

O. FORM 2373

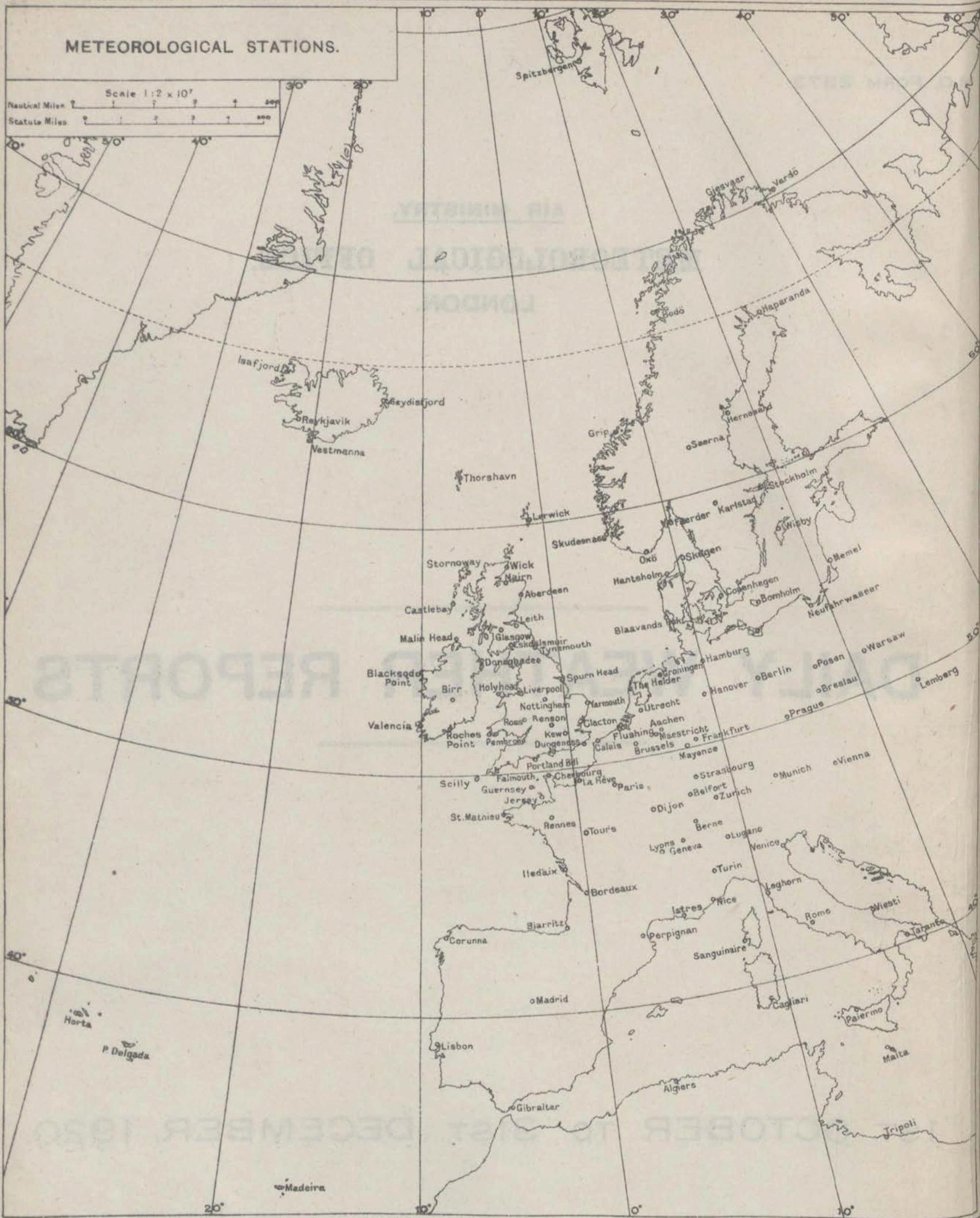
AIR MINISTRY.
METEOROLOGICAL OFFICE.
LONDON.

DAILY WEATHER REPORTS

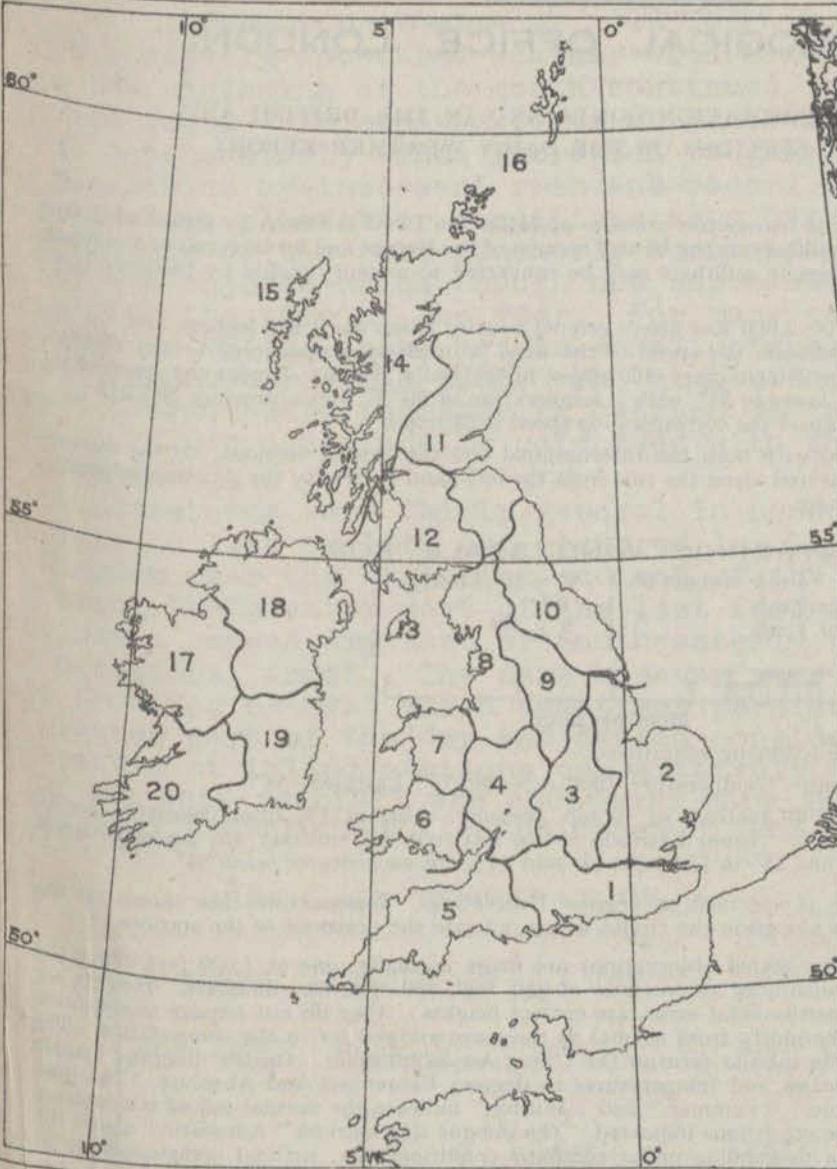
1ST OCTOBER TO 31ST DECEMBER, 1920.

METEOROLOGICAL STATIONS.

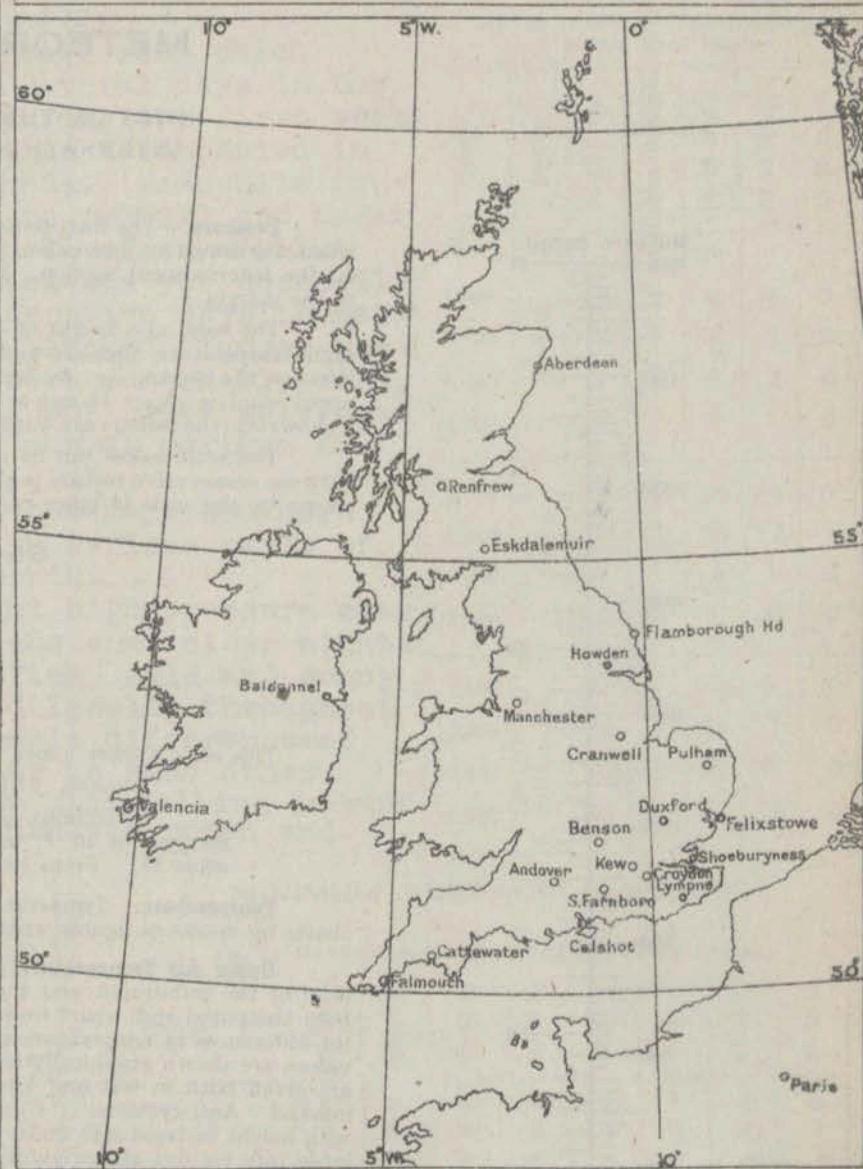
Scale $1:2 \times 10^7$
Nautical Miles. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Statute Miles. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



DISTRICTS.



STATIONS USED FOR UPPER AIR SUPPLEMENT.



THE BEAUFORT SCALE OF WIND FORCE.

Beaufort Number.	Admiral Beaufort's General Description of Wind.	Specification for use on Land, based on observations made at Land Stations.	Limits of Mean Velocities Statute Miles per Hour.
0	Calm ..	Calm ; smoke rises vertically ..	Less than 1
1	Light air ..	Direction of wind shown by smoke drift ..	1-3
2	Slight breeze ..	Wind felt on face ; leaves rustle ..	4-7
3	Gentle breeze ..	Leaves and small twigs in constant motion ; wind extends light flag ..	8-12
4	Moderate wind ..	Raises dust and loose paper ; small branches are moved ..	13-18
5	Fresh wind ..	Small trees in leaf begin to sway ; crested wavelets on inland waters ..	19-24
6	Strong wind ..	Large branches in motion ; whistling heard in telegraph wires ..	25-31
7	High wind ..	Whole trees in motion ; inconvenience felt when walking against wind ..	32-38
8	Gale ..	Breaks twigs off trees ; generally impedes progress ..	39-46
9	Strong gale ..	Slight structural damage occurs (chimney pots and slates removed) ..	47-54
10	Whole gale ..	Seldom experienced inland ; trees uprooted ..	55-63
11	.. ..	Very rarely experienced ; accompanied by widespread damage ..	64-75
12	Hurricane ..		Above 75

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
o overcast sky. d drizzle.
e wet air without rain falling
f fog. g gloom.
h hail. l lightning
m mist. p passing showers.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R=heavy rain rr=continuous moderate rain. r_ar_a=continuous slight rain

BEAUFORT NOTATION.

q squalls r rain.
rs sleet, i.e., rain and snow.
s snow. t thunder.
u ugly, threatening sky.
v unusual visibility.
w dew. x hoar frost.
y dry air; humidity less than 60 per cent.
z dust haze; the turbid atmosphere of dry weather.

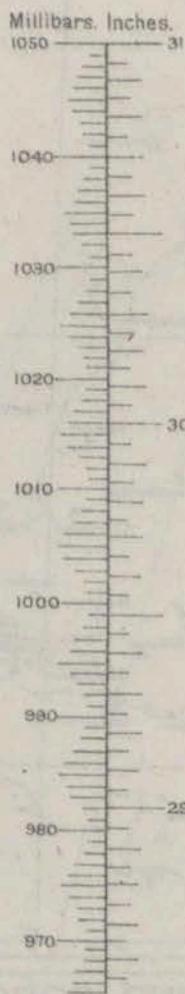
WEATHER SYMBOLS.

Clear sky	○	Sky 1/4 clouded	○
Sky 1/2 clouded	○	Sky 3/4 clouded	○
Overcast sky	○	Rain falling	○
Snow	×	Sleet	○
Fog	|||	Hail	○
Thunder	T	Mist	○
Lightning	△	Thunderstorm	○
Aurora	○	Gale	○
Rime	+	Solar halo	○
Glazed frost	○	Lunar halo	○
Glazed roads	○	Solar corona	○
Snow lying	○	Lunar corona	○

AIR MINISTRY.

METEOROLOGICAL OFFICE, LONDON.

NOTES ON THE INFORMATION CONTAINED IN THE BRITISH AND INTERNATIONAL SECTIONS OF THE DAILY WEATHER REPORT



Pressure.—The distribution of barometric pressure at Mean Sea Level is shown by means of isobars which are drawn for intervals of 2 millibars on the British Section of the Report and for intervals of 4 millibars on the International Section. Values in millibars may be converted to mercury inches by the scale given in the margin.

The wind at a height of 1,100–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, e.g., for isobars 1 inch apart (160 miles) in the Daily Weather Report the speed of the upper wind is about 12 m.p.h. in latitude 55°, with a temperature of 50° F. and a pressure of 1,015 mb. If, however, the isobars are $\frac{1}{2}$ inch apart the corresponding speed is 24 m.p.h.

The scale below can be used with both the International and the British Sections. If the distance between consecutive isobars is measured along the rule from the left-hand extremity the geostrophic wind is shown by the scale in miles per hour.



This scale applies under the following conditions —

Pressure, 1,015 mb Temperature, 283° A = 50° F. Latitude, 55°

Corrections.—For an increase of 10 mb pressure subtract 1% from velocity for an increase of 10° F add 2%. From Latitude 55° to Latitude 65° subtract 1% for each degree above 55°. From Latitude 55° to Latitude 45° add 14% for each degree below 55°.

Temperature.—Temperature is specified in degrees Fahrenheit. Temperatures are shown on the charts by means of figures written alongside the circles which indicate the positions of the stations.

Upper Air Temperature.—The actual observations are made normally, one at 1,000 feet above the level of the aerodrome, and the remainder at pressures of 950, 900, 850, 800, etc., millibars. Heights are then computed and, apart from instrumental error, are correct heights: they do not require modification for differences of temperature or humidity from normal as these are allowed for in the computation. The values are shown graphically and in tabular form in the Upper Air Supplement. On the diagram, heights are given both in feet and kilometres and temperatures in degrees Fahrenheit and Absolute. The lines marked "Anti-cyclonic," "Cyclonic," "Summer," and "Winter," indicate the normal fall of temperature with height or lapse rate under the conditions indicated. The oblique line marked "Adiabatic" shows the lapse rate for dry air ascending or descending under adiabatic conditions, i.e., without communication of heat from external sources. The lapse rate under these circumstances is very approximately 5.5° F. per 1,000 feet, or 10a per kilometre. A lapse rate greater than this value indicates instability of the atmosphere.

Cloud Types.—In the inset maps of the British Section and in the cloud maps of the Upper Air Supplement the amounts of different types of cloud are shown. The forms, Cumulus (Cu.), Nimbus (Nb.), Strato-cumulus (St.-cu.), Cumulo-nimbus (Cu.-nb), and Stratrus (St.) are set out on the chart of Lower Cloud. The forms, Alto-cumulus (A.-cu.), Alto-stratus (A.-st.), Cirrus (Ci.), Cirro-cumulus (Ci.-cu.), and Cirro-stratus (Ci.-st.) are given under Upper Cloud. The proportion of the sky covered with cloud of the different types is shown by numbers (tenths of the sky covered).

For description of Cloud Types reference may be made to " Meteorological Glossary," M.O. 225 ii, and " Cloud Forms," M.O. 233.

Weather.—In describing the distribution of weather over a district or during an interval of time such as a day, descriptive adjectives are used with the following meanings —

Fine—mainly b and bc of the Beaufort notation (see previous page).

Fair or fair generally—mainly bc and c.

Cloudy—combinations of bc, c and o, c predominating.

Overcast—mainly c and o.

Dull—overcast with low heavy cloud.

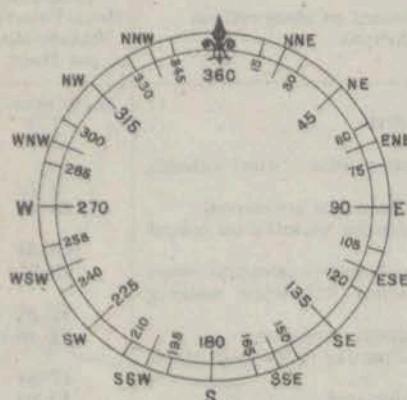
Varying or variable cloud—combinations of b, bc, c, and o.

Precipitation when occurring is specifically mentioned.

Wind.—All wind directions specified in the reports are "true," as distinguished from "magnetic." The arrows indicating wind direction are drawn to fly with the wind. Wind velocities are shown on the charts of the British Section and Upper Air Supplement in m.p.h. by the numbers placed within the small circles. In the International Section velocities are not shown. In both Sections the number of feathers on the arrows denotes wind force by Beaufort number.

Upper Winds.—The direction and velocity of the wind are given in the Upper Air Supplement for heights of 1,000 feet, 2,000 feet, 5,000 feet, 8,000 feet, 10,000 feet, and 15,000 feet. The data are usually based on Pilot Balloon ascents.

In the forecasts of upper wind, direction is specified in points and in degrees from true north measured through East 90°, South 180°, West 270° to North 360°. (See diagram in margin.)



Pressure.	Normal Height.	Normal
mb.	feet.	feet.
950	1780	—
850	4770	—
750	8050	—
650	11770	—

Reafield
Eskdalemuir
Valencia
Baldonnel
Manchester
Plymouth
Calshot
Lympe
Aberdeen
Craigmillar
Benson
London (Kew)
Croydon

0. Des
1. Ver
2. Bad
3. Ver

SUPPLEMENT TO THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON.

SUMMARY OF METEOROLOGICAL OBSERVATIONS AT SELECTED STATIONS ISSUED ON THE 1st DAY OF EACH MONTH.

Notes on the Weather of

DECEMBER, 1920

After a bright, sunny opening of the month the weather deteriorated rapidly. In the early hours of the 2nd gales were blowing in the Channel, rain became general and high winds or gales were experienced in most parts of the Kingdom within a day or two.

During the night of 7th - 8th much fog developed in England and persisted throughout the greater part of the day in London at a few hundred feet above the ground. Smoke from the crowded parts of the metropolis caused a darkness, as of night at times, to prevail both in the morning and afternoon.

Perhaps the most note-worthy feature of the month, so far as England is concerned, was the cold, snowy weather experienced during the second week-end. On the morning of Monday the 13th, the minimum temperature at Kew Observatory was 20° , the lowest for the year, while in the Midlands the frost was much more severe. Raunds reported -10° . Aeroplane observations on the previous day indicated that the Easterly current had brought a supply of unusually cold air to our islands: at Andover the reading at a pressure of 750 mb was more than 20° below normal.

Midday temperature in London remained below the average until the 19th but about Christmas mild, damp weather was re-established with variable amounts of rain and considerable fair periods. Individual records were not unprecedented in themselves but the persistence with which day and night temperatures both remained above the normal maximum was at least unusual for the season.

UPPER WINDS.

No. of records of Velocity (m.p.h.) within fixed limits.

Height ft.	Station.	No. of Obs.	Under 10 m.p.h.	10-25 m.p.h.	25-45 m.p.h.	45-70 m.p.h.	Above 70 m.p.h.
2,000	Valencia	38	8	19	10	1	0
		23	11	8	4	0	0
		11	2	6	3	0	0
		10	0	5	1	4	0
5,000	Lympne	15	0	5	3	2	0
		8	0	1	7	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
10,000	Eskdalemuir	2	8	1	0	0	0
		8	1	5	2	0	0
		1	0	1	0	0	0
		1	0	1	0	0	0
15,000		2	8	1	0	0	0
		8	1	5	2	0	0
		1	0	1	0	0	0
		1	0	1	0	0	0

UPPER AIR TEMPERATURE.

Pressure Normal Height	Normal Temperature	BALDONNEL.		SHOEBURYNESS.		S. FARNBOROUGH.		ANDOVER.	
		Mean.	No. of Reports.	Mean.	No. of Reports.	Mean.	No. of Reports.	Mean.	No. of Reports.
1,780	35	36°	18	-	0	40°	6	36°	20
4,690	29	30°	18	-	0	31°	5	25°	20
7,920	21	21°	18	-	0	24°	5	18°	19
11,560	9	12°	17	-	0	10°	3	8°	16

MINIMUM SURFACE HUMIDITY.

Station.	NO. OF DAYS WITH MINIMA BETWEEN FIXED LIMITS.							
	'95-100 %	90-94 %	80-89 %	70-79 %	60-69 %	50-59 %	40-49 %	30-39 %
Renfrew ...	2	5	14	8	2	0	0	0
Eskdalemuir ...	1	4	8	12	4	0	2	0
Valencia ...	0	0	8	9	12	2	0	0
Falmouth ...	1	1	4	9	9	7	0	0
Aberdeen ...	0	4	7	8	6	5	1	0
Leith ...	0	0	3	10	14	4	0	0
Benson ...	1	5	11	11	3	0	0	0
London (Kew Obs.)	0	2	12	12	5	0	0	0

SURFACE VISIBILITY. [No. of observations within fixed limits of telegraphic code (see below).]

STATIONS. No. observations were taken at 1h on 25th & 26th	1H.									7H.									13H.									18H.														
	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9		
Renfrew ...	*	*	*	*	*	*	*	*	*	1	3	3	6	10	1	7	0	0	0	1	3	10	3	5	1	3	3	2	0	1	0	8	8	2	4	2	2	0				
Eskdalemuir ...	0	0	3	1	5	6	7	6	1	0	0	0	2	5	4	5	4	9	2	0	0	1	0	3	2	7	6	7	5	0	0	1	0	6	2	5	4	2	1	0		
Valencia ...	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	1	2	1	12	15	0	0	0	0	0	0	0	3	5	22	1	0	0	0	1	0	2	6	9	12	1	0
Baldonnel ...	0	0	0	4	10	8	6	1	0	0	0	2	0	3	2	4	6	10	4	3	0	0	0	0	2	5	9	5	10	0	0	0	0	1	10	8	2	0	0			
Manchester (Alex. Pk.)	*	*	*	*	*	*	*	*	*	2	0	0	17	8	1	1	1	0	2	1	3	5	11	5	2	1	1	0	2	1	3	13	7	2	2	1	0	0				
Falmouth ...	0	0	0	1	2	6	3	14	3	0	0	0	2	0	2	8	16	3	2	0	0	1	2	5	11	8	4	0	0	0	1	9	11	8	2	0	0					
Caithness ...	0	0	0	1	4	5	8	3	8	0	0	0	0	1	2	7	12	4	5	0	0	0	3	9	2	9	3	5	0	0	0	1	3	6	4	9	3	5	0			
Lympne ...	0	2	0	2	4	10	6	3	2	0	1	2	2	2	5	7	7	4	1	0	0	2	1	2	5	4	7	3	7	0	0	2	0	3	6	8	6	4	2			
Aberdeen ...	*	*	*	*	*	*	*	*	*	0	0	2	2	8	9	5	3	2	0	0	3	4	7	4	4	5	0	0	1	1	3	12	5	3	3	3	0					
Cranwell ...	0	0	2	2	6	14	5	0	0	0	1	2	0	6	13	7	2	0	0	1	2	7	6	7	6	3	3	2	0	0	1	1	4	7	6	6	5	1	0			
Benson ...	*	*	*	*	*	*	*	*	*	0	0	2	3	6	8	6	1	5	0	0	0	2	2	7	6	6	3	3	2	0	1	1	4	7	6	6	5	1	0			
London (Kew Obsy.)	*	*	*	*	*	*	*	*	*	2	1	3	2	4	10	4	5	0	0	0	1	3	6	9	7	3	0	2	0	1	1	2	6	11	7	3	0	0				
Croydon ...	0	1	4	2	5	5	10	1	1	0	0	2	2	5	8	5	6	3	0	0	1	0	4	8	6	2	6	4	0	0	1	0	7	4	5	4	9	1	0			

TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

0. Dense fog.
1. Very Bad.
2. Bad.
3. Very Poor.

Objects not visible at 50 metres (or yards)

4. Poor.
5. Indifferent.
6. Fair.

Objects not visible at 4,000 metres (or yards)

7. Good.
8. Very Good.
9. Excellent.

Objects not visible at 20,000 metres (12.4 miles)
Objects visible beyond 20,000 " (12.4 ")
Exceptional visibility.

SUMMARY OF RECORDS OF TEMPERATURE, SUNSHINE AND RAINFALL, DECEMBER, 1920.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B. 21559 WEDNESDAY, 1ST DECEMBER, 1920.

AS ENDED 7H.	
TEMPERATURE.	
Max. °F.	Min. °F.
52	41
54	42
59	52
68	46
65	47
61	52
61	54
65	55
66	43
72	61
66	46
Weather.	Sea
Sun	0-8

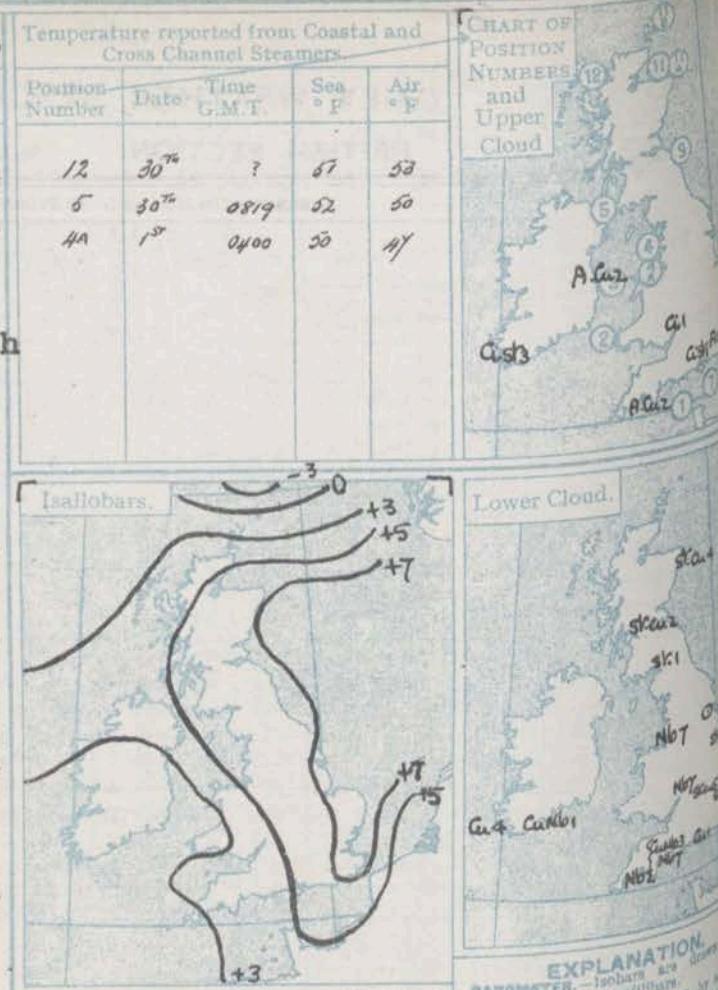
STATIONS.	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H., 7H., 18H. AND 24H.																										
	BAROM. at M.S.L. mb.	Wind. Dir. Change in 2 hours.	Wind. Dir. Force 0-12.	Temp. °F.	Humidity %	Visibility 0-6.	Height of Low Cloud. Feet.	Low Cloud.			Upper Cloud			BAROM. at M.S.L. mb.	Wind. Dir. Change in 2 hours.	Wind. Dir. Force 0-12.	Temp. °F.	Humidity %	Visibility 0-6.	Height of Low Cloud. Feet.	Low Cloud.			Upper Cloud			Sea
								Form.	Amt. 0-10.	Form.	Amt. 0-10.	Form.	Amt. 0-10.								Form.	Amt. 0-10.	Form.	Amt. 0-10.			
18H. G.M.T. OF 30 TH NOV. ⁸																					18H. G.M.T. OF 30 TH NOV. ⁸						
Renfrew ...	10056	-6	ESE	3	OW	47	85	6	2000	St	7	A.S.H.	8	9993	-5	ESE	5	05	48	92	5	2000	Nb	10	-	-	
Eskdalemuir ...	10069	-5	SSE	3	C	47	85	6	2000	Cu	3	C.S.	5	10020	-4	SE	4	02f	46	85	5	-	SC	10	-	-	
Valencia (Cahirc'n)	9913	+3	SW	4	01f	48	85	7	2000	St	7	A.S.H.	3	10025	+13	WSW	7	b	48	85	8	2000	Cu	2	-	-	
Baldonnel ...	9963	-12	SSE	6	0R3f	52	85	5	2000	St	10	-	-	9971	+4	S	3	05	45	92	4	2000	Sh	9	-	-	
MANCHESTER (A.R.E.)	10089	-5	SSE	4	02f	48	85	4	2000	St	10	-	-	10035	-4	SSE	7	0r	49	85	4	2000	Nb	10	-	-	
Ross on Wye ...	10083	-6	SW	3	O	51	85	7	2000	Nb	7	A.S.H.	3	10039	-5	WSW	2	o	47	85	7	2000	Sh	10	-	-	
Falmouth ...	10026	-10	SSB	7	0Rq	53	97	5	-	Nb	10	-	-	10067	+7	WSW	6	cPq	47	75	6	-	Nb	7	-	-	
Calshot (Hants) ...	10121	-4	S	4	O	51	92	8	1250	St	6	A.S.H.	4	10068	-6	S	5	rRq	51	97	5	1500	Nb	10	-	-	
Lympne (Folkestone) ...	10148	-2	S	3	01f	48	97	7	1250	St	10	-	-	10122	-4	S	6	0g.m	48	85	5	1500	Sh	10	-	-	
Aberdeen ...	10087	-2	S	1	C.3f	47	85	3	750	St	8	-	-	10055	-4	SSE	4	02f	48	92	4	750	Sh	10	-	-	
Howden ...	10096	-3	SSE	2	02f	47	97	4	1500	St	10	-	-	10065	-5	SSE	5	o9	47	97	4	1500	Sh	10	-	-	
Cranwell (Lines) ...	10123	-3	SSE	3	02f	46	97	5	1500	St.Cu	10	-	-	10078	-5	SSE	5	o	46	97	5	750	Sh	10	-	-	
Felixstowe ...	10152	-3	SSW	2	C	50	97	6	2000	St	1	Ci	6	10125	-8	S	4	bc	47	97	6	1250	Sh	6	-	-	
Shoeburyness ...	10142	-3	SSN	1	Cu	51	95	7	1250	St.Cu	7	A.Cu	1	10113	-3	SSW	4	o	49	95	7	2000	St.Cu	9	A.S.H.	1	
Benson ...	10103	-5	SSB	4	O	51	95	6	-	St	10	-	-	10063	-6	SSE	5	or	49	92	5	-	Nb	10	-	-	
S. Farnborough ...	10129	-3	S	3	04	50	95	6	2000	Nb	10	-	-	10077	-6	S	5	0R3f	50	97	5	750	Nb	10	-	-	
London (Kew Obsy.)	10130	-5	SSB	4	02f	52	95	5	1250	Cu.Nb	8	A.S.H.	2	10086	-5	SE	4	o	50	85	5	1250	Nb	10	-	-	
Croydon ...	10135	-3	SSB	4	04	50	95	6	1250	St.Cu	10	-	-	10100	-5	S	4	02f	49	92	5	1250	Nb	8	Sh	2	
1H. G.M.T. OF 1 ST DEC. ⁸																					7H. G.M.T. OF 1 ST DEC. ⁸						
Renfrew ...	10027	14	W	4	0r	41	85	6	-	NB	10	-	-	10080	-6	SW	4	8	46	88	6	3000	SLG	2	-	-	
Eskdalemuir ...	10082	18	S	3	2	49	85	5	1200	St.Cu	1	-	-	10100	-6	WSW	4	6	36	85	7	-	Sl	1	-	-	
Valencia (Cahirc'n)	10082	18	S	3	2	49	85	5	1200	St.Cu	1	-	-	10118	-2	SSW	4	cO	16	75	8	3000	Gu	4	Ci	3	
Baldonnel ...	10082	18	S	3	2	49	85	5	1200	St.Cu	1	-	-	10212	-2	SSW	3	8	40	85	5	-	A.Cu	2	-	-	
MANCHESTER (A.R.E.)	10156	16	W	6	3	44	78	7	-	St.Cu	1	-	-	10139	-6	13..	5	6f	48	85	7	5000	Nb	210	-	-	
Ross on Wye ...	10156	16	W	6	3	44	78	7	3000	St.Cu	4	A.Cu	4	10163	-3	WSW	3	c	41	92	Y	3000	Nb	Y	Ci	1	
Falmouth ...	10142	10	W	3	30	44	99	8	3000	St.Cu	4	A.Cu	4	10174	-2	WSW	4	6c	43	92	Y	-	Nb	2	A.Cu	2	
Calshot (Hants) ...	10142	10	W	3	30	45	92	7	1200	St.Cu	10	-	-	10191	-6	WSW	3	6f	44	85	6	2000	Cu	1	-	-	
Lympne (Folkestone) ...	10143	11	SW	3	01f	45	92	7	-	10204	-6	SW	2	34	91	8	-	-	-	-	-	-	-	-	-		
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	10057	-7	SEW	3	6f	49	76	6	4200	SLG	4	-	-	
Howden ...	10060	-6	SSW	4	01q	46	99	6	1250	Nb	8	A.S.H.	2	10101	-4	S	1	5x	34	92	4	-	-	-	-	-	
Cranwell (Lines) ...	10071	-3	WSW	3	0	46	86	6	4200	St.Cu	9	C.3f	3	10102	-6	SW	3	6	37	85	6	4200	SLG	2	-	-	
Felixstowe ...	10116	-2	SW	3	0R2f	46	92	5	1200	St.Cu	4	A.Cu	3	10180	-8	W	3	3	41	85	6	-	-	A.S.H.	1	-	-
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	10161	-6	SW	3	bc	34	92	8	-	-	Ci	1	-	-
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	10188	-5	WSW	1	8	33	97	Y	-	-	SLG	6	-	-
S. Farnborough ...	*	*	*	*	*	*	*	*	*	*	*	*	*	10189	-7	SW	2	3m	39	86	4	3000	Sl	1	-	-	
London (M.O. at 1m.)	10120	-6	* *	*	*	*	*	*	*	*	*	*	*	10192	-8	5	3	6f	38	85	6	-	-	A.S.H.	1		

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 1.12.1920.

District.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fine, mist locally.	Good	Slight
2. E. England	Fine.	"	Smooth
3. E. Midlands	Fine.	"	-
4. W. Midlands	Fair to cloudy.	"	-
5. S. W. England	Fair, local rain & squalls.	"	R. Rough
6. South Wales	Fine.	V. Good	"
7. North Wales	Fair.	Good	Mod.
8. N.W. England	Fair, local showers.	"	"
9. N. Midlands	Fair, local showers.	"	-
10. N.E. England	Fine.	Indiff.	Slight
11. E. Scotland	Fair, some mist.	Fair	Mod.
12. S.W. Scotland	Fine.	Good	Slight
13. Isle of Man	Fair.	"	"
14. N. & N.W. Scotland	Fair to dull, some mist.	"	Mod.
15. Hebrides	Fair.	"	Slight
16. Orkneys and Shetlands	Showery, squally.	Poor	Rough
17. N.W. Ireland	Cloudy, squally.	Fair	"
18. N.E. Ireland	Cloudy to fair.	Good	Slight
19. S.E. Ireland	Fair.	"	Mod.
20. S.W. Ireland	Fair.	"	"

GENERAL INFERENCE from observations received up to 9h.

A temporary improvement in the weather will accompany a rise of the barometer now in progress over the British Isles, but fresh depressions are likely to cause further rains, beginning in the West, before the ensuing 24 hours have elapsed.



Barometric change from 4 h. to 7 h. (half millibars).

EXPLANATION.	
BAROMETER.	isohara are intervals of two millibars.
WIND.	—Direction is shown by flying with the wind. Force 0-12, is indicated by the per hour; Mean velocity is shown by figures in small circles.
TEMPERATURE.	is given in degrees.
WEATHER SYMBOLS.	clear sky. clouded sky. overcast sky. rainy day. snow. fog. Thunder. Sea Disturbance. Houle.

Further Outlook

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Wednesday, 1st December, 1920.
1. S.E. England	
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	

Continuing west
settled, with
South and South
West winds, and
occasional rain.

→ South Cone still flying

SYNOPTIC CHART FOR MORNING OF WEDNESDAY, 1ST DECEMBER, 1920.

Nautical Miles,
Statute Miles.

Scale - 1:10,000,000
100 N.
100 S.
0 E.
100 W.
200

Barometer
LOW
falling

rather

briskly.

Barometer

1000 46 10 Fair

1002 45 10 Cloudy

1004 46 2 38 46 10 Fair

1006 46 15 37 10 Fair

1008 46 10 33 10 Fair

1010 46 15 33 10 Fair

1012 46 2 47 10 Fine

1014 46 15 47 10 Fine

1016 47 15 49 10 Fine

1018 49 10 43 10 Fine

1020 49 2 37 10 Fair

1022 49 15 41 10 Fine

1024 49 10 41 10 Rain

HIGH

41 10 Fine

41 2 41 10 Fine

41 2 39 10 O'cast

41 0 39 10 O'cast

41 15 39 10 Cloudy



TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).	
0. Dense fog.	Objects not visible at 50 metres (or yards).
1. Very Bad.	200
2. Bad.	1,000
3. Poor.	2,000
4. Fair.	4,000
5. Indifferent.	7,000
6. Good.	12,000 (4.3 miles)
7. Very Good.	20,000 (12.4 miles)
8. Excellent.	Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. NO. 326.

WEDNESDAY
1ST DECTHWEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 30TH NOV.

STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 18h-19h 29 th -30 th	Day. 9h-10h 30 th	Sunrise to Sunset. 30 th	10 th			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 17h-18h 29 th -30 th	Day. 9h-10h 30 th	Sunrise to Sunset. 30 th	10 th
England, Scotland.	Oban ...	bcb	bbcccd	51	35	4	-	1.4		England, N.W.	Douglas (I.O.M.)								0.0
	Bauff ...	cbc	bccecd	48	43	2	-	3.6			Blackpool ...	co	-	50	42	2	-		0.0
	Montrose ...										Southport ...	co	0	50	42	1	-		0.4
	St. Andrews ...										MORECAMBE	-	-	51	41	1	1		
England, N.E.	Harrogate ...	fo	o	46	40	4	0.1	0.0		Midlands.	Buxton ...								0.0
	Scarborough ...	o	o	43	42	0.3	-	0.0			Leamington Spa...	o	od	52	38	0.3	-		0.0
	Skegness ...	fogg	oc	48	43	1	-	0.0			Malvern ...	or	ro	49	39	1	7		0.0
	Lowestoft ...	sm	sm	51	48	2	-	1.3			Bath ...	ocbcb	or	53	40	1	9		0.0
England, S.E.	Felixstowe ...	oc	co	53	40	1	-	1.0		Wales.	Rhyl ...	fo	r	51	40	2	4		0.2
	Southend-on-Sea ...										Colwyn Bay ...	-	-	52	43	3	3		0.0
	Tunbridge Wells	o	o	50	46	2	-	0.0			Llandudno ...	*	*	52	43	0.2	3		0.0
	Margate ...			52	46	1	-	0.1			Aberystwyth ...	roc	ro	53	44	1	4		0.0
England, S.W.	Ramsgate ...	oge	oge	52	48	2	-	0.1		England, S.W.	Swansea ...	...	...	...	...	...	...	...	0.2
	Folkestone ...	o	o	52	48	4	-	0.0			Weymouth ...	o	opo	54	45	2	6		0.0
	Hastings ...	o	o	52	48	7	-	0.0			Teignmouth ...	...	...	...	...	...	...	...	0.0
	Eastbourne ...	o	o	51	49	8	0.2	0.0			Torquay ...	cR	oR	54	44	2	4		0.0
England, S.W.	Brighton ...	o	o	52	48	5	-	0.1			Paignton ...	oR	cbsqj	54	38	1	4		0.0
	Worthing ...	c	op	52	44	4	-	0.2			Penzance ...	oR	ocdc	55	46	0.3	5		0.0
	Littlehampton ...	-	-	54	44	2	-	2.0			Newquay ...	oboj	obc	54	43	0.3	4		0.1
	Portsmouth (S'thess)			52	45	6	6	0.0			Bude ...	rcoc	cpcp	54	43	0.1	2		0.0
England, S.W.	Bournemouth ...	*	*	53	45	6	-	1.5			Iffracombe ...	ob	ob	54	47	-	10		0.0
	Ventnor (I. of W.)	*	*	53	47	1	2	1.5			Weston-s-Mare ...	or	ro	53	40	1	10		0.0

STATIONS.		SUMMARIES FOR PAST 24 HOURS.								RAINFALL. [†]	Sun. Hours.	mm.	mm.	mm.	mm.	mm.	
		WEATHER.	7h-18h 30 th	18h-19h 30 th	18h-19h 31 th	1h-7h 1 st	Max. Temp. °F.	Min. Temp. °F.	Min. on Gross. °F.								
Renfrew ...	bcc ² bcc	o	o	o	o	o	79	40	32	rain	6	16					
Eskdalemuir ...	+fbccbc	co	o	o	o	o	77	36	32	rain	6	16					
Valencia (Cahircivey) ...	o	o	o	o	o	o	54	49	36	22	7	0.0					
Baldonnel ...	o	o	o	o	o	o	53	38	34	5	3	0.4					
MANCHESTER (Aire) ...	bbcfcoco	o	o	o	o	o	59	37	28	1	1	0.6					
Ross on Wye ...	oRR	o	o	o	o	o	52	38	30	5	1	0.0					
Falmouth ...	cop	o	o	o	o	o	54	41	36	6	2	0.0					
Calshot (Hants) ...	o	o	o	o	o	o	53	41	36	2	2	2.0					
Lympne (Folkstone) ...	o	o	o	o	o	o	50	35	31	0.2	6	0.2					
Aberdeen ...	o	o	o	o	o	o	49	35	28	-	3	1.2					
Howden ...	o	o	o	o	o	o	47	34	28	-	3	0.0					
Cranwell (Lincs) ...	o	o	o	o	o	o	46	36	22	0.2	2	0.6					
Felixstowe ...	o	o	o	o	o	o	52	41	36	-	4	1.4					
Shoeburyness ...	o	o	o	o	o	o	53	39	28	0.2	2	1.2					
Benson ...	o	o	o	o	o	o	52	33	25	1	2	0					
S. Farnborough ...	o	o	o	o	o	o	51	39	29	1	5	0.1					
London (Kew Obsy) ...	o	o	o	o	o	o	53	39	30	0.1	4	0.4					
Croydon ...	o	o	o	o	o	o	53	38	28	0.1	Y	+					

BEAUFORT NOTATION.
 b blue sky (not more than a quarter covered).
 bc sky partly cloudy (one half covered).
 c generally cloudy (three quarters covered).
 d drizzle, or fine rain.
 e wet air without rain falling.
 f fog.
 g gloom.
 h hail.
 i lightning.
 m mist.
 o overcast sky.
 p passing showers.
 q squall.
 r rain.
 rs sleet, i.e., rain and snow together.
 s snow.
 t thunder.
 u ugly, threatening sky.
 v unusual visibility.
 w dew.
 x bear frost.
 y dry air; humidity less than 60 per cent.
 z dust haze; the turbid atmosphere of dry weather.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
 R = heavy rain.
 rr = continuous moderate rain.
 r,r = continuous light rain.

