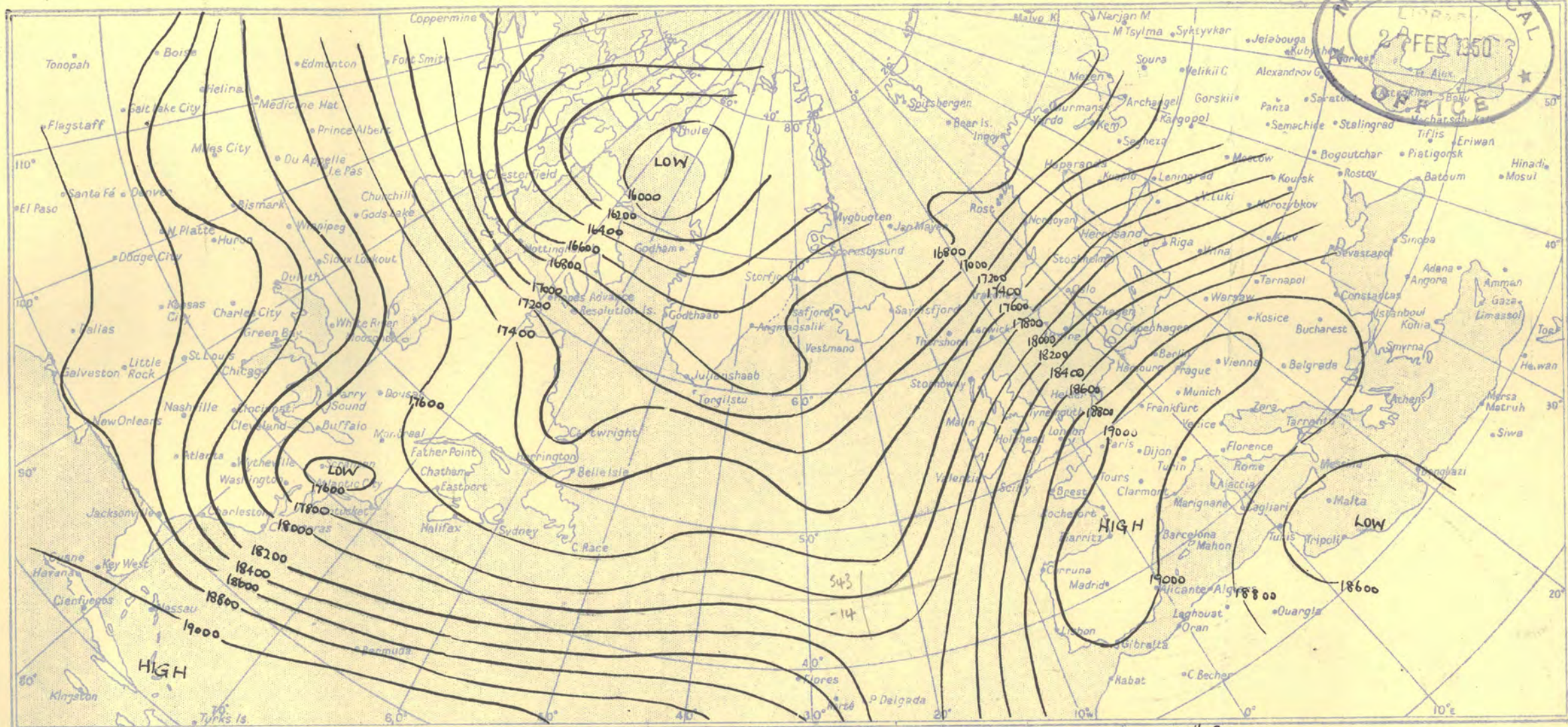
The continuous lines are contour lines of the 300 mb. surface.
The dotted lines are isopleths of the thickness of the layer 500-300 mb.

NOTES ON THE AEROLOGICAL SITUATION.

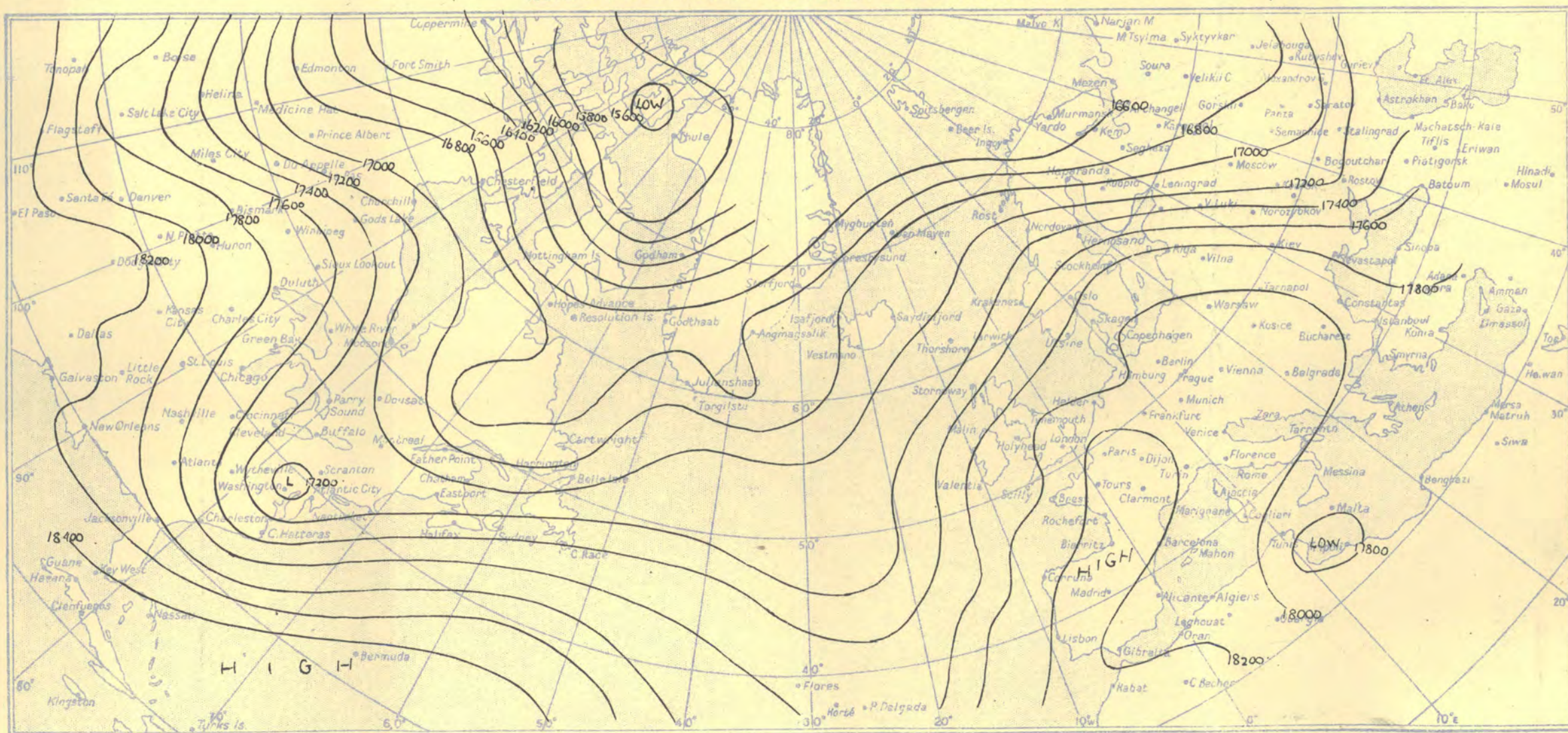
The cold trough in East Atlantic continued to warm out while moving slowly east: it was being overtaken by the warm ridge moving into the Central Atlantic. The cold pool in the Central Mediterranean persisted in about the same place.

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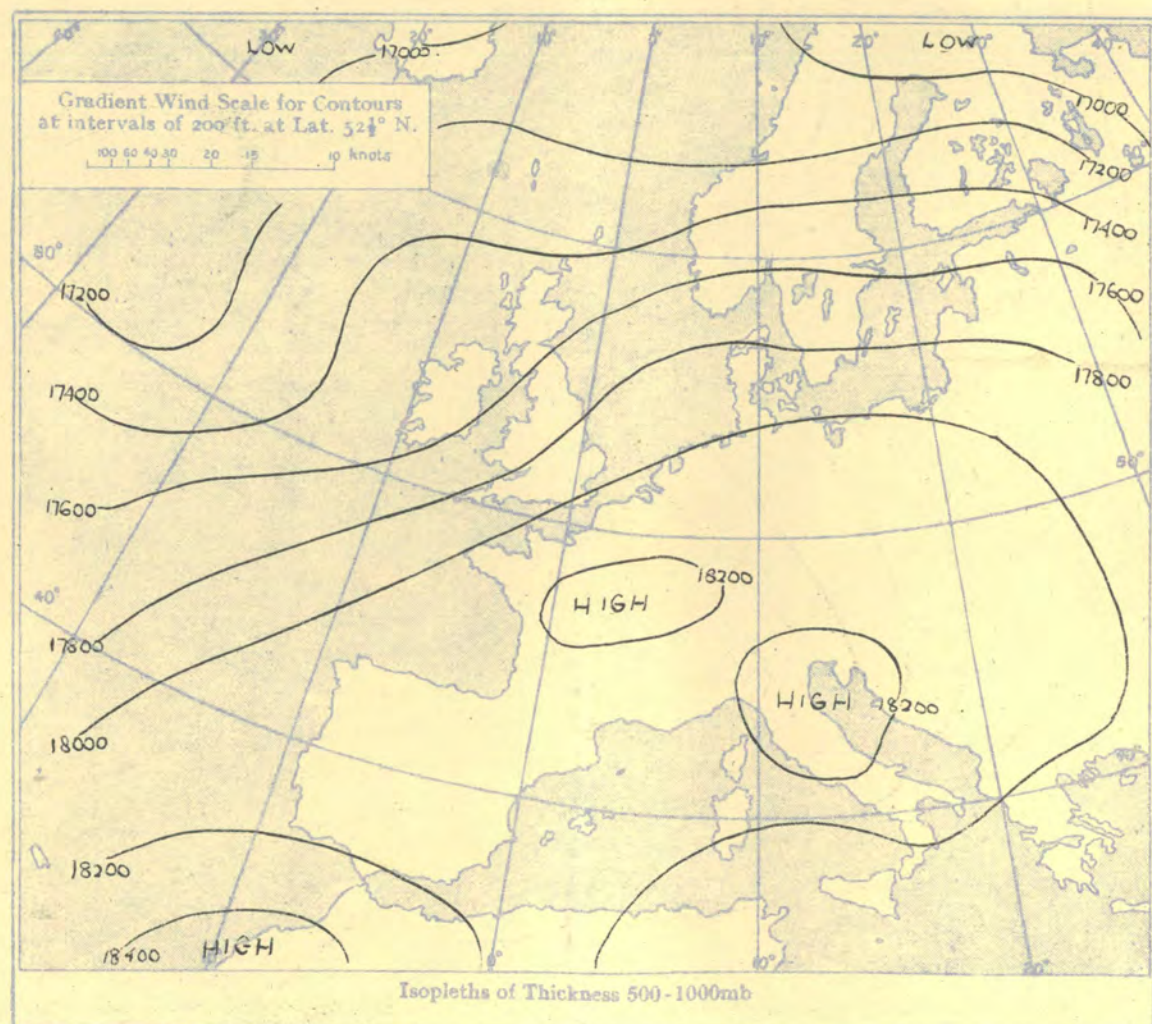
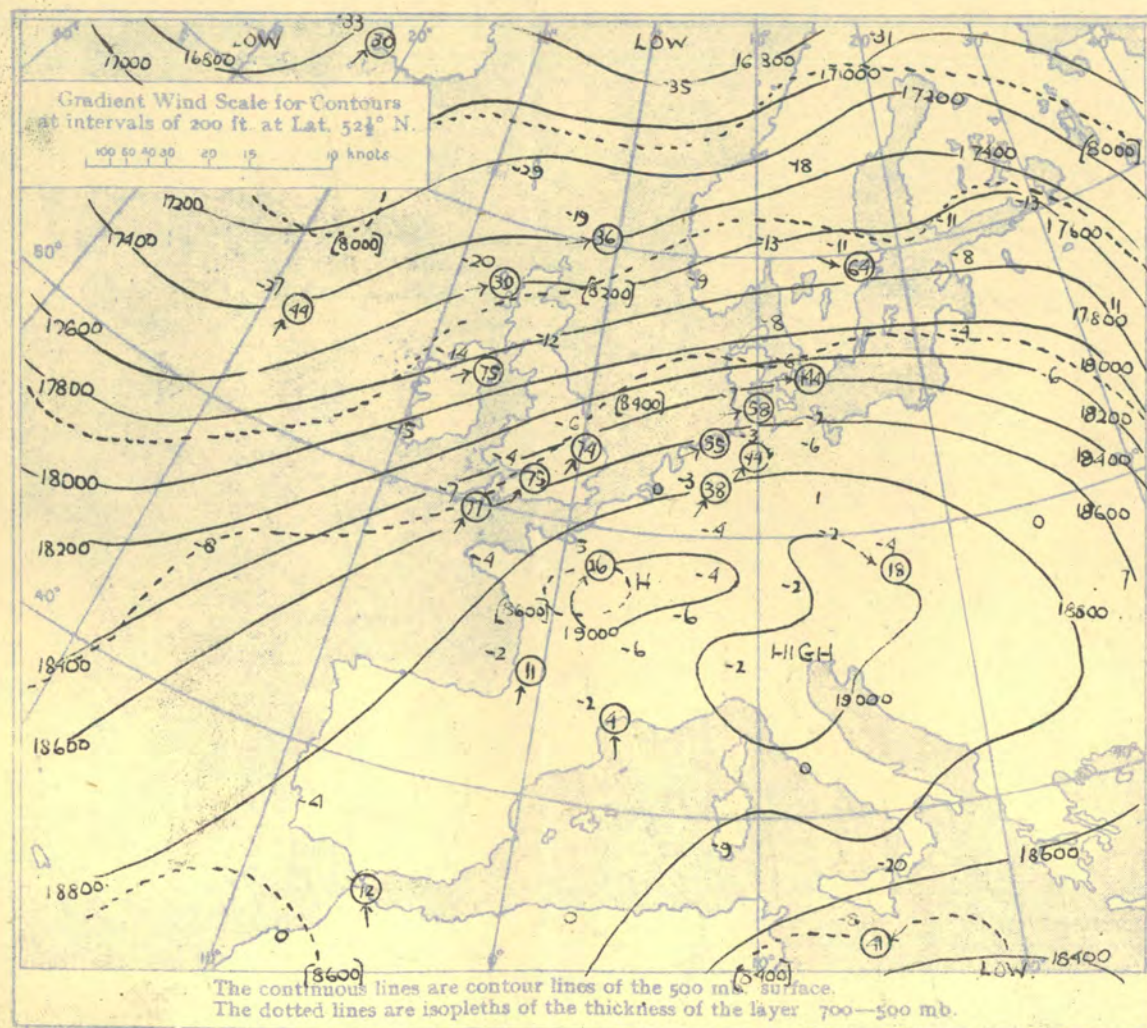
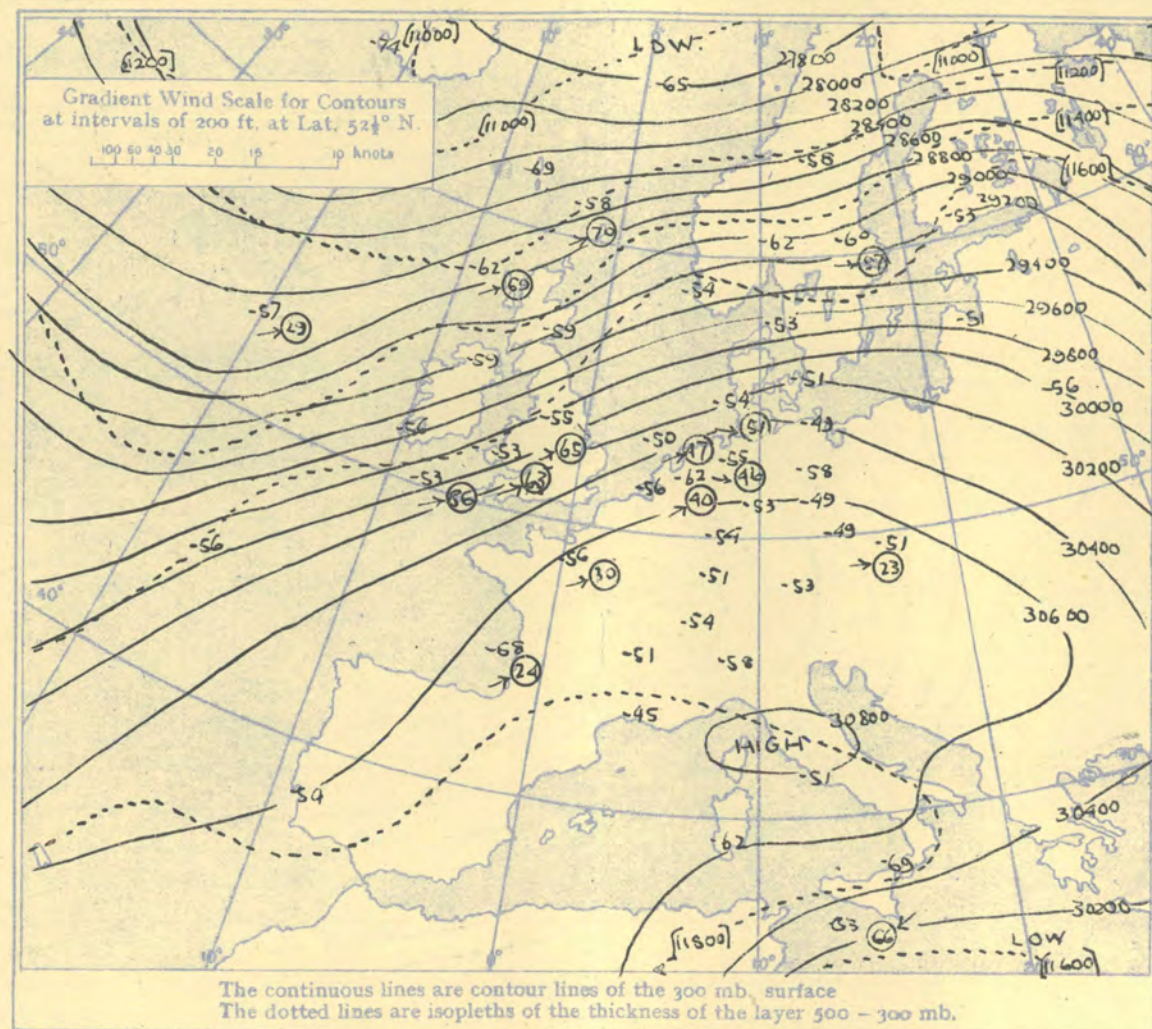
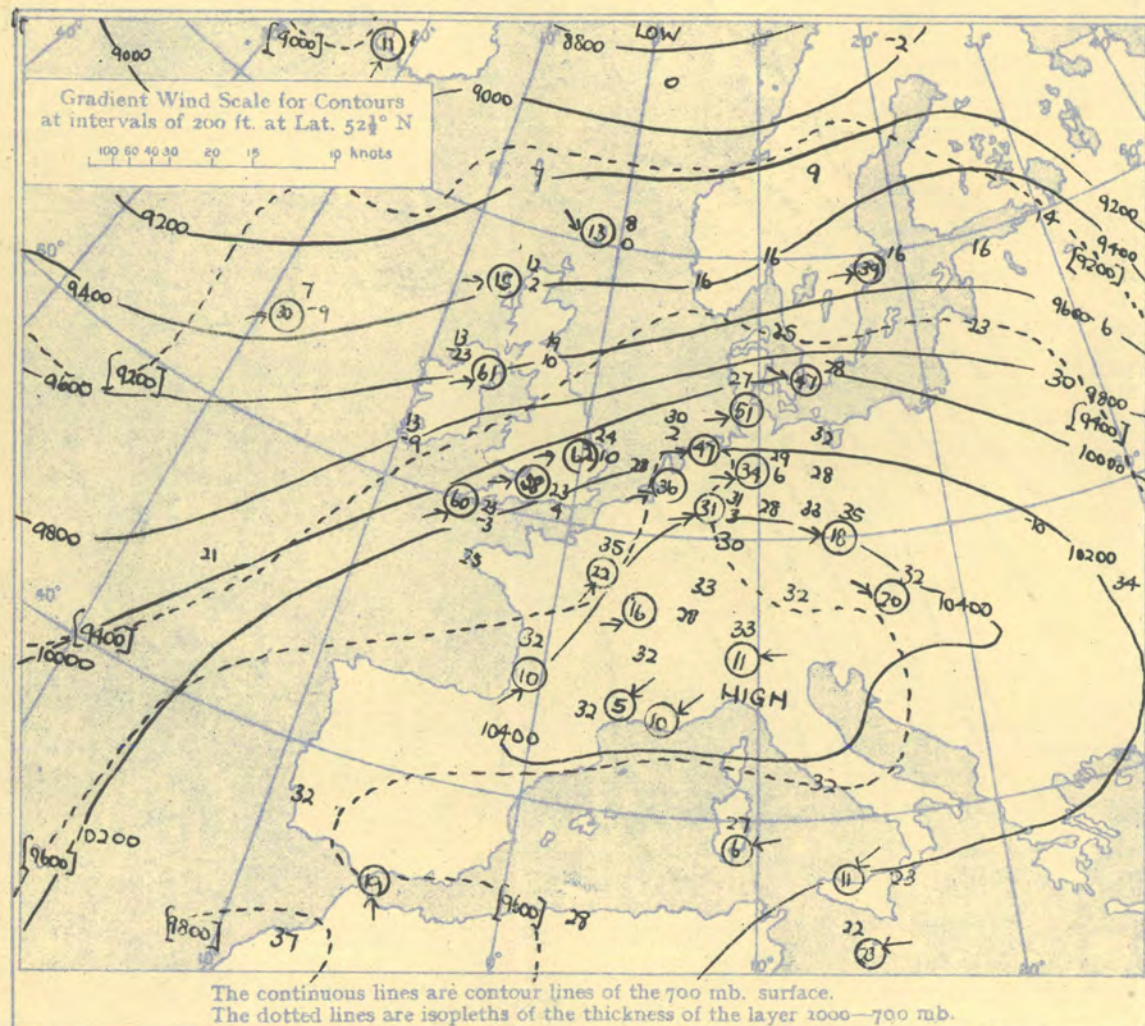
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Friday 17th February 1950.



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 0300 G.M.T.



[illegible]

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.																																																							
Ship	WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER								Ship																		
Lat/Long	60-0N 20-7W				53-8N 18-6W				60-0N 20-2W				53-9N 18-6W				60-0N 20-3W				53-8N 18-6W				60-0N 20-1W				53-8N 18-6W								Lat/Long																		
Pressure { Time M.S.L. Surf Freezing	17 th Feb 15h G.M.T.				17 th Feb 15h G.M.T.				17 th Feb 21h G.M.T.				17 th Feb 21h G.M.T.				18 th Feb 03h G.M.T.				18 th Feb 03h G.M.T.				18 th Feb 09h G.M.T.				18 th Feb 09h G.M.T.				G.M.T.				Time M.S.L. Surf Freezing																		
	996 mb				1001 mb				996 mb				1002 mb				993 mb				1005 mb				992 mb				1007 mb				mb																						
	998 mb				1001 mb				996 mb				1002 mb				993 mb				1005 mb				992 mb				1007 mb				mb																						
	920 mb				870 mb				915 mb				860 mb				920 mb				900 mb				930 mb				920 mb				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																																Surf																							
1000	-5	41	35	240 18	2	49	38	180 14	-1.2	43	36	140 18	5	44	38	270 16	-1.8	42	40	260 12	1.3	46	32	250 22	-2.3	42	37	250 23	1.7	45	32	270 24	1000																						
950		36	25	235 28		43	36	190 23		37	21	138 33		40	33	288 18		35	34	232 20		39	29	254 36		35	34	250 43		37	27	264 36	950																						
900	27.4	29	17	242 24	28.3	36	30	193 24	26.9	30	27	156 25	28.7	36	29	279 19	96.1	29	29	237 19	29.4	32	24	250 31	25.6	28	28	240 31	29.7	29	21	265 35	900																						
850		23	8	247 25		29	20	200 24		21	18	173 20		31	19	275 18		23	23	237 21		25	21	244 26		22	21	237 28		22	19	265 34	850																						
800	57.6	18	-1	239 24	59.3	23	11	208 25	57.0	15	7	182 20	59.6	26	8	275 21	56.5	17	16	235 25	57.9	19	12	240 26	55.8	16	13	236 30	60.0	17	6	265 34	800																						
750		12	-5	228 27		16	12	202 25		9	-2	192 24		20	-10	258 22		10	4	229 26		11	5	238 25		9	4	237 32		12	-2	263 40	750																						
700	31.2	4	-12	224 30	33.2	10	5	198 27	30.3	2	-10	205 26	33.7	14	-9	238 20	89.3	2	-7	222 26	93.6	7	-9	237 30	89.2	2	-2	237 32	93.6	5	-13	255 41	700																						
650		-3	-14	234 35		3	-3	198 27		-6	-17	212 27		6	-13	219 24		-7	-16	217 25		-1	-11	233 33		-6	-12	239 32		-2	-21	249 40	650																						
600	12.9	-12	-22	233 37	13.1	-5	-10	198 28	12.8	-14	-24	213 29	13.2	-1	-15	227 28	12.7	-16	-23	214 28	13.1	-9	-16	223 36	12.7	-14	-18	240 32	13.1	-9	-28	240 39	600																						
550		-20	-31	226 46		-15	-23	198 36		-23	-32	206 29		-10	-22	235 39		-26	-31	203 33		-17	-29	219 39		-22	-28	245 31		-16	-39	240 39	550																						
500		17.1	-30	240 51	17.5	-26	-35	203 34	17.0	-33	-41	197 29	17.6	-19	-32	217 44	16.9	-36	-40	192 39	17.4	-27	-37	206 44	16.9	-31	-39	252 32	17.4	-24	-45	253 42	500																						
450		-40	-50	241 53		-38	-48	203 36		-44		206 35		-29	-49	206 52		-48		182 44		-37	-47	206 42		-40	-47	255 37		-32	-55	255 39	450																						
400	22.1	-49		244 37	22.5	-50		205 66	22.0	-51		221 41	22.7	-39	-52	196 60	21.9	-53		182 36	22.5	-47		216 32	21.9	-50		258 37	22.5	-42		257 36	400																						
350		-57		245 35		-63		206 67		-56		222 35		-44		186 62		-61		194 35		-54		226 29		-60		262 36		-54		263 37	350																						
300	28.3	-67		245 37	28.6	-59		201 60	(345)	-57			29.1	-48		190 65	28.0	-66		215 30	28.7	-57		233 29	28.0	-66		268 42	28.8	-62		269 37	300																						
250		-63		237 48		-58		204 49						-60		197 52		-63		210 33		-57		227 34		-66		251 36		-68		274 44	250																						
200	36.9	-60		237 48	37.3	-60		210 56					37.9	-48		211 48	(236)	-62			37.4	-57		227 44	36.6	-64		251 34	37.3	-62		268 46	200																						
170		-60		244 45		-59		218 47						-51		212 44						-59		227 51		-65		251 42		-59		263 48	170																						
150		-63		243 44		-62		231 45						-53		221 45				Isothermal		-61		227 44		-65		249 49		-60		260 42	150																						
130		-64		238 41	(135)	-63								-55		236 45				450	-432	46	-48°		-68		251 39		-60		259 42	130																							
110		-68		240 42									(105)	-57		252 48						-65		227 44		-68		251 45		-60		253 44	110																						
100	51.5	-68		246 44										-56							52.1	-66		227 44		-74		251 48	52.1	-64		252 43	100																						
90		-67		245 44																		-67		227 44		-74		252 63		-65		250 42	90																						
80		-67		241 43																		-67		227 44		-74		258 59		-64		250 39	80																						
70		-68		240 46																							252 48		(73)	-63				70																					
60	(45)	-71		250 49																														60																					
				Isothermal																																																			
				803-787 46 17°																																																			

Saturday, 18th February 1950

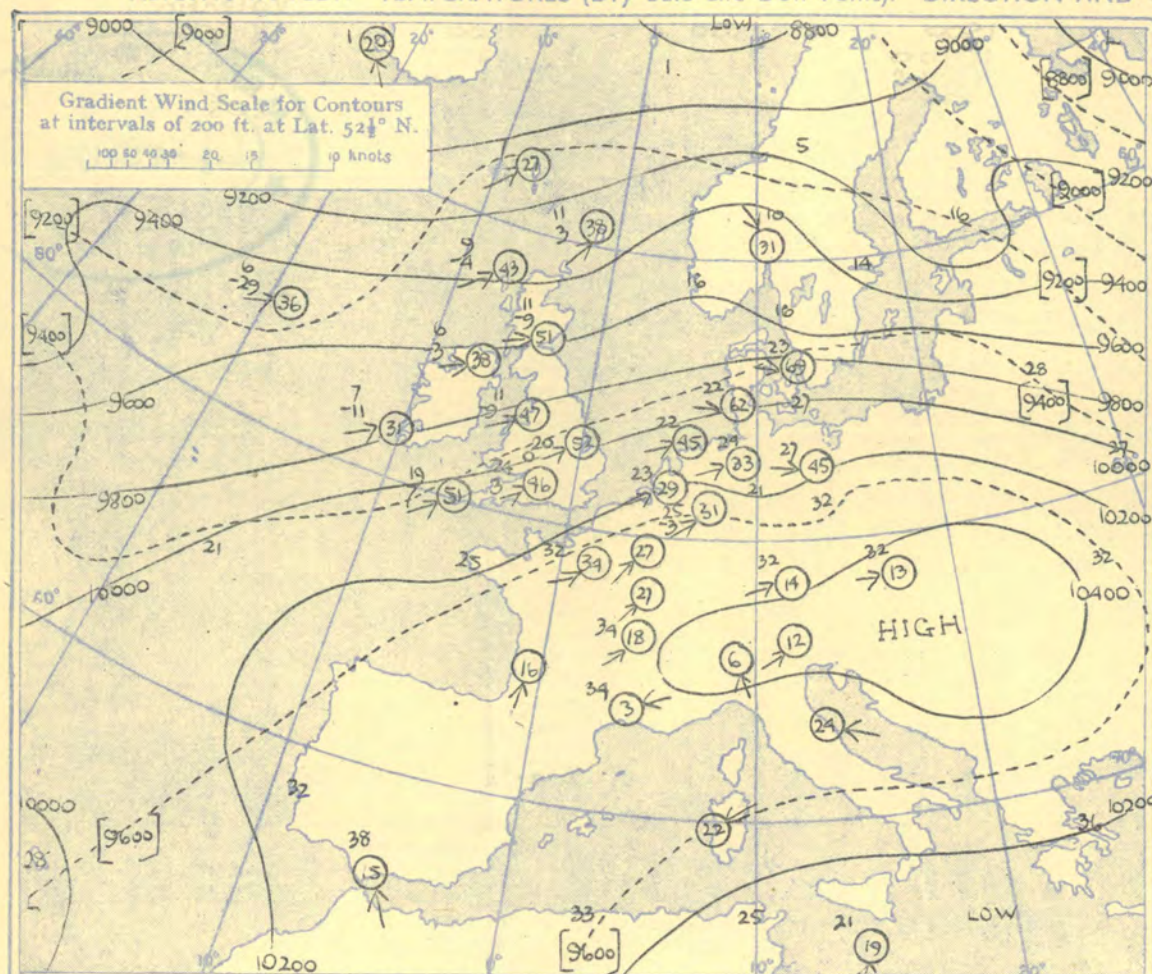
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION						
Pressure mb	Time M.S.L.	Surf Freezing	0300h		G.M.T.	0300h		G.M.T.	0300h		G.M.T.	0300h		G.M.T.	0300h		G.M.T.	0300h		G.M.T.	0300h		G.M.T.	0300h		G.M.T.	0300h		G.M.T.	0300h		G.M.T.	0300h		Time M.S.L.	Surf Freezing								
			0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.			0300h	G.M.T.	0300h	G.M.T.	0300h	G.M.T.	0300h	G.M.T.
			0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.		0300h	G.M.T.			0300h	G.M.T.	0300h	G.M.T.	0300h	G.M.T.	0300h	G.M.T.
Surf	027	38	37	191	05	005	43	41	180	25	023	44	40	214	12	006	50	42	235	20	012	47	45	190	08	044	48	47	225	07	029	50	49	203	10	Surf								
1000	13	38	37	210	13	10	43	41	190	42	33	42	39	228	36	49	42	238	28	60	47	44	229	24	62	48	47	229	34	60	49	213	25	1000										
950	293	31	30	222	15	291	34	32	197	47	315	35	30	234	40	334	39	241	35	345	44	37	246	36	349	49	19	228	41	348	40	39	231	36	950									
900	27	19	234	18	27	19	234	18	205	51	624	36	21	237	45	645	30	21	249	39	660	42	25	241	54	44	12	226	46	38	30	228	37	900										
850	599	23	08	236	21	598	23	19	207	47	624	36	14	238	47	645	30	10	247	39	660	42	25	241	54	44	12	226	46	38	30	228	37	850										
800	599	23	08	236	21	598	23	19	207	47	624	36	14	238	47	645	30	10	247	39	660	42	25	241	54	44	12	226	46	38	30	228	37	800										
750	16	02	253	20	17	08	211	42	42	965	14	01	238	46	987	17	00	244	57	101	20	03	245	57	101	22	02	233	42	100	17	10	228	56	750									
700	937	11	05	272	21	938	12	02	209	42	135	03	14	235	58	138	03	02	239	74	140	08	13	243	60	141	11	09	235	50	139	05	06	234	61	700								
650	06	12	258	23	05	23	206	39	39	178	15	30	236	83	182	15	31	236	79	184	11	19	238	75	187	04	26	232	66	184	13	18	225	75	650									
600	06	12	258	23	05	23	206	39	39	178	15	30	236	83	182	15	31	236	79	184	11	19	238	75	187	04	26	232	66	184	13	18	225	75	600									
550	132	02	23	249	26	132	01	23	210	36	135	03	14	235	58	138	03	02	239	74	140	08	13	243	60	141	11	09	235	50	139	05	06	234	61	550								
500	175	23	48	255	33	176	21	38	208	25	178	15	30	236	83	182	15	31	236	79	184	11	19	238	75	187	04	26	232	66	184	13	18	225	75	500								
450	23	56	257	43	23	56	257	43	215	31	230	34	50	232	99	234	33	40	237	99	237	30	40	237	86	239	27	46	230	78	236	32	39	225	86	450								
400	226	45	246	49	227	43	218	40	214	45	230	34	50	232	99	234	33	40	237	99	237	30	40	237	86	239	27	46	230	78	236	32	39	225	86	400								
350	53	247	62	247	62	214	45	214	45	230	34	50	232	99	234	33	40	237	99	237	30	40	237	86	239	27	46	230	78	236	32	39	225	86	350									
300	288	66	248	75	289	60	226	71	226	71	294	55	233	122	234	33	40	237	99	237	30	40	237	86	239	27	46	230	78	236	32	39	225	86	300									
250	74	243	77	245	75	275	62	233	63	233	63	70	80	233	122	234	33	40	237	99	237	30	40	237	86	239	27	46	230	78	236	32	39	225	86	250								
200	372	69	245	75	375	62	233	63	233	63	70	80	233	122	234	33	40	237	99	237	30	40	237	86	239	27	46	230	78	236	32	39	225	86	200									
170	68	247	66	247	66	235	60	235	60	235	60	72	82	235	116	235	60	235	116	235	60	235	60	235	60	235	60	235	60	235	60	235	60	235	60	170								
150	69	250	59	250	59	240	58	240	58	240	58	66	76	240	58	240	58	240	58	240	58	240	58	240	58	240	58	240	58	240	58	240	58	240	58	150								
130	71	249	54	249	54	241	54	241	54	241	54	68	78	241	54	241	54	241	54	241	54	241	54	241	54	241	54	241	54	241	54	241	54	241	54	130								
110	78	248	54	248	54	244	54	244	54	244	54	70	80	244	54	244	54	244	54	244	54	244	54	244	54	244	54	244	54	244	54	244	54	244	54	110								
100	516	81	253	54	521	66	247	51	247	51	522	65	247	51	522	65	247	51	522	65	522	65	247	51	522	65	247	51	522	65	247	51	522	65	100									
90	79	256	52	256	52	249	52	249	52	249	52	74	84	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	90								
80	79	256	52	256	52	249	52	249	52	249	52	74	84	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	80								
70	79	256	52	256	52	249	52	249	52	249	52	74	84	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	70								
60	79	256	52	256	52	249	52	249	52	249	52	74	84	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	249	52	60								
Tropopause		I 247 mb - 75°				I 300 mb - 60°				I 200 mb - 80°				I 335 mb - 77°				I 176 mb - 102°				I 170 mb - 100°				I 191 mb - 97°				Tropopause														
		32,800'				28,900'				37,800'				47,400'				41,000'				47,100'				39,100'																		

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

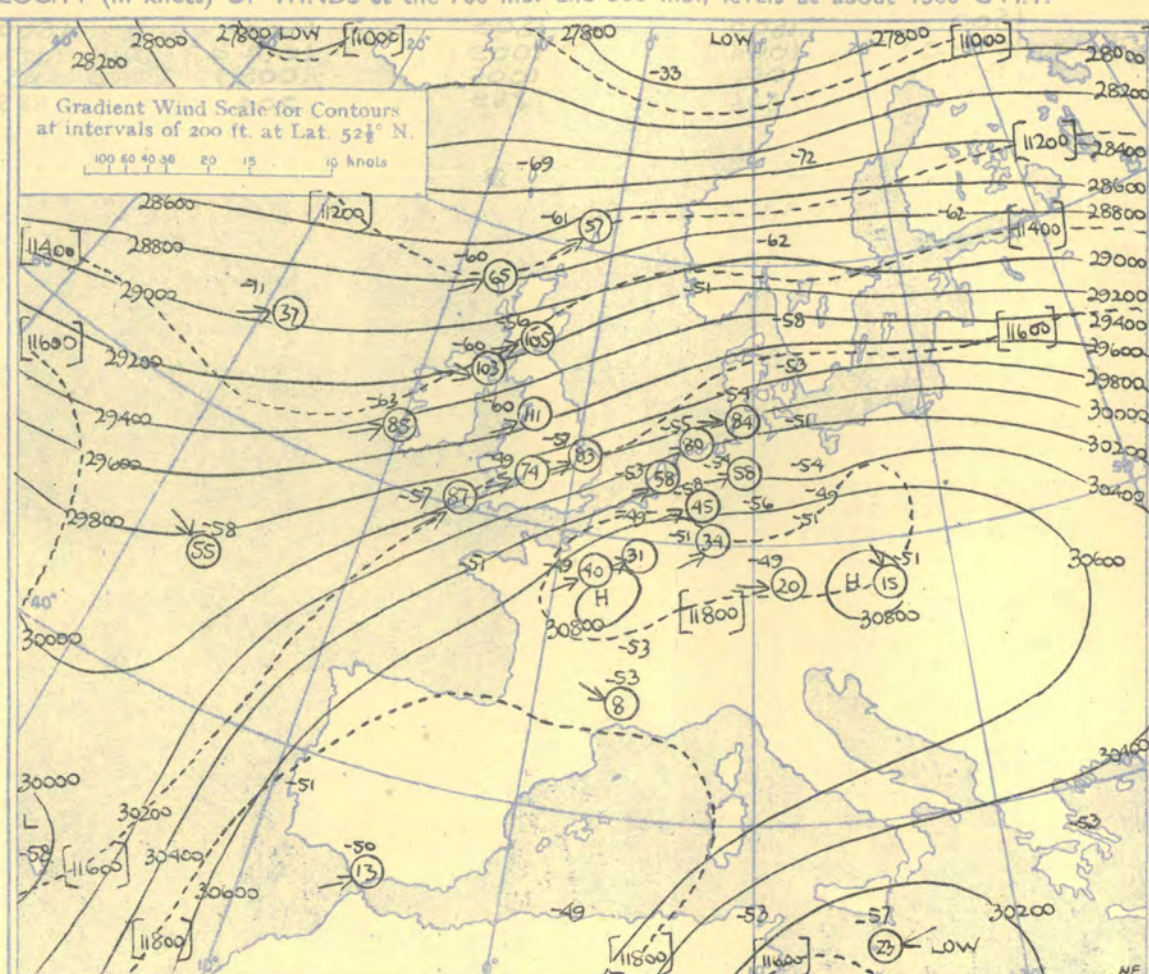
18th February 1950

[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 1500 G.M.T.

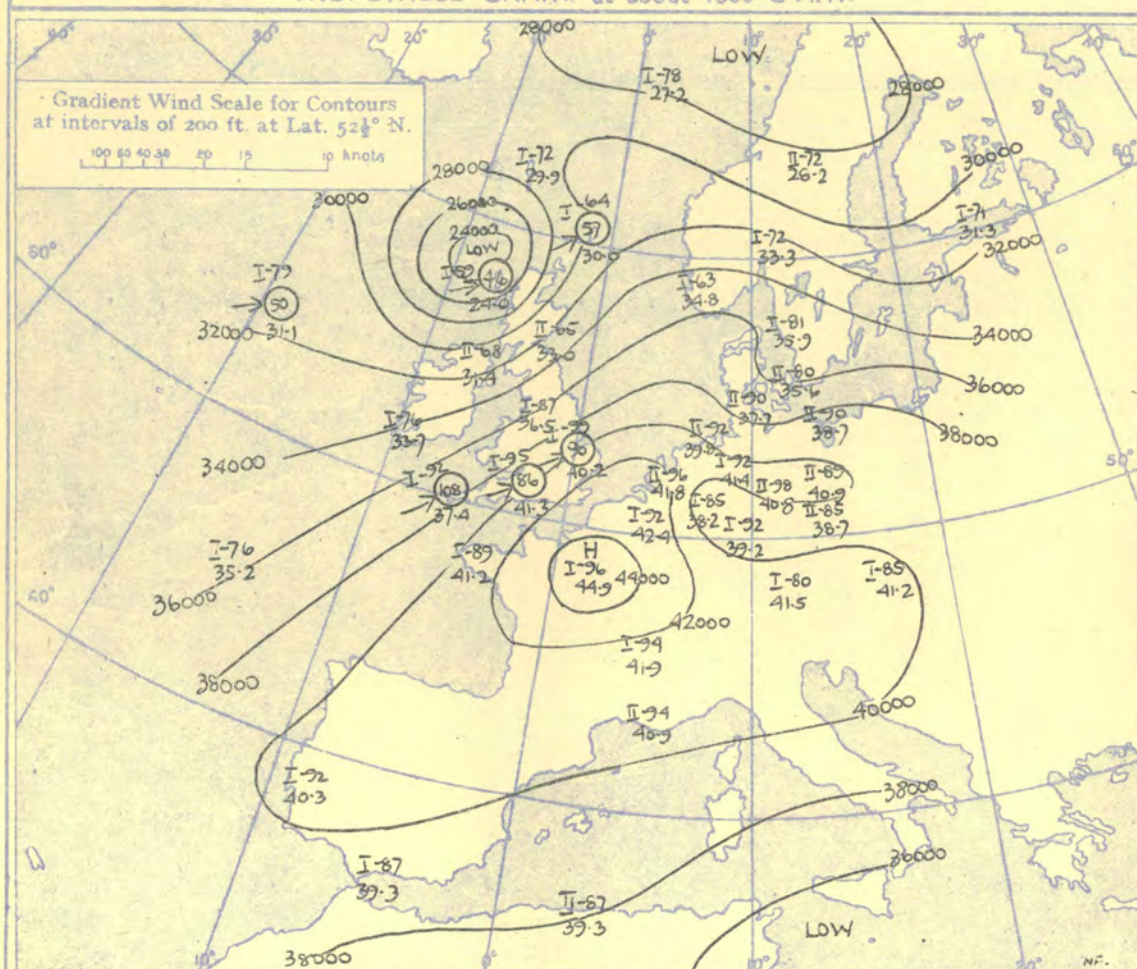


The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000—700 mb.



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.

TROPOPAUSE CHART at about 1500 G.M.T.



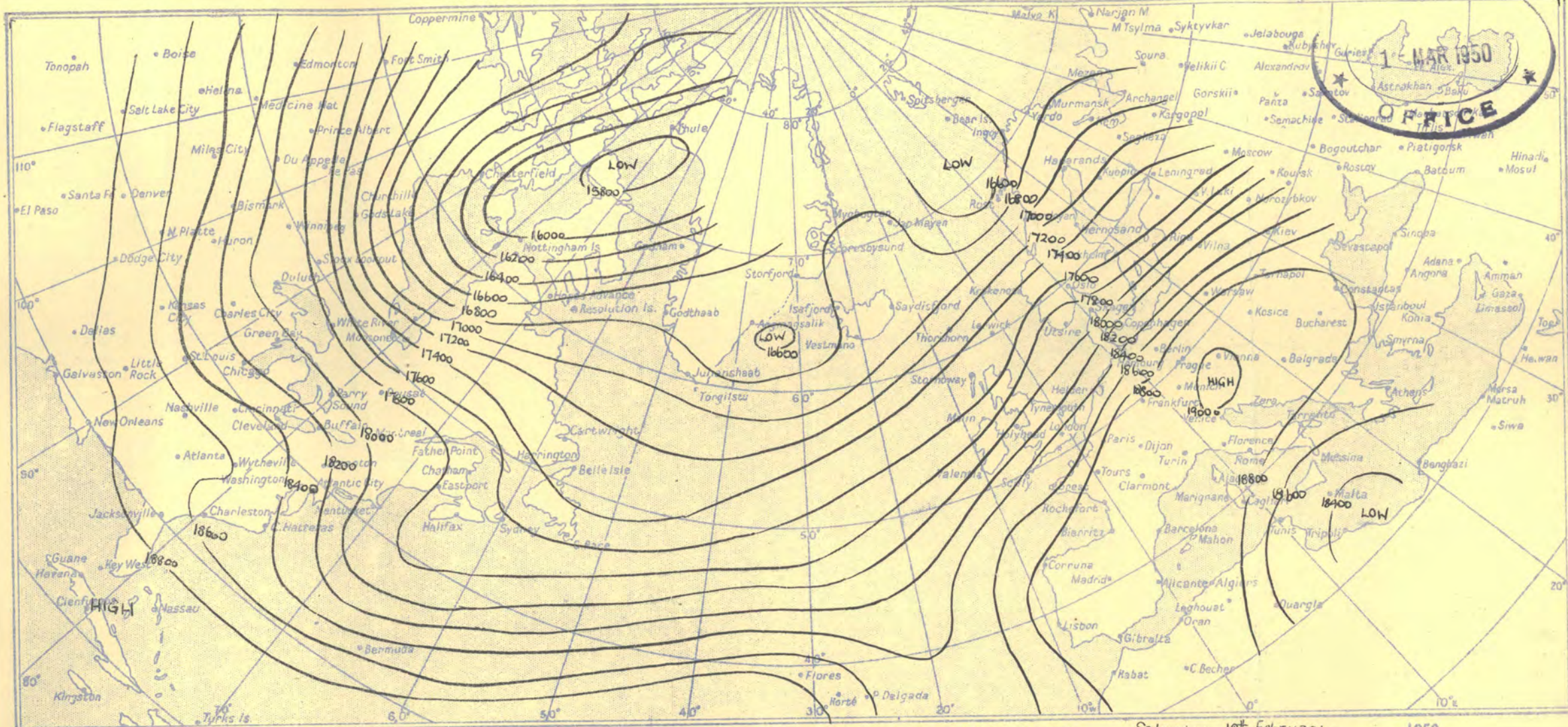
Contour lines of Height of Tropopause.
Temperature of Tropopause.

NOTES ON THE AEROLOGICAL SITUATION.

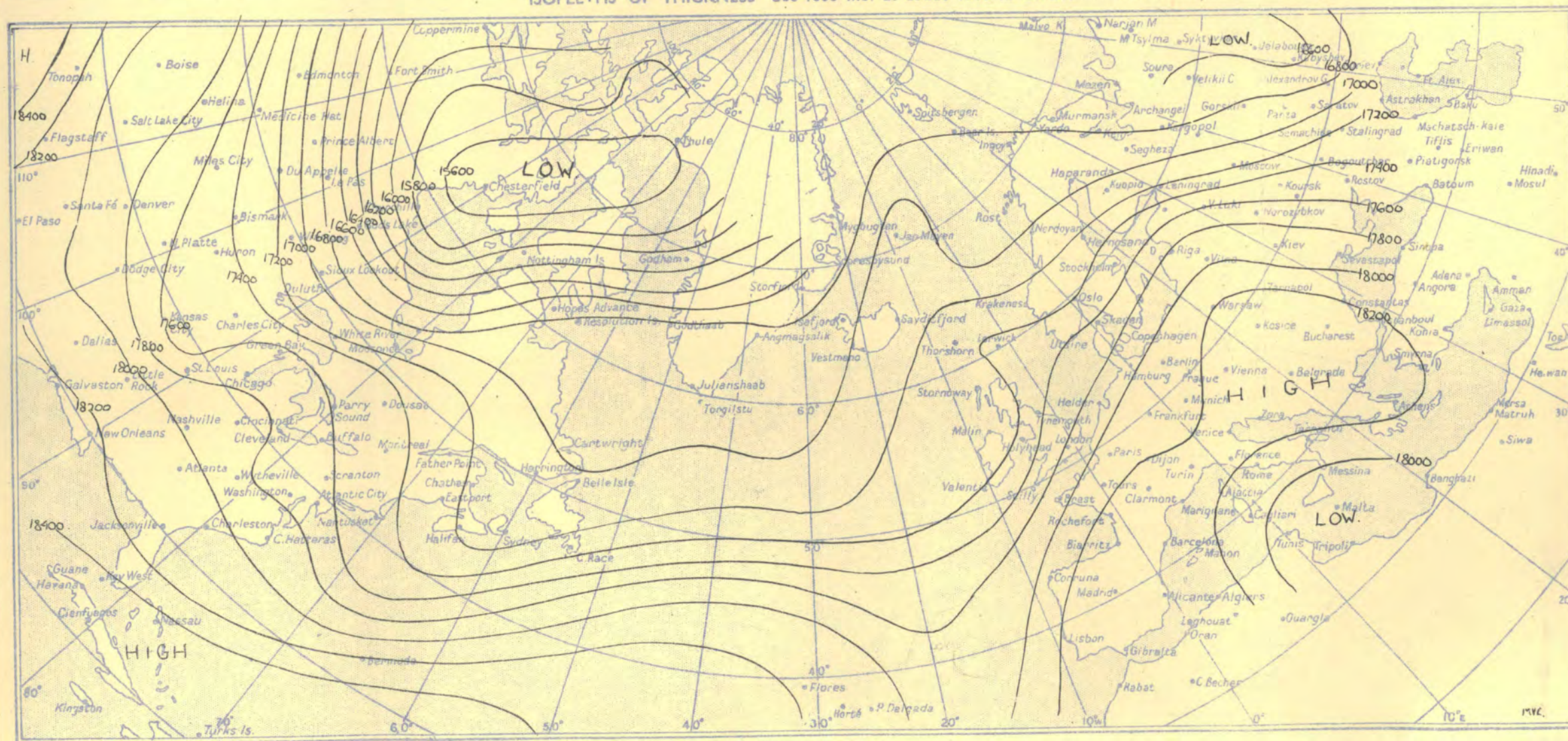
The warm ridge over the Central Atlantic moved to the Eastern Atlantic and steadily continued to warm out the cold trough ahead. The cold pool in the Central Mediterranean showed little change.

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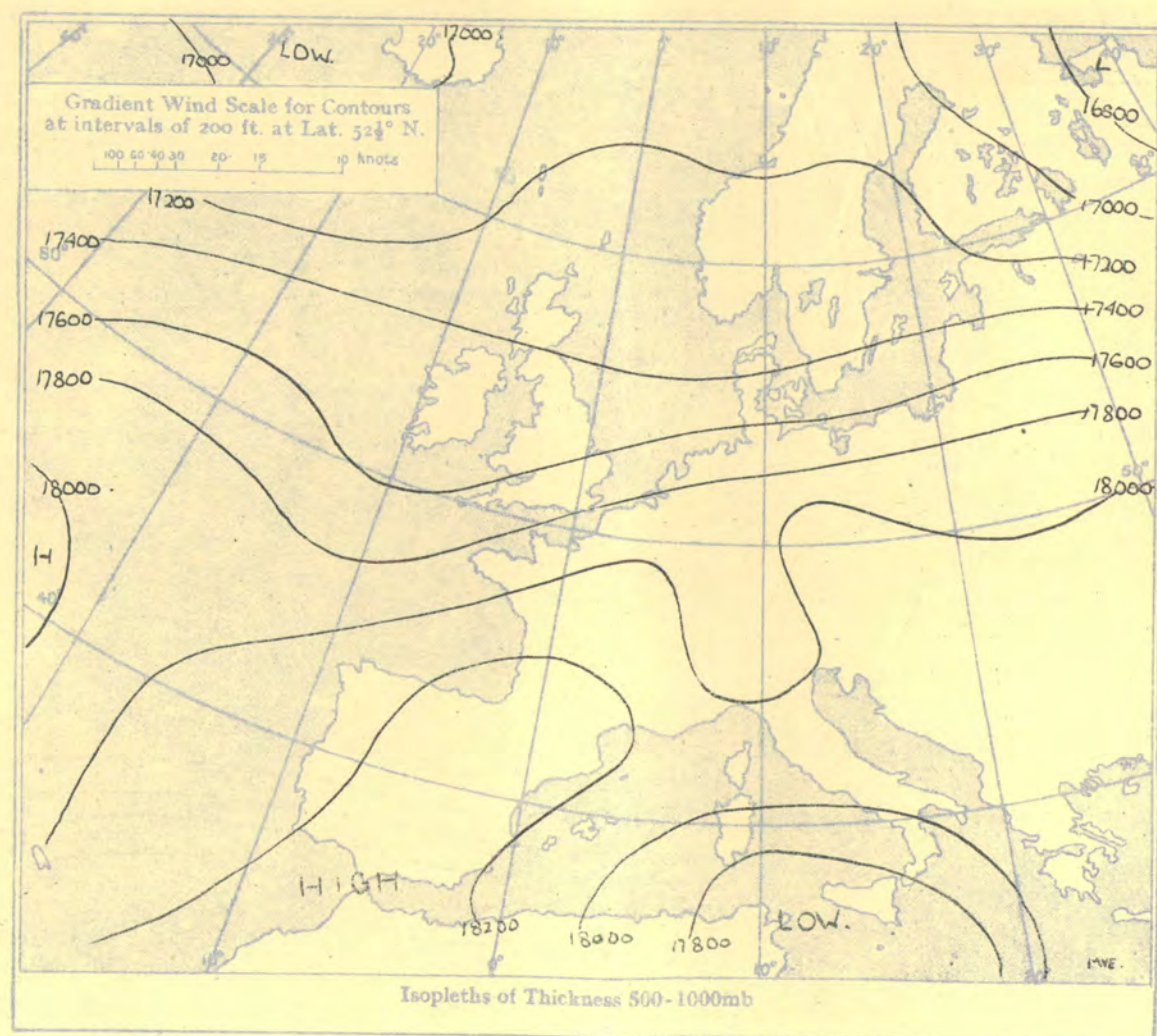
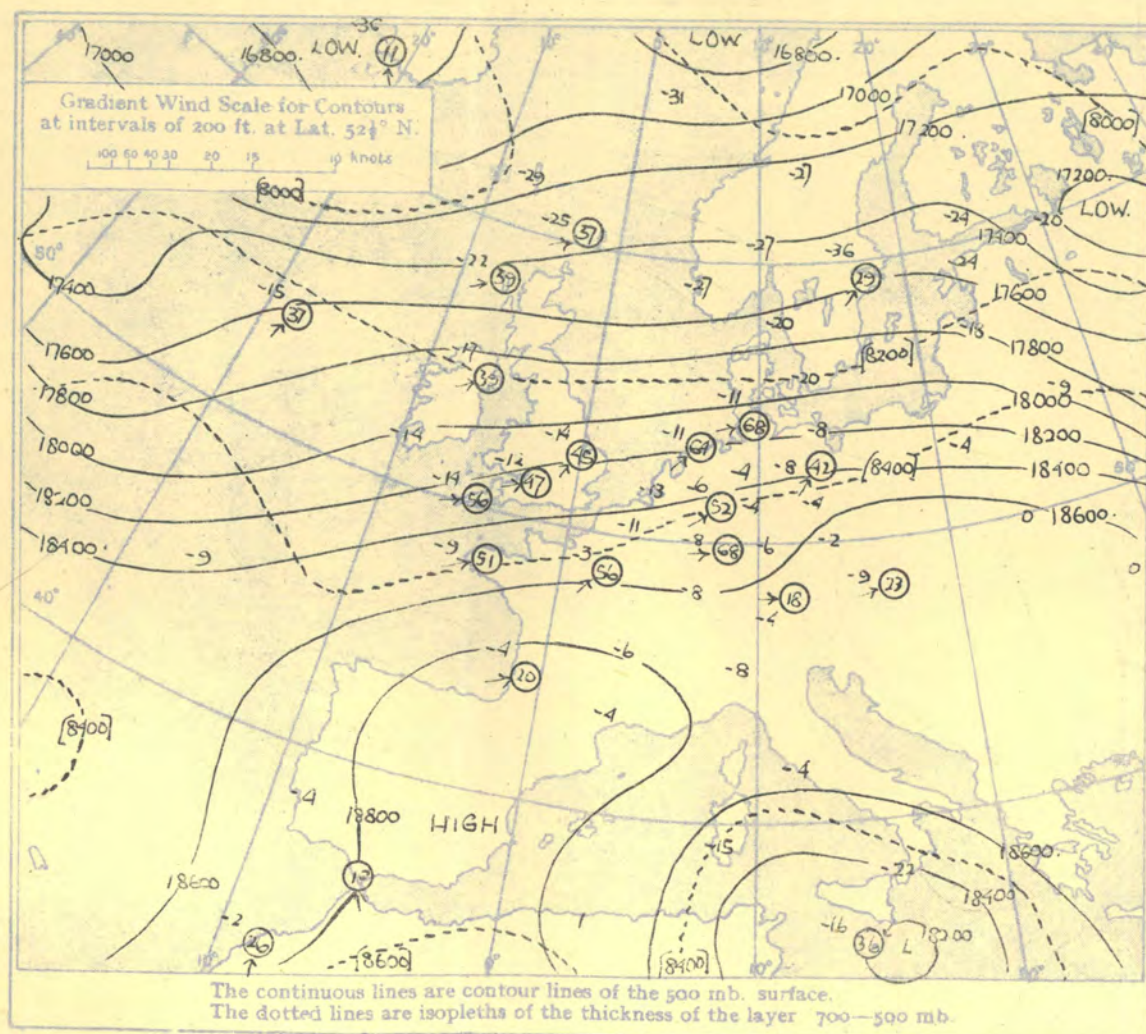
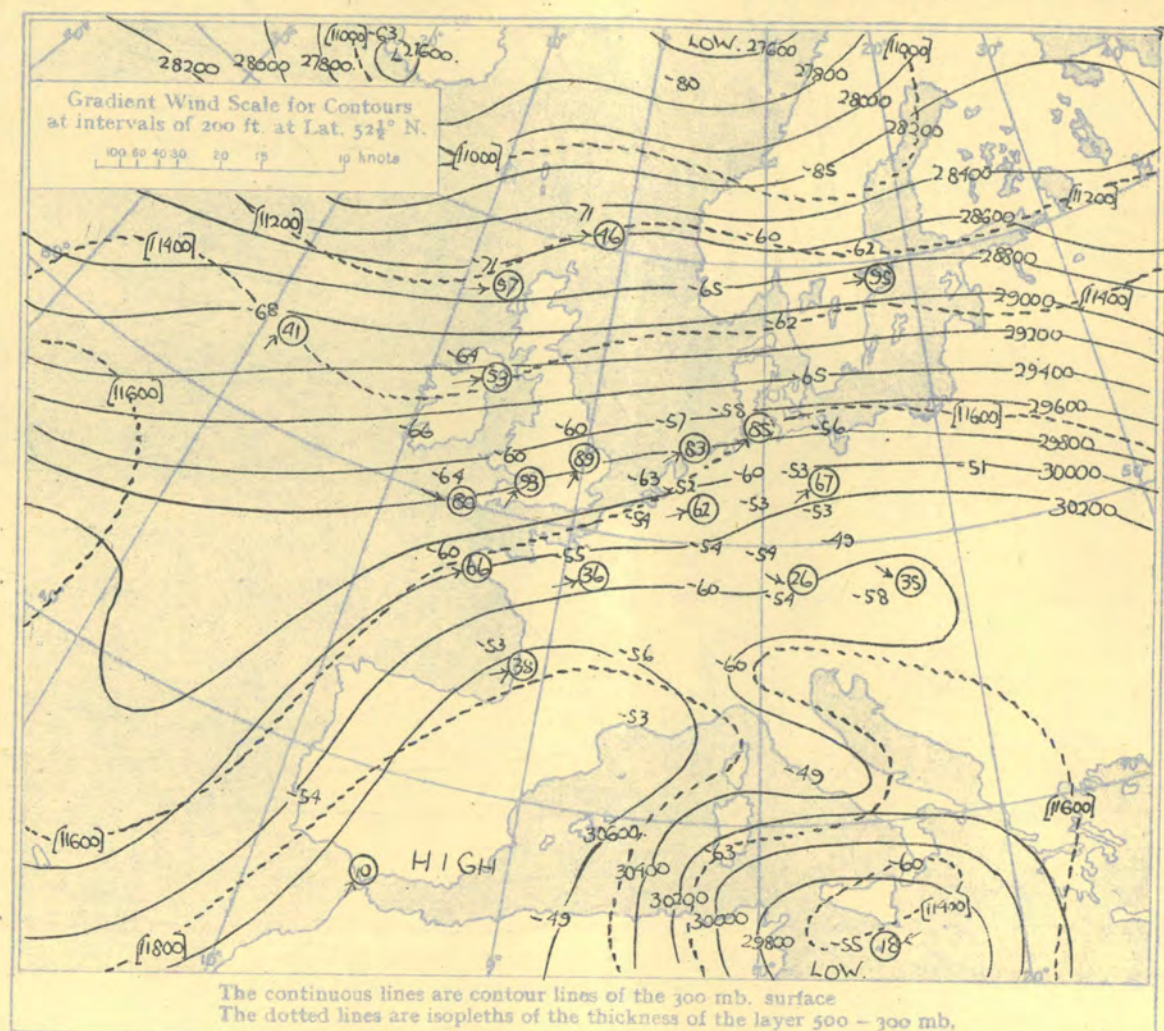
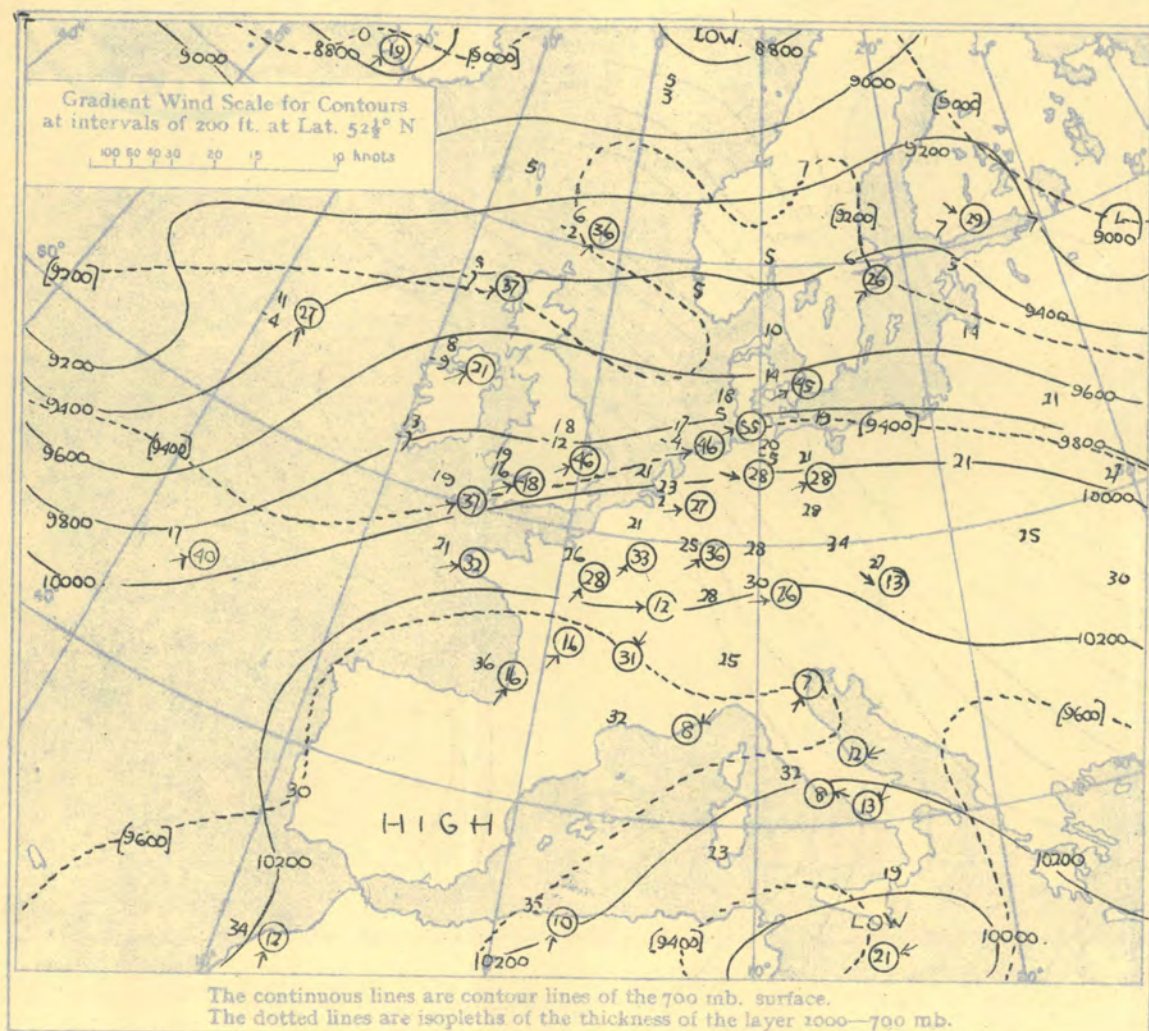
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Saturday 18th February. 1950.



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 0300 G.M.T.



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY

[illegible]

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

DIRECTION (degrees)															Weather	Watch	Time	Place
Place	Liverpool		Leuchars		Larkhill		Stirling		Gallinstown								Time	Place
Time	21h 18"	21h 18"	21h 18"	21h 18"	09h 15"	09h 15"	02h 19"	02h 19"	02h 19"	02h 19"								
Type	Pilar	Pilar	Pilar														Type	
Feet	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Feet	
Surf.	270	18	230	10			190	14	260	01	200	06					Surf.	
1,000	250	18	260	33			170	14	250	25	240	20					1,000	
2,000	270	20	270	32			190	22	250	31	250	21					2,000	
3,000	270	22	270	32			190	20	250	33	250	22					3,000	
4,000	270	23	260	32			190	23	240	36	250	24					4,000	
5,000	270	24	260	31			190	23	260	41	240	23					5,000	
6,000	270	25	260	31			190	26			240	13					6,000	
8,000	270	27	270	32			190	28									8,000	
10,000	260	36	270	30			200	27									10,000	
14,000	250	49	270	37			220	37									14,000	
18,000	240	66	270	46			230	37									18,000	
24,000	240	78	250	58			240	39									24,000	
30,000	240	102	250	62	243	59	230	41									30,000	
40,000	240	69	250	62			220	42									40,000	
50,000	260	45	260	49			250	45									50,000	
	(43000')	(46000')					(60	42)									(57000')	

NEPHOSCOPE OBSERVATIONS

[illegible]

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

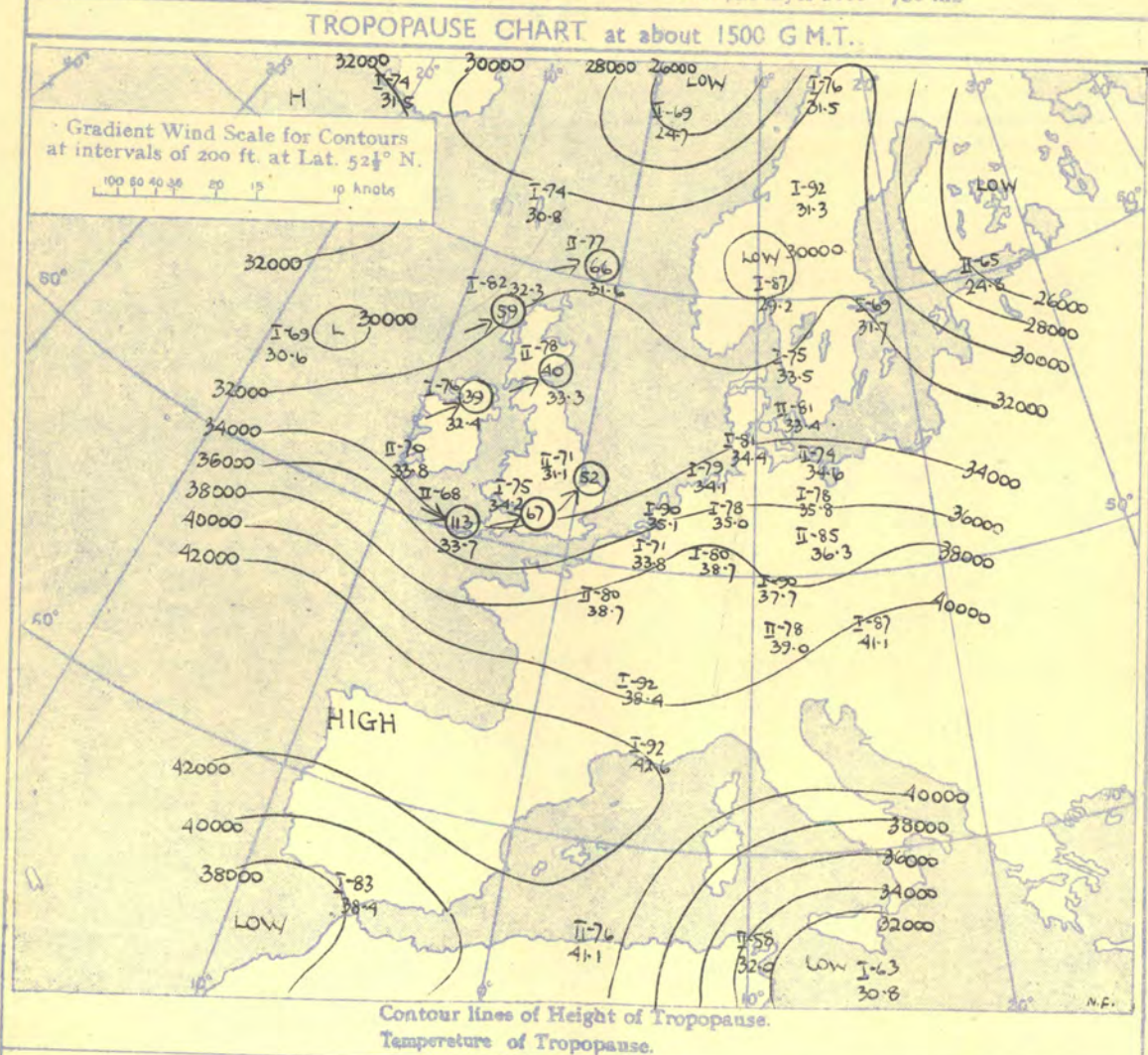
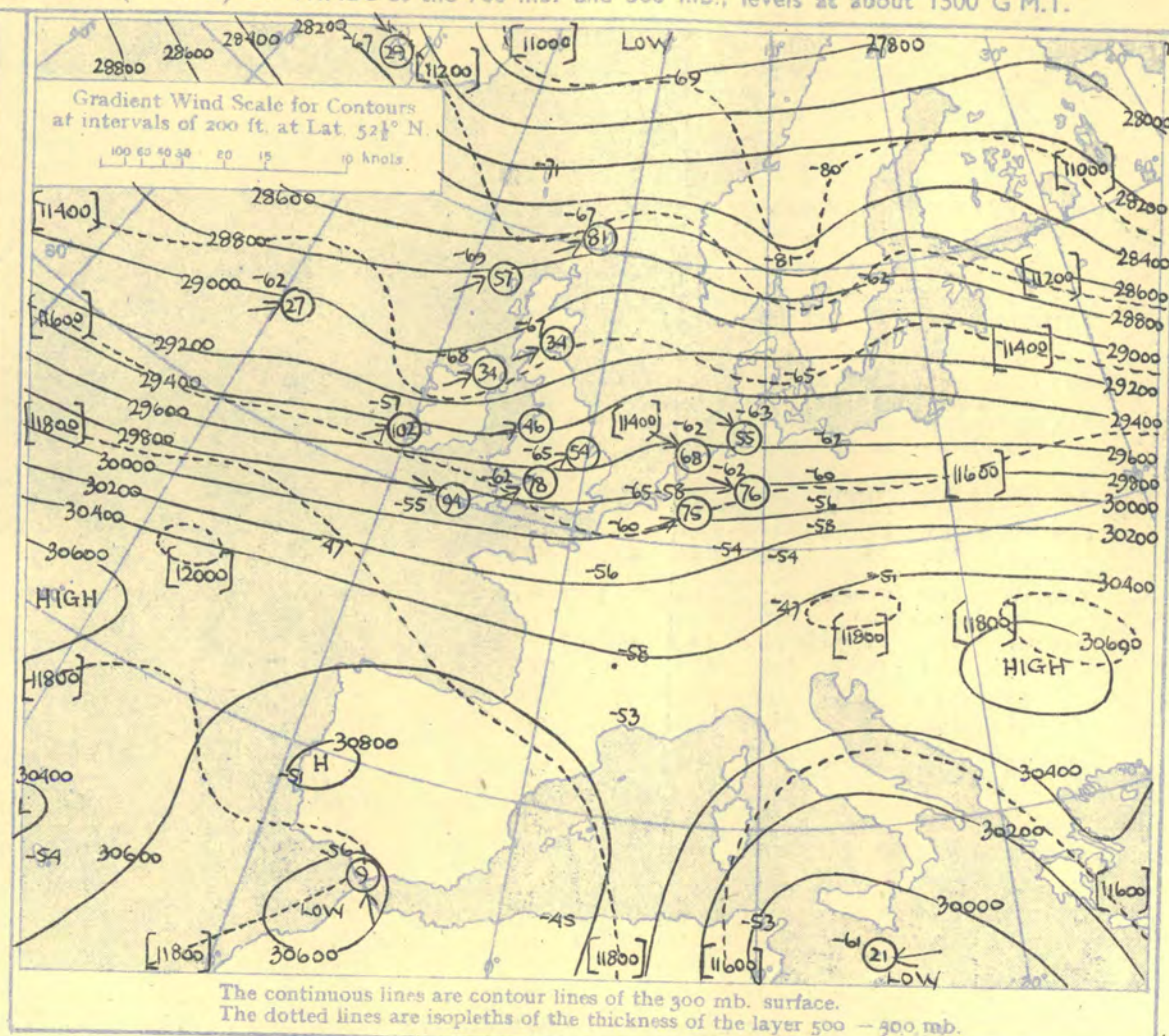
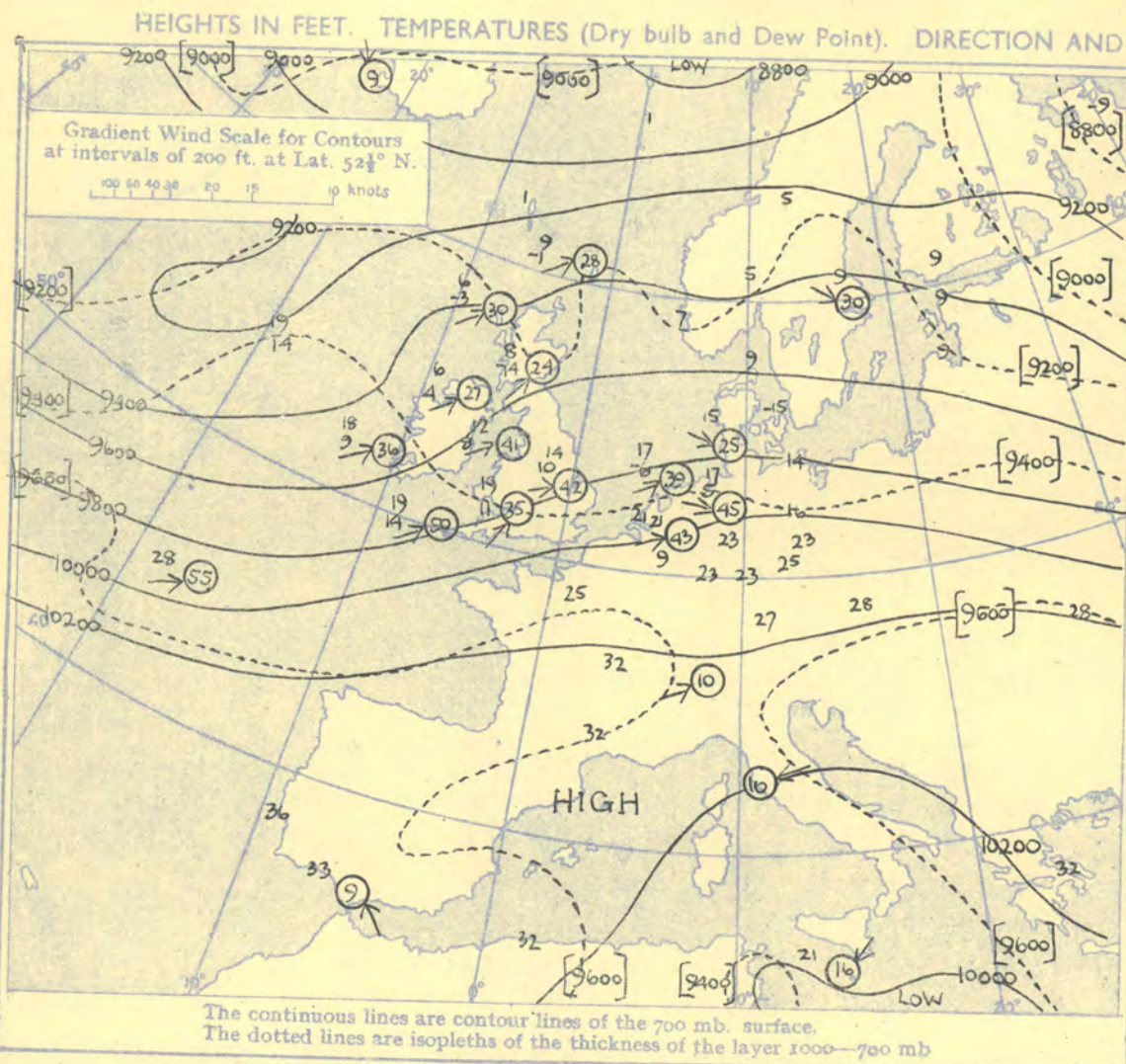
[illegible]

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

Sunday 19th February, 1950

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)																										Sunday 19th February, 1950													
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION	
Time M.S.L.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		Time M.S.L.									
Surf		1004.1		mb		1004.7		mb		1017.3		mb		1011.0		mb		1022.1		mb		1022.5		mb		1017.8		mb		Surf									
Freezing		910		mb		915		mb		890		mb		866		mb		825		mb		855		mb		896		mb		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		Pressure mb							
Surf	1000	02.7	40	35	247	25	00.5	39	36	225	08																					Surf							
	950	1.1	37	37	253	35	2.6	39	35	27	31																					1000							
	900	29.1	31	26	257	32	30.5	30	24	244	32																					950							
	850		24	19	258	33		24	17	247	33																					900							
	800	59.5	19	19	259	33	61.0	18	08	250	33																					850							
	750		12	10	259	35		12	01	250	33																					800							
	700	93.0	06	02	261	36	94.5	05	07	249	37																					750							
	650		00	20	264	38		01	17	249	34																					700							
	600	131	08	23	266	38	132	06	30	247	33																					650							
	550		16	42	266	38		14	41	243	36																					600							
	500	174	25	48	266	37	175	22	47	244	37																					550							
	450		34	51	266	36		32	55	247	43																					500							
	400	225	45		267	39	226	44		247	44																					450							
	350		57		268	42		57		246	49																					400							
	300	286	71		264	46	288	71		246	57																					350							
	250		77		266	49		77		247	63																					300							
	200	370	69		263	51	371	70		247	54																					250							
	170		68		263	56		68		251	56																					200							
	150		71		257	57		71		250	59																					170							
	130		71		253	60		71		250	66																					150							
	110		72		(112 mb)			72		249	55																					130							
	90																															110							
	80																															90							
	70																															80							
	60																															70							
																																60							
Inversion		994 mb 40° - 983 mb 41°		Surf 29° - 990 mb 40°																																			
NOT AVAILABLE																																							
Isothermal.		860 - 832 mb 28°																																					
Tropopause		I 260 mb - 81° 31,700'		I 247 mb - 80° 33,000'																																			
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION	
Time M.S.L.		0900h		G.M.T.		0900h		G.M.T.		0900h		G.M.T.		0900h		G.M.T.		0900h		G.M.T.		0900h		G.M.T.		0900h		G.M.T.		Time M.S.L.									
Surf		1006.1		mb		1004.0		mb		1015.9		mb		1019.1		mb		1021.1		mb		1020.7		mb		1019.0		mb		Surf									
Freezing		910		mb		915		mb		900		mb		916		mb		893		mb		850		mb		845		mb		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		Pressure mb							
Surf	1000	02.7	38	34	236	20	00.5	39	34	225	10																				Surf								
	950	1.6	36	33	248	27	2.4	40	34																						1000								
	900	29.6	31	28	251	25	30.4	31	27	237	29																				950								
	850		24	21	251	28		25	20	245	30																				900								
	800	60.0	18	17	251	29	60.9	19	14	248	30																				850								
	750		12	10	251	30		13	07	248	32																				800								
	700	93.5	05	03	245	31	94.5	05	06	245	37																				750								
	650		02	05	241	32		02	16	245	36																				700								
	600	131	09	18	240	33	132	08	26	248	39																				650								
	550		17	30	244	37		13	25	254	48																				600								
	500	174	26	33	246	41	175	22	35	256	55																				550								
	450		34	40	247	45		33	47	253	62																				500								
	400	225	46		244	47	226	46		256	68																				450								
	350		61		246	51		58		260	72																				400								
	300	286	73		244	51	288	71		258	83																				350								
	250		71		253	54		74		258	67																				300								
	200	370	65		258	50	372	64		251	57																				250								
	170		68		256	51		65		268	48																				200								
	150		69		256	53		67		259	53																				170								
	130		70		258	57		67																							150								
	110		72		259	56		67																							130								
	90		72		(103 mb)																										90								
	80																															80							
	70																															70							
	60																															60							
Isothermal		996 - 986 mb 38°		Surface 39° - 981 mb 41°																																			
Inversion																																							
Isothermal		600 - 588 mb - 08°																																					
Tropopause		I 267 mb - 78° 31,100'		I 263 mb - 82° 31,000'																																			

No. 11280 DAILY AEROLOGICAL RECORD OF THE METEOROLOGICAL OFFICE, LONDON.										Monday 26 February 1950.										15th February 1950										Page 1																							
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)																																																					
STATION			LERWICK			STORNOWAY			LEUCHARS			ALDERGROVE			LIVERPOOL			DOWNHAM MARKET			LARKHILL			CAMBORNE			Valentia			STATION			STATION																				
Time			1500			1500			1500			1500			1500			1500			1500			1500			1500			1500			1500			1500																	
M.S.L.			1005.7			1005.3			1011.0			1012.6			1013.8			1017.9			1016.7			1014.3			1002.7			1002.7			1002.7			1002.7																	
Surf			995.6			997.2			1010.2			1004			1011.7			1013.3			1000.4			1003.1			1002			1002			1002			1002																	
Freezing			918			900			913			910			883			865			788			813			852			852			852			852																	
Pressure			918			900			913			910			883			865			788			813			852			852			852			852																	
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																	
Temp.			°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.																	
Wind			Dir. Vel.			Dir. Vel.			Dir. Vel.			Dir. Vel.			Dir. Vel.			Dir. Vel.			Dir. Vel.			Dir. Vel.			Dir. Vel.			Dir. Vel.			Dir. Vel.			Dir. Vel.																	
knots			knots			knots			knots			knots			knots			knots			knots			knots			knots			knots			knots			knots																	
Surf			02-7	41	37	236	26	08-0	44	38	225	10	00-2	45	41	10	02-3	44	37	185	10	00-6	46	40	10	01-2	47	42	160	05	04-4	45	44	180	03	02-9	50	49	180	12	00-3	50	47	160	15	Surf							
1000			01-5	36	32	243	31	02-0	44	38	225	10	02-9	44	40	10	03-4	38	33	193	19	03-7	44	38	10	04-8	46	41	195	12	04-5	45	44	180	03	03-7	45	48	204	33	1-0	50	47	163	16	1000							
950			25-9	30	25	244	31	30-0	32	27	226	27	30-8	30	28	27	31-4	33	25	207	20	31-8	33	20	27	33-0	34	23	222	26	32-7	40	38	198	20	22-3	1	39	38	210	30	22-3	1	39	38	210	30	950					
900			25-9	30	25	244	31	30-0	32	27	226	27	30-8	30	28	27	31-4	33	25	207	20	31-8	33	20	27	33-0	34	23	222	26	32-7	40	38	198	20	22-3	1	39	38	210	30	22-3	1	39	38	210	30	900					
850			25-9	30	25	244	31	30-0	32	27	226	27	30-8	30	28	27	31-4	33	25	207	20	31-8	33	20	27	33-0	34	23	222	26	32-7	40	38	198	20	22-3	1	39	38	210	30	22-3	1	39	38	210	30	850					
800			55-9	21	12	248	33	60-5	13	11	238	27	61-2	15	12	27	62-0	21	17	220	25	62-5	22	18	27	63-5	26	21	238	30	64-0	33	21	220	33	35-6	33	30	26	235	37	37-6	37	30	27	221	32	800					
750			16	05	247	25	13	03	237	24	12	08	27	15	11	224	26	17	16	27	17	16	27	17	16	27	17	16	27	17	16	27	17	16	27	17	16	27	17	16	27	17	16	27	17	16	27	17	750				
700			53-7	09	01	245	28	34-1	06	3	240	30	34-8	08	14	27	35-8	09	06	239	27	36-4	12	08	27	38-1	14	10	242	47	38-7	19	11	234	35	38-7	19	11	234	35	38-7	19	11	234	35	38-7	19	11	234	35	700		
650			00	-8	245	33	-1	-12	235	28	03	13	27	03	-1	233	28	07	01	233	28	07	01	233	28	07	01	233	28	07	01	233	28	07	01	233	28	07	01	233	28	07	01	233	28	07	01	233	28	650			
600			131	-7	-15	252	33	132	-6	-24	237	27	133	-3	-46	32	134	-5	-11	235	27	135	01	-7	27	137	01	-3	234	42	137	01	-3	234	42	137	01	-3	234	42	137	01	-3	234	42	137	01	-3	234	42	600		
550			-16	-25	260	41	-13	-26	243	32	-11	-25	32	-12	-15	240	47	-8	-26	27	-8	-26	27	-8	-26	27	-8	-26	27	-8	-26	27	-8	-26	27	-8	-26	27	-8	-26	27	-8	-26	27	-8	-26	27	-8	-26	27	550		
500			175	-22	-34	263	51	175	-22	-34	263	51	175	-22	-34	263	51	175	-22	-34	263	51	175	-22	-34	263	51	175	-22	-34	263	51	175	-22	-34	263	51	175	-22	-34	263	51	175	-22	-34	263	51	175	-22	-34	263	51	500
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400			226	-44	259	68	227	-41	241	56	228	-38	244	54	228	-38	244	54	228	-38	244	54	228	-38	244	54	228	-38	244	54	228	-38	244	54	228	-38	244	54	228	-38	244	54	228	-38	244	54	228	-38	244	54	400		
350			-55	255	77	-55	238	43	-51	245	28	-53	245	28	-53	245	28	-53	245	28	-53	245	28	-53	245	28	-53	245	28	-53	245	28	-53	245	28	-53	245	28	-53	245	28	-53	245	28	-53	245	28	-53	245	28	350		
300			288	-67	258	81	289	-65	235	57	290	-67	235	57	290	-67	235	57	290	-67	235	57	290	-67	235	57	290	-67	235	57	290	-67	235	57	290	-67	235	57	290	-67	235	57	290	-67	235	57	290	-67	235	57	300		
250			-77	260	63	-81	238	55	-77	238	55	-77	238	55	-77	238	55	-77	238	55	-77	238	55	-77	238	55	-77	238	55	-77	238	55	-77	238	55	-77	238	55	-77	238	55	-77	238	55	-77	238	55	-77	238	55	250		
200			371	-67	258	43	372	-65	247	47	374	-67	247	47	374	-67	247	47	374	-67	247	47	374	-67	247	47	374	-67	247	47	374	-67	247	47	374	-67	247	47	374	-67	247	47	374	-67	247	47	374	-67	247	47	200		
170			-64	257	41	-65	258	51	-67	257	47	-67	257	47	-67	257	47	-67	257	47	-67	257	47	-67	257	47	-67	257	47	-67	257	47	-67	257	47	-67	257	47	-67	257	47	-67	257	47	-67	257	47	-67	257	47	170		
150			-65	254	35	-64	250	57	-67	250	57	-67	250	57	-67	250	57	-67	250	57	-67	250	57	-67	250	57	-67	250	57	-67	250	57	-67	250	57	-67	250	57	-67	250	57	-67	250	57	-67	250	57	-67	250	57	150		
130			-68	253	53	-65	260	54	-67	260	54	-67	260	54	-67	260	54	-67	260	54	-67	260	54	-67	260	54	-67	260	54	-67	260	54	-67	260	54	-67	260	54	-67	260	54	-67	260	54	-67	260	54	-67	260	54	130		
110			-70	251	60	-69	250	54	-70	250	54	-70	250	54	-70	250	54	-70	250	54	-70	250	54	-70	250	54	-70	250	54	-70	250	54	-70	250	54	-70	250	54	-70	250	54	-70	250	54	-70	250	54	-70	250	54	110		
100			516	-70	255	64	517	-71	249	53	515	-72	249	53	515	-72	249	53	515	-72	249	53	515	-72	249	53	515	-72	249	53	515	-72	249	53	515	-72	249	53	515	-72	249	53	515	-72	249	53	515	-72	249	53	100		
90			-71	255	64	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	90		
80			-73	255	64	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	-72	249	53	80		
70			(88)																																														70				
60																																																			60		
Isothermal			557-538 mb -16°			650-637 mb -1°			724-700 mb 8°			315-475 mb -21°			355-308 mb -68°			Inversion 258 mb-76°-150 mb -63°			Inversion 630 mb-72-637 mb 8°			Inversion 306 mb-66-300 mb -65°			Isothermal 371-705 mb 41°			Isothermal 850-825 mb 35°																							
Tropopause			I 263 mb -77° 31600'			I 255 mb -82° 32300'			I 243 mb -78° 33300'			I 258 mb -76° 32400'			N.R.			I 278 mb -71° 31100'			I 244 mb -75° 34200'			I 260 mb -68° 33700'			I 245 mb -70° 33600'																										
STATION			LERWICK			STORNOWAY			LEUCHARS			ALDERGROVE			LIVERPOOL			DOWNHAM MARKET			LARKHILL			CAMBORNE																													
Time			2100			2100			2100			2100			2100			2100			2100			2100																													
M.S.L.			1004.1			1003.3			1001.0			1002.6			1011.7			1011.7			1011.0			1005.4																													

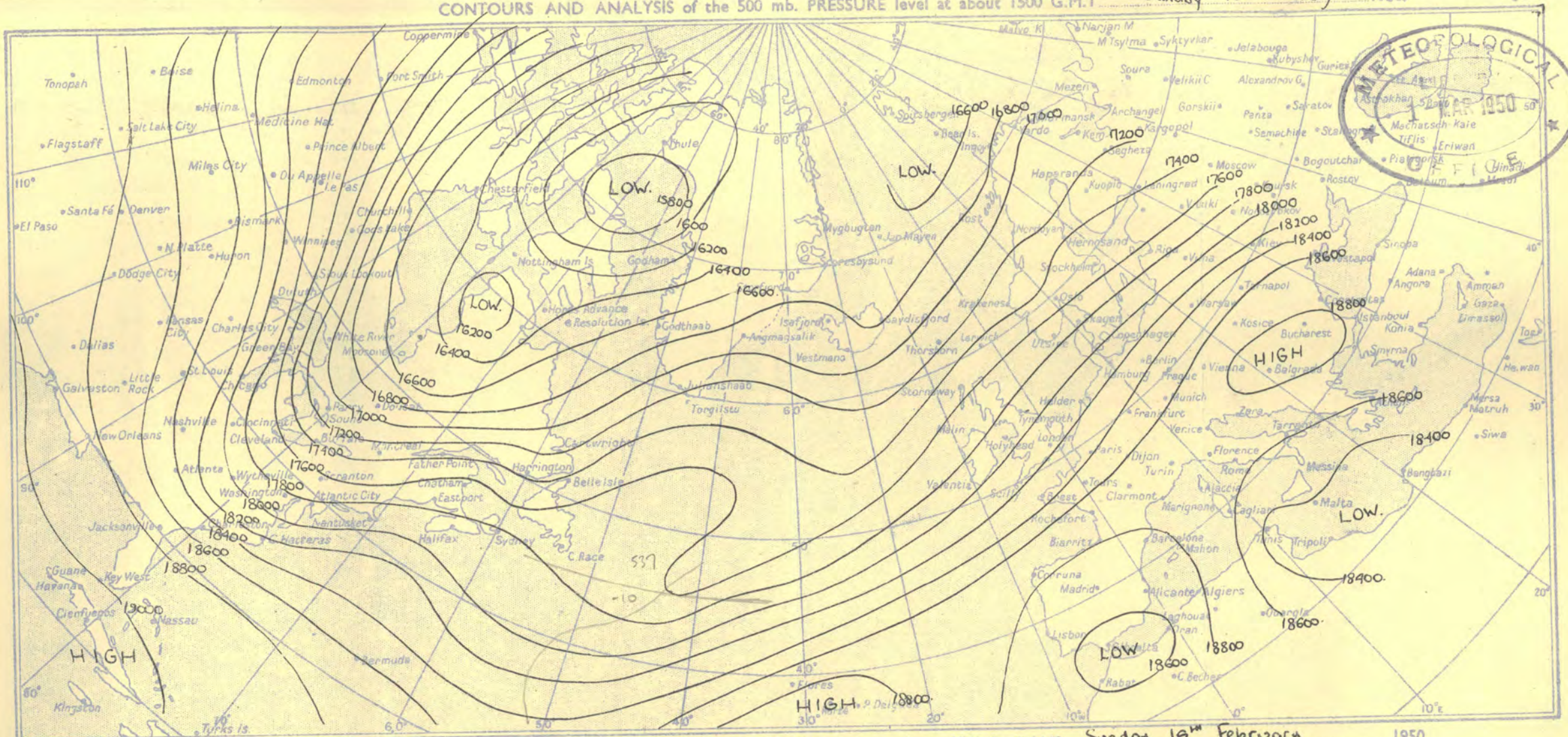


NOTES ON THE AEROLOGICAL SITUATION.

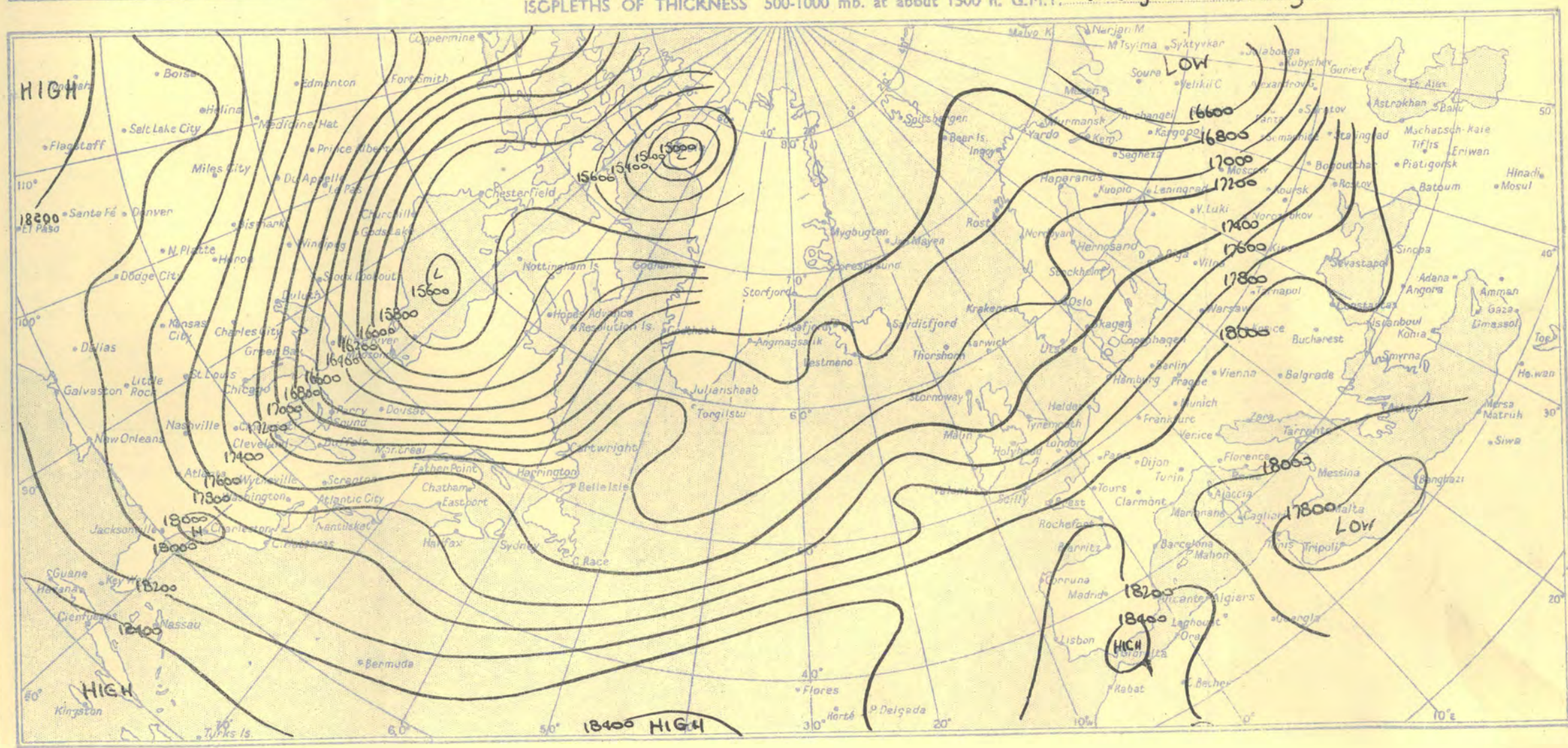
The warm ridge in the Eastern Atlantic split into two, the northern portion moving slowly to the North Sea and leaving the southern portion almost stationary. A tongue of warm air also extended rapidly from Newfoundland to Iceland. In consequence a broad irregular cold trough formed on the Northeastern Atlantic with a strong westerly thermal gradient about 50° N. latitude. The cold pool in the Central Mediterranean declined slightly.

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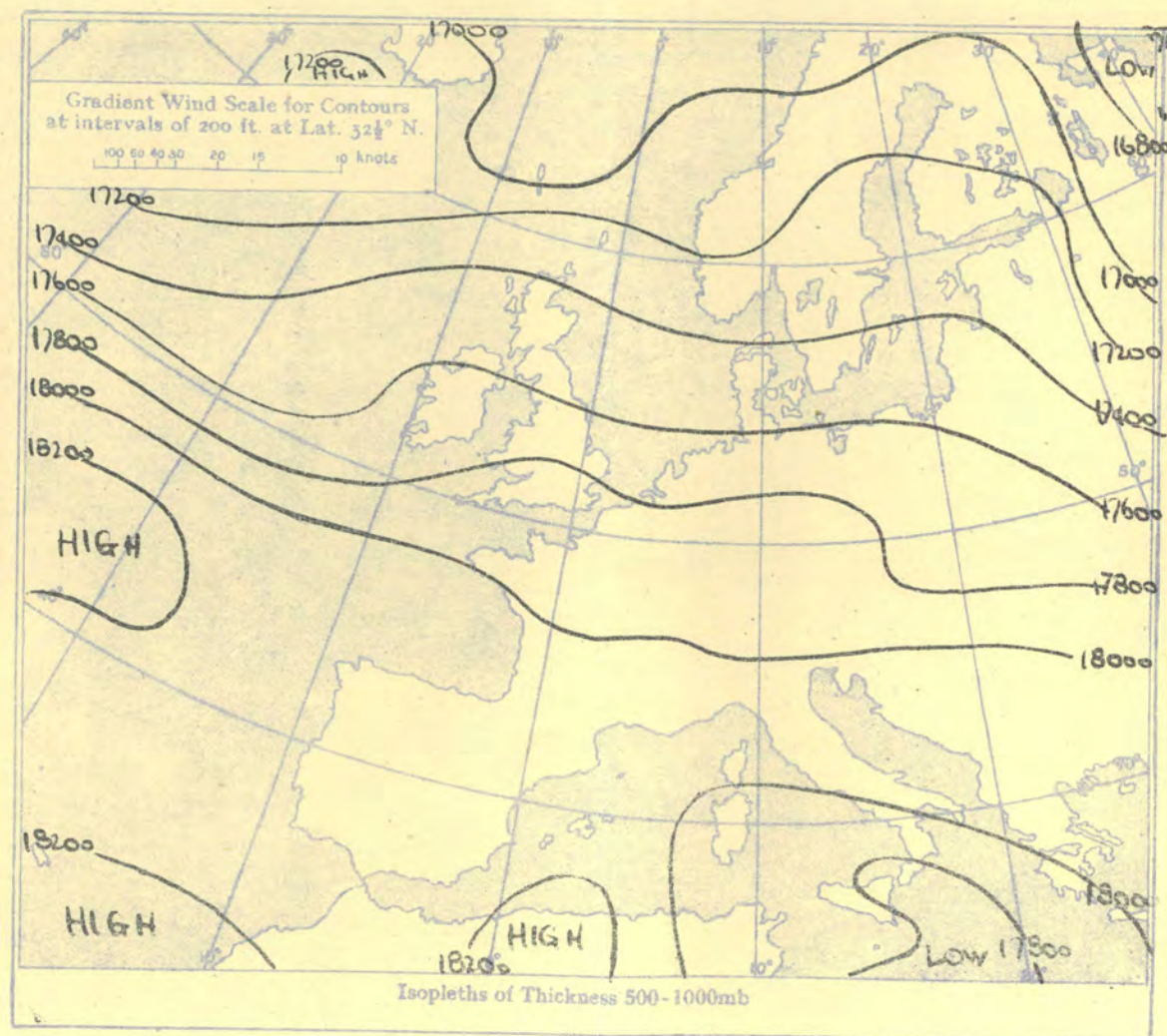
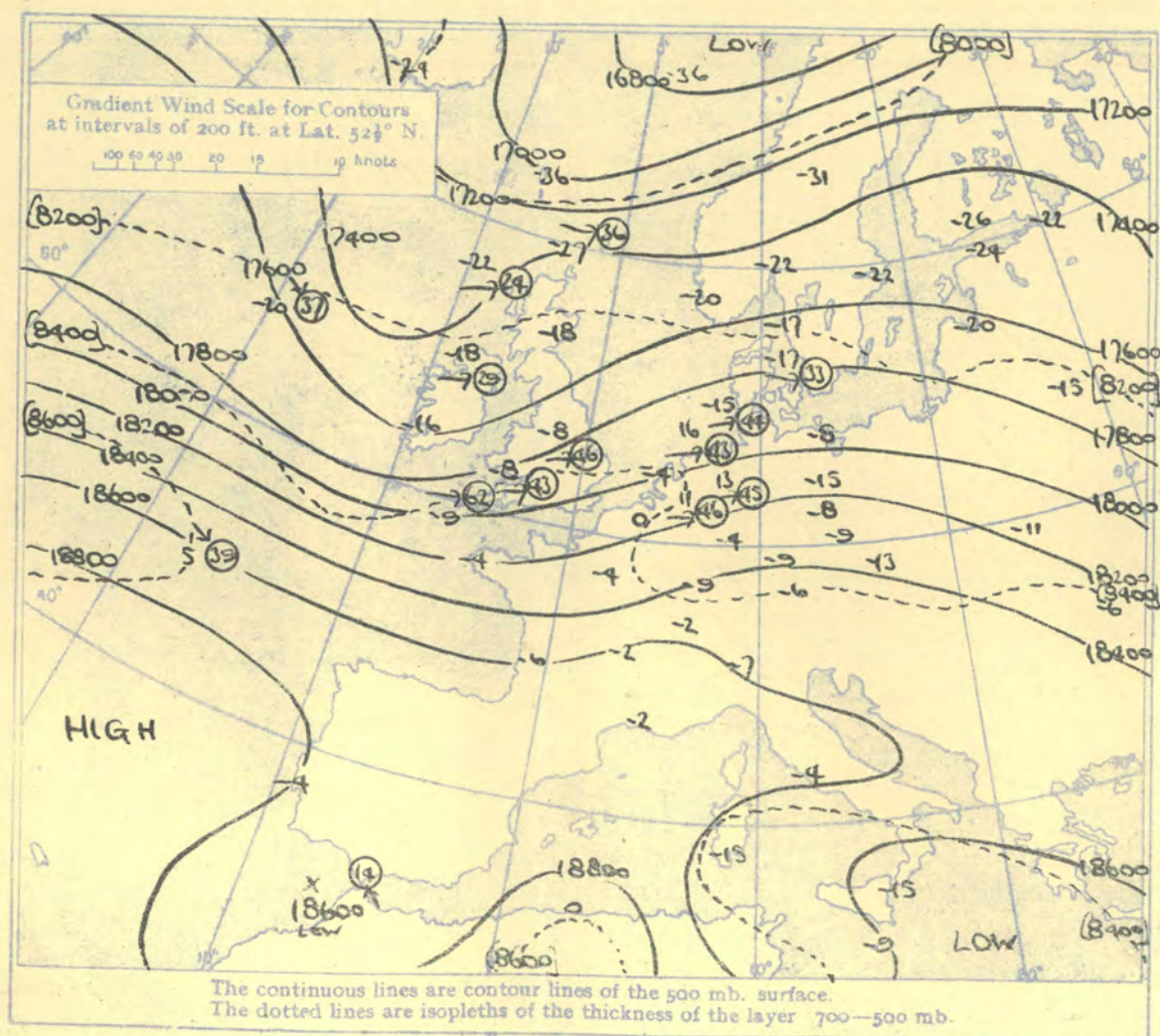
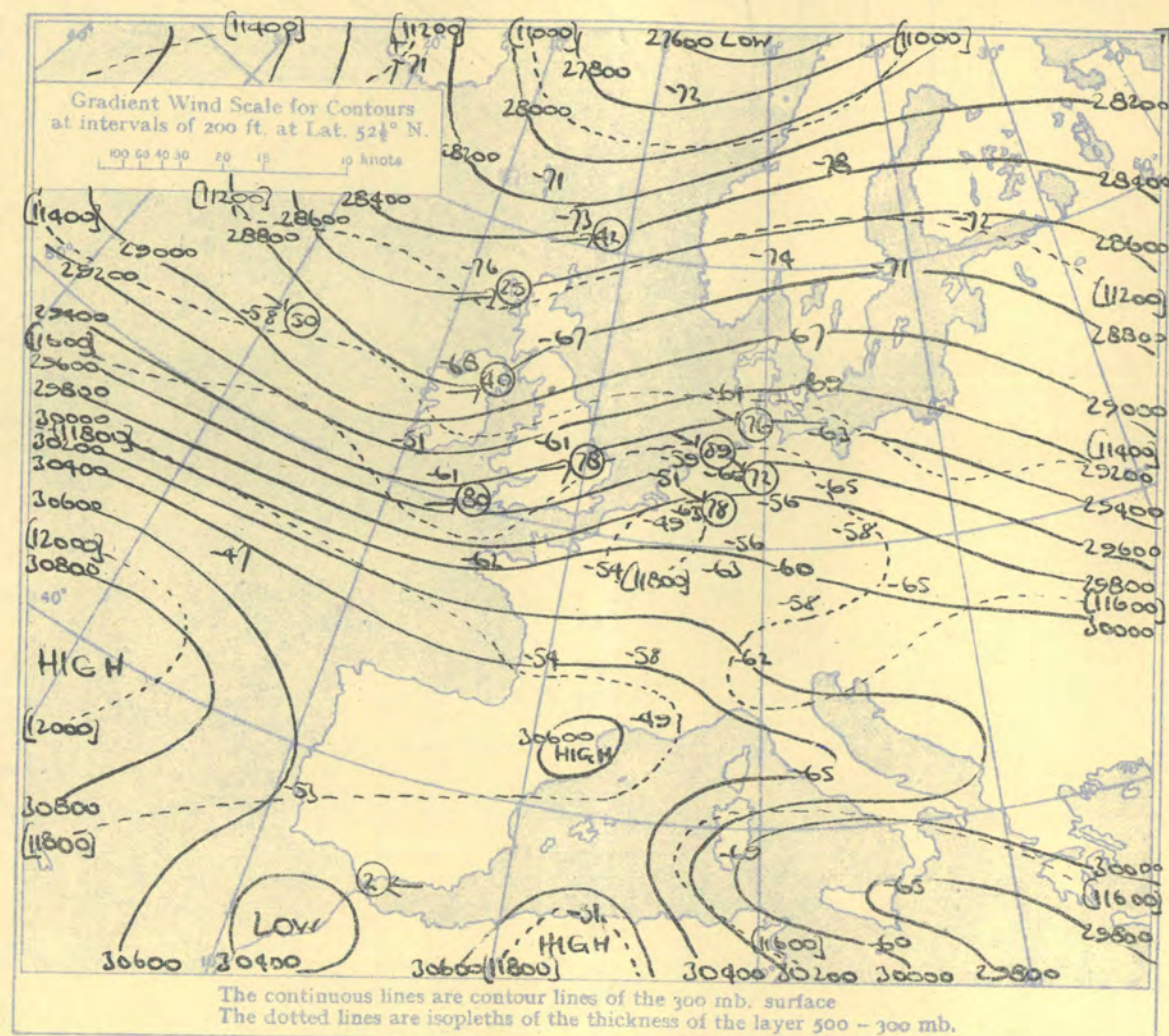
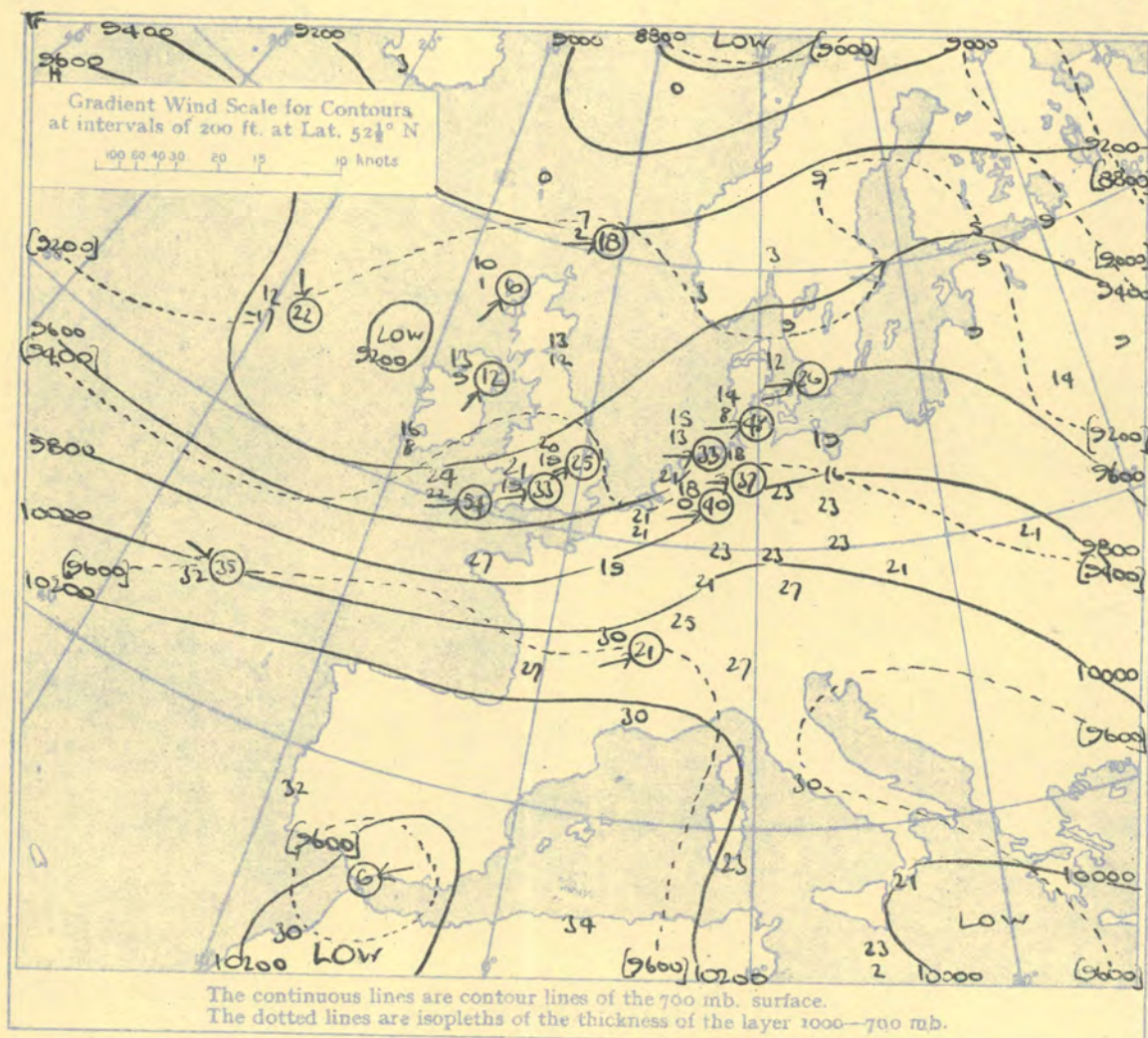
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Sunday 19th February 1950.



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 0300 G.M.T.