No.	Statute miles per hour.	Metres per second.	THE BEAUFORT SCALE OF WIND FORCE.	
			Used only for surface observations.	Limit of Velocity at about 30 feet above ground.
0	Less than 1	Less than 0.0		
1	1-8	1-8		
2	4-7	5-8		
3	8-12	8-12		
4	18-22	18-22		
5	22-28	22-28		
6	28-36	28-36		
7	36-44	36-44		
8	47-54	47-54		
9	55-63	55-63		
10	64-75	64-75		
11	76-87	76-87		
12	Above 87	88-100		

SYMBOLS-	
Aurora	△ Solar halo
Rime	□ Lunar halo
Glazed frost	~ Solar corona
Glazed roads	○ Lunar corona

TABLE SHOWING THE GREENWICH TIME IN THE UNITED KINGDOM	
SUNRISE.	NOON.
1 ST DEC TH	1 ST DEC TH
Stations.	Sunrise. G.M.T. G.M.T.
Yarmouth ...	7.42 11.42 3.42
Greenwich ...	7.43 11.43 3.43
Total ...	11.3 Joules.
Milliwatts.	1.49 2.51 3.25
Average Rate.	3.8
Maximum Rate.	22
Valencia ...	3.24 12.30 3.23

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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON

BRITISH SECTION.

No. B-21,560

Thursday 2nd December 1920.

STATIONS	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																										
	BAROM. at M.S.L. mb.	± Change in 2 hours.	WIND. Dirac. Force 0-12.	Weather	TEMP. °F.	Humidity. % 0-6.	Visibility Feet	Height of Low Cloud. Feet	Low Cloud	Upper Cloud	Sea	BAROM. at M.S.L. mb.	± Change in 2 hours.	WIND. Dirac. Force 0-12.	Weather	TEMP. °F.	Humidity. % 0-6.	Visibility Feet	Height of Low Cloud. Feet	Low Cloud	Upper Cloud	Sea					
18H. G.M.T. OF 1 st																											
Renfrew ...	1011.7	+2	SSW	4	C	45	75	7	2,000	Stm	8	-	-	1012.3	0	S	2	b	40	85	7	3,000	Scn	1	-	-	
Eskdalemuir ...	1012.8	+1	SW	4	b	43	85	8	2,000	Cd	3	-	-	1014.3	+1	SSW	3	c	37	92	6	-	Scn	7	-	-	
Valencia (Cahirc'n)	1009.9	-3	S	4	o	51	75	8	2,000	St.G	6	ASH	4	1005.7	-5	s	3	o	48	92	7	2,000	Scn	7	A3	3	
Baldonnel ...	1013.1	+2	SW	5	0g	46	75	8	4,200	St.	3	ASH	6	1011.4	-1	s	3	o	45	85	5	2,000	Scn	5	1	-	
Didsbury ...	1017.0	+3	SW	3	bif	47	75	7	3,000	St.Cd	1	-	-	1017.1	-1	s	3	bif	43	85	7	-	-	-	-	-	
Ross on Wye ...	1018.2	+1	HWS	4	bc	49	75	8	4,200	Cd.	1	C	2	1018.0	0	bce	5	bif	45	75	7	-	Sc	10	-	-	
Falmouth ...	1019.3	-2	SSW	4	o	52	75	8	-	Sc.Cd	1	ASH	9	1015.1	-6	bse	4	o	52	85	6	-	Sc	10	-	-	
Calshot (Hants) ...	1020.9	0	SW	3	c	51	85	8	2,000	Cd	4	C	3	1021.0	-1	SSE	2	0if	47	92	6	2,000	Ash	8	St	2	
Lympne (Folkestone)	1022.8	+1	SW	3	o	47	85	8	1,250	St.Cd	10	-	-	1023.1	0	SSW	1	b	43	92	8	-	-	-	-	-	
Aberdeen ...	1010.7	+4	SSH	4	bif	43	75	4	-	-	H.Cd	2	4	1013.2	+2	S	3	b2fe	42	75	4	-	C	-	-	4	
Howden ...	1018.6	+2	SW	2	b	46	85	6	3,000	??	??	CASH	1	1018.0	0	S	2	b	40	92	5	2,000	Scn	2	-	-	
Cranwell (Lincs) ...	1018.6	+3	SW	4	b	46	85	6	-	-	ASH	1	2	1019.8	+1	S	3	bw	39	97	5	4,200	Scn	1	-	-	
Felixstowe ...	1021.3	0	SSN	3	bif	48	75	5	-	-	C	2	2	1022.2	+1	SW	2	b2f	43	97	5	-	-	-	-	-	
Shoeburyness ...	1021.2	+2	SH	2	bc	49	75	6	3,000	St.Cd	5	H.Cd	1	1021.9	+1	-	0	b	41	85	6	-	-	-	-	-	
Benson ...	1019.4	+1	SX	3	b	49	75	9	-	Cd	1	C	1	1020.2	0	S	1	b	40	85	7	-	-	-	-	-	
S. Farnborough	1020.9	0	SW	4	bc	49	75	8	3,000	St.Cd	4	CASH	2	1021.2	-1	SE	2	b	41	91	7	4,000	Scn	2	C.S	1	
London (Kew Observatory)	1020.9	0	SW	3	b	48	75	6	-	-	ASH	1	2	1021.4	0	SSW	2	bwm	41	85	4	-	-	-	-	-	
Croydon ...	1020.9	+1	HWS	4	bif	48	75	8	3,000	St.Cd	3	H.Cd	2	1022.1	+1	SW	3	bifw	41	97	6	-	-	-	-	-	
1H. G.M.T. OF 2 nd																											
Renfrew ...	1011.5	-3	S	3	o	40	92	5	-	St	10	-	-	1010.2	+1	s	4	o	45	92	6	1250	Scn	10	-	-	
Eskdalemuir ...	1006.4	+3	NNN	3	op	47	*	*	x	2,000	St	10	-	-	1012.4	+2	SSW	4	oif	41	97	5	2,000	Nb	10	AC	5
Valencia (Cahirc'n)	1005.9	-2	S	3	0c3f	46	92	5	-	-	St	10	-	-	1014.6	+8	NNN	4	c	48	65	8	3,000	Cu	1	-	-
Baldonnel ...	1005.9	-2	S	3	0c3f	46	92	5	-	-	St	10	-	-	1012.1	+6	SW	2	o	43	97	7	1250	Scn	9	-	-
Didsbury ...	*	*	*	*	*	*	*	*	x	x	x	x	x	*	1013.0	+1	SE	3	ORif	44	92	3	750	Nb	10	-	-
Ross on Wye ...	*	*	*	*	*	*	*	*	x	x	x	x	x	*	1011.1	+1	E	3	od	41	97	5	1250	Nb	10	-	-
Falmouth ...	*	*	*	*	*	*	*	*	x	x	x	x	x	*	1011.4	+10	NW	7	bif	51	95	7	-	CuN	2	-	-
Calshot (Hants) ...	1004.7	-11	SE	8	0rq	49	97	4	-	NB	10	-	-	1003.5	-7	SE	7	0if	47	97	5	1250	Nb	10	-	-	
Lympne (Folkestone)	1015.4	-7	S	6	0rq	49	95	8	2,000	St.	10	-	-	1014.9	-5	s	8	0rqm	41	97	4	4,000	Nb	10	-	-	
Aberdeen ...	1015.5	-4	SW	3	o	48	85	8	1,250	St.Cd	10	-	-	1011.3	0	SSE	4	0if	46	85	5	1250	Nb	10	-	-	
Howden ...	*	*	*	*	*	*	*	*	x	x	x	x	x	*	1014.3	0	S	2	03fe	41	97	2	4,000	Scn	10	-	-
Cranwell (Lincs) ...	1016.0	-5	-	0	03f	35	97	3	1,400	St	10	-	-	1015.1	-1	SE	3	0f	41	97	5	1250	Nb	10	-	-	
Felixstowe ...	1017.5	-5	SE	3	0if	35	97	4	2,000	St	10	-	-	1016.6	-1	S	5	0f	45	85	7	1250	Nb	10	-	-	
Shoeburyness ...	1019.5	-2	S	4	0if	47	92	5	1,250	St.Cd	10	-	-	1015.1	-3	S	6	0Tq	44	85	5	1250	CuN	10	-	-	
Benson ...	*	*	*	*	*	*	*	*	x	x	x	x	x	*	1011.3	-1	ESB	4	0Tif	41	92	3	-	Nb	10	-	-
S. Farnborough	*	*	*	*	*	*	*	*	x	x	x	x	x	*	1011.7	-5	E	4	0Tif	42	97	4	1280	Nb	8	Ash	2
London (M.O. at 1m)	1016.7	-4	SE	4	0if	46	95	6	2,000	St	10	-	-	1013.9	-3	ESB	5	0Tif	41	91	5	2,000	Nb	10	-	-	
Croydon ...	1017.5	-5	SSW	4	0if	45	95	6	2,000	St	10	-	-	1013.9	-3	ESB	5	0Tif	41	91	5	750	Nb	10	-	-	
7H. G.M.T. OF 2 nd																											
STATIONS CONTRIBUTING REPORTS AT 7H. AND 13H.																											
STATIONS	BAROM. at M.S.L. mb.	TEMP. °F.	WIND. Dirac. Force 0-12.	Weather	BAROMETER. at M.S.L. mb.	1 Change in 3 hours.	TEMP. °F.	WIND. Dirac. Force 0-12.	Wind. Dirac. Force 0-12.	Weather	Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	WEATHER.	Sunshine Hours												
Lerwick ...	1009.4	46	S	3	?c	1010.1	-2	48	+1	SE	7	SE	c	5	7	48	45	0qt	bcm	bc	bc	bc	bc	bc	bc		
Stornoway ...	1006.2	43	WSW	2	c	1002.5	+6	45	+2	SW	6	-	orq	5	12	47	41	opc	bcpc	bcpc	bcpc	bcpc	bcpc	bcpc	bcpc		
Castlebay (Barra) ...	1006.0	48	S	4	o	1007.1	+5	47	+1	W	2	-	bc	4	5	49	42	bchpc	chp o	chp o	chp o	chp o	chp o	chp o	chp o		
Malin Head ...	1006.1	43	SW	3	bc	1007.5	+3	47	?	W	2	w	bc	3	1	50	39	106	bc	c	c	c	c	c	c		
Black sod Point ...	1002.3	47	S	5	0mpt	1008.6	+5	45	0	W	2	-	bc	2	24	53	42	bcp	bcp	omrbc	omrbc	omrbc	omrbc	omrbc	omrbc		
Roche's Point ...	1009.9	49	S	5	T	1014.1	+7	45	+2	W	3	w	bc	4	17	52	43	r.or	r.or	r.or	r.or	r.or	r.or	r.or	r.or		
Birr Castle ...	1009.1	46	S	2	r	1011.3	*	41	+3	S	1	-	b	*	7	46	37	c	c	c	c	c	c	c	c		
Donaghadee ...	1012.2	43	SW	1	bcm	1010.5	+3	45	+6	-	0	-	omr	1	17	48	38	bcm	bcm	bc	bc	bc	bc	bc	bc		
Liverpool (Bidston)	1016.7	43	S	3	b	1012.0	+2	42	0	SE	3	-	or	3	2	48	42	bcp	bcpc	bcpc	bcpc	bcpc	bcpc	bcpc	bcpc		
Holyhead ...	1013.2	47	SSW	4	op	1010.8	+3	45	-1	S	2	-	or	2	12	51	44	bcc	bcc	bcpcq	bcpcq</td						

Information for these columns not usually received

- The barometric change is expressed in half millibars.

For code see page 3

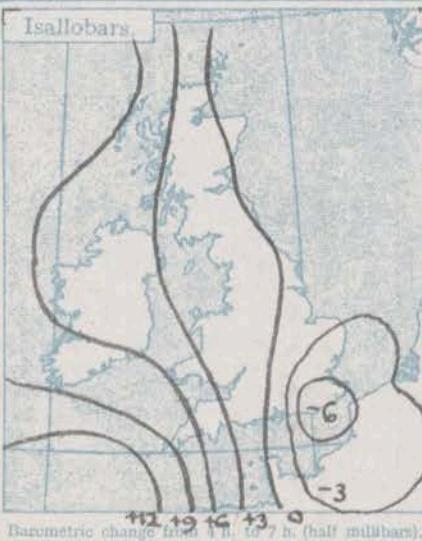
[†] See footnote p. 4.

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 2.12.20.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Rainy, misty.	Poor.	R. Rough
2. E. England	Dull, rainy.	Good	Moder.
3. E. Midlands	Rainy, misty.	Indif.	-
4. W. Midlands	Rainy.	Indif.	-
5. S.W. England	Fair to dull, some rain.	Good.	High.
6. South Wales	Fine.	V. Good	R. Rough
7. North Wales	Rainy.	Good.	Smooth
8. N.W. England	Rainy, some mist.	Poor	Slight
9. N. Midlands	Rainy, misty.	Poor	-
10. N.E. England	Dull, misty.	Indif.	Slight
11. E. Scotland	Dull, local rain.	Indif.	Slight
12. S.W. Scotland	Rainy.	Indif.	Slight
13. Isle of Man	Dull, rainy.	Indif.	Smooth
14. N. & N.W. Scotland	Rainy, squally.	Indif.	Rough
15. Hebrides	Fair to dull, showery, squally.	Fair.	R. Rough
16. Orkneys and Shetlands	Cloudy, squally.	Poor	R. Rough
17. N.W. Ireland	Fair.	Good.	Smooth
18. N.E. Ireland	Fair to dull, some rain.	Fair.	Slight.
19. S.E. Ireland	Fair to fine.	V. Good	Moder.
20. S.W. Ireland	Cloudy to fair.	V. Good	Moder.

Temperature reported from Coastal and Cross Channel Steamers.

Position-Number.	Date	Time G.M.T.	Sea ° F	Air ° F
8	1 st	0515	55	52
5	1 st	0930	53	44
6	1 st	1435	54	51
7	2 nd	0350	52	49



EXPLANATION
 BAROMETER.—Isobars are drawn at intervals of two millibars.
 WIND.—Direction is shown by flying with the wind. Force, on a scale 0-12, is indicated by the number of feathers. Mean velocity is shown per hour by figures in small circles.
 TEMPERATURE is given in degrees Celsius.
 WEATHER SYMBOLS—
 ☀ clear sky.
 ☁ sky is cloudy.
 ☁ overcast sky.
 ☃ snow.
 ☂ ice.
 ★ fog.
 ☤ thunder.
 SEA DISTURBANCE.—
 Rough—High seas.

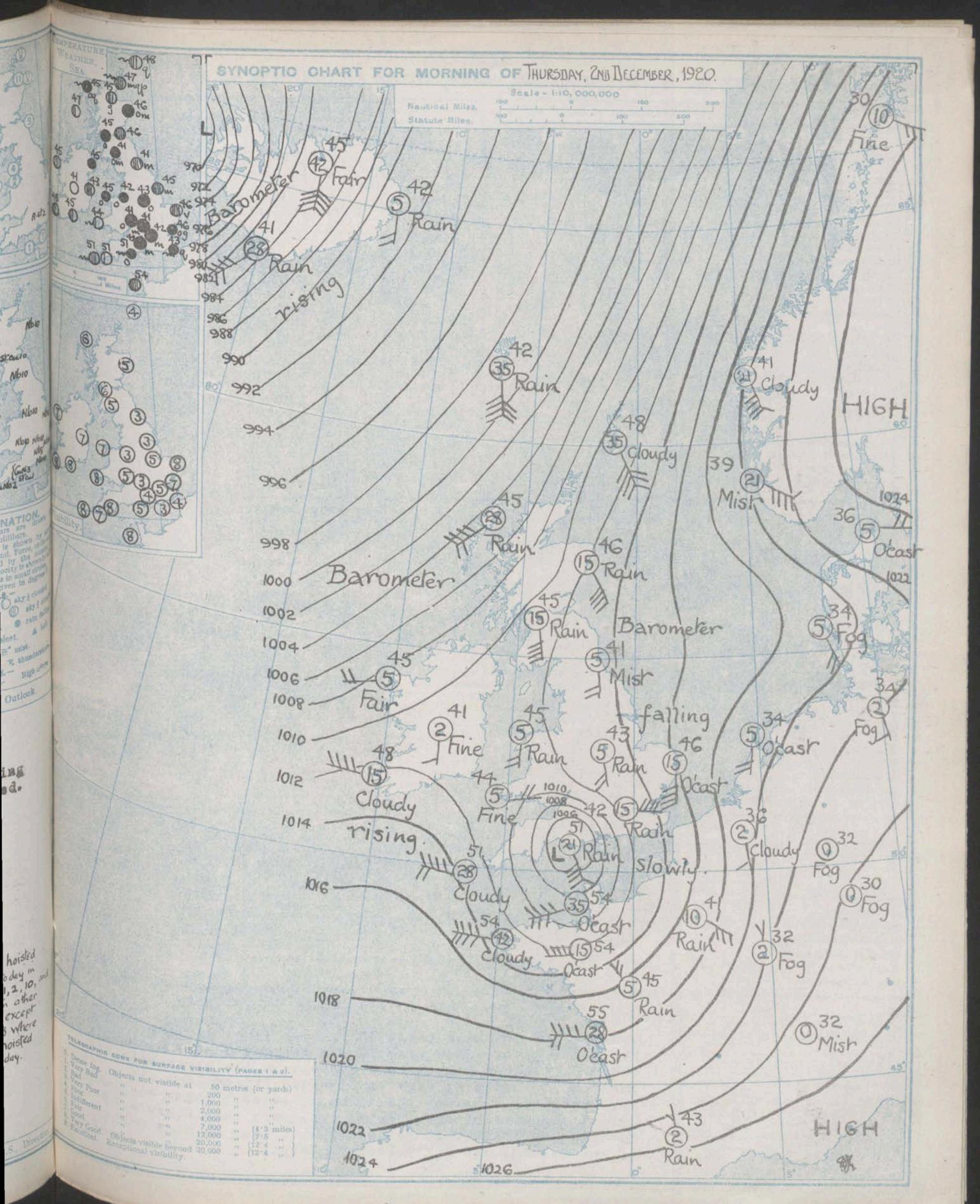
Further Outlook

GENERAL INFERENCE from observations received up to 9h. G.M.T.

The weather is likely to continue unsettled. A depression which is at present moving Eastward up the English Channel and causing rain over a large area will probably be followed by other disturbances arriving on our Western coasts from the Atlantic.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Thursday 2nd. December 1920.
1. S.E. England	Wind East to North-East or North, moderate or fresh.
2. E. England	Dull, rainy, then improving gradually. Visibility mainly indifferent to fair. Temperature rather low.
3. E. Midlands	
4. W. Midlands	
5. S.W. England	Wind NW backing to W or SW, moderate, changeable, some showers. Visibility fair. Temperature moderate or rather low.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	Wind between South and South-West or West, moderate or light. Variable cloud, some showers. Visibility fair. Moderate temperature.
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	
14. N. & N.W. Scotland	Wind S to SW, strong to moderate; much cloud, some rain. Visibility indifferent to fair. Moderate temperature.
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	Wind Westerly backing to SW or S, light to fresh; variable sky, some showers. Visibility fair. Moderate temperature.
19. S.E. Ireland	
20. S.W. Ireland	

South Cone hoisted at 0215 today in Districts 1, 2, 10, and still flying in other Districts except 7, 8 and 13 where North Cone hoisted at 0215 today.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. NO. 357

Thursday
2nd December

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 1 st Dec.																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. F.	Min. F.	Night 18h-19h	Day 9h-10h	Sunrise to Sunset	F			Forenoon.	Afternoon.	Max. F.	Min. F.	Night 17h-18h	Day 8h-17h	Rainfall.	Sunrise to Sunset
Scotland	Oban	oc	c b c	47	42	16	-	1.2		England, N.W.	Douglas (L.O.M.)	oc	c b c	49	41	3	-		3.2
	Banff	b	b	44	37	2	-	4.1			Blackpool	oc	c b c b	49	39	1	-		3.7
	Montrose	-	-	45	37	2	-	5.5			Southport	oc	c b b b b	48	39	3	-		2.5
	St. Andrews	-	-	46	37	2	-	2.9			Morecambe	-	-	48	39	3	-		
England, E. N.E.	Harrogate	c b c b	b b c b	46	36	2	-	0.9		Midlands	Buxton	-	-	-	-	-	-		
	Scarborough	b c	b c	49	38	3	-	0.9			Leamington Spa	-	-	-	-	-	-		
	Skegness	b c b	b	46	35	2	0.1	5.2			Malvern	oc	b o b	50	57	0.1	0.1		5.2
	Lowestoft	b	b m	61	40	5	-	6.3			Bath	oc	b b c	51	56	2	-		5.1
England, S.E.	Felixstowe	b c	b c b	50	36	3	-	3.5		Wales	Rhyl	bc	bc	48	39	3	-		4.0
	Southend-on-Sea	-	-	-	-	-	-	-			Colwyn Bay	-	-	50	40	5	-		2.0
	Tunbridge Wells	b b c	b c b	60	35	10	-	3.3			Llandudno	*	*	50	41	4	-		
	Margate	b	b b c c	52	40	2	-	3.7			Aberystwyth	oc	c o o	50	42	5	-		
England, S.E.	Ramsgate	-	*	50	35	3	1	4.6			Tenby	-	-	-	-	-	-		
	Folkestone	a o b e	b c o r o	51	38	4	3	3.4			Swansea	-	-	-	-	-	-		
	Hastings	b b c b	c o p b e	53	38	6	2	3.4			Weymouth	c b q c	b c o	54	45	2	-		3.3
	Eastbourne	b e s p e	b c p b c	53	40	5	1	3.5			Teignmouth	-	-	-	-	-	-		
England, S.E.	Brighton	b c e p	b c	52	38	6	1	2.7			Torquay	b	b b c c o	54	41	4	-		3.8
	Worthing	b c t	b c e	50	36	11	1	3.0			Paignton	b b c	b c p q j	64	36	2	-		3.5
	Littlehampton	b e p	q b c	50	37	3	1	3.0			Penzance	b c	c o	53	43	3	-		2.2
	Portsmouth (S'heads)	-	-	53	40	2	-	3.8			Newquay	b	o	51	42	4	-		2.8
England, S.E.	Bournemouth	*	*	52	43	6	0.4	3.6			Bude	b c	e	52	43	3	-		3.5
	Ventnor (I. of W.)	*	*	53	43	3	2	3.0			Ilfracombe	c	c	50	44	6	-		4.0
	-	-	-	-	-	-	-	-			Weston-s-Mare	b	b b c	52	42	2	-		
	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-		

SUMMARIES FOR PAST 24 HOURS.

STATIONS.		WEATHER.				Max. Temp. F.	Min. Temp. F.	Min. on Grass F.	RAINFALL.		Sun. Hours.
		7h-13h	13h-18h	18h-19h	1h-7h				Day 7h-13h	Night 18h-7h	
Renfrew	b b c f b c f	b b c f	b b c f	0 f f	0 f f	46	35	30	mm	mm	3.6
Eskdalemuir	b b a b a b c	b b b c c	b b b c c	c c o	c c o	44	33	30	-	2	4.2
Valencia (Cahircay)	c o	p d. p h.	- f c.	c o b o c	c o b o c	51	45	40	4	14	0.0
Baldonnel	g a o c	g d d	o f f r	o f f r	o f f r	49	38	40	1	7	3.7
Didsbury	b c c p b c b	b b c f	b c c f o f	b c c f o f	o f f R R	49	37	36	0.2	3	*
Ross on Wye	b a b c o	b a b c o	b a b c o	b c o q a r q	b c o q a r q	49	41	40	-	14	4.2
Falmouth	b b c o	-	-	o r	b b c	54	43	52	trace	18	2.3
Calshot (Hants)	b b a g c f	c o f	c o f	r r / r r f	r r / r r f	52	44	46	0.1	6	4.0
Lympne (Folkestone)	b b o f o o	b b o f o o	b b o f o o	o f r o x	o f r o x	49	36	36	2	3	3.9
Aberdeen	1.7 f	2 f 2 f	2 f 2 f	2 f c f	2 f c f	48	37	32	-	0.2	4.2
Howden	4.7.3 f	b b c 2 f	b b c 2 f	b b c o f	b b c o f	48	34	28	-	-	3.1
Cranwell (Lincs)	b . b c	b b c b b c	b w o z f	o f f	o f f	46	33	30	-	1	5.1
Felixstowe	b . b c	b b c 2 f	b o . o z f	o r .	o r .	49	39	*	-	0.2	6.2
Shoeburyness	b c . c	p d . b b c	b b c b c	q f c .	q f c .	51	36	*	trace	2	4.5
Benson	b b c	b	b b c f	b c f f	b c f f	50	35	29	-	8	*
S. Farnborough	b b c . c	2 f w	b w o z f	o z f r r	o z f r r	49	38	30	trace	4	5.0
London (Kew Observatory)	w z f p a c	2 f w	b b c o f	b c f f	b c f f	49	37	*	trace	5	*
Croydon	b b c o f	b b c o f	b b c o f	b c f f	b c f f	49	37	*	-	-	

LONDON OBSERVATIONS

Morning	WEATHER.	Max. Temp. F.	Min. Temp. F.	Min. on Grass F.	Rain-fall. mm.	Sunshine to Sunset. Hours.	HUMIDITY %		YESTERDAY.	TO-DAY.
							15 h. G.M.T.	9 h. G.M.T.		
24 HOURS ENDED 9 th G.M.T. 21 st										
b	b b c	51	35	31	4	5.7	76	92	Vertical Component of Solar Radiation per Square Centimetre during yesterday.	
*	*	*	*	*	*	0.5	*	*	Total 248 Joules.	
*	*	51	40	33	4	2.9	67	86	Milliwatts.	
*	*	*	*	*	*	3.7	*	*	Average Rate. 84	
*	*	51	37	31	4	*	85 (18h)	92	Maximum Rate. 22	
*	*	48	33	30	5	6.5	*	93		

NOTES ON THE WEATHER OF YESTERDAY.

Temperature remained below 50° over a large portion of the Kingdom, but exceeded that figure at many Southern and Western stations. Rain fell, except in the North-East and East of Great Britain; 24mm at Blackseed Point, 19mm at Pentland Bill and more than 10mm at several other stations. Bright sunshine records varied from more than 6 hours at Clacton and Felixstowe to less than 1 hour on some parts of our Western and North-Western coasts.

Photographic Record of Pole Star (Polaris) and of 8 Ursae Minoris at Greenwich Observatory.

Exposure from 1st 7 h. 0 m. to 2nd 6 h. 30 m.

Stars.	Duration of Exposure.	Duration of Record.
Pole	13 30	14 19
8 Ursae Minoris	13 30	2 48

* Information for these columns not usually received.

† Trace = rain has fallen but amount less than 0.1 mm.

Surface



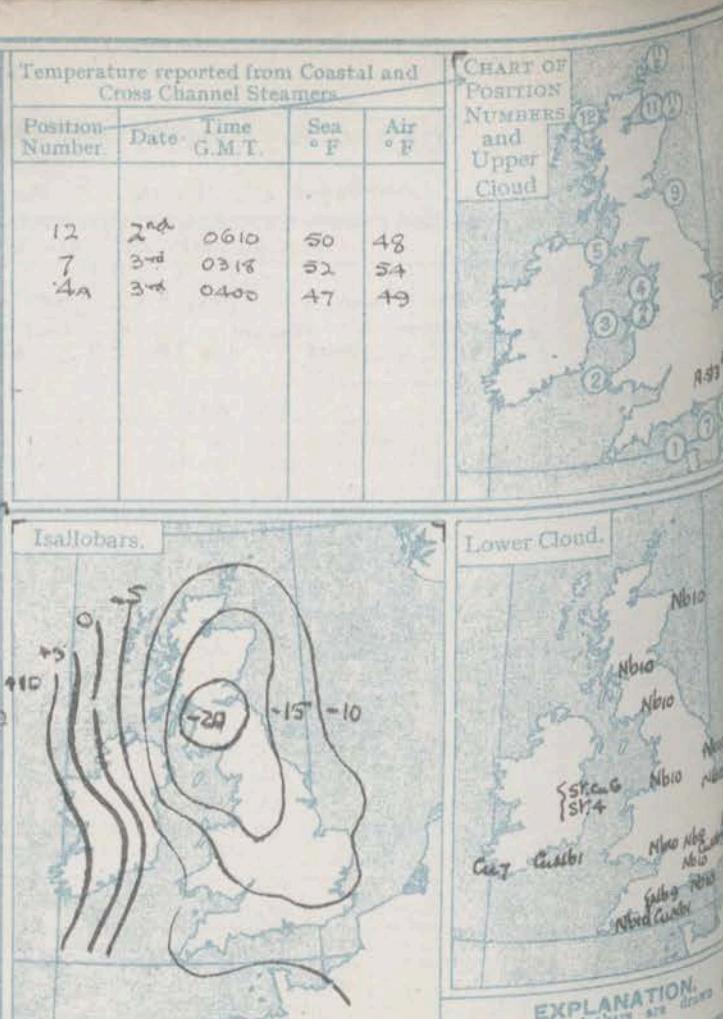
AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:
BRITISH SECTION. No. B21561 Friday, 3rd DECEMBER 1920.

STATIONS.	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																												
	BAROM. at M.S.L. mb.	↓ Change in 2 hours.	WIND. Dir. Force 0-12.	TEMP. °F.	Humid. %	Visibil. 0-9.	Height of Low Cloud. Feet.	Low Cloud.			Upper Cloud.			BAROM. at M.S.L. mb.	↓ Change in 2 hours.	WIND. Dir. Force 0-12.	TEMP. °F.	Humid. %	Visibil. 0-9.	Height of Low Cloud. Feet.	Low Cloud.			Upper Cloud.			Sea 0-9.		
								Form.	Amt. 0-10.	Form.	Amt. 0-10.	Form.	Amt. 0-10.																
18H. G.M.T. OF 2nd																													
Renfrew ...	10146	+3	SSW	3	02f	45	85	4	2000	Sr.Cu	4	ASh	6	+	10177-9	-3	Sr	5	3	6	41	92	2	3,000	Sr	3	-	-	*
Eskdalemuir ...	10160	+3	NW	3	05.2f	42	97	5	700	Nb	10	-	-	+	10183	-5	Sr	1	05f	40	97	3	-	Sr	10	-	-	*	
Valencia (Cahircra)	10176	0	SSW	1	0	46	75	8	3000	Sr.Cu	4	ASh	6	4	10113	-12	Sr	6	0	48	98	8	4,000	Sr	7	ASh	3	4	
Baldonnel ...	10179	+4	SW	3	0	45	95	8	-	-	-	ASh	10	+	10181	-1	Sr	2	0	43	95	5	3,000	Sr	10	-	-	*	
Manchester (Alex.R.)	10178	+4	SSE	3	02f	44	93	4	13,50	Sr.	10	-	-	+	10203	-12	Sr	3	0.2f	44	95	4	750	Sr	10	-	-	*	
Ross on Wye ...	10179	+5	NNW	1	Cv	46	95	9	3000	Sr.Cu	6	Cu.Cu	1	+	10219	-5	-	0	0ff	43	93	6	2,000	Sr	4	ASh	6	*	
Falmouth ...	10200	+5	NW	4	0	53	75	8	-	-	-	ACu	7	+	10226	-1	-	0	0	49	75	7	-	Sr	9	-	*		
Calshot (Hants) ...	10178	+10	N	3	0	47	92	8	12,50	Sr.	10	-	-	2	10234	-16	-	0	0.4f	45	97	7	3,000	Sr	10	-	-	/	
Lympne (Folkestone)	10166	+2	SE	4	od.m	47	97	5	4,500	Nb	10	-	-	+	10237	-9	-	0	0m	39	97	5	750	Sr	10	-	*		
Aberdeen ...	10145	+2	SSW	3	02f	46	85	6	12,50	Sr.	10	-	-	3	10168	-13	Sr	1	SSfc	42	92	4	-	-	-	-	-	3	
Howden ...	10185	+3	S	2	02f	43	97	5	3000	Sr.	7	ASh	2	+	10209	-14	S	2	0	40	97	4	2,000	Sr	8	-	*		
Cranwell (Lines) ...	10192	+3	SSE	3	01f	43	92	6	2,500	Sr.Cu	2	9	-	+	10227	-14	S	2	0	41	97	6	2,000	Sr	10	-	*		
Felixstowe	10188	+2	SSE	4	od.	44	85	7	750	Nb	10	-	-	+	10238	-16	S	3	fc	44	85	7	1,250	S	5	-	*		
Shoeburyness ...	10175	+4	SE	3	od.	43	95	6	12,50	Cu.N	5	ASh	4	5	10233	-17	-	0	0	40	98	6	2,000	Sr	6	ASh	4		
Benson ...	10181	+7	ENE	1	02f	43	95	4	-	Sr	10	-	-	+	10228	-16	WWN	1	0.1f	41	97	5	4,000	Ns	10	-	*		
S. Farnborough	10174	+9	NNW	2	02f	43	92	4	15,50	Nb	10	-	-	+	10230	-16	WWN	1	0.3f	43	92	5	1,250	Sr	10	-	*		
London (Kew Obay.)	10181	+7	ENE	2	od.	43	92	3	12,50	NB	10	-	-	+	10234	-16	WWN	1	0.3f	42	97	3	750	Sr	10	-	*		
Croydon ...	10185	+7	NNW	2	od.f	42	97	4	750	Sr	10	-	-	+	10237	-14	WWN	2	0.3f	42	97	3	750	Sr	10	-	*		
1H. G.M.T. OF 3rd																													
Renfrew ...	10130	-8	SSE	4	od.m	41	97	4	-	Nb	10	-	-	+	9902	-22	NS	4	0f.2f	42	95	4	12,50	Nb	10	-	*		
Eskdalemuir ...	10011	-9	NNW	8	01f	52	* * *	*	2,000	Sr.	10	-	-	7	10123	+13	NNW	6	0R.2f	49	97	3	12,50	Nb	7	-	*		
Valencia (Cahircra)	10036	-17	SC	6	01f	54	92	4	2,000	Sr.	10	-	-	+	9939	+8	NNW	7	0.2	45	95	7	2,000	Sr	10	-	*		
Baldonnel ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Manchester (Alex.R.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth ...	10176	-4	SW	6	09	86	92	7	-	Sr.	10	-	-	+	10015	-15	S	6	0.2f.m	53	92	4	750	Nb	10	-	*		
Calshot (Hants)...	10211	-6	SSW	5	01f	50	97	7	3,000	Sr.	10	-	-	4	10113	-6	NNW	8	0.2f	55	92	6	1,250	Nb	10	-	*		
Lympne(Folkestone)	10231	0	S	3	01f	44	92	5	12,50	Sr.	10	-	-	+	10153	-9	NNW	7	0m9	52	97	4	1,250	Nb	10	-	*		
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden ...	10182	-5	SSB	4	02fe	39	97	3	2,000	Sr.	10	-	-	+	10030	-8	S	6	01f	46	97	6	2,000	Nb	10	-	*		
Cranwell (Lines) ...	10207	-3	SSE	4	02f	40	92	5	3,000	Sr.	10	-	-	+	10072	-14	SSE	5	od	47	97	5	750	Nb	10	-	*		
Felixstowe	10256	-2	S	4	01f	45	95	6	3,000	Sr.	10	-	-	3	10145	-12	S	6	0A	49	97	6	2,000	Nb	10	-	*		
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London(M.O. at 1m.)	10217	-4	SSN	4	01f	42	97	5	12,50	St.	10	-	-	+	10136	-6	SN	6	0d.9	54	92	5	1,500	Cu.N	7	ASh	3		
Croydon ...	10222	-5	SSN	4	01f	42	97	5	12,50	St.	10	-	-	+	10137	-5	od.9	54	92	5	1,500	Sr	10	-	*				
STATIONS CONTRIBUTING REPORTS AT 7H. AND 13H.																													
STATIONS.	BAROM. at M.S.L. mb.	TEMP. °F.	WIND. Dir. Force 0-12.	WEATHER.	BAROMETER. at M.S.L. mb.	↓ Change in 3 hours.	TEMP. °F.	Change in 3 hours.	WIND. Dir. Force 0-12.	WEATHER.	Dir. of Upper Cloud.	Sea	Rainfall mm.	WEATHER.	Max. Temp. F.	Min. Temp. F.	Morning	Afternoon	Night.	Sunshine Hours.									
Lerwick	10125	48	SW	3	Sc																								

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 3.12.1920.

Districts.	Weather, Cloud and Precipitation	Visibility.	Sea.	Temperature reported from Coastal and Cross Channel Steamers				
				Position-Number	Date	Time G.M.T.	Sea °F	Air °F
1. S.E. England	Dull, slight rain & mist.	Indiff.	Mod.	12	2 nd	0610	50	48
2. E. England	Dull, slight rain.	Good	"	7	3 rd	0318	52	54
3. E. Midlands	Dull, slight rain.	Fair	-	4A	3 rd	0400	47	49
4. W. Midlands	Dull, squally, slight rain.	"	-					
5. S.W. England	Dull, squally, some rain.	"	Rough					
6. South Wales	Dull, squally, slight rain.	Good	"					
7. North Wales	Dull, squally, showery.	Fair	"					
8. N.W. England	Dull, squally, some rain.	Poor	R. Rough					
9. N. Midlands	Dull, some rain.	"	-					
10. N.E. England	Dull, misty, slight rain.	Indiff.	Mod.					
11. E. Scotland	Dull, squally, some rain.	"	"					
12. S.W. Scotland	Dull, mist, rainy.	Poor	"					
13. Isle of Man	Dull, squally, rainy.	Fair	R. Rough					
14. N. & N.W. Scotland	Rainy, squally.	Indiff.	Mod.					
15. Hebrides	Dull, rainy.	"	"					
16. Orkneys and Shetlands	Rainy, squally.	Poor	Slight					
17. N.W. Ireland	Rainy, squally.	Indiff.	High					
18. N.E. Ireland	Rainy, squally.	"	Mod.					
19. S.E. Ireland	Fine to dull.	Good	"					
20. S.W. Ireland	Cloudy.	"	"					



GENERAL INFERENCE from observations received up to 9h.

A deep depression having its centre over the South-West of Scotland covers the whole of the United Kingdom. It will probably move in a North-East direction and be followed by winds from between West and North-West, with a variable sky, and squally, showery weather. Temperature will fall over England.

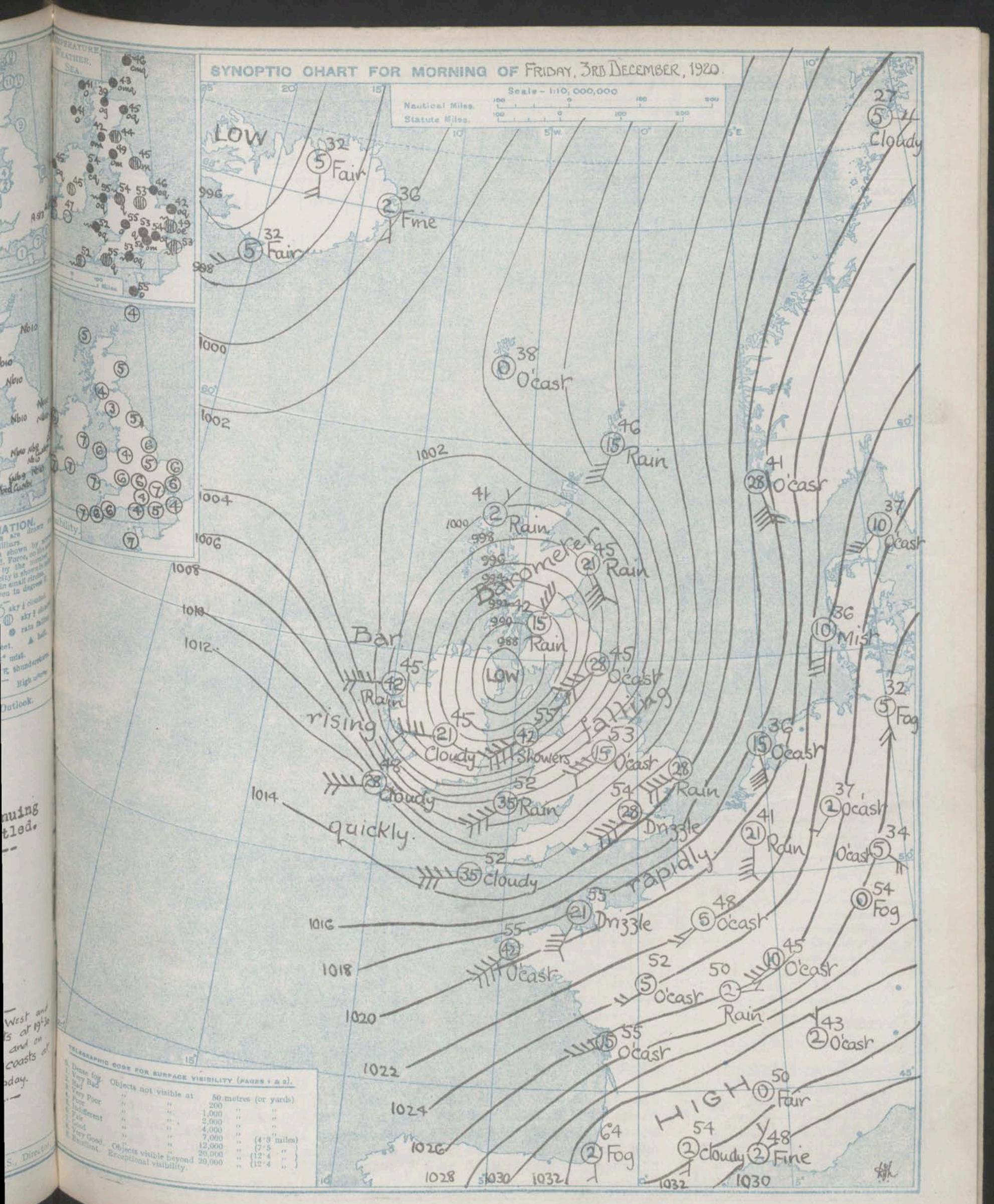
EXPLANATION.
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees Fahrenheit.
WEATHER SYMBOLS—
○ clear sky.
○ sky + cloudy.
○ overcast sky.
× snow.
○ sleet.
≡ fog.
T thunder.
R thunderstorms.
SEA DISTURBANCE.—
Rough.

Further Outlook.

Continuing
unsettled.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Friday, 3rd December, 1920.
1. S.E. England	
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	Wind mainly between West and North-West, strong or a gale, then moderating; squally, variable sky, some showers, hail locally, perhaps thunder, visibility fair to good; colder.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	Wind variable in direction and force, then North-West or West, strong to moderate; squally, cloudy or variable sky, some showers, hail locally; moderate temperature.
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	Wind North-Westerly, strong or a gale, then backing and moderating; squally, showers, hail or rain, fair intervals, visibility fair or good; colder, then milder.
19. S.E. Ireland	
20. S.W. Ireland	

South Cone—
hosted on West and
S.W. coasts at 19¹²
yesterday and on
all other coasts at
02¹⁵ today.



AIR MINISTRY.
DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 338.

Friday
3rd December

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 2 nd																				
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 10h-9h.	Day 9h-10h.	Sunrise to Sunset.	2 nd			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 10h-9h.	Day 9h-10h.	Sunrise to Sunset.	2 nd	
Scotland	Oban	b6	c	49	42	16	-	10	10	England, N.W.	Douglas (L.O.M.)	0.0	0	46	41	5	-	0.0	0.0	
	Banff	0.0 b6	b6 6	46	37	-	-	18	18		Blackpool	0	0	45	41	4	-	0.0	0.0	
	Montrose	...	...	...	...	...	...	...	...		Southport	0	0	45	41	4	-	0.0	0.0
	St. Andrews	...	...	...	...	...	...	...	...		Morecambe	+	+	47	42	4	-	0.0	0.0
England, N.E.	Harrogate	ad	o	42	36	1	0.1	0.0	0.0	Midlands	Buxton	...	...	...	...	...	...	...	0.0
	Scarborough	36	36	46	38	-	-	0.5	0.5		Leamington Spa	0	0	43	37	3	0.1	0.0	0.0	
	Skegness	ad	o	45	40	-	-	0.0	0.0		Malvern	0	0	45	40	7	0.3	0.0	0.0	
England, E.	Lowestoft	...	...	...	...	...	...	...	...		Bath	0	0.0 b6	46	42	11	0.3	0.0	0.0
	Felixstowe	0.0 n	0.0 m	+5	43	2	2	0.0	0.0		Rhyl	...	bbc	49	41	4	-	0.0	0.0	
	Southend-on-Sea	0.0 p o	0.0 b6	43	38	3	-	0.4	0.4		Colwyn Bay	...	-	50	40	5	-	0.0	0.0	
England, S.E.	Tunbridge Wells	0.0	o	43	39	7	0.3	0.0	0.0	Wales	Llandudno	...	...	...	...	...	...	...	0.0
	Margate	0.0	o	45	40	4	2	0.0	0.0		Aberystwyth	...	...	...	...	...	...	...	0.0
	Ramsgate	*	*	48	40	6	1	0.0	0.0		Tenby	...	...	...	...	...	...	...	0.0
	Folkestone	Y	TO	44	39	3	2	0.0	0.0		Swansea	...	...	...	...	...	...	...	0.0
	Hastings	0.0. o	0.0. o	50	42	8	2	0.0	0.0		Weymouth	...	g, r, 36	86.0m	56	45	17	-	0.0	0.0
	Eastbourne	7.0	o. c. o	47	43	6	1	0.2	0.2		Teignmouth	...	...	...	...	...	...	...	0.0
	Brighton	0.0. o	o	47	39	5	1	0.5	0.5		Torquay	...	bbc	54	47	6	-	0.0	0.0	
	Worthing	...	c. 36	47	44	6	-	1.0	1.0		Paignton	...	g, 36. 36	55	35	26	-	0.0	0.0	
	Littlehampton	...	0.0. o. o	47	42	6	0.4	0.4	0.4		Penzance	...	c. 36	54	47	14	-	0.0	0.0	
	Portsmouth (S'thess)	4	4	47	44	9	-	0.0	0.0		Newquay	...	c	53	45	10	-	0.0	0.0	
	Bournemouth	*	*	48	44	12	-	1.5	1.5		Bude	...	o. c. 36	57	45	11	-	0.0	0.0	
	Ventnor (I. of W.)	*	*	53	43	9	Trace	0.0	0.0		Iffracombe	...	o. 36	56	48	14	-	0.0	0.0	
	Weston-s-Mare	...	...	...	...	...	...	...	...		Wales, S.W.	...	...	...	...	...	...	...	0.0

STATIONS.		SUMMARIES FOR PAST 24 HOURS.												BEAUFORT NOTATION.		THE BEAUFORT SCALE OF WIND FORCE.	
		WEATHER.				TEMPERATURE.				RAINFALL.		SUN.					
7h-10h.	10h-13h.	13h-16h.	16h-19h.	1h-2h.	2h-5h.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Day 7h-10h.	Night 10h-13h.	Hours.	mm.	in.	mm.	in.	No.	Limits of Velocity at about 30 feet above ground.
Renfrew	0.0 rcc	bcc/bcc	Y, r, 2f	0.0 r	48	38	30	12	1.2	...	...	...	...	...	...	0	Less than 1
Eskdalemuir	0.0 rcc	0.0, 0.0	0.0, pd, rr	rr, RR	49	36	34	26	9	0.0	...	...	...	...	...	1	1-3
Valencia (Cahirciveen)	heccc	o	rr	rr, p	57	45	44	1	9	0.0	...	...	...	...	...	2	4-7
Baldonnel	beccc	o, 2f	rr, q	rr, 2f	56	39	39	0.1	1	1.5	...	...	...	...	...	3	8-12
Manchester (Alder Rd)	0.0 r, 0.0 g	cc, cc, 0.0	0.0, 2f	0.0, R, G, Q	53	43	39	1	2	8	...	...	...	...	...	4	12-18
Ross on Wye	dd, 0.0 c	0.0, 0.0	0.0, q, pd	0.0, q, pd	55	41	41	0.4	3	0.5	...	...	...	...	...	5	18-24
Falmouth	...	becc, becc	o, o, o	rr, 0	56	48	48	-	3	2.1	...	...	...	...	...	6	24-30
Calshot (Hants)	...	o, o, f	o, ff	o, ff, r, f	55	45	40	1	1	0.0	...	...	...	...	...	7	32-38
Lympne (Folkestone)	...	o, ff, dd, dd	o, pd, co	o, pd, q, f	52	38	32	5	0.3	0.0	...	...	...	...	...	8	38-44
Aberdeen	...	o, 2f	o, 2f, 2f	co, r, r	47	38	29	3	9	0.1	...	...	...	...	...	9	44-50
Howden	...	o, pd	o, o, 2f	o, 2f, rr	47	39	36	0.3	6	0.1	...	...	...	...	...	10	50-56
Cranwell (Lincolns)	...	pd, o, f	o, o, o	o, o, f	47	37	35	1	2	0.0	...	...	...	...	...	11	56-62
Felixstowe	...	dd, o, f	pd, o, o	o, o, f	46	41	41	2	0.3	0.0	...	...	...	...	...	12	62-68
Shoebury Ness	...	q, dd	pd, o, o	o, 2f	53	37	2	1	0.6	...	...	...	...	...	...	13	68-74
Benson	...	6, 0, 2f	o	o, rr	54	40	35	0.4	1	0.0	...	...	...	...	...	14	74-80
S. Farnborough	...	red, dd, dd	o, 2f, o, ff	o, 2f, becc, r	54	41	37	1	1	0.0	...	...	...	...	...	15	80-86
London (Kew Observatory)	...	dd, o, 2f	o, pd, q, w	o, pd, q	54	41	36	1	0.1	0.0	...	...	...	...	...	16	86-92
Croydon	...	o, 2f, rcc	o, pd, q, am	o, 2f, q, pd	54	40	36	2	1	0.0	...	...	...	...	...	17	92-98

LONDON OBSERVATIONS.		WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rain-fall.	Sunrise to Sunset Hours.	Humidity % 15 h. G.M.T. 0 h. G.M.T.	SOUTH KENSINGTON (Meteorological Office).		TABLE SHOWING THE GREENWICH TIME OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.	
		Morning.	Afternoon.										
		24 HOURS ENDED AT G.M.T. 2 nd				YESTERDAY.							
Greenwich (Royal Observatory)	0.0	0.0	Y, o	54	40	37	1	0.0	90	92	...	...	3rd Dec. 1920
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*	...	...	1920
Westminster (St. James's Park)	*	*	Y	56	41	37	1	0.0	84	89	...	...	1920
Regents Pk. (Botanical Garden)	*	*	R	*	*	*	*	0.0	*	*	...	...	1920
Camden Sq. (British Rainfall)	0.0	0	*	55	41	38	2	*	85	95	...	...	1920
Kensington Palace	0.0	0	*	55	39	36	2	*	91 (18h)	94	...	...	1920
Hampstead Observatory	*	*	*	53	39	35	2	0.0	*	96	...	...	1



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B. 21562

SATURDAY... 4th DECEMBER 1920.

STATIONS	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H., 7H., 13H. AND 18H.																																											
	BAROM. at M.S.L. mb.	WIND.			TEMP. °F.	Humidity %	Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud.		Upper Cloud.		Sea	BAROM. at M.S.L. mb.	WIND.			TEMP. °F.	Humidity %	Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud.		Upper Cloud.		Sea																		
		Change in 8 hours.	Dir.	Force 0-12.					Form.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.		Dir.	Force 0-12.	Form.	Amt. 0-10.				Form.	Amt. 0-10.	Form.	Amt. 0-10.																			
13H. G.M.T. 3 rd																		18H. G.M.T. OF 4 th																										
1H. G.M.T. OF 4 th																		7H. G.M.T. OF 4 th																										
STATIONS CONTRIBUTING REPORTS AT 7H. AND 13H.																		24 HOURS ENDED 7H. 4 th																										
STATIONS.	BAROM. at M.S.L. mb.	TEMP. °F.	WIND.	Weather.	BAROMETR.	TEMPERATURE.	WIND.	Dir. of Upper Cloud.	Weather.	Sea	Rainfall mm.	TEMP. Max. °F.	Min. °F.	Morning.	Afternoon.	Night.	Sunshine Hours.																											
18H. G.M.T. of 3 rd																		7H. G.M.T. of 4 th																										
Lerwick	1000.4	43	E	6	over	1018.9	+10	44	-2	N	5	-	over	4	12	46	42	over	over	over	over	over	over	over	over	over	over	over	over															
Stornoway	1008.1	42	NW	5	over	1026.5	+5	43	+2	NW	4	-	b	3	6	45	40	over	over	over	over	over	over	over	over	over	over	over	over	over														
Castlebay (Barra)	1012.1	44	NW	5	ob	1029.7	+5	47	+6	NW	4	-	b	4	3	47	39	over	over	over	over	over	over	over	over	over	over	over	over	over														
Malin Head	1016.9	47	NW	5	over	1026.2	+3	46	+4	NW	5	-	b	5	18	50	40	over	over	over	over	over	over	over	over	over	over	over	over	over														
Black sod Point	1020.3	45	NW	1	over	1030.6	+5	49	+4	NW	4	-	b	4	2	50	43	over	over	over	over	over	over	over	over	over	over	over	over	over														
Roche's Point						1030.3	+3	49	+2	NWW	4	-	b	4	2	49	47																											
Birr Castle																																												
Donaghadee	1019.7	45	W	4	c	1029.8	*	43	0	W	2	-	c	*	0.1	46	43	over	over	over	over	over	over	over	over	over	over	over	over	over	over													
Liverpool (Bidston)	1011.6	44	NW	5	3	1024.6	+8	47	-7	N	6	-	bq	6	7	54	40	over	over	over	over	over	over	over	over	over	over	over	over	over	over													
Holyhead	1008.1	46	W	8	over	1017.9	+4	46	-8	W	8	-	bq	7	1	55	43	over	over	over	over	over	over	over	over	over	over	over	over	over	over													
Pembroke (Anne's Head)	1013.2	48	NWW	9	cq	1021.9	+4	48	-7	NWW	9	-	bq	8	0.2	55	45	over	over	over	over	over	over	over	over	over	over	over	over	over	over													
Scilly (St. Mary's)	1020.6	48	NW	7	cq	1025.8	+2	48	-4	NW	6	-	cq	7	1	53	46	over	over	over	over	over	over	over	over	over	over	over	over	over	over													
Jersey (St. Aubin)	1026.6	48	NW	7	o	1028.0	0	51	-1	NW	7	NW	c	7	3	52	48	over	over	over	over	over	over	over	over	over	over	over	over	over	over													
Portland Bill	1021.0	50	N	6	b	1021.9	0	49	-6	NW	5	-	bc	4	6	57	45	over	over	over	over	over	over	over	over	over	over	over	over	over	over													
Dungeness	1017.0	51	NWW	1	bq	1019.1	0	50	-3	NW	8	-	bq	8	2	54	47	over	over	over	over	over	over	over	over	over	over	over	over	over	over													
Wick	1011.7	46	NWW	5	3	1011.6	-1	44	-9	W	6	-	o	5	-	54	42	over	over	over	over	over	over	over	over	over	over	over	over	over	over	over												
Nairn	1015.8	43	NWW	1	over	1020.5	+11	44	+1	NW	8	-	bq	6	18	45	42	over	over	over	over	over	over	over	over	over	over	over	over	over	over													
Leith	1001.8	44	NWW	Y	o	1023.1	*	43	+4	NW	5	-	bq	4	6	44	37	bq	bq	bq	bq	bq	bq	bq	bq	bq	bq	bq	bq	bq														
Tynemouth	998.9	44	NWW	6	19	1013.2	+8	45	0	NW	9	-	rhq	8	5	52	42	bomgb	over	over	over	over	over	over	over	over	over	over	over	over	over	over	over											
Spura Head	997.5	46	W	9	6b	1006.2	+5	46	0	NW	9	-	oqf	7	0.3	49	40	bq	over	over	over	over	over	over	over	over	over	over	over	over	over	over	over											
Yarmouth (Isle of)	1004.3	47	W	6	6	1004.4	-1	42	0	NW	6	-	oqr	3	3	55	41	over	over	over	over	over	over	over	over	over	over	over	over	over	over	over												
Clacton-on-Sea	1008.4	47	W	6	6	1009.1	-1	43	-6	NWW	6	-	ogqr	4	2	54	42	over	over	over	over	over	over	over	over	over	over	over	over	over	over	over												
Nottingham	1004.0	43	W	Y	o	1013.8	*	46	-7	NW	6	NW	o	5	57	40	op.c	over	over	over	over	over	over	over	over	over	over	over	over	over	over	over	over											

* Information for these columns not usually received.

* The barometric change is expressed in half millibars.

† See code see page 3

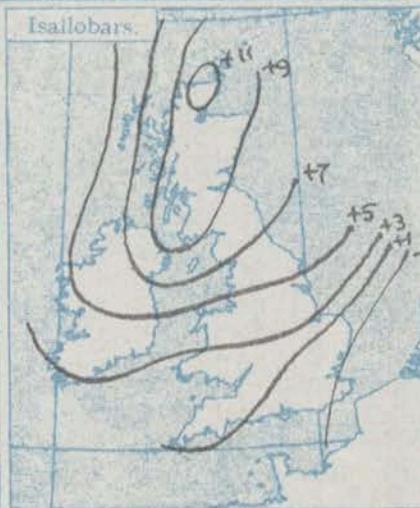
‡ See footnote p. 3

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 4.10.1920.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, squally, slight rain.	Good	R. Rough
2. E. England	Dull, squally, slight rain.	"	Mod.
3. E. Midlands	Dull.	"	-
4. W. Midlands	Dull, squally.	V. Good	-
5. S.W. England	Fair, squally.	"	Rough
6. South Wales	Cloudy, squally.	"	High
7. North Wales	Fine, squally.	"	"
8. N.W. England	Fair, squally.	Good	Rough
9. N. Midlands	Cloudy, squally.	"	-
10. N.E. England	Dull, squally, showery.	Fair	High.
11. E. Scotland	Dull, squally, slight rain.	"	"
12. S.W. Scotland	Fine, squally.	Good	Mod.
13. Isle of Man	Fine, squally..	"	Rough
14. N. & N.W. Scotland	Fair, squally.	"	R. Rough
15. Hebrides	Fine.	"	Mod.
16. Orkneys and Shetlands	Squally, slight rain.	Indiff.	R. Rough
17. N.W. Ireland	Fair.	Good	Mod.
18. N.E. Ireland	Fine, squally.	"	"
19. S.E. Ireland	Fair to cloudy.	"	"
20. S.W. Ireland	Fair to dull.	"	"

Temperature reported from Coastal and
Cross Channel Steamers.

Position- Number	Date	Time G.M.T.	Sea ° F	Air ° F
1	3- rd	1225	54	51
5	3- rd	0823	53	50
6	3- rd	1510	53	49
7	4 th	0440	49	48



Barometric change from 4 h. to 7 h. (half millibars)

GENERAL INFERENCE from observations received up to 9b.

The deep depression over the Southern part of the North Sea will continue to affect the winds and weather over these Islands for the present, but the gales still prevalent will subside gradually, and the weather improve temporarily.

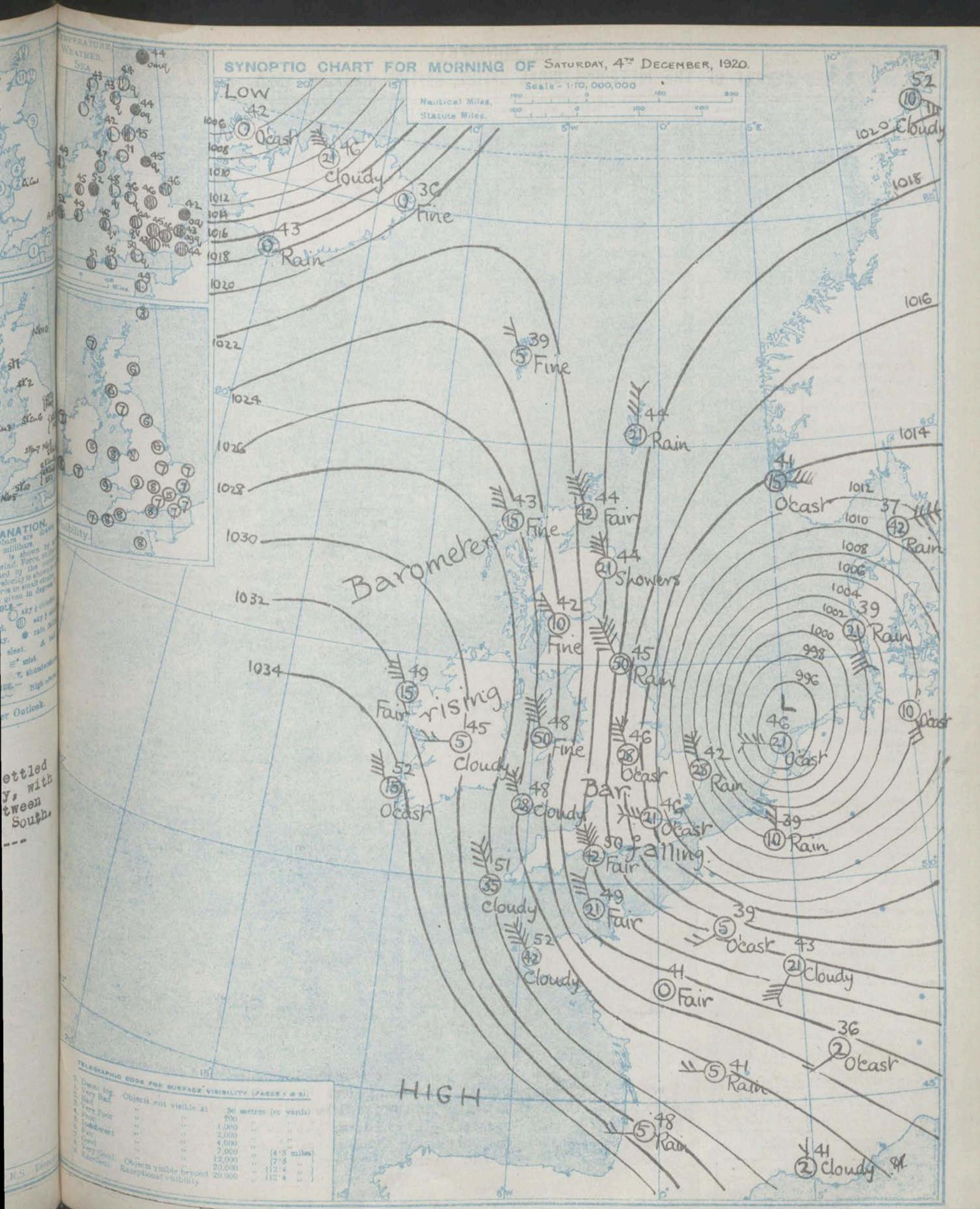


EXPLANATION.	
BAROMETER.—	barometric air pressure.
Intervals of two millibars.	
WIND.—Direction is shown by the wind.	Force of wind is indicated by the number.
0-12.	Mean velocity is shown per hour by figures in small circles.
TEMPERATURE	is given in degrees.
WEATHER SYMBOLS—	
clear sky.	
○ sky is cloudy.	○ sky is cloudy.
● overcast sky.	● rate and
* snow.	● rate and
○ fog.	= mist.
T thunder.	✓ thunder.
SEA STATE INDICATOR—	High seas.
Rough.	
Outlook	

Further Options

Unsettled generally, with winds between West and South.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T Saturday, 4th December, 1920.
1. S.E. England	Wind N.W. or N., strong or a gale, then decreasing; much cloud, some showers and squalls, hail locally, visibility fair or good; rather cold.
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	Wind N. and N.W., backing later, strong to moderate; variable sky, some local showers, hail or rain, visibility good; rather cold.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	Same as 1 - 3.
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	Wind N. and N.W., fresh to moderate; variable sky, some showers of rain or hail, visibility fair or good; rather cold.
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	Wind N.W. backing to W. or S.W., moderate to light; mainly fair, then dull, visibility fair or good; moderate temperature.
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	



AIR MINISTRY.
DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. NO. 359.

SATURDAY
4th DEC^R 1920

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 3.02																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 17h-18h	Day 18h-19h	Sunrise to Sunset 3rd	Max. °F.			Max. °F.	Min. °F.	Night 17h-18h	Day 18h-19h	Sunrise to Sunset 3rd			
Scotland	Oban	Partly cloudy	Partly cloudy	58	54	12	14	0.0	England N.E.	Douglas (I.O.M.)	Partly cloudy	57	54	18	22	5	5	1.0	
	Banff	Fog	Fog	57	54	7	8	0.0		Blackpool	Partly cloudy	57	54	42	42	5	5	1.0	
	Montrose	Partly cloudy	Partly cloudy	58	54	12	14	0.0		Southport	Partly cloudy	57	54	42	42	3	1	0.9	
	St. Andrews	Cloudy	Cloudy	58	54	12	14	0.0		MORRISTON	Partly cloudy	57	54	42	42	10	6	1.0	
England E.N.E.	Harrogate	Partly cloudy	Partly cloudy	53	50	9	8	0.1	Midlands	Buxton	Partly cloudy	57	54	42	42	5	5	1.0	
	Scarborough	Partly cloudy	Partly cloudy	54	50	6	4	1.1		Leamington Spa	Partly cloudy	57	54	42	42	3	1	1.1	
	Skegness	Partly cloudy	Partly cloudy	56	52	5	1	2.8		Malvern	Partly cloudy	57	54	42	42	1	1	1.1	
	Lowestoft	Cloudy	Cloudy	54	50	1	2	1.0		Bath	Partly cloudy	57	54	42	42	1	1	1.1	
England S.E.	Felixstowe	Partly cloudy	Partly cloudy	54	50	1	1	0.1	Wales	Rhyl	Partly cloudy	57	54	42	42	1	1	1.0	
	Southend-on-Sea	Partly cloudy	Partly cloudy	54	50	1	1	0.1		Colwyn Bay	Partly cloudy	57	54	42	42	2	2	0.9	
	Tunbridge Wells	Partly cloudy	Partly cloudy	54	50	5	7	0.1		Llandudno	Partly cloudy	57	54	42	42	1	1	0.9	
	Margate	Cloudy	Cloudy	56	51	1	1	0.0		Aberystwyth	Partly cloudy	57	54	42	42	2	2	1.1	
England S.E.	Ramsgate	Cloudy	Cloudy	56	51	0.3	1	0.0		Tenby	Partly cloudy	57	54	42	42	1	1	1.0	
	Folkestone	Partly cloudy	Partly cloudy	54	50	42	1	0.0		Swansea	Partly cloudy	57	54	42	42	1	1	1.0	
	Hastings	Partly cloudy	Partly cloudy	54	50	2	2	0.4		Weymouth	Partly cloudy	57	54	42	42	1	1	1.0	
	Eastbourne	Partly cloudy	Partly cloudy	53	49	1	2	0.4		Teignmouth	Partly cloudy	57	54	42	42	1	1	1.0	
England S.E.	Brighton	Partly cloudy	Partly cloudy	54	50	1	1	0.7	England S.W.	Torquay	Partly cloudy	57	54	42	42	1	1	1.0	
	Worthing	Partly cloudy	Partly cloudy	54	50	1	1	1.1		Paignton	Partly cloudy	57	54	42	42	2	2	0.9	
	Littlehampton	Partly cloudy	Partly cloudy	55	51	2	1	1.0		Penzance	Partly cloudy	57	54	42	42	2	2	1.0	
	Portsmouth (Southsea)	Partly cloudy	Partly cloudy	56	52	3	1	2.0		Newquay	Partly cloudy	57	54	42	42	1	1	1.0	
England S.E.	Bournemouth	Cloudy	Cloudy	55	51	3	1	1.9		Bude	Partly cloudy	57	54	42	42	1	1	0.9	
	Ventnor (I. of W.)	Cloudy	Cloudy	54	50	4	1	1.7		Ilfracombe	Partly cloudy	57	54	42	42	1	1	1.0	
										Weston-s-Mare	Partly cloudy	57	54	42	42	1	1	1.0	

STATIONS.		SUMMARIES FOR PAST 24 HOURS.								
		WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	RAINFALL, [†]	Sun. Hours.
7h-18h 3rd	18h-18h 3rd	18h 3rd-1h 4th	1h-7h 4th	Day, 7h-18h	Night, 18h-7h					
Renfrew	Partly cloudy	Partly cloudy	bif	bif	52	39	30	mm.	0.0	
Eskdalemuir	Fog	Fog	bbcq	bbcq	51	36	36	12	0.0	
Valencia (Cahircin)	Cloudy	Cloudy	cop	cop	62	44	46	1	2.1	
Baldonnel	Cloudy	Cloudy	bbbbb	bbbbb	45	40	36	0.3	2.2	
MANCHESTER (Aero)	Partly cloudy	Partly cloudy	coq	bccq	56	43	36	3	0.1	
Ross on Wye	Partly cloudy	Partly cloudy	bbcq	bbcq	56	41	33	0.4	2.1	
Falmouth	Partly cloudy	Partly cloudy	op	prh.	55	45	43	2	3.3	
Calshot (Hants)	Partly cloudy	Partly cloudy	bccq	bccq	56	43	39	3	1.9	
Lympne (Folkestone)	Partly cloudy	Partly cloudy	bbcq	bbcq	53	40	37	3	0.5	
Aberdeen	Fog	RRJ	RRJ	JF	50	42	40	21	10	0.0
Howden	Fog	JF	JF	JF	56	40	39	10	0.4	1.3
Cranwell (Lincs)	Partly cloudy	Partly cloudy	beccq	beccq	56	43	40	0.4	2.7	
Felixstowe	Partly cloudy	Partly cloudy	qbc	qbc	55	42	4	1	1.0	
Shoeburyness	Partly cloudy	Partly cloudy	qJ	ddddd	56	37	*	1	0.3	
Benson	Cloudy	Cloudy	bbcb	bbcc	56	41	34	1	0.1	
S. Farnborough	Partly cloudy	Partly cloudy	bcc	bcc	55	41	37	2	2.0	
London (Kew Observatory)	Partly cloudy	Partly cloudy	bcc	bcc	53	43	36	2	1.4	
Croydon	Partly cloudy	Partly cloudy	bbccq	bbccq	56	42	x	3	*	

LONDON, OBSERVATIONS.	WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall, mm.	Sunrise to Sunset, Hours.	HUMIDITY %	SOUTH KENSINGTON (Meteorological Office).
	Morning.	Afternoon.							

24 HOURS ENDING 9H G.M.T. 4th Decth

NOTES ON THE WEATHER OF YESTERDAY.

Gales from the Westward or North-Westward were experienced in most parts of the Kingdom. Rain fell very generally, the quantity being considerable or large in several places; 31mm at Aberdeen. Little bright sunshine was recorded over the Kingdom as a whole, but Penzance had 4.1 hours, Falmouth 3.3 hours and Bath 3.2 hours.

Photographic Record of

Pole Star (Polaris) and of δ Ursae

Minors at Greenwich Observatory.

Exposure from 17h 0 m. to 6 h 30 m.

Stars.	Duration of Exposure.	Duration of Record.
Polaris	13-30	10-40
δ Ursae Minors	13-30	10-17

* Information for these columns not usually received.

† Trace = rain has fallen but amount less than 0.1 mm.

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 3.02																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 17h-18h	Day 18h-19h	Sunrise to Sunset 3rd	Max. °F.			Max. °F.	Min. °F.	Night 17h-18h	Day 18h-19h	Sunrise to Sunset 3rd			
Scotland	Oban	Partly cloudy	Partly cloudy	58	54	12	14	0.0	England N.E.	Douglas (I.O.M.)	Partly cloudy	57	54	18	22	5	5	1.0	
	Banff	Fog	Fog	57	54	7	8	0.0		Blackpool	Partly cloudy	57	54	42	42	5	5	1.0	



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B.31,563 SUNDAY, 5TH DECEMBER, 1920.

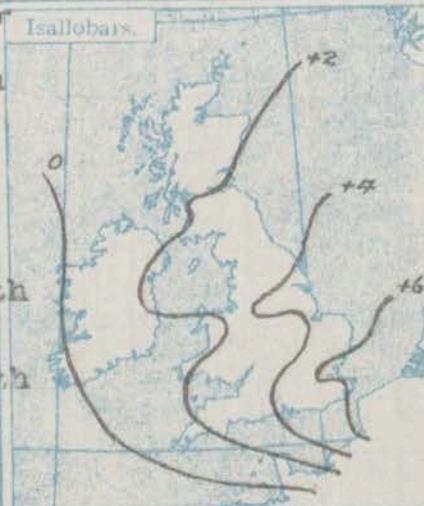
STATIONS.	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 18H AND 21H.																											
	BAROM. at M.S.L. mb.	Wind, Change in 8 hours.	Wind, Dir. Force 0-12.	Temp., °F.	Humidity, %	Visibility 0-9.	Height of Low Cloud, Feet.	Low Cloud.			Upper Cloud.			BAROM. at M.S.L. mb.	Wind, Change in 8 hours.	Wind, Dir. Force 0-12.	Temp., °F.	Humidity, %	Visibility 0-9.	Height of Low Cloud, Feet.	Low Cloud.	Upper Cloud.	Sea					
								Form.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.	Form.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.	Form.	Amt. 0-10.	0-9.	Form.	Amt. 0-10.	0-9.					
Renfrew ...	1029.5	+6	W	2	b	46	65	7	-	3,000	St.Cu	5	C.G.	3	+	1031.0	+3	NW	3	b	36	75	5	-	-	A.St	2	*
Eskdalemuir ...	1025.8	+4	N	6	bc	43	55	8	-	-	St.Cu	1	Cu	1	*	1029.5	+4	N	4	bc	39	75	8	-	-	St	1	*
Valencia (Cahirc'a)	1036.8	+1	NNW	4	c	52	75	8	2,000	St.Cu	8	-	-	-	*	1036.7	+1	N	3	bc	51	85	8	3,000	St.Cu	G	-	4
Baldonnel ...	1031.6	+2	NNW	5	bc	48	75	8	3,000	St.Cu	1	C.G.	3	*	1032.9	+1	-	0	b	42	85	6	-	-	A.Sc	1	*	
Manchester (Alex.P.)	1022.8	+5	NW	6	b2f	46	65	4	3,000	St.Cu	2	A.G.	1	*	1022.5	+4	NNW	4	b3P	44	65	3	3,000	St.Cu	2	-	*	
Ross on Wye ...	1022.0	+3	N	6	bc	48	55	9	4,200	St.Cu	5	-	-	*	1024.6	+3	NNW	5	c	43	65	8	3,000	St.Cu	3	A.Sc	5	
Falmouth ...	1028.0	-	NNW	7	bc	50	65	7	-	-	C.G.	5	-	-	*	1028.0	+1	NNW	7	b2b3P	46	75	5	-	Cutt	2	-	*
Calshot (Hants) ...	1018.9	+2	NNW	7	c	47	85	8	3,000	St.Cu	10	-	-	s	1020.5	+1	NNW	5	o	46	85	8	3,000	St.Cu	10	-	*	
Lympne (Folkestone)	1011.1	0	NNW	9	0gq	45	75	8	1,250	St	6	A.G.	2	*	1012.2	0	N	9	0gq	42	92	3	4,500	Nb	10	-	*	
Aberdeen ...	1026.0	+7	NNW	5	cq	46	65	8	1,250	Cu.Nb	8	-	-	-	*	1030.2	+5	NW	3	bif	42	75	6	-	-	-	-	4
Howden ...	1018.2	+2	NNW	6	0g	45	85	7	3,000	St	9	-	-	*	1023.4	+5	N	6	0gq	44	97	6	2,000	Nb	10	-	*	
Cranwell (Lines) ...	1017.5	+3	N	6	0f	42	97	6	2,000	Nb	9	-	-	*	1021.4	+4	NNE	6	bc	43	92	7	2,000	St.Cu	5	-	*	
Felixstowe ...	1018.4	+1	NNW	7	0gq	45	92	7	750	Nb	10	-	-	*	1031.1	+4	N	7	0gq	45	92	6	750	Nb	10	-	*	
Shoeburyness ...	1011.6	+1	NNW	7	0g	46	75	6	2,000	St.Cu	8	A.St	2	*	1013.6	+3	NNW	8	0gq	44	85	5	-	St	10	-	*	
Benson ...	1017.6	+1	NNW	6	0	45	65	4	-	-	St.Cu	8	-	-	*	1020.0	+2	NNW	6	o	44	75	4	-	St.Cu	8	-	*
S. Farnborough	1017.2	+1	NW	7	o	45	65	6	2,000	St.Cu	10	-	-	*	1018.8	+3	N	8	bc	44	75	7	1,250	St.Cu	6	-	*	
London (Kew Observatory)	1018.9	+2	NNW	6	c2gq	47	65	5	3,000	St.Cu	6	A.G.	1	*	1017.3	+2	NNW	6	0gq	44	75	5	750	St	10	-	*	
Croydon ...	1016.4	+3	NW	7	0gq	46	65	6	750	Nb	10	-	-	*	1017.8	+2	NNW	6	c2f	44	75	6	1,250	St.Cu	8	-	*	
Renfrew ...	1034.1	+3	NNW	3	b	36	65	8	-	-	St	1	-	-	*	1037.3	+2	o	0	b2f	31	92	5	-	-	-	-	*
Eskdalemuir ...	1036.9	0	NNW	3	bc	49	4	x	x	x	St	2	*	*	*	1035.6	+1	NNW	4	o	41	92	8	-	St.Cu	9	-	*
Valencia (Cahirc'a)	1034.6	0	-	0	b	36	92	5	-	-	St	1	*	*	*	1036.4	0	NE	1	o	48	75	8	4,200	St.Cu	10	-	*
Baldonnel ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1036.7	+2	-	0	02f	33	92	3	2,000	St.Cu	10	-	*
Manchester (Alex.P.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1032.7	+4	NNW	3	02f	42	85	3	2,000	St.Cu	3	-	*
Ross on Wye ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.4	+3	NE	4	o	42	75	7	2,000	St.Cu	9	-	*
Falmouth ...	1026.2	+1	N	7	b	45	75	7	-	-	-	-	*	*	*	1030.1	+2	NNE	5	b	44	75	8	-	-	-	*	
Calshot (Hants) ...	1021.7	+1	N	5	o	45	95	8	3,000	St.Cu	9	-	-	*	*	1026.7	+5	NNW	5	c	45	85	9	2,000	St.Cu	8	-	3
Lympne (Folkestone)	1019.1	+6	NNB	9	0gqm	44	95	5	4,800	St	10	-	-	*	*	1025.1	+7	NNE	6	oq	42	85	7	2,500	Nb	9	-	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1036.8	+2	NW	3	bif	38	92	7	-	-	-	-	4
Howden ...	1028.9	+4	N	3	o	43	85	6	2,000	St.Cu	10	-	-	*	*	1033.2	+4	NNW	1	0if	40	92	5	700	Nb	9	-	*
Cranwell (Lines) ...	1025.9	+1	NNC	5	02f	42	92	5	3,000	St	6	A.S.	4	*	*	1030.7	+3	NNC	4	c	43	92	6	3,000	St-C	6	A.G.	2
Felixstowe ...	1024.0	+7	NNC	6	o	45	92	6	1,250	St	10	-	-	*	*	1026.8	+5	NNC	3	0if	45	92	6	1,250	St-C	6	-	6
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.9	+7	NE	3	bc	44	85	7	4,200	St.Cu	4	-	*
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.5	+3	N	4	o	43	85	4	-	St.Cu	9	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.1	+6	NNC	6	od	44	85	6	1,250	Nb	7	A.S.	3
London (M.O. at Im.)	1021.5	+4	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.4	+3	NNC	3	02f	45	85	5	2,000	St	10	-	*
Croydon ...	1021.2	+3	N	7	0gqf	44	85	6	750	St.Cu	10	-	-	*	*	1027.0	+6	NNC	5	c1f	44	85	6	750	St.Cu	8	-	*
STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.																												
STATIONS.	BAROM. at M.S.L. mb.	TEMP. °F.	Wind, Dir. Force 0-12.	Weather	BAROM. at M.S.L. mb.	TEMP. °F.	Change in 3 hours.	Wind, Dir. Force 0-12.	Weather	BAROM. at M.S.L. mb.	TEMP. °F.	Change in 24 hours.	Wind, Dir. Force 0-12.	Weather	BAROM. at M.S.L. mb.	TEMP. °F.	Change in 3 hours.	Wind, Dir. Force 0-12.	Weather	BAROM. at M.S.L. mb.	TEMP. °F.	Change in 24 hours.	Wind, Dir. Force 0-12.	Weather	Sunshine hours.			
Lerwick	1029.7	-4	NNW	2	b	1035.5	+1	36	-12	-	0	1	-	b	bc	0	1	46	36	amqf	b	bc	bc	bc	bc	bc	bc	*
Stornoway	1033.3	-5	-	0	bc	1036.2	+1	45	+2	-	0	0	-	o	0	0	1	47	41	bc	bc	c						

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 5.12.20.				Temperature reported from Coastal and Cross Channel Steamers.					CHART OF POSITION NUMBERS and Upper Cloud
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.	Position-Number	Date	Time G.M.T.	Sea °F	Air °F	
1. S.E. England	Fine to dull.	Fair.	Rough						
2. E. England	Fair to dull.	Good.	Mod.						
3. E. Midlands	Cloudy.	Indif.	-						
4. W. Midlands	Cleudy.	Poor	-						
5. S.W. England	Fine to cloudy.	Good.	R.Rough						
6. South Wales	Fine to dull.	V.Good	Mod.						
7. North Wales	Fine.	Good.	"						
8. N.W. England	Fine to cloud, local mist.	Var.	Slight						
9. N. Midlands	Cloudy.	Indif.	-						
10. N.E. England	Dull, local mist or haze	Fair.	R.Rough						
11. E. Scotland	Fair or fine.	Good	Mod.						
12. S.W. Scotland	Fine to overcast, local mist.	Good.	Slight						
13. Isle of Man	Fine.	"	"						
14. N. & N.W. Scotland	Fair or fine, local mist	Fair.	Smooth						
15. Hebrides	Fair to dull.	Poor	V. Smooth						
16. Orkneys and Shetlands	Fair	"	Calm.						
17. N.W. Ireland	Cloudy, some mist.	Indif.	V. Smooth						
18. N.E. Ireland	Fine to cloudy.	Fair.	Slight						
19. S.E. Ireland	Fine to dull, local mist	"	Slight						
20. S.W. Ireland	Fine to dull.	Good	Smooth						

GENERAL INFERENCE from observations received up to 9h GMT.

An anticyclone over Scotland and Ireland will spread East and South-East causing fair to fine weather with little wind, and mist or fog inland at night with slight frost.

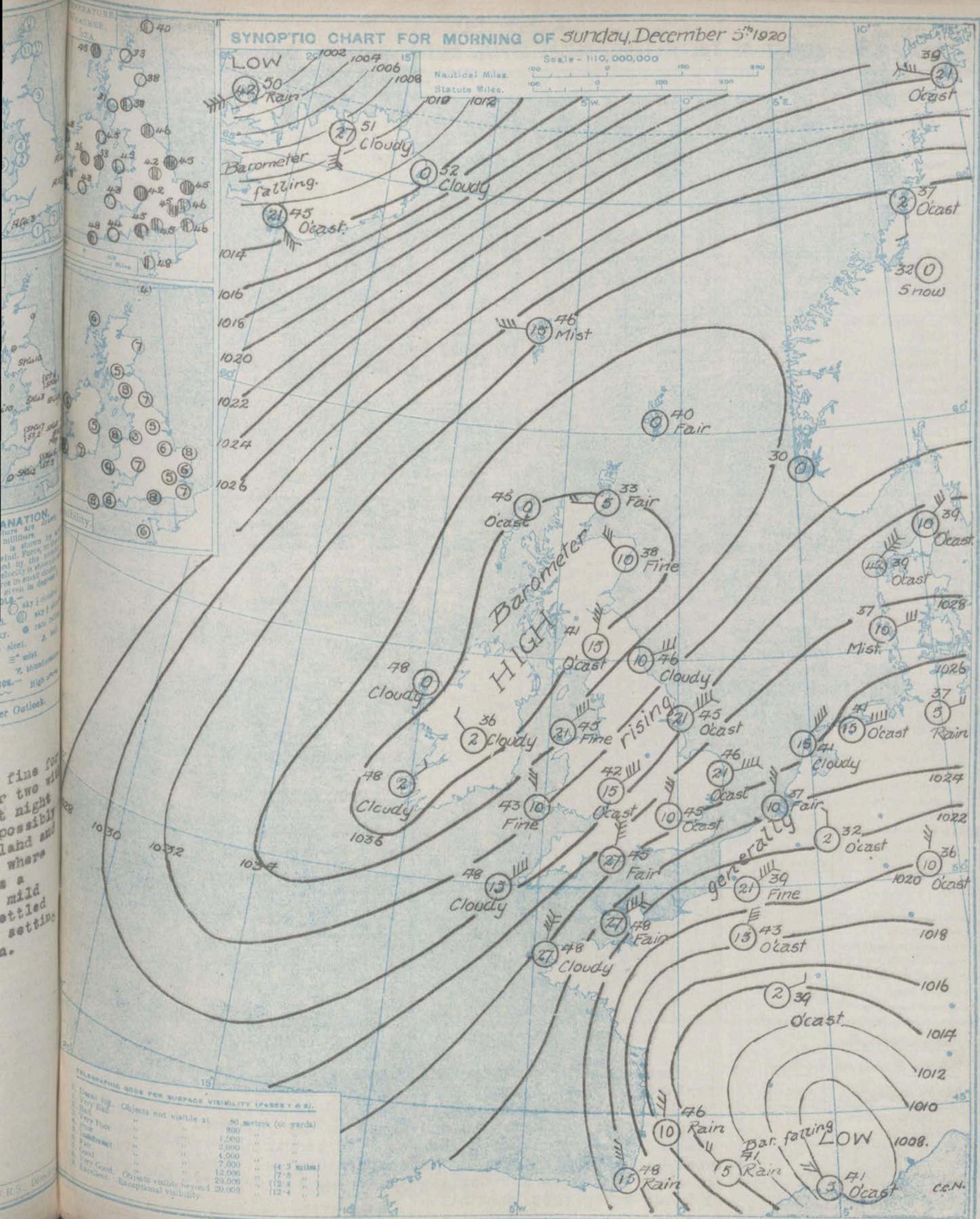
Barometric change from 4 h. to 7 h. (half millibars).



EXPLANATION
 BAROMETER—readings are given in millibars.
 INTERVALS of two millibars.
 WIND—Direction is shown by flying with the wind. Force is indicated by the number 0-12, as indicated by the fan-like symbols. Mean velocity is shown per hour by figures in small circles.
 TEMPERATURE is given in degrees Fahrenheit.
WEATHER SYMBOLS
 ☀ clear sky. ☁ sky cloudy. ☁ sky overcast. ☀ sun rising. ☀ sun setting.
 ☃ snow. ☂ ice. ☂ mist. ☂ fog. ☂ thunder. ☂ lightning.
 SEA STATE—
 Rough. High seas.