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY																				DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Time		482N20SW		495N14SW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

Monday 20th February 1950

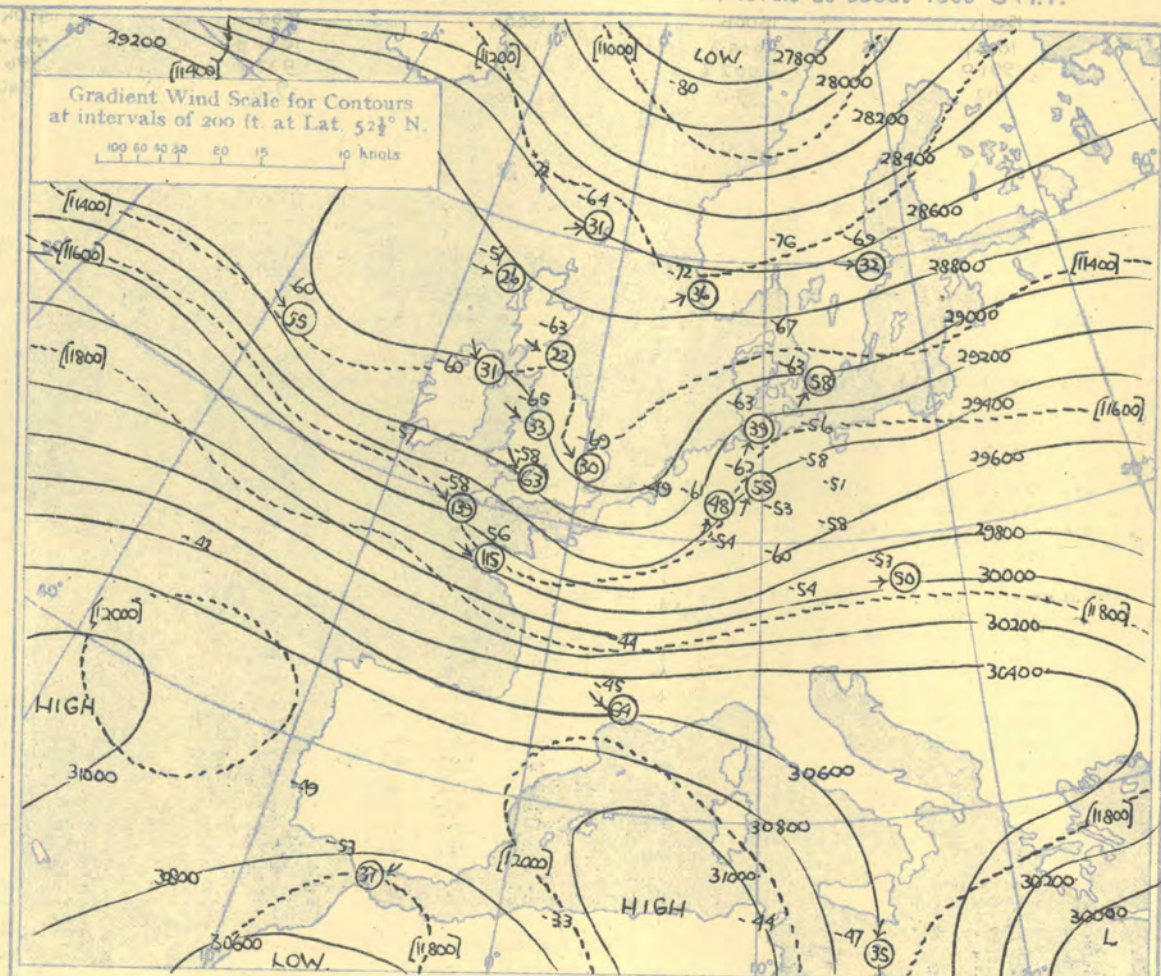
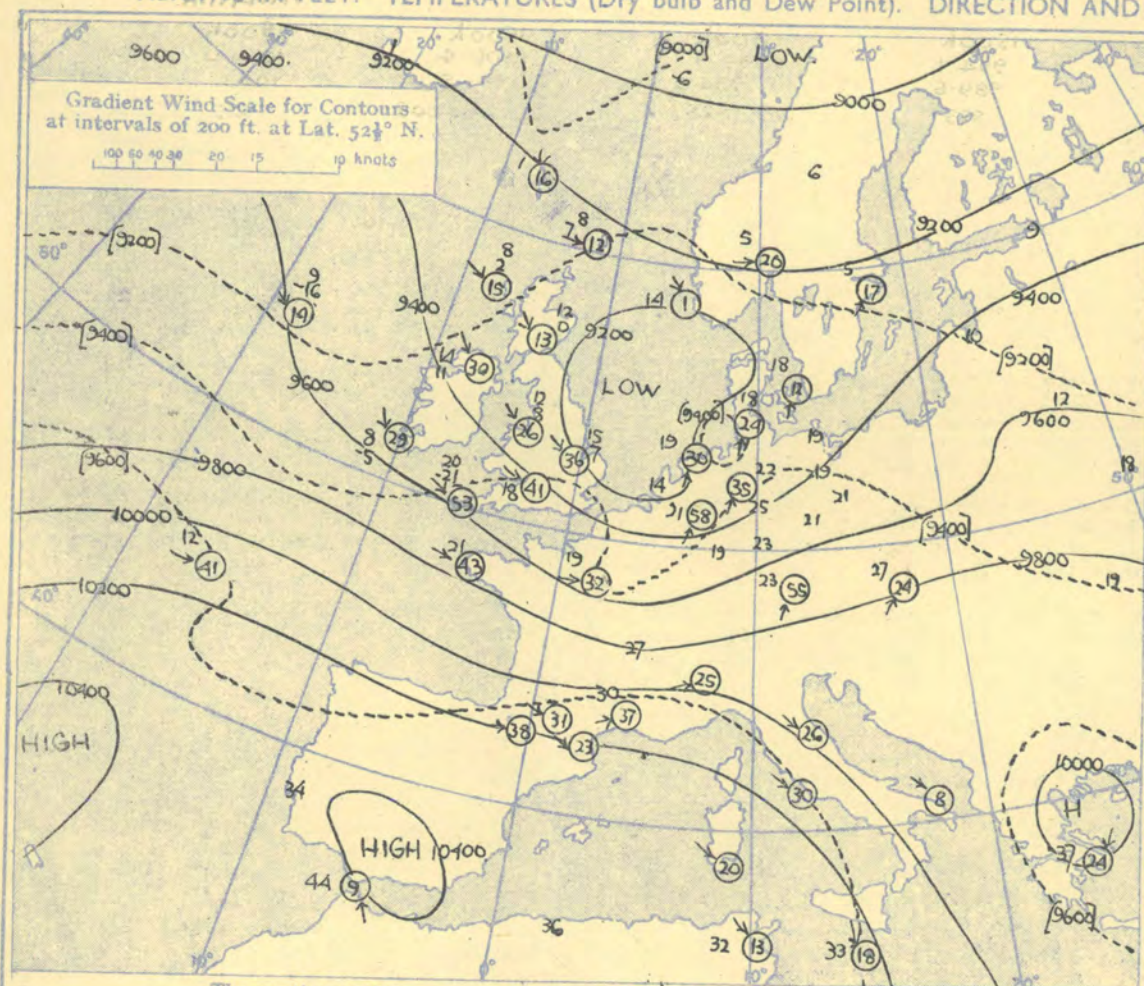
[illegible]

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

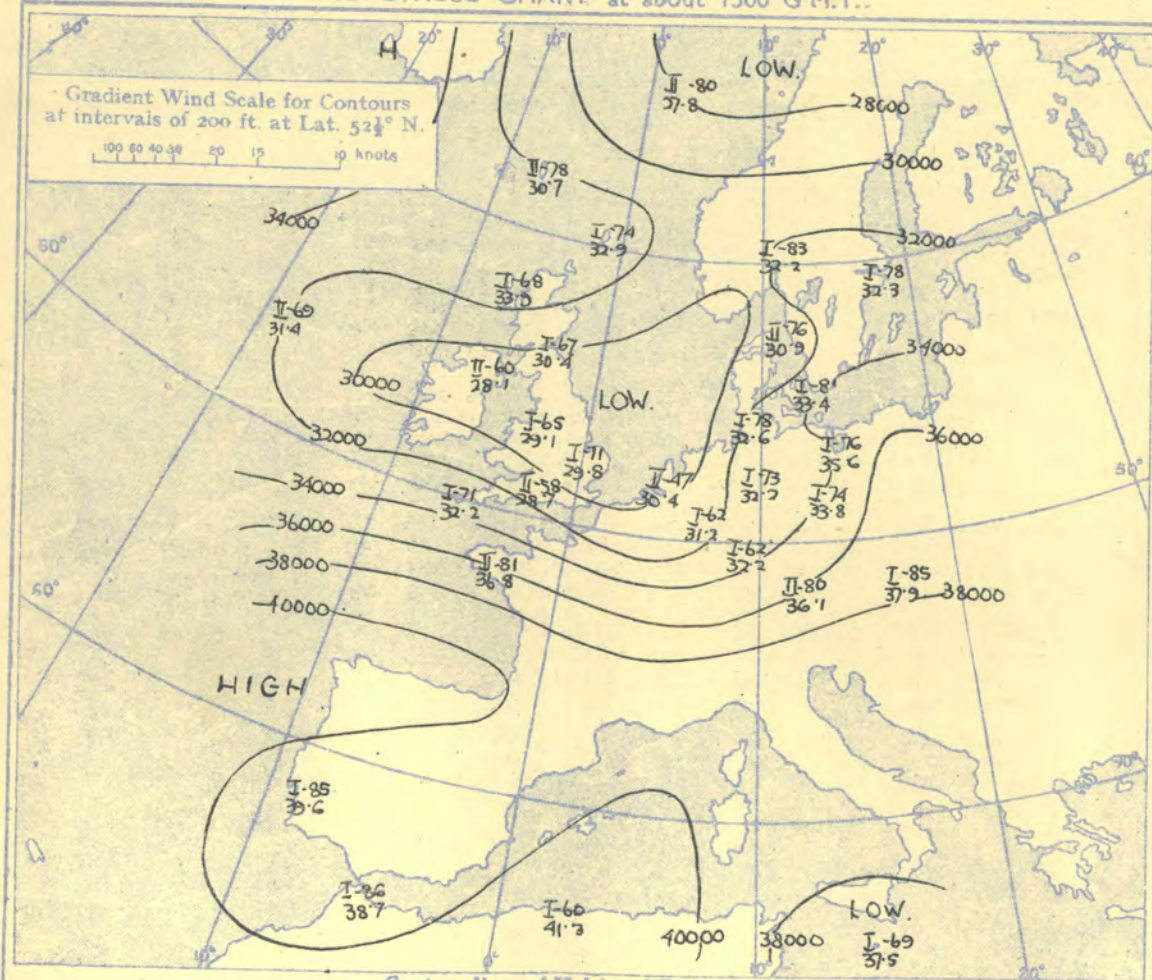
Monday 20th February 1951

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION													
Pressure mb	Time M.S.L.	1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		1500h.		G.M.T.		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	Surf	Freezing	Surf	Freezing																				
1000	02.7	39	36	248	06	00.5	43	29	350	10	00.2	44	37	360	09	02.3	45	37	355	15	00.6	46	43	315	15	01.2	44	44	280	10	04.4	49	45	280	20	02.9	52	49	270	15	00.3	47	43	320	19	Surf					
950	00.2	36	32	204	15	01.1	42	28	330	17	00.0	38	31	027	18	00.5	38	32	352	23	00.4	40	38	316	24	01.7	41	41	298	26	04.0	44	40	292	36	01.7	41	38	277	36	02.7	45	41	324	21	1000					
900	28.2	30	26	004	13	29.1	31	29	246	20	28.1	32	22	031	16	28.5	30	27	354	27	27.8	36	33	318	25	26.6	38	38	205	36	28.3	38	35	295	38	30.0	37	29	286	30	30.9	31	30	332	31	950					
850		25	21	359	17		24	22	346	17		27	19	017	14		30	25	257	27		33	29	313	25		34	33	315	37		34	29	302	35		33	29	288	35		26	24	329	29	900					
800	58.6	19	17	338	14	59.5	19	16	337	14	58.8	22	14	009	16	59.3	26	18	345	20	58.7	26	24	309	28	57.7	28	27	316	33	59.5	29	24	301	33	61.1	32	22	289	41	61.5	20	16	315	29	800					
750		14	13	310	09		13	07	307	13		17	09	354	16		20	13	325	21		23	19	308	28		22	17	315	37		24	17	294	36		27	00	288	48		14	8	307	28	750					
700	92.3	08	07	279	12	93.0	08	02	285	15	92.7	12	00	340	13	93.5	14	11	324	20	93.0	16	08	309	26	91.9	15	07	313	36	93.9	18	04	292	41	95.7	20	21	285	53	95.2	8	5	295	29	700					
650		00	01	256	21		00	2	260	17		06	07	328	10		03	319	29		07	02	303	29		10	06	321	34		11	04	292	42		70	32	283	60		3	27	287	42	650						
600	130	08	10	249	25	131	7	19	259	22	131	02	14	317	15	132	03	04	302	25	132	05	08	298	30	13.1	4	1	317	33	133	05	17	288	44	134	04	36	280	60	1333	4	56	287	48	600					
550		16	18	252	27		13	29	259	31		12	23	345	18		08	15	303	21		02	18	284	30		4	10	320	33		03	26	285	44		5	44	280	66		11		286	53	550					
500		173	24	32	258	34	174	21	37	258	32	175	18	29	316	15	176	18	23	301	21	176	11	31	283	30	175	14	21	321	33	177	14	35	283	42	179	14	48	282	71	1769	19	60	288	66	500				
450		32	42	255	44		31	46	248	28		28	39	322	15		29	34	286	24		24	43	288	29		26	34	318	30		25	45	280	39		24	43	285	78		25	282	61	450						
400	224	43	251	40	225	41	251	27	226	40	52	319	19	227	40	50	280	25	22.8	37	55	288	29	226	59	46	306	30	229	39	57	275	44	231	30	43	281	108	2286	35		288	81	400							
350		55	251	26	262	27	262	27	262	27	51	308	21	50	280	42		50	280	42		50	280	28		53	285	25		52	280	56		43	286	134		47	287	102		287	102	350							
300	286	64	258	31	28.8	57	265	26	288	63	275	22	290	60	293	31	291	65	280	33	289	69	292	30	291	68	285	63	294	58	285	139	2918	57									300								
250		73	266	30	275	67	275	30	288	64	282	28	290	62	294	45	291	66	282	46	289	74	292	30	291	69	285	63	294	58	285	139	2918	57									250								
200	371	64	273	33	374	63	281	34	374	60	281	39	376	59	285	46	378	54	282	49	374	63	282	51	378	59	286	60	380	62													200								
170		67	275	42	277	43	277	43	278	43	57	278	43	59	286	50	53	290	45	53	290	45	53	290	45	53	290	45	53	290	45													170							
150		67	278	39	279	45	279	45	279	45	57	279	45	59	286	47	57	290	45	57	290	45	57	290	45	57	290	45	57	290	45													150							
130		67	277	42	280	45	280	45	280	45	57	280	45	59	286	47	57	290	45	57	290	45	57	290	45	57	290	45	57	290	45													130							
110		73	271	51	280	45	280	45	280	45	57	280	45	59	286	47	57	290	45	57	290	45	57	290	45	57	290	45	57	290	45													110							
100	515	75	270	52	280	45	280	45	280	45	57	280	45	59	286	47	57	290	45	57	290	45	57	290	45	57	290	45	57	290	45													100							
90		79	275	60	280	45	280	45	280	45	57	280	45	59	286	47	57	290	45	57	290	45	57	290	45	57	290	45	57	290	45													90							
80		81	279	61	280	45	280	45	280	45	57	280	45	59	286	47	57	290	45	57	290	45	57	290	45	57	290	45	57	290	45													80							
70		82	280	61	280	45	280	45	280	45	57	280	45	59	286	47	57	290	45	57	290	45	57	290	45	57	290	45	57	290	45													70							
60	(62)	82			280	45	280	45	280	45	57	280	45	59	286	47	57	290	45	57	290	45	57	290	45	57	290	45	57	290	45														60						
		Isothermal 991.5-980.0 39° 273.2-259.7 -70°								Isothermal 755-740.0 17°								Inversion 900-875.0 30-32° Isothermal 695-680.0 13°								Inversion 650.0 7°-638.0 10° Isothermal 800-772.0 26°								Isothermal 700mb-689mb 16°								Inversion 840mb 32°-820 34° Isothermal 420mb 30°-400mb 30°				Isothermal 688mb-669mb. 6°					
Tropopause		I 243mb-74° 32,900'				I 237mb-68° 33,900'				I 280mb-67° 30,400'				II 313mb-60° 28,100'				I 300mb-65° 29,100'				I 287mb-71° 29,800'				II 306mb-58° 28,100'				I 263mb-71° 32,200'				N.R.				Tropopause													
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION													
Pressure mb	Time M.S.L.	2100h.		G.M.T.		2100h.		G.M.T.		2100h.		G.M.T.		2100h.		G.M.T.		2100h.		G.M.T.		2100h.		G.M.T.		2100h.		G.M.T.		2100h.		G.M.T.		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	Surf	Freezing	Surf	Freezing																				
1000	02.7	34	31	337	10	00.5	35	32	330	05				02.3	42	38	344	11					01.2	44	41	260	13	04.4	45	43	290	12	02.9	48	42	295	20					Surf									
950	01.5	36	31	360	20	2.7	37	33	330					02.3	37	33	345	24					00.5	42	38	303	30	1.5	43	41	290	24	02.8	49	42	298	31					950									
900	29.3	30	27	007	20	30.6	28	24	349	16				30.2	32	28	346	22					28.7	36	31	313	28	29.8	38	34	294	27	31.1	34	30	310	33					900									
850		24	19	001	18		22	18	355	18					27	23	347	21						31	26	311	28		32	29	297	29		29	25	306	37					850									
800	59.7	19	09	356	17	60.8	16	10	358	20				60.8	21	19	340	20					59.5	26	18	311	29	60.5	26	23	299	29	61.9	24	15	302	37					800									
750		14	03	356	18		10	01	001	20				16	12	326	18						19	10	305	33		19	16	300	32		17	05	298	41					750										
700	93.3	06	05	354	15	94.2	03	11	358	20				94.6	10	06	203	17					93.6	13	04	299	33	94.7	13	09	299	32	95.9	15	42	291	45					700									
650		03	13	351	15		5	11	352	17					04	00	287	19						06	06	300	30		08	02	295	30		09	43	284	54					650									
600	31	10	18	343	18	132	10	29	353	18				133	03	12	282	22																																	

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

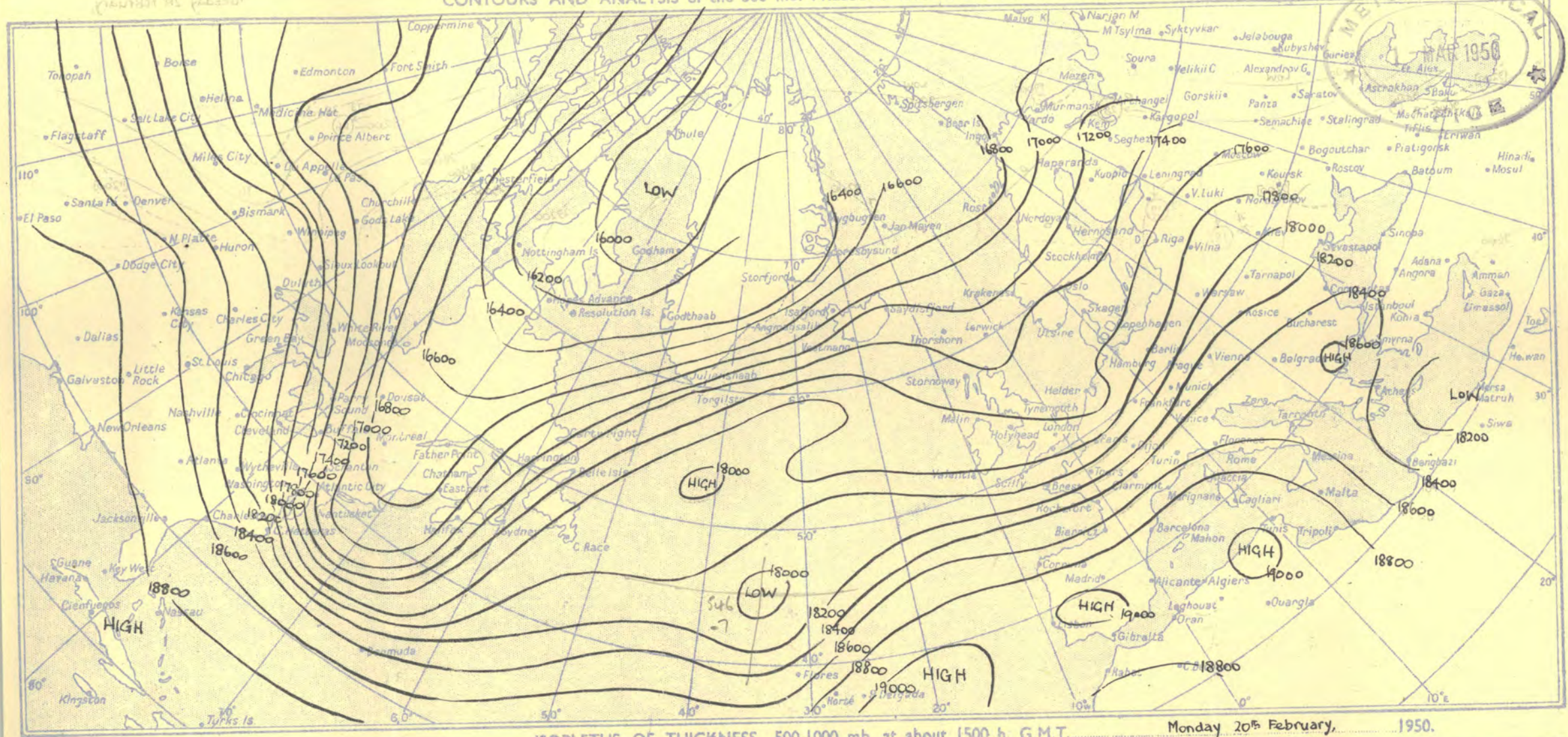


NOTES ON THE AEROLOGICAL SITUATION.

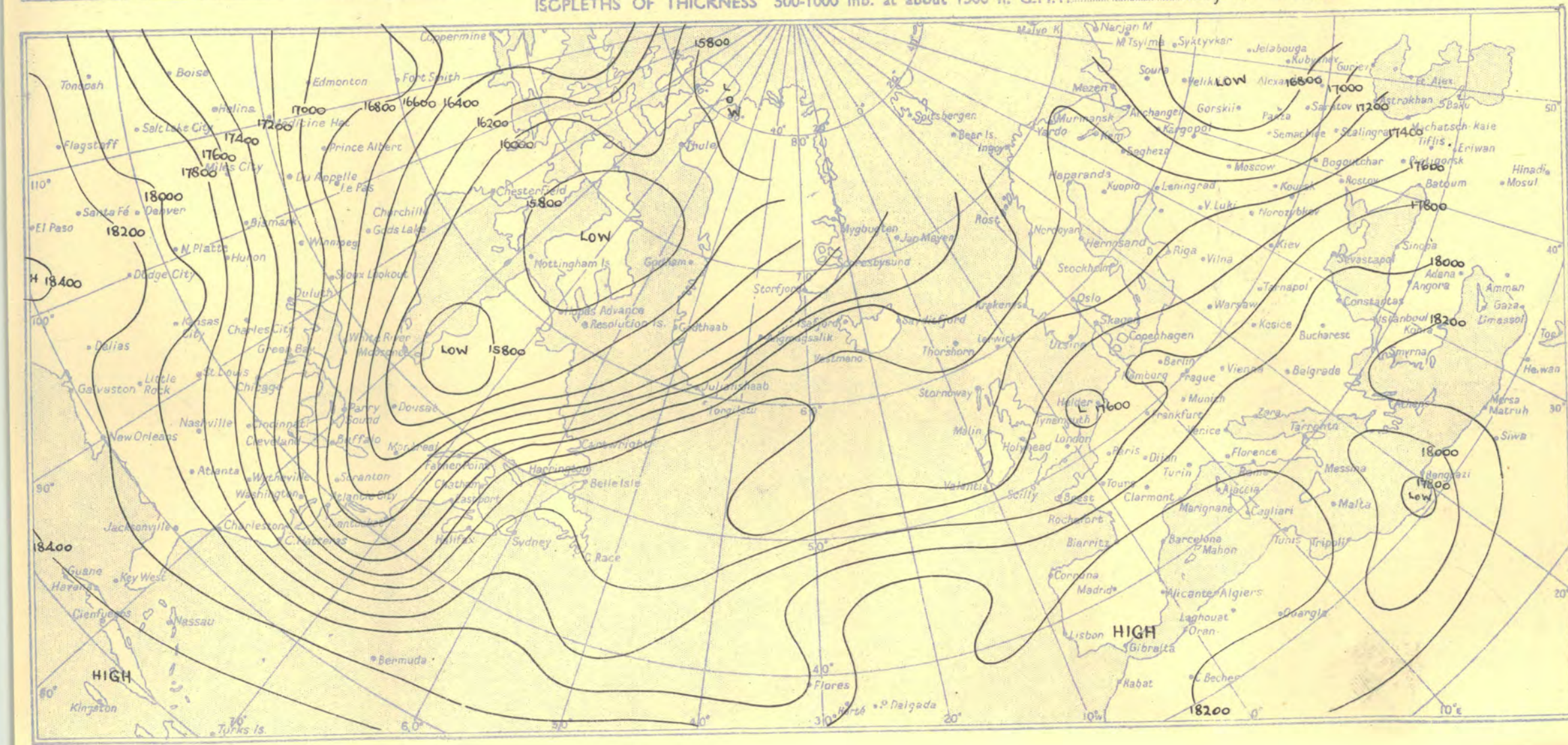
The broad cold trough on the Northern Atlantic sharpened rapidly from the West and extended over Britain. A further trough formed on the Central Atlantic and cold air flooded the Northern Atlantic from the Greenland area. The cold pool in the Central Mediterranean filled considerably.

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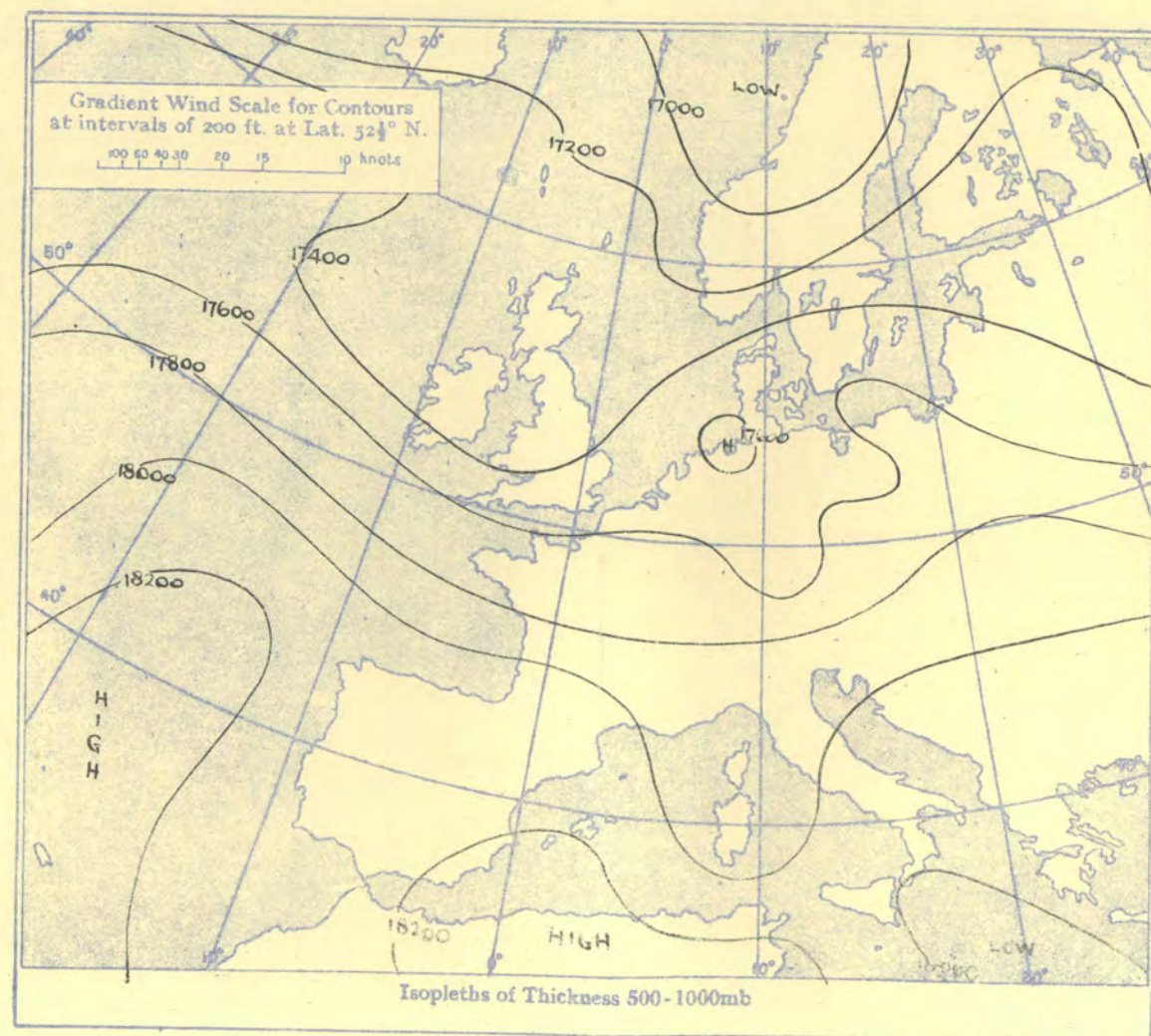
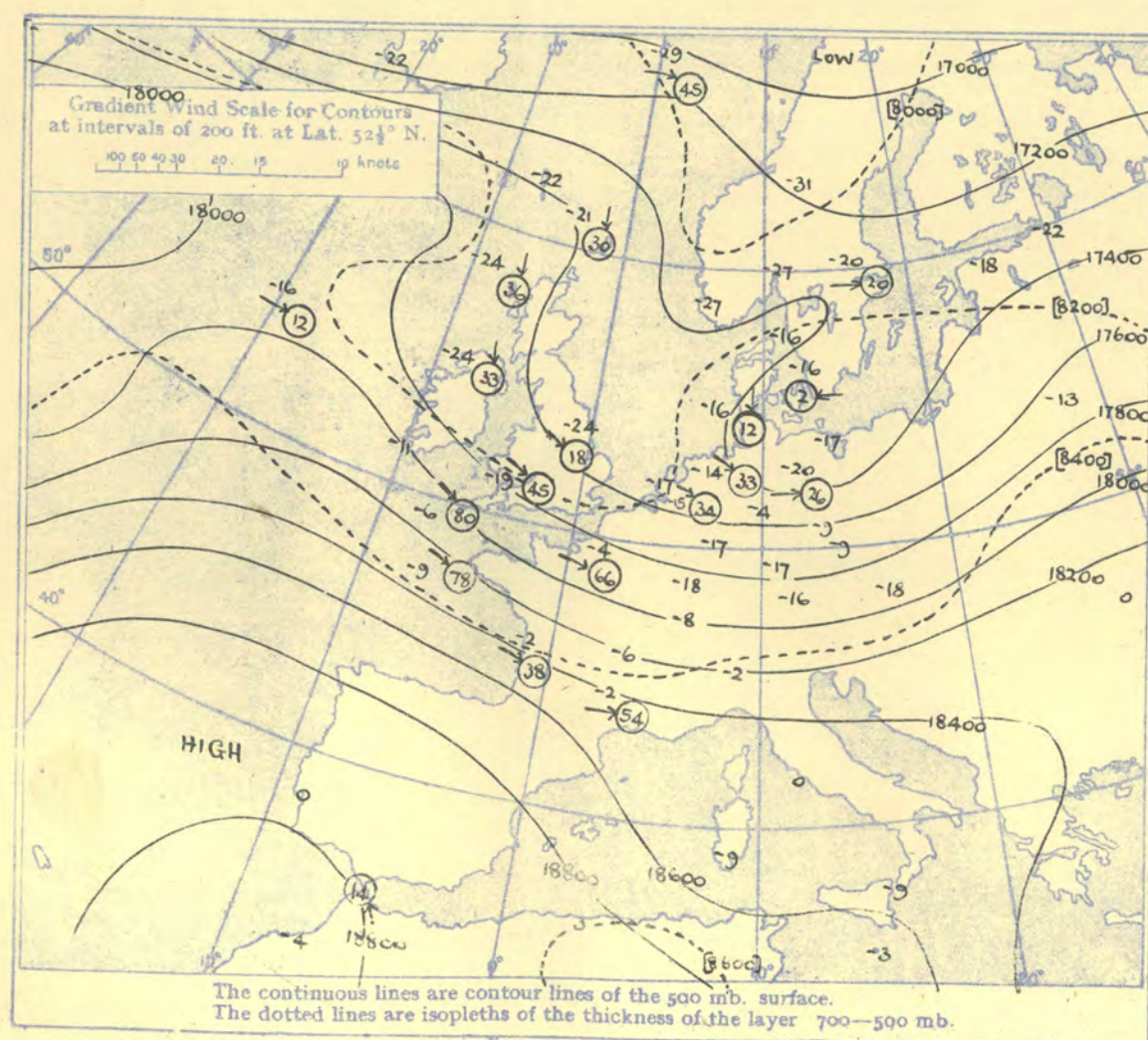
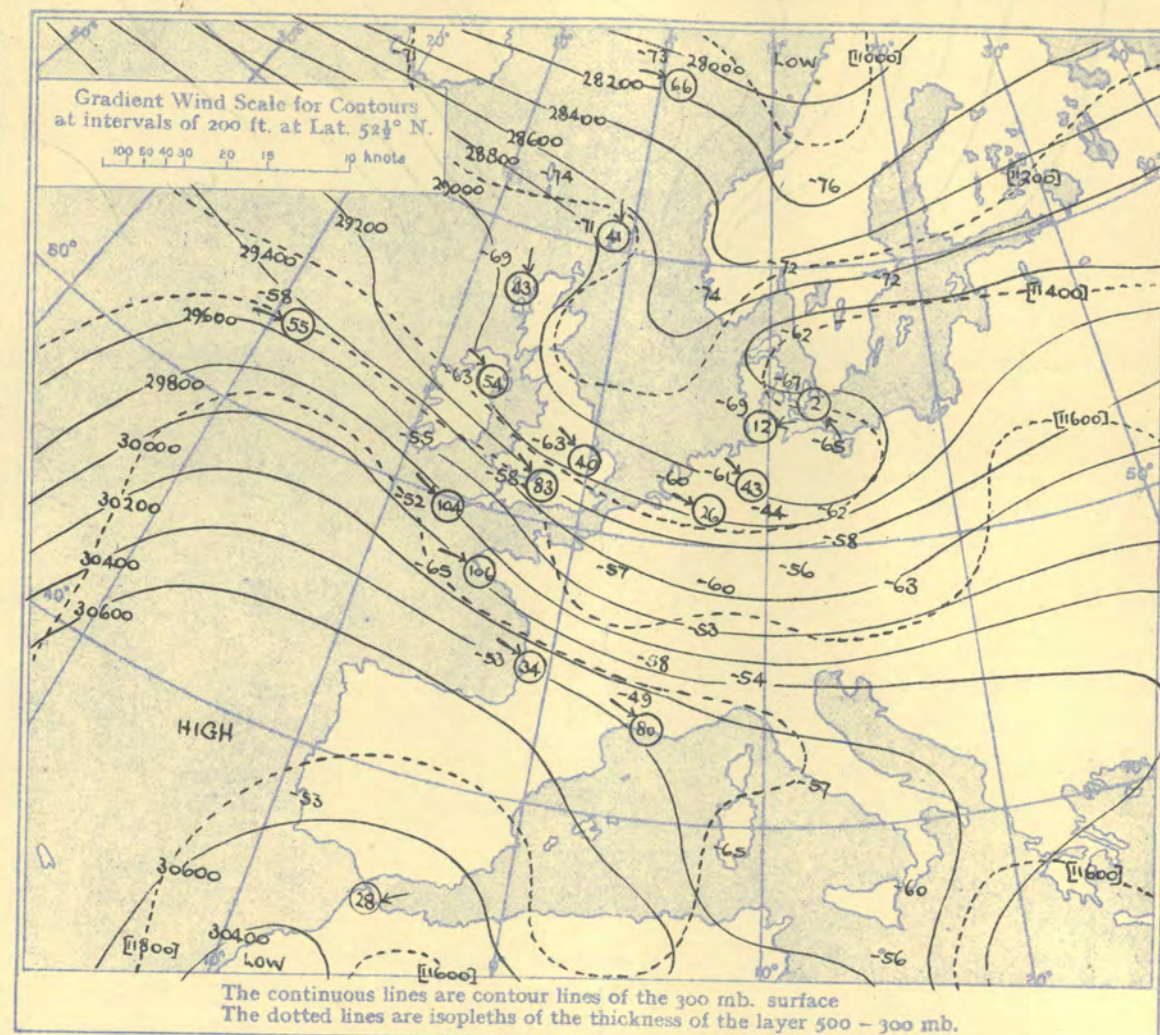
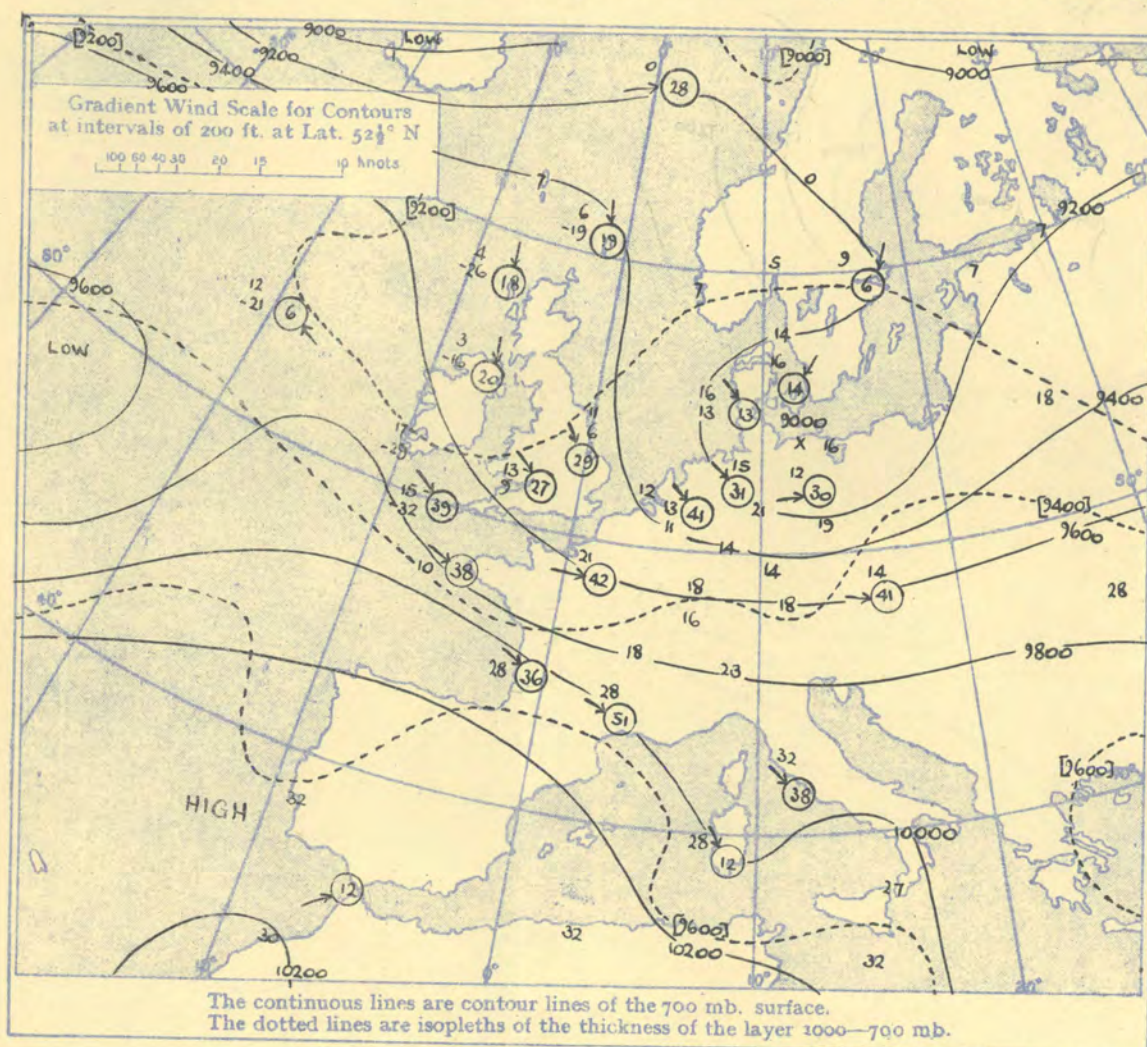
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Monday 20th February, 1950.



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 0300 G.M.T.



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

Tuesday 25th February 1950

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION									
Time M.S.L. Surf Freezing	Pressure mb	0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		0300h		G.M.T.		Time M.S.L. Surf Freezing													
		1009.6		mb		1014.9		mb		1015.0		mb		1016.0		mb		1008.5		mb		1008.8		mb		1006.1		mb		1013.5		mb															
		999.4		mb		999.4		mb		999.4		mb		999.4		mb		999.4		mb		999.4		mb		999.4		mb		999.4		mb															
931										930								900				875				880				910																	
Height ft./100	Temp. °F.	Dew °F.	Wind Dir.	Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir.	Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir.	Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir.	Vel. knots	Height ft./100	Temp. °F.	Dew °F.	Wind Dir.	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	29	337	10	00.5	34	31	330	08					02.3	35	31	348	08						01.2	40	38	310	11	04.4	42	40	325	10	02.9	46	42	295	10	00.3	40	34					
1000	2.5					3.9	36	31							3.9	36	31								2.2					1.6					3.6	46	42			4.9	41	34	Surf				
950		35	28	340	20		31	28	002	15						35	26	349	21								37	33	329	25		39	36	323	21		40	37	311	18		37	29	1000			
900	30.3	28	23	346	18	31.6	25	22	355	15					31.7	28	21	349	24						30.2	32	24	343	26	29.7	35	33	329	21	31.7	34	31	312	18	32.9	30	24	950				
850		22	14	343	18		19	12	357	13						22	13	350	25								26	22	342	25		29	27	330	20		28	26	307	22		24	13	900			
800	60.6	19	02	337	18	61.7	14	00	352	14					62.0	16	04	351	24						60.8	20	18	330	29	60.5	24	22	321	21	62.4	22	14	303	28	63.3	19	01	850				
																																											800				
750		12	-10	338	18		08	-14	354	16						09	-06	350	21								17	10	315	34		19	17	310	25		20	-15	300	33		20	-08	750			
700	94.2	06	-19	352	19	95.0	04	-26	001	18					95.4	03	-16	351	20						94.6	11	06	313	29	94.5	13	09	308	27	96.4	15	-32	294	39	97.4	17	-29	700				
650		01	-28	005	23		04	-33	010	27						04	-28	349	19								05	-03	306	25		06	-02	303	28		10	-40	288	43		11	-37	650			
600	132	04	-31	005	29	133	04	-40	011	30					133	08	-38	344	22						133	02	-14	308	28	133	-02	-18	297	31	135	05	-46	288	51	136	-05	-47	600				
550		-10	-36	002	30		-14	-44	004	35						-15	-44	347	29								-13	-25	207	24		-10	-34	293	36		-02	-57	287	66		-04	-58	550			
500	176	-21	-44	002	30	176	-24	-49	358	36	NOT AVAILABLE				176	-25	-53	356	33									-24	-33	295	18	177	-19	-41	291	48	180	-06	-42	289	80	181	-11		500		
450		-33	-54	360	35		-33	-56	360	33						-34	-57	001	42									-35	-49	282	22		-26	-57	291	60		-14	-36	287	90		-18		450		
400	227	-44		356	40	227	-44		358	37					227	-42		354	52									-44		273	31	228	-36	-60	294	67	233	-25	-49	290	96	233	-27		400		
350		-57		001	44		-56		002	40						-52		343	51									-54		282	35		-47		294	76		-38	-57	290	103		-40		350		
300	288	-71		360	41	289	-69		001	43					289	-63		333	50											290	40	291	-58		292	83	297	-52		291	104	297	-55		300		
250		-83		338	33		-81		349	37						-71		320	52												287	50		-65		292	74		-68		295	108		-70		250	
200	371	-71		302	32	372	-73		307	39					374	-65		305	34												292	57	377	-63		292	65	382	-69		-67		381	-76		200	
170		-71		292	37		-71		297	39						-69		303	43																										170		
150		-73		285	29		-70		291	44						-71		300	45																										150		
130		-74		281	48		-72		290	41						-70		295	47																										130		
110		-78		279	48		-74		332	37						-73		286	52																										110		
100	513	-82		278	48	515	-75								518	-75																												100			
90		-82		282	51		-78									-78																												90			
80		-85		292	53		-82									-77																												80			
70		-89					-85									-77																											70				
60							-87																																					60			

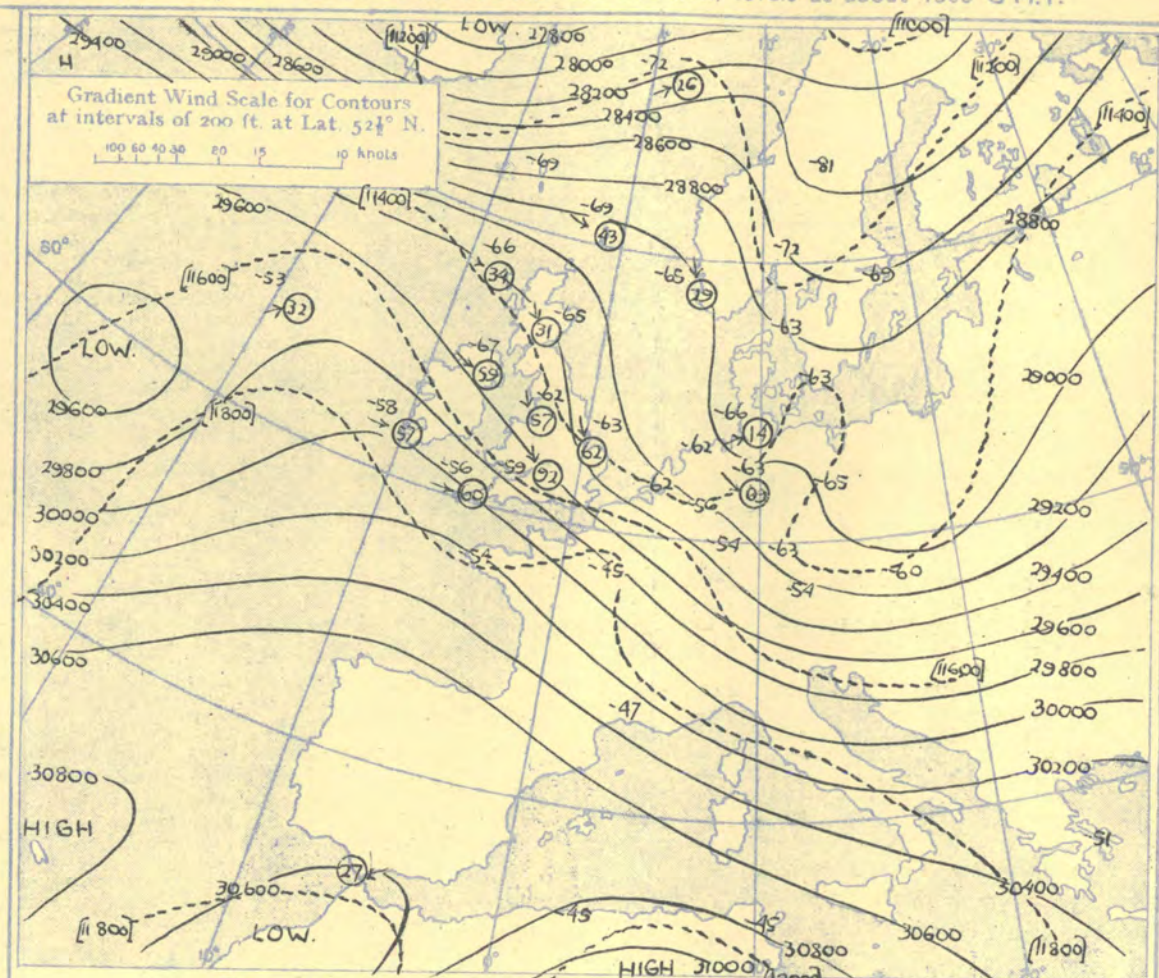
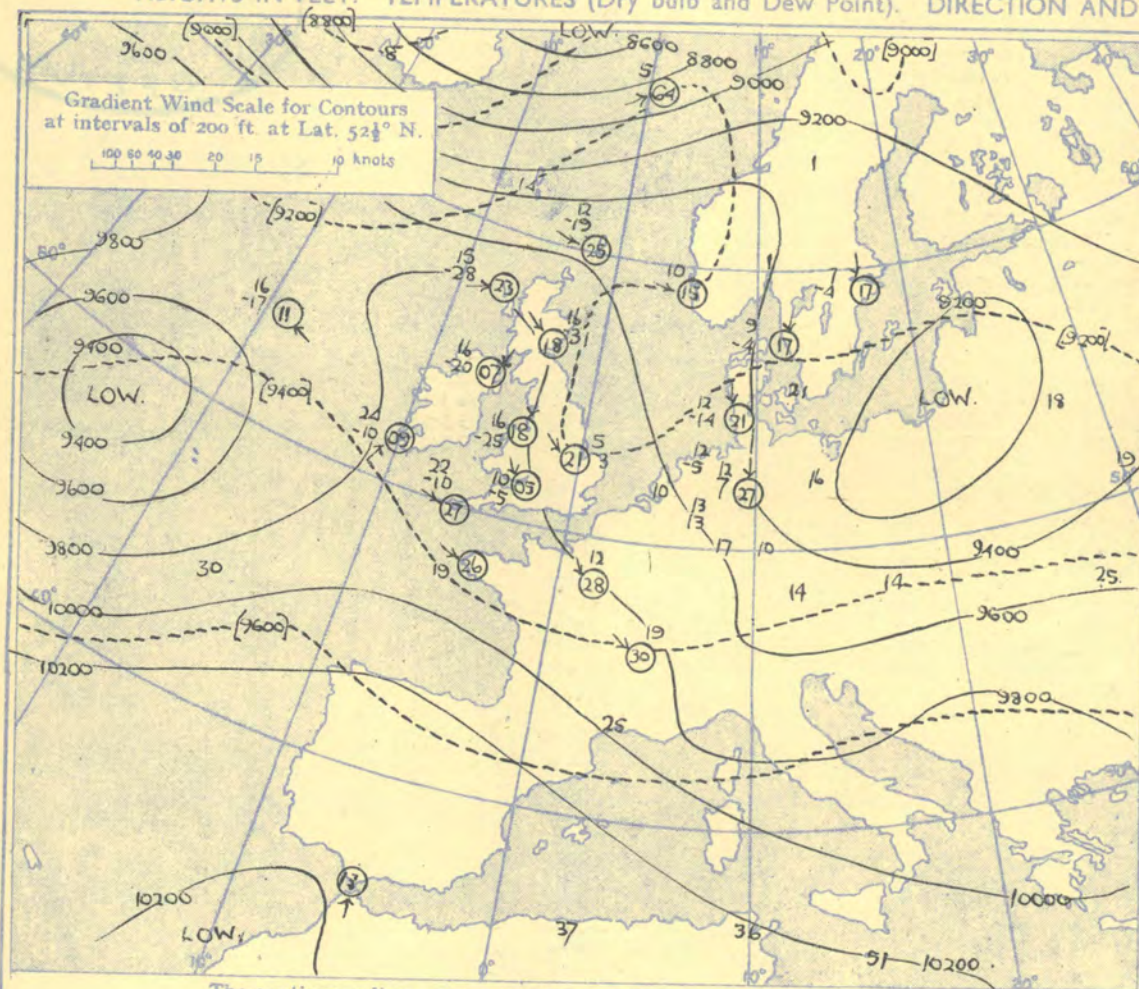
21st February 1950

1500
1018
916

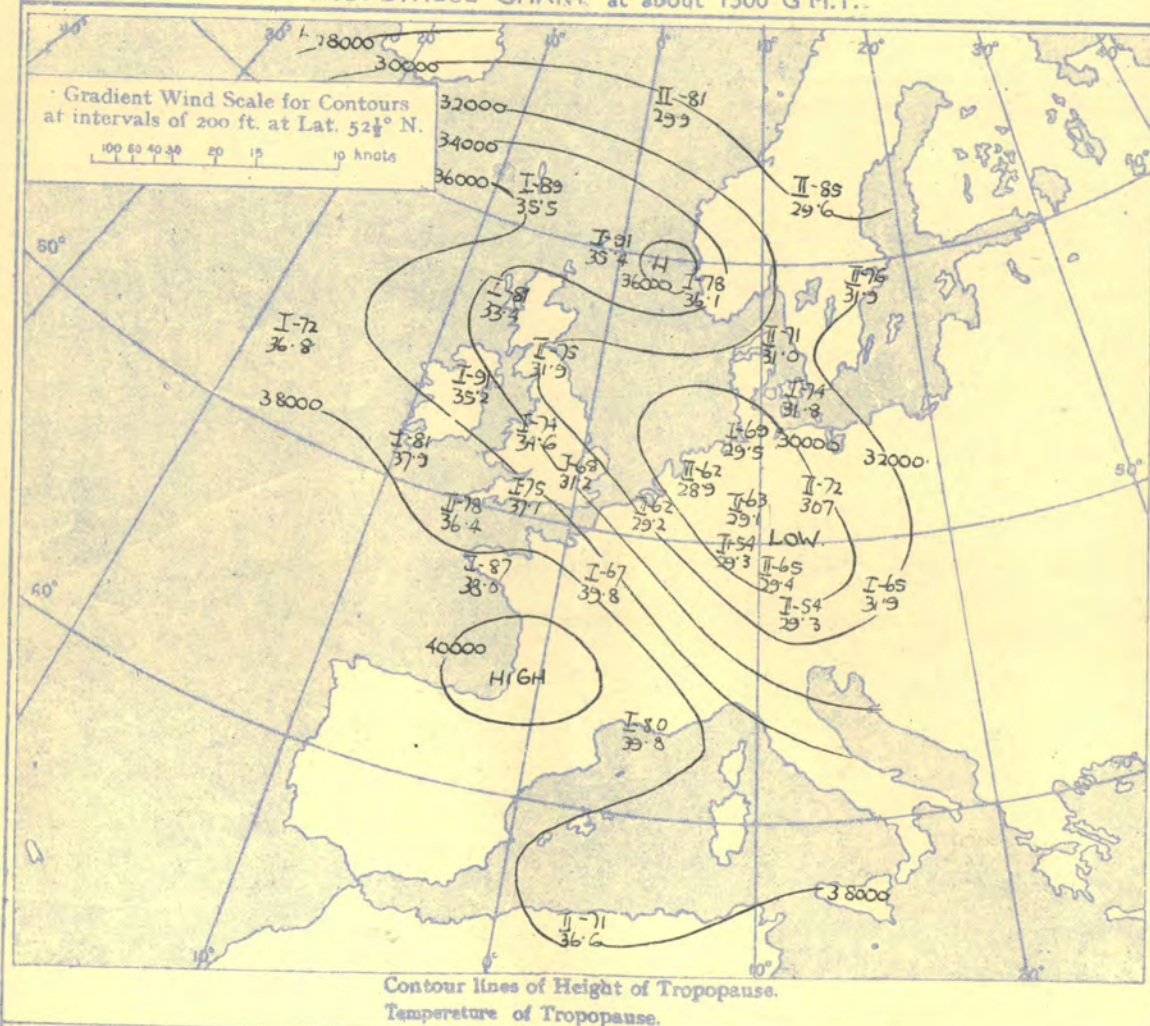
Valenja

OFFICE

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

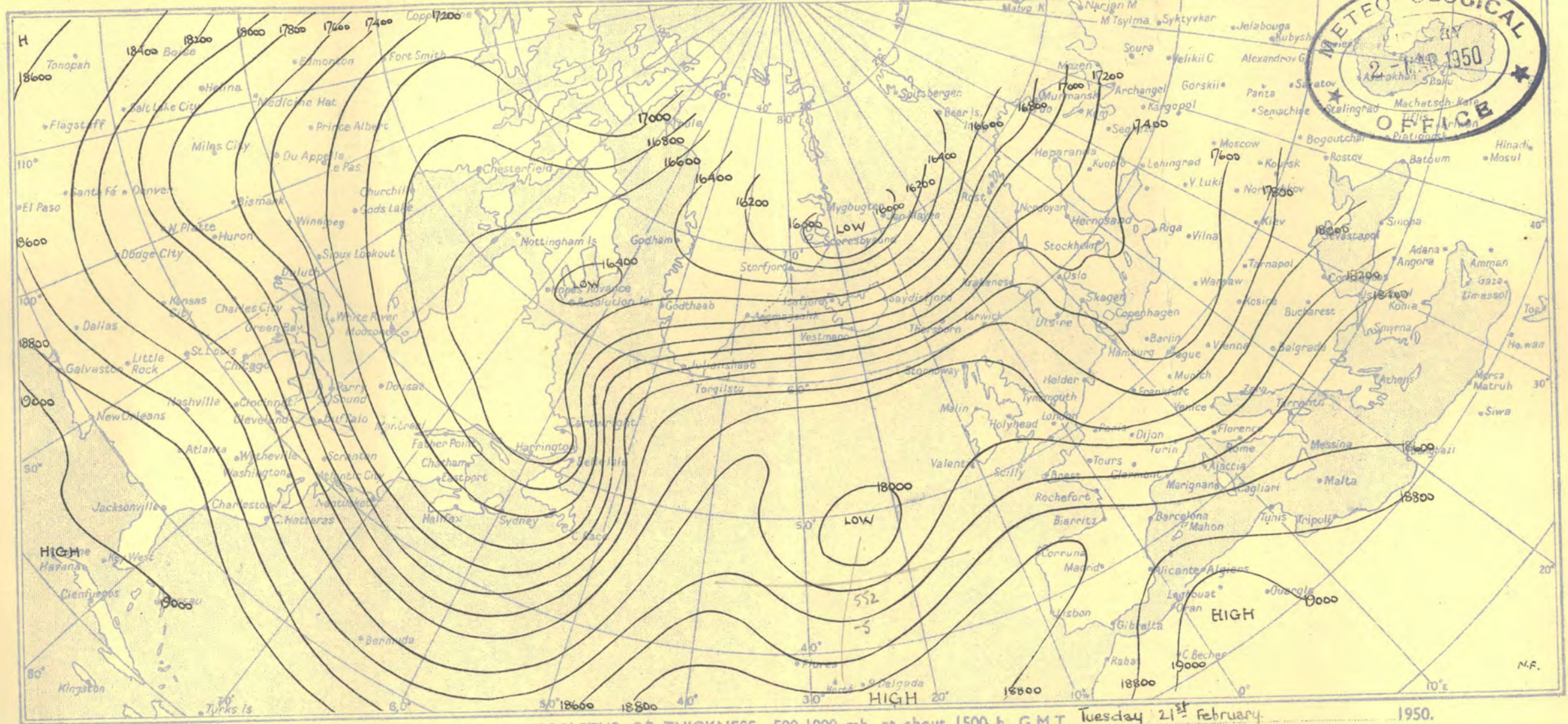


NOTES ON THE AEROLOGICAL SITUATION.