Further Outlook.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Sunday 5th December, 1920.
1. S.E. England	
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	Moderate NE wind, becoming light; fair to fine, slight frost at night inland with mist or fog, but visibility fair to good during the day.
12. S.W. Scotland	Light indefinite breezes; fair to fine, slight frost at night inland with mist or fog, partly clearing during the day.
13. Isle of Man	Light Southerly breezes; fair to cloudy; visibility fair; moderate temperature.
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	Same as 11 - 13.
19. S.E. Ireland	
20. S.W. Ireland	



AIR MINISTRY.
DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 340

SUNDAY
5TH DECEMBER

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR

STATIONS.	WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.	WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
	Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h.	Day 9h-10h.	Sunrise to Sunset.	4th		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h.	Day 9h-10h.	Sunrise to Sunset.	4th
Oban ... Scotland	b.c.bq	b.c	47	44	5	-	1-3		Douglas (I.O.M.)	b	b	46	43	0-2	-	6-2	
Banff ...	b.c.bq	b.c	47	44	5	-	1-3		Blackpool	b	b	46	43	0-2	-	6-0	
Montrose ...	c.o	cq	42	39	2	1	0-3		Southport	b	b	46	43	0-4	-		
St. Andrews ...	c.o	cq	48	41	10	1	0-0										
Harrogate ... England, E. N.E.	c.o	cq	42	39	2	1	0-3		Buxton	b	b	46	42	-	-	1	
Scarborough ...	c.o	cq	48	41	10	1	0-0		Leamington Spa	b	b	46	42	-	-	1	
Skegness ...	c.o	cq	46	43	2	3	0-0		Malvern	b	b	46	42	-	-	5-1	
Lowestoft ...	c.mq.p	c.mq.t	46	43	2	3	0-0		Bath	b	b	48	43	-	-		
Felixstowe ...	c.q.cq	c.q.cq	47	40	-	1	1-2		Rhyl	b	c.b.c	49	46	-	-		
Southend-on-Sea... England, S.E.	c.q.cq	c.q.cq	47	40	-	1	1-2		Colwyn Bay	c.o	c.o	49	44	-	-	4-3	
Tunbridge Wells ...	c	c	46	41	-	-	0-0		Llandudno	b	b	46	42	-	-	5-5	
Margate ...	c	cq	47	42	-	1	0-0		Aberystwyth	b.c.	c.b.c	49	46	-	-		
Ramsgate ...	c	cq	49	40	0-2	-	0-1		Tenby	b.c.	c.b.c	49	44	-	-		
Folkestone ...	c	cq	50	40	1	1	0-0		Swansea	b	b	46	42	-	-	6-9	
Hastings ...	c	b.c.o	48	41	Race	-	1-2										
Eastbourne ...	c	b.c	47	42	0-2	-	0-3										
Brighton ...	c	b.c	47	42	-	-	0-0										
Worthing ...	c	c	47	42	-	-	0-0										
Littlehampton ...	b.c	b.c	47	41	-	-	0-1										
Portsmouth (S. thase)	c	c	48	43	0-4	-	3-0										
Bournemouth ...	c	c	48	43	-	-	3-0										
Ventnor (I. of W.)	c	c	54	42	-	-	4-3										

STATIONS.	SUMMARIES FOR PAST 24 HOURS.									
	WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	RAINFALL, †		Sun. Hours.
	7h-18h	18h-19h	18h-19h	18h-19h				Day	Night	
Renfrew ...	b.bcf	b.bcf	b.bcf	b.bcf	48	30	18	mm.	mm.	43
Eskdalemuir ...	b.bcq	qb.bcb.bsh	W.bbc	W.bbc	43	35	31	-	-	6-2
Valencia (Cahircy) ...	b.bdc.o	b.bdc.t	b.bcc	b.bcc	52	46	41	-	-	1-0
Baldonnel ...	b.bco	b.bco	b.bcf	b.bcf	48	30	4	-	-	5-8
Manchester (Alex. Ph.)	b.bcf	b.bcfq	b.bcf	b.bcf	48	40	28	-	1	+
Ross on Wye ...	bc.cvhq.bhg.vhbg	coq	coq	coq	49	42	35	-	-	5-8
Falmouth ...	b.c.e	b.c.b	b	b	51	43	40	1	-	6-2
Calshot (Hants) ...	b.bcoq	c.oq	abbc.coq	abbc.coq	48	42	40	-	-	3-5
Lympne (Folkestone) ...	b.bcafq	qc.tataq	b.bcafq	b.bcafq	45	41	38	3	8	0-3
Aberdeen ...	b.bcf	b.c.f	W.bcf	W.bcf	46	37	52	0-4	-	2-0
Howden ...	c	c	U.Z	U.Z	46	39	36	2	-	0-7
Cranwell (Lincs) ...	c.tq	t.b.c	bcc.co	bcc.co	44	41	38	1	-	0-0
Felixstowe ...	c.tq	t.RRq.aq	qRR.bop	qRR.bop	47	41	41	3	6	0-0
Shoeburyness ...	q.td	a.b.c	q.b	q.b	47	42	42	1	1	1-2
Benson ...	c	c	0	0	46	42	40	-	-	0-0
S. Farnborough ...	bcc.o	a.bcc.t	bcc.co	bcc.co	46	43	40	-	-	0-7
London (Kew Observatory) ...	c.tq.zt	c.tq.yq	coq	coq	47	43	40	-	-	0-5
Croydon ...	c.tq.yq	c.tq.yq	coq	coq	46	43	40	-	-	0-2
	0.0-2-16q									

LONDON OBSERVATIONS.	WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall, mm.	Sunshine to Sunset, Hours.	HUMIDITY %	Vertical Component of Solar Radiation per Square Centimetre during yesterday	Total Joules Milliwatts.	Average Rate.	Maximum Rate.	SOUTH KENSINGTON (Meteorological Office).
	Morning.	Afternoon.											
36 HOURS ENDED ON G.M.T. SUNDAY													
Greenwich (Royal Observatory)	0	0.0	b.cq	47	43	37	1	0-1	74	76			
City (Bunhill Row)	*	*	*	*	*	*	*	*	*	*			
Westminster (St. James's Park)	*	*	*	*	*	*	*	*	*	*			
Regents Park (Botanical Garden)	*	*	*	*	*	*	*	*	*	*			
Camden Sq. (British Museum)	cqb.c	bcc.cq	*	47	43	37	2	*	68	77			
Kensington Palace	c	c b.c	*	47	42	39	1	*	79 (18h)	85			
Hampstead Observatory	*	*	*	*	*	*	*	*	*	*			

Photographic Record of

Pole Star (Polaris) and of 8 Ursae

Minoris at Greenwich Observatory.

Exposure from b to m

Stars. Duration of Exposure. Position of Stars.

Polaris & 8 Ursae Minoris

NOTES ON THE WEATHER OF YESTERDAY.

Rain fell in considerable quantity on the East coast of England, 11mm at Lympne 7mm at Cleethorpes and 3mm at Tynemouth. In these regions there was practically no sunshine, but further West and North about six hours was recorded at several places. The aurora borealis was observed in the evening at most Northern stations. The temperature fell to 32° at Wick at night but the Northerly gale during the day over England did not bring very cold air.

TABLE SHOWING THE GREENWICH TIME OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM			
5TH AND 6TH DECEMBER 1920.		Sunrise. Noon. Sunset.	
Stations.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.47	11.44	17.51
Greenwich ...	7.50	11.51	17.52
Wick ...	8.45	12.32	18.32
Valencia ...	8.35	12.32	18.32

* Type - rain has fallen but amount less than 0.1 mm.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

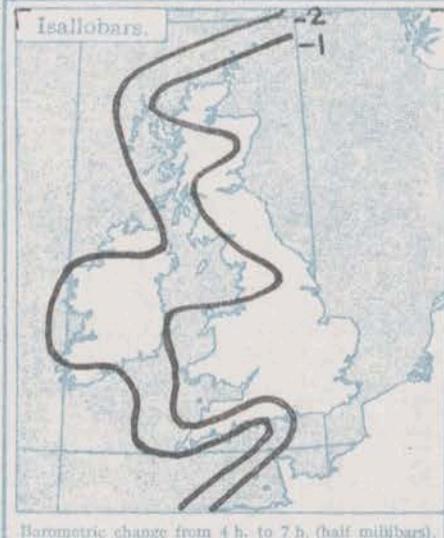
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MONDAY, 6TH DECEMBER.....1920.

STATIONS	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																									
	BAROM. at M.S.L. mb.	Change in 8 hours.	WIND.		TEMP. °F.	Humidity %	Visibility 0-9.	Height of Low Cloud, Feet.	Low Cloud.		Upper Cloud.		Sea 0-9.	BAROM. at M.S.L. mb.	Change in 8 hours.	WIND.		TEMP. °F.	Humidity %	Visibility 0-9.	Height of Low Cloud, Feet.	Low Cloud.		Upper Cloud.		Sea 0-9.
			Dir.	Force 0-12.					Form.	Amt. 0-10.	Form.	Amt. 0-10.				Dir.	Force 0-12.				Form.	Amt. 0-10.	Form.	Amt. 0-10.		
13H. G.M.T.																				18H. G.M.T. OF						
Renfrew ...	1038.5	0	-	0	63	40	82	3	-	-	A S	Y	*	1038.2	-1	N	0	63	31	77	2	700	S	10	-	-
Eskdalemuir ...	1036.0	0	NNE	3	6	43	75	8	-	S. Cu	1	A	1	1037.5	0	NE	3	66	37	85	7	-	Cu	5	-	-
Valencia (Cahirc'n)	1036.1	-2	-	0	60	50	75	8	-	-	C	4	3	1035.6	1	NE	2	63	44	85	8	-	Cu	1	5	3
Baldonnel ...	1037.3	0	-	0	61	39	86	6	2000	S. Cu	10	-	-	1036.7	0	N	0	62	37	73	4	1200	S. Cu	10	-	-
MANCHESTER (A.M.)														1034.2	0	LEAD	3	64	45	78	3	1150	115	10	-	-
Ross on Wye ...	1034.0	0	NW	4	62	45	75	4	3000	N	2	-	-	1032.2	1	NNE	4	61	43	79	5	2000	S	10	-	-
Falmouth ...	1031.9	-2	NW	4	0	44	76	6	3000	S. Cu	10	-	-	1031.7	1	NNE	4	62	44	85	4	-	S. Cu	2	-	-
Calshot (Hants) ...	1028.4	-1	NW	4	6	47	75	5	-	S. Cu	1	-	-	1029.0	0	NNE	4	61	45	85	7	2000	S	10	-	-
Lympne (Folkestone)	1026.6	1	NW	6	92	46	76	7	1250	S. Cu	5	A Cu	3	1027.6	0	NNE	5	62	40	92	4	1500	N	10	-	-
Aberdeen ...	1034.5	0	NW	2	61	42	85	7	-	C	1	3	1038.2	1	NW	2	62	38	85	5	-	-	-	-	3	
Howden ...	1032.1	-1	NW	3	6	45	75	7	1250	S. Cu	3	A S	1	1033.7	0	NNE	2	66	46	92	8	3000	S	10	-	-
Cranwell (Lines) ...	1032.3	0	NNE	4	0	42	97	8	3000	N	5	-	-	1032.5	0	NNE	3	6	36	97	6	3000	S	1	-	-
Felixstowe ...	1028.3	0	NNE	5	0	45	85	6	1250	S. Cu	10	-	-	1028.7	0	N	5	0	45	92	6	1250	S	10	-	3
Shoeburyness ...	1027.6	-2	NNE	2	0	44	85	7	3700	S. Cu	5	A Cu	9	1026.7	0	NNE	3	6	44	85	7	500	S	10	-	-
Benson ...	1030.6	0	N	5	0	43	85	6	4200	S. Cu	8	-	-	1030.2	0	N	5	0	42	55	6	-	S. Cu	9	-	-
S. Farnborough	1029.1	0	NNE	0	03	45	75	6	1250	S. Cu	Y	A S	3	1029.5	1	NE	4	60	43	85	6	1250	S. Cu	10	-	-
London (Kew Obs.)	1029.0	-1	NNE	4	02	46	76	5	3200	S. Cu	4	A Cu	5	1029.5	0	NNE	4	62	44	85	6	4200	S. Cu	10	-	-
Croydon ...	1028.8	0	NNE	4	02	46	85	4	180	S. Cu	10	-	-	1029.2	0	NNE	5	62	43	85	4	180	S. Cu	10	-	-
14H. G.M.T. OF																				7H. G.M.T. OF						
Renfrew	1036.6	-2	-	0	bc	37	85	7	-	st. Cu	5	-	-	1036.0	-1	-	0	68	26	91	1	1500	S	10	-	-
Eskdalemuir ...	1024.8	-1	ENE	1	bc	40	*	*	*	*	*	*	*	1032.2	0	-	0	62	30	97	2	-	S.	1	-	-
Valencia (Cahirc'n)	1036.6	-3	-	0	bc	37	97	5	3000	st. Cu	4	-	-	1033.6	-5	NE	0	62	36	92	6	2010	St. Cu	9	-	-
MANCHESTER (A.M.)														1032.4	0	NE	2	62	31	95	3	3000	St. Cu	9	-	-
Ross on Wye ...	*	*	*	*	*	*	*	*	*	*	*	*	*	1032.3	-1	NE	3	62	30	95	5	2000	S	8	1950	25
Falmouth ...	1026.3	-1	N	3	6	41	73	7	2000	st. Cu	7	-	-	1029.0	-20	NNE	3	6	39	95	7	-	S.	1	-	-
Calshot (Hants) ...	1028.2	-1	N	3	0	44	97	7	2000	94	9	-	-	1027.7	0	NNE	3	60	41	97	2	2000	S	10	-	22
Lympne (Folkestone) ...	1026.1	0	NE	6	030pm	40	92	4	1250	N	10	-	-	1026.3	0	NE	6	62	38	95	6	750	39	10	-	-
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	1036.0	-1	NHN	1	cafe	32	97	2	2000	S. Cu	8	-	-
Howden ...	1032.4	-1	NE	2	cr	38	97	7	3000	N	8	-	-	1032.5	-1	NE	1	0	39	97	5	2000	S.	8	-	-
Cranwell (Lines) ...	1032.3	0	NE	3	6	37	92	5	3000	st. Cu	9	-	-	1031.0	0	NE	3	60	40	97	6	1200	S. Cu	9	-	-
Felixstowe ...	1028.4	0	NE	6	010g	43	82	6	1250	Nb	10	-	-	1028.1	0	NE	6	62	42	75	6	1250	S. Cu	10	-	6
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.1	0	FSE	4	0	42	25	7	2000	S. Cu	10	-	-
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.0	0	NE	3	0	39	92	8	-	S. Cu	10	-	-
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.1	0	NE	4	0	40	85	6	1250	S. Cu	7	ASy	3
London (M.C. at 1H)	1028.7	-1	NNE	5	01f	41	92	6	750	Nb	10	-	-	1028.2	0	NNB	4	62	40	85	5	1250	S.	10	ASy	2
Croydon ...	1028.4	-2	NNE	5	01f	41	92	6	750	Nb	10	-	-	1028.2	0	NNB	4	62	40	85	5	1250	S.	10	-	-
STATIONS CONTRIBUTING REPORTS AT 7H AND 13H.																				24 HOURS ENDED 7H.						
STATIONS.	BAROM. at M.S.L. mb.	TEMP. °F.	Wind.	Wind.	Barom.	Temp. °F.	Change in 24 hours.	Wind.	Dir.	Force 0-12.	Barom.	Temp. °F.	Wind.	Wind.	Dir.	Force 0-12.	Barom.	Temp. °F.	Wind.	Wind.	Wind.	Wind.	Wind.	Wind.	Wind.	Sunshine Hours.
Lerwick ...	1036.4	46	-	0	C	1034.6	-2	46	H	S	2	-	10	1	-	47	40	bcn	bcn	bcn	bcn	bcn	bcn	bcn	bcn	bcn
Stornoway ...	1036.1	49	-5	1	0	1032.7	-	46	H	S	2	-	0	1	-	47	32									

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 6.12.1920.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.	Temperature reported from Coastal and Cross Channel Steamers				
				Position Number.	Date	Time G.M.T.	Sea °F	Air °F
1. S.E. England	Cloudy or dull.	Fair.	Mod.	4A.	4 th	03.45	50	48
2. E. England	Dull.	Good	"	12.	"	08.15	50	48
3. E. Midlands	Dull.	Fair	-	5.	9.	08.31	51	48
4. W. Midlands	Dull, misty.	Indiff.	-	4A.	5 th	04.45	49	42
5. S.W. England	Fine to dull.	Good	Mod.	8.	"	04.43	49	48
6. South Wales	Fine.	"	Smooth	6.	"	15.10	53	47
7. North Wales	Dull.	"	Slight					
8. N.W. England	Fair to dull, mist in (South.)	Indiff.	Smooth					
9. N. Midlands	Cloudy or dull.	"	-					
10. N.E. England	Fair to dull, local showers.	"	Mod.					
11. E. Scotland	Fine to dull, frosty.	Poor	Smooth					
12. S.W. Scotland	Fine to dull, fog at Glasgow.	Var.	"					
13. Isle of Man	Fair to dull.	Good	"					
14. N. & N.W. Scotland	Fine to cloudy.	Fair	"					
15. Hebrides	Cloudy or dull.	"	Slight					
16. Orkneys and Shetlands	Fine.	"	Smooth					
17. N.W. Ireland	Fair.	"	"					
18. N.E. Ireland	Fair.	"	"					
19. S.E. Ireland	Dull.	Good	"					
20. S.W. Ireland	Fine to dull.	"	"					



EXPLANATION.
BAROMETER.—Isolobars are drawn in intervals of two millibars.
WIND.—Direction is shown by arrow flying with the wind. Force of wind 0-12 is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—
○ clear sky. ☁ sky & cloudy. ☁ overcast sky.
* snow. ☂ sleet. ☃ rain.
≡ fog. ☤ thunder.
SEA DISTURBANCE.—Rough.

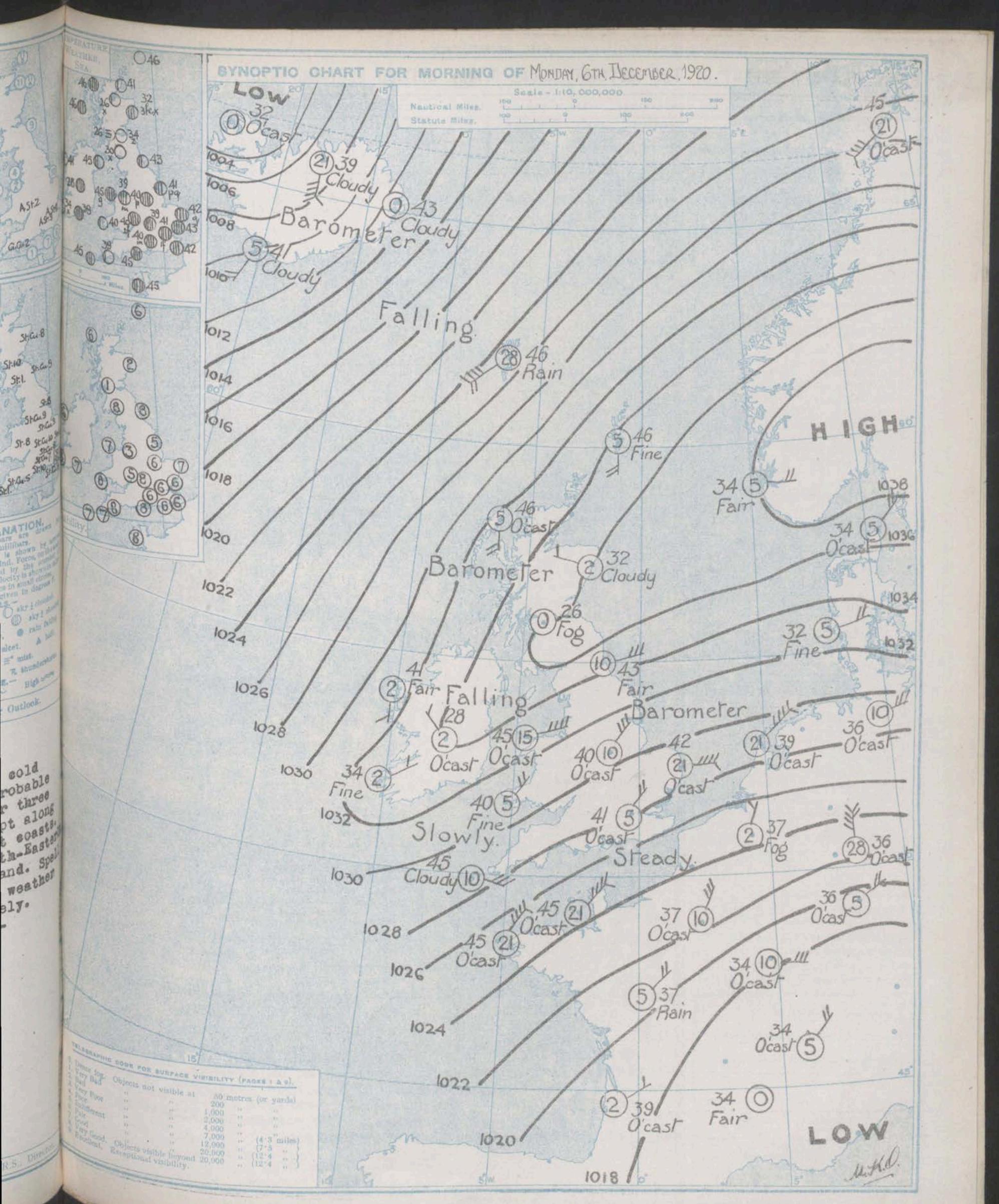
Further Outlook

GENERAL INFERENCE from observations received up to 9h.

The anticyclone extending from Scandinavia to Ireland will probably maintain North-Easterly winds over the Southern half of the Kingdom for two or three days. Rather cold weather with a good deal of cloud is indicated. In Scotland and North Ireland weather will be fair with Southerly winds. Subsequently a spell of frosty weather is not unlikely.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Monday, 6th December, 1920.	
1. S.E. England		Rather cold weather probable for two or three days except along North-West coasts.
2. E. England	Wind N.E., moderate, fresh locally; mainly overcast, some local showers, visibility fair; rather cold.	
3. E. Midlands		
4. W. Midlands		
5. S.W. England		
6. South Wales	Wind mainly N.E., light or moderate; cloudy, visibility fair but some local mist; rather cold.	
7. North Wales		
8. N.W. England		
9. N. Midlands		
10. N.E. England		
11. E. Scotland	Wind light variable; fine, visibility fair, local fog; cold.	
12. S.W. Scotland		
13. Isle of Man		
14. N. & N.W. Scotland	Wind S. or S.W., light or moderate; mainly fair or fine, visibility fair to good; temperature moderate.	
15. Hebrides		
16. Orkneys and Shetlands		
17. N.W. Ireland		
18. N.E. Ireland		
19. S.E. Ireland	As for 11 - 13.	
20. S.W. Ireland		

E.S.C.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. NO. 341.

MONDAY
6th DEC. 1920

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 17h-18h.	Day 18h-19h.	Sunrise to Sunset.	Forenoon.			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 17h-18h.	Day 18h-19h.	Sunrise to Sunset.	
Scotland	Oban	8	6	46	31	-	-	4.3	England N.W.	Douglas (L.O.M.)									51
	Bauff	8	6	46	31	-	-	4.3		Blackpool	8	8	8	47	38	-	-	-	51
	Montrose	8	6	44	37	5	-	5.5		Southport	8.8	8.8	8	46	39	-	-	-	51
	St. Andrews	8	6	44	37	5	-	5.5	Midlands	Buxton	8	8	8	48	40	0.7	-	-	51
England N.E.	Harrogate	8	6.8	44	37	5	-	5.5		Leamington Spa	8	8	8	40	0.7	-	-	-	51
	Scarborough	8	6.8	44	37	5	-	5.5		Malvern	8	8	8	40	0.7	-	-	-	51
	Skegness	8	6	44	37	5	-	5.5		Bath	8	8	8	45	43	-	0.1	-	51
England S.E.	Lowestoft	8	6	44	37	5	-	5.5		Rhyl	8	8	8	46	42	-	-	-	51
	Felixstowe	8	6.8	44	37	5	-	5.5		Colwyn Bay	8	8	8	46	43	-	-	-	51
	Southend-on-Sea	8	6.8	44	37	5	-	5.5		Llandudno	8	8	8	44	37	-	-	-	51
England S.W.	Tunbridge Wells	8	6	46	44	1	-	0.4		Aberystwyth	8	8	8	45	42	-	-	-	51
	Margate	8	6	48	42	1	2	0.0		Tenby	8	8	8	45	42	-	-	-	51
	Ramsgate	8	6	48	42	1	2	0.0		Swansea	8	8	8	45	42	-	-	-	51
	Folkestone	8	6	50	42	7	9	0.0	Weymouth	8.8	8.8	8	48	42	-	-	-	51	
	Hastings	8	6.8	50	42	2	1	?		Teignmouth	8	8	8	48	42	-	-	-	51
	Eastbourne	8	6.8	50	42	2	1	?		Torquay	8	8	8	48	42	-	-	-	51
	Brighton	8	6.8	50	42	1	-	2.9		Paignton	8	8	8	48	42	-	-	-	51
	Worthing	8	6.8	50	42	1	-	2.8		Penzance	8	8	8	48	42	-	-	-	51
	Littlehampton	8	6.8	50	42	1	-	3.0		Newquay	8	8	8	48	42	-	-	-	51
	Portsmouth (S'tsea)	8	6	48	44	2	-	2.5		Bude	8	8	8	48	42	0.2	-	-	51
	Bournemouth	8	6	48	43	2	-	2.1		Ilfracombe	8	8	8	48	42	-	-	-	51
		8	6	48	43	2	-	2.1		Weston-s-Mare	8	8	8	48	42	-	-	-	51

SUMMARIES FOR PAST 24 HOURS.											
STATIONS.		WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	RAINFALL.		Sun. Hours:
		7h-18h	18h-19h	18h4-19h	18h-19h4				mm.	mm.	
Renfrew	8.8.8.8	6.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	41	26	16	-	2.0	51
Eskdalemuir	8.8.8.8	5.8.6.6	0.0.0.0	0.0.0.0	0.0.0.0	43	23	23	-	5.7	51
Valencia (Cahirc'ng)	8.8.8.8	6.8.6.8	0.0.0.0	0.0.0.0	0.0.0.0	50	34	29	-	6.4	51
Baldonnel	8.8.8.8	6.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	-	-	-	-	-	51
MANCHESTER (ALD)	8.8.8.8	6.8.6.8	0.0.0.0	0.0.0.0	0.0.0.0	46	40	32	-	1.7	51
Ross on Wye	8.8.8.8	6.8.6.8	0.0.0.0	0.0.0.0	0.0.0.0	44	39	33	-	0.0	51
Falmouth	8.8.8.8	6.8.6.8	6.8.6.8	6.8.6.8	6.8.6.8	48	38	34	-	5.6	51
Calshot (Hants)	8.8.8.8	6.8.6.8	0.0.0.0	0.0.0.0	0.0.0.0	48	41	36	-	1.9	51
Lympne (Folkestone)	8.8.8.8	6.8.6.8	0.0.0.0	0.0.0.0	0.0.0.0	46	38	35	3	2.8	51
Aberdeen	8.8.8.8	6.8.6.8	2.8.3.8	2.8.3.8	2.8.3.8	42	31	26	-	5.2	51
Howden	8.8.8.8	6.8.6.8	0.0.0.0	0.0.0.0	0.0.0.0	46	36	30	-	1.7	51
Cranwell (Lincs)	8.8.8.8	6.8.6.8	0.0.0.0	0.0.0.0	0.0.0.0	44	35	31	1	0.2	51
Felixstowe	8.8.8.8	6.8.6.8	0.0.0.0	0.0.0.0	0.0.0.0	47	41	37	1	0.2	51
Sleeburyness	8.8.8.8	6.8.6.8	0.0.0.0	0.0.0.0	0.0.0.0	46	40	38	1	0.1	51
Benson	8.8.8.8	6.8.6.8	0.0.0.0	0.0.0.0	0.0.0.0	46	39	36	-	*	51
S. Farnborough	8.8.8.8	6.8.6.8	0.0.0.0	0.0.0.0	0.0.0.0	46	41	37	0.2	0.1	51
London (Kew Obsy.)	8.8.8.8	6.8.6.8	0.0.0.0	0.0.0.0	0.0.0.0	48	40	39	-	0.0	51
Croydon	8.8.8.8	6.8.6.8	0.0.0.0	0.0.0.0	0.0.0.0	46	40	*	0.4	*	51

LONDON OBSERVATIONS.		WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rain-fall.	Sunshine to Sunset Hours.	HUMIDITY %		SOUTH KENSINGTON (Meteorological Office).
		Morning	Afternoon.						15 h. G.M.T.	9 h. G.M.T.	
24 HOURS ENDED IN G.M.T. 6 th											
Greenwich (Royal Observatory)	8	8	40	46	39	38	1	0.0	79	56	
City (Bunhill Row)	8	8	*	*	*	*	*	0.0	*	*	
Westminster (St James's Park)	8	8	40	47	41	37	1	0.0	78	51	
Regents Park (Borough Gdns)	8	8	*	*	*	*	*	0.0	*	*	
Camden Sq. (British Rainfall)	8	8	*	46	39	37	2	*	-	87	
Kensington Palace	8	8	*	47	38	38	1	*	58 (18h)	56	
Hampstead Observatory	8	8	*	42	38	37	1	*	*	*	
<u>Photographic Record of</u>											
<u>Pole Star (Polaris) and of 8 Ursae Minoris at Greenwich Observatory.</u>											
<u>Exposure from 6th to 6th 6 h. 45 m.</u>											
Stars.	Duration of Exposure.	Duration of Record.									
Polaris	h. m.	h. m.	%								
8 Ursae Minoris	13. 45	0. 0	0								

* Information for these columns not usually received.

Vertical Component of Solar Radiation per Square Centimetre during yesterday.			
Stations.			
G.M.T.			
Yarmouth			
Greenwich			
Wick			
Valencia			

Slight falls of rain occurred in the East and South-East districts, the largest amount being 6 mm at Lympne. Sunshine was abundant in the Western districts, Penzance recording as much as 7.4 hours and Valencia 6.4 hours. Temperature failed to reach 50° in most places and there were some rather low minima in Scotland, 25° at Nairn and 26° at Renfrew.

NOTES ON THE WEATHER OF YESTERDAY.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B24,565 Tuesday, 7th December.....1920.

STATIONS.	OBSEERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 9H, 7H, 15H AND 18H.																									
	BAROM. at M.S.L. mb.	↓ Change in 8 hours.	WIND.		TEMP. °F.	Humidity, % 0-9.	Height of Low Cloud, Feet.	Low Cloud.		Upper Cloud.		Sea 0-9.	BAROM. at M.S.L. mb.	↓ Change in 8 hours.	WIND.		TEMP. °F.	Humidity, % 0-9.	Height of Low Cloud, Feet.	Low Cloud.		Upper Cloud.		Sea 0-9.		
			Dir.	Force 0-12.				Form.	Amt. 0-10.	Form.	Amt. 0-10.				Dir.	Force 0-12.				Form.	Amt. 0-10.	Form.	Amt. 0-10.			
15H. G.M.T. 6 ⁺																										
Renfrew ...	1034.4	-3	-	0	08f	29	97	0	4500	S ₂	10	-	-	1032.5	-1	-	0	08f	30	97	0	4500	S ₂	10	-	-
Eskdalemuir ...	1023.8	-2	EME	3	c	39	85	7	4,200	S ₂ Cu	7	-	-	1021.9	-1	ME	2	07f	37	85	5	2,000	S ₂	10	-	-
Valencia (Cahirc's)	1025.6	-4	EME	2	b	46	75	8	4,200	Cu	2	-	-	1027.4	-2	ESE	3	b	42	75	8	4,200	S ₂ Cu	2	-	3
Baldonnel ...	1031.4	-2	E	1	02f	42	92	5	3,000	S ₂ Cu	10	-	-	1029.2	0	-	0	02f	42	75	4	2,000	S ₂ Cu	10	-	-
Manchester (alex PH)	1030.5	-3	EME	4	02f	43	75	4	3,000	S ₂	5	0.0e	4	1029.2	-1	ME	3	03f	42	75	3	2,000	S ₂ Cu	10	-	-
Ross on Wye ...	1028.4	-3	EME	4	07f	42	75	6	4,200	S ₂ Cu	10	-	-	1027.3	-1	ME	2	01f	39	85	6	1,250	S ₂	10	-	-
Falmouth ...	1027.3	-3	MME	3	c2f	43	75	7	-	-	-	-	-	1025.7	-1	NNE	4	02f	41	85	4	-	S ₂ Cu	10	-	-
Calshot (Hants) ...	1026.0	-3	ME	4	02f	42	97	5	2,000	S ₂	10	-	-	1025.5	0	ME	3	02f	40	92	5	3,000	S ₂ Cu	10	-	-
Lympne (Folkestone)	1025.0	-3	EME	5	08f	41	75	8	3,000	S ₂ Cu	10	-	-	1024.3	-2	ME	6	0m7	40	92	7	1,250	S ₂	10	-	-
Aberdeen ...	1034.3	-3	WWN	1	03f	40	92	2	2,000	S ₂ Cu	10	-	-	1033.0	-2	S	1	c2fe	43	85	5	2,000	S ₂ Cu	8	-	-
Howden ...	1030.9	-4	E	3	c	43	75	6	4,200	S ₂ Cu	8	-	-	1029.7	-2	E	2	07f	41	92	5	4,500	N ₂	5	57	5
Cranwell (Lincs) ...	1029.8	-3	ME	4	01f	41	97	7	1,250	S ₂ Cu	7	-	-	1028.4	-1	ME	3	b	39	97	6	3,000	N ₂	4	-	-
Felixstowe ...	1027.0	-3	ME	5	o	42	85	6	1,250	Cu	9	-	-	1025.5	-1	ME	4	o	43	92	7	2,000	N ₂	10	-	-
Shoeburyness ...	1026.3	-2	ME	5	06o	41	85	7	2,000	S ₂ Cu	9	-	-	1023.9	-3	MME	2	07f	40	92	7	2,000	S ₂ Cu	10	-	-
Benson ...	1026.8	-1	ME	3	o	41	85	6	-	S ₂ Cu	10	-	-	1026.4	-1	-	0	b	33	97	7	-	-	-	-	-
S. Farnborough	1026.7	-3	ME	3	02f	40	85	5	1,250	S ₂	10	-	-	1025.8	-1	MME	2	02f	38	85	5	750	S ₂	10	-	-
London (Kew Observatory)	1027.1	-3	ME	3	02f	40	75	4	3,000	S ₂ Cu	10	-	-	1025.8	-1	MME	2	c2f	40	75	5	6,700	S ₂ Cu	8	-	-
Croydon ...	1026.6	-3	MME	5	03f	40	85	3	750	S ₂	10	-	-	1025.6	-2	ME	4	02f	39	85	4	750	S ₂	10	-	-
7H. G.M.T. OF 7 ⁺																										
Renfrew ...	1029.3	-3	NNE	1	b2c	31	85	7	-	S ₂ Cu	1	-	-	1024.9	-4	-	0	07f	27	97	0	2,500	S ₂	10	-	-
Eskdalemuir ...	1022.0	-4	ESE	1	b2c	42	*	*	*	*	*	*	*	1024.8	-4	ENE	3	0	35	92	7	-	S ₂	10	-	-
Valencia (Cahirc's)	1023.0	-3	-	0	02f	39	92	4	1200	S ₂	10	-	-	1021.3	-4	-	0	07f	37	97	4	2,000	S ₂ Cu	9	-	-
Baldonnel ...	1022.6	-3	-	0	*	*	*	*	*	*	*	*	*	1022.0	-3	ENE	2	03f	42	85	3	3,000	S ₂ Cu	10	-	-
Manchester (alex PH)	1022.6	-3	-	0	*	*	*	*	*	*	*	*	*	1020.9	-2	ENE	2	02fe	38	97	4	750	S ₂	10	-	-
Ross on Wye ...	1022.6	-3	NNE	2	0	39	85	5	-	S ₂	10	-	-	1019.9	-3	NNE	2	0	37	85	6	-	S ₂ Cu	9	-	-
Falmouth ...	1022.2	-4	NNE	3	0	39	97	6	2,000	S ₂	10	-	-	1019.9	-3	-	0	01f	39	97	6	3,000	S ₂ Cu	10	-	-
Caishot (Hants) ...	1021.7	-3	NE	3	01f	38	92	7	2,000	S ₂	10	-	-	1018.5	-5	NE	3	0ff	39	92	7	1250	S ₂	10	-	-
Lympne (Folkestone)	1022.1	-2	-	-	*	*	*	*	*	*	*	*	*	1018.3	-3	S	1	c2fe	41	85	5	3,000	S ₂ Cu	8	-	-
Aberdeen ...	1026.4	-4	-	0	42	92	7	3,000	S ₂	10	-	-	-	1022.6	-4	-	0	0	38	92	7	3,000	S ₂	5	RCu	4
Howden ...	1023.2	-1	NE	2	01f	40	92	5	2,000	H ₂ N ₂	10	-	-	1022.1	-3	NE	2	0	40	91	5	2,000	S ₂	9	-	-
Cranwell (Lincs) ...	1023.2	-2	NE	4	01f	42	92	6	3,000	S ₂	10	-	-	1020.2	-2	NE	4	0	42	92	7	2,000	S ₂ Cu	10	-	-
Felixstowe ...	1019.4	-3	-	-	*	*	*	*	*	*	*	*	*	1019.4	-3	NE	1	0	42	85	7	3,000	S ₂	10	-	-
Shoeburyness ...	1021.1	-3	-	-	*	*	*	*	*	*	*	*	*	1019.5	-3	NNE	2	0	39	97	5	-	S ₂	10	-	-
Benson ...	1019.6	-3	-	-	*	*	*	*	*	*	*	*	*	1021.1	-3	-	0	08f	40	97	2	750	S ₂	10	-	-
S. Farnborough ...	1019.6	-2	-	-	*	*	*	*	*	*	*	*	*	1019.6	-4	NNE	2	02f	40	92	4	1250	S ₂	10	-	-
London (M.O. at 1 st)	1022.1	-2	-	-	*	*	*	*	*	*	*	*	*	1020.1	-4	NNE	2	02f	40	92	4	750	S ₂	10	-	-
Croydon ...	1022.2	-3	NE	4	od3f	39	97	4	750	N ₂	10	-	-	-	-	-	-	-	-	-	-	-	-	-		
STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.																										
STATIONS.	BAROM. at M.S.L. mb.	TEMP. °F.	WIND. Dir.	Wind. Force 0-12.	Weather:	BAROMETER: at M.S.L. mb.	TEMP. °F.	Change in 24 hours.	WIND. Dir.	Wind. Force 0-12.	Weather:	BAROM. at M.S.L. mb.	↓ Change in 8 hours.</													

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 7.12.20.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, misty	Indif.	Slight
2. E. England	Dull.	Good.	"
3. E. Midlands	Dull.	Indif.	-
4. W. Midlands	Dull, misty.	Poor.	-
5. S.W. England	Dull.	Fair.	Slight
6. South Wales	Dull.	Good.	Smooth
7. North Wales	Dull gloomy.	Fair.	Slight
8. N.W. England	Dull local mist.	Indif.	Smooth
9. N. Midlands	Dull.	"	-
10. N.E. England	Dull, local mist and showers	Good.	Slight
11. E. Scotland	Fine to dull, local mist	Indif.	Smooth
12. S.W. Scotland	Dull, fog at Renfrew.	Var.	Slight
13. Isle of Man	Dull.	Fair.	"
14. N. & N.W. Scotland	Fine to cloudy.	"	"
15. Hebrides	Fair to dull.	Good.	Mod.
16. Orkneys and Shetlands	Dull.	Fair.	Slight
17. N.W. Ireland	Fair.	Good.	"
18. N.E. Ireland	Fair to dull, local mist, rain and squalls.	Fair	"
19. S.E. Ireland	Dull, slight local drizzle.	"	Smooth
20. S.W. Ireland	Dull.	Good.	"

Temperature reported from Coastal and Cross Channel Steamers.

Position Number	Date	Time G.M.T.	Sea °F	Air °F
5.	6 th	0820	57	45
7.	7 th	0345	48	46



Barometric change from 4 h. to 7 h. (half millibars).

GENERAL INFERENCE from observations received up to 9h G.M.T.

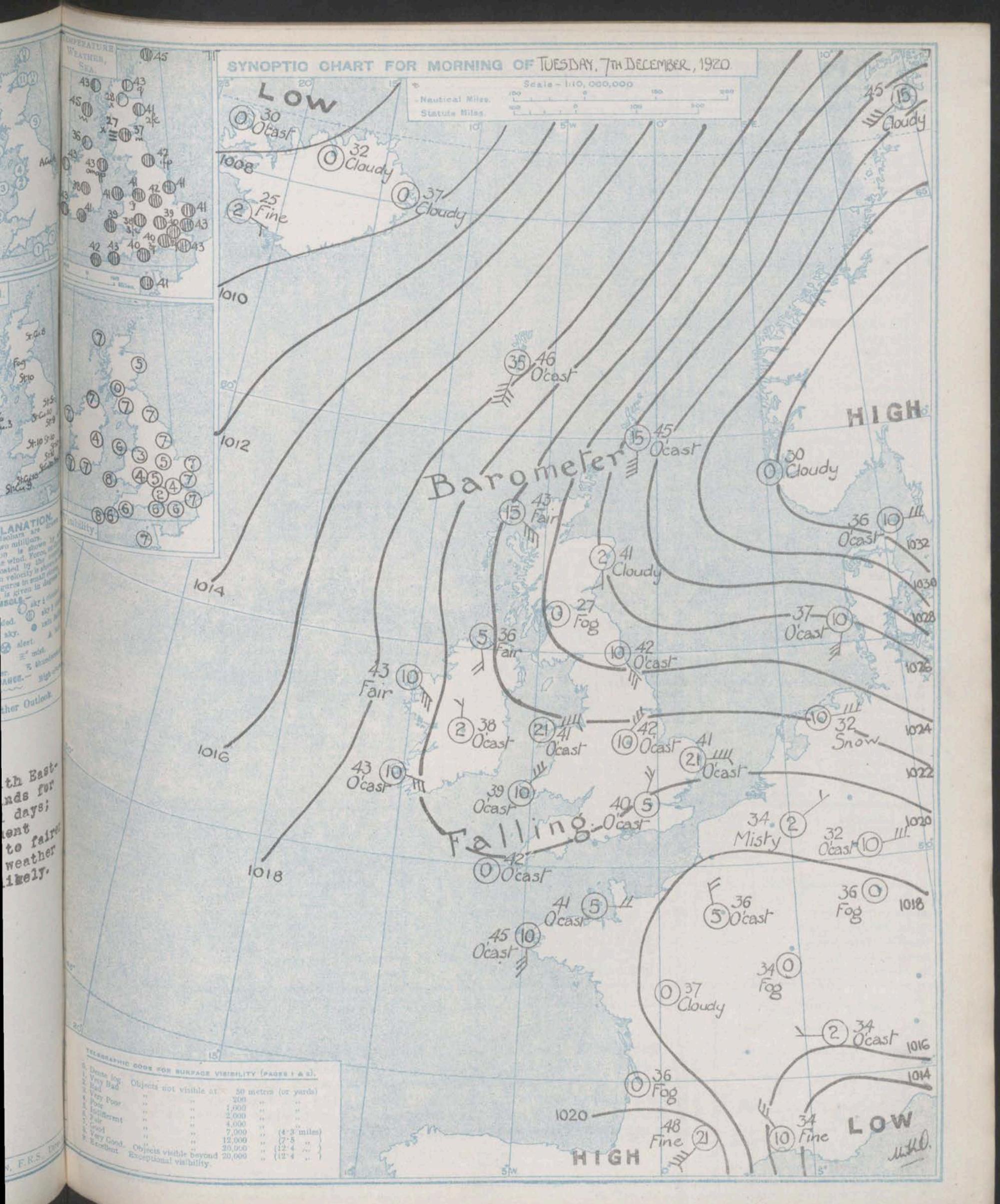
The anticyclone over Scandinavia is moving Northeastward and pressure is decreasing over the British Isles. Except along the North-West coasts winds are likely to continue from North-East or East for some days with rather low temperature and much cloud. Later, a change to fairer and frosty conditions is not unlikely.