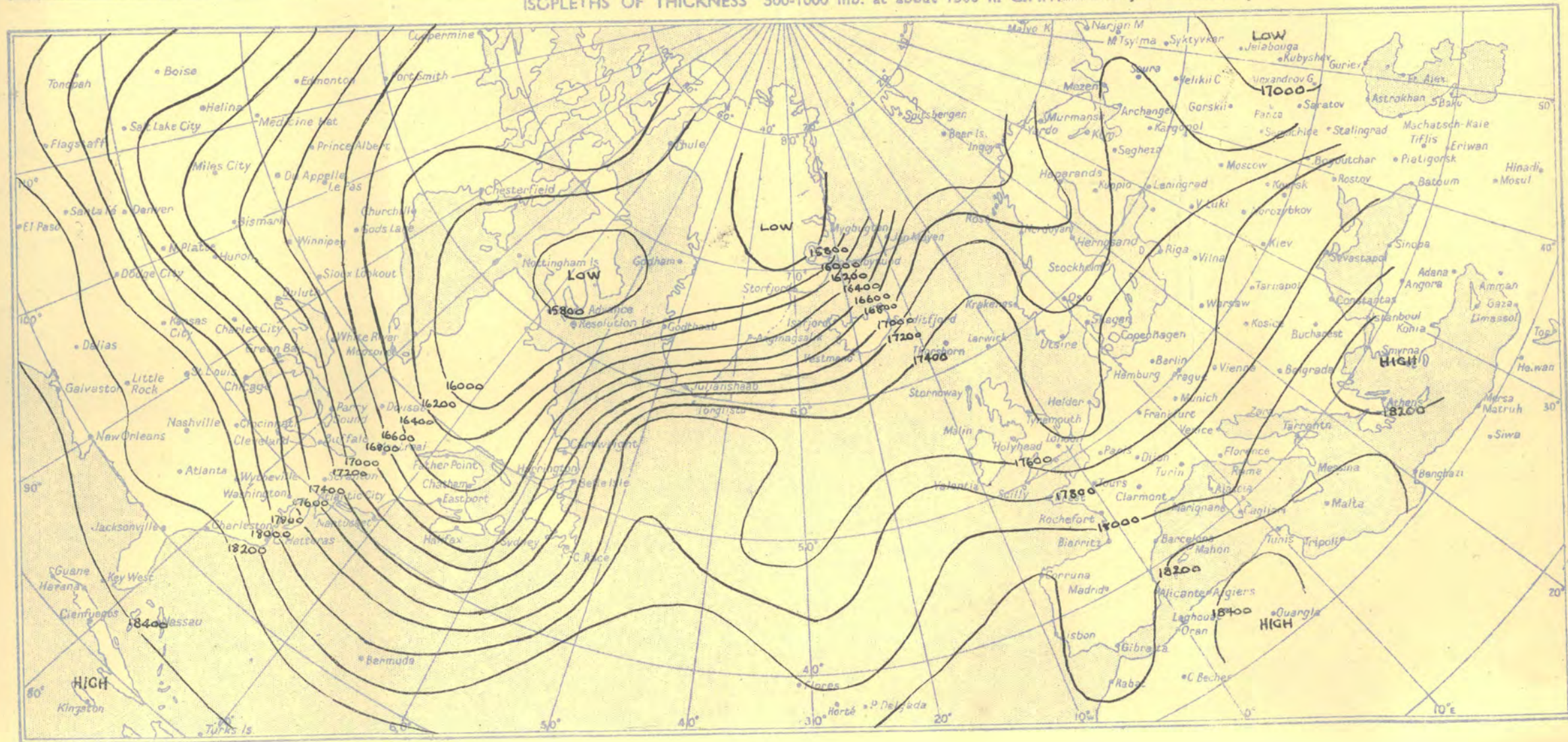
The cold trough over Britain moved Southeastwards, while warmer air advanced slowly eastwards over the British Isles ahead of the surface depression southwest of Ireland. The very strong westerly thermal gradient was maintained in the Iceland area, and extended towards Scandinavia. A cold trough extending Southeastwards from Upper Canada and Newfoundland intensified.

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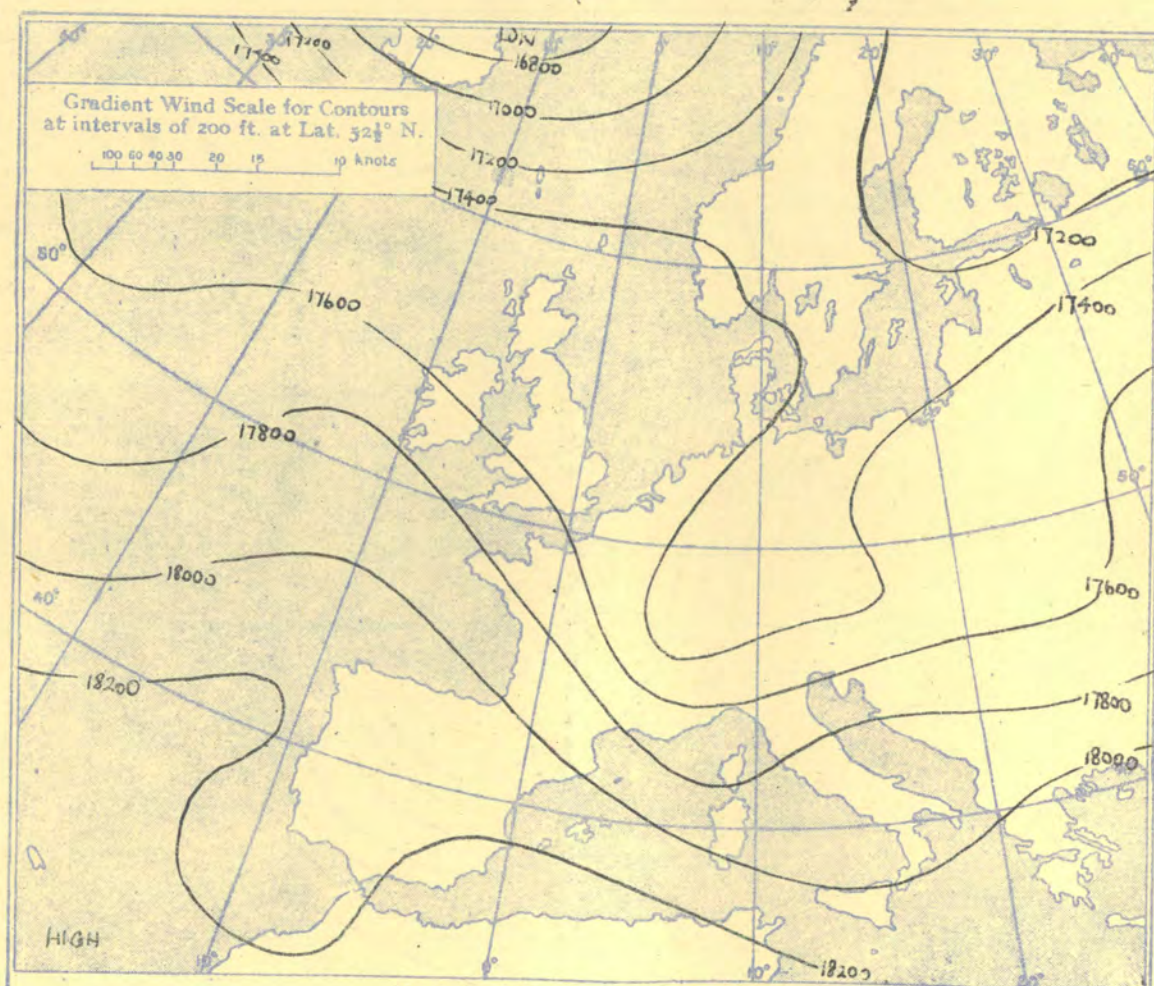
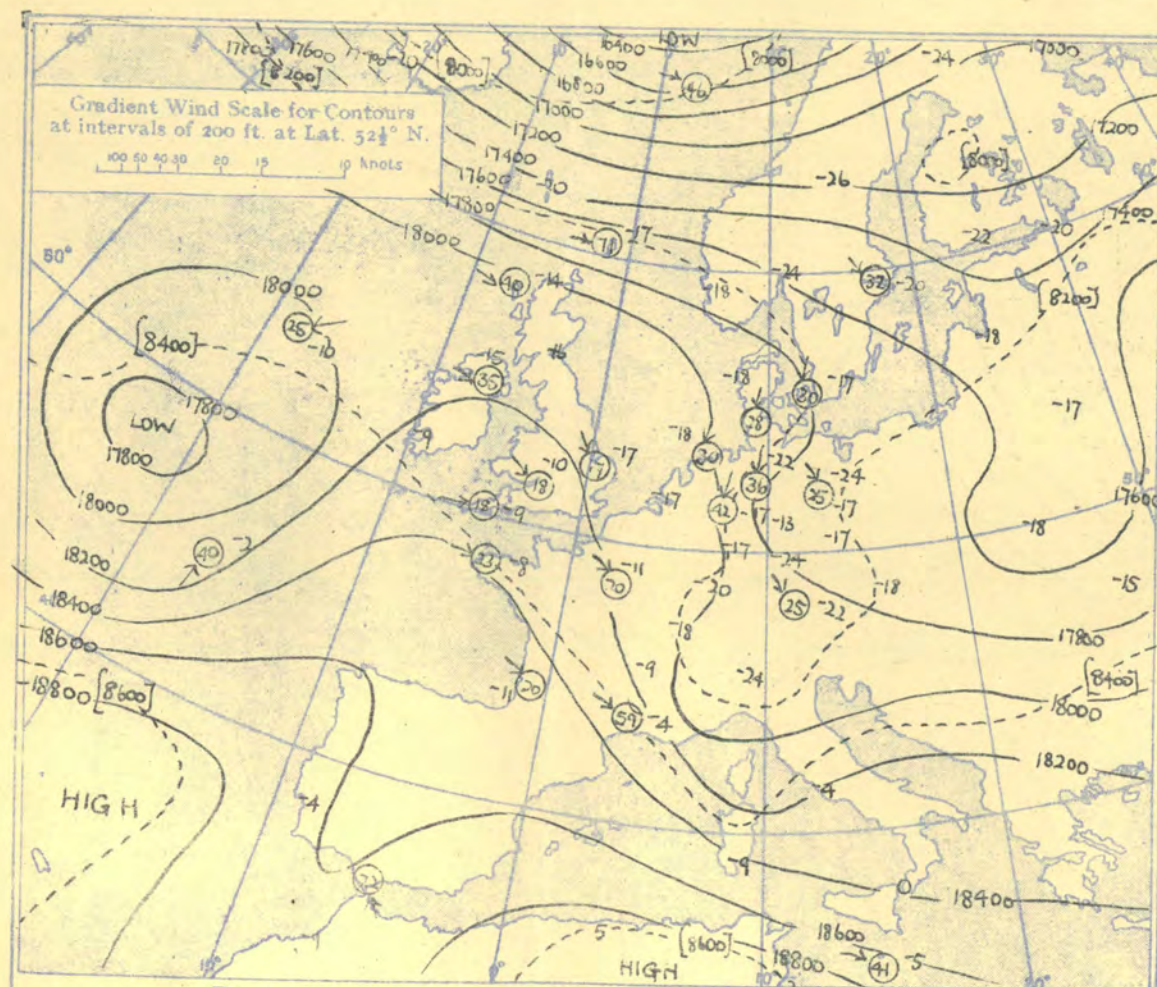
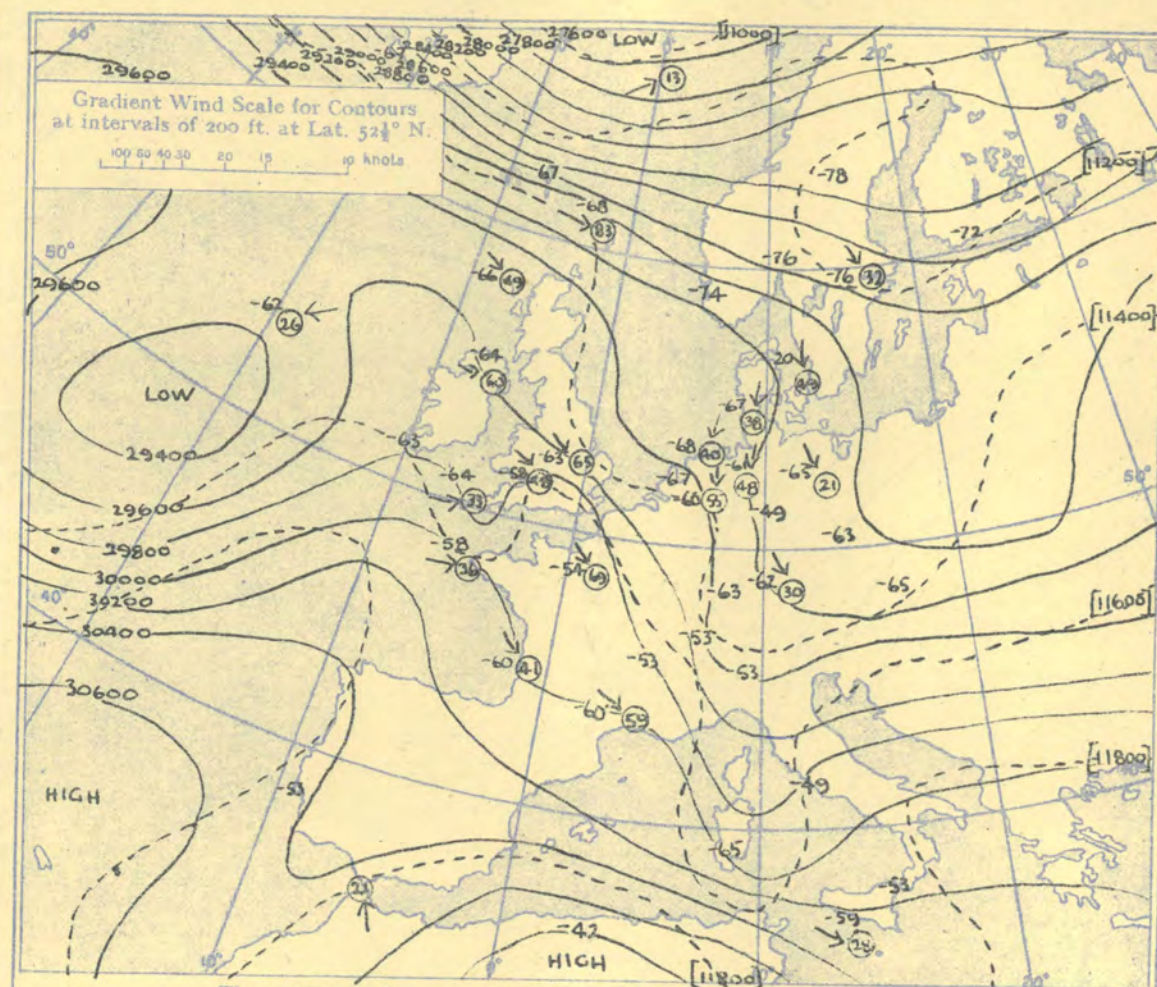
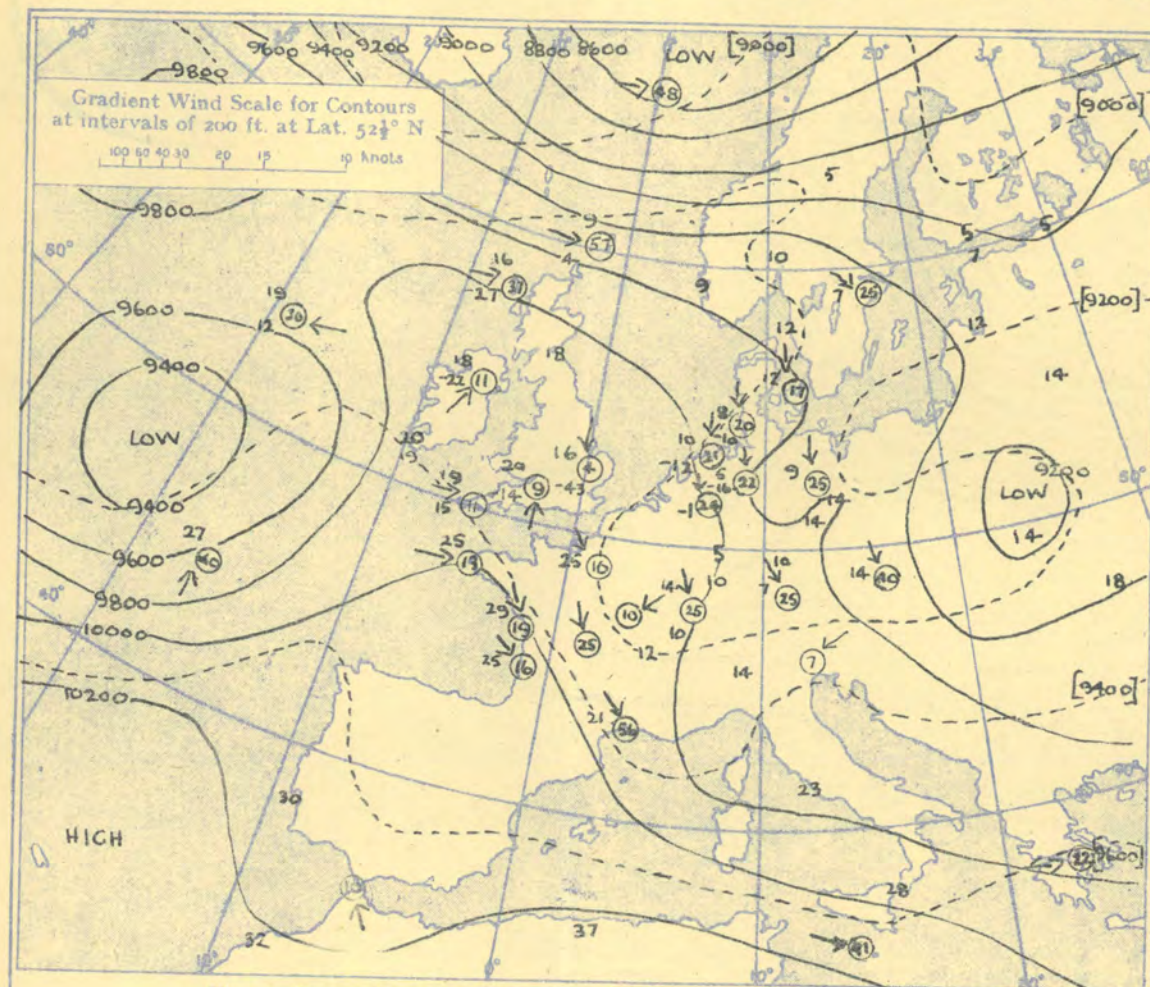
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Tuesday 21st February 1950.



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 0300 G.M.T.



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	48.2°N 20.5°W			49.5°N 19.5°W			49.2°N 17°W			50.2°N 12.2°W			51.3°N 0.4°W			Weather			Shoeburyness									
	134 215	154 215	174 215	194 215	214 215	234 215	254 215	274 215	294 215	314 215	334 215	354 215	374 215	394 215	414 215	214 215	154 215	214 215	214 215	214 215	214 215	214 215	214 215	214 215	214 215	214 215	214 215	
Pressure	1000 mb	1000 mb	1015 mb	1017 mb	1017 mb	1017 mb	1017 mb	1017 mb	1017 mb	1017 mb	1017 mb	1017 mb	1017 mb	1017 mb	1017 mb	Pilot	Pilot											
Freezing	830 mb	810 mb	730 mb	715 mb	715 mb	715 mb	715 mb	715 mb	715 mb	715 mb	715 mb	715 mb	715 mb	715 mb	715 mb	Feet	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Surf	-	53.47	-	51.51	-	57.47	-	61.61	-	61.61	-	61.61	-	61.61	-	Surf.												Surf.
1000	1.0	53	1.0	51.51	5.1	56	5.9	61	6.1	61	6.1	61	6.1	61	6.1	1,000												1,000
950	43	40	45	45	54	47	53	54	54	54	54	54	54	54	54	2,000												2,000
900	40	32	42	39	53	41	57	57	57	57	57	57	57	57	57	3,000												3,000
850	33	25	36	25	47	42	50	50	50	50	50	50	50	50	50	4,000												4,000
800	29	28	31	-	41	41	43	43	43	43	43	43	43	43	43	5,000												5,000
750	16	-9	29	-	34	33	37	-	37	-	37	-	37	-	37	6,000												6,000
700	25	22	35	24	101	29	28	103	30	28	4	13	28	4	13	8,000												8,000
650	16	-	17	-	26	23	21	-	21	-	13	7	4	-	-	10,000												10,000
600	10	-	10	-	16	-	15	-	15	-	13	7	4	-	-	14,000												14,000
550	3	-	04	-	09	-	07	-	07	-	11	-	-	-	-	18,000												18,000
500	171	-6	-180	-6	-187	03	-	188	01	-	180	-19	-	-	-	24,000												24,000
450																30,000												30,000
400																40,000												40,000
350																50,000												50,000
300																												
250																												
200																												
170																												

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

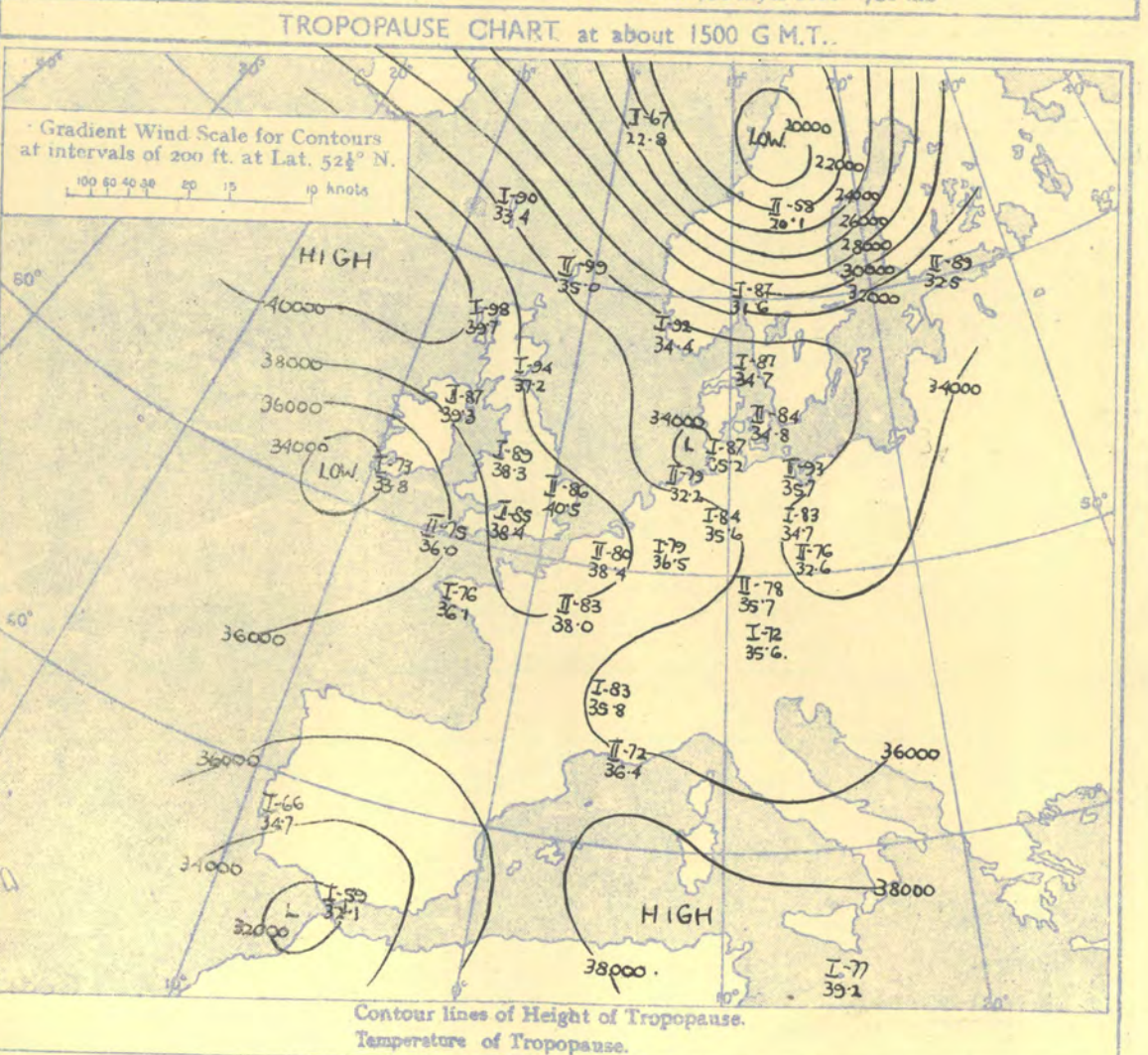
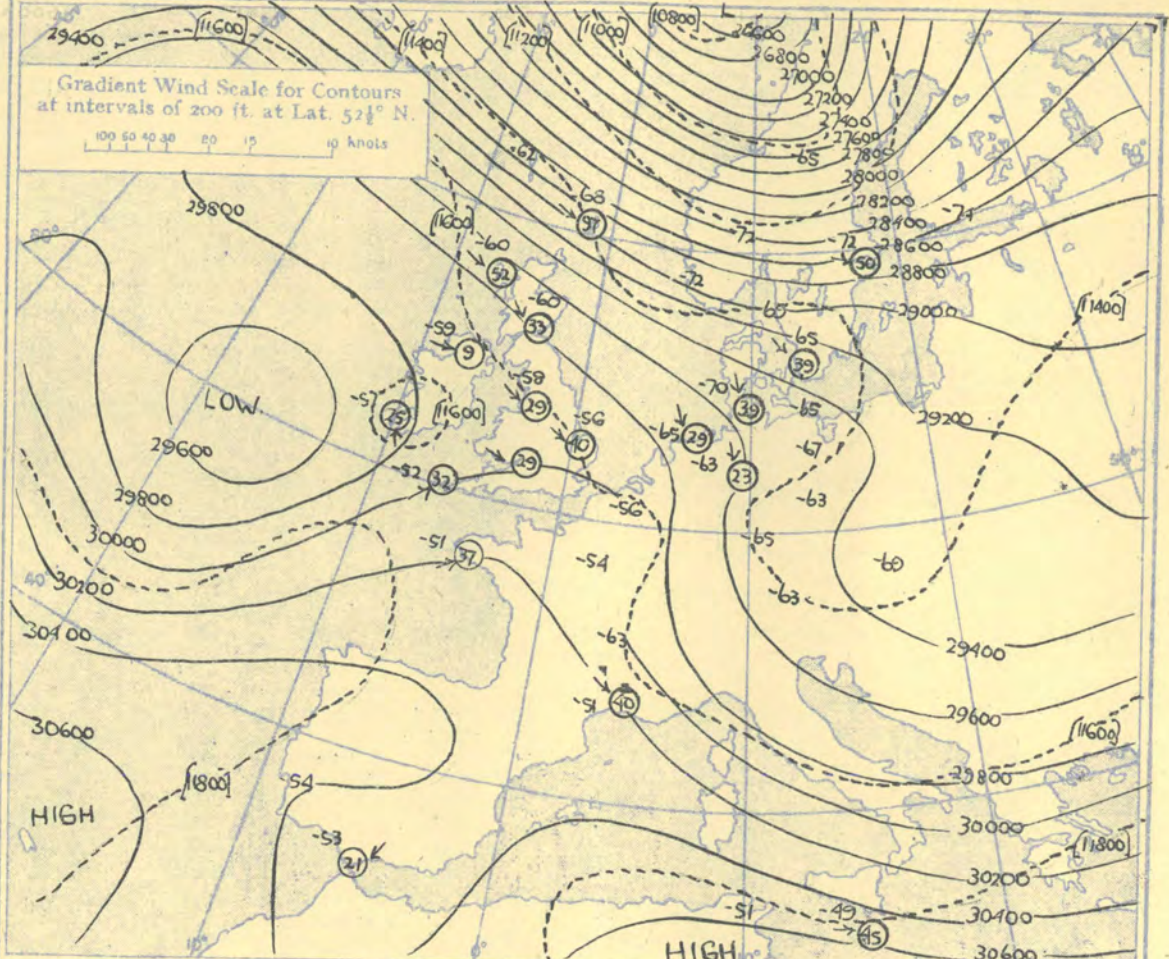
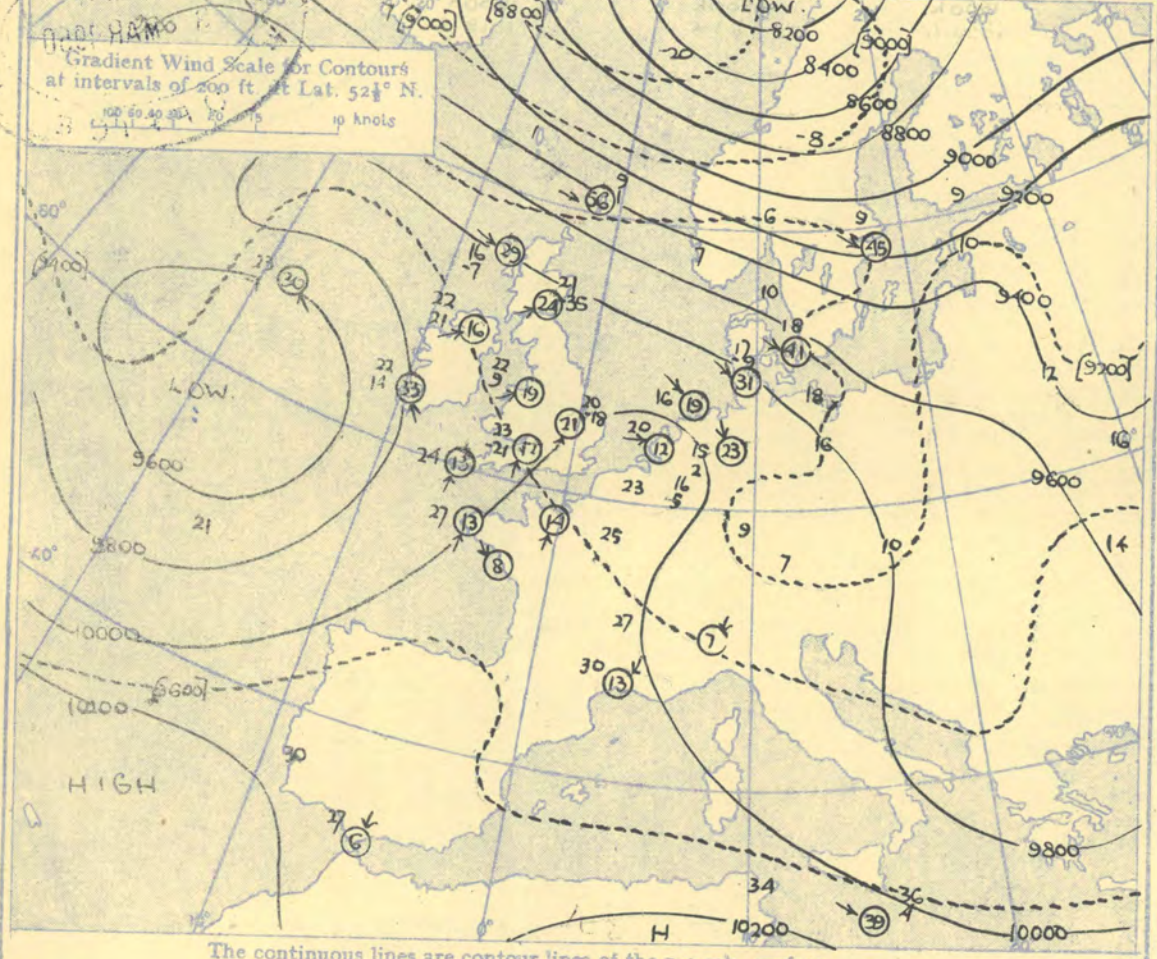
Ship	Weather Watcher	Weather Recorder	Weather Watcher	Weather Recorder	Weather Recorder	Weather Watcher	Weather Recorder	Weather Watcher	Weather Recorder	Weather Watcher	Weather Recorder	Ship
Lat/Long	53° 8' N 18° 6' W.	60° 0' N 19° 9' W.	53° 8' N 18° 7' W.	60° 0' N 20° 2' W.	59° 3' N 20° 1' W.	53° 8' N 18° 6' W.	60° 0' N 20° 5' W.	53° 9' N 18° 7' W.				Lat/Long
Time	21st Feb. 15h. G.M.T.	21st Feb. 15h. G.M.T.	21st Feb. 21h. G.M.T.	21st Feb. 21h. G.M.T.	21st Feb. 03h. G.M.T.	21st Feb. 03h. G.M.T.	21st Feb. 03h. G.M.T.	21st Feb. 03h. G.M.T.				Time
Surf	1017	1013	1014	1017	1019	1012	1019	1011				Surf
Freezing	900	840	905	950	950	900	945	850				Freezing
Pressure	Height	Height	Height	Height	Height	Height	Height	Height	Height	Height	Height	Pressure
mb	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	ft/100	mb
Temp.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	Temp.
Dew	°F.	°F.	°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.	Dir. Vel.	Dir. Vel.	Wind
° knots	° knots <td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<th>° knots</th></td></td></td></td></td></td></td></td></td></td>	° knots <td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<th>° knots</th></td></td></td></td></td></td></td></td></td>	° knots <td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<th>° knots</th></td></td></td></td></td></td></td></td>	° knots <td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<th>° knots</th></td></td></td></td></td></td></td>	° knots <td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<th>° knots</th></td></td></td></td></td></td>	° knots <td>° knots<td>° knots<td>° knots<td>° knots<td>° knots<th>° knots</th></td></td></td></td></td>	° knots <td>° knots<td>° knots<td>° knots<td>° knots<th>° knots</th></td></td></td></td>	° knots <td>° knots<td>° knots<td>° knots<th>° knots</th></td></td></td>	° knots <td>° knots<td>° knots<th>° knots</th></td></td>	° knots <td>° knots<th>° knots</th></td>	° knots <th>° knots</th>	° knots
Surf	47 39 080 16	42 36 280 25	48 35 080 24	42 31	41 31 290 22	47 37 065 16	42 31 250 11	47 38 070 28				Surf
1000	4.4 46 39 080 25	3.4 40 34 279 36	4.4 42 31	4.4 42 31	4.9 38 29 283 33	3.1 45 36 066 39	4.0 31 257 23	4.6 39 068 45				1000
950	39 32 080 25	33 26 277 38	39 32 069 38	32 27	32 25 290 26	39 33 066 38	33 28 254 20	39 32 068 44				950
900	32.5 32 27 084 21	26 19 272 33	31.9 30 23 072 34	32.1 15 18	32.3 24 23 292 24	31.3 32 29 065 38	32.8 27 27 266 17	30.9 34 28 073 35				900
850	26 22 090 19	20 13 269 34	24 16 076 33	19 11	19 19 294 25	27 19 069 34	21 21 266 15	32 28 074 33				850
800	63.2 23 12 094 20	61.3 16 5 269 36	62.4 25 24 080 28	62.2 19 08	62.6 21 8 290 33	61.9 26 19 071 27	63.1 20 10 274 20	61.9 30 26 075 31				800
750	21 -1 100 15	13 -11 270 40	22 -26 088 30	18 03	16 2 280 38	23 15 075 30	15 -8 279 27	28 23 077 29				750
700	97.4 16 -17 104 11	94.9 11 -8 268 45	96.7 18 -8 080 28	96.2 11 -6	96.4 10 -4 275 39	96.2 19 12 079 30	97.0 15 0 281 30	96.5 24 17 076 27				700
650	10 -17 098 08	6 -10 261 50	12 -3 075 21	06 -8	6 -6 268 37	14 9 088 27	11 -47 281 33	14 6 078 30				650
600	136 5 -2 090 05	133 -1 -22 262 48	136 5 -3 072 14	135 03 -8	135 2 -7 270 43	135 7 2 088 25	136 6 -50 292 39	135 8 -1 078 30				600
550	0 -7 355 02	-8 -26 270 51	-2 -9 088 12	-4 -15	-5 -12 268 43	-1 -8 083 29	-1 -20 303 46	-1 -8 077 31				550
500	181 -5 -14 268 18	177 -17 -32 258 49	180 -10 -17 100 06	179 -13 -25	179 -12 -21 273 54	180 -10 -20 072 25	181 -1 -20 308 55	180 -12 -22 077 40				500
450	-15 -25 253 38	-27 -41 274 61	-22 -29 093 06	-24 -35	-22 -32 285 51	-20 -35 064 24	-14 -35 306 55	-23 -36 079 44				450
400	234 -27 -38 223 51	229 -40 -53 280 52	232 -34 -43 085 06	231 -35 -44	231 -34 -53 285 56	232 -34 -48 048 24	234 -29 -48 299 51	232 -35 -49 086 49				400
350	-40 -53 306 28	-52 268 59	-47 090 08	-49	-47 284 63	-45 063 26	-43 292 51	-48 085 58				350
300	298 -53 226 32	291 -67 284 61	295 -60 126 09	293 -65	294 -62 291 67	295 -62 063 26	297 -53 292 56	295 -61 078 45				300
250	-68 235 37	-83 289 60	-74 189 10	-82	-79 306 79	-74 048 25	-77 292 51	-75 068 34				250
200	383 -67 228 28	372 -97 299 72	379 -76 210 20	375 -97	376 -98 283 61	379 -76 250 1	380 -97 294 54	379 -71 079 05				200
170	-62 235 25	-78 295 54	-71 134 25	-80	-86 283 61	-73 264 18	-88 294 57	-68 261 14				170
150	-61 (164)	-77 286 68	-68 260 42	-82	-82 (164)	-71 255 28	-81 295 58	-71 267 39				150
130		-76 274 65	-70 270 58	-80		-70 265 35	-78 294 63	-73 271 41				130
110		-78 266 63	-74 270 58	-79		-72 263 42	-78 294 76	-74 271 45				110
100		-79 264 71	-78 270 58	-81		-75 265 42	-78 293 78	-75 271 38				100
90		-77 269 69	-78 (89)			-77 (95)	-78 293 74	-77 271 38				90
80		-79 274 75										80
70												70
60												60
Isotermal.	810-800mb 23°	810-800mb 23°	810-800mb 23°	810-800mb 23°	810-800mb 23°	810-800mb 23°	810-800mb 23°	810-800mb 23°				Isotermal.
Inversion.	620-600 5°	720-690mb 11°	830-817mb 23°	817-1000mb 42°	828 812 22°	870 -825mb 27°	850mb 21°-830mb 23°	917-900mb 34°				Inversion.
	800mb 23°-780mb 24°		817mb 23°-800mb 25°	824mb 16°-791mb 20°	845mb 19°-828mb 22°		750 15°-708 16°	625-611 9°				
							550 -10° 520 4°					
Tropopause	I 215 mb -72°	II 215 mb -97°	II 255 mb -74°	I 202 mb -98°	II 205 mb -98°	I 240mb -77°	II 200mb -97°	I 235 mb -79°				Tropopause

1950

Tropopause

Wednesday 22nd February 1960

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 1500 G.M.T.

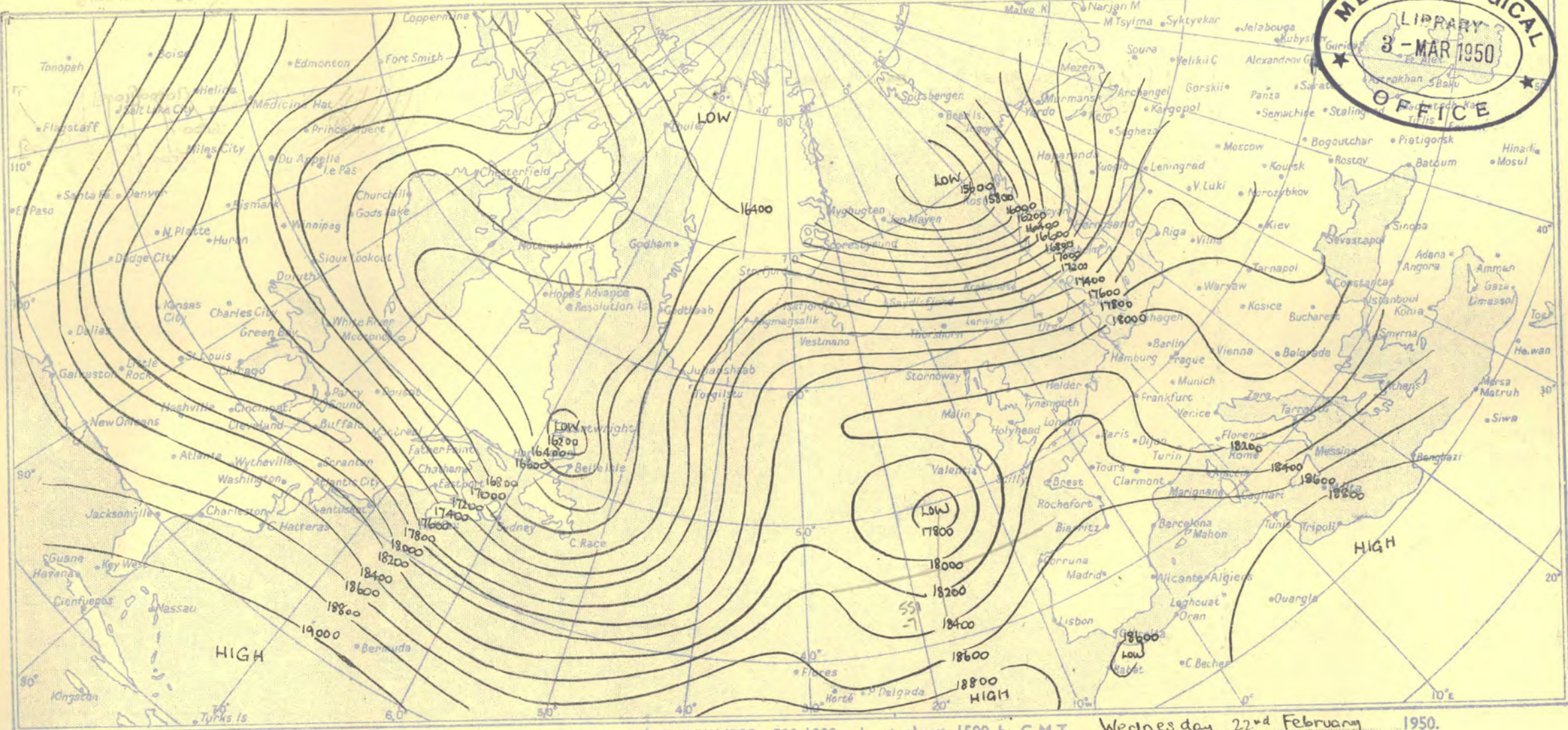


NOTES ON THE AEROLOGICAL SITUATION.

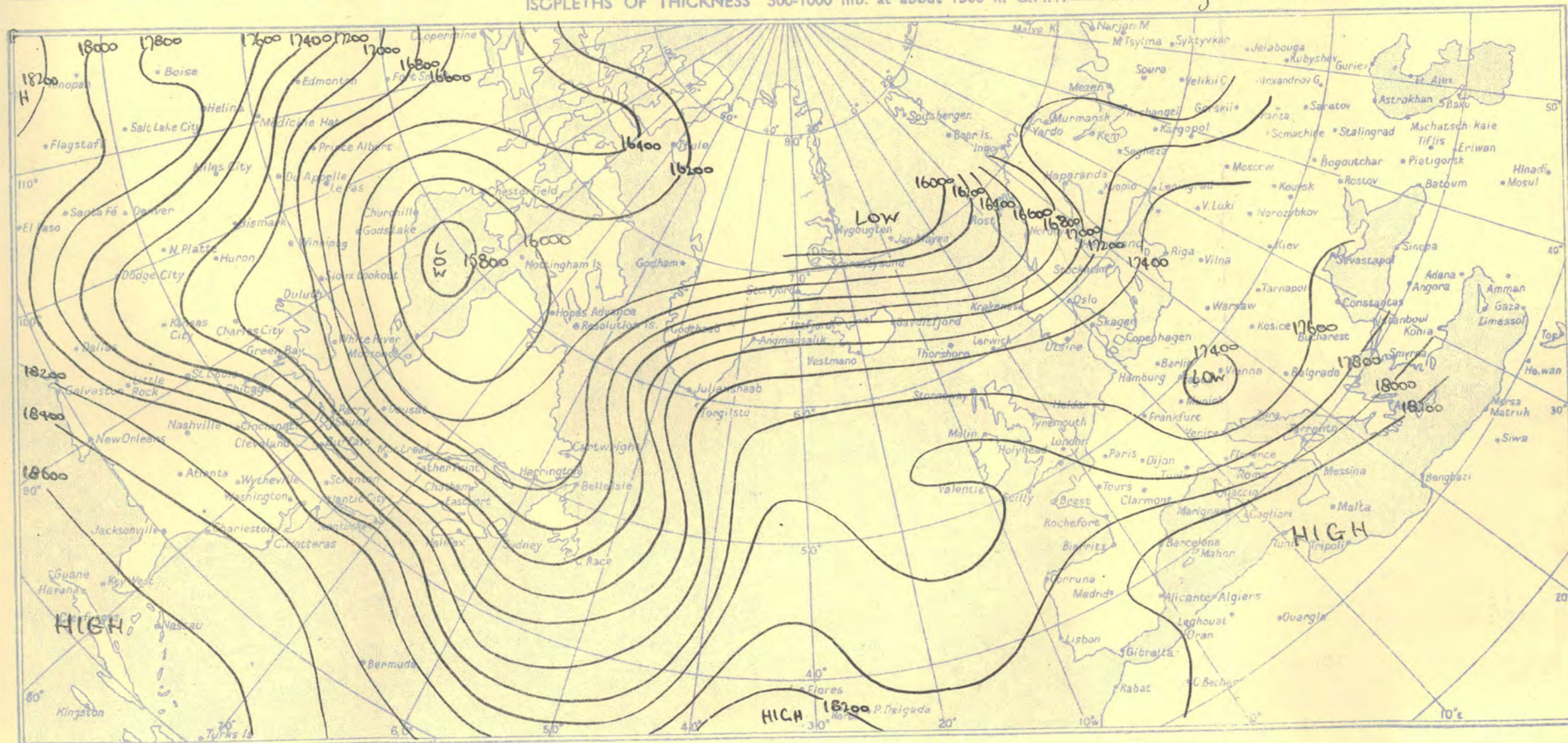
The thermal structure associated with the old depression off the Irish coast became weak. Strong West - Northwest thermal gradients continued in the Iceland - Scandinavia area. Cold air continued to flood into the Atlantic from the Davies Strait.

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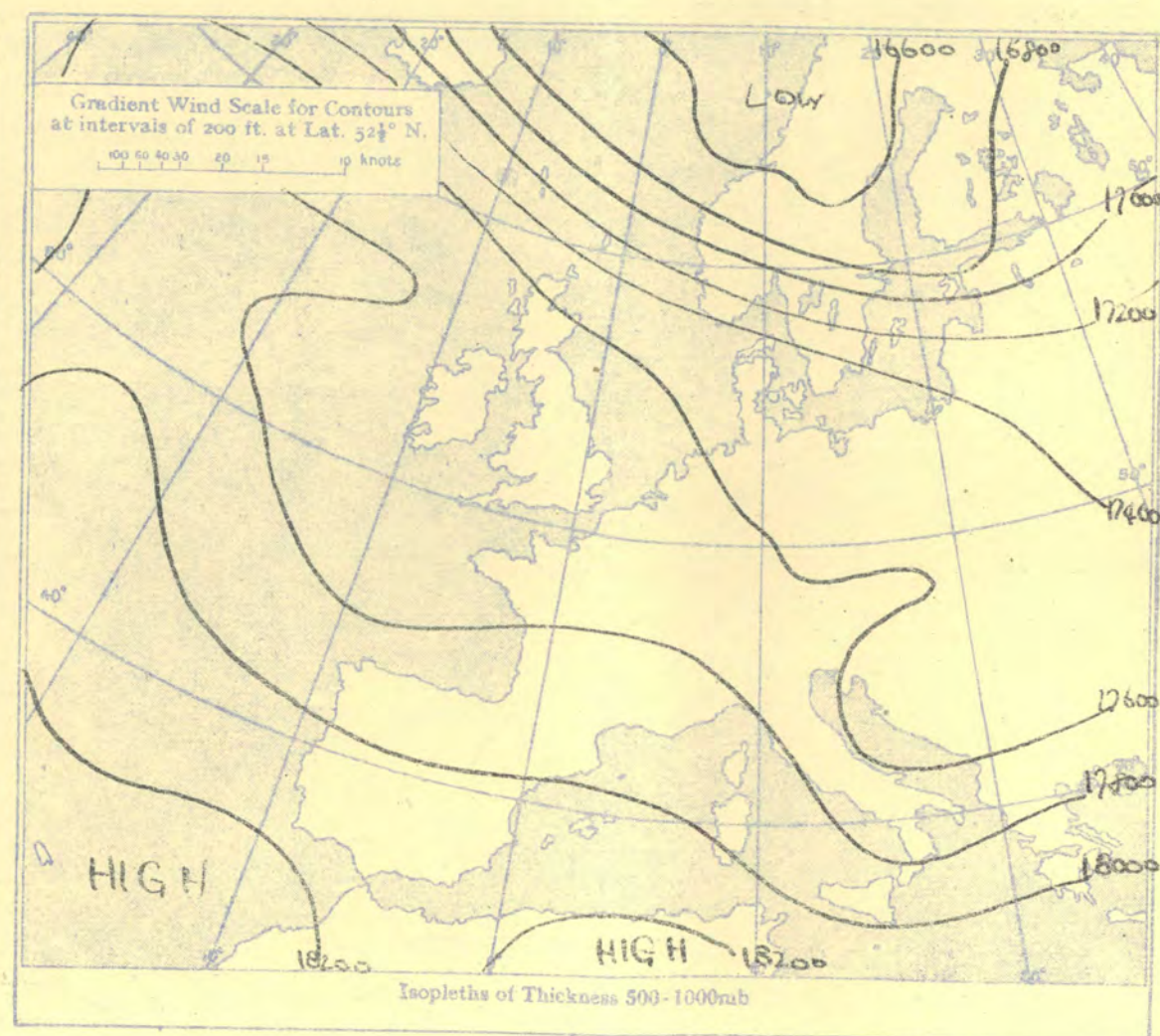
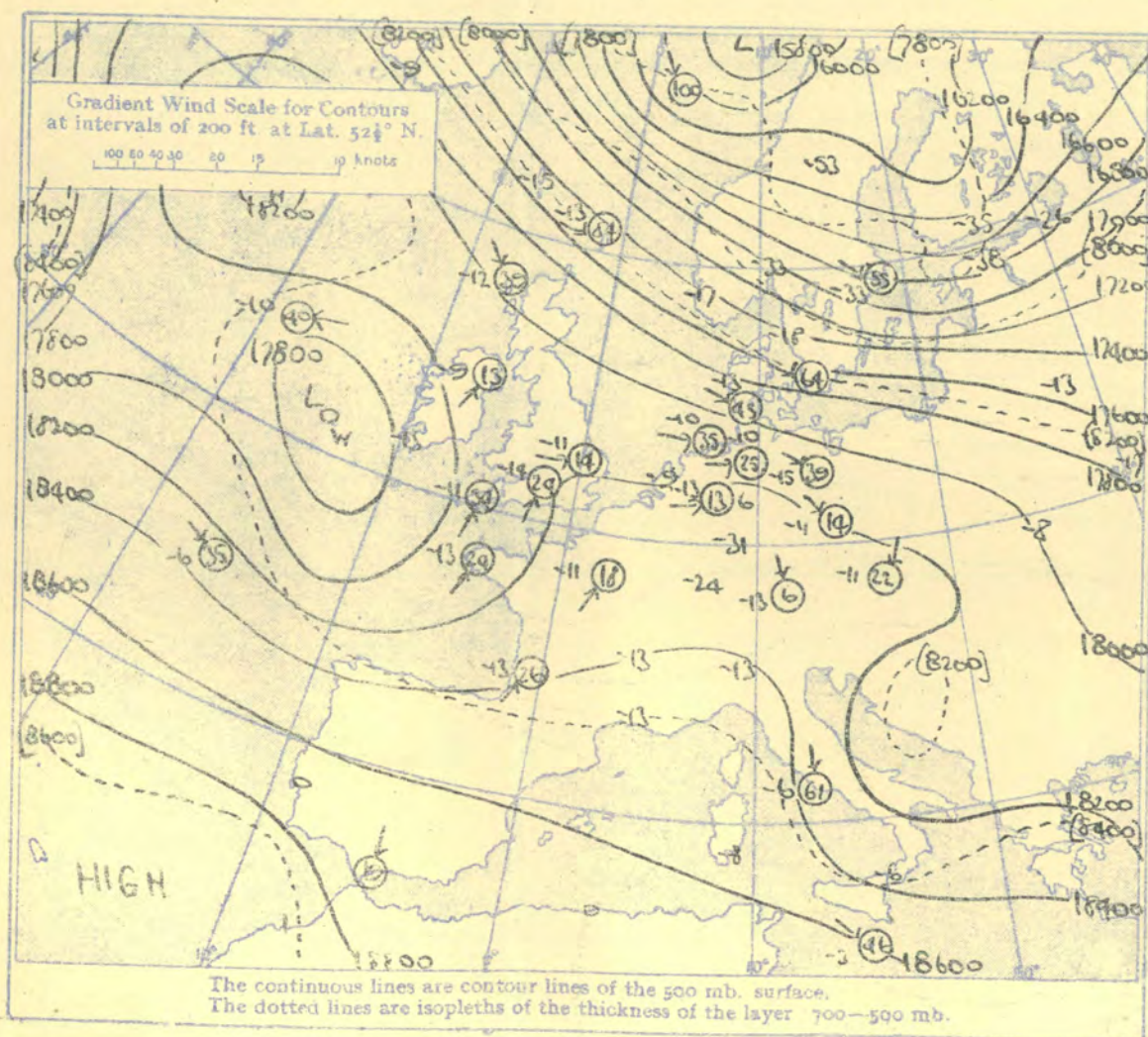
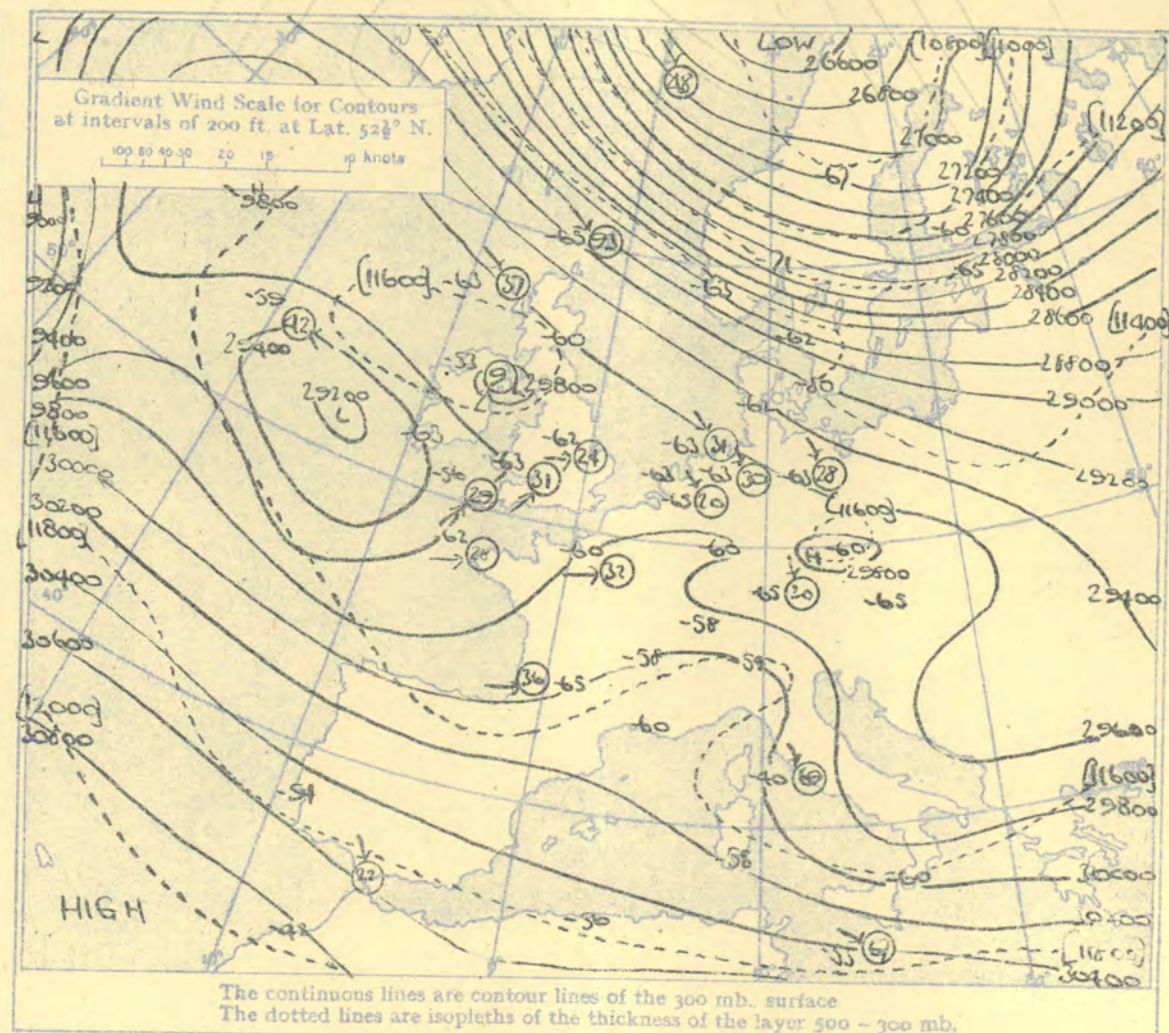
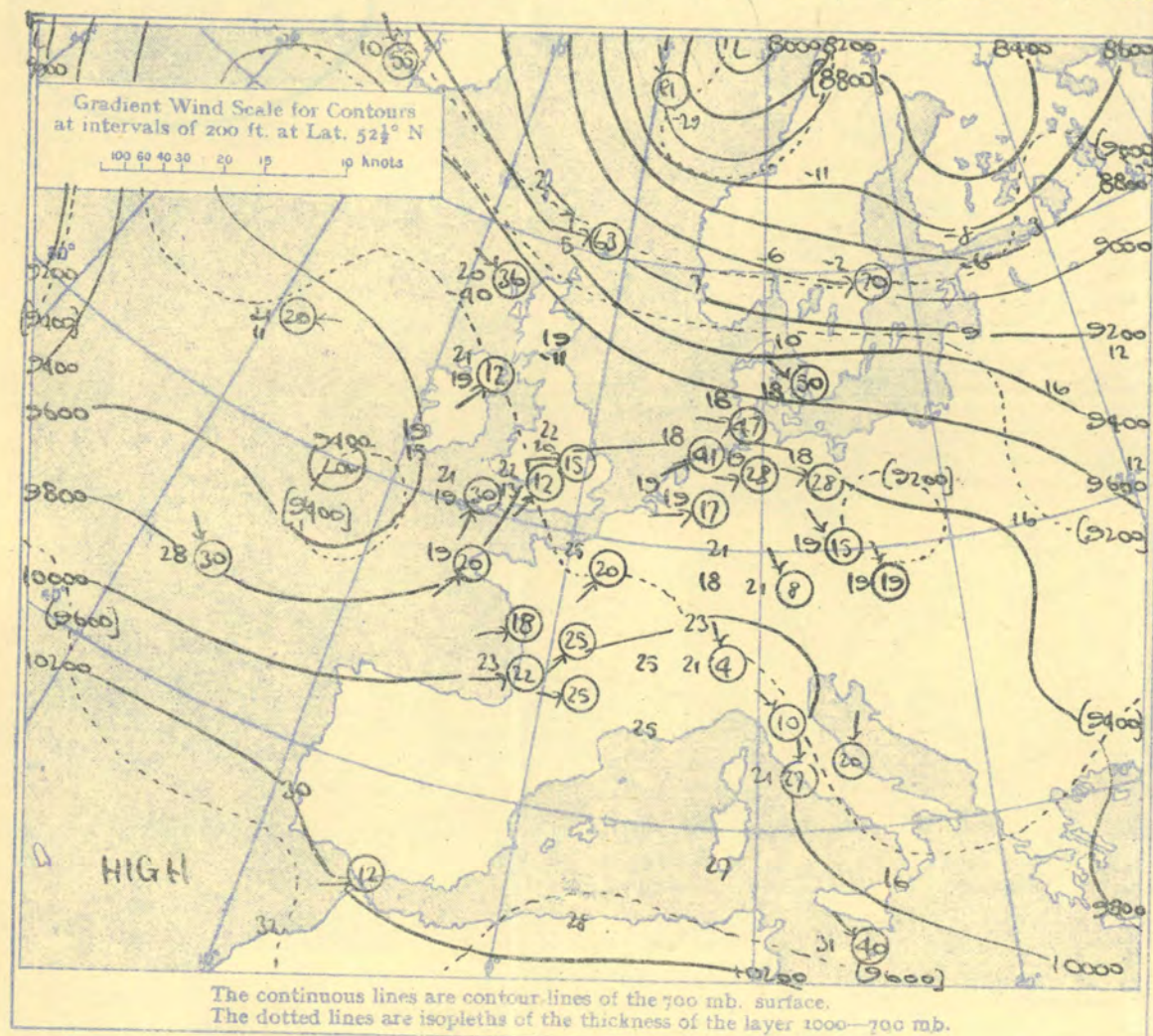
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Wednesday 22nd February 1950.



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 0300 G.M.T.



[illegible]

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

Thursday 23rd February 1950

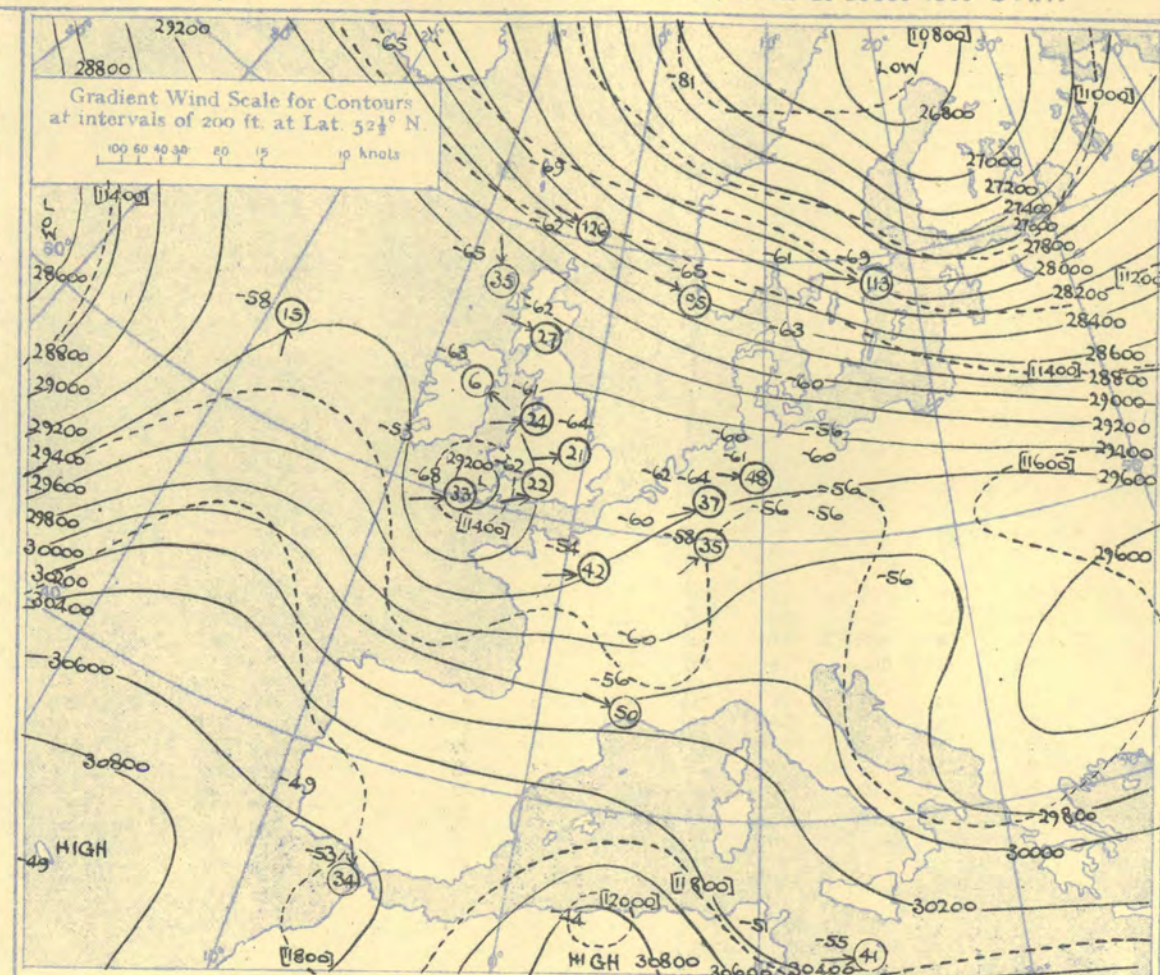
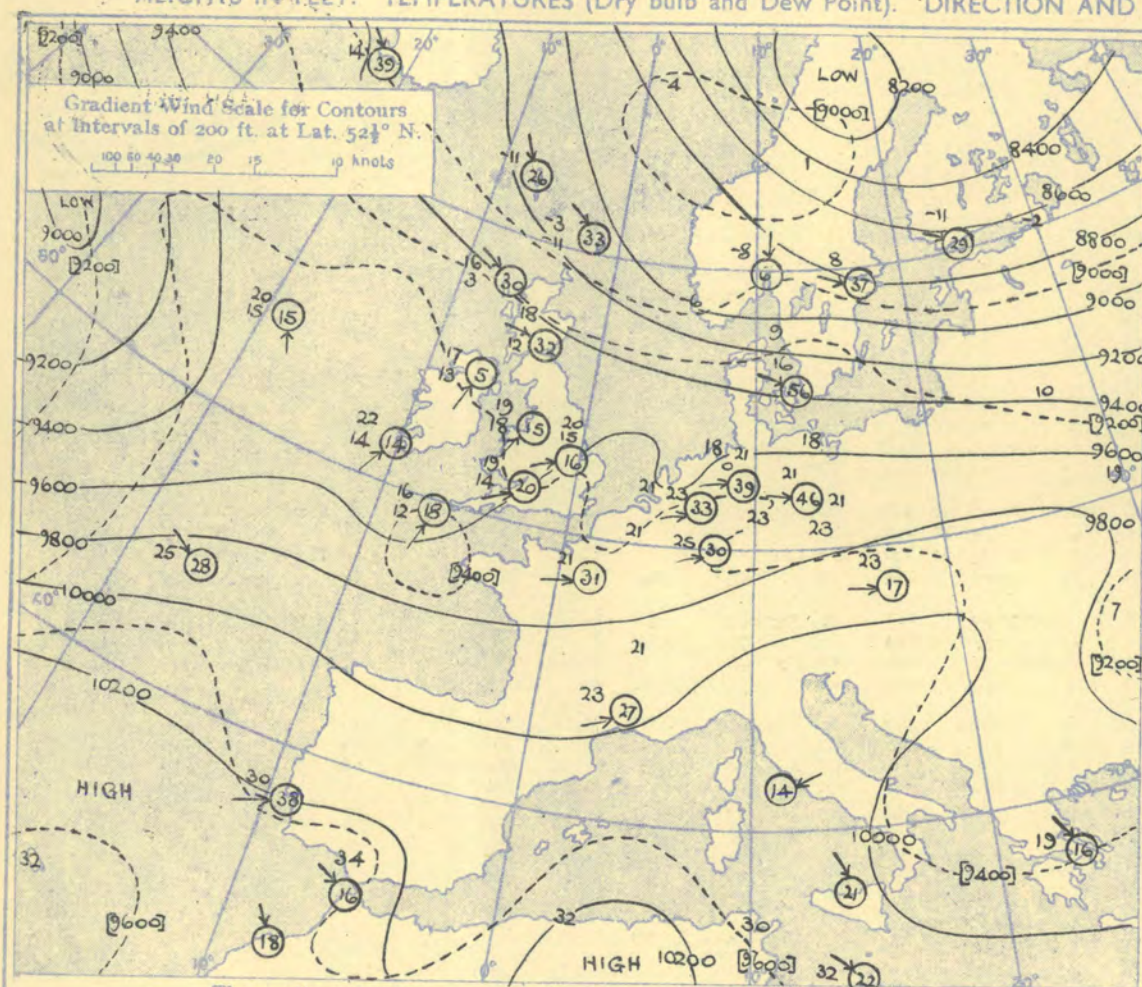
STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION
Time M.S.L.	0300h				0300h				0300h				0300h				0300h				0300h				0300h				0300h				0300h				Time M.S.L.
Surf	1006.0				1013.4				1015.2				1014.2				1018.7				1017.2				1013.0				1005.9				1005.9				Surf
Freezing	995.9				1011.6				1014.3				1005.2				1014.1				1000.8				1002.3				1004				1004				Freezing
Pressure mb	948				925				914				809				854				825				812				812				820				Pressure mb
Height ft./100																																					Height ft./100
Temp. °F.																																					Temp. °F.
Dew °F.																																					Dew °F.
Wind Dir. °																																					Wind Dir. °
Wind Vel. knots																																					Wind Vel. knots
Surf	027				005				002				023				012				012				029				029				003				Surf
1000	15				36				30				44				33				33				46				45				51				1000
950	32				36				39				41				40				35				46				45				51				950
900	29.1				35				36				37				37				37				43				42				47				900
850	27				29				24				38				38				36				36				31				34				850
800	22				28				28				35				35				35				35				31				34				800
750	17				23				23				32				32				32				30				28				29				750
700	12				21				26				27				25				27				27				24				24				700
650	07				20				19				21				19				22				23				21				19				650
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170	44				44				44				44				44				44				44				44				44				170
150	48				48				48				48				48				48				48				48				48				150
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RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

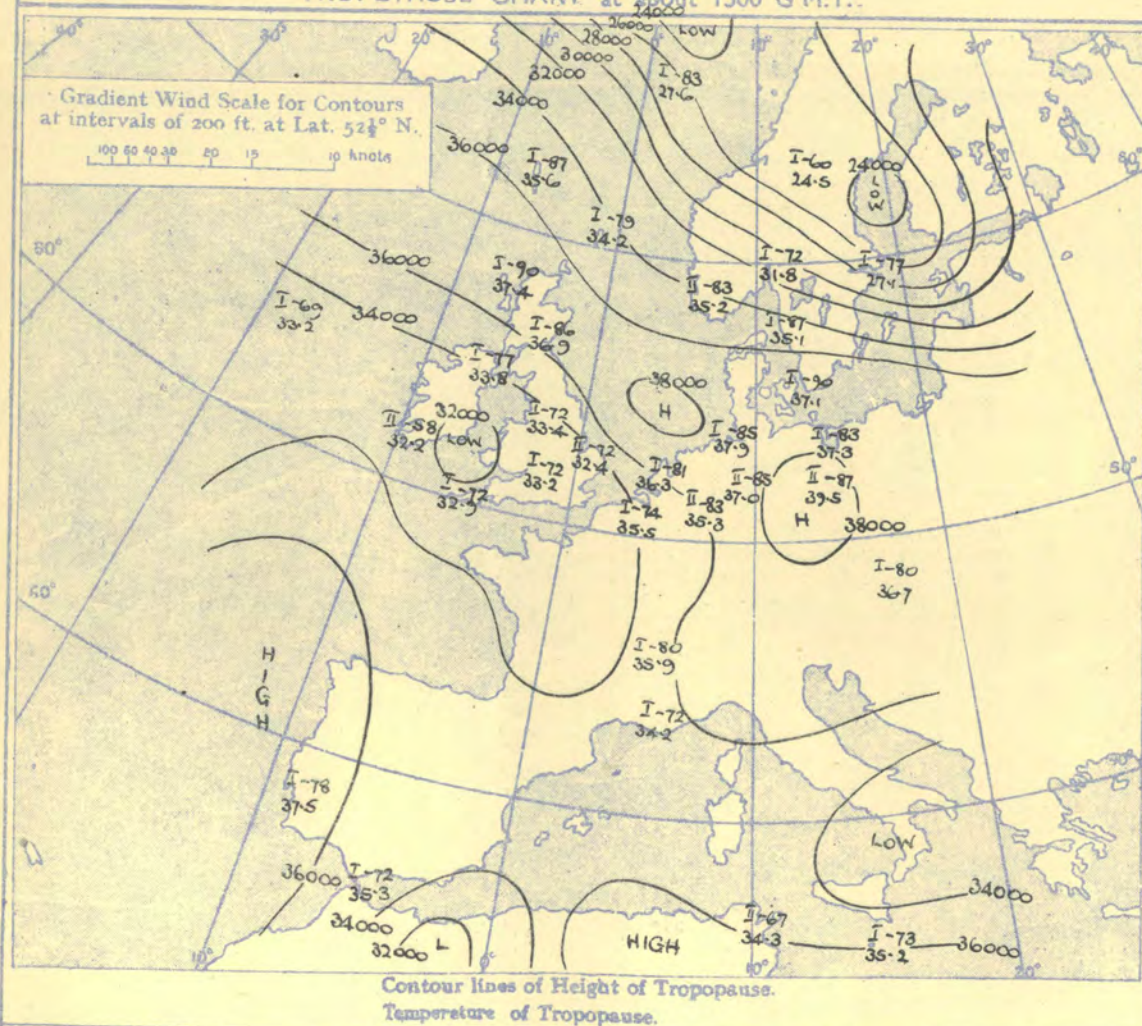
23rd February

STATION	LERWICK					STORNOWAY					LEUCHARS					ALDERGROVE					LIVERPOOL					DOWNHAM MARKET					LARKHILL					CAMBORNE					VALENTIA					STATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

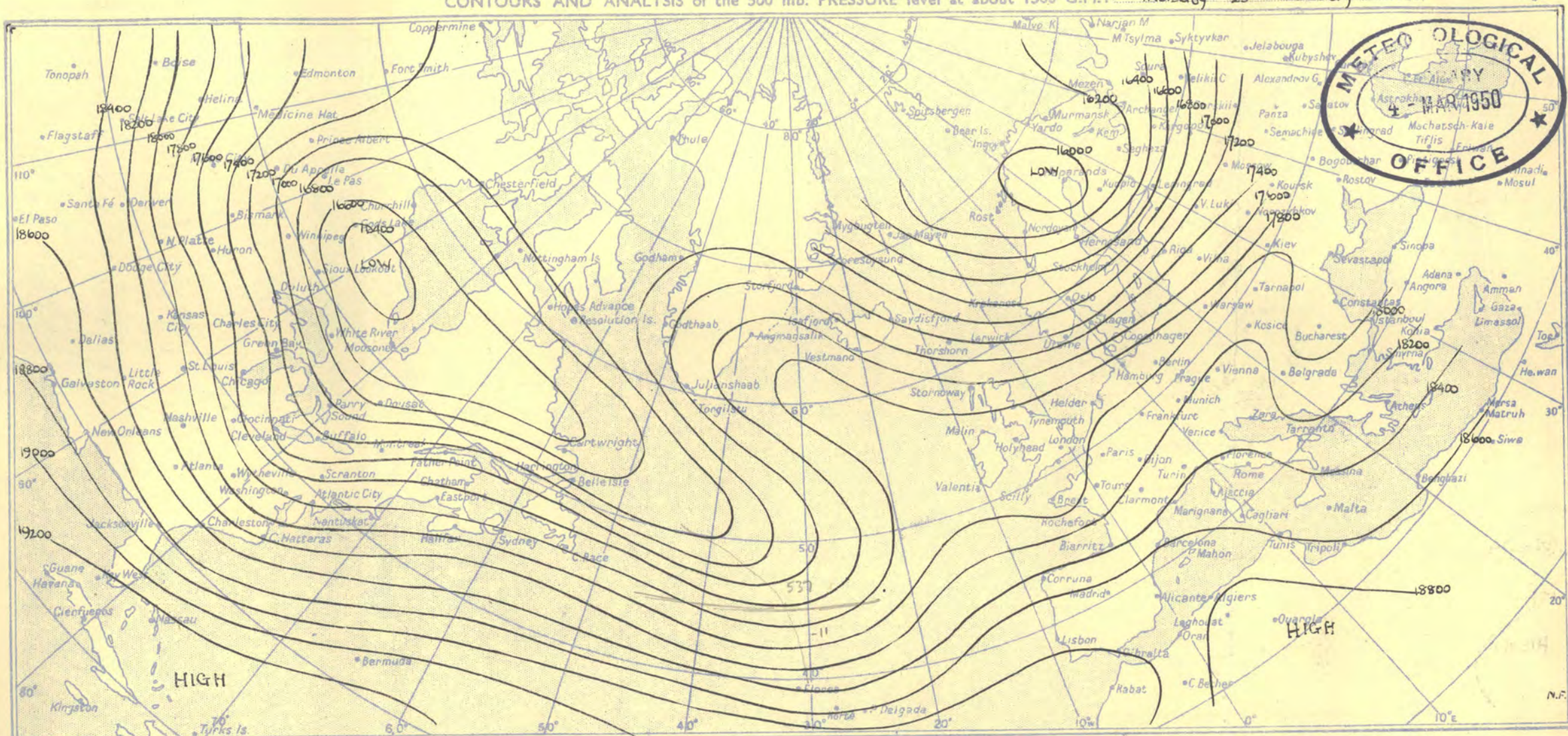


NOTES ON THE AEROLOGICAL SITUATION.

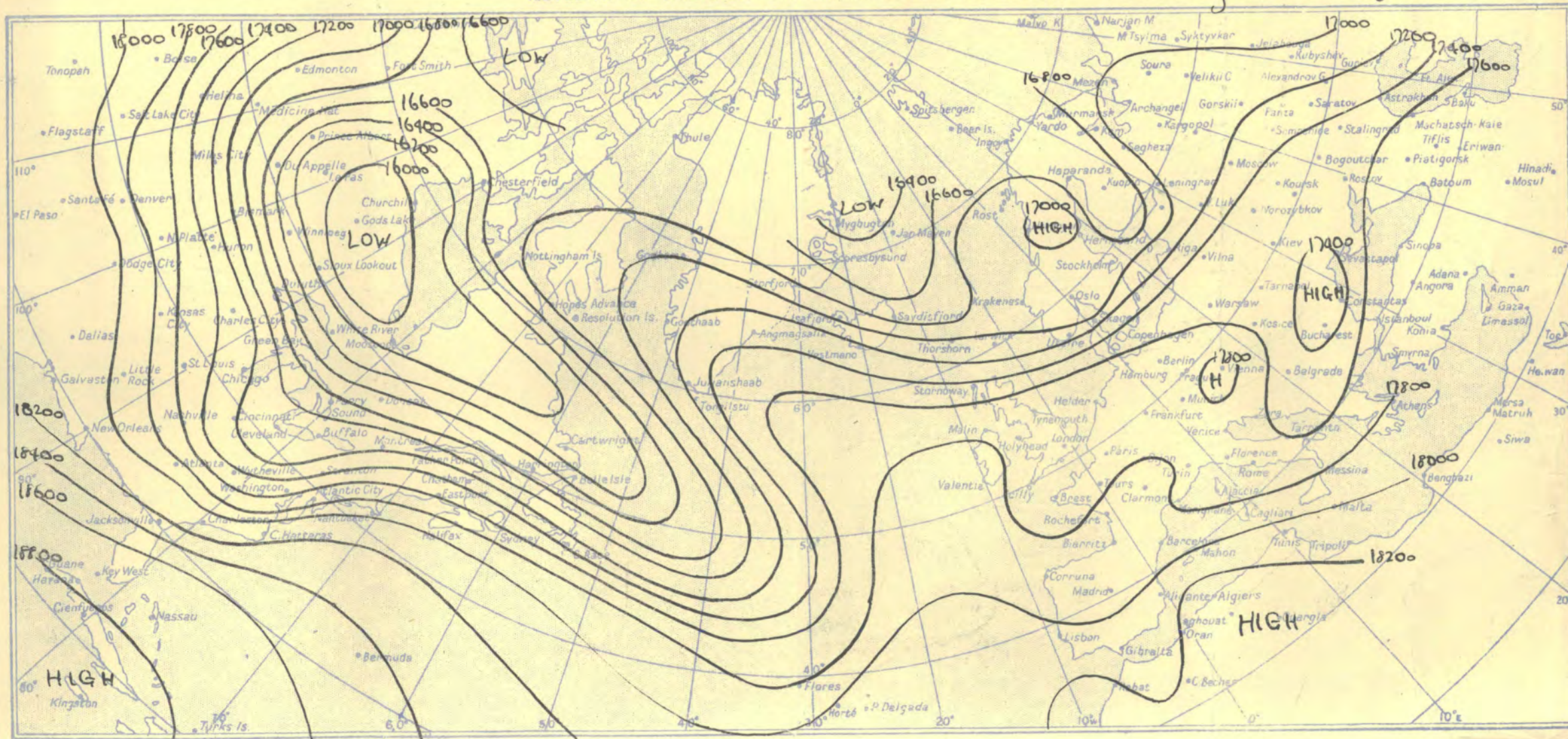
Thermal gradients continued weak over the Southern half of the British Isles, while the North came under the influence of the northwesterly thermal gradient extending from Iceland to the Baltic. A pronounced cold trough extended from the Davis Strait towards Spain.

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.

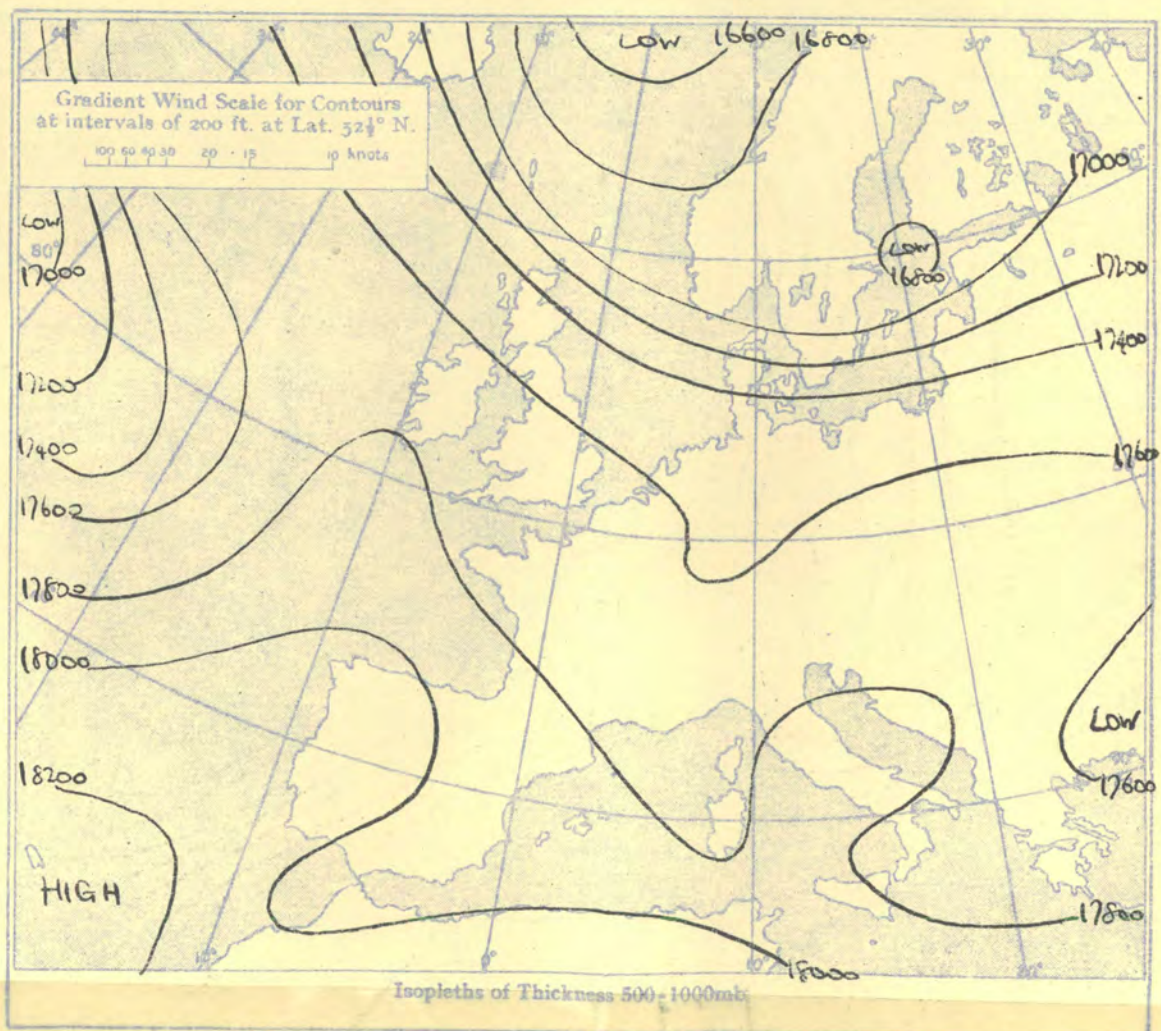
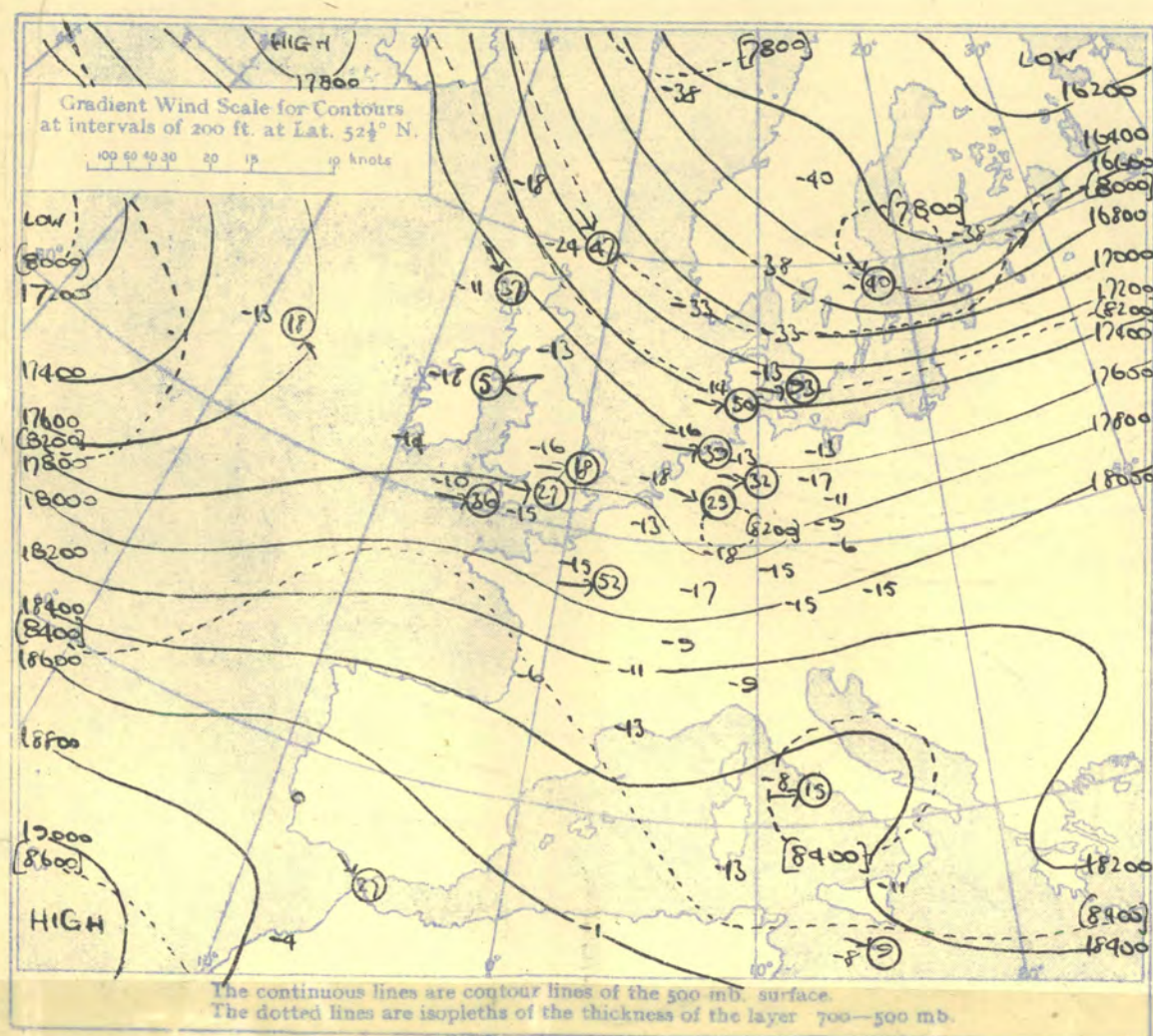
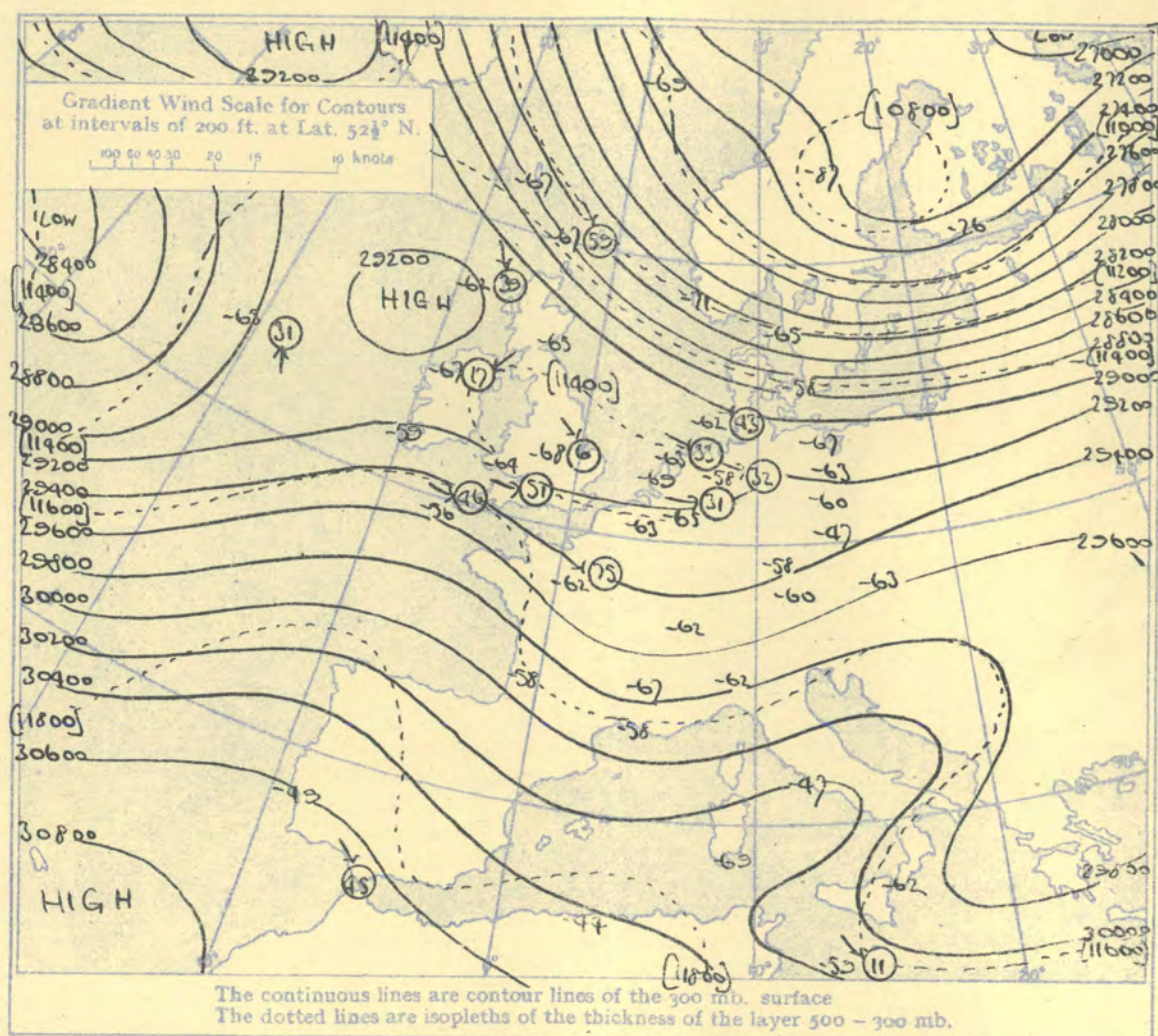
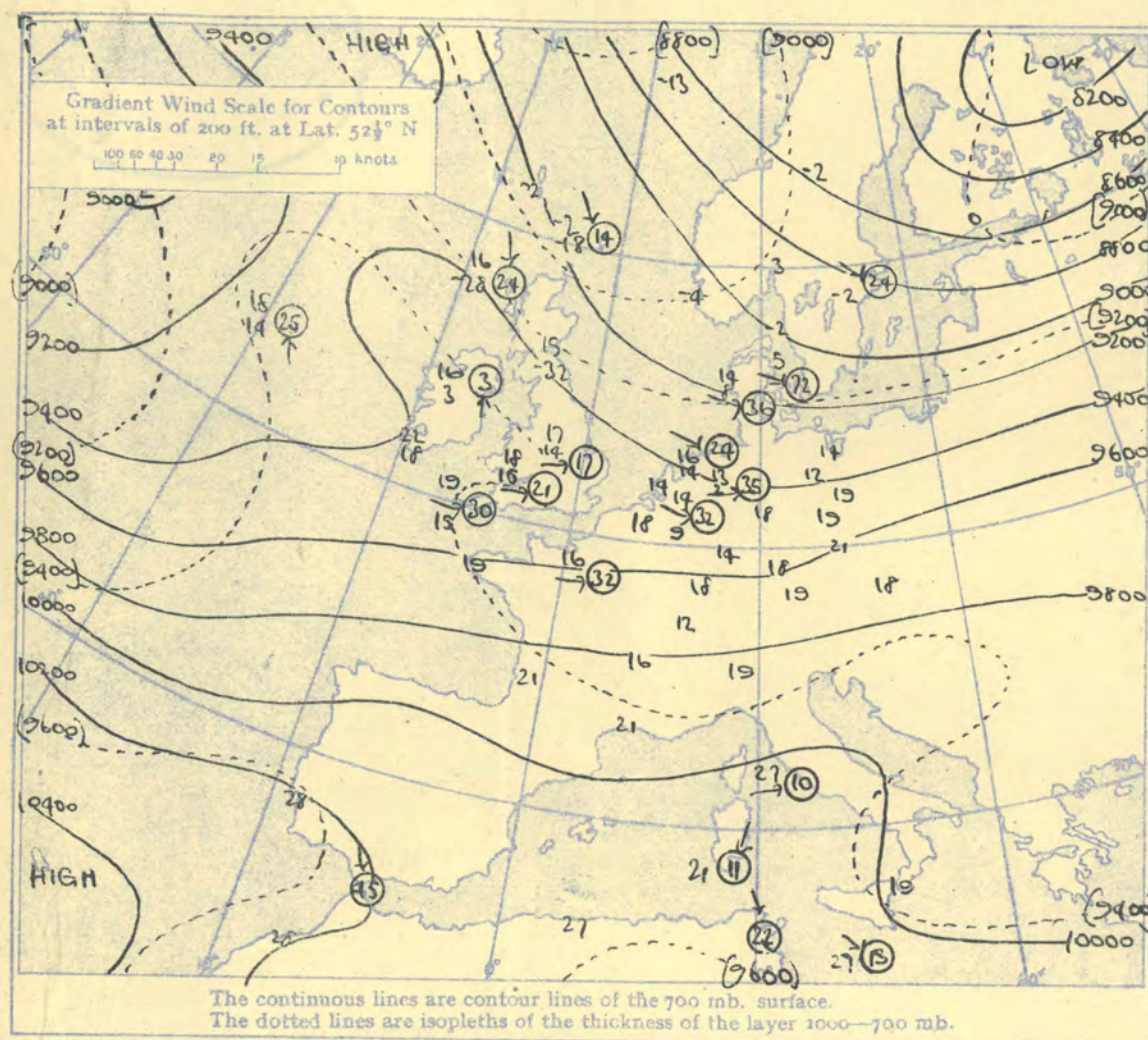
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000-mb. at about 1500 h. G.M.T. Thursday 23rd February 1950.



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 0300 G.M.T.



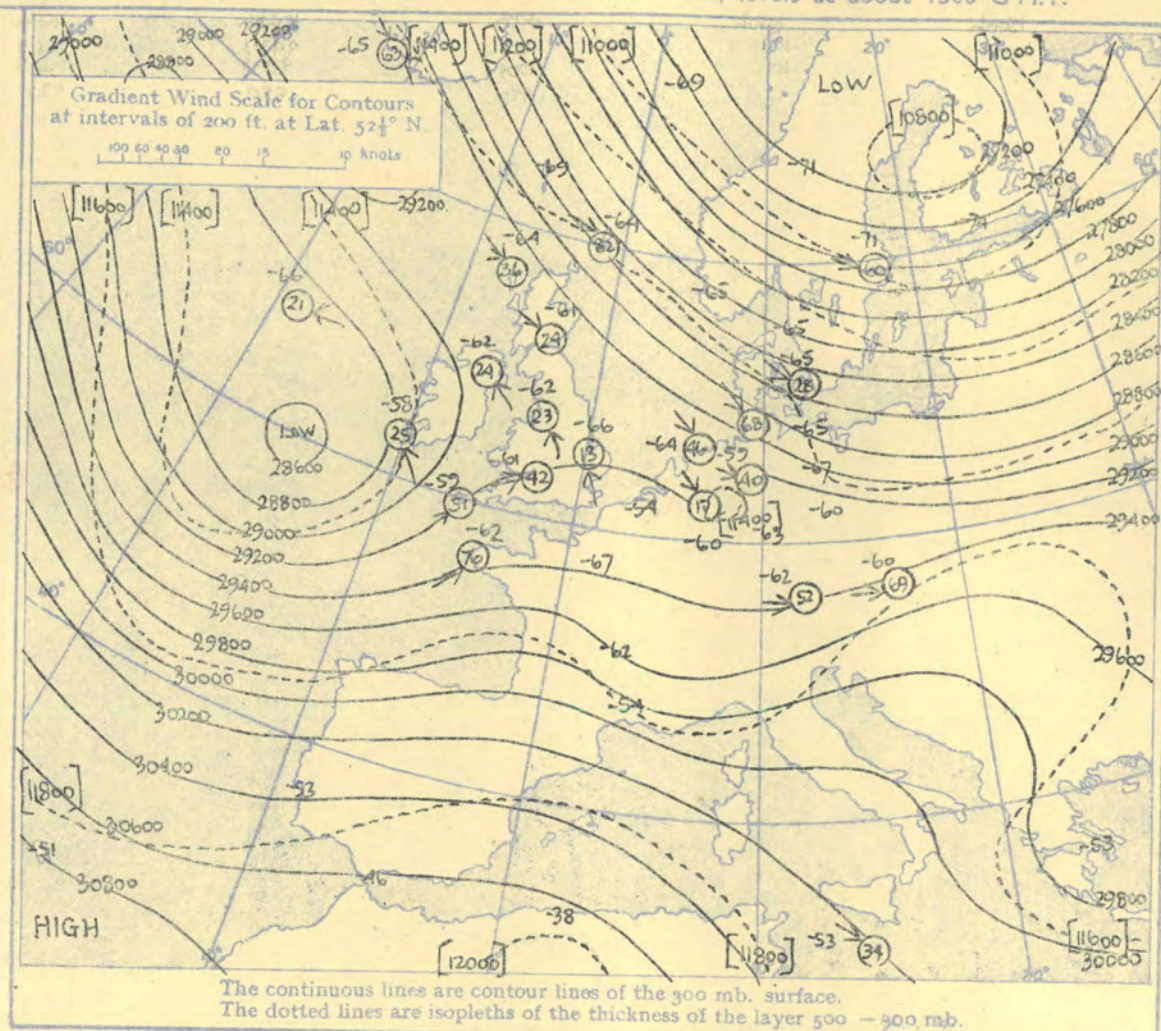
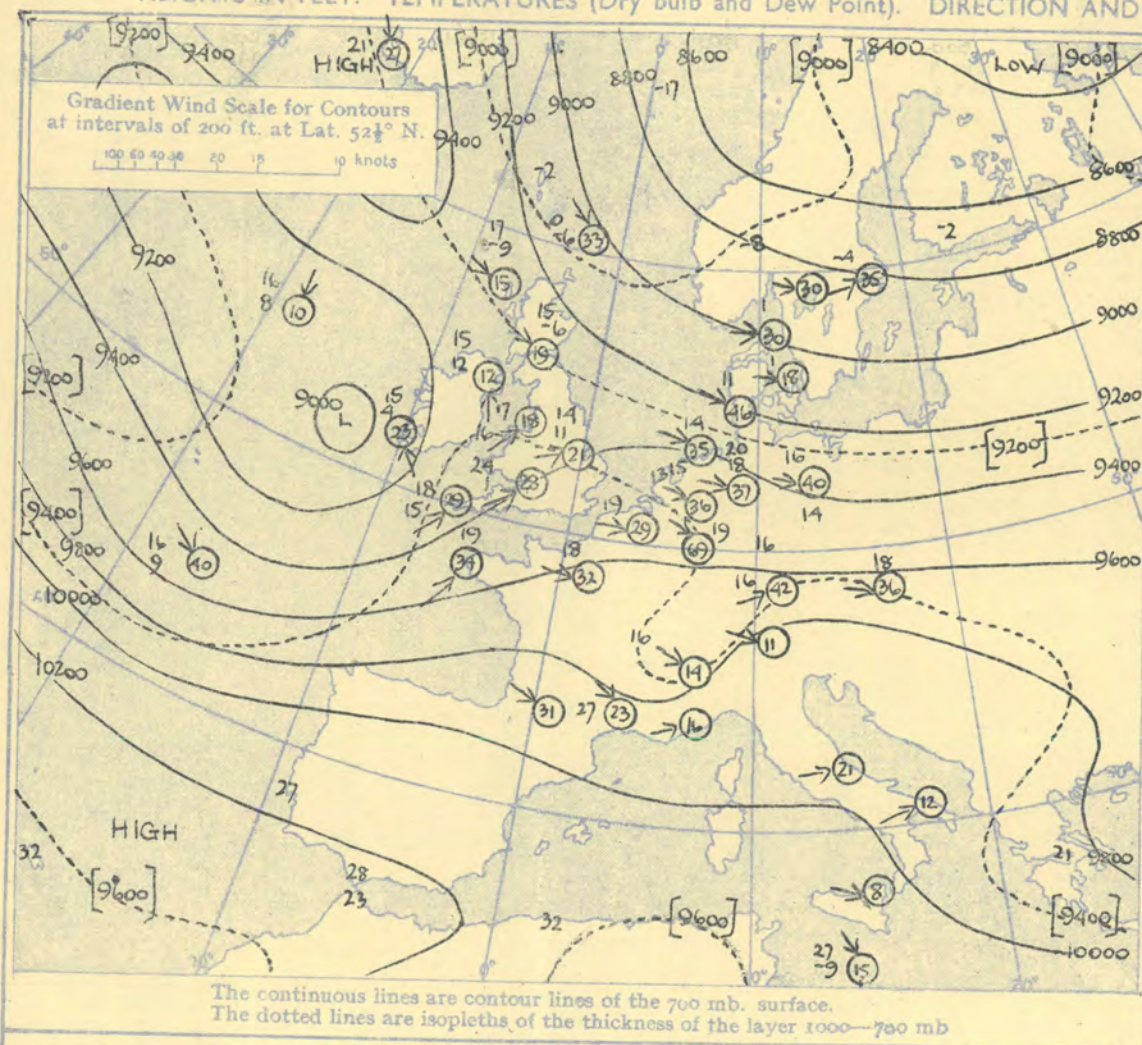
AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY																				DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.																																																	
51°3'N 00°4'E										39°6'N 12°2'W										43°1'N 17°0'W																																																	
Time M.S.L. 1009.4 mb										Time M.S.L. 1022 mb										Time M.S.L. 1016 mb																																																	
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RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

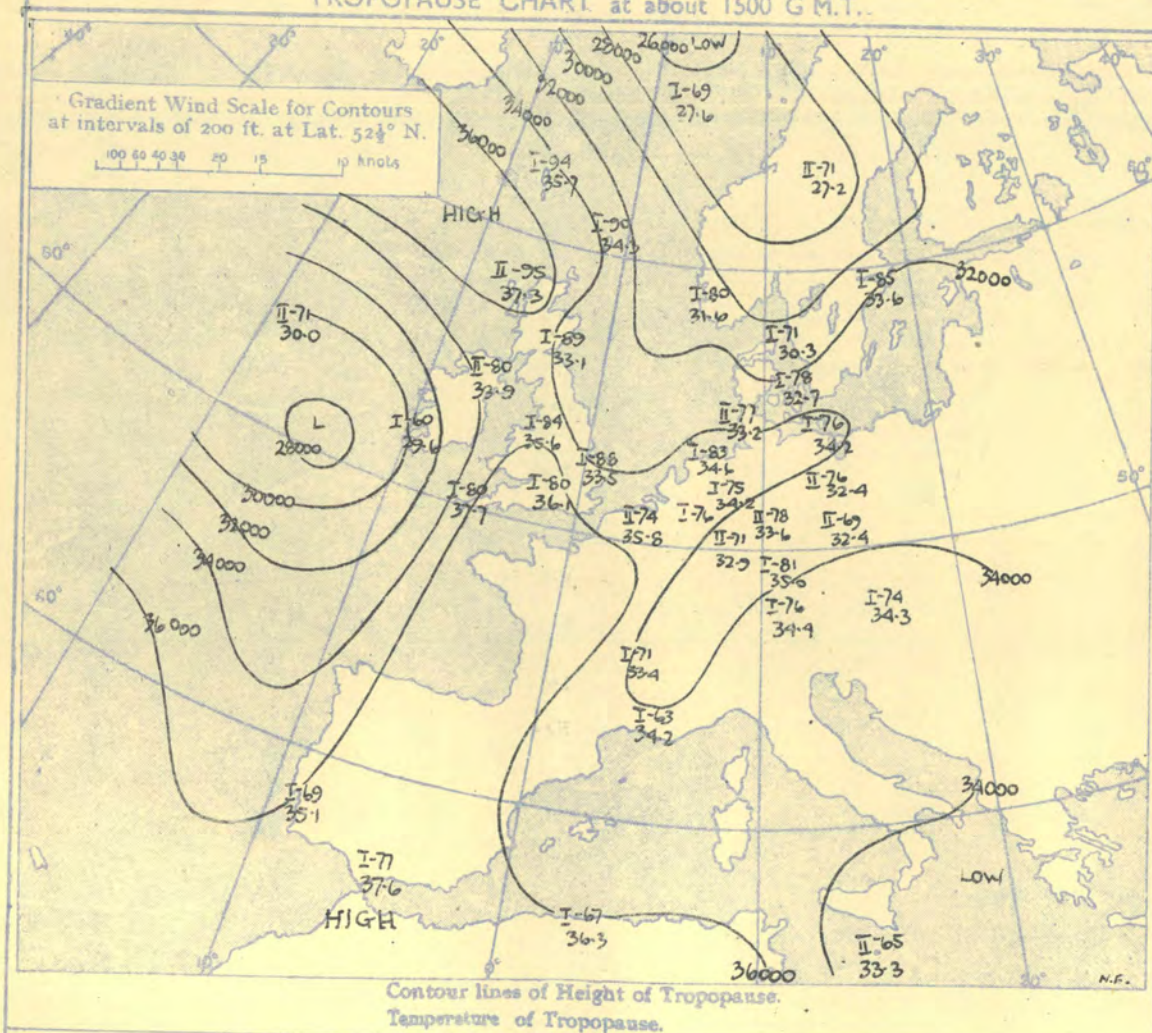
Friday 24th February 1950

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION							
Time M.S.L. Surf Freezing	Pressure mb	03h		G.M.T.		03h		G.M.T.		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											
		Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.												
1000	950	900	850	800	750	700	650	600	550	500	450	400	350	300	250	200	170	150	130	110	90	80	70	60	500	450	400	350	300	250	200	170	150	130	110	90	80	70	60						
Inversion		732.4 - 03° - 700.6 - 02°		673.0 - 07° - 650.0 - 06°		Isothermal		650 - 631 mb - 0.0°		516 - 500 - -2.4°		II 261 mb - 79°		32300'		I 207 mb - 94°		36700'		II 224 mb - 87°		35000'		I 240 mb - 83°		33500'		II 272 mb - 73°		31200'		II 247 mb - 73°		33300'		I 234 mb - 71°		34700'		I 255 mb - 69°		32800'		Tropopause	
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION							
Time M.S.L. Surf Freezing	Pressure mb	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. Surf Freezing											
		Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.	Temp.	Dew	Wind	Vel.												
1000	950	900	850	800	750	700	650	600	550	500	450	400	350	300	250	200	170	150	130	110	90	80	70	60	500	450	400	350	300	250	200	170	150	130	110	90	80	70	60						
Isothermal		768 - 722 - 1°		Inversion		1005 mb 32° - 985 mb 33°		785 - 06° - 750 - 19°		Inversion		950 mb 35° - 919 mb 37°		(85) - 69°		Isothermal		953 - 935 mb 42°		659 - 650 - 10°		Isothermal		978 - 960 mb 44°		Isothermal		760 mb 25° - 725 mb 26°		Inversion		760 mb 25° - 725 mb 26°		Tropopause											
I 220 mb - 91°		31700'		I 208 mb - 98°		36400'		I 222 mb - 86°		35800'		I 213 mb - 79°		36500'		I 223 mb - 79°		35500'		I 225 mb - 76°		35200'		I 219 mb - 73°		35800'		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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

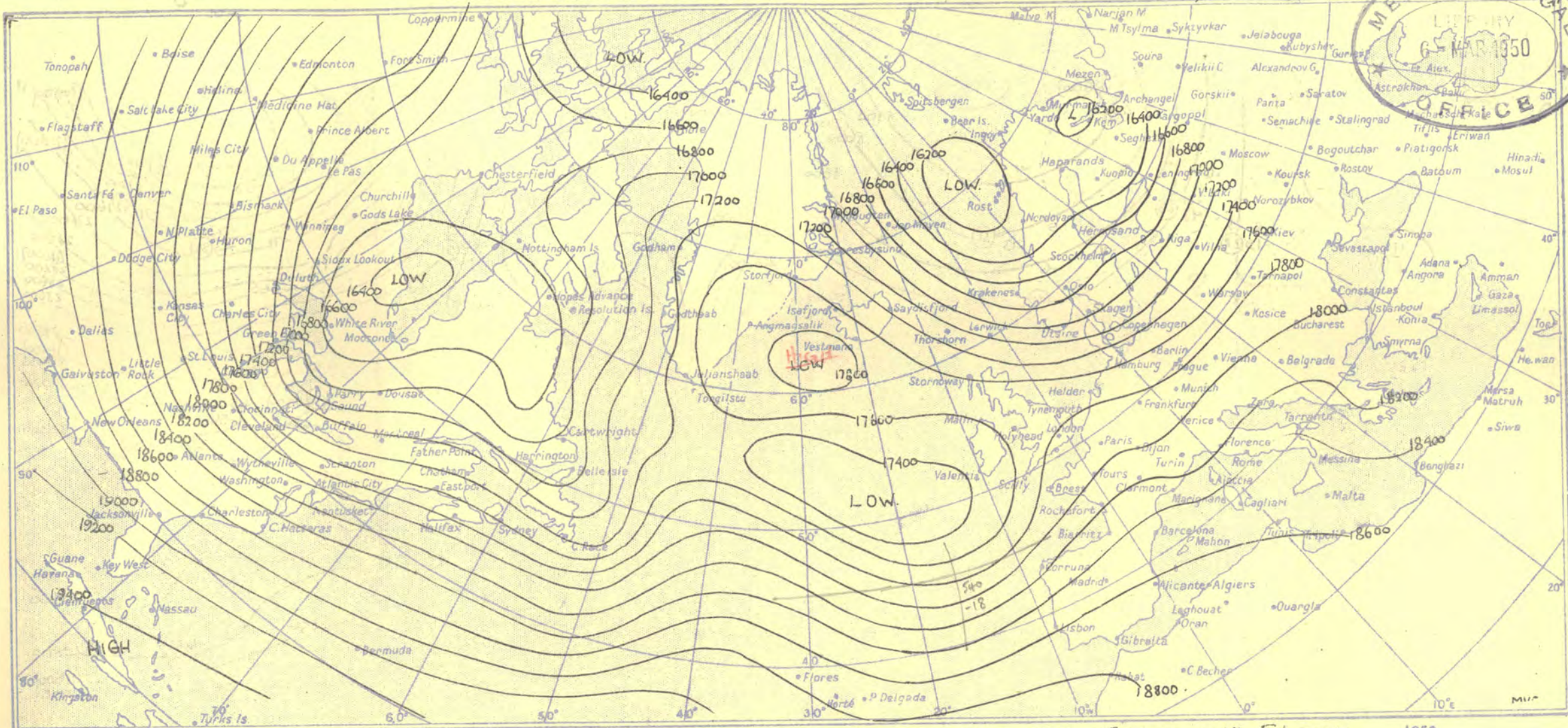


NOTES ON THE AEROLOGICAL SITUATION.

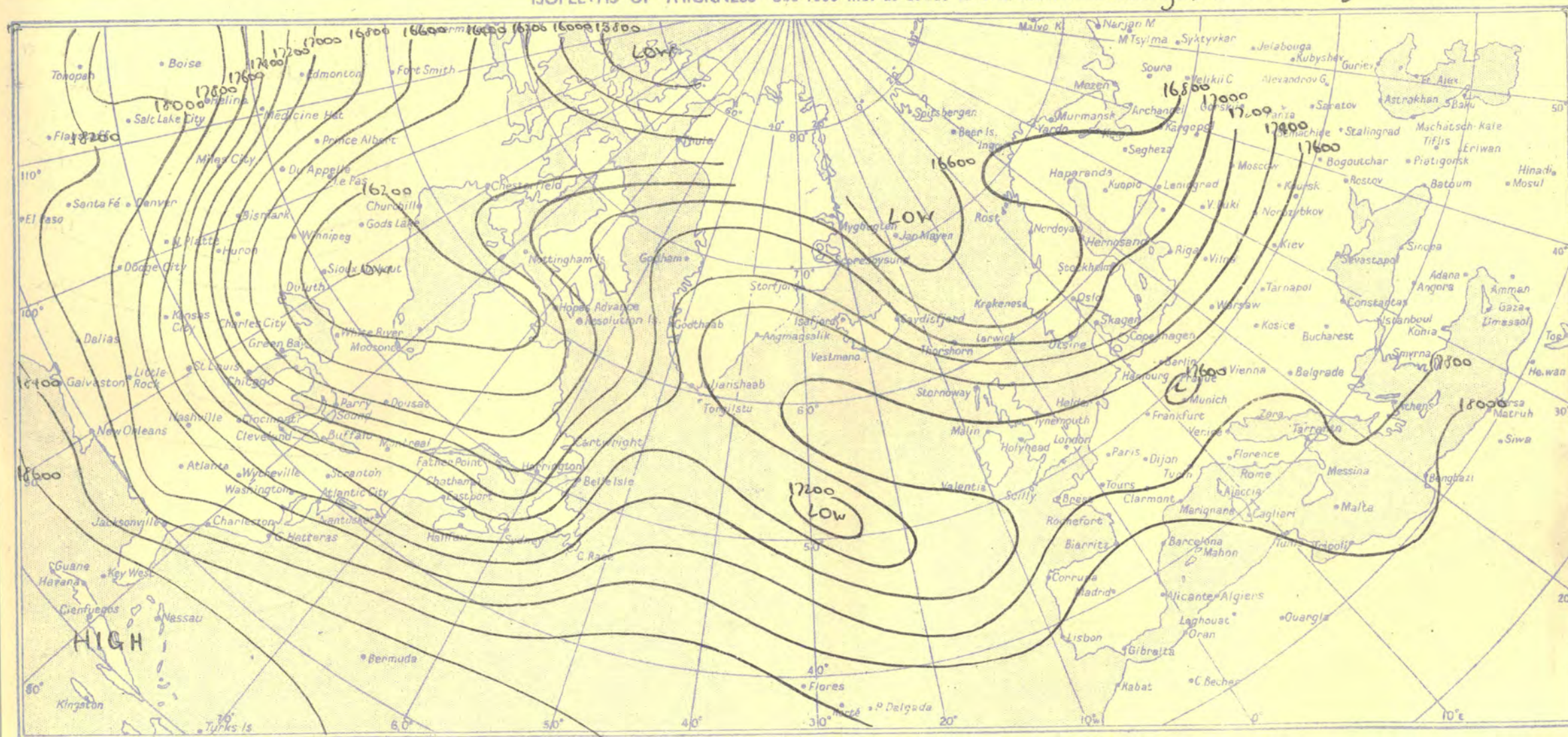
The cold trough in the Atlantic warmed out rapidly and a small cold pool was cut off and moved to the Bay of Biscay. Fresh cold air spread from Canada into the West Atlantic later. Further cooling took place over Scandinavia and somewhat colder air spread southwards into the British Isles.