Districts.	Forecasts for the 24 hours commencing 15h G.M.T. Tuesday 7th December 1920.
1. S.E. England	
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	Wind North-East or East moderate, fresh locally; mainly overcast, rain or sleet showers; visibility fair to good on coast, some mist inland; cold.
12. S.W. Scotland	
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	Wind Easterly, light or moderate, dull, some rain or sleet; visibility indifferent to fair, local fog; cold.
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	Wind South-East or South moderate; variable sky; visibility fair to good; rather cold.
19. S.E. Ireland	
20. S.W. Ireland	Wind between East and South, light or moderate; cloudy or dull, some rain or sleet; visibility fair; cold.

EXPLANATION.
 BAROMETER.—Isalobars are drawn at intervals of two millibars.
 WIND.—Direction of the wind is shown by a line flying with the wind. Force 0-12 is indicated by the number of feathers. Mean velocity is shown per hour by figures in small circles.
 TEMPERATURE is given in degrees.
 WEATHER SYMBOLS.—
 ☀ clear sky.
 ☁ sky & clouded.
 ⛃ overcast sky.
 ✎ snow.
 ⛈ sleet.
 ⛅ fog.
 ⚡ thunder.
 ⚡ lightning.
 SEA DISTURBANCE.—Rough.

Further Outlook.

Cold with Easterly winds for several days; subsequent change to fairer frosty weather not unlikely.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 342.

Tuesday
7th Dec. 193

STATIONS.	SUMMARIES FOR PART 24 HOURS.										
	WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. in Grass °F.	RAINFALL.		Sun. Hours.	
	7h-18h. 9	18h-18h. 10	18h. 10-1h. 11	1h-7h. 12				Day 7h-18h.	Night 18h-7h		
Renfrew ...	06-8f x	06-8f x	06-8f x	06-8f x	34	26	23	mm.	mm.	0.0	
Eskdalemuir ...	x bc. c	0-0pd. 0-0f	b. bcc. c	b. 0x. c	42	28	25	trace	trace	2.4	
Valencia (Cahirceny)	b. b. bc	b. bc. b. bc	b. bcc. c. o	o	46	33	35	-	-	5.9	
Baldonnel ...	c. o. 0-2f	0-2f	x cat	c. odd. d.	43	33	*	-	-	0.1	
Manchester (Albert Park)	03f	02-02	0-0f p.	0-0f	45	37	33	-	0.1	4	
Ross on Wye ...	01f	01f	0-0f. c. o	0-0f. 3f	42	37	35	-	0.1	0.0	
Falmouth ...	c. 0-1f	0-0f. 0-2f	0	0	48	36	34	-	-	0.4	
Calshot (Hants) ...	0-0f. 0	0-2f g	0-0f	0-0f. 0	43	38	36	-	0.3	0.0	
Lympne (Folkestone)	0-0f. 0-0	b. 0-0f. c. 0	0-0f. 0-0f	0-0f	41	37	36	trace	-	0.3	
Aberdeen ...	0-0f. 0-0f	0-0f p.	2h. 0-0f	0-0f. 2f	44	31	36	0.1	-	0.0	
Howden ...	T. b. c. c	0	b. bcc. d.	0	26.0	37	32	-	1	0.3	
Cranwell (Lincs) ...	c. op.	op. c. op	0-0f p.	0-0f	42	36	31	0.4	2	0.1	
Felixstowe ...	p. o.	p. c. o	0. 0-0f.	0-0f. 0	44	40	*	1	-	0.6	
Shoebury Ness ...	0-0f. 0	0-0. 0-0. 0	p. 0-0	0	43	39	?	1	0.2	0.0	
Benson ...	0	0	b. bcc. p.	0	42	31	24	-	0.4	*	
S. Farnborough ...	c. op. c. o	0. 0. 0-0f	p. 0-0. 0	0-0f. p. 0	41	38	36	0.2	0.3	0.0	
London (Kew Observatory) ...	0-0f. 0-2f	0-2f p.	0-0f	0-0f	42	39	36	-	1	0.0	
Croydon ...	0-0f. 0-0f. 0-0f	0-0f. 0-0f. 0-0f	0-0f. 0-0f. 0-0f	0-0f. 0-0f.	41	39	*	trace	1	*	

BEAUFORT NOTATION.	
b	blue sky (not more than a quarter covered).
bc	sky partly cloudy (one half covered).
c	generally cloudy (three quarters covered).
d	drizzle, or fine rain.
e	wet air without rain falling.
f	fog. g gloom.
h	hail. l lightning.
m	mist. o overcast sky.
p	passing showers.
q	squalls, r rain.
rs	sleet, i.e., rain and snow together.
s	snow. t thunder.
u	ugly, threatening sky.
v	unusual visibility.
w	dew. x hoar frost.
y	dry air; humidity less than 60 per cent.
z	dust haze; the turbid atmosphere of dry weather.

Capital letters indicate intensity, and repetition of letters continuity, thus:

R = heavy rain.
 rr = continuous moderate rain.
 r.r = continuous light rain.

No.	Limits of Velocity at about 30 feet above ground.		Metres per second.
	Statute miles per hour.		
0	Less than 1	Less than 1	0·8-1·5
1	1-3	1·0-2·8	
2	4-7	2·1-5·2	
3	8-12	5·6-7·9	
4	13-18	8·0-10·7	
5	19-24	10·8-12·8	
6	25-31	12·9-17·2	
7	32-38	17·2-23·7	
8	39-46	20·2-26·4	
9	47-54	24·5-28·4	
10	55-65	28·5-32·8	
11	66-75	32·8-38·5	
12	Above 75	33·0 or above	

SOUTH KENSINGTON
(Meteorological Office).

TABLE SHOWING THE GREENWICH TIME OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.			
	7 th + 8 th DECEMBER	1836.	Sunset.
Stations.	Sunrise.	Noon.	G.M.T.
Yarmouth	7.51	11.45	3.39
	7.52	11.45	3.38
Greenwich	7.53	11.52	3.51
	7.54	11.52	3.60
Wick	8.49	12.4	3.19
	8.50	12.4	3.18
Valencia	8.27	12.33	4.23
	8.38	12.33	4.21

Photographic Record of

Pole Star (Polaris) and of 8 Ursae

Minor at Greenwich Observatory

Exposure from 8⁰⁵ to 17 h. 45 m.

Stars.	Duration of Exposure.	Duration of Racing.
Polaris	13. 45	0. 0
δ Ursae Minoris	13. 46	0. 0

NOTES ON THE WEATHER OF YESTERDAY.

Except in Ireland and the North of Scotland where there were from four to six hours of bright sunshine, weather was generally dull and there were slight showers in many localities. Temperature remained rather low, especially at Renfrew where fog persisted all day and temperature did not rise above 34° . At Nairn the maximum was as low as 33° .



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON

BRITISH SECTION.

No. B21566 Wednesday, 8th December 1920

STATIONS.	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 18H AND 24H.																													
	BAROM. at M.S.L. mb.	1 Change in 3 hours.	WIND. Dirac. Force 0-12.	TEMP. °F.	Humid. % 0-9.	Height of Low Cloud. Feet.	Low Cloud.	Upper Cloud	Sea 0-9.	BAROM. at M.S.L. mb.	1 Change in 3 hours.	WIND. Dirac. Force 0-12.	TEMP. °F.	Humid. % 0-9.	Height of Low Cloud. Feet.	Low Cloud.	Upper Cloud	Sea 0-9.												
																	13H. G.M.T. 7 th						18H. G.M.T. OF 7 th							
																	Form.	Amt. 0-10.	Form.	Amt. 0-10.	Form.	Amt. 0-10.	Form.	Amt. 0-10.	Form.	Amt. 0-10.	Form.	Amt. 0-10.		
Renfrew ...																														
Eskdalemuir ...	1012.0	-6	-	0	b6f	57	97	1	-	-	-	-	-	-	-	-	1018.4	-2	NE	1	03f	36	92	3	3,000	St.	10	-	-	
Valencia (Cahircine)	1012.8	-4	NE	2	o	37	85	7	2,000	St.Cu	9	-	-	-	-	-	1018.0	-2	MME	1	o	37	92	6	-	-	10	-	-	
Baldonnel ...	1012.5	-5	SE	3	o	45	75	8	4,200	St.Cu	10	-	-	-	-	-	1013.4	-2	ESE	3	01f	46	75	7	4,200	St.Cu	10	-	-	
Manchester (Wex F.W.)	1017.5	-6	NW	1	b62f	44	85	5	4,200	St.Cu	6	-	-	-	-	-	1015.9	-1	SE	1	c	39	85	5	5,700	St.Cu	8	-	-	
Ross on Wye ...	1018.9	-4	ENE	1	o2f	42	85	4	3,000	Sz	10	-	-	-	-	-	1017.5	0	ESE	1	03f	39	92	3	1,250	Sz	10	-	-	
Falmouth ...	1018.0	-4	ME	2	o2f	40	97	4	2,500	Sz	10	-	-	-	-	-	1017.2	-1	E	1	o2f	39	97	4	750	Sz	10	-	-	
Calshot (Hants) ...	1017.2	-4	MHE	3	o1f	41	85	6	-	St.Cu	10	-	-	-	-	-	1016.0	0	o	o	41	92	4	750	St.Cu	10	-	-		
Lympne (Folkestone) ...	1017.5	-3	MHE	2	o2f	41	97	5	3,000	Sz	10	-	-	-	-	-	1017.4	+2	W	2	o2f	40	97	5	5,700	St.Cu	10	-	-	
Aberdeen ...	1012.4	-5	SE	3	c	43	75	8	3,000	CuCb	8	-	-	-	-	-	1019.3	-3	SE	3	01f	42	85	7	3,000	St.Cu	10	-	-	
Howden ...	1018.9	-4	ME	1	o	42	92	6	4,200	Sz	4	0.5f	6	-	-	-	-	1017.2	-1	-	0	0.5f	39	97	6	3,000	Mb	10	-	-
Cranwell (Lincs) ...	1019.2	-4	NE	1	o7f	41	97	6	1,250	Sz	10	-	-	-	-	-	1018.1	0	ME	1	o6f	39	97	4	1,250	Mb	10	-	-	
Felixstowe ...	1017.8	-3	ME	3	o7f	39	92	6	750	Mb	10	-	-	-	-	-	1017.2	0	ESE	2	o6f	38	97	6	750	Mb	10	-	-	
Shoeburyness ...	1017.0	-3	ME	1	o6f	40	85	6	1,250	Sz	10	-	-	-	-	-	1016.4	-1	-	0	0	38	92	6	1,250	Sz	10	-	-	
Benson ...	1017.2	-3	MHE	2	o	41	92	5	1,250	Sz	10	-	-	-	-	-	1016.5	0	MHE	1	o	38	92	4	-	-	10	-	-	
S. Farnborough ...	1017.6	-4	MHE	1	o2f	41	92	5	1,250	Sz	10	-	-	-	-	-	1016.8	0	-	0	o2f	37	92	5	2,000	Sz	10	-	-	
London (Kew Observatory) ...	1017.4	-4	MHE	2	o2f	42	85	5	1,250	Sz	10	-	-	-	-	-	1016.8	0	M	2	o2f	41	85	4	1,250	Sz	10	-	-	
Croydon ...	1017.7	-3	M	3	o3f	41	85	3	750	Sz	10	-	-	-	-	-	1017.3	0	MHE	2	o7f	39	92	4	750	Sz	10	-	-	
Renfrew ...																														
Eskdalemuir ...	1017.3	0	-	0	o	34	92	6	-	St.Cu	9	-	-	-	-	-	1016.7	0	-	0	o5f	36	97	1	4,500	St.	10	-	-	
Valencia (Cahircine)	1012.4	0	SSe	3	o2f	47	*	*	*	*	*	*	*	*	*	*	1018.1	0	-	0	o6f	23	97	2	750	St.	10	-	-	
Baldonnel ...	1015.3	0	-	0	o5f	37	92	3	750	Sz	10	-	-	-	-	-	1013.7	+2	NNW	3	0	46	78	8	4,200	St.	10	-	-	
Manchester (Lancs) ...	1014.9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.9	0	-	0	bX	29	85	6	-	-	ASy	3	*	*
Ross on Wye ...	1014.9	-1	NNE	2	c	40	92	5	-	St.Cu	8	-	-	-	-	-	1018.2	0	-	0	o3f	36	92	3	3,000	St.Cu	7	-	-	
Falmouth ...	1014.9	-1	NNE	2	c	40	92	5	-	St.Cu	8	-	-	-	-	-	1017.9	+	-	0	o6f	33	97	1	4,500	St.	10	-	-	
Calshot (Hants) ...	1017.3	0	-	0	b	36	97	5	-	-	-	-	-	-	-	1015.2	0	N	2	0	41	92	6	-	St.	10	-	-		
Lympne (Folkestone) ...	1017.3	+	N	-	0	b1f	34	97	6	-	-	-	-	-	-	1018.3	+2	NE	1	o2f	38	97	5	3,000	St.	10	-	-		
Aberdeen ...	1016.7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.6	0	Sy	1	b2f	34	97	4	3,000	St.Cu	1	-	-	
Howden ...	1016.7	0	SW	1	o4f	36	97	2	4,600	Sz	10	-	-	-	-	-	1017.5	+2	-	0	o4f	37	97	3	4,500	St.	10	-	-	
Cranwell (Lincs) ...	1017.6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.4	+2	NSW	1	o6f	36	97	1	4,600	St.	10	-	-	
Felixstowe ...	1017.6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.9	+2	NW	1	o6f	30	97	1	4,500	St.	10	-	-	
Shoeburyness ...	1017.8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1017.8	+	-	0	o3f	38	92	3	2,000	St.Cu	10	-	-	
Benson ...	1017.8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.0	+2	-	0	o3f	28	97	3	-	St.	10	-	-	
S. Farnborough ...	1016.9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.8	+2	-	0	o6f	27	97	1	4,500	St.	10	-	-	
London (M.O. et al.) ...	1016.9	0	-	0	b3f	37	97	3	-	-	-	-	-	-	-	1018.8	+2	WSW	1	o7f	32	92	0	4,500	St.	10	-	-		
Croydon ...	1018.2	0	-	0	o	o	o	o	o	o	o	o	o	o	o	o	1019.0	+	SW	1	o3f	31	97	2	750	St.	10	-	-	
Lerwick ...																														
Stornoway ...	1020.4	43	S	2	bc	1015.9	-3	44	-1	S	3	-	023fp	2	3	46	43	0	o-cp	0.0mp	c.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Castlebay (Barra) ...	1016.3	44	SSW	3	c	1012.8	0	44	H	S	3	-	0	3	45	41	o	bc. b.	0.0	bc. c.	0.0	bc. c.	0.0	bc. c.	0.0	bc. c.	0.0			
Main Head ...	1016.5	45	SE	4	tg	1012.7	0	46	+1	SSN	4	-	op	4	9	46	41	o	T	0pcob	0pcob	0pcob	0pcob	0pcob	0pcob	0pcob	0pcob	0pcob		
Black sod Point ...	1011.4	40	S	2	o	1012.5	0	39	+3	S	3	S	c	2	-	44	34	o	om.	0	bc. c.	0.0	bc. c.	0.0	bc. c.	0.0	bc. c.	0.0		
Roche's Point ...	1012.8	44	SE	3	bc	1013.4	+6	45	+2	NW	2	-	01623f	2	2	45	42	o	bc.	0	bc.	0	bc.	0	bc.	0	bc.	0		
Birr Castle ...	1015.4	45	SE	3	o	1015.1	0	47	+6	S	2	-	0	2	2	47	40	o	03.	03.	03.	03.	03.	03.	03.	03.	03.			
Donaghadee ...	1015.0	36	S	1	o	1012.2	*	40	+2	S	1	-	0	0	2	40	33	f.o	f.o	f.o	f.o	f.o	f.o	f.o	f.o	f.o				
Liverpool (Bidston) ...	1016.3	40	-	0	o	1016.6	+	33	-8	SE	2	-	f	2	-	42	32	ogm.	ogm.	ogm.	ogm.	ogm.	ogm.	ogm.	ogm.	ogm.				
Holyhead ...	1016.2	43	E	3	o2	1016.6	H	41	0	SSE	3	-	o2f	1	-	43	38	o-cg	og	og	og	og	og	og	og	og				
Pembroke (St. Ann's Head) ...	1016.1	41	EHE	2	o1fg	1016.7	0	42	+3	ENE	4	-	o3	2																

Information for these columns not available

^a The barometric change is expressed in half millibars.

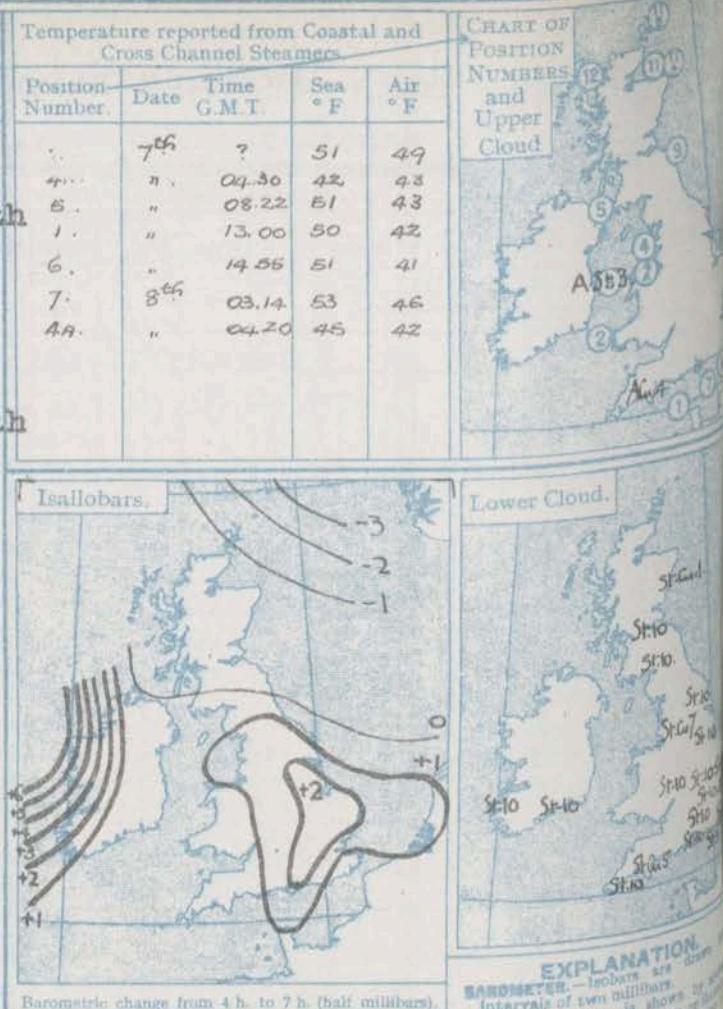
For code see page 3

[†] See footnote p. 2.

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 8. 12. 20.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, some mist or fog	Var.	Smooth
2. E. England	Fair to dull, local mist or fog	Poor.	V Smooth
3. E. Midlands	Dull, some mist or fog.	Bad.	-
4. W. Midlands	Dull, some mist or fog	"	-
5. S.W. England	Dull.	Fair	Smooth
6. South Wales	Dull, local mist.	Fair	"
7. North Wales	Dull, local mist.	"	V Smooth
8. N.W. England	Dull, some mist or fog	V. Poor	Smooth
9. N. Midlands	Dull, mist or fog.	"	-
10. N.E. England	Dull, mist or fog.	Poor	Smooth
11. E. Scotland	Fair or fine, misty.	Poor	Slight
12. S.W. Scotland	Dull, some fog.	Bad.	Smooth
13. Isle of Man	Cloudy or dull, some mist	Indif.	"
14. N. & N.W. Scotland	Fine to cloudy.	"	Slight
15. Hebrides	Dull, local showers.	Good.	"
16. Orkneys and Shetlands	Dull, misty, showery.	V. Poor	Smooth
17. N.W. Ireland	Dull, local mist and slight rain.	Indif.	"
18. N.E. Ireland	Cloudy, local mist.	Fair.	"
19. S.E. Ireland	Fine to dull.	"	"
20. S.W. Ireland	Dull.	Good	"

GENERAL INFERENCE from observations received up to 9h G.M.T.
The British Isles will probably be between two anticyclones for the next day or two and in consequence the wind will be light. The weather will be fair to dull and cold with local showers over the Western districts and much fog inland.



EXPLANATION.

SANDOMETER.—Isobars are drawn at intervals of two millibars.

WIND.—Direction is shown by flying with the wind. Force of wind is indicated by the feathers. Mean velocity is shown per hour by figures in small circles.

TEMPERATURE is given in degrees Fahrenheit.

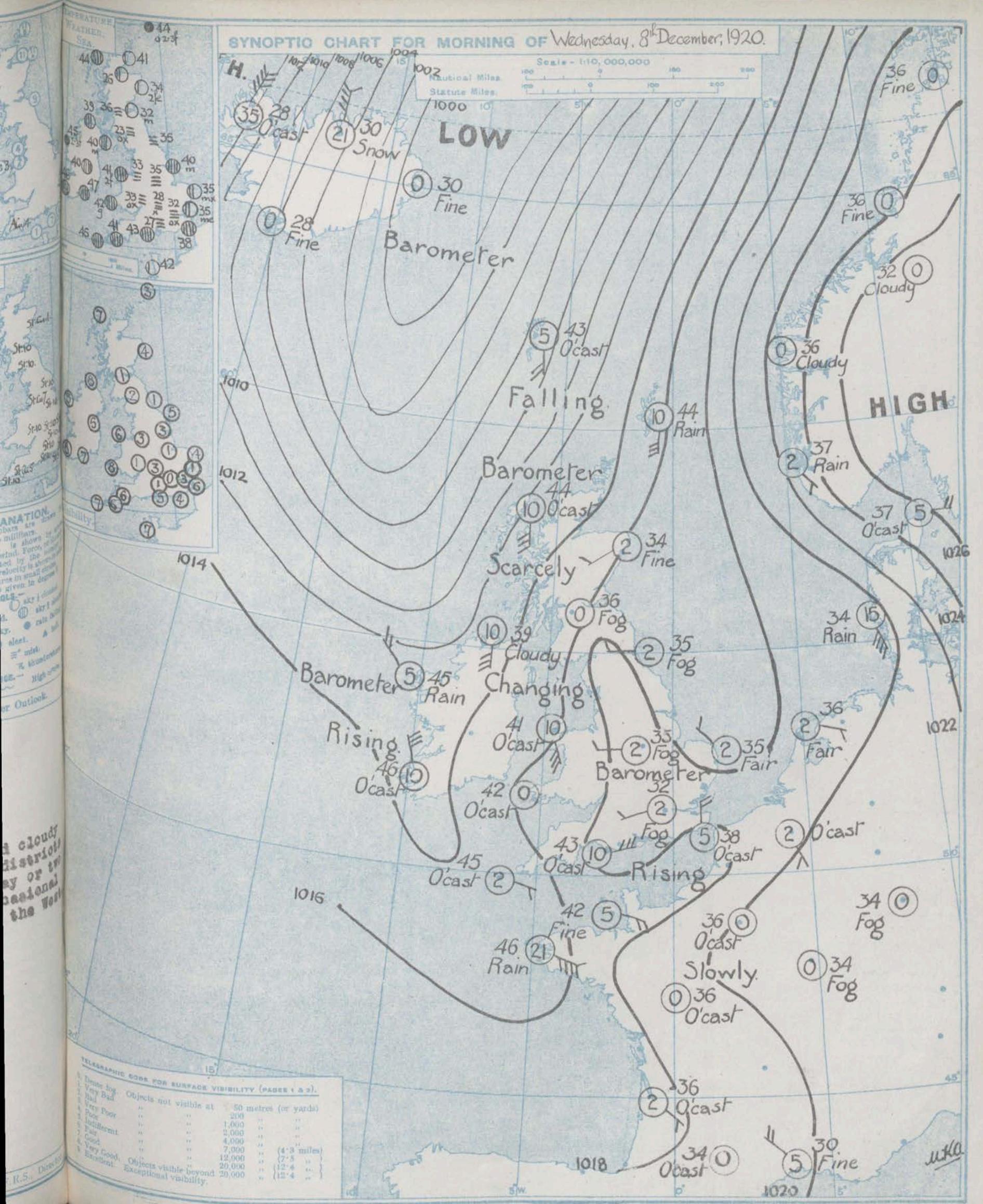
WEATHER SYMBOLS:

- clear sky.
- ① sky + cloudy.
- ② sky + clouded.
- ③ overcast sky.
- * snow.
- fog.
- ④ thunder.
- SEA DISTURBANCE.—
- Mesoh. High seas.

Karhier Options

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Wednesday 8th December 1920.
1. S.E. England	Wind light and indefinite; fair to dull, clouds rather low; fog inland; cold.
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	
7. North Wales	Wind light and indefinite; mainly dull, clouds rather low; local drizzle on the coast; fog inland; cold.
8. N.W. England	
9. N. Midlands	
10. N.E. England	Same as 1 & 4.
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	
14. N. & N.W. Scotland	Light to moderate Southerly wind, veering to W or NW later; much low cloud, some showers; visibility good; rather cold.
15. Hebrides	
16. Orkneys and Shetlands	Light to moderate Southerly wind veering to SW; much low cloud, some showers; visibility improving; rather cold.
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	Wind light and indefinite; much low cloud, local showers; some mist or fog inland; rather cold.

Cold and cloudy
in all districts
for a day or two
with occasional
rain in the West



AIR MINISTRY.
DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 343

Wednesday
8th Dec 1920

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 7 th																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h.	Day 19h-20h.	Sunrise to Sunset 7h-7h.	6h-7h.			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h.	Day 19h-20h.	Sunrise to Sunset 7h-7h.	6h-7h.
Scotland.	Oban	c.	bc	48	30	-	-	27	7	England, N.W.	Douglas (I.O.M.)	o	o	42	38	-	-	00	00
	Banff	cp	pc	38	28	-	1	01	7		Blackpool	o	o	41	37	2	-	00	00
	Montrose	...	...	...	...	...	...	...	7		Southport	o	o	41	38	-	-	00	00
	St. Andrews	...	...	...	...	...	...	...	7		Morecambe	o	o	43	38	-	-	00	00
England, N.E.	Harrogate	o	o	39	36	2	-	00	7	Midlands.	Buxton	...	...	42	35	01	-	00	00
	Scarborough	o	o	45	40	3	1	00	7		Leamington Spa	o	o	40	36	-	-	00	00
	Skegness	op	op	44	40	2	01	00	7		Malvern	mc	o bc	41	34	-	-	00	00
	Loveshall	...	...	...	...	...	...	...	7		Bath	o	o	41	34	-	-	00	00
England, S.E.	Felixstowe	omd	omr	42	39	04	2	00	7	Wales.	Rhyl	o	o	41	37	2	-	00	00
	Southend-on-Sea	op	o	41	36	-	3	00	7		Colwyn Bay	o	x	41	37	2	-	00	00
	Tunbridge Wells	o	o	41	37	03	1	00	7		Llandudno	x	x	43	38	1	-	00	00
	Margate	op	op	40	37	1	1	00	7		Aberystwyth	o	o	44	36	-	-	00	00
England, S.E.	Ramsgate	o	o	44	37	-	2	00	7		Tenby	...	...	...	...	...	...	00	00
	Folkestone	o	o	44	38	4	03	00	7		Swansea	...	...	...	...	...	...	00	00
	Hastings	o	o	41	38	trace	1	00	7	England, S.W.	Weymouth	o	o	42	38	-	-	00	00
	Eastbourne	op	o	47	39	-	2	00	7		Teignmouth	...	...	...	...	...	...	00	00
England, S.E.	Brighton	o	o	43	39	-	-	00	7		Torquay	o	o	43	36	-	-	00	00
	Worthing	o	o	43	39	-	-	00	7		Paignton	om	o bm	44	35	-	-	00	00
	Littlehampton	o	bc	44	38	02	-	00	7		Penzance	og	og	44	38	-	-	00	00
	Portsmouth (S'thao)	o	o	43	39	04	-	00	7		Newquay	om	omg	42	32	-	-	00	00
England, S.E.	Bournemouth	*	*	41	38	03	-	00	7		Bude	wx co	c	39	30	-	-	00	00
	*	*	*	41	38	03	-	00	7		Ilfracombe	o	o	42	40	-	-	00	00
	*	*	*	41	38	03	-	00	7		Weston-s-Mare	o	om	42	35	-	-	00	00

STATIONS.		SUMMARIES FOR PAST 24 HOURS.									
		WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	RAINFALL.		Hours.
7h-18h.	18h-19h.	18h-19h.	1h-7h.	1h-7h.	1h-7h.	1h-7h.	1h-7h.	1h-7h.	Day, 7h-18h.	Night, 18h-7h.	mm.
Renfrew	ob-8f	o-8f	o-8f	o-8f	o-8f	37	25	19	-	-	0.0
Eskdalemuir	bc-c.co	o	o	o	o	38	23	18	-	-	15
Valencia (Cahirc'n)	o	o	o	o	o	47	43	43	-	15	0.0
Baldonnel	o	o	o	o	o	46	28	21	-	-	23
Manchester (Alex.PK)	o	o	o	o	o	43	36	26	-	-	8
Ross on Wye	2f-pd	9.02f	9.02f	o	o	40	33	28	0.1	trace	0.0
Falmouth	o	o	o	o	o	42	35	36	-	4	0.0
Calshot (Hants)	o	o	o	o	o	42	33	29	trace	-	0.0
Lympne (Folkestone)	o	o	o	o	o	39	33	29	0.2	trace	0.0
Aberdeen	c.o	c.o	c.o	c.o	c.o	43	34	30	1	0.4	0.1
Howden	pdo	o	o	o	o	42	34	29	-	F	0.0
Cranwell (Lincs)	s.o	o	o	o	o	41	33	34	0.4	0.4	0.0
Felixstowe	o	o	o	o	o	43	29	2	0.3	0.0	0.0
Shoebury Ness	o	o	o	o	o	43	33	2	0.1	0.0	0.0
Benson	o	o	o	o	o	42	27	25	-	0.1	%
S. Farnborough	o	o	o	o	o	41	26	27	0.1	0.2	0.0
London (Kew Obsy.)	o	o	o	o	o	42	32	28	trace	-	0.0
Croydon	o	o	o	o	o	42	31	26	-	*	0.0

LONDON. OBSERVATIONS.	WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rain-fall.	Sunshine to Sunset Hours.	HUMIDITY %	SOUTH KENSINGTON (Meteorological Office).	
	Morning.	Afternoon.								
			41	36	33	1	0.0	86	94	
			41	36	33	1	0.0	*	*	
			41	36	34	1	0.0	83	94	
			41	36	34	1	0.0	88	98	
			41	36	34	1	0.0	92 (18h)	97	
			41	36	34	1	0.0	*	96	

Photographic Record of

Pole Star (Polaris) and of δ Ursae

Minoris at Greenwich Observatory.

Exposure from 7h...17h. 2. m.
to 8h...6 h. 45 m.

Start. Duration of Exposure. Duration of Record.

Polaris 13. 45 0. 0 0

δ Ursae Minoris 13. 45 0. 0 0

NOTES ON THE WEATHER OF YESTERDAY.

Maximum temperatures did not exceed 45° and at night sharp frost occurred, the minimum at Eskdalemuir being 25° and at South Farnborough 26°. Rain fell in many places, 15mm at Valencia and 9mm at Castlebay being the largest amounts. Fog formed during the night over practically the whole of England.

* Information for these columns not usually received.

† Trace = rain has fallen but amount less than 0.1 mm.

THE BEAUFORT SCALE OF WIND FORCE.	
Used only for surface observations.	
limits of velocity at about 30 feet above ground.	
No.	Statute miles per second.
0	Less than 1
1	1-3
2	4-7
3	8-12
4	12-18
5	18-24
6	24-31
7	32-38
8	38-46
9	47-54
10	55-63
11	64-75
12	Above 75

SYMBOLS-	
Aurora	Δ Solar halo
Rime	□ Lunar halo
Glazed frost	~ Solar corona
Glazed roads	○ Lunar corona

TABLE SHOWING THE GREENWICH TIME OF SUNRISE, NOON AND SUNSET FOR STATION IN THE UNITED KINGDOM.	

<tbl_r cells="2" ix="4" maxcspan="1" maxrspan="1" usedcols="



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B 21567 Thursday 9th December 1920.

STATIONS.	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, TH, 15H AND 18H.																													
	BAROM. at M.S.L. mb.	Wind. Dir. Force 0-12.	Temp. °F.	Humidity %	Visibility 0-6.	Height of Low Cloud. Feet.	Low Cloud. Form.	Upper Cloud. Form.	Sea 0-9.	BAROM. at M.S.L. mb.	Wind. Dir. Force 0-12.	Temp. °F.	Humidity %	Visibility 0-6.	Height of Low Cloud. Feet.	Low Cloud. Form.	Upper Cloud. Form.	Sea 0-9.												
18H. G.M.T. 9 th																														
Renfrew ...	1017.8	0	N	1	o	34	97	2	750	St.	7	Acu	2	8	1019.3	+3	WSW	3	b2f	41	82	5	1250	St.	2	-	-	-		
Eskdalemuir ...	1019.1	+1	SSE	1	C2f	33	85	3	1250	St.	3	Cu	5	4	1020.5	+2	-	0	03f	35	92	3	-	Sk.	10	-	-	-		
Valencia (Cahircra)	1019.9	+4	N	2	O	46	85	3	1250	ScCu	7	ASh	3	4	1023.7	+5	NNW	2	c	46	85	8	2000	ScCu	4	Ash	3	4		
Baldonnel ...	1018.8	+2	S	1	o1f	40	85	6	4750	ScCu	6	RSh	4	8	1022.1	+4	W	2	02f	40	97	4	1250	St.	10	-	-	-		
Manchester (Alex Pa)	1019.6	+1	NE	1	o7fc	34	97	0	<600	St.	10	-	-	8	1021.6	+2	-	0	07f	34	92	0	1250	St.	10	-	-	-		
Ross on Wye ...	1019.9	0	E	1	o5f	32	97	1	6500	St.	10	-	-	8	1021.9	+3	-	0	05fc	33	97	1	1250	St.	10	-	-	-		
Falmouth ...	1017.2	?	SSE	2	O	47	85	6	-	NB	10	-	-	8	1019.9	+3	SSW	2	05	45	92	5	-	CuN	10	-	-	-		
Calshot (Hants) ...	1019.9	+1	E	2	o2f	44	92	4	3000	ScCu	4	ACu	6	10	1022.2	+3	E	1	b2f	41	97	4	-	-	-	-	0	-	-	
Lympne (Folkestone)	1019.9	0	NE	1	O	41	95	5	1250	St.	10	-	-	8	1021.9	+3	NNW	3	0mrv	36	97	3	1250	St.	10	-	-	-		
Aberdeen ...	1016.4	-1	SSW	1	b3fe	38	92	3	3000	ScCu	1	-	-	3	1016.7	0	SSW	3	03f	38	95	3	3000	ScCu	10	-	-	3		
Howden ...	1019.7	+1	-	0	o2f	38	92	3	750	St.	8	CSh	2	8	1021.5	+2	-	0	0fx	30	97	1	1250	St.	10	-	-	-		
Cranwell (Lincs) ...	1021.0	+3	W	1	bc	40	92	4	1250	ScCu	3	Cu	3	8	1022.7	+3	W	1	c4f	30	97	2	1250	St.	8	-	-	-		
Felixstowe ...	1021.0	+1	NNW	1	o7f	35	97	0	<600	St.	10	-	-	8	1022.7	+3	NW	2	07f	33	97	0	1250	St.	10	-	-	-		
Shoeburyness ...	1020.4	+2	NE	1	bc1/4e	40	85	6	-	-	-	ACu	4	8	1023.6	+3	-	0	b6fe	31	95	1	-	-	-	-	5	-	-	
Benson ...	1020.1	0	-	0	3f	35	97	2	-	-	-	-	-	8	1022.7	+2	-	0	06f	30	97	1	-	-	-	0	-	-		
S. Farnborough	1020.4	+1	-	0	o4f	33	95	2	<600	St.	10	-	-	8	1022.8	+3	-	0	04fe	30	97	2	1250	St.	10	-	-	-		
London (Kew Bay.)	1020.4	0	W	1	o3f/w	37	97	1	750	St.	10	-	-	8	1022.9	+3	-	0	07f/w	36	97	0	1250	St.	10	-	-	-		
Croydon ...	1020.7	+1	-	0	o7f	35	97	0	<600	St.	10	-	-	8	1023.3	+3	-	0	07fe	35	97	0	1250	St.	10	-	-	-		
1H. G.M.T. of 9 th																														
Renfrew ...	1023.3	+2	SE	1	o4fe	31	97	2	750	St.	10	-	-	8	1024.2	+3	SW	1	b2f	36	92	4	3000	St.	2	-	-	-		
Eskdalemuir ...	1022.5	+2	NNW	3	zc	41	92	6	-	-	-	-	-	8	1025.0	H	SW	3	b6f~	34	92	7	-	St.	6	-	-	4		
Baldonnel ...	1022.2	+2	-	0	b	35	92	6	-	-	-	-	-	8	1028.2	H	NE	1	b	38	92	8	3000	St.	3	-	-	-		
Manchester (Alex Pa)	1022.8	+	NNW	1	O	45	92	6	-	St.	9	-	-	8	1026.7	+3	SSE	1	07f	31	97	0	1250	St.	2	-	-	-		
Ross on Wye ...	1022.8	+1	NNW	1	O	45	92	6	-	St.	9	-	-	8	1025.1	+2	W	1	b4fx	31	97	2	1250	St.	4	-	-	-		
Falmouth ...	1022.8	0	NNW	1	oaf	36	97	3	2000	St.	9	-	-	8	1026.0	+2	N	2	bc	41	97	7	-	St.	6	-	-	-		
Calshot (Hants) ...	1023.7	0	NNW	1	oaf	36	97	1	<600	St.	10	-	-	8	1024.5	H	NNW	2	b6f	35	97	6	2000	St.	6	-	-	-		
Lympne (Folkestone)	1023.1	H	NE	4	o7sf	30	97	1	<600	St.	10	-	-	8	1023.5	H	N	3	osf	32	97	1	1250	St.	10	-	-	-		
Aberdeen ...	1023.5	*	*	2	O	07fe	31	97	0	<600	St.	10	-	-	8	1022.2	+3	W	1	baf	36	92	5	-	-	-	-	2	-	-
Howden ...	1023.1	O	H	1	o2c	27	97	2	<600	St.	10	-	-	8	1026.2	+3	-	0	0fe	28	97	0	1250	St.	10	-	-	-		
Cranwell (Lincs) ...	1023.5	H	NNW	2	b3f	30	97	3	-	-	-	-	-	8	1024.9	+1	NH	3	c3f	31	97	2	1250	St.	6	A.Cu	2	0		
Felixstowe ...	1023.1	*	*	*	*	*	*	*	*	*	*	*	*	8	1028.9	+1	NN	3	b6c	29	97	3	-	-	-	-	0	ASh	2	0
Shoeburyness ...	1023.5	*	*	*	*	*	*	*	*	*	*	*	*	8	1023.7	O	-	0	b6xc	27	76	5	-	-	-	-	0	CIST	1	0
Benson ...	1023.5	*	*	*	*	*	*	*	*	*	*	*	*	8	1024.3	+1	N	1	b3fc	29	97	3	-	St.	5	-	-	-		
S. Farnborough	1023.5	*	*	*	*	*	*	*	*	*	*	*	*	8	1025.1	+2	-	0	b3f	29	97	2	1250	St.	3	-	-	-		
London (K. at 1H)	1023.5	H	NNW	1	o5fe	33	97	1	<600	St.	10	-	-	8	1024.8	H	N	3	osf	32	97	1	1250	St.	10	-	-	-		
Croydon ...	1023.1	O	NNW	1	o5fe	35	97	1	<600	St.	10	-	-	8	1025.2	O	-	0	0fe	32	97	1	1250	St.	10	-	-	-		
STATIONS CONTRIBUTING REPORTS AT TH AND 15H.																														
STATIONS.	BAROM. at M.S.L. mb.	TEMP. °F.	Wind. Dir. Force 0-12.	Weather.	M.B.	BAROMETER.	TEMPERATURE.	Wind.	Dir. Force 0-12.	Wind. Dir. Force 0-12.	Weather.	Sea	Rainfall mm.	+	TRNF.	WEATHER.	24 HOURS ENDED 7H. 9 th													
	mb.	°F.	Dir.	Force 0-12.	M.S.L. mb.	mb.	Change in 3 hours.	Temp. °F.	Change in 24 hours.	Dir.	Force 0-12.	Sea	mm.	0-9.	Max. °F.	Min. °F.	Morning.	Afternoon.	Night.	Sunshine Hours.										
Lerwick ...	1013.0	45	S	3	bcm	1014.1																								

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 9. 12.20.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.	Temperature reported from Coastal and Cross Channel Steamers.			
				Position Number	Date	Time G.M.T.	Sea °F Air °F
1. S.E. England	Fine to dull, mist or fog	Bad	Smooth	5	84	0249	46
2. E. England	Fine to cloudy, misty.	V. Poor	"	7	94	0348	47
3. E. Midlands	Fair generally, mist or fog.	"	-				
4. W. Midlands	Mainly fine, mist or fog	"	-				
5. S.W. England	Fair to cloudy, slight local mist.	Good.	Smooth				
6. South Wales	Cloudy, local mist.	Fair.	"				
7. North Wales	Fine.	Good.	Slight				
8. N.W. England	Fine to dull, mist or fog	V. Poor	Smooth				
9. N. Midlands	Dull foggy.	V. Bad	-				
10. N.E. England	Fine to dull, mist or fog	Poor	Smooth				
11. E. Scotland	Fair or fine, local mist	Indif.	Smooth				
12. S.W. Scotland	Fair or fine, local mist	Fair.	"				
13. Isle of Man	Fine.	Good.	"				
14. N. & N.W. Scotland	Fine.	Indif.	"				
15. Hebrides	Fine in North, dull in South	Good.	"				
16. Orkneys and Shetlands	Fine.	Poor.	"				
17. N.W. Ireland	Fair.	Indif.	"				
18. N.E. Ireland	Fine to cloudy, local mist.	Good.	"				
19. S.E. Ireland	Fair or fine.	"	"				
20. S.W. Ireland	Fine.	"	"				



Barometric change from 4 h. to 7 h. (half millibars).

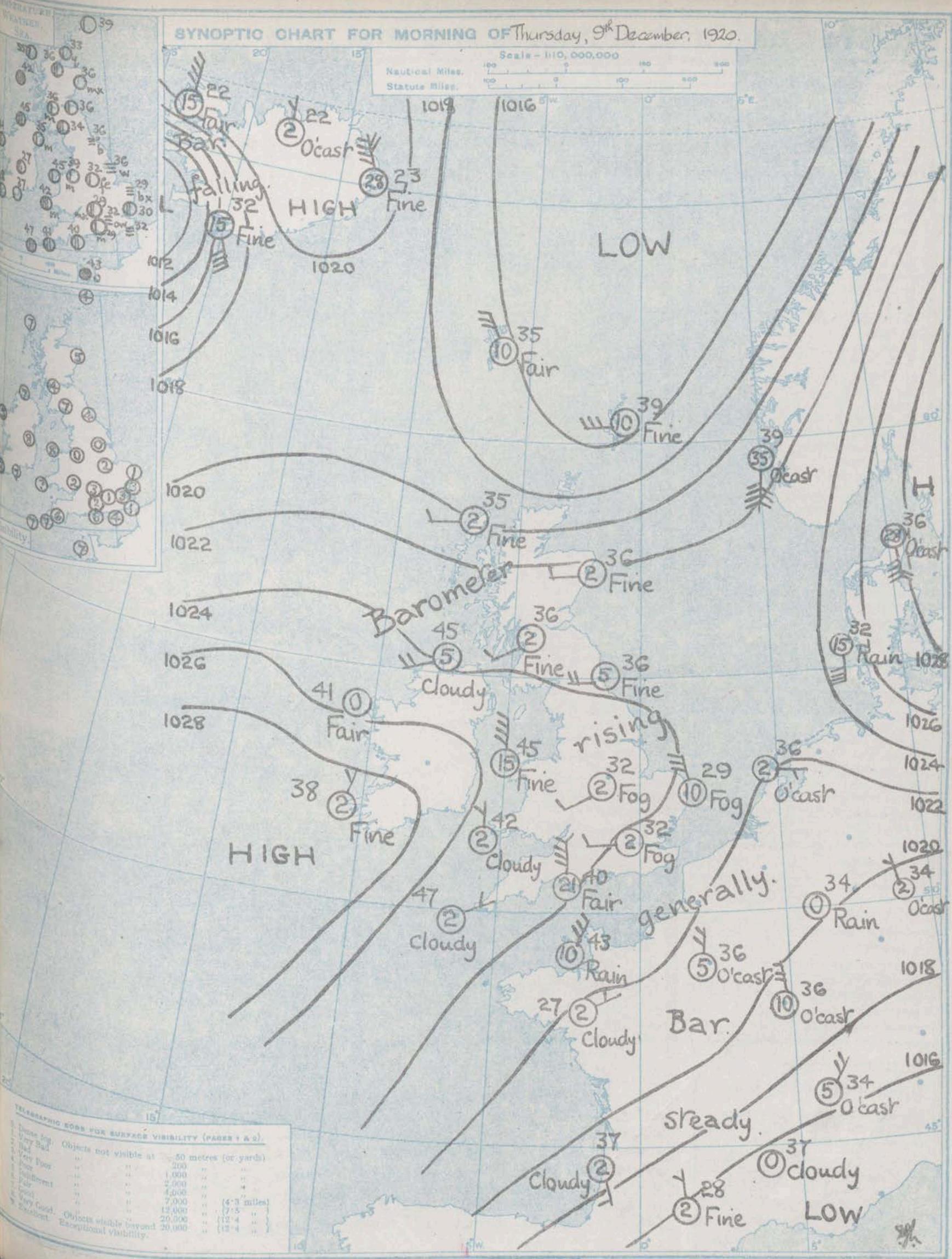
GENERAL INFERENCE from observations received up to 9h. G.M.T.

The anticyclone still persists in the Baltic region while another anticyclone is extending over the British Isles from the Atlantic. A depression which has begun to encroach on Iceland will probably move North-Eastward. A low temperature appears likely in this country for some days, with mainly fair, but sometimes misty or foggy, weather.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Thursday 9th December, 1920.
1. S.E. England	
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	Wind mainly from North or North-East, light; some mist or fog, principally inland, otherwise fair. Visibility variable; temperature low, frost at night.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	Wind mainly between West and North-West, light, moderate locally. Fair generally but some local mist or fog. Visibility mainly fair or good. Temperature rather low; frost at night.
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	Wind between North-West and North-East, light. Fair or fine. Visibility fair to good. Temperature low, frost at night.
20. S.W. Ireland	



A spell of cold and generally fair weather is probable over the British Isles.



DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. NO. 344.

Thursday
9th December

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR																				
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h.	Day 19h-20h.	Sunrise to Sunset.	7-8			Max. °F.	Min. °F.	Night 18h-19h.	Day 19h-20h.	Sunrise to Sunset.	7-8	8	7-8	8
Scotland.	Oban	b	po	42	35	-	0.3	0.0		England, N.W.	Douglas (L.O.M.)									
	Banff	b	bccop	32	30	-	0.1	3.9			Blackpool									17
	Montrose	=	f	38	30	3	-	0.0			Southport									0.3
	St. Andrews	=	f	38	30	3	-	0.0			Morecambe									
England, N.E.	Harrogate	com	bcbm	39	34	-	-	0.0		Midlands.	Buxton									3.5
	Scarborough	bc	bc	44	36	-	-	1.0			Leamington Spa									0.0
	Skegness	om	omfe	40	34	0.2	0.1	0.0			Malvern									2.1
	Lowestoft										Bath									
England, S.E.	Felixstowe	bcf	of	38	28	33	1	-	1.3	Wales.	Rhyl									
	Southend-on-Sea	opcm	fe	39	31	0.2	-	0.4			Colwyn Bay									3.5
	Tunbridge Wells	ocf	cot	39	29	-	-	1.0			Llafadudno									2.2
	Margate	o	e	42	37	-	-	0.0			Aberystwyth									0.0
England, S.W.	Ramsgate	*	*	43	36	0.2	-	0.0		England, S.W.	Tenby									
	Folkestone	c	o	43	37	-	-	0.0			Swansea									2.7
	Hastings	bc	bcbf	42	34	trace	-	3.5			Weymouth									
	Eastbourne	bc	bc	40	31	0.1	-	5.2			Teignmouth									
England, S.E.	Brighton	b	b	43	32	1	-	3.9			Torquay									
	Worthing	b	b	42	30	-	-	5.0			Paignton									
	Littlehampton	b, bc	bcm	42	29	-	-	4.2			Penzance									
	Portsmouth (Sides)	-	-	45	34	-	-	0.8			Newquay									
England, S.E.	Bournemouth	*	*	43	31	-	-	0.0			Bude									
											Ilfracombe									
											Weston-s-Mare									

STATIONS.		SUMMARIES FOR PAST 24 HOURS.								RAINFALL. †	Sun. Hours.	BEAUFORT NOTATION.								THE BEAUFORT SCALE OF WIND FORCE.
		7h-18h. 5	18h-19h. 5	18h 5-19h. 5	19h 5-1h. 5	1h-7h. 5	Max. Temp. °F.	Min. Temp. °F.	Min. on Glass. °P.			b	blue sky (not more than a quarter covered).	bc	sky partly cloudy (one half covered).	c	generally cloudy (three quarters covered).	d	drizzle, or fine rain.	
Renfrew	04-5fx	04-5fpo	b, bccp	b, bccp, 42	32	24	mm.	1	0.2	0.0.										
Eskdalemuir	3.5-3fc0	3.0-2f	b, 0.3fc	b, 0.3fc	36	23	26	-	0.4	0.2										
Valencia (Cahiro'n)	5.0	0.0	0.0, bcc	0.0, bcc	47	33	30	1	-	0.0										
Baldonnel	bbcifc04	dd, 0.3f	dd, 0.3f	dd, 0.3f	42	24	02	1	-	0.0										
Manchester (Alex. Park)	b, bcc, 0.5-1.5fc	0.5-1.5fc	0.5-1.5fc	0.5-1.5fc	41	29	20	-	0.1	0.0										
Ross on Wye	5.5-6.5fc	5.5-6.5fc	5.5-6.5fc	5.5-6.5fc	39	27	trace	1	-	0.0										
Falmouth	5.0	0.0	0.0	0.0	47	39	33	5	0.2	0.0										
Calshot (Hants)	0.5-1.5fc	b, bcc, 2f	b, bcc, 2f	b, bcc, 2f	45	34	26	-	-	0.2										
Lympne (Folkstone)	0.5-1.5fc	0.5-1.5fc	0.5-1.5fc	0.5-1.5fc	41	28	25	-	0.1	0.1										
Aberdeen	3.5-4.5fc	3.5-4.5fc	3.5-4.5fc	3.5-4.5fc	39	33	26	-	-	2.8										
Howden	0.5-1.5fc	0.5-1.5fc	0.5-1.5fc	0.5-1.5fc	42	28	22	-	-	0.0										
Cranwell (Lines)	4.5-5fc	4.5-5fc	4.5-5fc	4.5-5fc	40	26	22	0.1	-	1.7										
Felixstowe	4.5-5fc	4.5-5fc	4.5-5fc	4.5-5fc	38	29	4	0.1	-	0.6										
Shoebury Ness	4.5-5fc	4.5-5fc	4.5-5fc	4.5-5fc	41	26	4	-	trace	2.2										
Benson	4.5-5fc	4.5-5fc	4.5-5fc	4.5-5fc	37	27	22	-	0.1	0.1										
S. Farnborough	0.5-1.5fc	0.5-1.5fc	0.5-1.5fc	0.5-1.5fc	33	26	25	0.1	0.1	0.0										
London (Kew Observatory)	0.5-1.5fc	0.5-1.5fc	0.5-1.5fc	0.5-1.5fc	37	31	32	0.002	-	0.0										
Croydon	0.5-1.5fc	0.5-1.5fc	0.5-1.5fc	0.5-1.5fc	36	31	4	-	-	*										

LONDON OBSERVATIONS.		WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Glass. °P.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity %	SOUTH KENSINGTON (Meteorological Office)		TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.							
		Morning.	Afternoon.									G.M.T.	9h G.M.T.						
Grenwich (Royal Observatory)	Fg	Fg	1/5	38	28	29	-	0.0	99	94									
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*									
Westminster (St. James's Park)	*	*	2	41	32	28	-	0.0	92	99									
Regent's Pk. (Botanical Gdns.)	*	*	*	*	*	*	*	0.0	K	4									
Camden Sq. (British Railways)	0.5m	0.5m	1/5	38	31	27	-	*	98	94									
Kensington Palace	of	f	*	38	29	22	-	*	95 (BB)	93									
Hampstead Observatory	*	*	*	37	27	25	trace	0.0	*	?									
Photographic Record of		NOTES ON THE WEATHER OF YESTERDAY.																	
Pole Star (Polaris) and of 8 Ursae Minoris at Greenwich Observatory.		Temperature remained below 40° at some Northern, Eastern and South-Eastern stations. Frost occurred at night at most inland and at several coast stations. Rain fell over the greater part of the Kingdom, the quantity being slight generally, but 9mm at Lerwick and 13mm at Stromness. Sunshine was high for the time of the year at some stations in the South and																	



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON

BRITISH SECTION.

No. B.21,568 FRIDAY, 10TH DECEMBER, 1920

Information for these columns not usually received

The barometric change is expressed in half millibars.

§ For code see page 3

7 See footnote p. 4.

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 10.12.1920.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.	Temperature reported from Coastal and Cross Channel Steamers.				
				Position-Number	Date	Time G.M.T.	Sea. °F	Air. °F
1. S.E. England	Fine, frosty, local fog.	Poor	Smooth	12.	9 th	05.15	57.	44
2. E. England	Fair, misty, frosty.	Indiff.	V. Smooth	5.	"	09.40	50	47
3. E. Midlands	Dull, frosty.	"	-	6.	"	14.45	51	44
4. W. Midlands	Dull, foggy.	Dense fog. -		7.	10 th	03.02	63	44
5. S.W. England	Fine, frosty.	Good	Smooth	8.	"	05.12	49	44
6. South Wales	Dull.	Excellt.	V. Smooth					
7. North Wales	Dull, gloomy.	Good	Calm					
8. N.W. England	Dull, foggy.	V. Bad	V. Smooth					
9. N. Midlands	Cloudy, frosty.	Good	-					
10. N.E. England	Fair to dull, misty.	Indiff.	Slight					
11. E. Scotland	Dull, foggy.	Poor	Smooth					
12. S.W. Scotland	Dull, misty.	"	V. Smooth					
13. Isle of Man	Fair to dull, misty.	Fair	"					
14. N. & N.W. Scotland	Fair to dull.	Indiff.	Smooth					
15. Hebrides	Fair to showery.	Poor	"					
16. Orkneys and Shetlands	Fair.	Good	Smooth					
17. N.W. Ireland	Fair.	"	V. Smooth					
18. N.E. Ireland	Fair, misty.	Good	Smooth					
19. S.E. Ireland	Fine, frosty.	Poor	"					
20. S.W. Ireland	Fair.	V. Good	-					



Barometric change from 4 h. to 7 h. (half millibars).

GENERAL INFERENCE from observations received up to 9h.

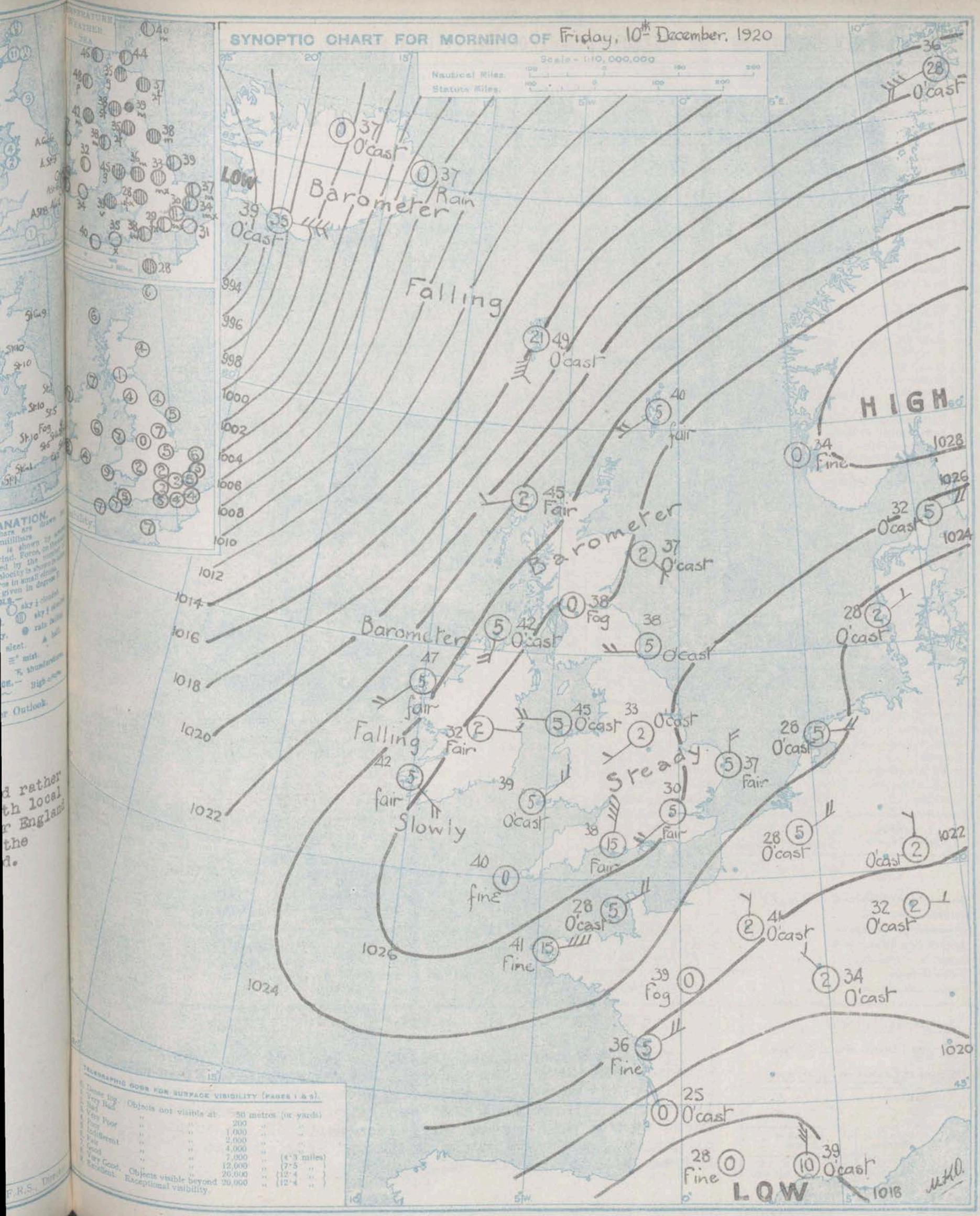
A ridge of high pressure that extends from Scilly to Southern Norway will cause fair cold weather with local fog over England for a day or two but in Scotland and Ireland somewhat milder and less settled weather is likely.

Districts.	Forecasts for the 24 hours commencing 15h.G.M.T. Friday, 10th December, 1920.
1. S.E. England	Light to moderate North or North-East wind; fair, fog locally; cold with frost at night.
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	Wind light and indefinite; fair, fog locally; cold with frost at night.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	Light to moderate South-West wind; fair to dull, slight drizzle locally; visibility fair; moderate temperature.
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	Same as 3 - 11.
20. S.W. Ireland	



Further Outlook.

Fair and rather cold with local fog over England during the week-end.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No 345

Friday
10th DECEMBERWEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 9th

STATIONS.	WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.	WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
	Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 18h-19h.	Day. 9h-18h.	Sunrise to Sunset.	9h-18h.		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 18h-19h.	Day. 9h-18h.	Sunrise to Sunset.	9h-18h.
Scotland, Oban ...	b.c.	0	48	35	1	-	-	0.3	Douglas (I.O.M.)	f.o.c.	of	34	26	0.2	-	0.0	0.0
Banff ...	b	bx	42	29	-	-	-	5.2	Blackpool ...	f	of	33	28	0.2	-	0.0	0.0
Montrose ...									Southport ...	f	of						
St. Andrews ...									Morecambe								
England, N.E., Harrogate ...	b	b	43	31	-	-	-	6.3	Buxton ...								0.0
Scarborough ...	b	b	45	31	-	-	-	5.0	Leamington Spa ...	f	f	31	28	-	-	3.2	3.2
Skegness ...	x.m.b	b	40	26	-	-	-	3.6	Malvern ...	a.c.b.e	b.c.b	44	32	-	-	1.0	1.0
Lowestoft ...									Bath ...	m.o.c	b.b.b.c	41	30	-	-		
Felixstowe ...	of	bj	35	30	-	-	-	0.0	Rhyl ...	b.c.c.	b.c.c	45	32	0.2	-	2.8	2.8
Southend-on-Sea ...	fx	c.b.c.b	34	25	-	-	-	0.3	Colwyn Bay ...	x	x	45	36	3	-	2.5	2.5
Tunbridge Wells ...	o.f.o.	o.c.	37	29	-	-	-	0.0	Llandudno ...	x	x	47	39	2	-	7.0	7.0
Margate ...	o	o	42	37	-	-	-	0.0	Aberystwyth ...	o.c.b.	b.b.c	47	34	-	-		
Ramsgate ...	*	*	43	34	-	-	-	0.3	Tenby ...								
Folkestone ...	m.b.x.b	b.c.o	38	30	-	-	-	3.3	Swansea ...								
Hastings ...	x.b.b.c	bom	39	31	0.2	-	-	4.6	Weymouth ...	c.b.c	b.c.b	43	37	-	-	4.0	4.0
Eastbourne ...	bc	b.c.c.b.c	40	30	-	-	-	4.4	Teignmouth ...								
Brighton ...	b	b	40	32	-	-	-	4.2	Torquay ...	bm	bm	46	40	-	-	5.4	5.4
Worthing ...	b	b.c.o	40	31	-	-	-	4.2	Paignton ...	bm	b	47	39	-	-	4.8	4.8
Littlehampton ...	b.c.m.b	bcm	40	29	-	-	-	3.9	Penzance ...	bc	bc	49	39	0.2	-	5.8	5.8
Portsmouth (S'thess)	x	*	44	34	-	-	-	3.6	Newquay ...	b	b	46	39	5	-	5.7	5.7
Bournemouth ...	*	*	43	31	-	-	-	0.0	Bude ...	wx.b.c	b	47	35	2	-	0.7	0.7
Ventnor (I. of W.)	*	*	43	31	-	-	-	0.0	Ilfracombe ...	o.b.c.c	b.c.b.c	46	39	-	-	5.0	5.0
									Weston-s-Mare ...	m.b.c.b	b	44	32	-	-		

STATIONS.	SUMMARIES FOR PAST 24 HOURS.					RAINFALL, mm.	Sun. Hours.
	WEATHER.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Day. 18h-19h.		
Renfrew ...	b.o.c.o.s	57	41	37	37	0.5	
Eskdalemuir ...	b.b.c.y	52	40	36	36	3	4.1
Valencia (Cabiro) ...	b.b.c	52	48	34	30	-	3.8
Baldonnel ...	b.b.c	52	45	32	32	-	5.4
Manchester (Aero. Pk)	c-e-f	68	56	35	31	+	
Ross on Wye ...	c-e-f	68	44	26	23	4.8	
Falmouth ...	2f.b.b.c	62	48	34	27	-	6.1
Caishot (Hants) ...	3f.z	62	43	32	25	-	3.9
Lympne (Folkestone) ...	c-a-f	62	36	31	29	-	2.0
Aberdeen ...	1f.2f	56	39	31	25	-	5.5
Howden ...	o.eif	56	42	27	21	-	3.3
Cranwell (Lincs) ...	o.eif	56	37	29	29	0.1	4.7
Felixstowe ...	4f.z	56	36	28	28	0.2	0.0
Shoeburyness ...	3f.2f	56	34	27	27	0.1	0.0
Benson ...	3f.1-5f	56	32	24	19	-	*
S. Farnborough ...	a-a-c	56	36	24	20	600e	1.0
London (Kew Observatory) ...	3f.w	62	41	30	22	-	0.3
Croydon ...	c-e-f	56	35	29	*	-	*

BEAUFORT NOTATION.
 b blue sky (not more than a quarter covered).
 bc sky partly cloudy (one half covered).
 c generally cloudy (three quarters covered).
 d drizzle, or fine rain.
 e wet air without rain falling.
 f fog.
 g gloom.
 h hail.
 i lightning.
 m mist.
 o overcast sky.
 p passing showers.
 q squalls.
 r rain.
 rs sleet, i.e., rain and snow together.
 s snow.
 t thunder.
 u ugly, threatening sky.
 v unusual visibility.
 w dew.
 x hoar frost.
 y dry air; humidity less than 60 per cent.
 z dust haze; the turbid atmosphere of dry weather.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
 R = heavy rain.
 M = continuous moderate rain.
 R.R = continuous light rain.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Miles per second.	THE BEAUFORT SCALE OF WIND FORCE.	
			Used only for surface observations.	
0	Less than 1	Less than 0.2	0	0-15
1	1-3	1-4	1	16-33
2	4-7	5-9	2	34-54
3	8-12	8-12	3	55-74
4	13-18	13-18	4	75-107
5	19-24	19-24	5	108-138
6	25-31	25-31	6	139-171
7	32-38	32-38	7	172-207
8	39-46	39-46	8	208-244
9	47-54	47-54	9	245-284
10	55-63	55-63	10	285-323
11	64-75	64-75	11	324-364
12	Above 75	Above 75	12	365 & above

SYMBOLS-	
Aurora	♂
Rime	□
Glazed frost	○
Glazed roads	○
Solar halo	○
Lunar halo	○
Solar corona	○
Lunar corona	○

LONDON. OBSERVATIONS.	Morning.	WEATHER.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rain- fall. mm.	Sun- shine to Sonset. Hours.	Humidity %	10h. G.M.T. 10h. G.M.T.	YESTERDAY.	TO-DAY.	Vertical Component of Solar Radiation per Square Centimetre during yesterday.
Greenwich (Royal Observatory) ...	fc.m	o.2.23	52.20	38	32	26	-	0.0	84	87		
City (Bunhill Row) ...	*	*	*	*	*	*	*	0.0	*	*		
Westminster (St. James's Park) ...	*	*	*	42	31	28	-	0.0	75	82		
Regents Park (Botanical Garden) ...	*	*	*	*	*	*	*	0.0	*	*		
Camden Sq. (British Railways) ...	b.c.m	62	*	37	32	26	-	*	83	89		
Kensington Palace ...	0	c.b	*	40	28	25	-	*	81 (18h)	85	Average Rate, 5.2	
Hampstead Observatory ...	*	*	*	38	27	27	-	1.6	*	84	Maximum Rate, 13	
Photographic Record of Pole Star (Polaris) and of 8 Ursae Minoris at Greenwich Observatory.												
Exposure from 9h. 17h. 0 m. to 10h. 6h. 16m.												
Stars.	Duration of Exposure.	Duration of Record.										
Polaris	h. 13. 45	h. 13. 15	%	96								
8 Ursae Minoris	13. 45	9. 24	%	68								

NOTES ON THE WEATHER OF YESTERDAY.

There was sharp frost locally in England and Ireland, the minimum being 24° at Farnborough and Benson, and 27° at Birr Castle. There was not much fog except at Manchester, where it continued throughout the twenty-four hours. Sunshine records varied very much in different parts of the country. Slight rain occurred in the North and West, 5mm at Castlebay and 3mm at Eskdalemuir.

* Information for these columns not usually received.

† Trace = rain has fallen but amount less than 0.1 mm.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B.21569

SATURDAY... 11th DECEMBER... 1920.

STATIONS	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H., 7H., 10H. AND 18H.																												
	BAROM. at M.S.L. mb.	1 Change in 3 hours.	WIND.		Weather	TEMP. °F.	Humid. %	Visibil. 0-9.	Height of Low Cloud. Foot.	Low Cloud.			Upper Cloud			BAROM. at M.S.L. mb.	1 Change in 3 hours.	WIND.		TEMP. °F.	Humid. %	Visibil. 0-9.	Height of Low Cloud. Foot.	Low Cloud.			Upper Cloud	Sea	
			Dir.	Force 0-12.						Form.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.	Dir.		Force 0-12.												
Renfrew ...	10264	-1	N	1	05fe	39	97	1	750	Sc	10	-	-	-	10264	+1	-	0	0sf	39	97	11	750	Sc	10	-	-	4	
Eskdalemuir ...	10264	0	-	0	ad.m	37	97	3	1,250	Nb	10	-	-	-	10264	+1	-	0	owd.	38	97	3	750	Nb	10	-	-	4	
Valencia (Cahirc's)	10264	-3	SSE	3	c	45	75	9	3,000	StCu	8	-	-	-	10264	0	SE	3	bc	45	75	9	3,000	StCu	4	-	-	4	
Baldonnel ...	10264	-1	W	1	c	39	85	8	-	-	-	-	-	-	10264	+1	-	0	b	33	92	5	-	-	-	A-Cu	2	8	
Mancheder (N.W. Eng.)	10264	-1	SSE	1	05fe	35	97	1	<500	Sc	10	-	-	-	10264	0	SW	1	05fe	37	97	1	<500	Sc	10	-	-	4	
Ross on Wye ...	10264	-1	-	0	03f	34	97	2	750	Sc	9	-	-	-	10264	0	ENE	1	04f	35	97	2	<500	Sc	10	-	-	4	
Falmouth ...	10254	-3	NNE	1	c	46	75	7	-	-	-	-	-	-	10254	0	NE	2	b2f	38	85	5	-	-	-	-	-	8	
Calshot (Hants) ...	10252	-2	N	2	b2f	41	85	4	-	-	-	-	-	-	10252	+1	NNE	2	b3f	37	85	3	-	-	-	-	-	1	
Lympne (Folkestone)	10234	0	N	4	b2f	39	85	4	3,000	StCu	4	-	-	-	10234	+2	E	4	b2m	34	85	6	750	Sc	6	-	-	8	
Aberdeen ...	10262	0	SSW	1	b3fe	40	85	3	-	-	-	-	-	-	10262	+1	SSW	1	03f	41	85	3	3,000	StCu	10	-	-	2	
Howden ...	10261	-2	-	0	c	39	92	5	3,000	Sc	6	-	-	-	10261	0	b2m	32	97	3	2,000	Sc	2	-	-	9			
Cranwell (Lincs) ...	10262	-1	NW	3	b2f	38	92	4	4,200	Sc	1	QST	1	* 10262	0	N	3	b2f	34	97	4	5,700	StCu	2	-	-	9		
Felixstowe ...	10245	-2	NNW	3	bc	41	85	6	5,200	StCu	6	-	-	-	10245	+2	ENE	3	01f	37	85	6	5,700	StCu	10	-	-	2	
Shoeburyness ...	10243	-1	N	2	b1fe	40	75	6	-	-	-	-	-	-	10243	+2	E	1	02f	38	75	5	2,000	Sc	3	A-Cu	6	8	
Benson ...	10253	-2	-	0	b2f	33	97	3	-	-	-	-	-	-	10253	0	b2f	30	97	3	-	-	-	-	-	8			
S. Farmborough ...	10250	-2	WNW	1	b2f	36	92	3	<500	Sc	10	-	-	-	10250	+1	NE	2	b2	37	85	3	-	-	-	-	8		
London (New Chay.)	10250	-3	N	2	b2f	39	85	3	3,000	StCu	10	-	-	-	10250	+1	WSW	1	ad.f	33	97	2	<500	Sc	10	-	-	8	
Croydon ...	10255	-2	-	0	b2f	33	92	2	-	-	-	-	-	-	10255	0	WSW	1	ad.f	33	97	2	<500	Sc	10	-	-	8	
Renfrew ...	10270	0	-	0	c	36	92	5	2,000	StCu	8	8	17.81	3	10274	0	ESE	1	02f	39	97	2	1,250	St	10	-	-	8	
Eskdalemuir ...	10230	0	SE	3	b2c	43	*	*	1*	*	*	*	*	*	10229	0	NE	1	02f	32	92	7	-	3,000	StCu	9	-	-	4
Valencia (Cahirc's)	10230	0	-	0	b2c	31	92	6	-	-	-	-	-	-	10230	0	SE	3	b6	45	75	8	2,000	Cu	3	-	-	4	
Baldonnel ...	10253	-1	-	0	b2c	31	92	6	-	-	-	-	-	-	10249	-1	0	02f	39	85	5	2,000	St	10	-	-	8		
Manchester (Altyng)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10257	0	N	2	02f	35	85	3	3,000	StCu	6	H.Q.	4	8
Ross on Wye ...	10245	-1	N	1	0	40	85	7	-	St	10	-	-	-	10247	-1	ENE	1	04f	32	97	2	<500	St	10	-	-	8	
Falmouth ...	10254	0	NNE	2	02f	36	85	4	3,000	StCu	91	10	-	-	10229	-2	NE	2	42	85	6	-	St.	10	-	-	1		
Calshot (Hants) ...	10254	0	-	0	0f	31	85	6	750	St	10	-	-	-	10234	-2	NNW	3	0	34	85	7	1,250	St	10	-	-	1	
Lympne (Folkestone)	10247	0	-	0	0f	32	85	6	-	-	-	-	-	-	10238	-2	N	1	01f	28	92	6	750	St	10	-	-	8	
Aberdeen ...	10268	*	*	*	*	02f	34	97	3	750	St	8	*	*	*	10283	H	5	02f	41	75	5	3,000	StCu	9	-	-	2	
Howden ...	10260	0	N	2	b2c	33	97	4	2,000	Ab	5	-	-	-	10258	-1	ENE	1	b1f	33	97	4	3,000	St	10	-	-	8	
Cranwell (Lincs) ...	10260	0	-	0	b2c	36	85	8	-	-	-	-	-	-	10250	0	NN	3	0	33	97	5	3,000	StCu	9	-	-	8	
Felixstowe ...	10263	-1	H.S.W.	2	0	36	85	8	-	-	-	-	-	-	10230	-2	NN	3	050	33	85	6	4,200	St	10	-	-	2	
Shoeburyness ...	10243	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10227	-3	-	0	02f	32	75	6	4,200	Cu	6	A-S	3	8
Benson ...	10253	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10228	-2	-	0	04f	31	97	2	-	St.	10	-	-	8
S. Farmborough ...	10251	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10235	-3	W	2	03f	31	92	2	750	St	10	-	-	8
London (M.O. at 1m.) ...	10251	0	S	1	0f	32	85	6	-	-	-	-	-	-	10243	-1	SW	1	02f	32	92	4	1,250	St	9	A-S	1	8	
Croydon ...	10255	0	-	0	0f	32	85	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8				
STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.																													
STATIONS	BAROM. at M.S.L. mb.	TEMP. °F.	WIND.		Weather	BAROMETER.	TEMPERATURE.	WIND.	Dir. of Upper Cloud.	Rainfall mm.	TEMP.			WEATHER.			Sunsh/in Hours												
			at M.S.L. mb.	1 Change in 3 hours.							Temp. °F.	Change in 24 hours.	Dir. 0-12.	Force 0-12.	Weather	Sea		Max. °F.	Min. °F.	Morning	Afternoon	Night							
Lerwick ...	10250	45	S	3	0f, 22f	10251	+1	43	-2	S	1	-	-	bc	7	trace	48	42	bc	bc	bc	c	0.0	0.0	0.0				
Stornoway ...	10238	45	S	1	0	10247	0	48	0	SSE	3	-	-	c	3	-	49	46	bcc	c	c, op	0.0	0.0	0.1					
Castlebay (Barra's) ...	10240	-9	WSW	4	0	10247	0	48	0	SSE	3	-	-	c	3	-	-	-	bc	c	c, op	0.0	0.0	0.0					
Malin Head ...	10243	41	SW	2	b	10242	0	37	-6	S	2	E	bc	2	-	45	36	bc	c	c	b	0.2	0.2						
Black sod Point ...	10214	44	SE	3	bc	10216	0	42	-5	SE	2	-	-	bc	2	-	48	40	bc	c	c	b	*						
Roche's Point ...	10256	47	SE	2	b	10239	-1	44	11	NE	2	-	-	bc	2	1	48	34	bc, cm	cm, b	cm, b	b, bc	*						
Birr Castle ...	10255	47	SW	1	c	10244	*	37	+8	W	1	-	-	0	*	-	42	30	bc	c, c, c	c, c, c	c, c, c	6.2						
Denaghadee ...	10255	38	SW	1	c	10243	-1	44	+6	S	2	-	-	omr	1	1	45	37	cm	cm	cm	bf, omr	*						
Liverpool (Addison) ...	10262	39	SE	1	f	10256	0	35	-1	ESE	2	-	-	bm	2	1	40	34	ogd	ogd	ogd	0.6m	0.0						
Holyhead ...	10260	45	-	0	03f	10243	0	42	-3	E	3	-	-	cg	2	1	49	41	o.c. bc	o.c. pm	o.c. pm	0.0m	0.3						
Pembroke (St. Ann's Head) ...	10261	-1	N	1	0	10236	-2	41	+2	SE	3	-	-	odm	2	1	43	38	o	o	o	0.0dm	0.0						
Scilly (St. Mary's) ...	10254	44	E	1	bc	10224	-2	45	+5	ESE	1	E</																	

Information for these columns will usually be received

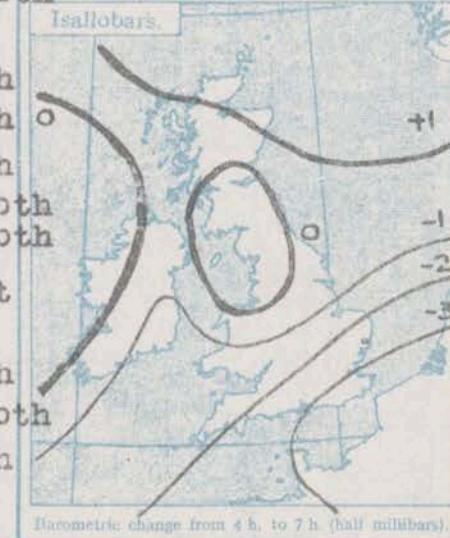
The barometric chart is expressed in half millibars.

For code see page 3

+ See Dyer, etc. p. 4.

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 11.12.20.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.	Temperature reported from Coastal and Cross Channel Steamers.				
				Position Number	Date	Time G.M.T.	Sea °F	Air °F
1. S.E. England	Dull, foggy, frost slight	Indif.	Smooth	5	10 th	0854	51	46
2. E. England	Squally, slight snow. ^{snow.}	Fair.	Smooth	1	10 th	1222	54	45
3. E. Midlands	Dull.	Indif.	-	7	11 th	0857	50	40
4. W. Midlands	Dull, misty.	V. Poor	-					
5. S.W. England	Fair to dull, misty.	Fair.	Smooth					
6. South Wales	Dull misty drizzle.	Fair.	Smooth					
7. North Wales	Cloudy, squally.	Good.	V. Smooth					
8. N.W. England	Dull, misty.	Poor.	V. Smooth					
9. N. Midlands	Dull, misty.	Poor.	-					
10. N.E. England	Dull showery.	V. Good	Smooth					
11. E. Scotland	Dull, foggy, gloomy.	Indif.	Smooth					
12. S.W. Scotland	Dull.	Good.	Smooth					
13. Isle of Man	Overeast.	Fair.	V. Smooth					
14. N. & N.W. Scotland	Fair to dull.	Indif.	V. Smooth					
15. Hebrides	Fair to dull.	Good.	Slight					
16. Orkneys and Shetlands	- - -	-	-					
17. N.W. Ireland	Fair.	Good.	Smooth					
18. N.E. Ireland	Dull, misty, rainy.	Fair.	V. Smooth					
19. S.E. Ireland	Dull, misty, rain locally.	Fair.	Smooth					
20. S.W. Ireland	Fine.	V. Good	-					



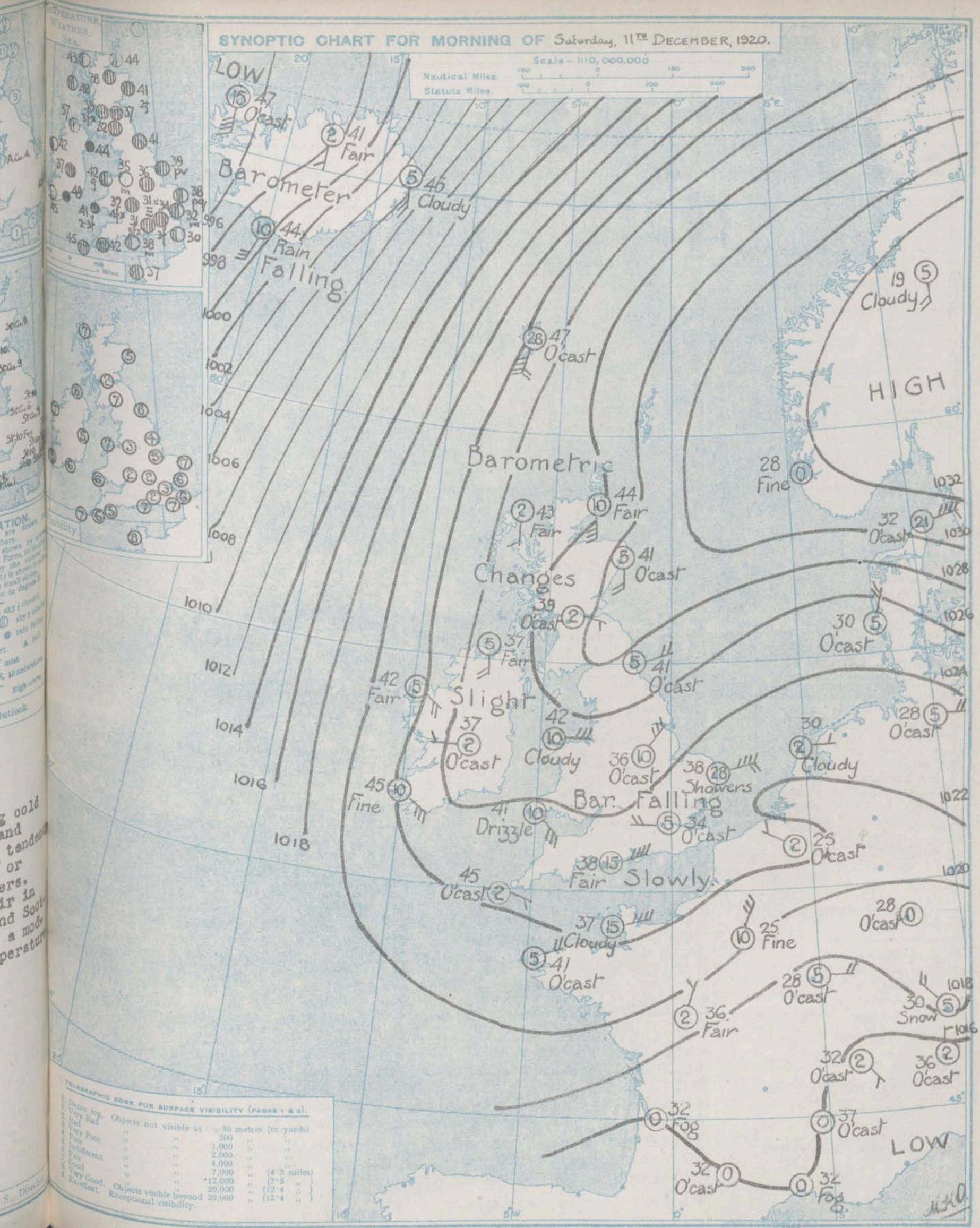
EXPLANATION
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by arrow flying with the wind. Force, by force 0-12, is indicated by the number of feathers. Mean velocity is given in miles per hour by figures in small circles.
TEMPERATURE is given in degrees Fahrenheit.
WEATHER SYMBOLS.—
○ clear sky. ○ sky & clouded. ○ sky & cloudy.
○ overcast sky. ○ rain falling.
★ snow. ○ sleet. ○ hail.
≡ fog. ≡ mist.
T thunder. T lightning.
SEA DISTURBANCE.—Rough sea.

Further Outlook

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Saturday 11th December 1920.
1. S.E. England	Wind light or moderate North-East or East; much cloud generally, some slight showers of rain, sleet or snow. Mist locally; visibility indifferent to fair; continuing cold.
2. E. England	Wind mainly East, light, cloudy or overcast, some slight rain showers, fairer intervals. Visibility mainly fair. Little change of temperature.
3. E. Midlands	Same as 1 - 4.
4. W. Midlands	Wind South-East or South, light; mainly fair or cloudy, but slight local showers. Visibility fair generally. Little change of temperature.
5. S.W. England	Wind S, moderate. Fair. Moderate temperature.
6. South Wales	Same as 11 - 15.
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	

Continuing cold over England with some tendency for sleet or snow showers. Mainly fair in Ireland and Scotland, with a moderate temperature.

SYNOPTIC CHART FOR MORNING OF Saturday, 11th DECEMBER, 1920.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 2452.

Saturday
17th Decth 1920

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR JUNE																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h	Day 19h-18h	Sunrise to Sunset 9h-10h cm	10h-11h hrs			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h	Day 19h-18h	Sunrise 10h-11h hrs	
Scotland,	Oban	ad.	o	48	40	6	1	0.0		Douglas (I.O.M.)									
	Banff	c. bc	c.or	39	29	-	?	2.9		Blackpool	o	me	38	28	0.4	1	0.0	0.0	
	Montrose									Southport	o fe. o	oem	38	27	0.2	6.2	0.0	0.0	
	St. Andrews	o	t	41	30	-	-	0.0		Morecambe	x	x	40	30	1	1	0.0	0.0	
England, N.E.	Harrogate	o	o	39	33	-	-	0.0		Buxton									0.0
	Scarborough	b	b	45	37	-	0.3	2.3		Leamington Spa	o	omfe	36	26	-	-	0.0	0.0	
	Skegness	c.bcp	c.p.b	43	34	2	0.4	4.3		Malvern	o	o	39	28	-	-	0.0	0.0	
	Lowestoft									Bath	cmo	m.o	38	29	-	-	0.0	0.0	
England, E.	Felixstowe	bow	ow	42	32	-	-	4.4		Rhyl	c	d	43	32	-	1	0.0	0.0	
	Southend-on-Sea	mx. bc	bc.oto	42	28	Trace	1	5.1		Colwyn Bay	*	*	45	36	1	1	0.0	0.0	
England, S.E.	Tunbridge Wells	bc	bc.cs	41	28	-	-	1.5		Llandudno	*	*	46	36	1	0.1	0.0	0.0	
	Margate	b.b.c	ob.g	43	37	-	s	1.5		Aberystwyth	o.c	c.o	44	33	-	-	0.0	0.0	
	Ramsgate	*	*	44	36	-	3	0.9		Tenby								0.0	
	Folkestone	x.b.b.c	ogfe	42	30	-	2	4.0		Swansea								0.0	
	Hastings	x.c.b.c	b.b.c.0d	42	34	0.2	0.1	5.0		Weymouth	y.c.bc	bc.b	42	33	-	-	0.0	2.6	
	Eastbourne	c.b.c	bc.co	41	34	-	-	4.1		Teignmouth								3.4	
	Brighton	bf	bj	40	32	-	-	2.6		Torquay	x.bcm	bc.b.be	44	34	-	-	4.6	4.6	
	Worthing	bc	bcc	42	32	-	-	2.0		Paignton	bcm.b	bmo.a	47	32	-	-	3.0	3.0	
	Littlehampton	bom	bcm	40	33	-	-	2.0		Penzance	bc	bc.c	47	33	-	-	2.2	2.2	
	Portsmouth (S.W.)	*	*	42	33	-	-	4.2		Newquay	bx.o	ob	44	31	-	-	1.9	1.9	
	Bournemouth	*	*	41	29	-	-	4.2		Bude	ax.b.	c.b.c.e	40	28	-	-	1.3	1.3	
	Ventnor (I. of W.)	*	*							Iffracombe	c.cbc	bc.co	43	35	-	-			

SUMMARIES FOR PAST 24 HOURS.