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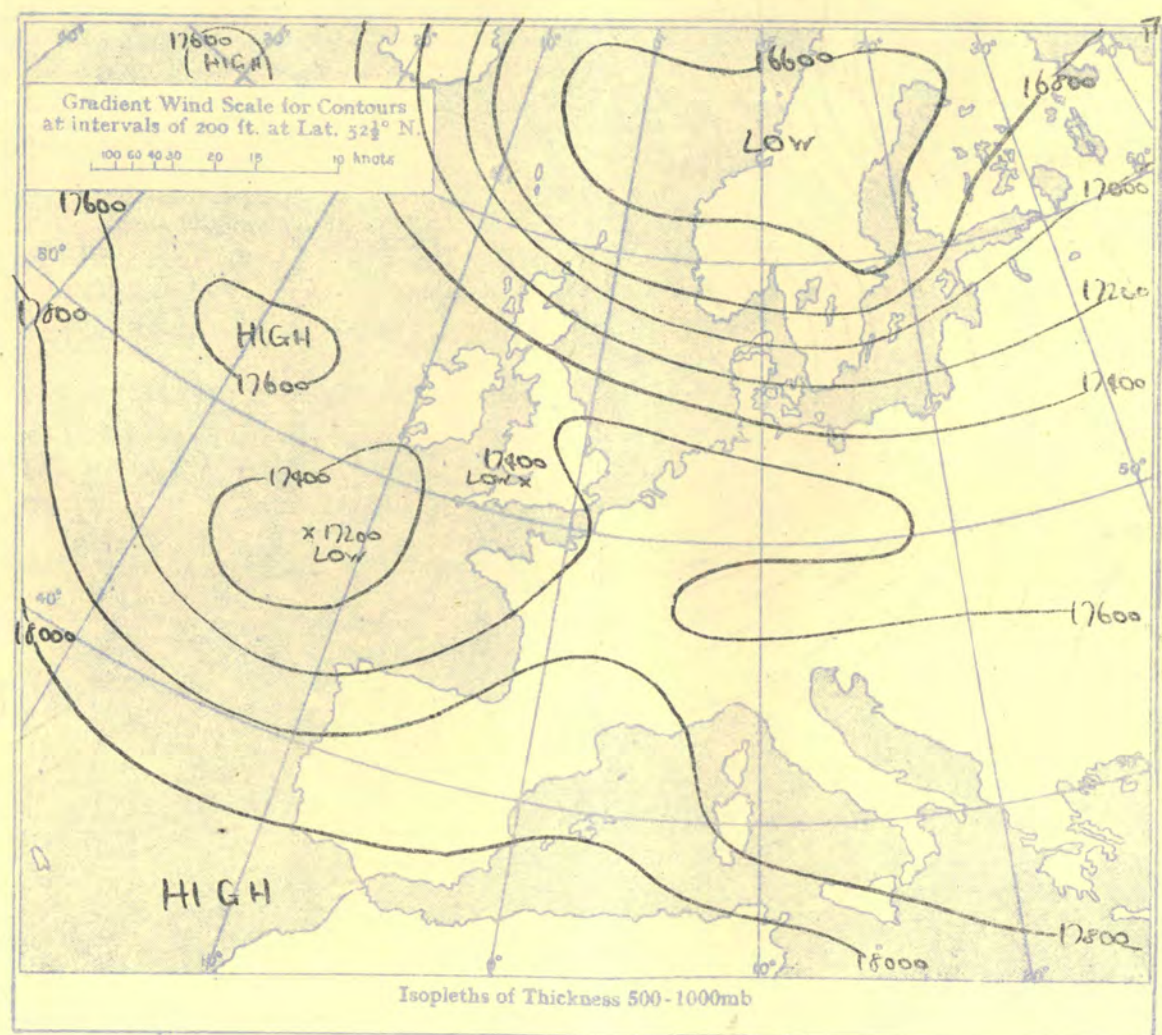
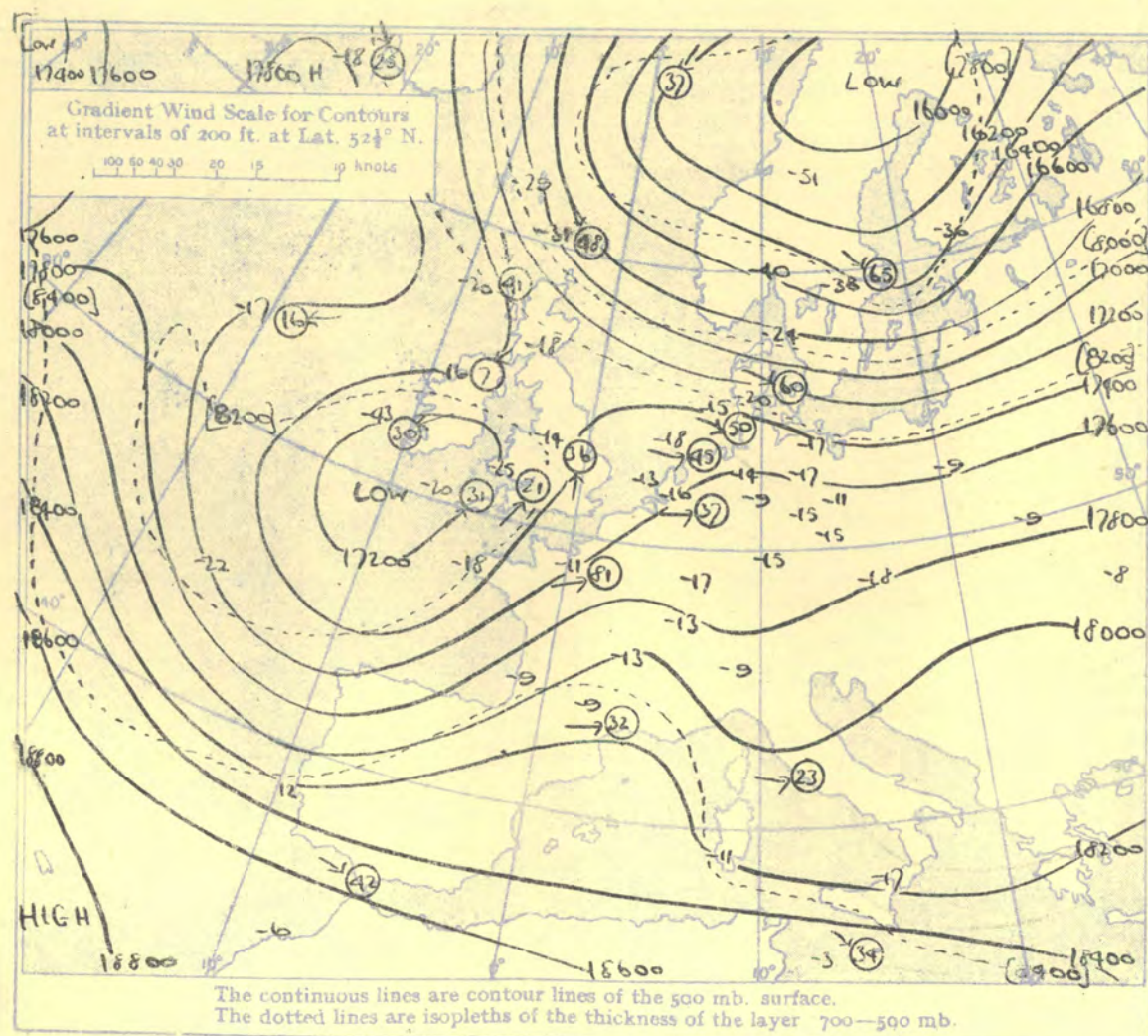
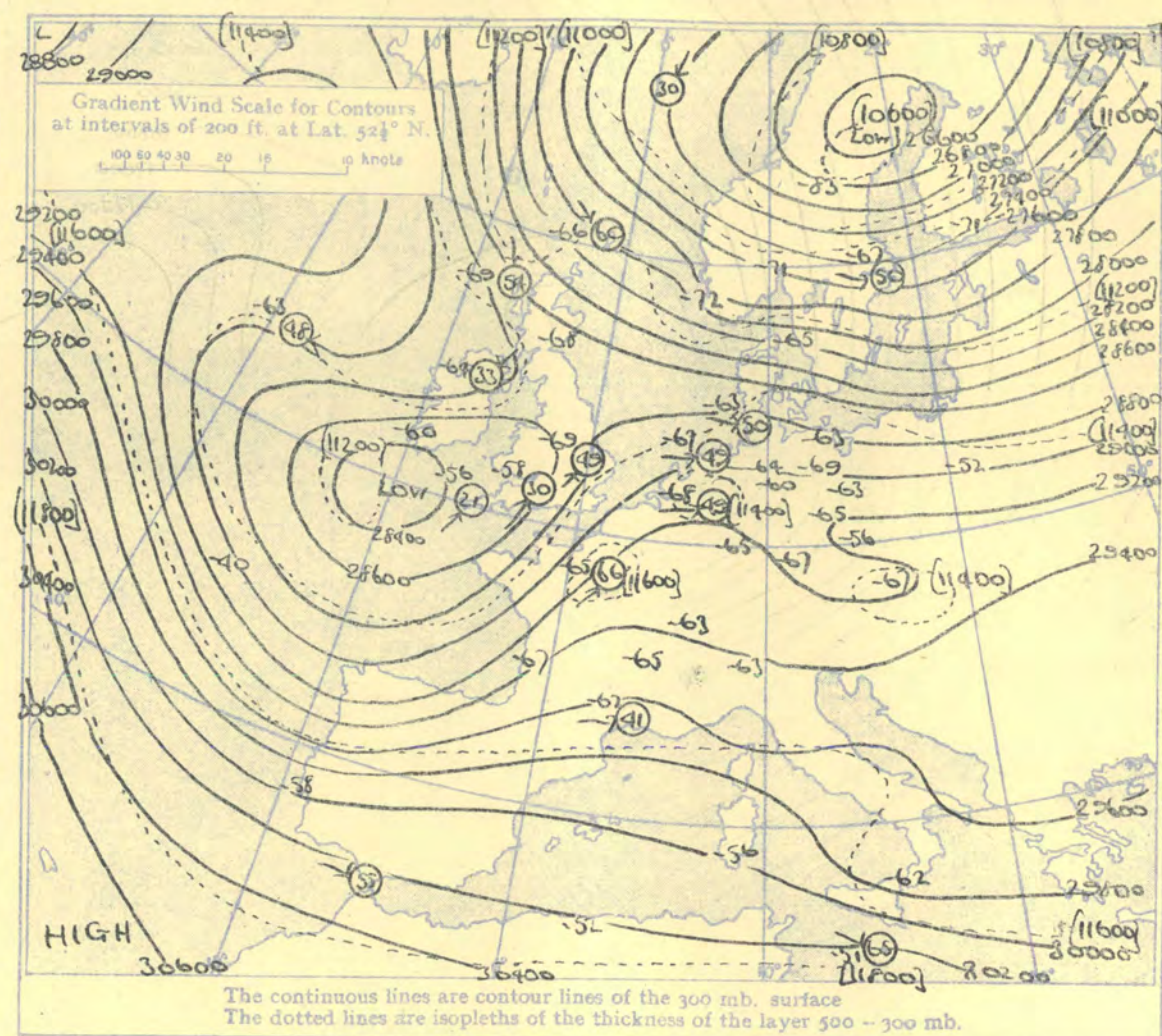
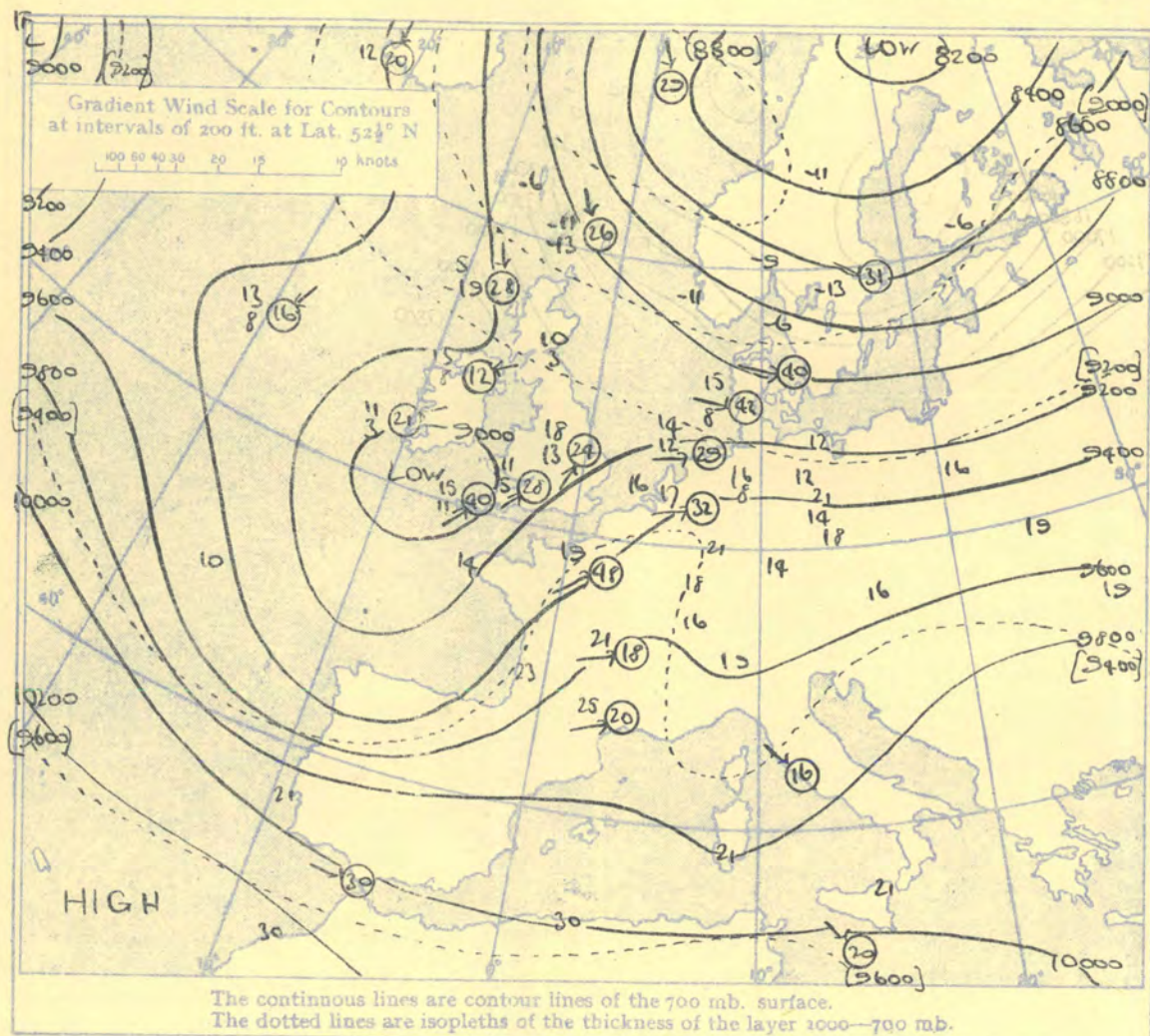
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Friday 24th February 1950.



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 0300 G.M.T.



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 WATCHER				WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER				Ship																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Lat/Long	60-1N 20-2W				53-8N 18-6W				60-1N 20-4W				53-8N 18-7W				60-0N 20-1W				53-8N 18-6W				60-0N 19-8W				53-8N 18-7W				G.M.T.				Time	Pressure																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Time	24 th Feb 15 ^h G.M.T.				24 th Feb 15 ^h G.M.T.				24 th Feb 21 ^h G.M.T.				24 th Feb 21 ^h G.M.T.				25 th Feb 03 ^h G.M.T.				25 th Feb 03 ^h G.M.T.				25 th Feb 09 ^h G.M.T.				25 th Feb 09 ^h G.M.T.				G.M.T.	M.S.L.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Surf	1007 mb				992 mb				1010 mb				994 mb				1011 mb				999 mb				1012 mb				1006 mb				mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	

Saturday 25th February 1950

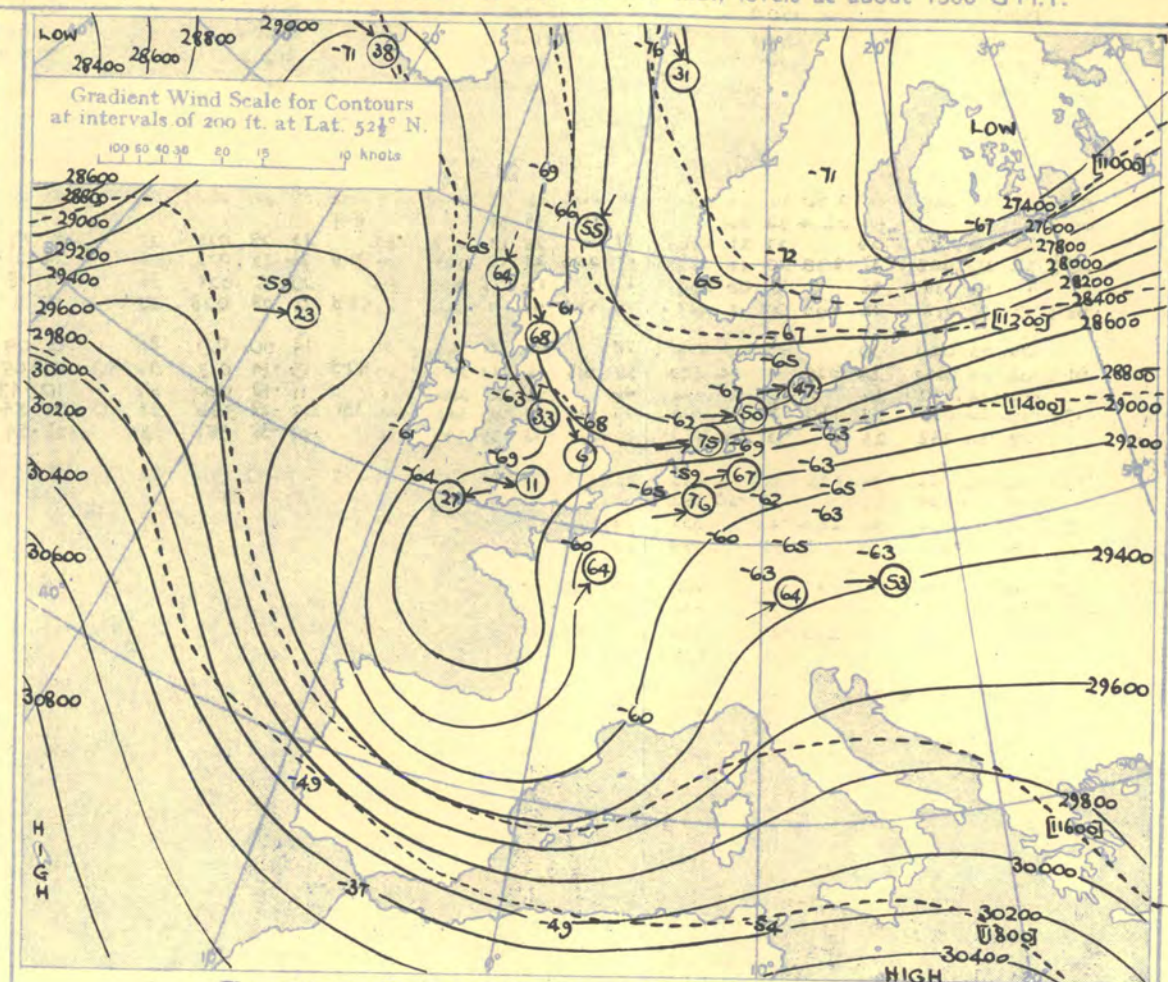
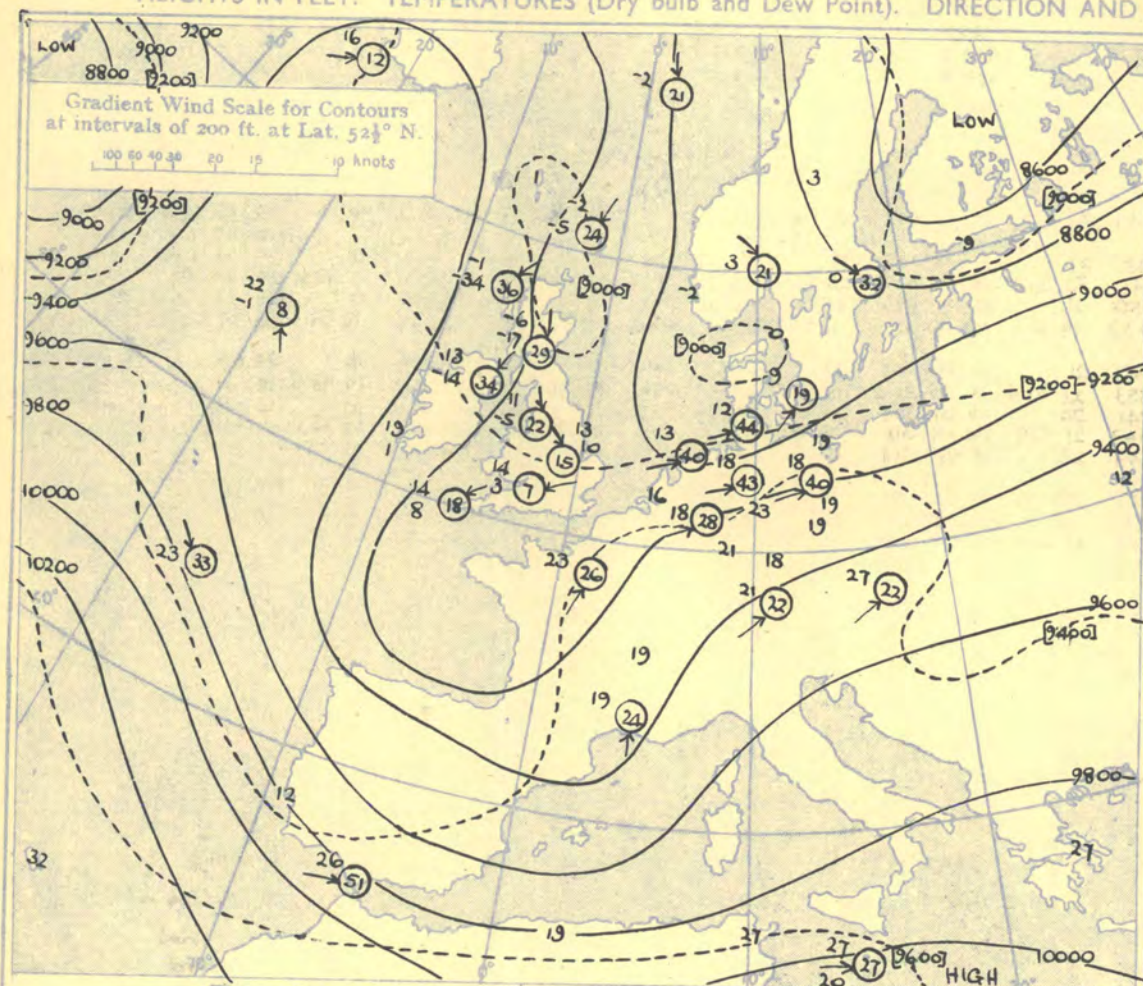
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION		
Pressure	Time M.S.L. Surf Freezing	0300h.		G.M.T.		0300h.		G.M.T.		0300h.		G.M.T.		0300h.		G.M.T.		0300h.		G.M.T.		0300h.		G.M.T.		0300h.		G.M.T.		0300h.		G.M.T.		Time M.S.L. Surf Freezing						
		1002-4	mb	1004-7	mb	1002-7	mb	1001-9	mb	998-5	mb	993-2	mb	988-7	mb	993-0	mb	988-0	mb	982-0	mb	982-0	mb	982-0	mb	982-0	mb	982-0	mb	982-0	mb	982-0	Time M.S.L. Surf Freezing							
		992-0	mb	992-0	mb	992-0	mb	992-0	mb	992-0	mb	992-0	mb	992-0	mb	992-0	mb	992-0	mb	992-0	mb	992-0	mb	992-0	mb	992-0	mb	992-0	mb	992-0	mb	992-0			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	1.7	25	23	260	11	0.5	32	25	0.40	20	0.2	34	25	2.3	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	Surf	
1000	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	1000	
950	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	950	
900	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	900	
850	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	850	
800	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	800	
750	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	750	
700	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	700	
650	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	650	
600	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	600	
550	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	550	
500	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	500	
450	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	450	
400	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	400	
350	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	350	
300	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	300	
250	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	250	
200	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	200	
170	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	170	
150	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	150	
130	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	130	
110	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	110	
100	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	100	
90	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	90	
80	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	80	
70	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	70	
60	0.6	21	13	348	24	1.2	32	28	0.5	34	28	0.1	37	34	37	34	0.60	20	1.2	47	46	170	09	4.4	40	39	225	07	2.9	43	41	150	14	0.3	40	36	350	0.4	60	
Inversion.		668 mb -17° - 642 mb -15°		Inversion.		748 mb 06° - 717 mb 07°		Isothermal.		818 mb - 750 mb 12°		Isothermal.		950 - 907 mb 32°								Inversion.		977 mb 40° - 970 mb 41°								Inversion.		988 mb 40° - 974 mb 42°		Isothermal.		418 mb - 375 mb 46°		
Tropopause		II 223 mb - 77°		I 102 mb - 90°		NR.		I 224 mb - 83°				I 250 mb - 80°		I 400 mb - 51°		I 340 mb - 62°		I 250 mb - 73°		Tropopause																				
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION		
Pressure	Time M.S.L. Surf Freezing	0900h.		G.M.T.		0900h.		G.M.T.		0900h.		G.M.T.		0900h.		G.M.T.		0900h.		G.M.T.		0900h.		G.M.T.		0900h.		G.M.T.		0900h.		G.M.T.		Time M.S.L. Surf Freezing						
		1002-0	mb	1006-5	mb	1004-6	mb	1000-6	mb	991-7	mb	994-0	mb	991-9	mb	994-0	mb	992-1	mb	986-7	mb	986-7	mb	986-7	mb	986-7	mb	986-7	mb	986-7	mb	986-7	Time M.S.L. Surf Freezing							
		991-6	mb	991-6	mb	991-6	mb	991-6	mb	991-6	mb	991-6	mb	991-6	mb	991-6	mb	991-6	mb	991-6	mb	991-6	mb	991-6	mb	991-6	mb	991-6	mb	991-6	mb	991-6			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	2.7	25	24	340	18	0.5	31	24	0.5	31	24	0.5	31	24	0.5	31	24	0.5	31	24	0.5	31	24	0.5	31	24	0.5	31	24	0.5	31	24	0.5	31	24	0.5	31	24	0.5	Surf
1000	0.5	21	18	356	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	1000
950	0.5	21	18	356	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	31	24	1.7	950
900	0.5	21	18	356	24	1.7	31	24																																

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

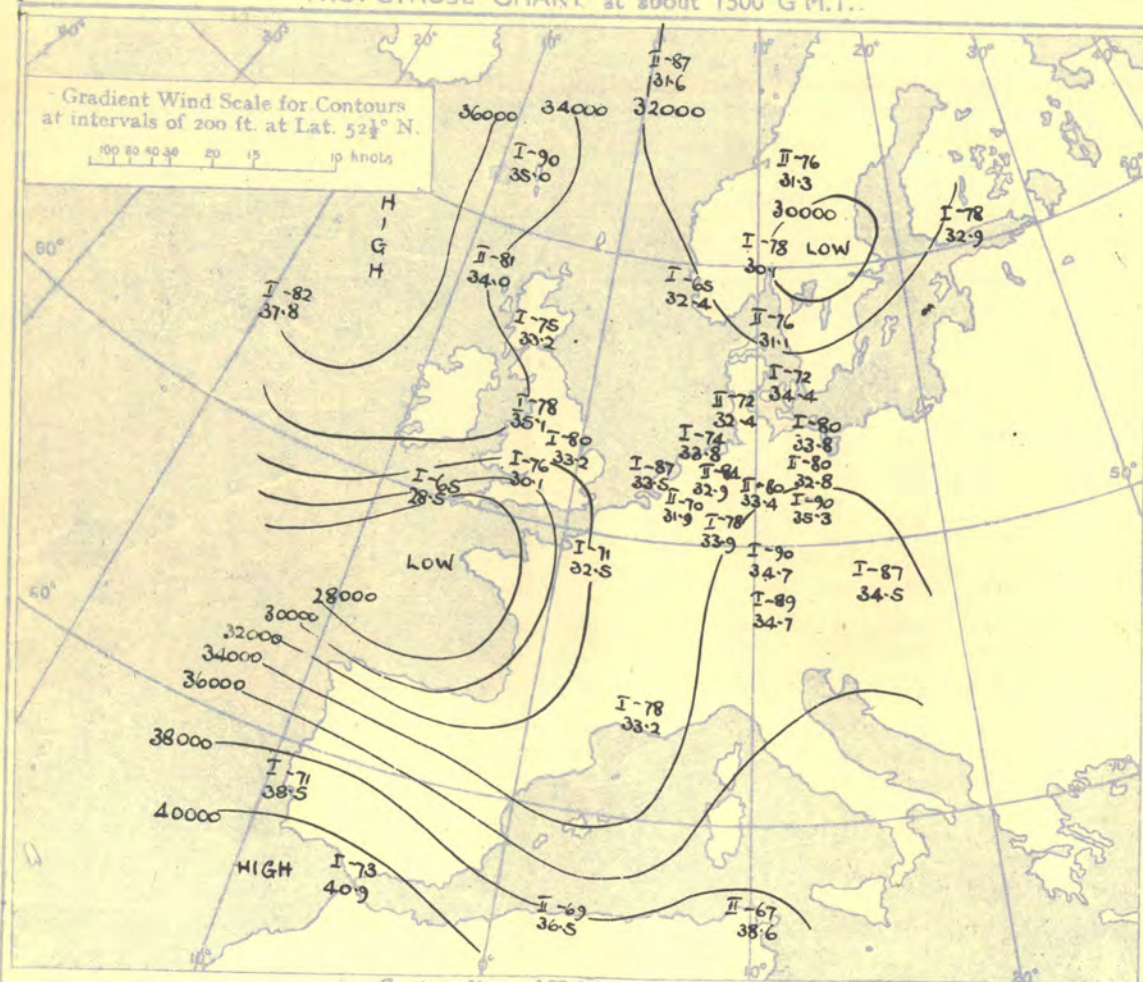
Saturday 25 February 1950

STATION	LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION			
Pressure Time M.S.L. Surf Freezing	1500 G.M.T.				1500 G.M.T.				1500 G.M.T.				1500h G.M.T.				1500h G.M.T.				1500h G.M.T.				1500h G.M.T.				1500h G.M.T.				1500h G.M.T.				1500h G.M.T.			
	1002.8 mb				1009.0 mb				1004.6 mb				1004.9 mb				997.1 mb				994.3 mb				992.1 mb				991.3 mb				1002.6 mb				1001.8 mb			
	992.6 mb				1007.1 mb				1003.7 mb				996.2 mb				997.0 mb				989.9 mb				976.2 mb				980.9 mb				1001.8 mb				1001.8 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	32	31	360 20	0.50	35	27	010 15	002	36	27	360 18	02.3	38	35	060 19	00.6	37	30	047 20	01.2	38	36	015 25	04.4	43	42	020 20	02.9	49	46	023 06	00.3	42	35	030 23	Surf			
1000	00.7	29	26	359 39	02.4	34	26	016 17	011	35	31	008 27	0.9	33	28	023 27	0.3	31	27	045 27	-1.5	31	28	035 27	-2.1	40	38	029 18	-2.5	44	41	021 12	7.0	42	35	031 23	1000			
950	28.2	22	20	008 37	29.8	20	16	023 17	28.6	21	13	005 29	28.6	26	22	022 24	27.5	24	21	041 30	26.3	26	23	034 26	26.1	35	32	035 12	26.0	38	34	023 17	28.6	29	23	027 25	950			
900	17	16	015	35	13	08	030	17	13	07	003	29	20	15	028	23	19	18	050	26	24	22	025	20	31	25	043	09	35	30	028	18	29	12	027	900				
850	58.1	12	11	018	35	59.5	07	-1	041	19	58.5	07	-1	360	30	58.8	12	08	028	25	57.6	15	11	033	19	56.6	20	19	322	11	56.7	26	25	034	18	54.4	30	08	850	
800	05	03	020	30	05	-25	036	28	01	-8	353	31	13	09	007	21	16	15	308	13	16	15	308	13	20	17	060	07	21	12	035	16	24	04	750					
750	01.2	02	05	026 24	9.25	-1	34	029 36	9.13	-6	-17	349 29	9.25	13	-14	012 34	9.12	11	-05	353 22	9.04	13	10	302 15	9.10	14	03	056 07	9.10	14	03	056 07	9.10	14	03	056 07	700			
700	10	14	032	26	-6	-41	014	46	-7	-41	014	46	-7	-41	014	46	-7	-41	014	46	-7	-41	014	46	-7	-41	014	46	-7	-41	014	46	-7	-41	014	46	650			
650	12.8	19	24	035 27	13.0	-7	-41	003 55	12.8	-15	-25	356 31	13.1	02	-28	356 38	13.0	02	-54	343 21	12.9	00	-11	318 15	12.9	01	-12	030 09	29.4	07	01	026 21	13.3	06	-29	027	600			
600	-28	-36	032	24	-13	-45	357	60	-13	-45	357	60	-13	-45	357	60	-13	-45	357	60	-13	-45	357	60	-13	-45	357	60	-13	-45	357	60	-13	-45	357	60	550			
550	170	-36	-46	026 28	173	-22	-45	353 60	171	-20	-44	339 73	175	-17	-42	350 36	174	-14	-55	342 26	173	-16	30	271 12	173	-17	-39	287 18	173	-18	-35	027 25	177	-13	-54	027	500			
500	220	-44	020	35	224	-43	351	66	222	-39	-59	332 67	227	-34	-59	340 37	226	-36	-59	348 25	224	-36	-54	279 13	225	-39	-57	219 09	24.5	-40	-52	051 10	229	-37	-49	051	450			
450	282	-66	009	55	287	-66	350	64	285	-61	331	62	288	-63	333	33	287	-68	332	32	287	-71	333	30	287	-69	312	05	287	-69	312	05	287	-69	312	05	400			
400	282	-68	009	55	287	-77	354	58	269	-64	319	40	372	-73	333	30	370	-71	333	30	370	-71	333	30	370	-71	333	30	370	-71	333	30	370	-71	333	30	350			
350	282	-68	009	55	287	-73	305	54	-71	313	50	-70	307	34	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	300	
300	282	-68	009	55	287	-73	305	54	-71	313	50	-70	307	34	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	250	
250	282	-68	009	55	287	-73	305	54	-71	313	50	-70	307	34	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	200	
200	282	-68	009	55	287	-73	305	54	-71	313	50	-70	307	34	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	170	
170	282	-68	009	55	287	-73	305	54	-71	313	50	-70	307	34	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	150	
150	282	-68	009	55	287	-73	305	54	-71	313	50	-70	307	34	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	130	
130	282	-68	009	55	287	-73	305	54	-71	313	50	-70	307	34	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	110	
110	282	-68	009	55	287	-73	305	54	-71	313	50	-70	307	34	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	100	
100	282	-68	009	55	287	-73	305	54	-71	313	50	-70	307	34	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	90	
90	282	-68	009	55	287	-73	305	54	-71	313	50	-70	307	34	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	80	
80	282	-68	009	55	287	-73	305	54	-71	313	50	-70	307	34	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	70	
70	282	-68	009	55	287	-73	305	54	-71	313	50	-70	307	34	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	60	
60	282	-68	009	55	287	-73	305	54	-71	313	50	-70	307	34	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	-72	305	43	50	
For rest of wind see Page 5				Inversion 650mb - 625mb - 4°				Inversion 625mb - 20°				Inversion 785 mb 10° - 774 mb 14°				Inversion 763 mb 12° - 737 mb 14°				Inversion 688 10° - 667 12°				Isothermal 884 - 850 mb 24°				Isothermal 800 - 776 20°				Isothermal 728 - 700 13°				Isothermal 650 - 633 06°				

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

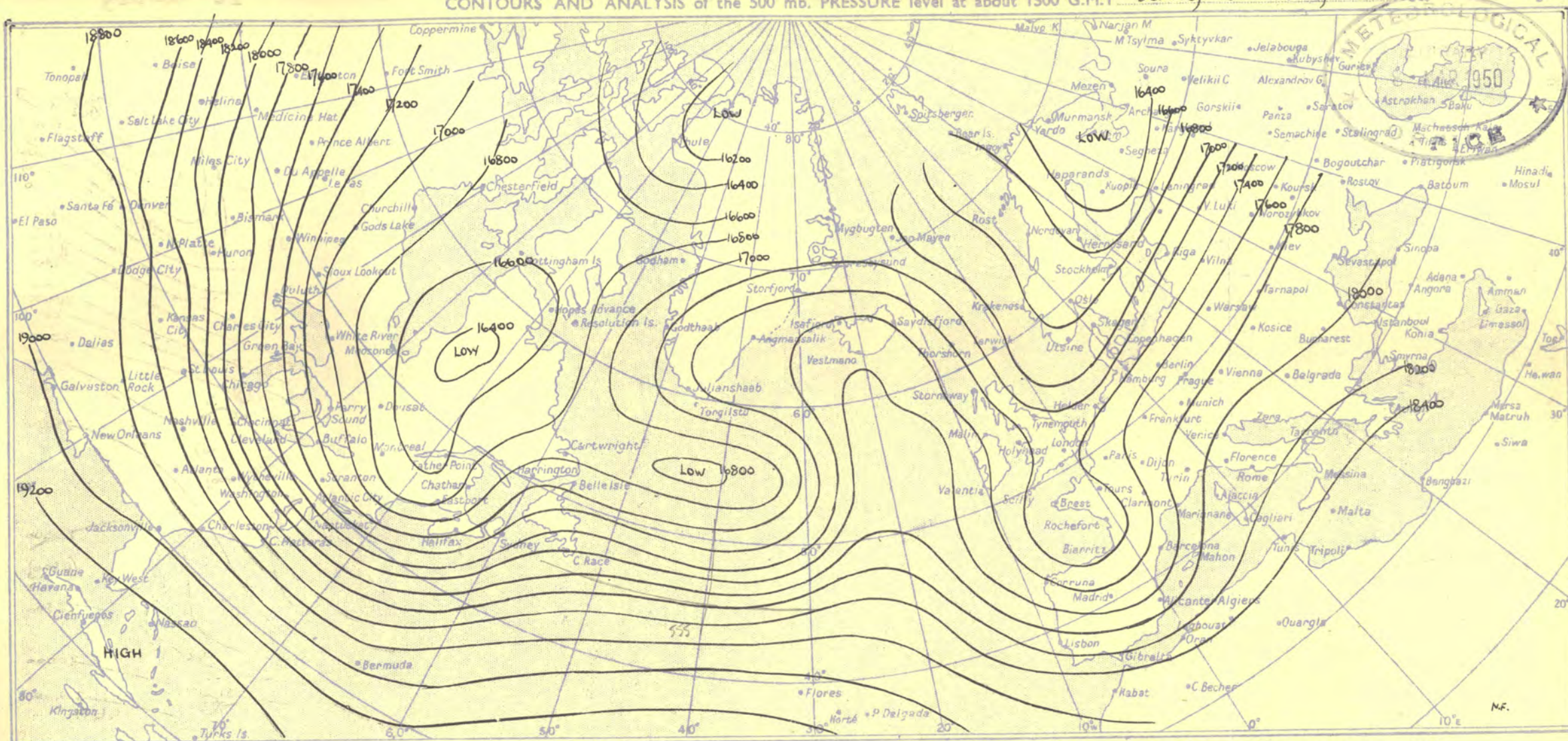


NOTES ON THE AEROLOGICAL SITUATION.

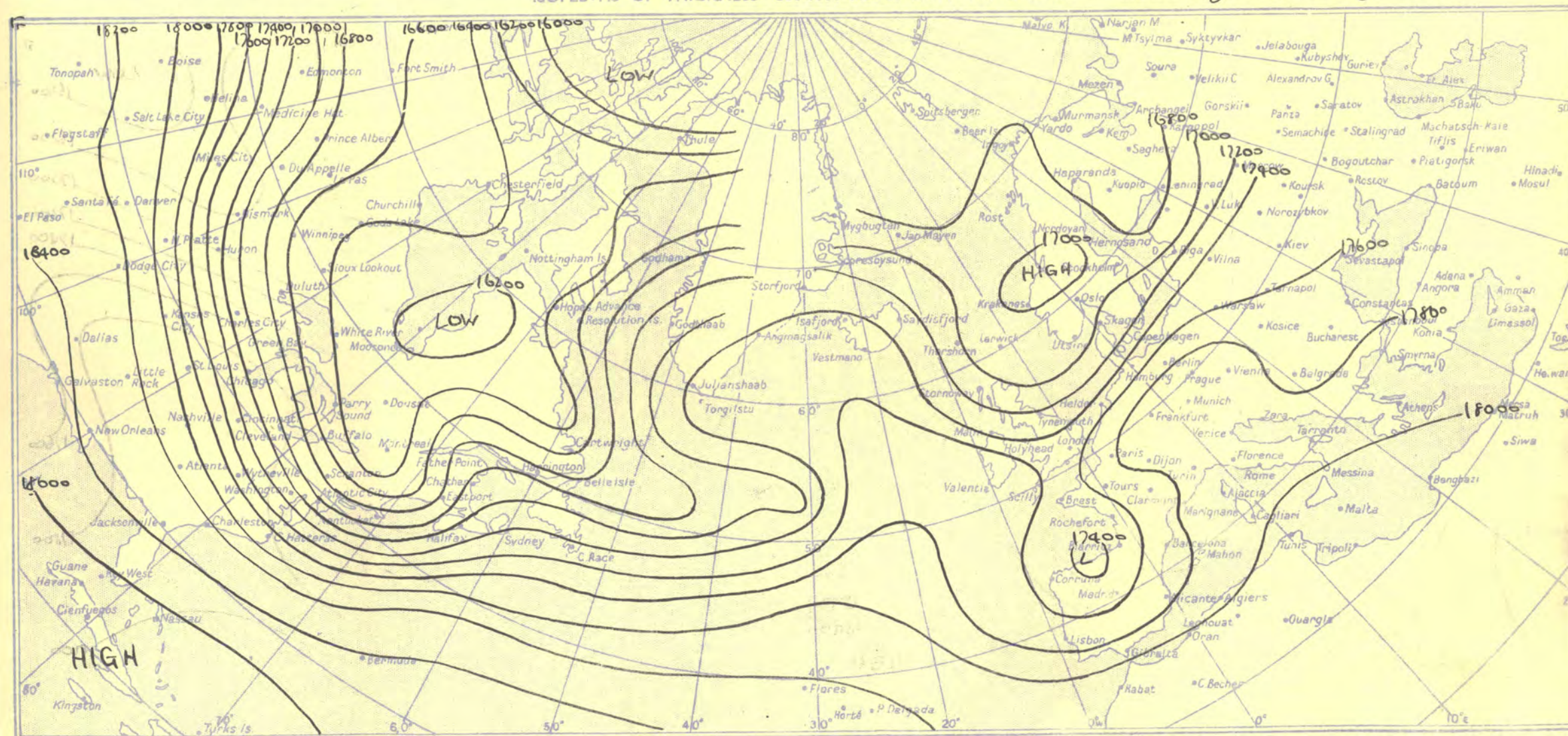
The small cold pool over the Bay of Biscay moved east-southeast and joined up with cold air which spread southwards from the British Isles and North Sea, eventually forming a pronounced cold tongue from the Baltic to the North Sea to the Western Mediterranean. Appreciable warming took place between Iceland and Scandinavia.

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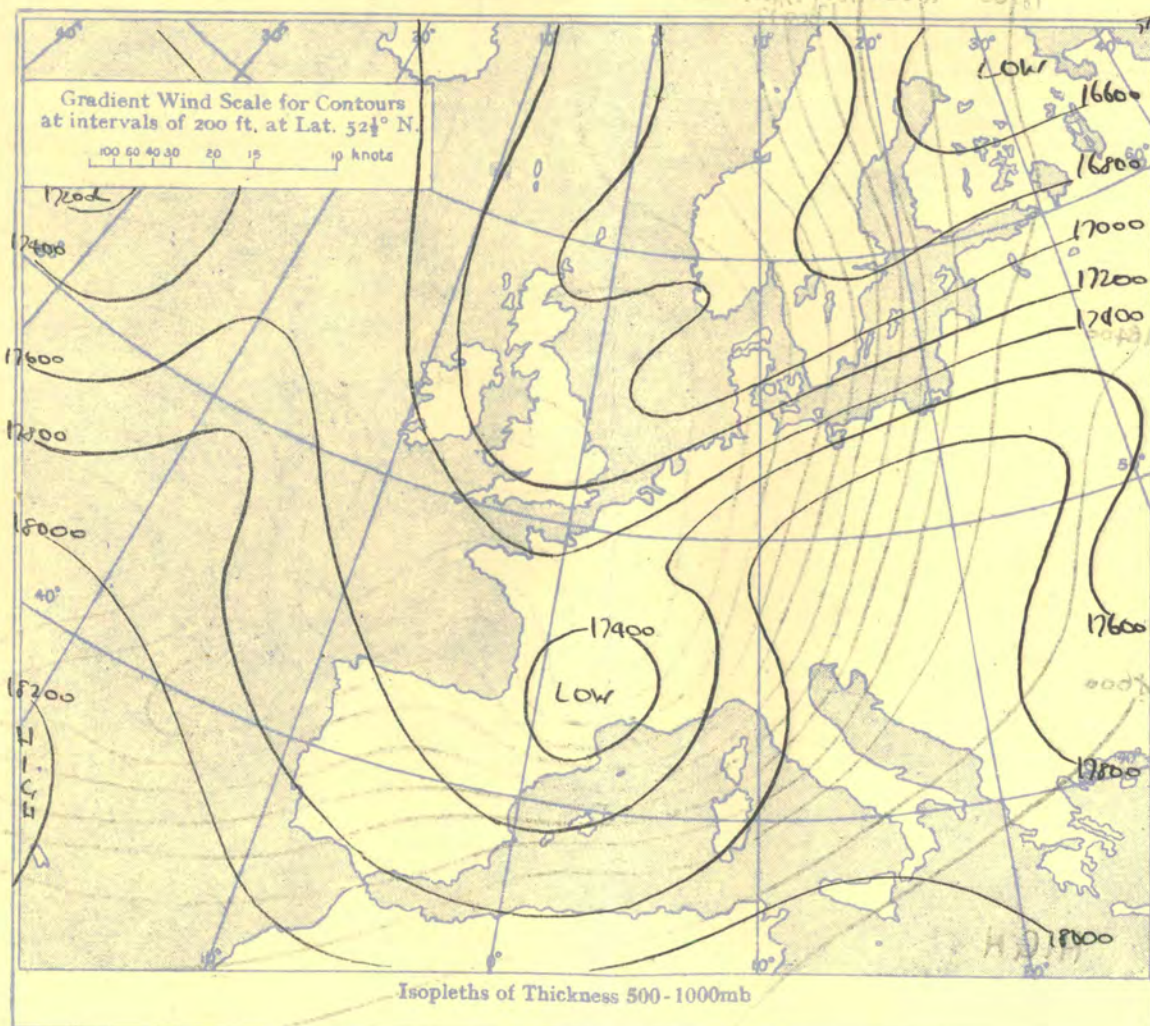
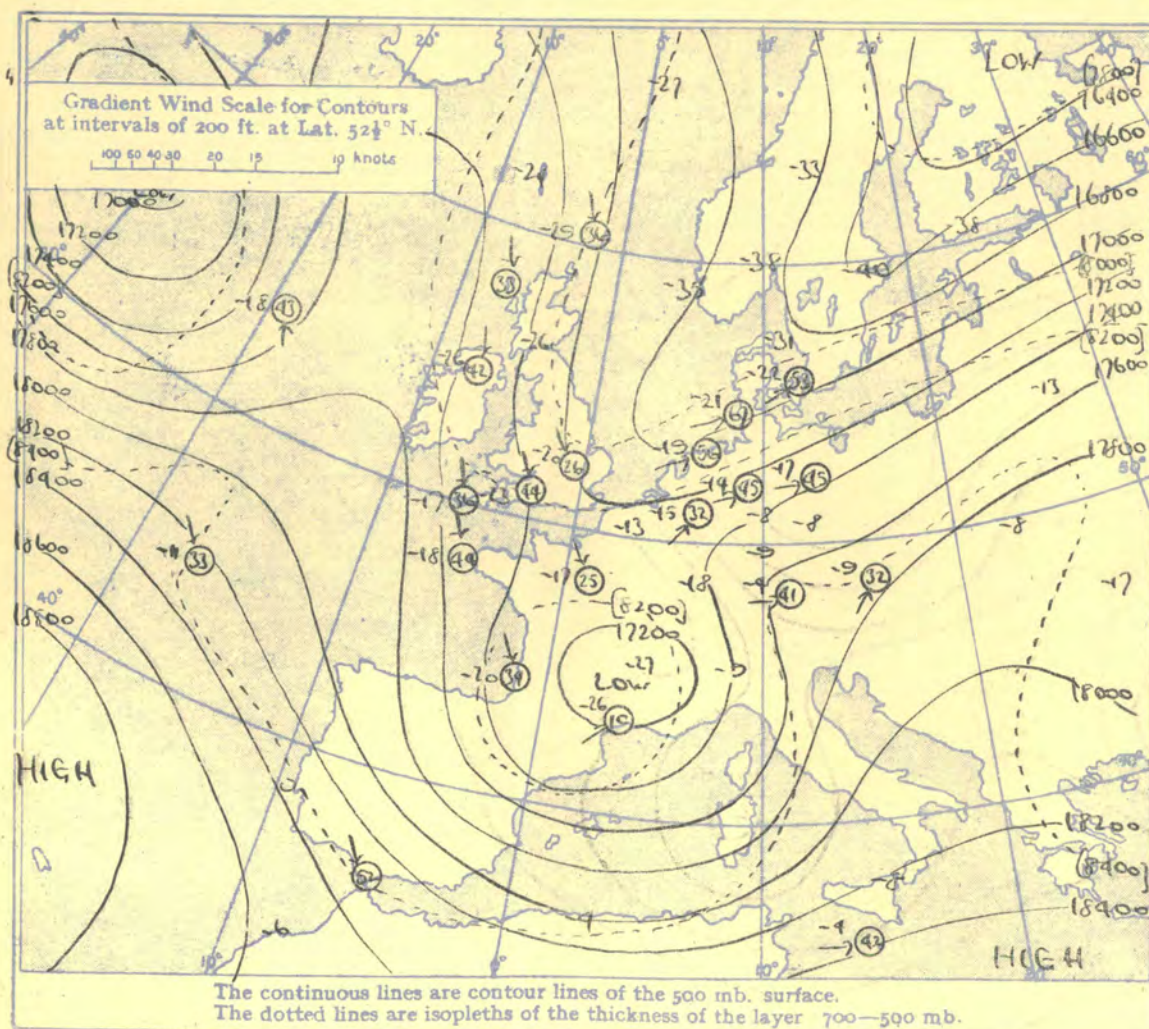
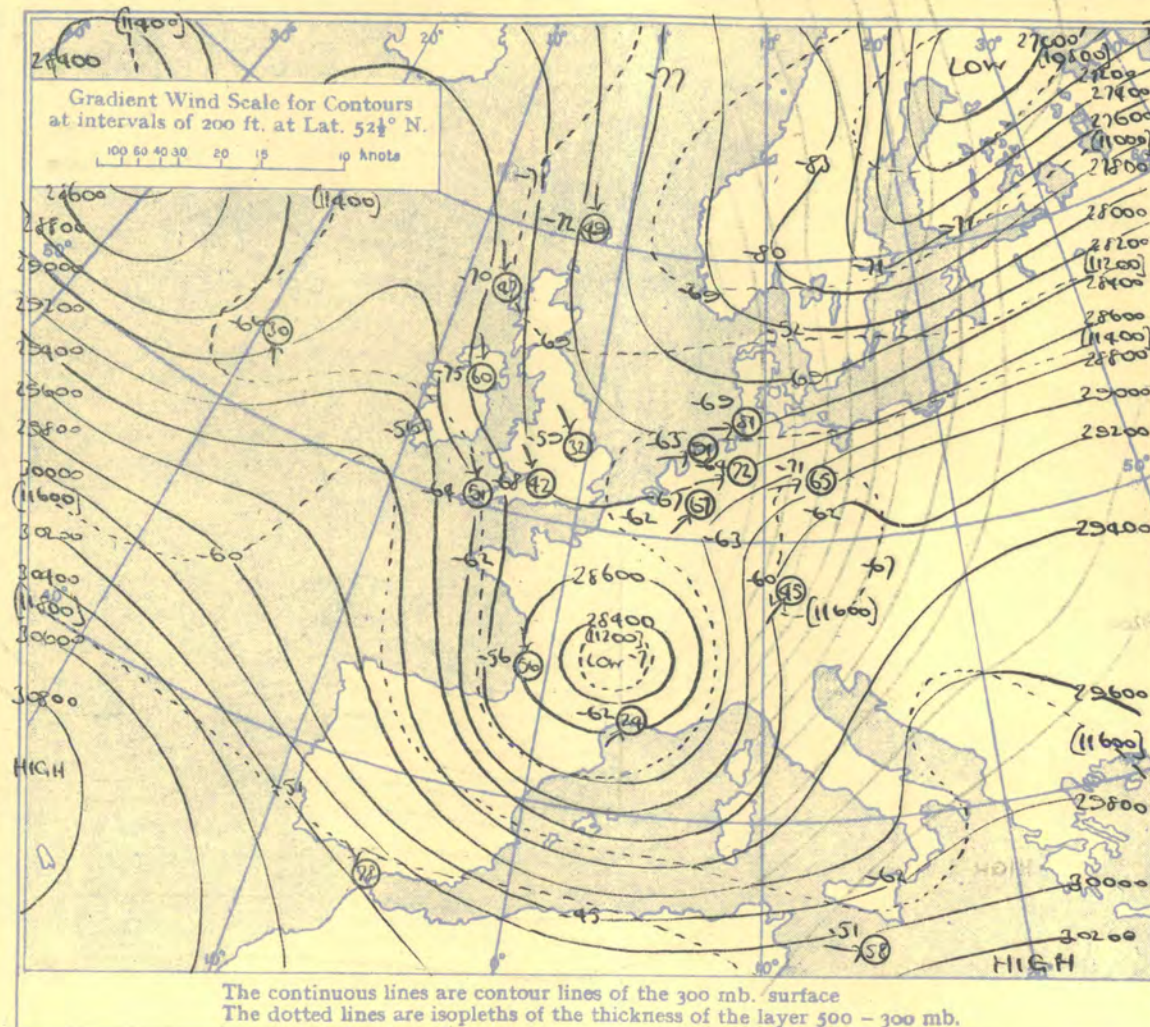
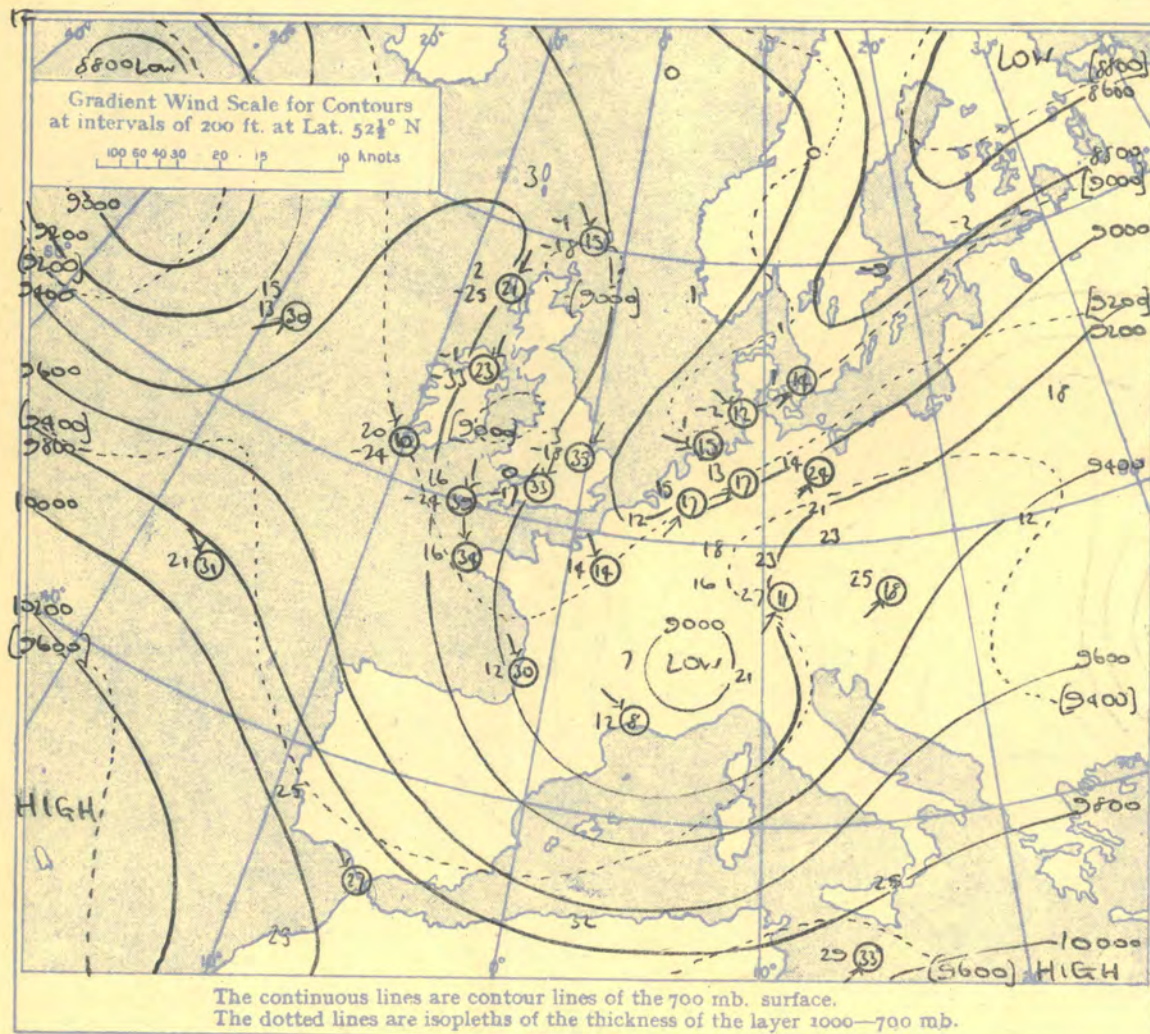
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Saturday 25th February 1950.



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 0300 G.M.T.



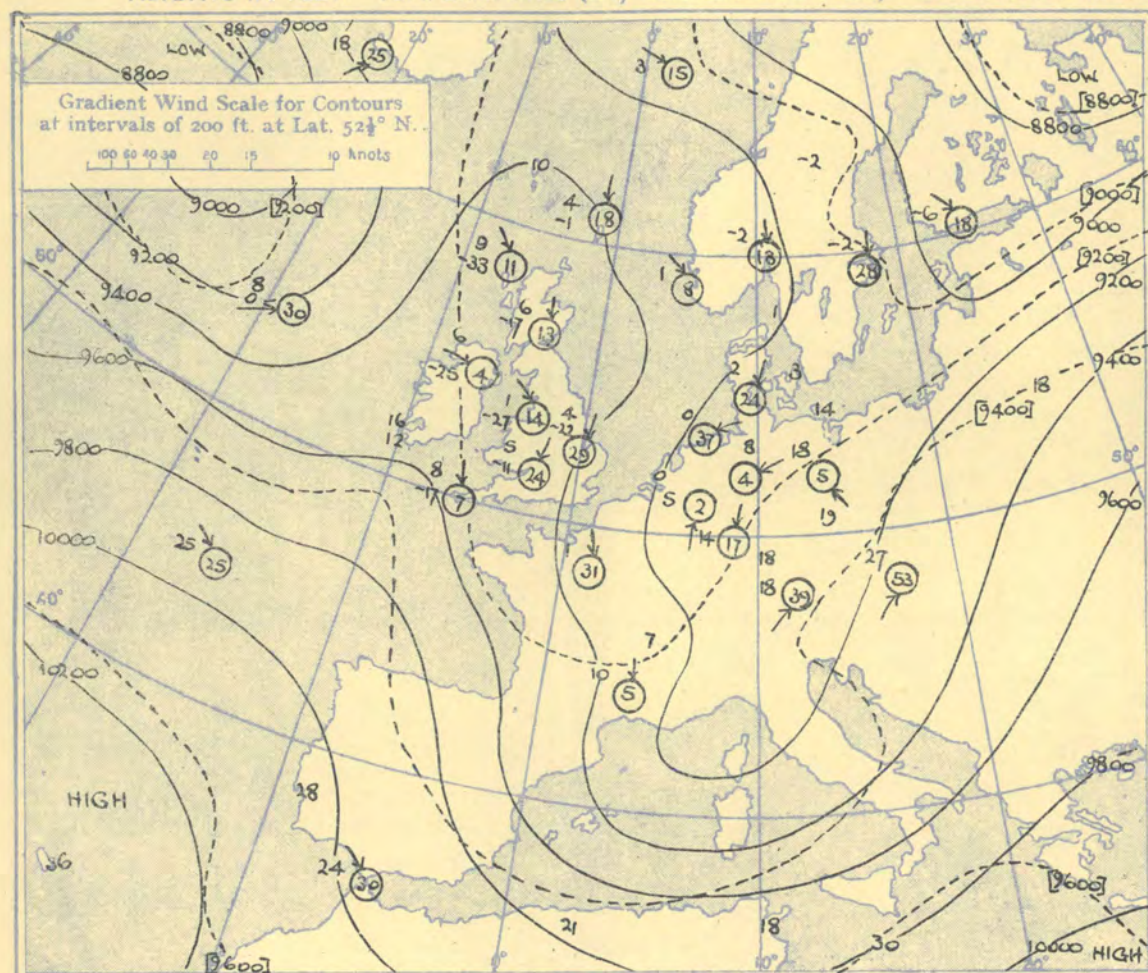
Sunday, 26th. February 1950

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				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	03h		G.M.T.	mb	Time M.S.L. Surf (Freezing)					
		1008.7	998.3			1013.3	1011.4			1010.3	1009.4			1013.1	1004.1			1003.9	999.2			1004.7	988.0			1007.5	996.6			1011									
Surf		02.7	29	29	292	11	0.5	34	27	310	03	00.2	32	25	02.3	28	21	060	03	01.2	32	27	360	09	4.4	29	25	030	07	02.9	36	27	045	14	00.3	31	27	090	05
1000		02.2	27	23	327	18	03.5	34	26	326	18	02.6	32	24	02.3	26	21	060	12	01.0	30	20	024	27	0.2	25	21	017	33	02.0	31	22	034	22	02.3	32	22	074	07
950		29.5	20	18	346	15	31.0	21	16	323	08	30.1	25	12	30.7	20	18	066	12	28.6	23	16	025	33	27.4	21	17	030	36	29.5	25	18	029	27	30.8	23	10	128	12
900		59.3	08	08	335	18	60.7	11	08	352	09	60.2	14	01	60.7	11	04	056	16	58.5	10	1	018	32	57.3	12	02	030	31	59.5	11	02	018	30	61.2	27	10	005	10
850																																							
800																																							
750		03.07	33.2		15	09	16	360	15	09	06				04.21	046	15																						
700		01.16	33.7		15	02.25	004	21	93.5	02.13					01.33	035	23																						
650		06.26	34.7		20	03.34	358	26		05.19					01.33	022	33																						
600		12.35	35.4		27	05.24	352	31	131	13.28					07.36	005	36																						
550		21.41	35.3		25	15.22	355	33		19.36					16.42	356	41																						
500		29.46	35.0		36	23.30	356	33	174	26.42					26.50	356	42																						
450		38.52	35.3		39	33.39	356	38		35.51					38.60	354	43																						
400		48	35.7		44	45	354	46	224	46					45	354	45																						
350		60	35.7		49	58	354	45	57						62	353	51																						
300		284	72		359	49	287	70	350	47	286	69			286	75	341	60																					
250		84	354		51	77	345	49							367	83	338	48																					
200		84	340		47	370	341	45	370	74					80	310	42																						
170		80	328		48	77	320	30	74																														
150		82	328		48	428	323	36	74						426	82	337	38																					
130		84	325		43	79	317	39	78																														
110		84	321		51	84	330	51	81																														
100		505	84		319	52	510	84	339	56	511	82																											
90		87	311		50	83	344	75	83																														
80		90	320		49	84																																	
70		91																																					
60		Inversion																																					
		758	402°	-740	404°																																		
																																	</						

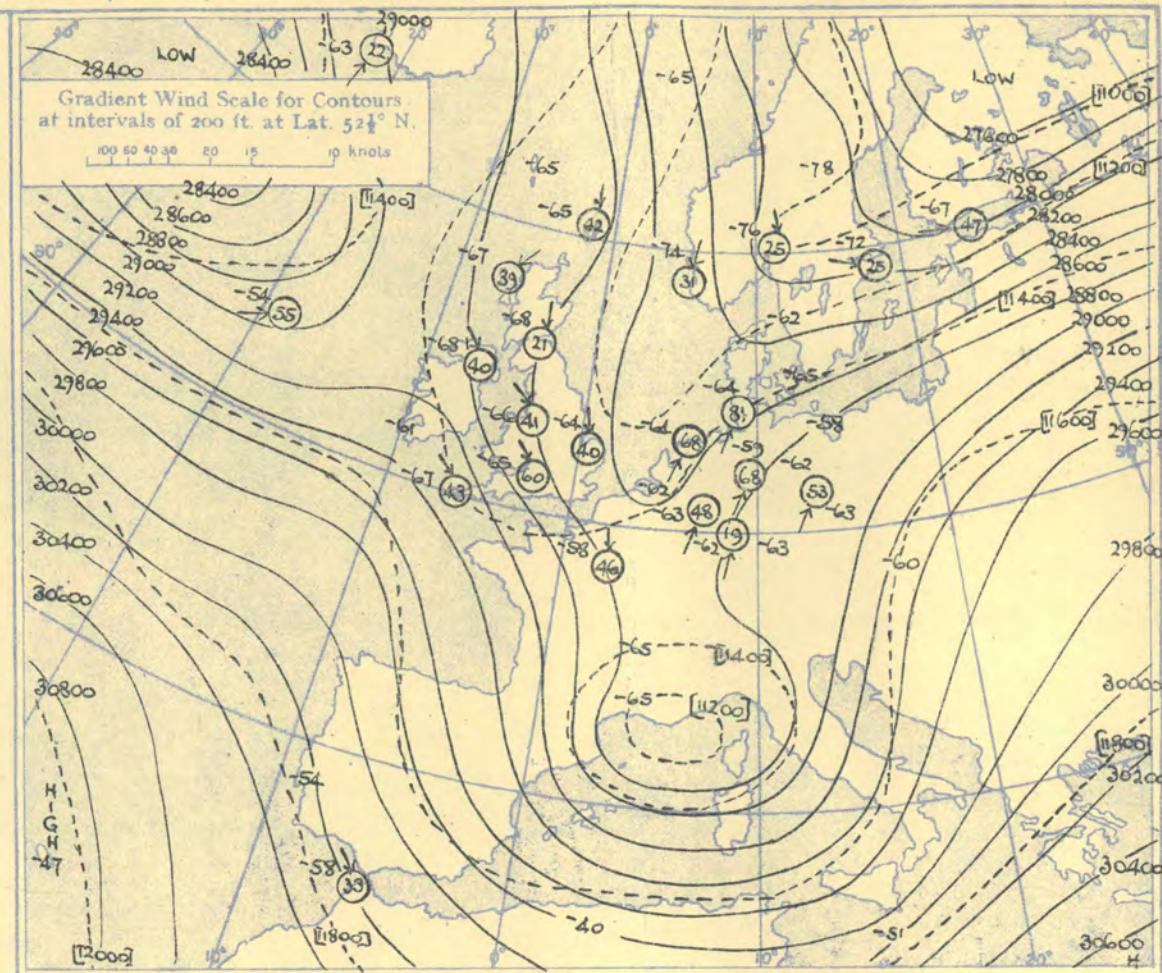
Sunday 26th February 1950

STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION	
Pressure mb	Time M.S.L.	1500h		G.M.T.		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.	Pressure mb					
		1011.1	mb	1012.0	mb																														1013.9	mb	1014.6	mb	1014.1
Surf	027	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	Surf					
1000	2.9	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	1000					
950	3.4	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	950					
900	3.9	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	900					
850	4.4	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	850					
800	4.9	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	800					
750	5.4	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	750					
700	5.9	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	700					
650	6.4	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	650					
600	6.9	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	600					
550	7.4	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	550					
500	7.9	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	500					
450	8.4	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	450					
400	8.9	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	400					
350	9.4	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	350					
300	9.9	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	300					
250	10.4	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	250					
200	10.9	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	200					
170	11.4	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	170					
150	11.9	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	150					
130	12.4	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	130					
110	12.9	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	110					
100	13.4	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	100					
90	13.9	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	90					
80	14.4	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	80					
70	14.9	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	70					
60	15.4	35	27	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	60					
Tropopause		I 250 mb - 81° 32,700'				I 247 mb - 83° 33,000'				I 281 mb - 72° 30,200'				I 50 mb - 77° 32,800'				II 273 mb - 70° 30,800'				II 287 mb - 68° 29,600'				II 250 mb - 71° 32,800'				I 262 mb - 77° 32,000'				I 266 mb - 66° 31,800'				Tropopause	
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				VALENTIA				STATION	
Pressure mb	Time M.S.L.	2100h		G.M.T.		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.	Pressure mb					
		1012.0	mb	1014.7	mb																														1015.7	mb	1016.7	mb	1009.1
Surf	027	37	33	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	Surf					
1000	3.1	37	33	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	1000					
950	3.6	37	33	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	950					
900	4.0	37	33	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	900					
850	4.4	37	33	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	850					
800	4.8	37	33	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	800					
750	5.2	37	33	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	750					
700	5.6	37	33	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	700					
650	6.0	37	33	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	650					
600	6.4	37	33	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	600					
550	6.8	37	33	259	15	00.5	34	25	180	10	02.3	31	29	150	05	01.2	37	34	350	04	04.4	36	31	330	07	02.9	34	22	180	03	02.9	34	22	550					
500	7.2	37	33	259	15	00.5	34	25	180	10	02.3	31	29	150	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 1500 G.M.T.

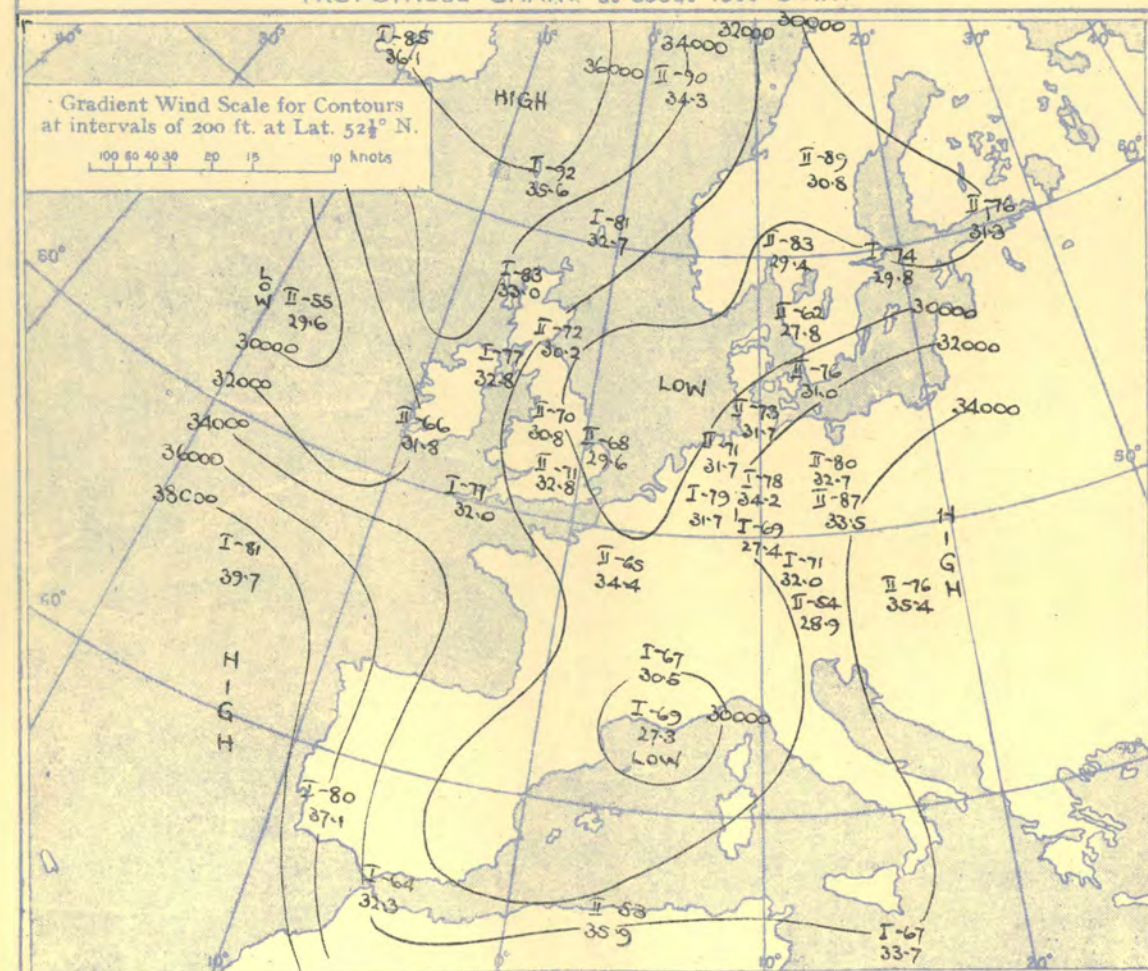


The continuous lines are contour lines of the 700 mb. surface.
The dotted lines are isopleths of the thickness of the layer 1000—700 mb.



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.

TROPOPAUSE CHART at about 1500 G.M.T.



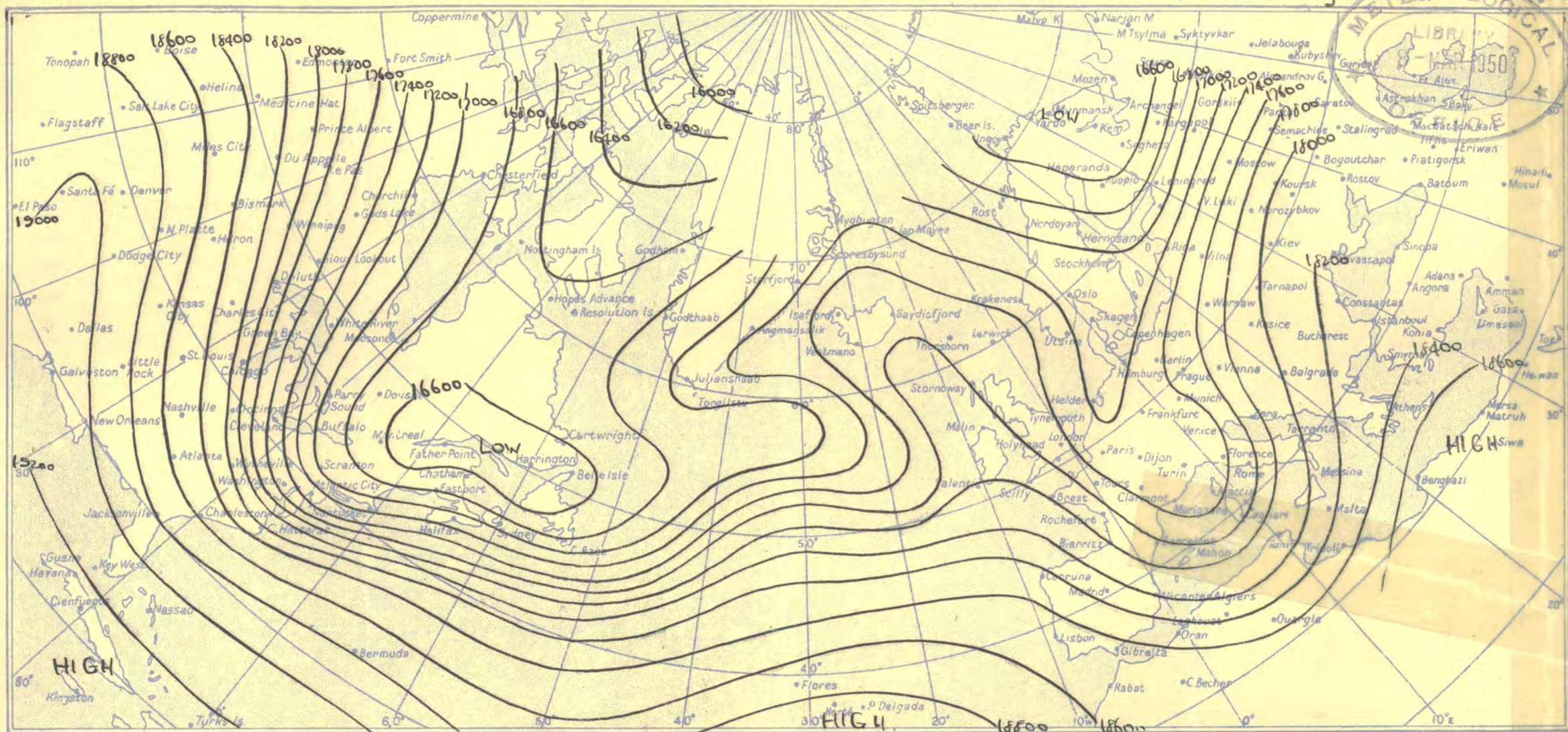
Contour lines of Height of Tropopause.
Temperature of Tropopause.

NOTES ON THE AEROLOGICAL SITUATION.

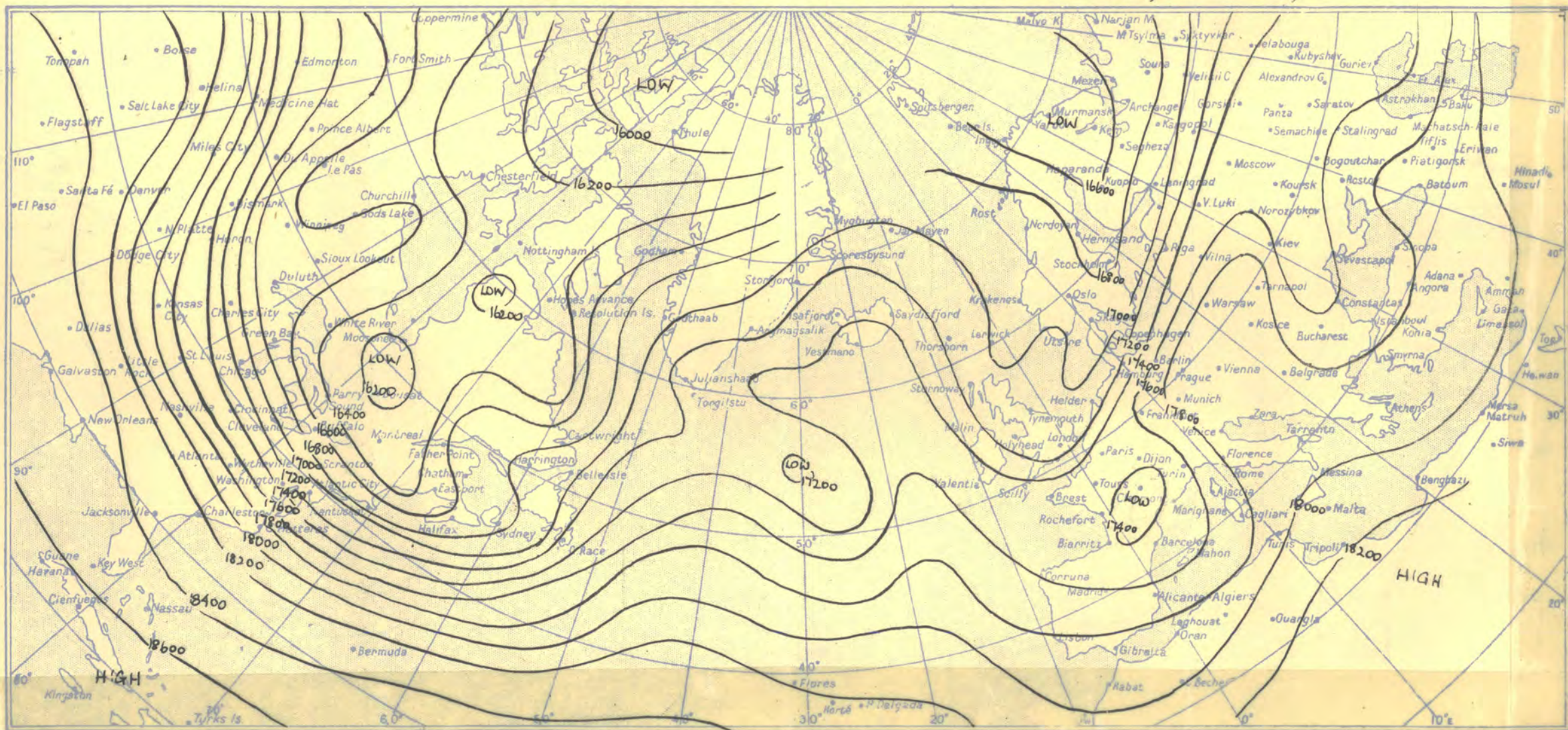
A rather flat warm tongue persisted from West Greenland to Iceland, but some further warming continued over Scandinavia, resulting in a cold pool being cut off near the Franco-German border. The thermal pattern in the Central and Western Atlantic fluctuated rapidly in association with considerable cyclonic activity.

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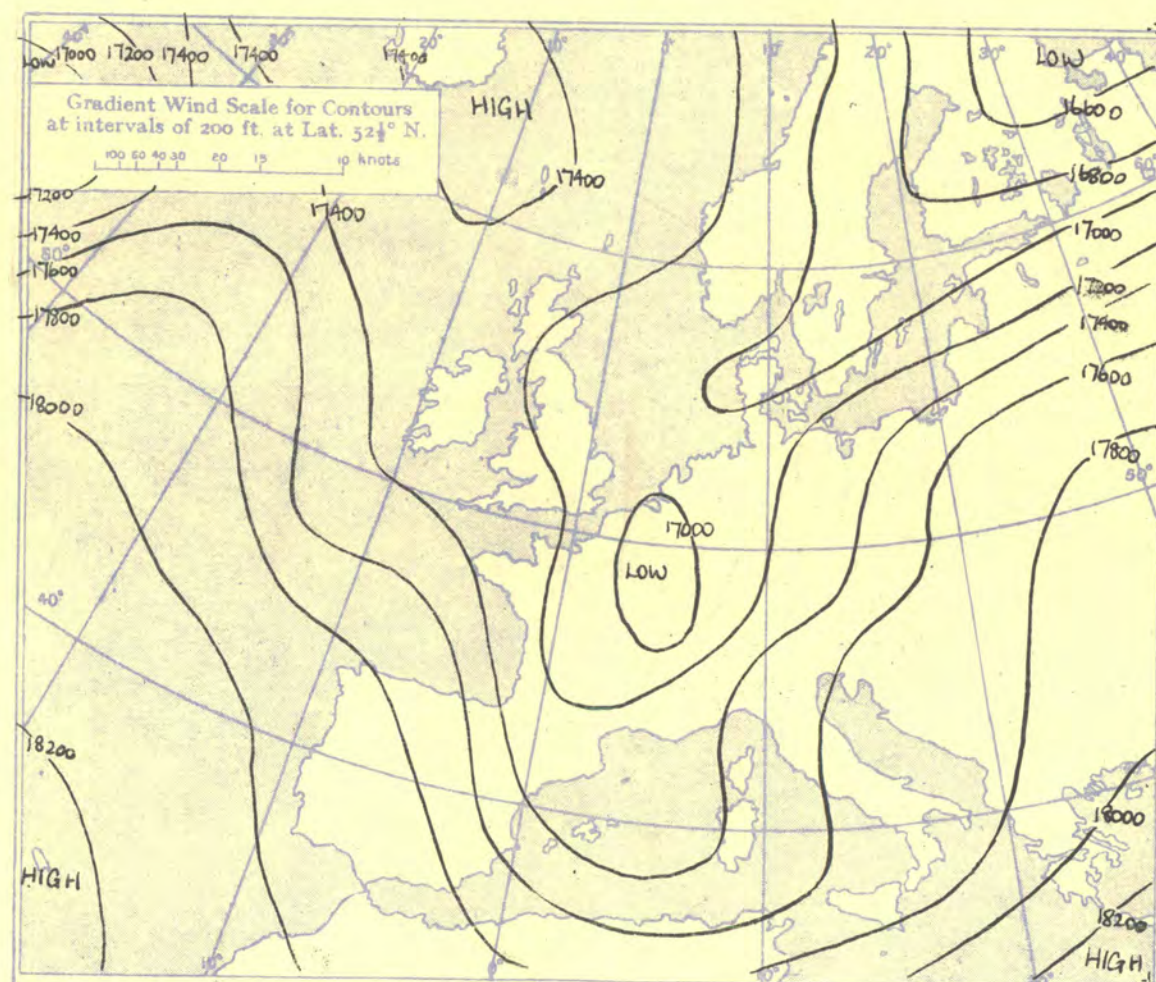
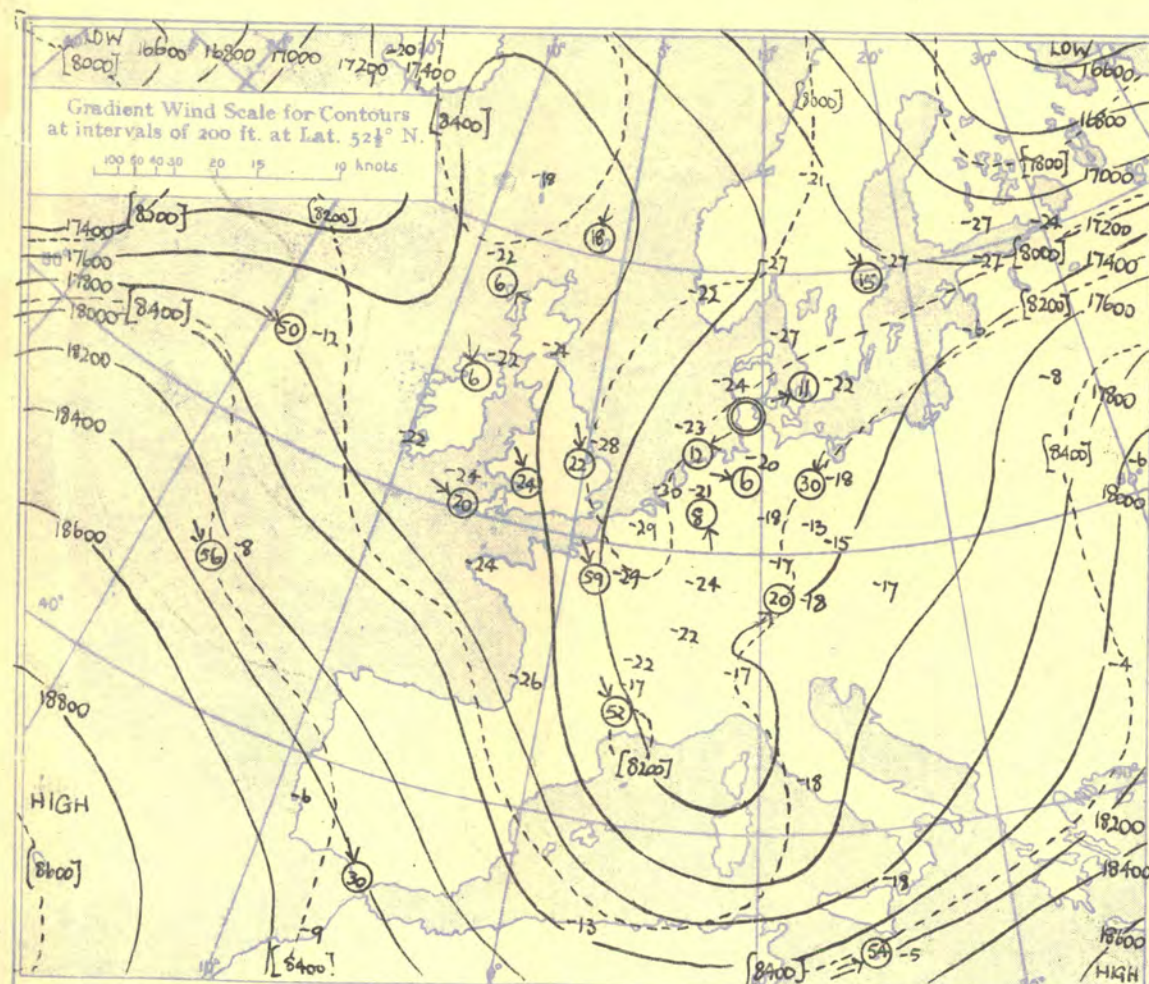
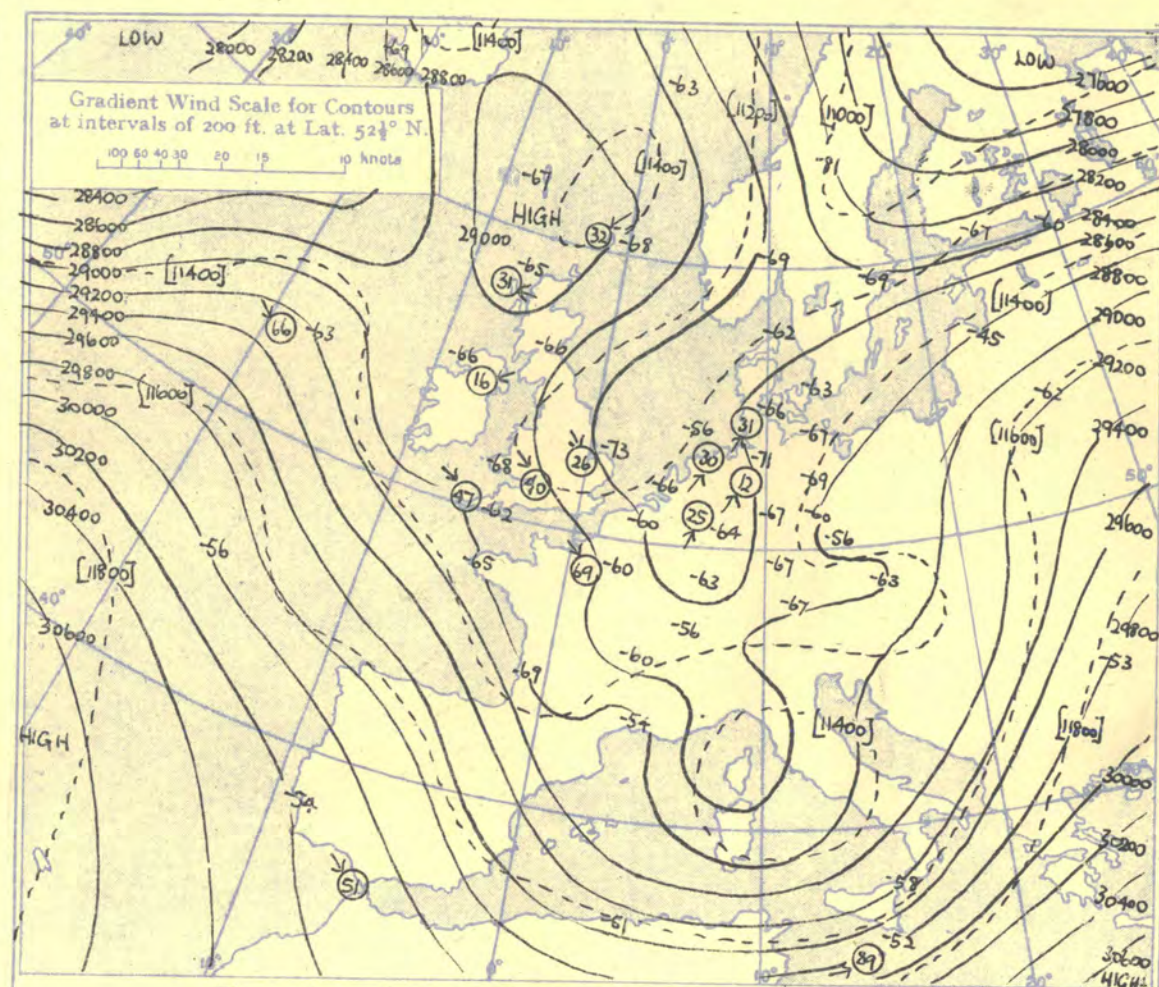
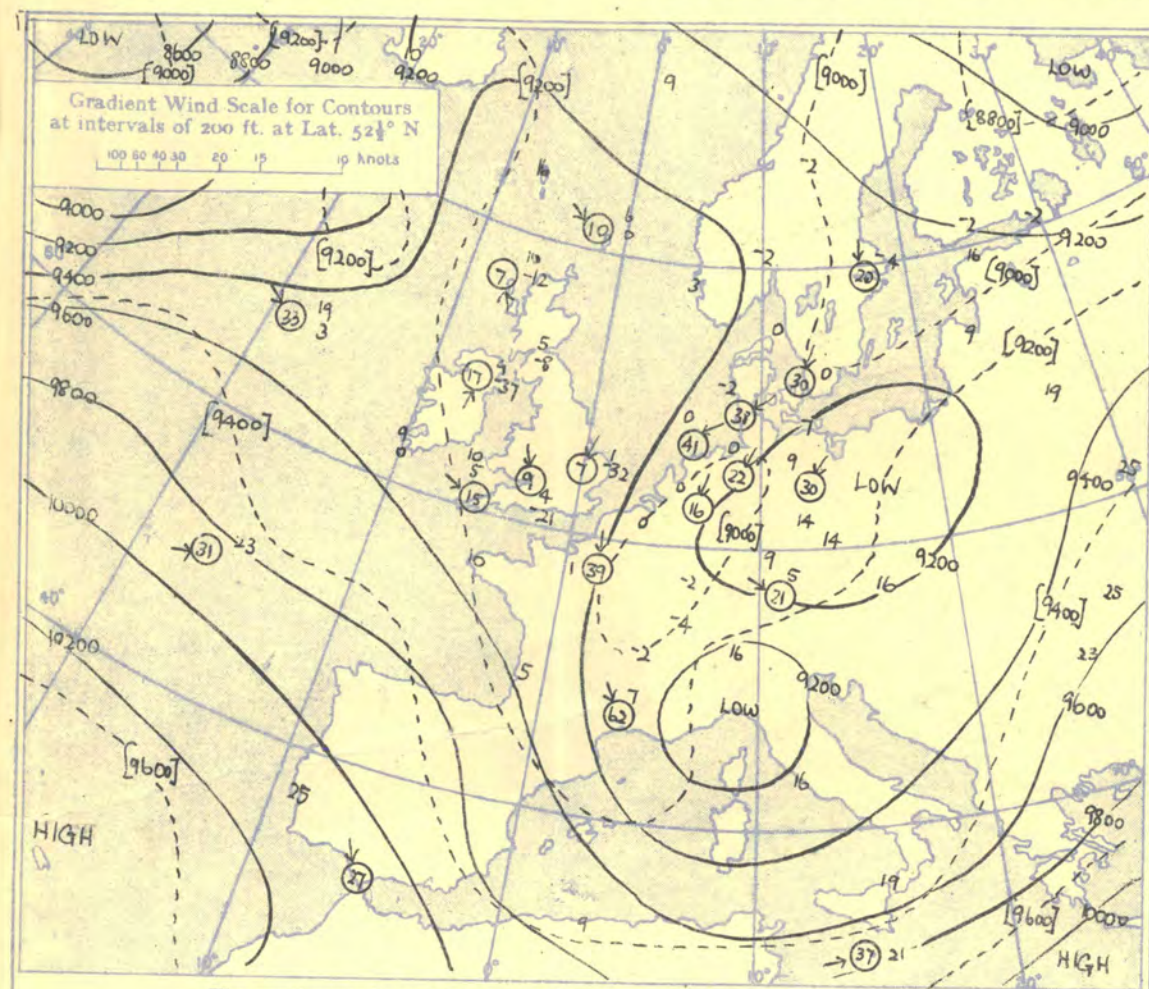
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Sunday 26th February 1950.



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 0300 G.M.T.



AIRCRAFT OBSERVATIONS OF TEMPERATURE AND HUMIDITY																				DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.																	
Pressure M.S.L. Surf Freezing	48-2°N 20-5°W		49-5°N 18-7°W		43-2°N 17°W		39-5°N 12-2°W														Time M.S.L. Surf Freezing	Pressure mb															
	Time	13h 26m	Time	15h 26m	Time	13h 26m	Time	15h 26m	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	Time	13h 26m																	
	M.S.L.	1010 mb	M.S.L.	1010 mb	M.S.L.	1010 mb	M.S.L.	1010 mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	M.S.L.	1010 mb																	
	Surf	1007 mb	Surf	1007 mb	Surf	1010 mb	Surf	1010 mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	mb	Surf			1010 mb														
Freezing	750 mb	Freezing	825 mb	Freezing	750 mb	Freezing	750 mb	Freezing	750 mb	Freezing	750 mb	Freezing	750 mb	Freezing	750 mb	Freezing	750 mb	Freezing	750 mb	Freezing	750 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.														
Surf	50.39		Surf	51.43		Surf	55.50		Surf	55.50		Surf	55.50		Surf	55.50		Surf	55.50		Surf	55.50															
1000	2.9	49	2.9	50		4.8	59		5.1	54		5.1	54		5.1	54		5.1	54		5.1	54															
950	43.36		43.36	43.36		43.36	43.36		43.36	43.36		43.36	43.36		43.36	43.36		43.36	43.36		43.36	43.36															
900	35.35		35.35	35.35		35.35	35.35		35.35	35.35		35.35	35.35		35.35	35.35		35.35	35.35		35.35	35.35															
850	39.11		39.11	39.11		39.11	39.11		39.11	39.11		39.11	39.11		39.11	39.11		39.11	39.11		39.11	39.11															
800	36.11		36.11	36.11		36.11	36.11		36.11	36.11		36.11	36.11		36.11	36.11		36.11	36.11		36.11	36.11															
750	27.17		27.17	27.17		27.17	27.17		27.17	27.17		27.17	27.17		27.17	27.17		27.17	27.17		27.17	27.17															
700	27.18		27.18	27.18		27.18	27.18		27.18	27.18		27.18	27.18		27.18	27.18		27.18	27.18		27.18	27.18															
650	18.14		18.14	18.14		18.14	18.14		18.14	18.14		18.14	18.14		18.14	18.14		18.14	18.14		18.14	18.14															
600	14.04		14.04	14.04		14.04	14.04		14.04	14.04		14.04	14.04		14.04	14.04		14.04	14.04		14.04	14.04															
550	01.00		01.00	01.00		01.00	01.00		01.00	01.00		01.00	01.00		01.00	01.00		01.00	01.00		01.00	01.00															
500	180-9		180-13			184-6			185-8																												
450	Surf wind 22-27 kts		Surf wind 17-21 kts NW		Surf wind 11-16 kts NW		Surf wind 3-6 kts																														
400	Cloud 318 Sc 700-718 Sc 550-800		Cloud 318 Sc 700-718 Sc 550-800		Cloud 318 Sc 700-718 Sc 550-800		Cloud 318 Sc 700-718 Sc 550-800																														
350	816 As 550-218 As 18		816 As 550-218 As 18		816 As 550-218 As 18		816 As 550-218 As 18																														
300	Inversion 850 mb 26°		Inversion 850 mb 26°		Inversion 850 mb 26°		Inversion 850 mb 26°																														
250	900 mb 35°		900 mb 35°		900 mb 35°		900 mb 35°																														
200	850 mb 35°		850 mb 35°		850 mb 35°		850 mb 35°																														
170	600 mb 41°		600 mb 41°		600 mb 41°		600 mb 41°																														
550 mb +1°																																					
																						NEPHOSCOPE OBSERVATIONS															
Place																						Place															
Time Type																						Time Type															
Dir. Vel.																						Dir. Vel.															

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

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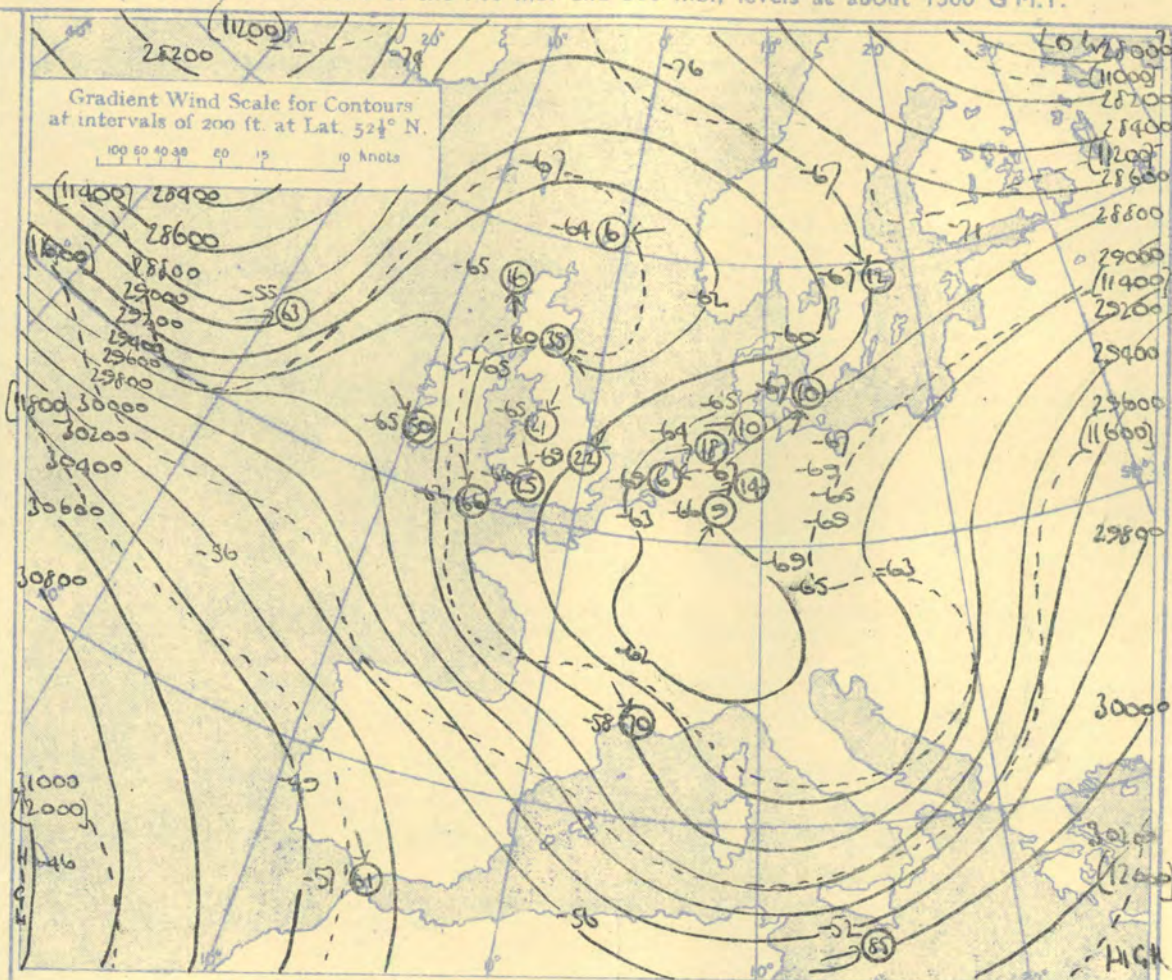
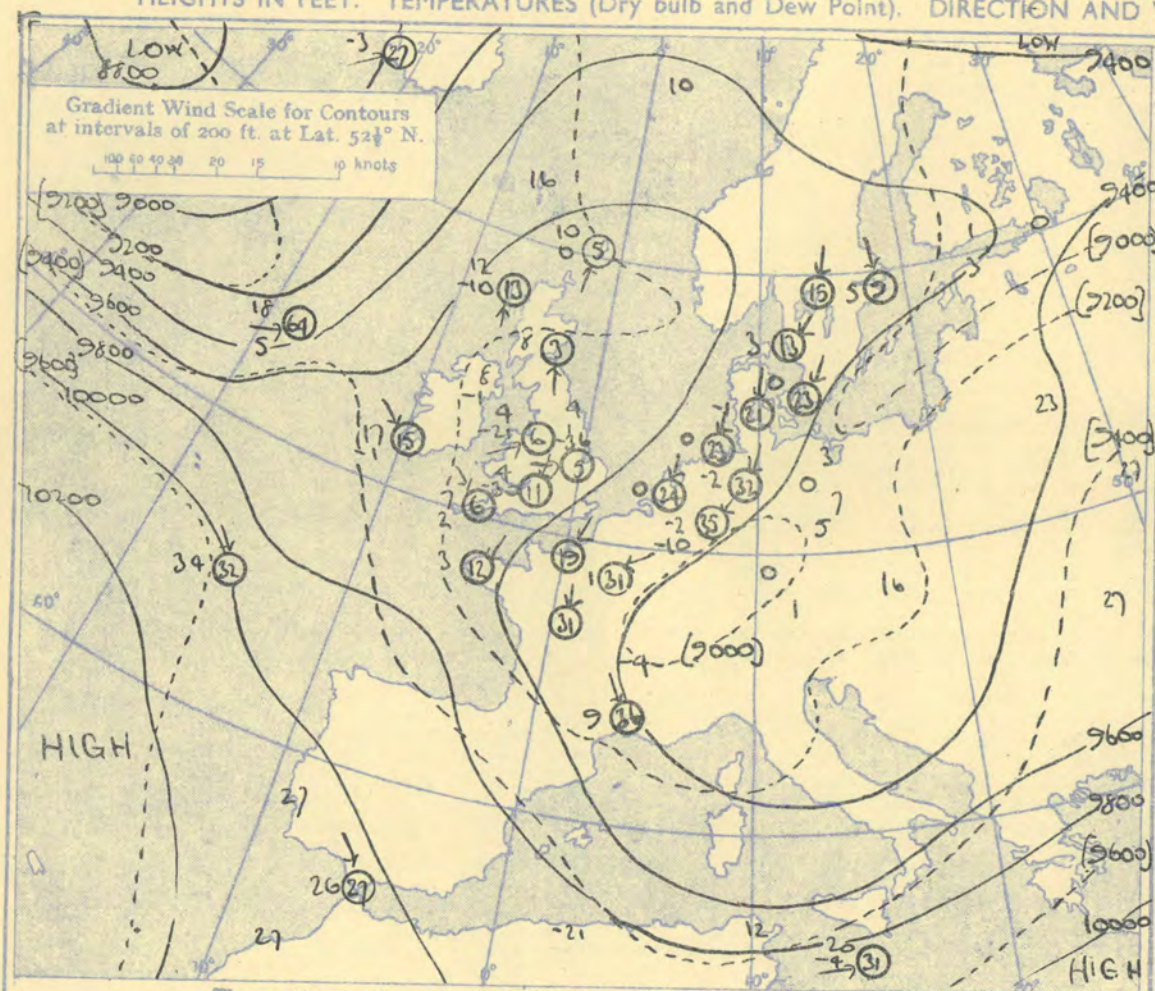
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

Monday 27th February 1950

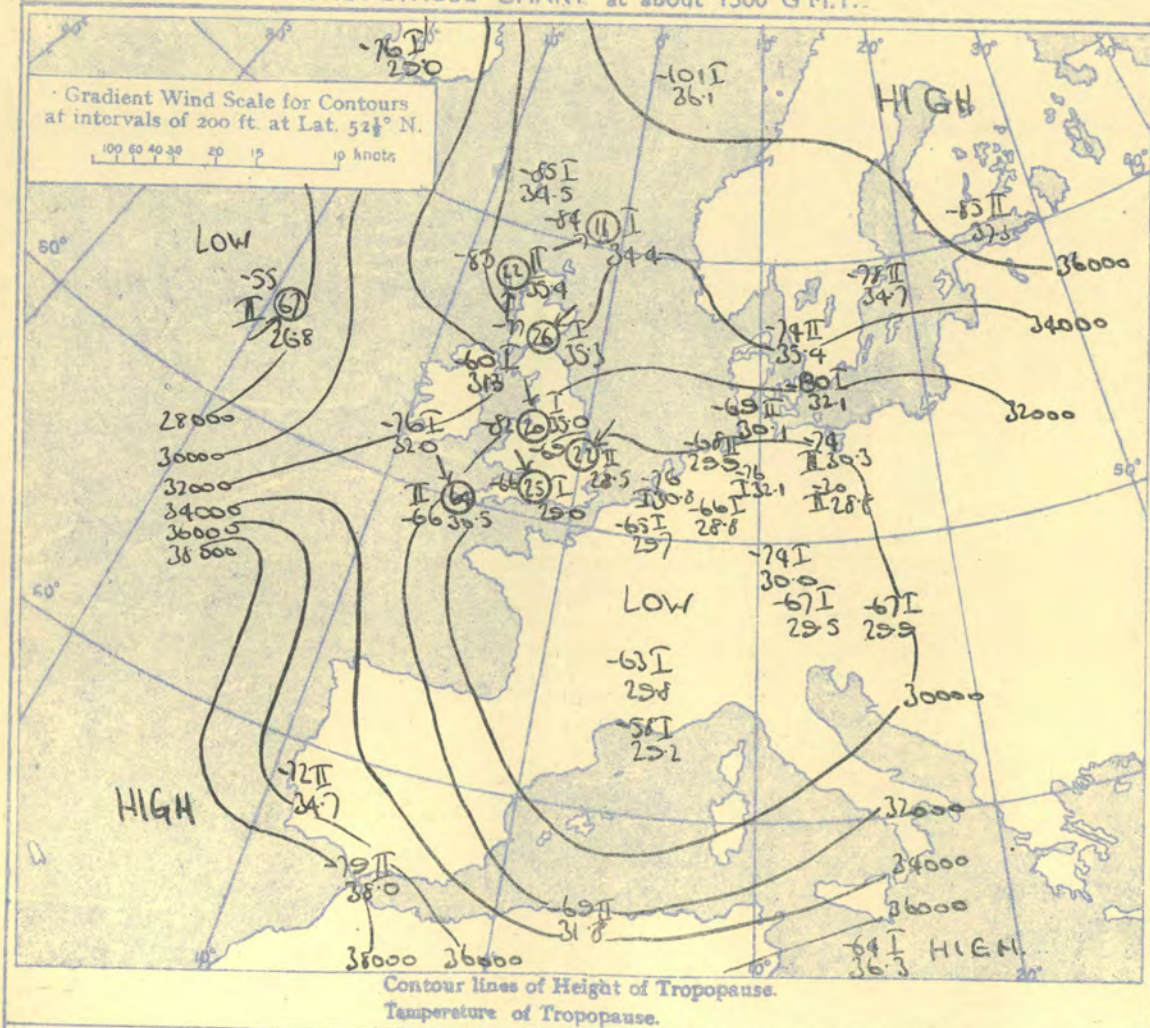
STATION		LERWICK				STORNOWAY				LEUCHARS				ALDERGROVE				LIVERPOOL				DOWNHAM MARKET				LARKHILL				CAMBORNE				STATION										
Pressure	Time	0300			G.M.T.	Time	0300			G.M.T.	Time	0300			G.M.T.	Time	0300			G.M.T.	Time	0300			G.M.T.	Time	0300			G.M.T.	Time	M.S.L.	Surf	Freezing										
	M.S.L.	1013.8			mb		M.S.L.	1015.2				mb	M.S.L.	1017.1			mb	M.S.L.	1018.6			mb	M.S.L.	1019.3			mb	M.S.L.	1020.1						mb	M.S.L.	1021.0			mb				
	Surf	1003.0			mb		Surf	1013.2				mb	Surf	1016.2			mb	Surf	1006.6			mb	Surf	1012.0			mb	Surf	1000.3						mb	Surf	1001.8			mb				
Freezing		932			mb	Freezing		956			mb	Freezing		969			mb	Freezing		948			mb	Freezing		962			mb	Freezing		948			mb	Freezing		931			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.	ft./100	°F.	°F.	Dir. Vel.	ft./100	°F.	°F.	Dir. Vel.	ft./100	°F.	°F.	Dir. Vel.	ft./100	°F.	°F.	Dir. Vel.	ft./100	°F.	°F.	Dir. Vel.	ft./100	°F.	°F.	Dir. Vel.	ft./100	°F.	°F.	Dir. Vel.	mb											
Surf	02.7	38	31	315	04	00	34	26	04	00	34	26	04	00	34	26	04	00	34	26	04	00	34	26	04	00	34	26	04	00	34	26	04	Surf										
1000	03.5	35	33		04	00	36	27	04	00	36	27	04	00	36	27	04	00	36	27	04	00	36	27	04	00	36	27	04	00	36	27	04	1000										
950		35	30	288	12				13				13				17				17				17								950											
900	31.3	28	25	288	14	31	5	24	10	20	15	31	5	22	18	23	31	7	25	13	18	3	23	23	02	10	07	34	25	166	26	30	38	900										
850		20	13	280	18				12				12				20				20				20								850											
800	61.5	17	15	266	16	61	7	14	20	15	2	61	8	13	08	27	62	1	16	01	10	21	05	01	4	06	21	16	168	19	26	22	800											
750		13	06	265	14				12				10				11				26				10								750											
700	95.1	06	00	284	10	95	1	10	12	16	3	95	2	05	8	17	95	4	09	3	18	5	07	95	5	04	21	355	07	95	6	10	05	285	700									
650		1	7	330	08				01				02				03				27				03									650										
600	133	6	3	000	12	133	4	16	066	02	133	3	15				133	5	25	252	06				133	8	25	330	13	35	4	3	253	13	133	600								
550		14	17	000	15				13				08	05			12				002	02				12									550									
500	176	22	25	020	18	177	22	39	101	06	176	24	32				177	22	40	342	06				176	28	50	350	22	177	23	333	20	177	22	3	500							
450		30	34	022	22				30				43				33				004	06				37									450									
400	227	39	44	041	21	228	39	51	088	17	227	42					228	43		031	04				226	48									400									
350		50		038	32				50				53				55				041	11			60										350									
300	290	61		042	32	290	65		087	31	289	66					290	66		058	16				287	73								300										
250		81		058	41				094	23		82					68			343	14				74										250									
200	372	84		027	26	373	74		340	14	372	76					374	66		335	24				71										200									
170		87		333	25				328	15		70					63			324	25				68										170									
150		70		326	33				71		318	25		72											70										150									
130		70		324	35				72		312	33		76											73										130									
110		83		324	37				75		311	40		78											76										110									
100	512	84		321	35				77		315	41	514	79											77									100										
90		85		316	40								80												78										90									
80		86		312	44								82												79										80									
70		87		313	50								82												80										70									
60		88		313	51								82												81										60									
		Inversion				Inversion				Inversion				Inversion				Inversion				Inversion				Inversion				Inversion				Inversion										
		1003 ms 38° - 324				1013 ms 34° - 335 ms 37°				1016 ms 26° - 384 ms 34°				750 ms 11° - 730 ms 12°				1012 ms 32° - 380 ms 35°				1000 ms 29° - 384				800 ms 15° - 768 ms 17°				1004 - 387 ms 39°														
		815 ms 16° - 725 ms																																										
		(55 ms) - 85																																										
		Tropopause				Tropopause				Tropopause				Tropopause				Tropopause				Tropopause				Tropopause				Tropopause				Tropopause										
		225 ms - 87				240 ms - 83°				246 ms - 83°				275 ms - 69°				280 ms - 73°				294 ms - 69°				29000' - 62°				NR														
		24700'				33500'				32500'				30800'				20200'				29300'				29000'																		
		STATION				STATION				STATION				STATION				STATION				STATION				STATION				STATION				STATION										
Pressure	Time	0300			G.M.T.	Time	0300			G.M.T.	Time	0300			G.M.T.	Time	0300			G.M.T.	Time	0300			G.M.T.	Time	0300			G.M.T.	Time	M.S.L.	Surf	Freezing										
	M.S.L.	1016.6			mb		M.S.L.	1016.2				mb	M.S.L.	1017.1			mb	M.S.L.	1019.3			mb	M.S.L.	1019.4			mb	M.S.L.	1017.0						mb									
	Surf	1006.3			mb		Surf	1014.0				mb	Surf	1008			mb	Surf	1017.2			mb	Surf	1015.1			mb	Surf	1001.6						mb	Surf	1006.2			mb				
Freezing		940			mb	Freezing		960			mb	Freezing		948			mb	Freezing		975			mb	Freezing		962			mb	Freezing		937			mb	Freezing					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.	ft./100	°F.	°F.	Dir. Vel.	ft./100	°F.	°F.	Dir. Vel.	ft./100	°F.	°F.	Dir. Vel.	ft./100	°F.	°F.	Dir. Vel.	ft./100	°F.	°F.	Dir. Vel.	ft./100	°F.	°F.	Dir. Vel.	ft./100	°F.	°F.	Dir. Vel.	mb											
Surf	02.7	35	30		00	52	29	170	10				02	35	24	170	03	0	6	27	22	Calm	01	2	32	31	Calm	04	4	30	27	Calm	02	9	33		Surf							
1000	04.3	36	31		04	23	25			04	23	25		04	23	25	150	10	08	23	26	150	10	08	23	26	150	10	08	23	26	150	10	08	23	26	1000							
950		33	27			30	24	188	21				32	23	176	13				25	19	210	07			33	33	001	03	5	0	31	23		950									
900	32.0	27	23		31	9	24	17	192	21			32	2	162	24				32	4	23	05			31	5	052	04	32	5	25	21	054	10	32	3	900						
850		21	13			23	1	176	21				13	18	183	13				22	02	203	03			20	10	096	05	23	08	053	07		850									
800	62.2	17	10		62	1	20	22	173	15			62	4	16	15	137	11		62	6	17	15	152	02	61	6	17	036	05	62	8	17	2	049	06	62	7	800					
750		14	04	Secps		17	30	186	07				09	09	210	08				10	18	229	03			10	48	068	03		11	7	032	08		750								
700	95.9	09	9	for		95	9	24	161	06			96	10	4	200	04			96	0	03	27	18	0	94	9	24	09	04	9	6	2	017	02	10	96	4	700					
650		02	6			02	22	150	06				06							2	24	314	06			6	58	253	05		4	22	002	10		650								
600	134	3	12		134	5	21	133	06				06				134	7	18	342	05	134	8	18	003	08	132	12	533	57	11	134	9	28	346	12	134	6	600					
550		10	20	Winds		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	
Pressure	Time	1500h		G.M.T.		1500h		G.M.T.		1500h		G.M.T.		1500h		G.M.T.		1500h		G.M.T.		1500h		G.M.T.		1500h		G.M.T.		1500h		G.M.T.		Pressure					
		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							
Freezing	Freezing	940				926				950				921				945				966				938				918				Freezing					
Height	Height	ft./100		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height		Temp.		Dew		Wind		Height					
mb	mb	ft./100		°F.		°F.		Dir. Vel.		ft./100		°F.		°F.		Dir. Vel.		ft./100		°F.		°F.		Dir. Vel.		ft./100		°F.		°F.		Dir. Vel.		mb					
Surf	Surf	02.7		41		33		225		07		00.5		43		33		160		10		00.2		39		30		050		02		02.3		Surf					
1000	1000	04.5		40		33				04.0		41		32		130		05.1		37		28		130		03		04.5		43		31		1000					
950	950			33		27		219		13		35		28		185		26		32		25		206		05		36		28				950					
900	900	2.3		28		22		209		13		31.9		28		23		27		32.8		26		15		217		09		32.3		29		900					
850	850			22		14		209		13		21		16		188		28		25		06		225		10		22		21				850					
800	800	6.26		18		06		217		11		62.4		22		-1		20		63.2		20		07		238		10		62.6		19		800					
750	750			14		02		216		08		20		-7		173		15		14		20		241		08		12		08				750					
700	700	9.6.3		10		00		189		05		96.5		12		-10		13		96.9		08		-12		174		03		96.2		08		700					
650	650			04		09		149		06		08		-17		184		14		03		07		171		05		03		-19				650					
600	600	13.4		02		18		110		08		135		-2		23		12		135		02		-14		136		03		13.4		04		600					
550	550			09		30		106		06		-10		-31		163		12		09		24		081		05		-12		-32				550					
500	500	178		-19		37		100		08		178		-18		39		12		179		-19		33		077		10		178		-20		500					
450	450			-27		46		083		09		-26		46		166		15		-27		39		048		07		-27		-51				450					
400	400	230		-37		56		072		08		230		-36		55		13		230		-37		48		075		17		229		-40		400					
350	350			-49		077		07				-49				160		13		-48		091		26		-51								350					
300	300	2.92		-64		079		06		293		-65		159		16		293		-60		106		35		392		-65						300					
250	250			-78		05				-77		157		33				111		38		-10												250					
200	200	375		-78		266		07		376		-79		174		12		377		-67		359		16		276		-67						200					
170	170			-69		311		19		-72		295		17		-66		33.4		16		-62												170					
150	150			-69		310		26		435		-71		294		18		-65		32.7		19		437		-62								150					
130	130			-72		308		33				-68		293		22		-65		31.7		26		-64										130					
110	110			-76								-68		295		27		-66		32.3		30		-65										110					
100	100	(108 mb)		-76						519		-70		299		33		523		-67		318		33		523		-66						100					
90	90											-74		304		31		-69		316		38		-69										90					
80	80											-71		306		37		-70		318		37		-71										80					
70	70											-75		301		32		-72		317		40		-74										70					
60	60											-74																						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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

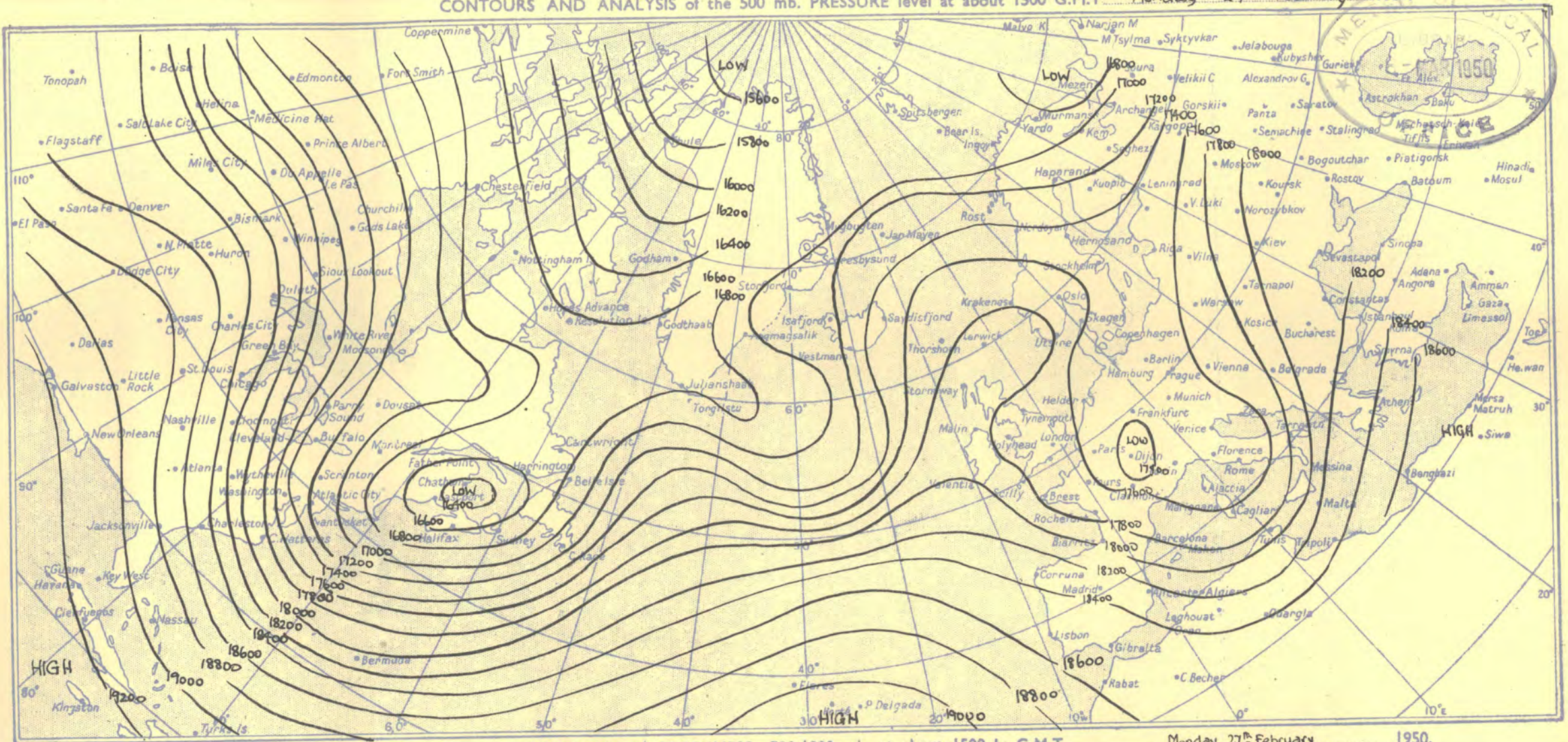


NOTES ON THE AEROLOGICAL SITUATION.

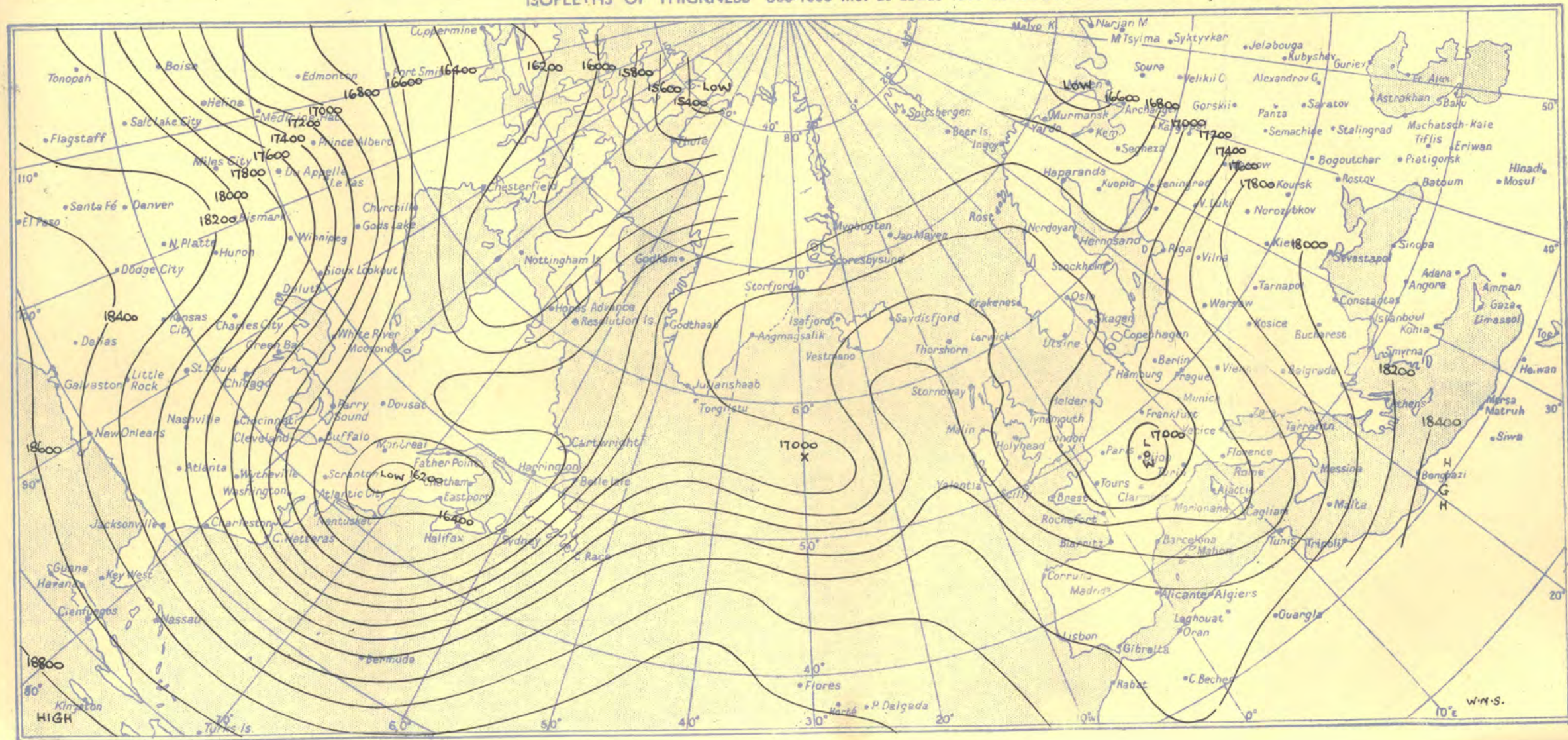
The cold trough from Finland to South France remained almost stationary except for a slight eastward motion in the South. The warm ridge to West of the British Isles moved slowly East but was weakened in the South tending to form a separate warm pool to the North of Scotland. A new warm ridge in the Western Atlantic was associated with a deepening surface depression. The ridge moved quickly east and developed considerably.

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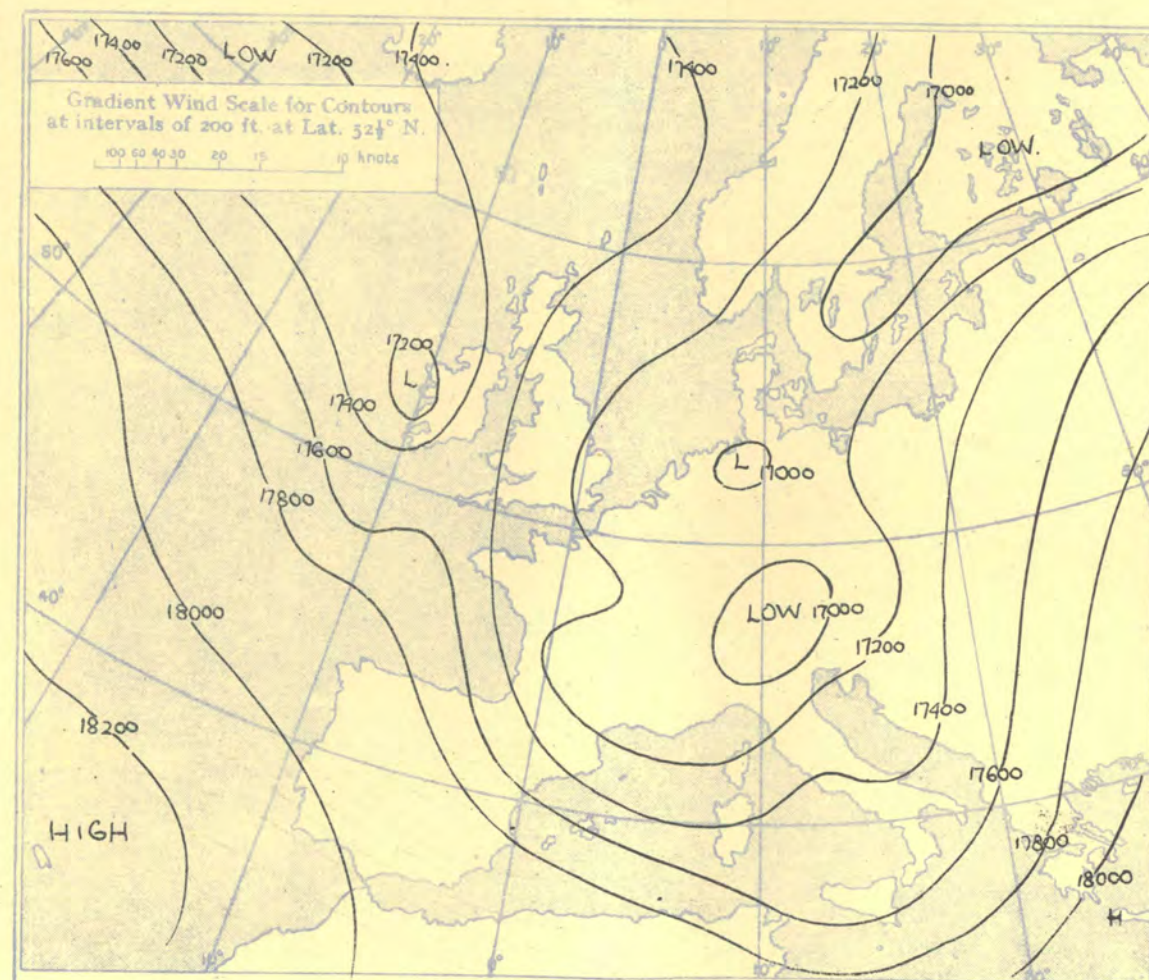
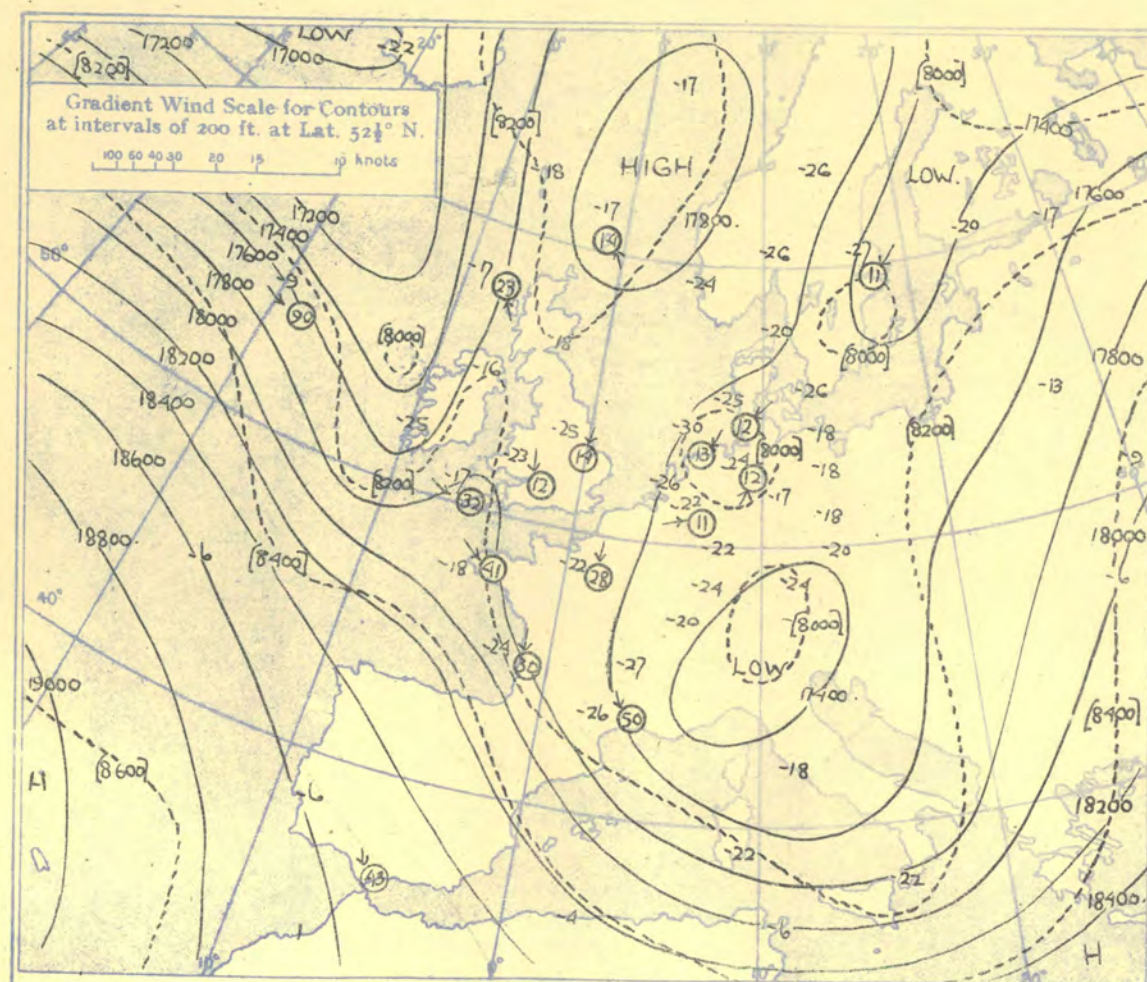
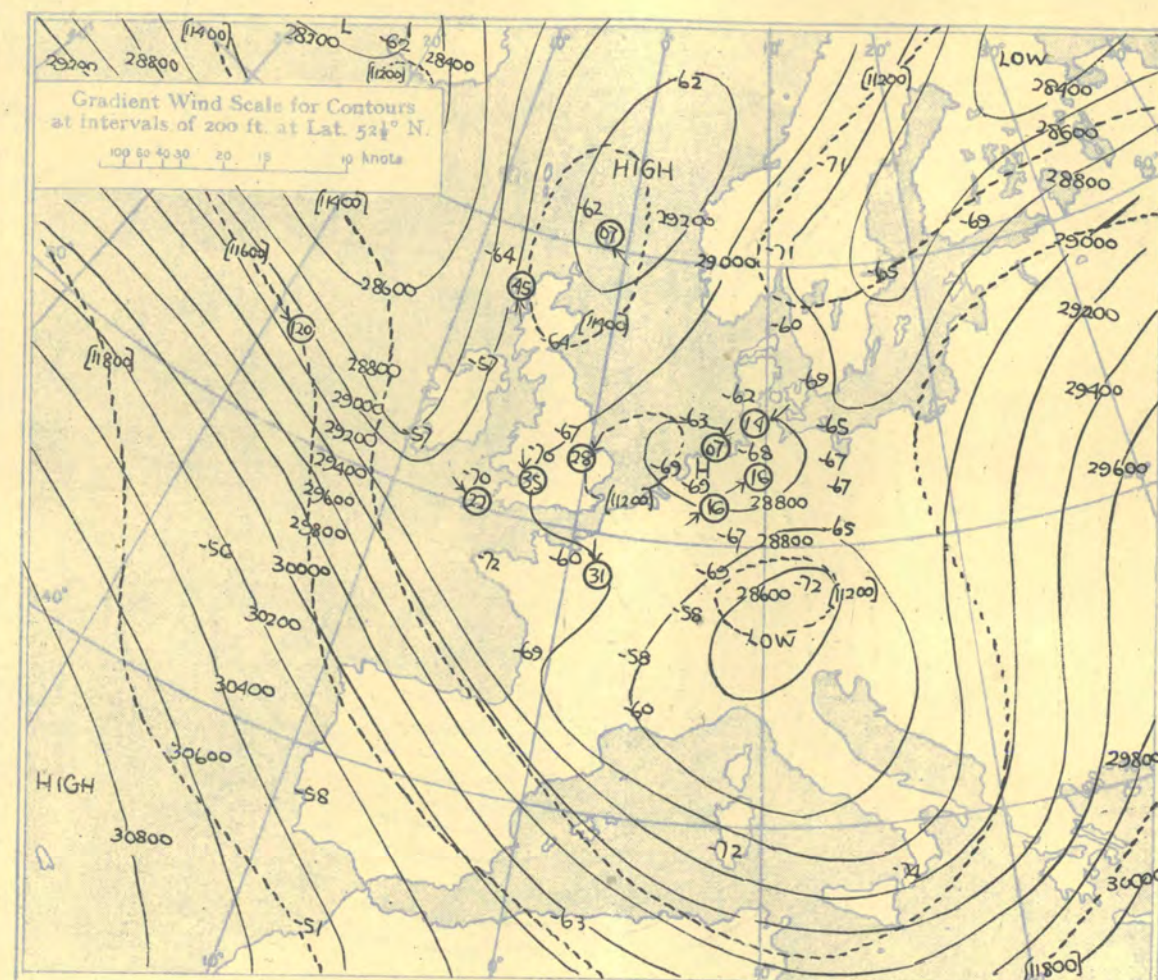
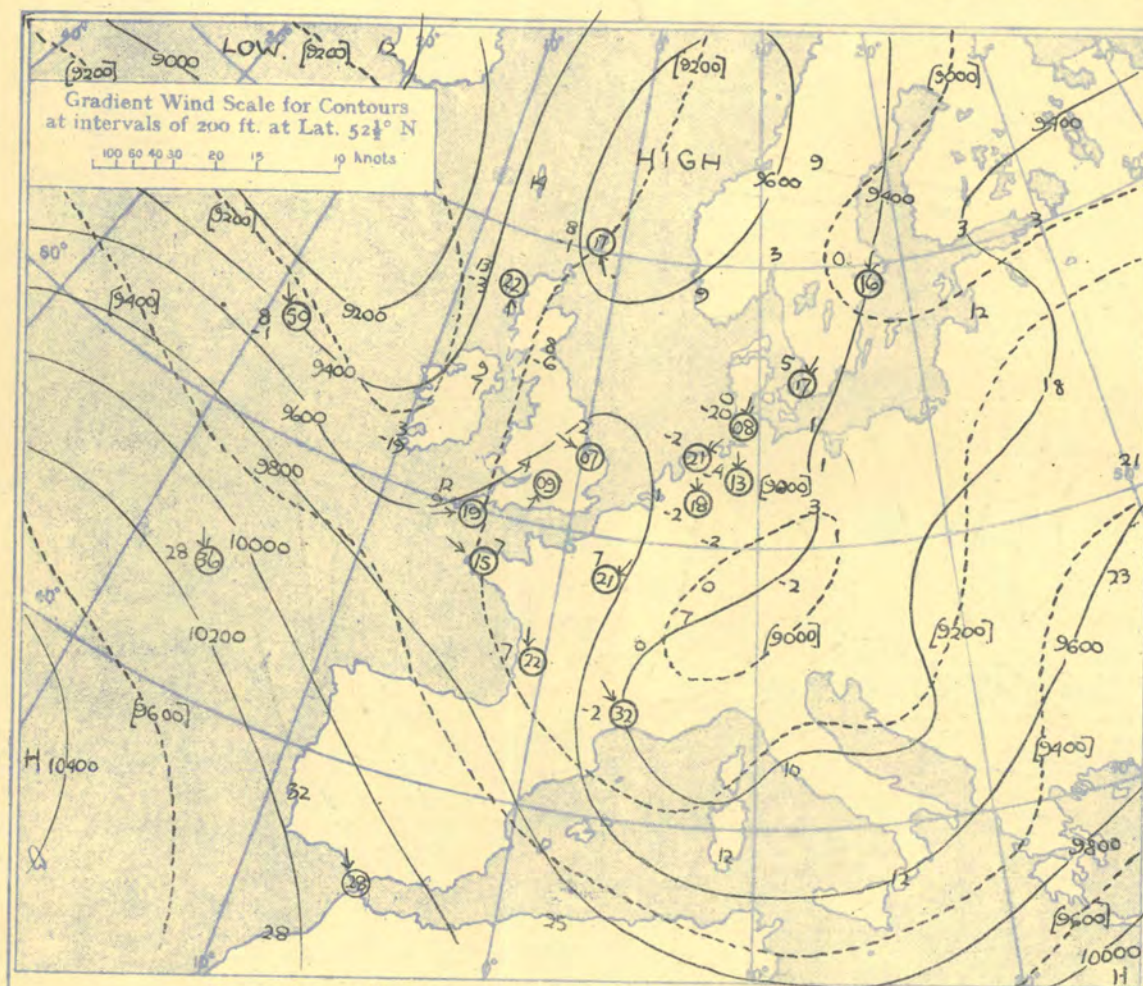
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Monday 27th February, 1950.



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 0300 G.M.T.



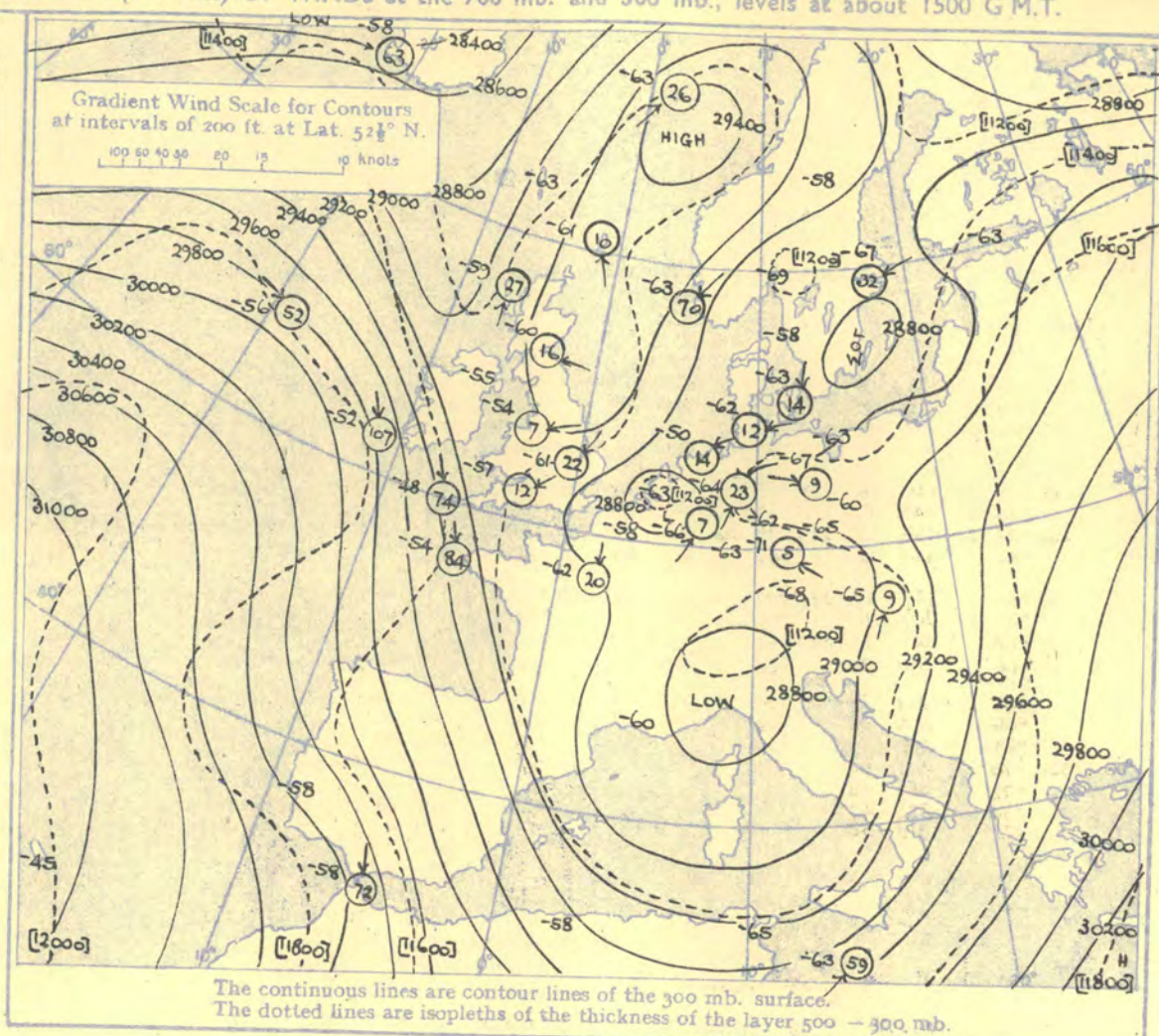
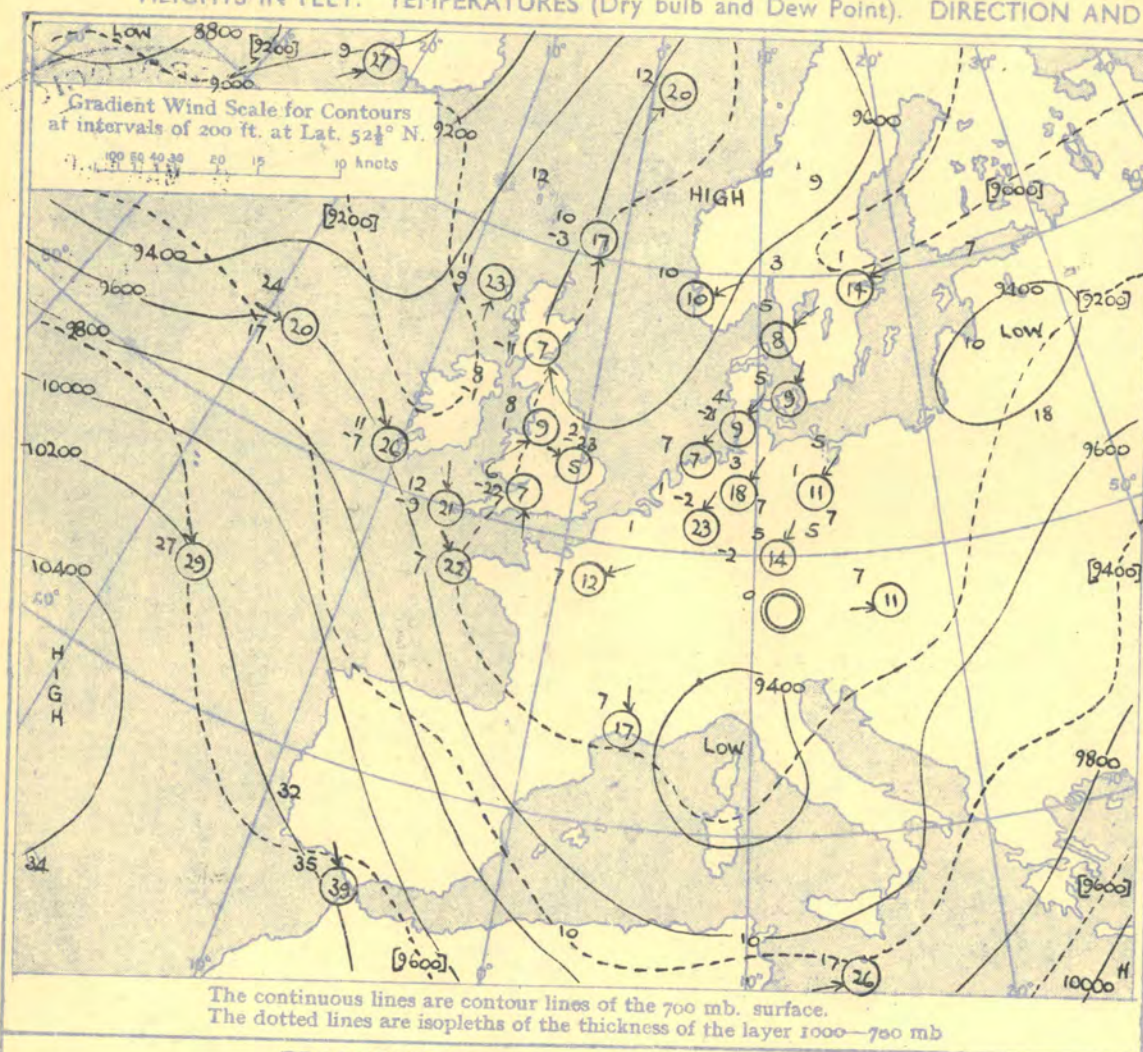
RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)

Tuesday 28th February 1950

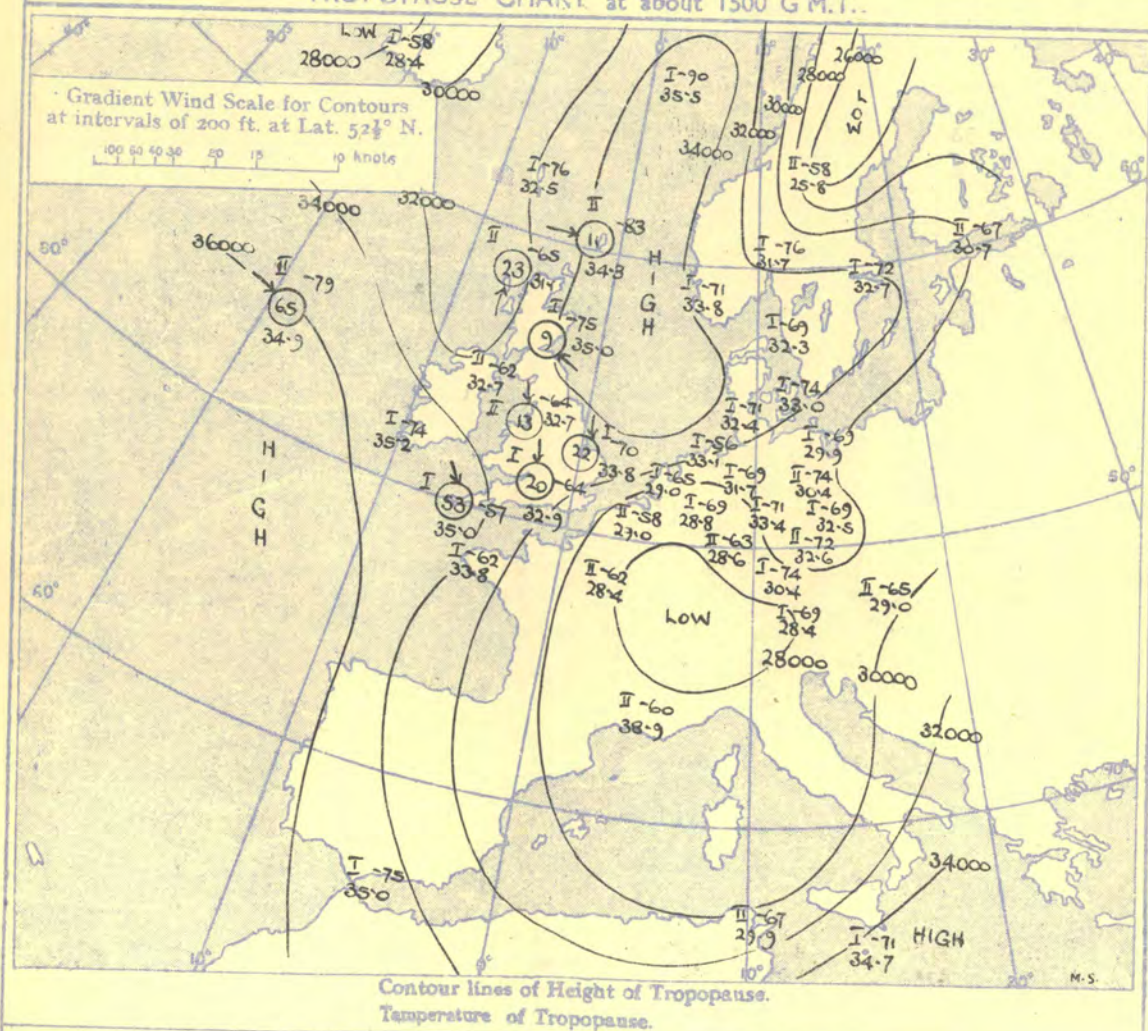
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Pressure mb	Time M.S.L. Surf Freezing	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.	Height ft./100	0300h		G.M.T.</

RADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Pressure	Time	M.S.L.	Surf	Freezing	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	1500		G.M.T.		mb	15	

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 1500 G.M.T.



TROPOPAUSE CHART at about 1500 G.M.T.

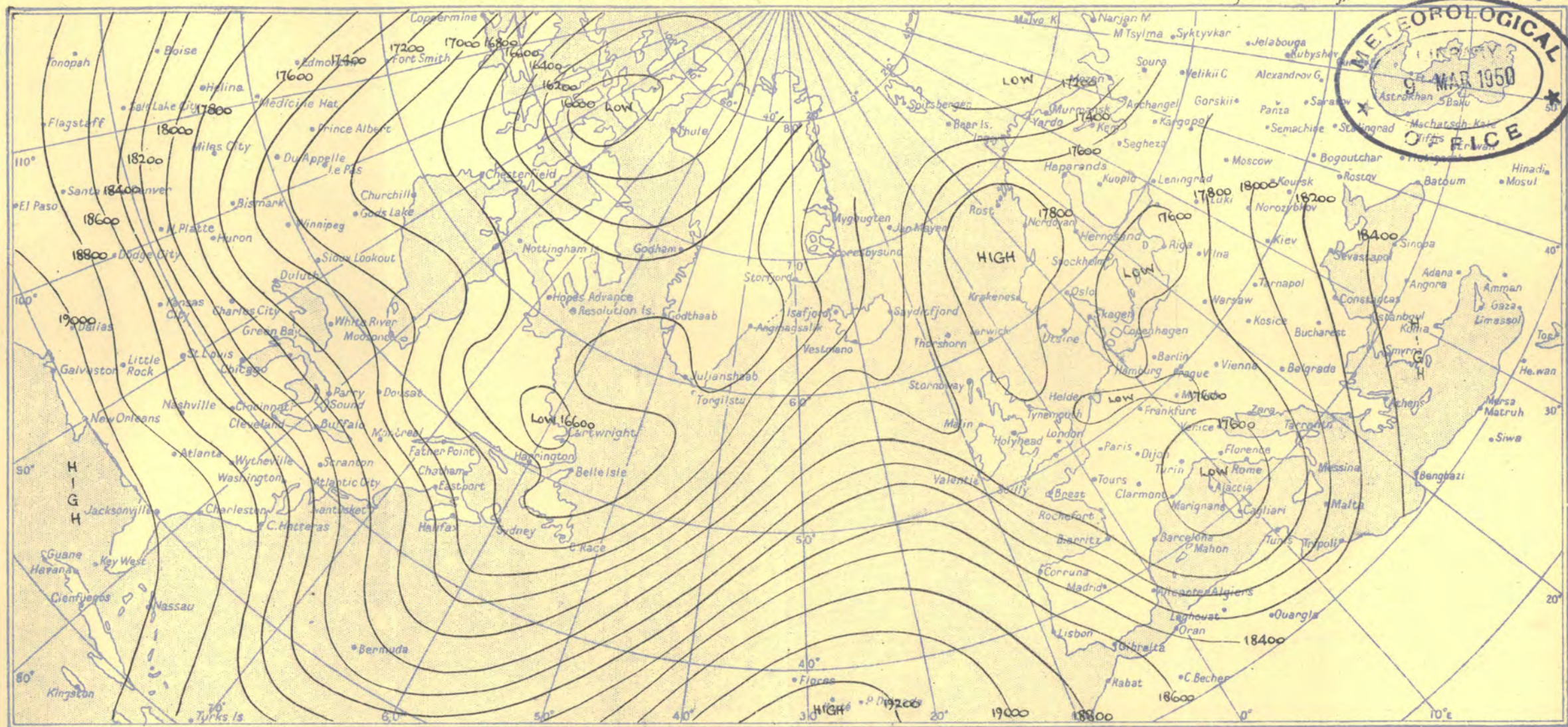


NOTES ON THE AEROLOGICAL SITUATION.

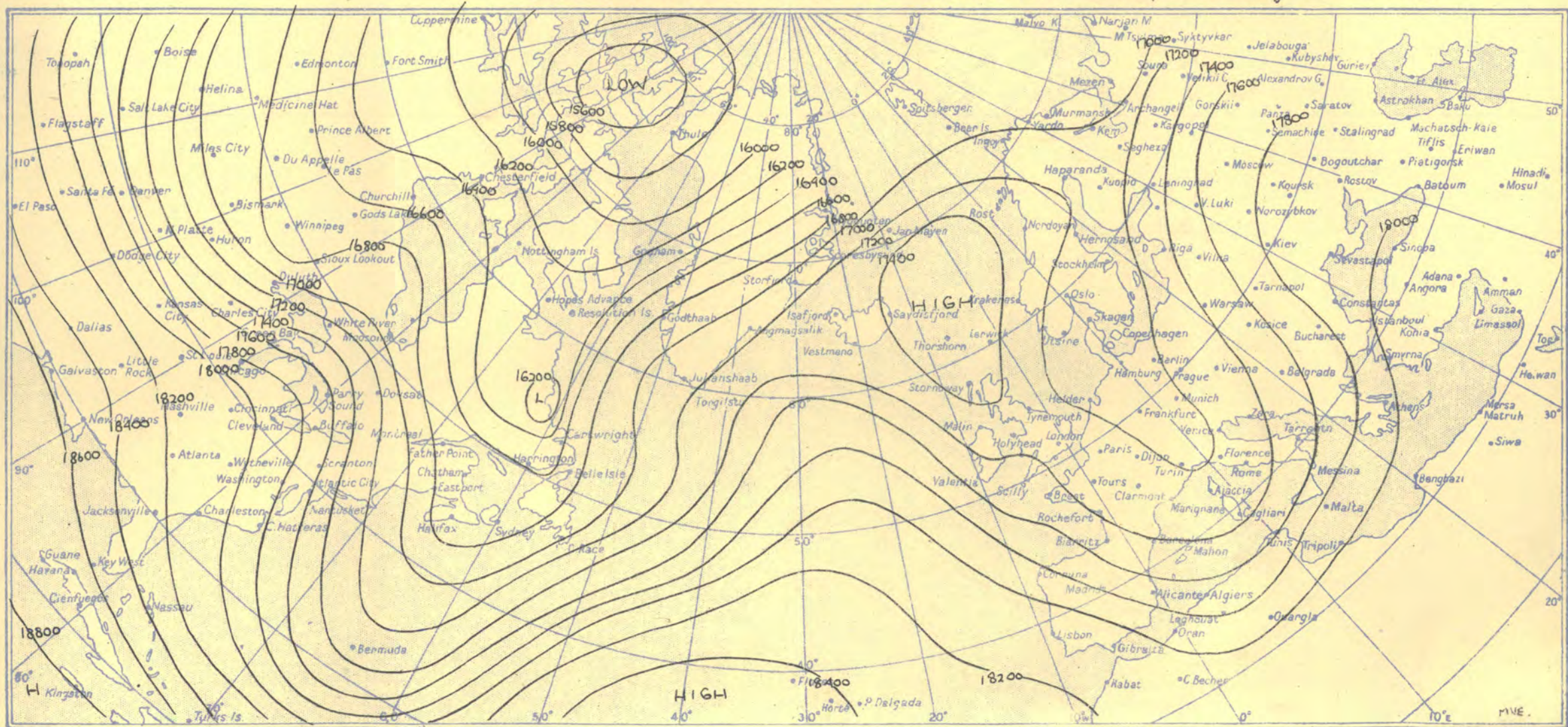
A cold trough from Finland across West Germany to North Italy remained almost stationary. The warm pool north of Scotland and associated with a surface occlusion disappeared slowly. The warm ridge in the Atlantic moved steadily eastwards to reach Iceland and the Western British Isles. A current of very cold air moving southwards from Northern Canada penetrated into the Western Atlantic producing a very sharp trough aloft.

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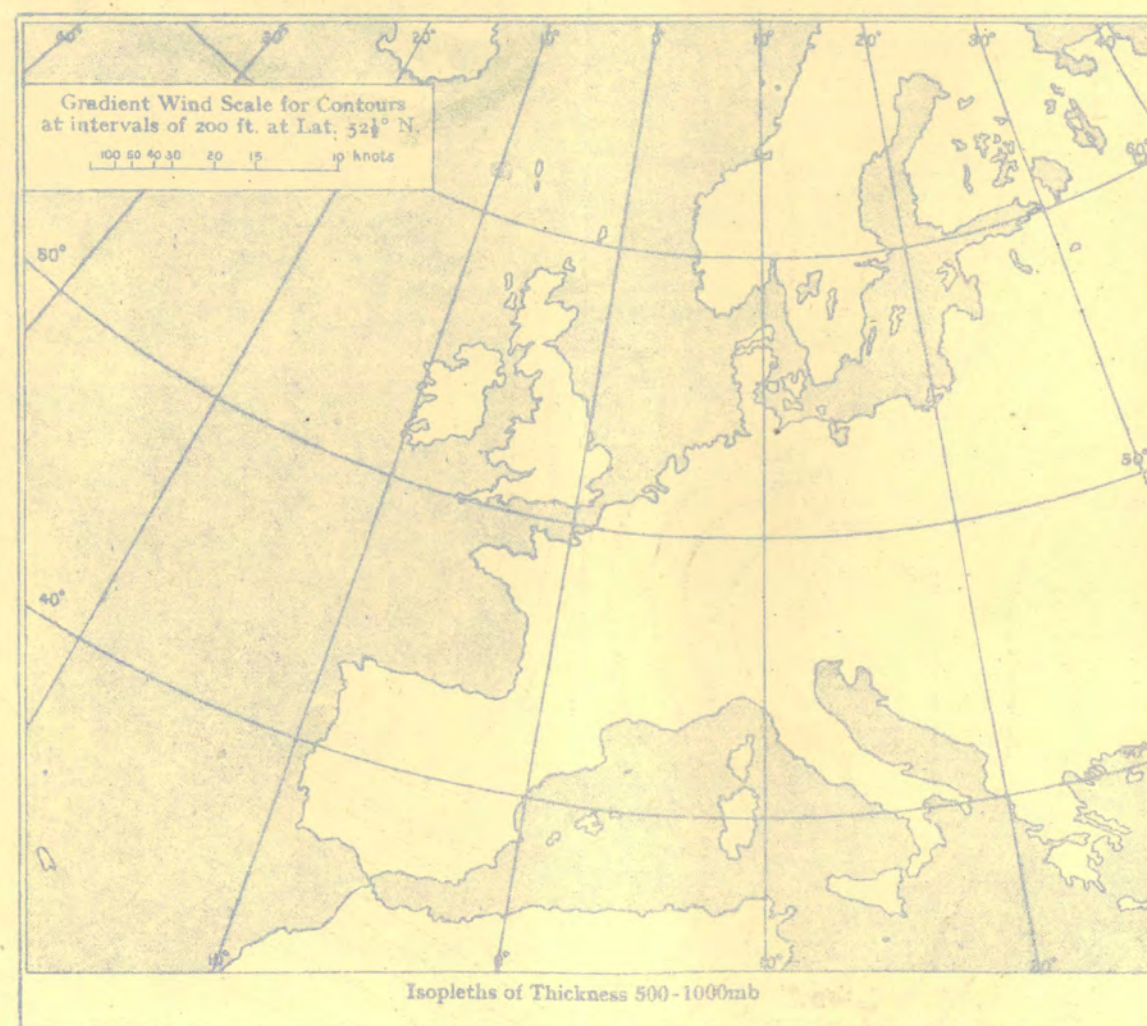
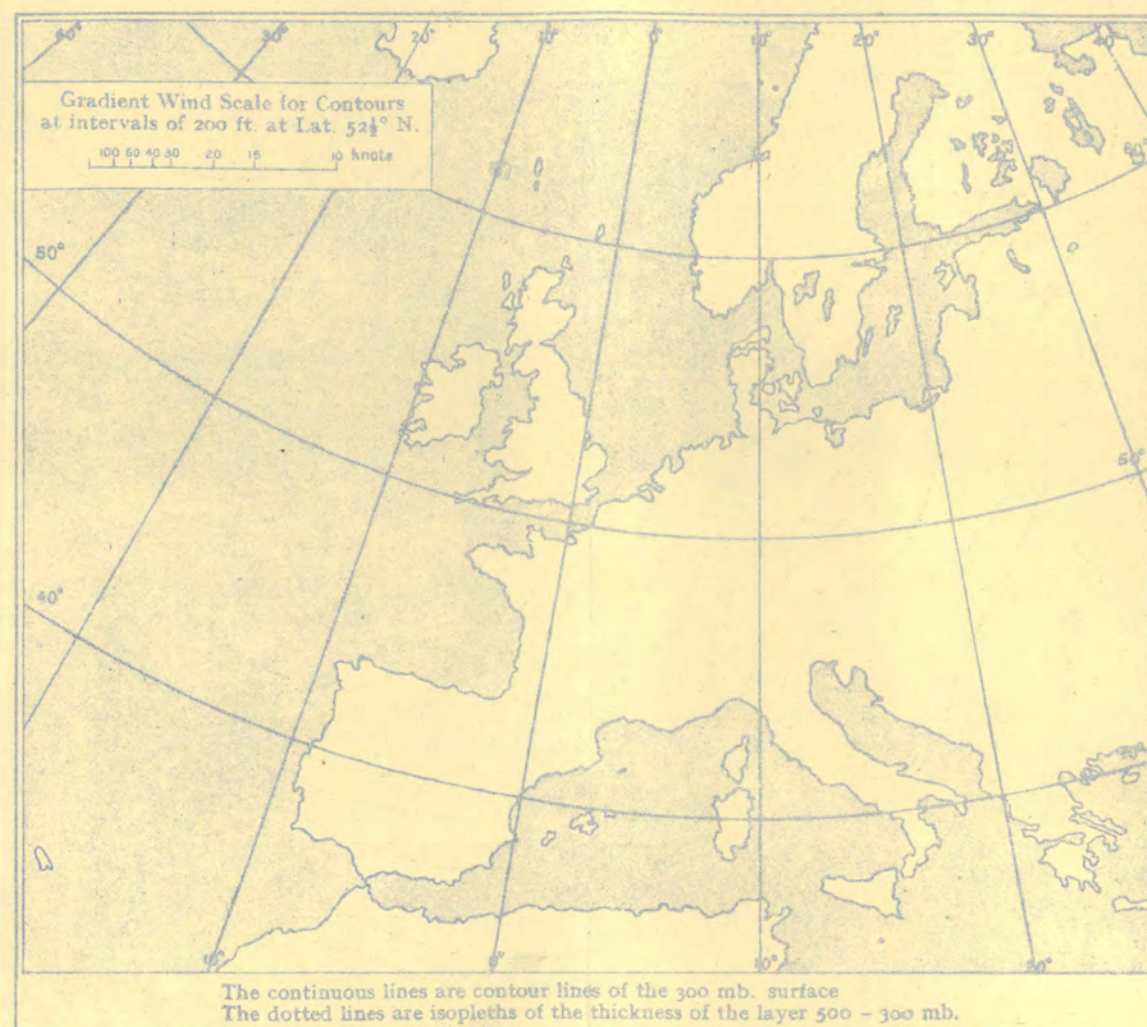
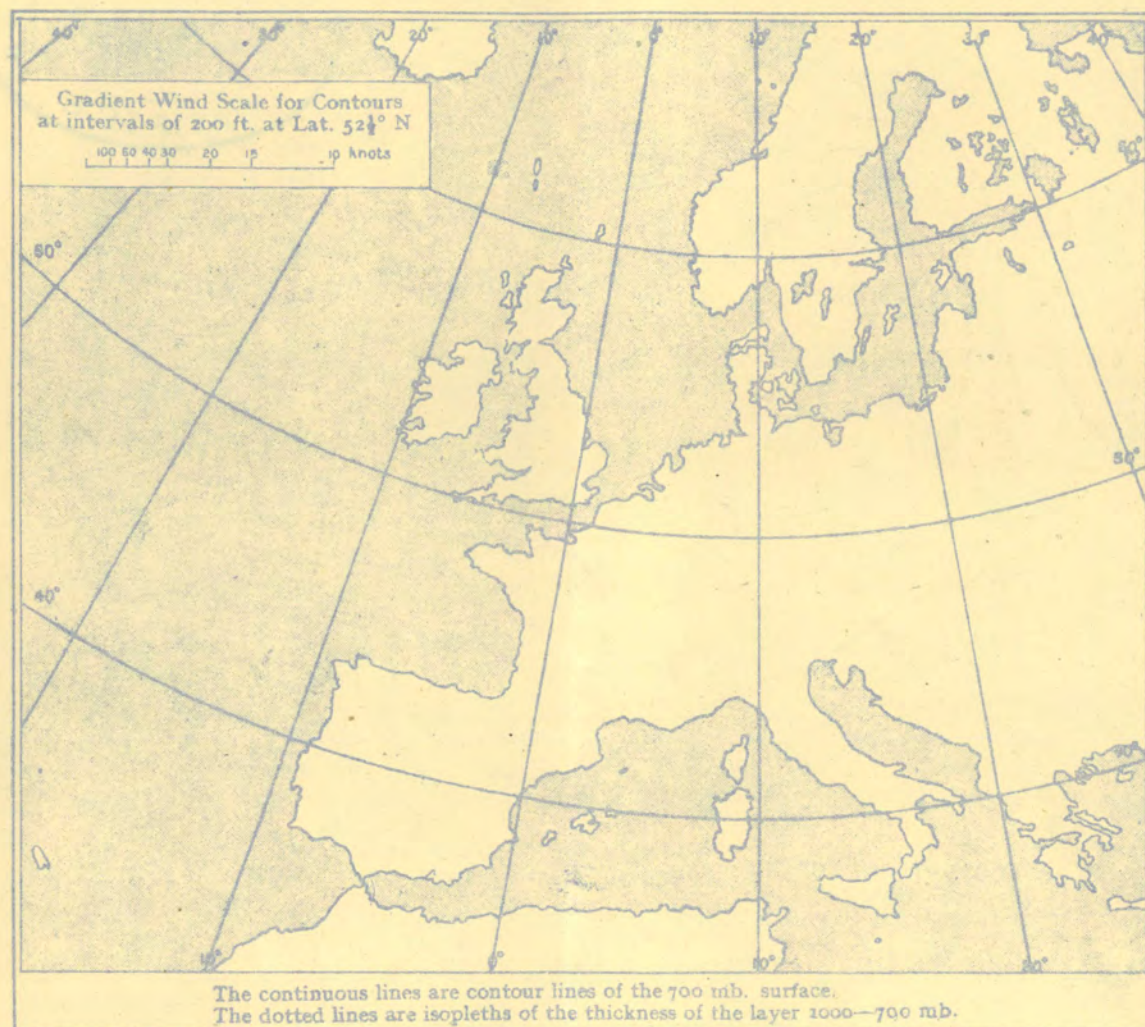
Meteorological Office, Air Ministry, Kingsway, London, W.C.2
NELSON K. JOHNSON, K.C.B., D.Sc., Director.



ISOPLETHS OF THICKNESS 500-1000 mb. at about 1500 h. G.M.T. Tuesday 28th February, 1950.



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 0300 G.M.T.



DIRECTION (degrees from N) and VELOCITY (knots) of UPPER WINDS at heights above M.S.L.NEPHOSCOPE OBSERVATIONSRADIO-SOUNDINGS OF TEMPERATURE, HUMIDITY AND WIND (Heights above M.S.L.) FROM SHIPS.

Ship				WEATHER RECORDER				WEATHER WATCHER				WEATHER RECORDER				WEATHER WATCHER																				Ship			
Lat/Long				60-0N 20-0W				53-8N 18-7W				60-0N 20-0W				53-8N 18-7W																				Lat/Long			
Pressure	Time	M.S.L.	Suri	15h 28/2 G.M.T.				15h 28/2 G.M.T.				21h 28/2 G.M.T.				21h 28/2 G.M.T.				G.M.T.				G.M.T.				G.M.T.				G.M.T.				Time	M.S.L.	Suri	Pressure
				1001 mb				1009 mb				1000 mb				1007 mb				mb				mb				mb				mb							
				1001 mb				1009 mb				1000 mb				1007 mb				mb				mb				mb				mb							
				920 mb				965 mb				910 mb				917 mb				mb				mb				mb				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						
Surf																																Surf							
1000	3-1	43	36	220 20	2-5	47	40	180 13	701	44	35	175 27	1-9	48	44	150 22																1000							
950		43	36			41	39							44	40	151 32																950							
900	28-2	35	28			39	34	191 18		36	35			44	40	151 32																900							
850		29	21			31	27	192 18	27-9	31	30			43	39	150 26																850							
800	58-5	23	16			32	23	198 18		25	25			41	37	153 21																800							
		19	11			27	26	220 21	58-4	22	22			42	33	161 18																							
750		13	07	For		28	22	240 20		21	21	For		39	26	169 15																750							
700	92-2	10	-07			24	17	263 20	92-6	17	17			32	20	212 12																700							
650		07	-18	winds		18	12	278 24		11	11	winds		26	08	244 18																650							
600	131	01	-17			11	07	278 32	131	04-02				21	03	261 26																600							
550		-05	-18	see		05	-05	283 44		-03	-10	see		12	-08	263 30																550							
500	175	-13	-37			181	-03	-14	294 52	176	-13	-26		183	01	-18	269 39															500							
450		-25	-42	top		13	-26	286 51		-26	-36	top of		11	-37	271 39																450							
400	227	-35	-46			234	-25	-36	270 42	227	-38	-48		237	-24	-49	277 37															400							
350		-47		of page		39	-49	286 56		-52				37	-57	272 51																350							
300	289	-62				298	-56		290 60	289	-70			301	-54		271 63															300							
250		-68					-73		277 66						-72		272 78															250							
200	375	-41				382	-80		277 60																							200							
170		-58					-64		277 51																							170							
150		-55					-62		282 48																							150							
130		-56					-65		283 36																							130							
110		-63					-65	(28 mb)																								110							
100	523	-65																														100							
90		-65																														90							
80		-67																														80							
70		-69																														70							
60		-72																														60							
		-73																																					
	(off)	-72		Inversion																																			
	mb																																						

1950

[illegible]