BEAUFORT NOTATION.

- | | |
|----|--------------------------------------------------|
| b | blue sky (not more than a quarter covered). |
| bc | sky partly cloudy (one half covered). |
| c | generally cloudy (three quarters covered). |
| d | drizzle, or fine rain. |
| e | wet air without rain falling. |
| f | fog. g gloom. |
| h | hail. i lightning. |
| m | mist. o overcast sky. |
| p | passing showers. |
| q | squalls. r rain. |
| rs | sleet, i.e., rain and snow together. |
| s | snow. t thunder. |
| u | ugly, threatening sky. |
| v | unusual visibility. |
| w | dew. x hoar frost. |
| y | dry air; humidity less than 60 per cent. |
| z | dust haze; the turbid atmosphere of dry weather. |

THE BEAUFORT SCALE OF
WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at an Altitude of 30 feet above ground.	
	Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1-5	0·2-1·8
2	4-7	1·2-2·8
3	8-13	3·4-3·8
4	15-18	5·0-7·9
5	19-24	8·0-10·7
6	25-31	10·9-13·8
7	32-38	13·9-17·1
8	39-45	17·2-20·7
9	47-64	20·8-24·6
10	55-68	24·2-28·4
11	66-75	28·5-35·5
12	Above 75	35·6 or above

SYMBOL

- | SYMBOLS— | |
|--------------|----------------|
| Aurora | ◇ Solar halo |
| Rime | □ Lunär halo |
| Glazed frost | ◆ Solar corona |
| Glazed roads | ○ Lunär corona |

SHOWING THE GREENWICH TIMES,
NOON AND SUNSET FOR STATION
IN THE KINGDOM.

LONDON, OBSERVATIONS.	Morning	WEATHER.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rain- fall. mm.	Sun- shine to Sunset. Hours	HUMIDITY %		
		Afternoon.						15 h. G.M.T.	9 h. G.M.T.	
24 HOURS ENDED <i>9h</i> G.M.T., <i>11th</i>										
Greenwich (Royal Observatory)	b3	b30.05°	09.075/10.	40	32	30	-	94	86	79
City (Bunhill Row)	*	*	*	*	*	*	*	98	*	*
Westminster (St. James's Park)	*	*	X	43	34	30	0.3	0.2	77	7
Regent's Park (Botanical Glade)	*	*	Y	*	*	*	+	3.2	*	*
Camden Sq. (British Rainfall)	b3.6	b.C.	*	42	34	28	-	*	81	95
Kensington Palace	C	C	*	42	31	26	0.3	*	93 (18h)	90
Hampstead Observatory	*	*	*	40	32	30	0.3	50	*	70

SOUTH KENSINGTON
(Meteorological Office).

Vertical Component
of
Solar Radiation
per Square Centimetre
during yesterday

TABLE SHOWING THE GREENWICH TIMES OF HIGH, NOON AND SUNSET FOR STATION RINGDOM.

Stations.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
armouth ...	7.56	11.46	1.51
reenwich ...	7.57	11.47	1.52
ick ...	7.58	11.48	1.53
alencia ...	8.56	12.5	2.11
	8.55	12.6	2.12
	8.46	12.8	2.13
	8.44	12.8	2.13

Photographic Record of

Pole Star (Polaris) and of δ Ursae

Minoria at Greenwich Observatory

Exposure from 10⁷ to 10⁸

Item	Duration of Exposure.	Exposure of Percent.
Wool	6 - 20 13 - 43	1 - 20 20
Musoids	15 - 45	0 - 50

NOTES ON THE WEATHER OF YESTERDAY.

Temperature remained below 40° in some inland parts of Gt. Britain, only reaching 35° at Benson and Croydon, but rose to above 45° at many western stations. Frost occurred at night over a large area in England and at Baldonnel. Slight showers of rain fell in the West and

North and of rain or snow, in the South-East and East. Several hours of bright sunshine were recorded on the East and South coasts of England and as much as 6.2 hours at Birr Castle; elsewhere there was little or none.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B21570 SUNDAY, 12TH DECEMBER.....1920.

STATIONS		OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																	
BAROM. at M.S.L. mb.	Wind. Dir. Force 0-12.	Temp. °F.	Humidity %	Visibility 0-9.	Height of Low Cloud, Feet.	Low Cloud Form.	Up. Cloud Form.	Sea	BAROM. at M.S.L. mb.	Wind. Dir. Force 0-12.	Temp. °F.	Humidity %	Visibility 0-9.	Height of Low Cloud, Feet.	Low Cloud Form.	Up. Cloud Form.	Sea	0-9.	
39	30								39										
54	43								54										
57	44								57										
61	48								61										
7	7								7										
64	43								64										
NTIC.																			
Weather.	Se	(0-9)																	

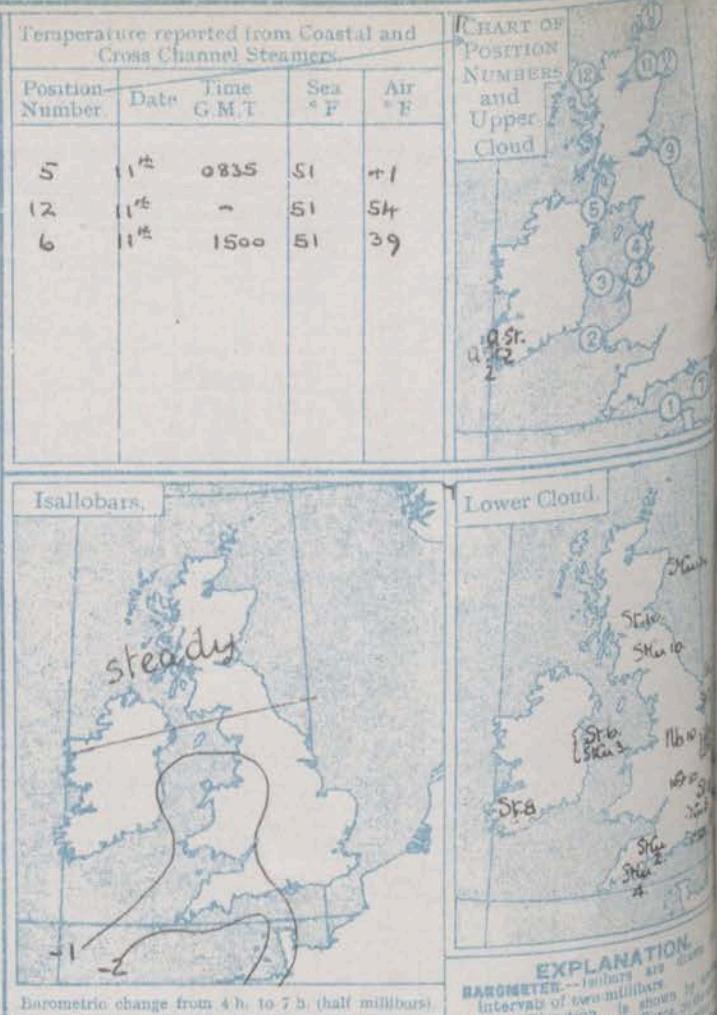
STATIONS	BAROM. at M.S.L. mb.	Wind. Dir. Force 0-12.		Temp. °F.	Humidity %	Visibility 0-9.	Height of Low Cloud, Feet.	Low Cloud Form.	Up. Cloud Form.	Sea	BAROM. at M.S.L. mb.	Wind. Dir. Force 0-12.		Temp. °F.	Humidity %	Visibility 0-9.	Height of Low Cloud, Feet.	Low Cloud Form.	Up. Cloud Form.	Sea								
		Change in 8 hours.	Wind. Dir. Force 0-12.									Change in 8 hours.	Wind. Dir. Force 0-12.	Wind. Dir. Force 0-12.														
Renfrew ...	10276	-3	NNW	1	03f	37	85	2	1220	SF	5	A.C.	4	*	10274	0	ENE	3	03f	38	92	3	2000	SFC	10	-	-	4
Eskdalemuir ...	10272	-2	NE	2	C	34	85	7	5700	SFC	6	-	-	*	10263	0	NE	3	0	34	92	6	-	-	-	4		
Valencia (Cahirc's)	10215	-1	E	3	C	47	75	8	+2000	SFC	8	-	-	*	10218	0	-	0	45	85	8	5700	SFC	10	-	-	4	
Baldonnel ...	10243	0	ESE	2	od.	40	92	6	1220	Nb	7	ASh	3	*	10242	0	0	C	37	75	5	1220	SFC	8	-	-	3	
MANCHESTER (Alex)	10239	-3	N	2	03f	38	85	3	2000	SF	9	-	-	*	10222	-1	NE	4	07pm	37	85	3	2000	SF	10	-	-	4
Ross on Wye ...	10226	-3	NNW	2	02f	37	85	4	2000	SF	10	-	-	*	10209	-2	NE	3	02f	36	85	4	750	SF	10	-	-	4
Falmouth ...	10214	-2	NZ	3	01f	41	75	6	-	CuN	9	-	-	*	10205	-2	NNW	2	02f	37	75	4	-	SF	10	-	-	4
Calshot (Hants) ...	10206	-4	N	3	03f	36	85	3	750	SF	4	A.Cu	5	2	10184	-2	N	3	01f	36	85	6	2000	SF	10	-	-	2
Lympne (Folkestone)	10187	-4	NNW	3	02f	33	92	5	750	SF	10	-	-	*	10185	0	SZ	4	bcm	31	85	6	750	SFC	6	-	-	1
Aberdeen ...	10289	0	E	4	C	40	65	8	2000	SFC	8	-	-	3	10290	0	ESE	4	07pm	38	97	6	1220	Nb	10	-	-	4
Howden ...	10225	-4	NE	3	C	37	92	7	1220	SFC	8	-	-	*	10226	-1	ENE	3	0	34	97	7	1220	SFC	9	-	-	3
Cranwell (Lines) ...	10224	-4	NNW	3	C	34	97	5	2000	SFC	9	-	-	*	10213	-1	NNW	3	0	31	97	5	2000	SFC	10	-	-	Q
Felixstowe ...	10201	-3	N	3	oh	33	97	3	750	NB	10	-	-	*	10188	-1	N	1	0	32	97	3	750	Nb	10	-	-	8
Shoeburyness ...	10196	-3	N	2	0	35	85	6	2000	SFC	10	-	-	*	10183	-1	0	0	0	33	95	6	1220	SF	10	-	-	8
Benson ...	10213	-3	NNW	1	0	34	92	4	-	SFC	10	-	-	*	10189	-1	NNW	3	0	34	92	4	-	SF	10	-	-	8
S. Farnborough	10210	-4	NNW	1	02f	36	97	5	2000	SFC	10	-	-	*	10186	-2	NNW	1	08	40	97	5	2000	Nb	10	-	-	8
London (Kew Observatory)	10201	-4	N	3	06,2f	37	85	4	2000	SFC	7	ASh	3	*	10184	-3	N	2	02f	36	85	4	2000	SFC	10	-	-	8
Croydon ...	10203	-3	NNW	3	03f	36	85	3	750	SF	10	-	-	*	10190	-2	E	3	07pm	32	85	5	750	SF	10	-	-	8
1H. G.M.T. OF 12 TH																												
Renfrew ...	10249	-1	ME	3	05	33	85	6	-	Nb	6	ASh	4	*	10257	0	ME	3	02f	35	92	4	2000	SF	10	-	-	2
Eskdalemuir ...	10221	0	ESE	1	or	42	* * *	*	*	*	*	*	*	*	10252	0	ME	2	REC	28	92	7	-	SZ	8	oast	2	2
Valencia (Cahirc's)	10230	-1	-	0	02f	37	85	4	+2000	SF	10	-	-	*	10221	-1	ENE	2	0	39	65	8	5700	SZ	9	-	-	2
Baldonnel ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10203	-1	NME	4	09	31	92	3	3,000	Nb	10	-	-	2
MANCHESTER (Alex)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10192	0	E	3	02f	30	92	5	1,250	SF	10	-	-	2
Ross on Wye ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10176	-1	NME	3	bck	34	75	7	-	SFC	4	-	-	2
Falmouth ...	10181	-3	MME	1	o	33	85	4	-	SF	10	-	-	*	10176	0	HME	3	01f	30	85	7	3,000	SF	10	-	-	2
Calshot (Hants) ...	10171	-2	ME	3	01f	33	85	7	1,250	SF	10	-	-	*	10187	1	E	1	bcm	26	92	5	750	SF	6	-	-	2
Lympne (Folkestone)	10182	0	SSE	4	7pm	27	85	6	750	SF	1	-	-	*	10277	0	SE	5	01f	40	65	7	2,000	SFC	10	-	-	4
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10213	-2	EHE	1	08	31	85	6	3,000	SFC	10	-	-	2
Howden ...	10207	-0	E	2	bck	29	97	5	2,000	SF	4	-	-	*	10207	0	ME	2	CBC	27	97	5	3,000	SFC	7	-	-	2
Cranwell (Lines) ...	10196	0	ESE	14	0	30	97	3	750	Nb	10	-	-	*	10197	0	MW	2	0	28	97	3	1,250	Nb	10	-	-	1
Felixstowe ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10188	0	O	0	CX	27	75	7	3,000	SFC	2	act	S	2
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10185	0	ME	2	0	27	85	5	-	SF	10	-	-	2
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10187	0	WHW	1	cm	24	97	4	3,000	SFC	8	-	-</	

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 12.12.1920.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair to dull, local snow, (misty)	Indiff.	Slight
2. E. England	Dull, snow lying.	Var.	"
3. E. Midlands	Cloudy or dull, local snow	Indiff.	-
4. W. Midlands	Dull, misty, local snow (showers.)	"	-
5. S.W. England	Var. sky, local snow (showers)	Good	Slight
6. South Wales	Cloudy or dull, local mist.	Var.	Smooth
7. North Wales	Fair to dull.	Fair	Mod.
8. N.W. England	Mainly dull, local snow & (mist.)	Indiff.	Smooth
9. N. Midlands	Snow lying locally. (mist.)	"	-
10. N.E. England	Local snow showers.	Fair	Mod.
11. E. Scotland	Cloudy or dull.	"	"
12. S.W. Scotland	Fair to dull, local mist.	Indiff.	Slight
13. Isle of Man	Cloudy.	Fair	Mod.
14. N. & N.W. Scotland	Variable sky.	"	Slight
15. Hebrides	Fine.	Good	"
16. Orkneys and Shetlands	Fair to cloudy.	Poor	"
17. N.W. Ireland	Fair to dull, local mist.	Good	Smooth
18. N.E. Ireland	Dull, misty.	Fair	Slight
19. S.E. Ireland	Dull, snow lying locally.	"	"
20. S.W. Ireland	Dull.	Good	Smooth

GENERAL INFERENCE from observations received up to 9h.

The anticyclone over Scandinavia continues to maintain Easterly winds over all but the extreme North of the British Isles. Cold weather is likely to continue for some days with snow in places.



Barometric change from 4 h. to 7 h. (half millibars)

EXPLANATION.

BAROMETER—Indicates the interval of two millilitres.

WIND—Direction is shown by the symbol with the wind. Force 0-12, is indicated by the feathers. Mean velocity in miles per hour by figures in small circles.

TEMPERATURE is given in degrees Fahrenheit.

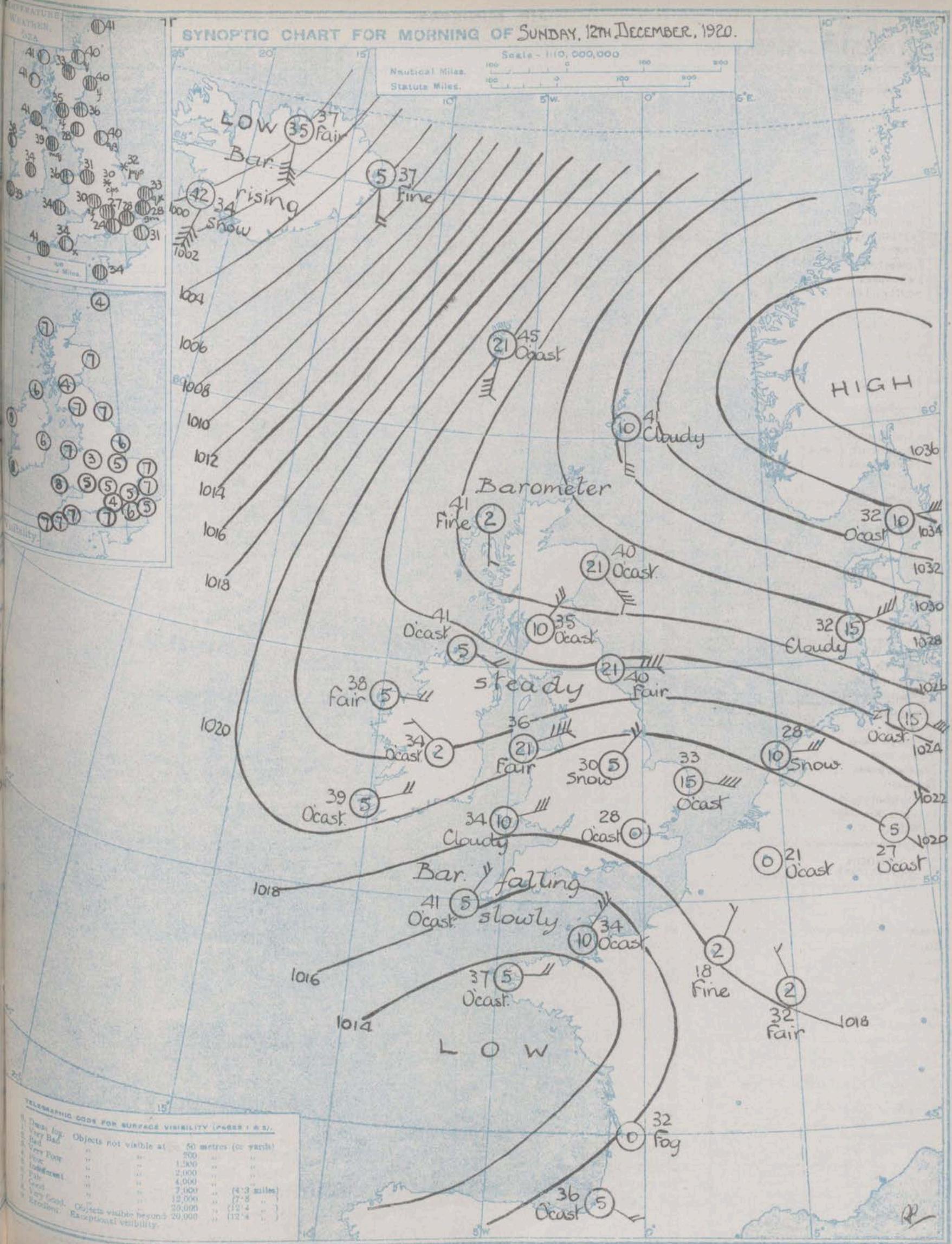
WEATHER SYMBOLS—

- (○) sky 1 cloudy.
- (○) sky 2 cloudy.
- (○) overcast sky.
- (*) snow.
- (○) drizzle.
- (=) fog.
- T thunder.
- SEA DISTURBANCE—Rough.
- Thunderstorms.

Further Outlook.

Districts.	Forecasts for the 24 hours commencing 15 h.G.M.T. Sunday, 12th December, 1920.
1. S.E. England	Winds Easterly, light or moderate; variable sky, slight snow in places, visibility fair but local mist; cold.
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	Wind N.E. to E., light or moderate; variable sky, snow in places, visibility fair but local mist; cold.
6. South Wales	
7. North Wales	
8. N.W. England	Wind Easterly, mainly light or moderate; cloudy, snow showers, visibility fair; cold.
9. N. Midlands	
10. N.E. England	
11. E. Scotland	As for 14-16.
12. S.W. Scotland	As for 7 - 10.
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	Wind S.E. or S., moderate; fair or cloudy, visibility fair; rather cold.
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	Wind Easterly, light; cloudy, local rain or sleet showers, visibility fair; cold.
19. S.E. Ireland	
20. S.W. Ireland	

Continuing on
with Easterly
winds and snow
places.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. NO. 347.

SUNDAY
12th DEC 1920

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 11 th																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 18h-19h.	Day. 9h-10h.	Sunrise to Sunset. 10 th -11 th	11 th			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 17h-18h.	Day. 9h-10h.	Sunrise to Sunset. 10 th -11 th	11 th
Scotland.	Oban	o	o	47	36	-	-	0.0	11 th	England, N.W.	Douglas (I.O.M.)	c	o	38	30	0.1	-	1.5	
	Banff	o	o	47	36	-	-	0.0	11 th		Blackpool	o	abc	37	30	0.1	-	0.9	
	Montrose	o	o	47	36	-	-	0.0	11 th		Southport	o	abc	37	30	0.1	-	0.9	
	St. Andrews	o	o	47	36	-	-	0.0	11 th	England, N.E.	Harrogate	o	o	43	35	-	-	0.0	
	Scarborough	o	o	43	35	-	-	0.0	11 th		Leamington Spa	o	o	37	34	-	-	0.0	
	Skegness	o	o	43	35	-	-	0.0	11 th		Malvern	o	o	37	34	-	-	0.1	
England, S.E.	Lowestoft	o	o	43	35	-	-	0.0	11 th		Bath	o	mo	37	29	0.3	-	0.1	
	Felixstowe	o	o	35	33	-	-	0.0	11 th	Midlands.	Rhyl	o	o	44	35	1	-	0.0	
	Southend-on-Sea	xos	os	36	30	0.1	1	0.0	11 th		Colwyn Bay	o	bco	41	34	0.3	-	0.3	
	Tunbridge Wells	os	os	35	30	1	1	0.0	11 th		Llandudno	o	o	37	34	1	-	0.0	
	Margate	os	o	38	33	-	1	0.0	11 th		Aberystwyth	o	bco	41	34	0.3	-	0.0	
	Ramsgate	*	*	43	30	-	3	0.0	11 th	Wales.	Tenby	*	*	35	34	0.3	-	0.0	
	Folkestone	xos	os	35	30	4	2	0.0	11 th		Swansea	o	o	37	34	0.3	-	0.0	
	Hastings	oc	os	37	31	0.2	0.4	0.0	11 th	England, S.W.	Weymouth	xebe	bco	39	33	-	-	1.2	
	Eastbourne	o	os	37	32	-	1	0.0	11 th		Teignmouth	o	o	39	33	-	-	1.2	
	Brighton	o	o	37	32	-	-	0.0	11 th		Torquay	o	o	42	32	-	-	2.3	
	Worthing	o	o	42	33	-	-	0.0	11 th		Paignton	bc	bc	45	36	-	-	2.4	
	Littlehampton	os	om	36	32	-	-	0.0	11 th		Penzance	bc	bc	45	36	-	-	3.9	
	Portsmouth (S. bese)	os	os	38	34	-	-	0.0	11 th		Newquay	b	o	42	36	-	-	0.0	
	Bournemouth	*	*	o	o	-	-	0.0	11 th		Bude	o	bco	45	36	-	-	0.0	
	Ilfracombe	o	o	o	o	-	-	0.0	11 th		Weston-s-Mare	o	bco	42	36	-	-	0.0	

STATIONS.		SUMMARIES FOR PAST 24 HOURS.								BEAUFORT NOTATION.								THE BEAUFORT SCALE OF WIND FORCE.		
		WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	RAINFALL.		Sun. Hours.	limits of Velocity at about 10 feet above ground.	No.	Statute miles per hour.	Metres per second.							
7h-18h/T.	18h-18h/T.	18h/L-1h/L	1h-7h A.	Day.	Night.	mm.	mm.	mm.	mm.	7h-18h	18h-18h/T.	7h-18h	18h-18h/T.	7h-18h	18h-18h/T.	7h-18h	18h-18h/T.	7h-18h	18h-18h/T.	
Renfrew	osfo, 3f	o, 3f	o, 3f	53	35	40	35	32	-	0.1	0	0	0	0	0	0	0	0	0	
Eskdalemuir	bbc, o	oo, o	o, o	35	27	22	-	0.2	-	0.0	1	3	1	3	1	3	1	3	1	
Valencia (Cahirc'A)	bbc, bcc	co, o	o, opd,	o	48	39	37	-	-	2.5	7	8.12	5.4	6.4	7	8.12	5.4	6.4	7	8.12
Baldonnel	osfd, osf	o, 3f	o, 3f, os	40	30	22	-	1	0.0	1	1	1	1	1	1	1	1	1	1	
MANCHESTER (ALEX)	osfo, 3f	osf, osf	osf, osf	39	31	23	21	2.3	0.1	1.2	2	3	2	3	2	3	2	3	2	3
Ross on Wye	osfo, osf	o, 3f, pd	o, 3f, pd	37	30	28	-	-	-	0.0	3	4	3	4	3	4	3	4	3	4
Falmouth	o, 3f, osf	o, 3f, osf	o, 3f, osf	30	25	25	-	-	-	1.7	4	5.12	3.4	4.4	4	5.12	3.4	4	4	5.12
Calshot (Hants)	osf, 3f, g	o, 3f, osf	o, 3f, osf	37	27	25	25	2.5	0.2	0.0	5	6.18	4.5	5.5	5	6.18	4.5	5	5	6.18
Lympne (Folkestone)	cop, os, 3	o, 3f, os	o, 3f, os	34	26	21	21	1	~	0.1	6	7.24	5.0	6.0	6	7.24	5.0	6	7.24	5.0
Aberdeen	o, 3f, bcc	o, 3f, os	o, 3f, os	43	39	34	32	0.2	1	1.2	7	8.31	5.8	6.8	7	8.31	5.8	6	8.31	5.8
Howden	o, 3f, os	o, 3f, os	o, 3f, os	41	36	26	17	1	1	0.8	8	9.38	6.4	7.4	8	9.38	6.4	7	9.38	6.4
Cranwell (Lines)	pr, prs	pr, prs	pr, prs	38	35	27	27	2.7	2.7	0.3	9	10.45	7.5	8.5	9	10.45	7.5	8	10.45	7.5
Felixstowe	DD, DD, 3s	DD, DD, 3s	DD, DD, 3s	36	27	28	27	2.5	2.5	0.3	10	11.54	8.6	7.6	10	11.54	8.6	9	11.54	8.6
Shoeburyness	x, s	rs, ss	rs, ss	35	28	25	25	2.5	2.5	0.3	11	12.63	9.7	8.7	11	12.63	9.7	10	12.63	9.7
Benson	o	o	o	36	28	27	27	2.5	2.5	0.3	12	13.72	10.8	9.8	12	13.72	10.8	11	13.72	10.8
S. Farnborough	ps, o, 2f	o, 2f, ss	o, 2f, ss	36	24	21	21	2.1	2.1	0.0	1	14.81	11.9	10.9	1	14.81	11.9	1	14.81	11.9
London (Kew Obsy.)	pr, os, 3ps	o, 2f, rs	o, 2f, rs	37	26	29	29	2.9	2.9	0.5	2	15.9	13.0	12.0	2	15.9	13.0	1	15.9	13.0
Croydon	os, os, os	o, 2f, rs	o, 2f, rs	36	19	19	19	0.1	1	0.2	3	16.98	14.1	13.1	3	16.98	14.1	2	16.98	14.1

LONDON, OBSERVATIONS.	WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rain- fall. mm.	Sun- shine to Sunset. Hours.	Humidity %	SOUTH KENSINGTON (Meteorological Office).		TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.		
	Morning.	Afternoon.							12 th DECEMBER 1920.	Stations.	Sunrise	Noon	Sunset
									Total	joules.	Milliwatts.	Milliwatts.	Milliwatts.
Greenwich (Royal Observatory)	o, b, o	os	o, 3f	37	21	32	5						



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B21,571 ... MONDAY, 13TH DECEMBER 1920.

STATIONS.		OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 12H AND 18H.																										
		BAROM. at M.S.L. mb.	1 Change in 3 hours	WIND.		TEMP. °F.	Humid. % 0-9	Vis. 0-9	Height of Low Cloud. Feet.	Low Cloud		Upper Cloud		Sea	BAROM. at M.S.L. mb.	1 Change in 3 hours	WIND.		TEMP. °F.	Humid. % 0-9	Vis. 0-9	Height of Low Cloud. Feet.	Low Cloud		Upper Cloud		Sea	
				Dir.	Force 0-12					Form.	Amt. 0-10	Form.	Amt. 0-10				Dir.	Force 0-12				Form.	Amt. 0-10	Form.	Amt. 0-10			
18H. G.M.T. 12 th																												
Renfrew ...	10215	-3	NNE	5	0750	36	85	4	1,250	NB	10	ASC	2	*	10212	-1	NE	4	02f	38	92	4	1,250	S2	10	-	-	2
Eskdalemuir ...	10230	-3	NNE	4	050	34	85	7	2,000	NB	7	*	*	*	10221	-1	NE	6	bc	35	92	6	1,250	S2	4	-	-	3
Valencia (Cahirc) ...	10211	-1	ENE	3	b	41	75	8	5,700	Cu	2	-	-	*	10210	0	EME	3	b	35	75	8	5,700	Cu	1	-	-	3
Baldonnel ...	10213	-2	NE	2	c	32	85	5	2,000	SC	7	-	-	*	10189	-1	MME	2	02f	36	92	4	750	S2	10	-	-	2
Manchester (Alex. Pk)	10190	-3	E	1	03f	34	85	3	3,000	SC	10	-	-	*	10180	+1	ENE	2	03f	31	97	3	3,000	NB	9	-	-	2
Ross on Wye ...	10186	-1	NE	2	c	31	92	7	3,000	SC Cu	7	-	-	*	10185	0	ESE	2	b	27	75	6	2,000	Cu	1	-	-	2
Falmouth ...	10162	-2	NNE	3	bif	36	75	6	2,000	SC Cu	2	-	-	*	10159	-1	MME	3	bcx	31	75	5	-	Cu	1	-	-	2
Calshot (Hants) ...	10170	-3	NE	4	bce	30	97	6	3,000	SC Cu	5	-	-	*	10177	+1	ME	4	02f	31	85	5	2,000	ST	10	-	-	3
Lymne (Folkestone) ...	10187	-1	SE	2	b2	31	75	6	2,000	SC Cu	5	-	-	*	10194	+2	E	1	b2	25	75	5	2,000	SC	2	-	-	2
Aberdeen ...	10272	-1	ESE	5	03f	39	97	7	2,000	NB	10	-	-	*	10275	0	E	5	o	40	75	8	2,000	CuNb	10	-	-	4
Howden ...	10183	-4	-	0	050	31	97	3	750	NB	10	-	-	*	10192	+3	-	o	32	97	3	750	NB	10	-	-	2	
Cranwell (Lines) ...	10184	-3	NNW	3	o	28	92	3	2,000	NB	10	-	-	*	10198	+2	ESE	3	o	27	97	3	2,000	SCu	10	-	-	2
Felixstowe ...	10192	0	NNW	2	c	28	85	5	5,700	SC Cu	5	A.S.C.	1	*	10204	+2	H	1	b2	21	97	5	-	-	-	-	0	
Shoeburyness ...	10188	-1	-	0	c	25	75	6	4,200	SC Cu	5	A.Cu	3	*	10194	+1	-	o	15	65	3	-	-	-	-	0		
Benson ...	10181	0	ENE	1	b	31	75	5	-	Cu	1	-	-	*	10188	0	-	b3fx	24	85	S	-	-	-	-	0		
S. Farnborough ...	10178	-1	ENE	1	bwm	35	85	3	3,000	SC	1	-	-	*	10186	?	E	1	bwm	23	97	3	2,000	ST	2	-	-	2
London (Kew Obs.) ...	10181	-3	-	0	c-f	28	85	2	2,000	SC	8	-	-	*	10190	+1	ESE	1	b5f	25	85	2	-	-	-	-	0	
Croydon ...	10192	-1	-	0	b3fx	27	75	3	-	-	*	*	*	*	10198	+1	SE	1	b2	22	85	3	-	-	-	-	0	
1H. G.M.T. OF 13 th																												
Renfrew ...	10219	0	NE	4	0750	34	92	5	1,250	NB	10	-	-	*	10216	-2	NE	4	02f	33	92	4	1,250	ST	10	-	-	2
Eskdalemuir ...	10200	-2	ENE	3	bcm	38	=	=	* * *	SC Cu	9	-	-	*	10186	+1	ENE	3	bX	34	95	7	3,000	ST	2	-	-	2
Valencia (Cahirc) ...	10186	+1	NE	4	o	36	75	4	1,250	SC Cu	9	-	-	*	10197	+1	-	o	27	92	4	1,250	ST	7	-	-	2	
Baldonnel ...	10186	-	-	-	-	*	*	*	*	*	*	*	*	*	10211	0	NE	2	bwm	18	92	4	-	-	-	-	0	
Manchester (Alex. Pk)	10198	-	-	-	-	*	*	*	*	*	*	*	*	*	10195	+1	E	1	bX	20	85	5	-	-	-	-	0	
Koss on Wye ...	10185	-	-	-	-	*	*	*	*	*	*	*	*	*	10119	-1	NE	5	o	38	75	7	-	ST	10	-	-	0
Falmouth ...	10173	-3	NNE	23	0X	32	75	7	-	SC Cu	10	-	-	*	10176	0	ENE	5	0f	30	97	6	2,000	ST	10	-	-	4
Calshot (Hants) ...	10173	0	ENE	5	bif	32	97	6	2,000	ST	10	-	-	*	10188	-1	ESE	4	02f	27	85	5	750	ST	10	-	-	0
Lymne (Folkestone) ...	10192	0	E	4	b	26	85	5	-	-	-	-	-	*	10254	-1	BSE	5	o9	41	85	8	2,000	CuNb	10	-	-	5
Aberdeen ...	10215	0	-	0	b4fx	20	97	2	<500	Br	3	-	-	*	10211	0	-	o	24	97	2	1,250	ST	10	-	-	2	
Howden ...	10215	0	N	1	b1	97	4	-	-	-	-	-	-	*	10218	0	NW	2	02f	15	97	2	<500	ST	10	-	-	2
Cranwell (Lines) ...	10204	-1	NNE	3	o	27	95	5	3,000	ST	10	-	-	*	10199	-1	ENE	3	o	33	97	5	3,000	SCu	10	-	-	2
Felixstowe ...	10215	-	-	-	-	*	*	*	*	*	*	*	*	*	10191	0	N	1	b3fx	24	75	3	4,200	SCu	3	-	-	2
Shoeburyness ...	10195	-	-	-	-	*	*	*	*	*	*	*	*	*	10186	0	NG	2	0X	21	85	4	-	SC	10	-	-	2
Benson ...	10195	-	-	-	-	*	*	*	*	*	*	*	*	*	10194	0	-	o	23	85	2	1,250	ST	10	-	-	2	
S. Farnborough ...	10193	0	-	0	b2	22	=	=	*	*	*	*	*	*	10203	-1	-	o	18	85	3	1,250	ST	10	-	-	2	
London (O.M. at 1m)	10206	0	ESG	2	b2	16	85	5	-	-	-	-	-	*	10203	-1	-	o2fx	18	85	3	1,250	ST	10	-	-	2	
Croydon ...	10206	0	ESG	2	b2	16	85	5	-	-	-	-	-	*	10203	-1	-	o2fx	18	85	3	1,250	ST	10	-	-	2	
STATIONS CONTRIBUTING REPORTS AT 7H. AND 12H.																												
STATIONS.		BAROM. at M.S.L. mb.	TEMP. °F.	Wind.	Weather.	BAROMETER.		TEMPERATURE.	WIND.		Dir.</th																	

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 13. 12.20.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull to fair, fog inland	Indif.	Slight
2. E. England	Dull, misty, snow lying.	Fair.	Smooth
3. E. Midlands	Dull, frosty.	Poor.	-
4. W. Midlands	Fine to dull, misty, frosty.	Poor	-
5. S.W. England	Dull, some snow. local squalls.	Fair	R. Rough
6. South Wales	Fine, misty.	Fair.	Smooth
7. North Wales	Fine, frosty.	Good.	Slight
8. N.W. England	Fine to dull; misty.	Indif.	Smooth
9. N. Midlands	Fine to dull; misty.	Poor.	-
10. N.E. England	Dull; drizzle or snow showers.	Indif.	Mod.
11. E. Scotland	Dull, squally.	Good.	R. Rough
12. S.W. Scotland	Dull, misty.	Fair.	Slight
13. Isle of Man	Cloudy.	Indif.	Smooth
14. N. & N.W. Scot- land	Cloudy, squally.	Good.	Mod.
15. Hebrides	Fine.	Good.	Smooth
16. Orkneys and Shetlands	Cloudy.	Fair.	Slight
17. N.W. Ireland	Fair.	Good.	Mod.
18. N.E. Ireland	Dull	Good.	Slight
19. S.E. Ireland	Fine to cloudy.	Fair.	Smooth
20. S.W. Ireland	Fine, frosty.	Good.	Smooth.

GENERAL INFERENCE from observations received up to 9h. G.M.T.

Pressure is still highest over Scandinavia and relatively high in the North of these Islands, while a depression lies over the Mouth of the English Channel. North-East and East winds are consequently still probable, with some snow showers in several localities. Temperature is likely to continue low over England for several days.

Districts.	Forecasts for the 24 hours commencing 15 h G.M.T. Monday 13th December 1920.
1. S.E. England	
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	



EXPLANATION.

BAROMETER.—Isobars are drawn.
Intervals of two millibars.

WIND.—Direction is shown by arrow flying with the wind. Force 0-12, is indicated by the number of feathers. Mean velocity is given in miles per hour by figures in small circles.

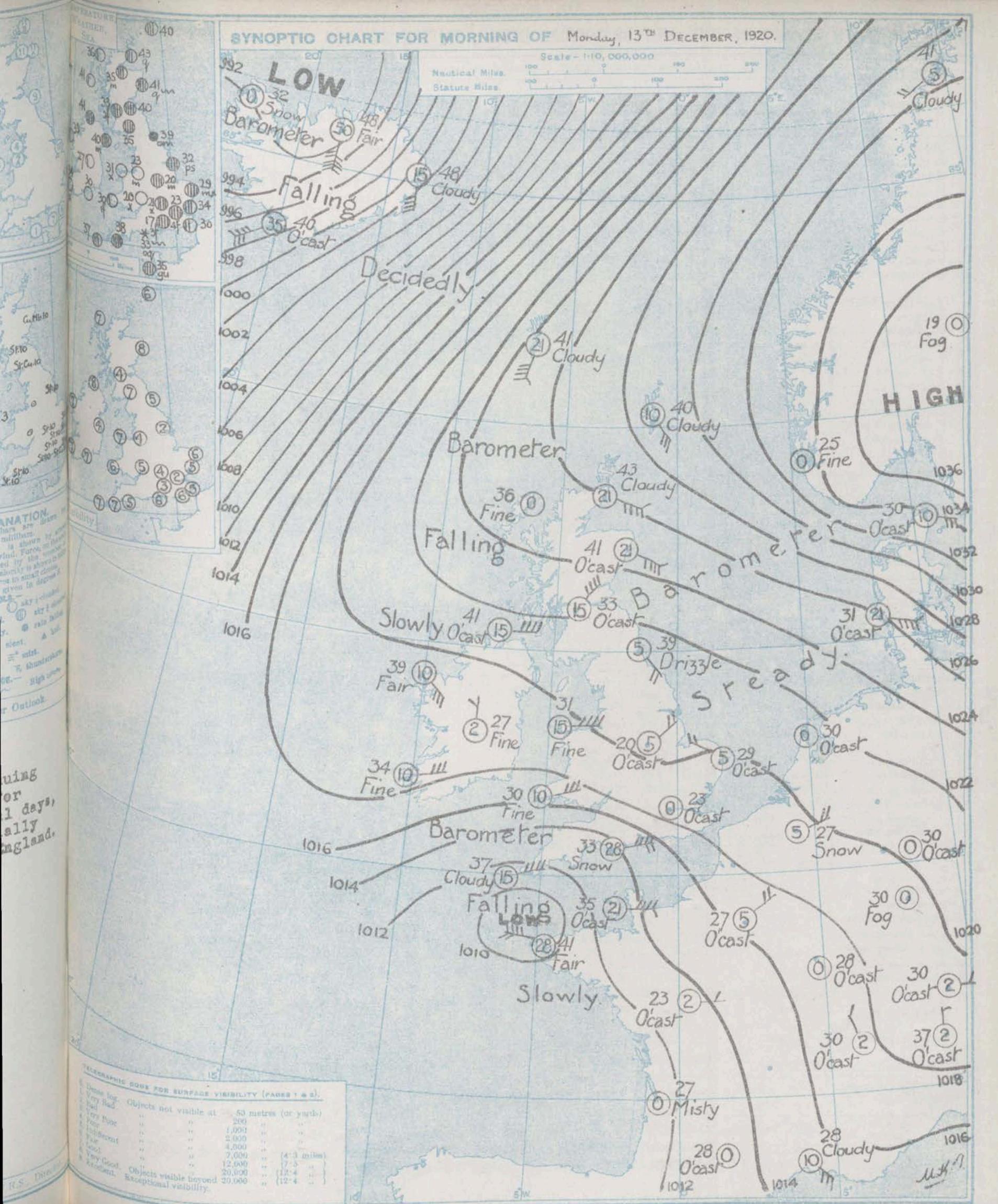
TEMPERATURE is given in degrees F.

WEATHER SYMBOLS.

- clear sky.
- sky 1 clouded.
- overcast sky. ○ rain.
- * snow. ○ sleet. ▲ hail.
- ☰ fog. ☛ mist.
- T thunder. ☢ lightning.
- SEA STATE CHANGE.—
Bouguer. High seas.

Further Outlook

Continuing
cold for
several days,
especially
over England.



DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. NO. 348

MONDAY
13TH DECEMBER

WEATHER, TEMPERATURE RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 12 TH																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. F.	Min. F.	Night 18h-19h	Day 19h-20h	Sunrise to Sunset 12-12 ^h	12-12 ^h			Forenoon.	Afternoon.	Max. F.	Min. F.	Night 18h-19h	Day 19h-20h	Sunrise to Sunset 12-12 ^h	12-12 ^h
Scotland	Oban	-	-	-	-	-	-	-	-	England, N.W.	Douglas (I.O.M.)	-	-	-	-	-	-	0.1	0.1
	Banff	0	0	39	32	0.2	-	-	0.0		Blackpool	0.0	c	36	30	0.2	0.2	-	0.3
	Montrose	-	-	-	-	-	-	-	-		Southport	c-0.5	b-c-b	34	29	Trace	1	-	0.3
	St. Andrews	-	-	-	-	-	-	-	-		Morecambe	-	-	-	-	-	-	-	-
England, N.E.	Harrogate	c5	c5	33	30	1	1	-	0.0	Midlands	Buxton	-	-	-	-	-	-	-	-
	Scarborough	-	-	-	-	-	-	-	-		Leamington Spa	c-6	0.5	31	26	0.1	-	-	1.0
	Skegness	-	-	-	-	-	-	-	-		Malvern	-	-	-	-	-	-	-	-
	Lowestoft	-	-	-	-	-	-	-	-		Bath	b-bc	b-bc	32	27	-	-	-	1.8
England, S.E.	Felixstowe	0.95	cw	35	24	18	-	-	0.0	Wales	Rhyl	b-c-c	95	36	32	-	2	0.7	0.6
	Southend-on-Sea	x-c-c	bw	35	24	3	-	-	1.5		Colwyn Bay	b	36	33	-	2	3	0.7	
	Tunbridge Wells	b	b	29	23	0.4	-	-	3.5		Llandudno	c-c	cst	39	33	0.1	-	-	-
	Margate	0.5	0.5	?	?	6	-	-	1.4		Aberystwyth	-	-	-	-	-	-	-	-
England, S.W.	Ramsgate	-	-	38	23	4	-	-	2.5		Tenby	-	-	-	-	-	-	-	-
	Folkestone	sx, bc	b-c-c	38	28	Trace	-	-	2.5		Swansea	-	-	-	-	-	-	-	-
	Hastings	c-c, 0.5	c-c, bc	34	28	Trace	0.1	0.3	-	England, S.W.	Weymouth	c-c	0.5, 0	32	29	-	1	0.0	0.0
	Eastbourne	0	0	23	30	0.3	0.1	0.0	-		Teignmouth	-	-	-	-	-	-	-	-
England, E.	Brighton	-	-	32	28	0.4	1	0.0	-		Torquay	-	0	35	33	-	-	0.0	0.0
	Worthing	b-c-c	c-c	31	28	3	-	-	0.6		Paignton	-	5	35	30	-	-	-	-
	Littlehampton	-	-	-	-	-	-	-	-		Penzance	-	a-c	40	34	-	-	3.0	3.0
	Portsmouth (S'heads)	s	s	31	26	2	6	0.3	-		Newquay	-	c-b	35	30	-	-	2.0	2.0
England, C.	Bournemouth	*	*	30	27	1	1	0.0	-		Bude	x-bc-b	b	35	30	-	-	5.0	5.0
	Ventnor (I. of W.)	*	*	*	*	-	-	-	-		Iffracombe	d-bc	b-c	36	34	-	-	2.2	2.2
STATIONS.		SUMMARIES FOR PAST 24 HOURS.																	
		WEATHER.				Max. Temp. F.	Min. Temp. F.	Min. on Grass F.	RAINFALL.		Sun. Hours.	BEAUFORT NOTATION.							
7h-18h 12 ^h		18h-18h 12 ^h	18h-18h 12 ^h	18h-18h 12 ^h	1h-18h 12 ^h	Max. Temp. F.	Min. Temp. F.	Min. on Grass F.	Day 7h-18h	Night 18h-19h	12h-7h	b	blue sky (not more than a quarter covered).	THE BEAUFORT SCALE OF WIND FORCE.	Used only for surface observations.				
Renfrew		b-c, 0.5	0.2, f	c-c, p	0.2, p	38	31	33	mm.	0.5	1	1.5	bc	sky partly cloudy (one half covered).	Limits of Velocity at about 30 feet above ground.	No. Statute miles per hour.			
Eskdalemuir		b-c, 0.5	0.2, c, 0.5	c-c, b-c, p	b-c, b-c, 0.5	36	27	32	0.2	2	0.7	-	c	generally cloudy (three quarters covered).	Meiles per second.				
Valencia (Cahircu)		c-c, b-c, 0.5	b-b-b-c	b	b	41	33	27	-	-	6.0	-	d	drizzle, or fine rain.	Less than 1	Less than 0.8			
Baldonnel		c-c, s	5.5, 0.2, f	b-c-c, p	c-c, p	31	26	24	2	3	0.1	-	e	wet air without rain falling.	1-2	0.8-1.2			
Manchester (Altr, PK)		b-c-f	4-5, 0.5, c-c, p	b-c, b-c, b	b-c, b-c, b	36	16	15	1	-	-	-	f	fog, gloom.	2-7	1.2-2.4			
Ross on Wye		hs, c, 0	b-c, b-c, b	b-c, b-c, b	ox	32	20	17	-	-	1.7	-	g	hail, lightning.	8-12	2.4-3.2			
Falmouth		c, b-c, 0.5	2-5, c, 0	b-c, b-c, c	o	39	27	25	-	-	4.5	-	h	mist, overcast sky.	13-18	3.2-4.0			
Calshot (Hants)		5.5, 0.2, f	0.5, 0.2, f	p-c, p	0.5, p	34	28	28	1	-	0.4	-	i	passing showers.	18-24	4.0-4.8			
Lympne (Folkstone)		c-b-c, b-c, b	b-c, b-c, b	b-c, b-c, b	b-c, b-c, b	31	21	15	0.1	-	2.0	-	j	squalls, rain.	25-31	5.0-6.0			
Aberdeen		c-p, 0.5	p-h, o	p-h, q	4-1	36	35	1	3	-	0.0	-	k	sleet, rain and snow together.	32-38	6.0-7.2			
Howden		s, x	5.5, 5.5, 5.5	=je	36	20	16	7	-	0.0	-	l	snow, thunder.	39-43	7.2-8.4				
Cranwell (Lincs)		hs, ss	5.5, 5.5	c-c-c, f, b-c	b-c	29	4	2	3	0.1	0.0	-	m	ugly, threatening sky.	44-50	8.4-10.4			
Felixstowe		ss	b-c, b-c	b-c, b-c	b-c, b-c	33	19	8	2	-	0.5	-	n	unusual visibility.	51-58	10.4-12.4			
Shoebury Ness		ss, b-c	x-c, f	x-c, f	x-c, f	28	9	14	-	-	0.0	-	o	dew, hoar frost.	59-68	12.4-15.4			
Benson		b-b, b-c	b	b	b	32	20	13	-	-	0.0	-	p	dry air; humidity less than 60 per cent.	69-78	15.4-18.4			
S. Farnborough		b-c, b-c	b-c, b-c	b-c, b-c	b-c, b-c	35	17	6	-	-	3.6	-	q	dust haze; the turbid atmosphere of dry weather.	79-88	18.4-21.4			
London (Kew Observatory)		c-c, f	b-c, b-c	b-c, b-c	b-c, b-c	28	20	10	-	-	0.0	-	r	Capital letters indicate intensity, and repetition of letters continuity, thus:-	89-98	21.4-24.4			
Croydon		b-c, b-c, f	b-c, b-c, f	b-c, b-c, f	b-c, b-c, f	28	10	8	-	-	0.0	-	s	R = heavy rain.	99-108	24.4-27.4			
LONDON OBSERVATIONS		Morning	WEATHER.	Night	Max. Temp. F.	Min. Temp. F.	Min. on Grass F.	Rainfall mm.		Sunshine Hours.	15 h. G.M.T.	19 h. G.M.T.	SYMBOLS.						
								12 HOURS ENDED 9H G.M.T. 13 ^h		YESTERDAY.	To-DAY.		Aurora						
Greenwich (Royal Observatory)		b-f	b-b-c, f	b-c, f	29	16	13	-	1.5	89	84		II	Solar halo					
City (Bushill Row)		*	*	*	*	*	*	*	0.0	*	*		III	Lunar halo					
Westminster (St. James's Park)		*	*	*	38	22	22	-	0.0	69	85		IV	Solar corona					
Regents Park (Botanical Garden)		*	*	*	*	*	*	*	0.0	*	*		V	Lunar corona					
Camdon Sq. (British Railways)		-	-	*	27	12	17	-	*	-	70	Total 100 Joules.							
Kennington Palace		of	of	*	30	16	9	-	*	80 (18h)	91	Milliwatts.	Wick	8.56	12.7	Surface			
Hampstead Observatory		*	*	*	26	18	16	-	0.0	*	85	Average Rate. 3.6	Valencia	8.43	12.35	Surface			
												Maximum Rate. 12							
Photographic Record of Pole Star (Polaris) and of 8 Ursae Minoris at Greenwich Observatory.																			
Exposure from.....h.....m.																			
to.....h.....m.																			
Start.	Duration of Exposure.	Duration of Record.																	
Polaris & 8 Ursae Minoris	a. m.	b. m.	%																

* Information for these columns not usually received.

† Trace = rain has fallen but amount less than 0.1 mm.

Temperature remained below 32° over a large portion of England and fell to below 20° during the night; at Manchester the minimum was 16°, Nottingham 13°, Croydon 10°, and at Shoebury Ness 9°. Minima below 20° were reached in some parts of the London area. Snow fell in many places, the largest measurement being 5mm at Liverpool and Baldonnel. At Tynemouth the measurement of rain and



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B. 21,572

TUESDAY... 14TH DECEMBER.... 1920.20.
ES ENDED 7H... 14TH

TEMPERATURE.

Max.
°F.Min.
°F.41
52
54
55
59
63
7?
69
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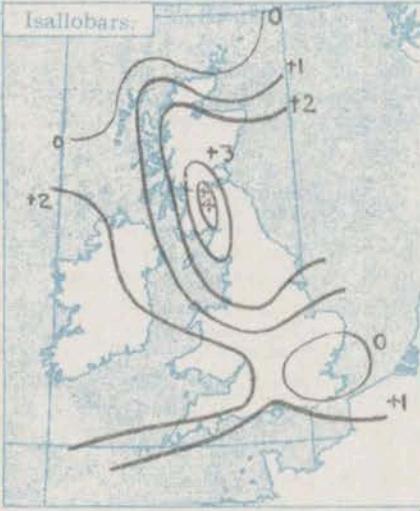
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SUMMARY OF CONDITIONS AT 7 h.G.M.T. 14.12.20.

Districts	Weather, Cloud and Precipitation	Visibility	Sea	Temperature reported from Coastal and Cross Channel Steamers				
				Position-Number	Date	Time G.M.T.	Sea °F	Air °F
1. S.E. England	Dull, misty, snow lying.	Indiff.	Moderate	6	13°	0854	51	45
2. E. England	Dull; misty, snow lying.	Fair.	Mod.	6	13°	?	50	34
3. E. Midlands	Dull.	Poor	-	4A	14°	0430	41	37
4. W. Midlands	Dull, misty, snow lying.	V.poor.	-					
5. S.W. England	Mainly dull, local sleet.	Fair.	R.rough					
6. South Wales	Dull, misty.	Indiff.	Smooth					
7. North Wales	Variable sky, local mist.	Indiff.	Smooth					
8. N.W. England	Dull, local mist.	Poor.	Smooth					
9. N. Midlands	Dull, misty.	Poor	-					
10. N.E. England	Dull, local mist & showers	Poor	Slight					
11. E. Scotland	Coudy or dull, local							
12. S.W. Scotland	Cloudy, or dull; misty. (drizzle)	Fair	Mod.					
13. Isle of Man	Cloudy.	Indiff.	Smooth					
14. N. & N.W. Scotland	Variable sky, some mist.	Var.	Mod.					
15. Hebrides	Fine or fair.	Good	Mod.					
16. Orkneys and Shetlands	Dull, squally.	Indiff.	R.rough					
17. N.W. Ireland	Fine or fair.	Good	Smooth					
18. N.E. Ireland	Fair to dull, local mist	Var.	Slight.					
19. S.E. Ireland	Fair or dull, local fog.	Var.	Slight.					
20. S.W. Ireland	Fine.	Good.	Slight.					



Barometric change from 4 h. to 7 h. (half millibars).

GENERAL INFERENCE from observations received up to 9h. G.M.T.

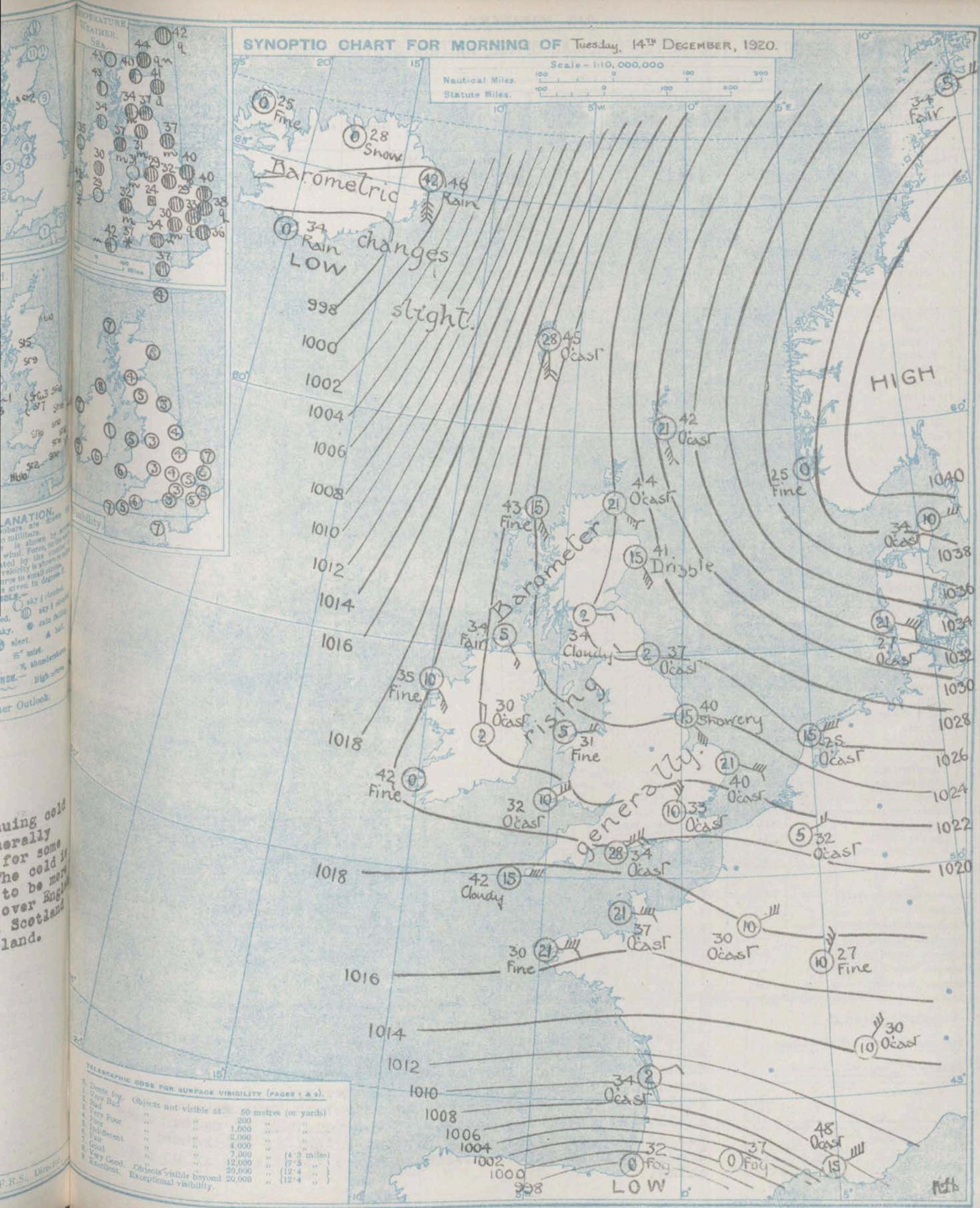
There are no indications of any important change in the pressure distribution. The anticyclone centred near Scandinavia appears to be expanding in all directions and increasing in intensity. The barometer is rising slowly over these Islands. A rise of temperature may occur in most districts but frost may be expected to return very shortly - especially over England.

Districts	Forecasts for the 24 hours commencing 15 h. G.M.T. Tuesday, 14th December 1920.
1. S.E. England	
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	Wind E or NE, light or moderate, cloudy or dull to fairer some snow or sleet showers locally. Visibility indifferent to fair. Temperature below the normal, frost in most places at night.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	Wind mainly SE, light or moderate, fresh locally, mainly cloudy or overcast. Visibility fair. Temperature moderate, then falling.
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	Wind mainly Easterly, light; fair or cloudy, visibility fair, cold, frost at night.
20. S.W. Ireland	



Further Outlook.

Continuing cold and generally frosty for some days. The cold is likely to be more severe over England than in Scotland and Ireland.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No 349.

TUESDAY
14th DEC⁸ 1910

WEATHER, TEMPERATURE RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 13 TH																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night. 18h-9h.	Day. 9h-18h.	Sunrise to Sunset. 13 Th	13 Th			Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night. 18h-9h.	Day. 9h-18h.	13 Th	Sunrise to Sunset. 13 Th
Scotland.	Oban	c.b.c.o	o	48	33	-	-	15	0.0	England, N.E.	Douglas (I.O.M.)							0.0	
	Banff	r.o	or	41	36	1	1	0.0			Blackpool	... ...	0.m		30	23	-	-	0.0
	Montrose	...	...	op.	42	38	4	1	0.0		Southport	... ...	03.03	03	29	19	-	-	0.0
	St. Andrews	...	...	op.	op.	42	38	4	1	0.0	Morecambe	...	32	25	-	2			
England, N.E.	Harrogate	os	s.o.c	32	23	3	2	0.0		Midlands.	Buxton	... ...						0.0	
	Scarborough	os	or	38	31	1	2	0.0			Leamington Spa	... ...	0	0	25	11	2	-	0.0
	Skegness	...	op. o	os	30	11	4	0.4	0.0		Malvern	... ...	0	0	25	18	-	-	16
	Lowestoft	...									Bath	... ...	b.c	b.c.c.o	28	22	-	-	37
England, E.	Felixstowe	0c.	0c.	36	23	-	0.4	0.0		Wales.	Rhyl	... ...	xc	xc	34	17	1	-	40
	Southend-on-Sea	xc.0m	xc.0	30	20	-	-	0.0			Colwyn Bay	...	-	-	30	21	-	-	48
England, S.E.	Tunbridge Wells	o	o	31	22	-	-	0.0			Llandudno	...	b	60	33	22	0.3	-	20
	Margate	o	o	36	25	-	-	0.0			Aberystwyth	... ...	c.b.o	c.0.0	30	25	2	-	
	Ramsgate	...	*	*	36	27	-	-	0.0		Tenby	...							
	Folkestone	xc.0	o	35	27	-	-	0.0		Swansea	...								
	Hastings	o	0.3.0	35	27	-	b.c.e	0.0		England, S.W.	Weymouth	... ...	o.0	qs	32	29	5	0.3	0.0
	Eastbourne	o	o	43.225	31	-	-	0.0			Teignmouth	...							
	Brighton	o	o	33	27	-	-	0.0			Torquay	... ...	os.c.g	c.0	36	31	5	-	0.0
	Worthing	o	o	33	27	-	-	0.0			Paignton	... ...	ospq	ospq	37	29	4	-	0.0
	Littlehampton	-	-	33	26	-	-	0.0			Penzance	... ...	ps. bc	ps. bc	36	28	1	0.2	12
	Portsmouth (S'thsea)	s	*	31	27	-	-	0.0			Newquay	... ...	xc. bc	bc. ps. b	34	27	-	-	18
	Bournemouth	*	*	31	27	1	1	0.0			Bude	... ...	b	6	33	28	-	-	25
	Ventnor (I. of W.)	*	*								Ilfracombe	... ...	b.b.c	b.c.c	34	30	-	-	28
											Weston-s-Mare	... ...	c. bc	bc. cm	37	24	-	-	21

STATIONS.	SUMMARIES FOR PAST 24 HOURS.											BEAUFORT NOTATION. b blue sky (not more than a quarter covered). bc sky partly cloudy (one half covered). c generally cloudy (three quarters covered). d drizzle, or fine rain. e wet air without rain falling, f fog. g gloom. h hail. i lightning. m mist. o overcast sky. p passing showers. q squalls. r rain. rs sleet, i.e., rain and snow together. s snow. t thunder. u ugly, threatening sky. v unusual visibility. w dew. x hoar frost. y dry air; humidity less than 60 per cent. z dust haze; the turbid atmosphere of dry weather. Capital letters indicate Intensity, and repetition of letters continuity, thus:- R = heavy rain. rr = continuous moderate rain. rrr = continuous light rain.	THE BEAUFORT SCALE WIND FORCE. Used only for surface observations.
	WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	RAINFALL.			Sun. Hours.		
	7h-13h ^{1/2}	13h-18h ^{3/4}	18h ^{1/2} -1h ^{1/4}	1h-7h ^{1/4}				Day.	Night.	1h-7h			
Renfrew ...	02f 6.01f	01f dcd.	c0f	bcc 2f	40	34	29				6.0		
Eskdalemuir ...	02f pd. 01f	1f. 01f	dd. rs	rs. 02f	36	30	27	2	1		0.0		
Valencia (Cahirc'n)	bbt. b	b	bbc x	bbc x	29	22		-	-		6.3		
Baldonnel ...	x. 02f 002f	9.2f	02f	bcc 4f 04f RH	34	21	13	0.1	1		0.0		
Monchasker (Oxen. Ph.)	03f	03fs. 04sf	c0x	03f	33	16	22	-	0.2		7		
Ross on Wye ...	bcc 02f 002f	02f xc	03f 5.	ps. 03f	27	22	19	-	0.3		0.6		
Falmouth ...	01f. 9.	01f. 03f/3f	bb2f x. rcd	0	38	29	27	2	1		0.0		
Calshot (Hants) ...	0.1f	03f. 5.	03f 02f	02f 03f	35	28	29	-	-		0.0		
Lympne (Folkestone) ...	c0 02f	02f. 8.	02f	02f	34	31	30	trace	-		0.0		
Aberdeen ...	prh. 9	prh. - p.	p. 9	p. 9	42	40	38	2	5		0.0		
Howden ...	38 ~	5.30 ~	04sf 55	02f ~	33	23	24	4	# 1		0.0		
Cranwell (Lincs) ...	03f/5	02f. ps.	ps. 03f	02f	32	15	26	93	1		0.0		
Felixstowe ...	01f. 0	5d. 02f	01f. 02f	02f. 04f	39	30	8	1	-		0.0		
Shoeburyness ...	3f. c. 0	3f. 4.5f	03f	03f. 02f	36	20	28	-	-		0.0		
Benson ...	oc	0	05.	0x	32	20	17	-	0.2		*		
S. Farnborough ...	c. 0.02f	02f ps.	03f	03f	30	17	25	-	-		0.0		
London (Kew Obsy.) ...	30.01f/5f	02f 3.	03f x	02f	33	22	27	-	-		0.0		
Croydon ...	co 02f	02f. 02f	03f prs x	03f x	31	18	*	trace	-		7		

LONDON. OBSERVATIONS.	WEATHER.	Morning.	Afternoon.	Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rain- fall, mm.	Sun- shine to Sunset: Hours	HUMIDITY %		SOUTH KENSINGTON (Meteorological Office).	TABLE SHOWING THE GREENWICH TIME SUNRISE, NOON AND SUNSET FOR STATION IN THE UNITED KINGDOM.
										15 h. G.M.T.	9 h. G.M.T.		
24 HOURS ENDED 9h G.M.T. 14 th													
										YESTERDAY.	TO-DAY.		
Greenwich (Royal Observatory)	○ X	○ X	○	35	24	26	-	○ 0	81	82		Vertical Component of Solar Radiation per Square Centimetre during yesterday.	
City (Bunhill Row) ...	*	*	*	*	*	*	*	○ 0	*	*			
Westminster (St. James's Park)	*	*	*	36	25	25	-	○ 0	86	90			
Regents Pk (Botanical Gdns)	*	*	*	3	2	*	*	○ 0	*	*		Total 48 Joules.	
Camden Sq. (British Rainfall)	○	0.05	*	34	24	20	-	*	93	84		Milliwatts.	
Kensington Palace ...	○	○	*	35	21	26	-	*	84 (18h)	79	Average Rate. 1.7		
Hampstead Observatory ...	*	*	*	33	22	17	-	*	84	84	Maximum Rate. 4		
												14 th + 15 th DECEMBER 1920.	
												Sunrise.	Noon.
													Sunset.
												G.M.T.	G.M.T.
												G.M.T.	G.M.T.
Yarmouth ...												759	1148
												50	1148
Greenwich												90	1150
												81	1150
Wick												857	127
												858	127
Valencia ...												844	1236
												845	1234

Photographic Record of

Pole Star (Polaris) and of δ Ursae

Minor at Greenwich Observatory

Exposure time: 13^h, 17 h, 0 m
to 14^h, 6 m, 45 s

Sizes.	Duration of Exposure.	Diagrams Record.		
	h. m.	h.	m.	%
Polaris	13 45	0	0	-
δ Ursae Minoris	13 45	0	0	-

NOTES ON THE WEATHER OF YESTERDAY.

Temperature remained below 32° over a large portion of England during the day, but rose above it in many localities during the night. The lowest minima reported this morning are 15° at Cranwell and 16° at Manchester. Snow showers fell in many places, but the measurements were generally small. At Plymouth, however, the total fall of melted snow was as much as 22mm. The day was bright in South-west Ireland and in Wales; elsewhere there was little or no sunshine.

* Information for these columns not usually received.

+ Trace = rain has fallen but amount less than 0.1 mm.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B21570

Wednesday, 15th December... 1920.

LONDON

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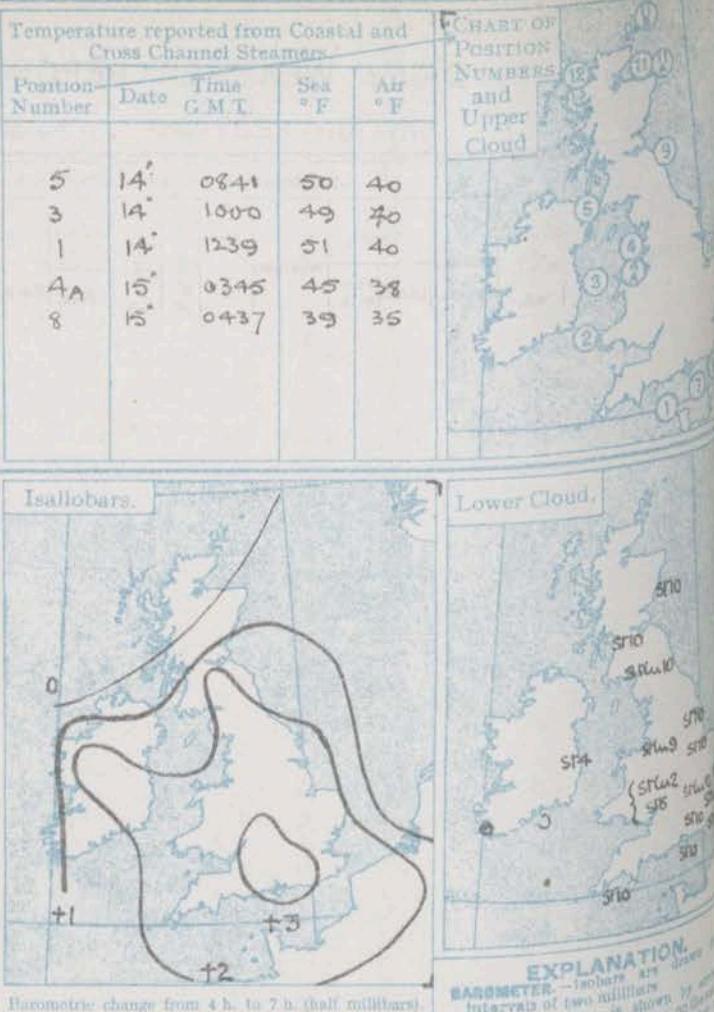
SUMMARY OF CONDITIONS AT 7 h.G.M.T. 15.12.20

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, misty.	Indif.	Mod.
2. E. England	Dull, local squalls.	Fair.	R.Rough
3. E. Midlands	Dull.	Indif.	-
4. W. Midlands	Dull, some mist.	Fair.	-
5. S.W. England	Dull, local squalls.	Fair.	Mod.
6. South Wales	Dull.	Good.	Slight
7. North Wales	Variable sky.	Good.	Mod.
8. N.W. England	Dull, local squalls.	Fair.	Mod.
9. N. Midlands	Dull, misty, snow lying	Indif.	-
10. N.E. England	Dull, snow lying locally.	Var.	Mod.
11. E. Scotland	Dull.	Fair.	Mod.
12. S.W. Scotland	Variable sky, local mist.	Fair.	Smooth
13. Isle of Man	Fair.	Fair.	Mod.
14. N. & N.W. Scotland	Fair to dull.	Fair.	R.Rough
15. Hebrides	Fair to dull.	Fair.	Mod.
16. Orkneys and Shetlands	Dull, squally, local rain.	Indif.	R.Rough
17. N.W. Ireland	Fair or fine.	Fair.	Smooth
18. N.E. Ireland	Fair or fine, some mist.	Fair.	Smooth
19. S.E. Ireland	Fair to dull, local mist.	Var.	"
20. S.W. Ireland	Fine or fair.	Good.	Smooth.

GENERAL INFERENCE from observations received up to

9h. G.M.T.

The large anticyclone which is spreading over these Islands from Scandinavia will still maintain Easterly winds for several days. The weather will probably become fair to bright and the cold increase - especially over England. In Scotland the wind will be South-Easterly for a time and the temperature less low than elsewhere.



Further Outlook

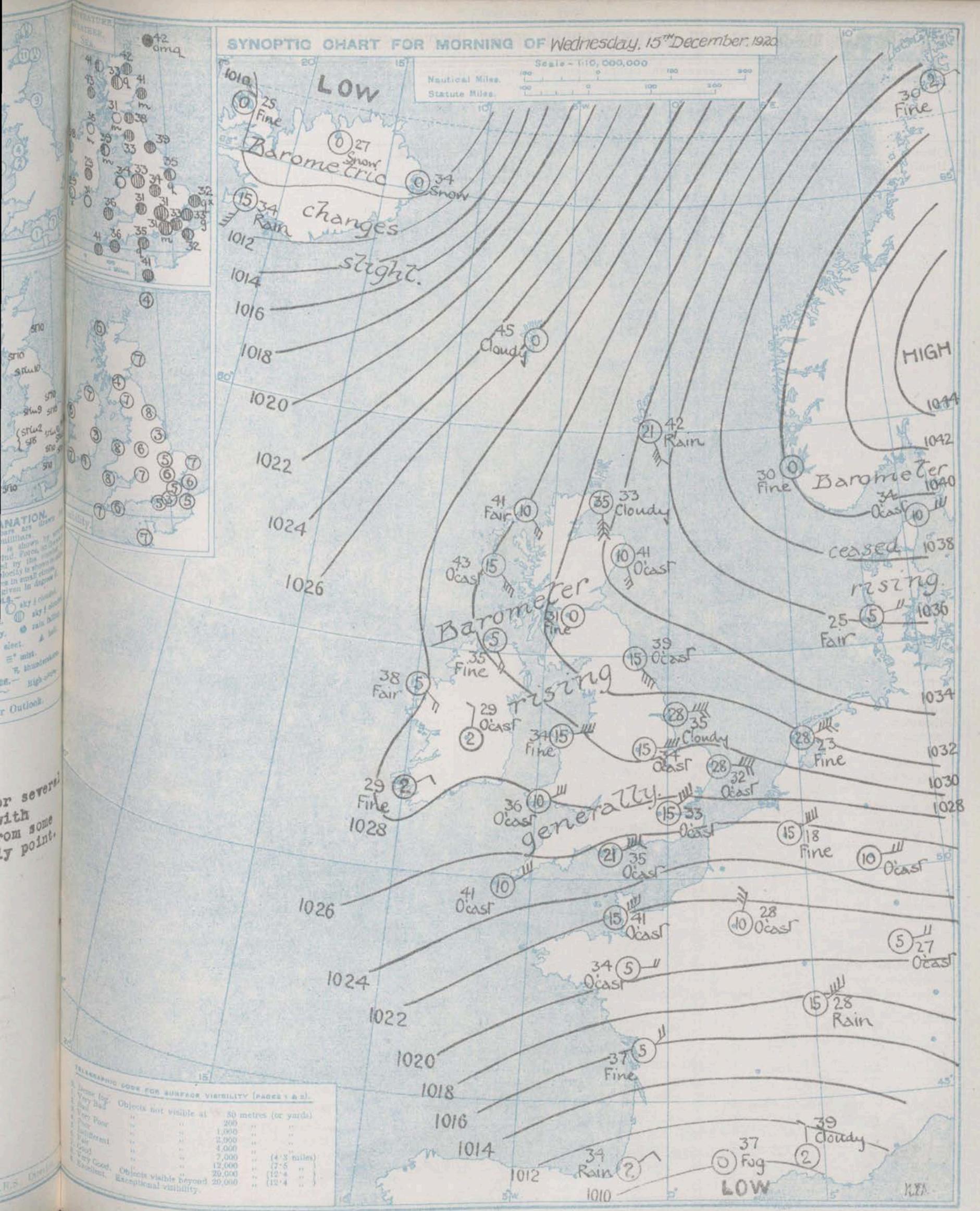
Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Wednesday 15th December 1920.
1. S.E. England	
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	

Cold for several days, with wind from some Easterly point.

Interrogation Office: Air Ministry, Kingsway, London, W.C.2.

Forecasts issued at 0900

G. C. SIMPSON



AIR MINISTRY

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920, No. 360.

Wednesday
15th December

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 15 th DEC.																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h.	Day 19h-20h.	Sunrise to Sunset 14 th	14 th			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 17h-18h.	Day 18h-19h.	Sunrise to Sunset 14 th	
Scotland.	Oban	c.b.c.b	c.b.c.b	47	32	-	-	3.8	0.0	England, N.W.	Douglas (I.O.M.)	-	-	-	-	-	-	-	-
	Banff	0	c.r.c.t.c	42	39	1	1	0.0	0.0		Blackpool	0	0	37	27	1	-	0.0	0.0
	Montrose	-	-	-	-	-	-	-	-		Southport	0.0	0	36	28	0.4	-	0.0	0.0
	St. Andrews	-	-	-	-	-	-	-	-		Morecambe	-	-	39	29	2	-	0.0	0.0
England, E. N.E.	Harrogate	0	0r	34	27	4	2	0.0	0.0	Midlands.	Buxton	-	-	-	-	-	-	-	0.0
	Scarborough	er	0	42	35	0.3	0.3	0.0	0.0		Leamington Spa	0	0	36	22	0.3	-	0.0	0.0
	Skegness	-	-	-	-	-	-	-	-		Malvern	0	0	36	24	1	-	0.0	0.0
	Lowestoft	-	-	-	-	-	-	-	-		Bath	0	c.0	35	24	1	0.3	0.0	0.0
England, S.E.	Felixstowe	c.0.m	c.0.m	40	37	-	-	0.0	0.0	Wales.	Rhyl	x.0	x.0	32	24	0.2	-	0.0	0.0
	Southend-on-Sea	x.0	0	38	25	-	-	0.0	0.0		Colwyn Bay	-	-	34	23	-	-	0.0	0.0
	Tunbridge Wells	0	0m.0	36	30	-	-	0.0	0.0		Llandudno	0	0m	36	26	-	-	0.0	0.0
England, S.W.	Margate	0	0	40	32	-	-	0.0	0.0		Aberystwyth	0.0	c.0	37	25	-	-	0.0	0.0
	Rainsgate	*	*	38	33	-	-	0.0	0.0		Tenby	-	-	-	-	-	-	-	-
	Folkestone	x.0	0	39	32	-	-	0.0	0.0		Swansea	-	-	-	-	-	-	-	-
	Hastings	0	0	39	34	-	-	0.0	0.0		Weymouth	0.0	c.0.0	35	28	1	0.2	0.1	0.0
	Eastbourne	-	-	44	31	-	-	0.0	0.0		Teignmouth	-	-	-	-	-	-	0.0	0.0
	Brighton	0	0	37	32	-	-	0.0	0.0		Torquay	0.0	c.0.0	37	30	7	1	0.0	0.0
	Worthing	0	0	37	31	-	-	0.0	0.0		Paignton	0	cspmr	36	27	7	1	4.0	5.4
	Littlehampton	c.m	c.0.m*	37	30	-	-	0.0	0.0		Penzance	c.0	c.0.0	40	30	2	-	2.7	0.0
	Portsmouth (S. base)	-	-	36	30	-	-	0.0	0.0		Newquay	b	b3	37	27	-	-	0.0	0.0
	Bournemouth	*	*	35	28	-	-	0.0	0.0		Bude	x.0.0	0	36	27	1	-	0.0	0.0
	Ventnor (I. of W.)	*	*	-	-	-	-	-	-		Ilfracombe	c.0	0	40	30	-	-	0.0	0.0
											Weston-s-Mare	osr.0	0	36	25	-	-	-	-

STATIONS.	SUMMARIES FOR PAST 24 HOURS.											BEAUFORT NOTATION. b blue sky (not more than a quarter covered). bc sky partly cloudy (one half covered). c generally cloudy (three quarters covered). d drizzle, or fine rain. e wet air without rain falling. f fog. g gloom. h hail. i lightning. m mist. o overcast sky. p passing showers. q squalls. r rain. rs sleet, i.e., rain and snow together. s snow. t thunder. u ugly, threatening sky. v unusual visibility. w dew. x hoar frost. y dry air; humidity less than 60 per cent. z dust haze; the turbid atmosphere of dry weather.	THE BEAUFORT SCALE OF WIND FORCE. Used only for surface observations. Limits of Velocity at about 30 feet above ground.
	WEATHER.				Max. Temp. F.	Min. Temp. F.	Min. on Gross °F.	RAINFALL. †		Sun. Hours.			
	7h-18h ⁰⁴	18h-18h ⁰⁴	18h ⁰⁴ -1h ⁰⁵	1h-7h ⁰⁵				Day. 7h-18h	Night. 18h-7h				
Renfrew ...	bccord	ccfcfc	ccfc	bbcx	40	31	19	mm.	mm.	0.0			
Eskdalemuir ...	cfcfcfc	ccf	ccfbccbcc	co.0	35	30	27	-	-	0.0			
Valencia (Cabirc'na)	b-bc	b-bc	bbc x	x b	39	26	24	-	-	5.5			
Baldonnel ...	ncfbcc	bcfcf	ccfc	ccfc	34	22	11	-	2	0.0			
Manchester (City, UK)	ccf	ccfcfcfc	ccfc	ccfc	38	31	22	-	-	%			
Ross on Wye ...	ccfcfc	ccfc	ccfc	ccfc	35	24	30	0.1	trace	0.0			
Falmouth ...	ccfcfcfc	ccfcfcfc	ccfcfcfc	ccfcfcfc	40	32	30	-	-	4.5			
Calshot (Hants) ...	ccfc	ccfc	ccfc	ccfc	37	32	31	-	trace	0.0			
Lympne (Kent) ...	ccf	ccf	ccfc	ccfc	36	29	28	-	-	0.0			
Aberdeen ...	ccfc	ccf	ccfc	ccfc	43	40	38	1	-	0.0			
Howden ...	ccfc	ccfc	ccfc	ccfc	37	33	31	1	-	0.0			
Cranwell (Lincs) ...	ccf	ccfcfc	ccfc	ccfc	36	32	31	0.4	-	0.0			
Felixstowe ...	ccfc	ccfc	ccfc	ccfc	41	32	14	0.1	-	0.0			
Shoebury Ness ...	ccfc	o	ccfc	ccfc	39	32	30	-	-	0.0			
Benson ...	o	ccfc	ccfc	ccfc	35	28	29	0.2	0.2	*			
S. Farnborough ...	ccfcfc	ccfcfc	ccfcfc	ccfcfc	35	30	30	1	0.3	0.0			
London (Kew Obs.) ...	ccfc	ccfc	ccfc	ccfc	36	32	32	0.2	trace	0.0			
Croydon ...	ccfcfc	ccfcfc	ccfcfc	ccfcfc	35	31	14	0.4	-	*			

Photographic Record of

Poly Star (Polaris) and of 8 Urban

Missus at Greenwich Observatory

Exposure from 17 h. 0. m.

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.						
Exposure from 17 h. 0. m. to 17 h. 45. m.						
Star.	Duration of Exposure.			Duration of Exposure.		
	H.	M.	S.	H.	M.	S.
Polaris	13	45		0	0	
δ Ursae Minoris	13	45		0	0	-

NOTES ON THE WEATHER OF YESTERDAY

Temperature rose to 35° or above in nearly all places and exceeded 40° in most Western and Northern districts, but frost again occurred at night over a large area. Several hours of bright sunshine were recorded in Ireland and the South-West of England and nearly 4 hours at Oban, but generally the day was very dull. Slight rain or drizzle was experienced in many localities.

* Information for these columns not usually received.

[†] Trace = rain has fallen but amount less than 0.1 mm.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B 24574

Thursday, 16th December, 1920.DON
20.24 HOURS ENDED 7H. 16th

TEMPERATURE.

Max.
F.Min.
F.

100

34

39

45

52

59

63

69

75

81

86

91

96

101

106

111

116

121

126

131

136

141

146

151

156

161

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1106

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1116

1121

1126

1131

1136

1141

1146

1151

1156

1161

1166

1171

1176

1181

1186

1191

1196

1201

1206

1211

1216

1221

1226

1231

1236

1241

1246

1251

1256

1261

1266

1271

1276

1281

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1291

1296

1301

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1311

1316

1321

1326

1331

1336

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1346

1351

1356

1361

1366

1371

1376

1381

1386

1391

1396

1401

1406

1411

1416

1421

1426

1431

1436

1441

1446

1451

1456

1461

1466

1471

1476

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 16.12.20.

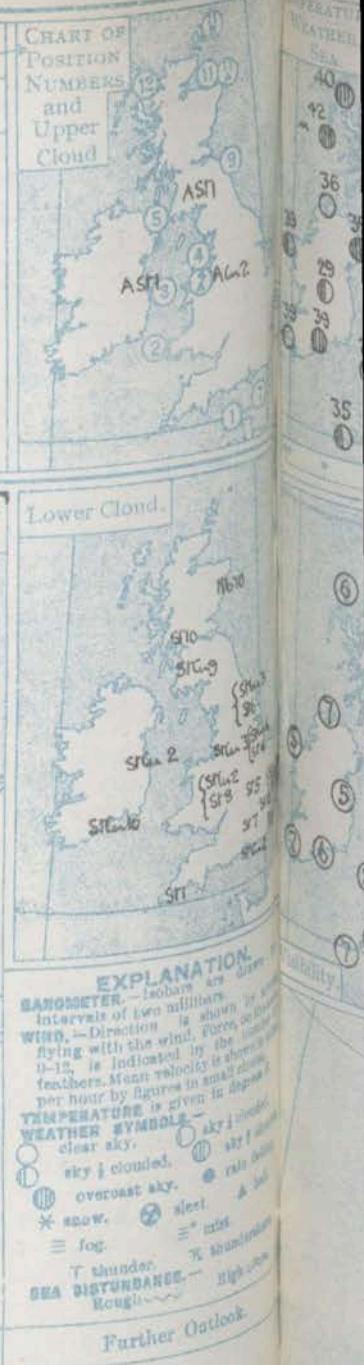
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.	Temperature reported from Coastal and Cross Channel Steamers				
				Position Number	Date	Time G.M.T.	Sea °F	Air °F
1. S.E. England	Dull, slight snow, misty.	Indif.	Slight	5.	15 th	08.19	50	39
2. E. England	Dull, slight snow, misty.	Fair.	Mod.	12	"	?	43	33
3. E. Midlands	Fair to dull.	Fair.	-	3.	"	10.00	48	39
4. W. Midlands	Fair to dull.	Indif.	-	7.	16 th	03.50	48	36.5
5. S.W. England	Fine to fair.	Good.	Slight	49.	"	04.10	46	37
6. South Wales	Fine.	Good.	Smooth					
7. North Wales	Fine.	Good.	Calm.					
8. N.W. England	Fair to dull.	Indif.	V. Smooth					
9. N. Midlands	Fair to dull.	Indif.	-					
10. N.E. England	Dull, slight snow.	Good.	Smooth					
11. E. Scotland	Dull, slight rain.	Poor	Mod.					
12. S.W. Scotland	Dull.	Indif.	Smooth					
13. Isle of Man	Cloudy.	Fair.	Smooth					
14. N. & N.W. Scotland	Fine, squally.	Fair.	Mod.					
15. Hebrides	Dull.	Fair.	Mod.					
16. Orkneys and Shetlands	Fair to dull; squally, slight rain.	Indif.	Mod.					
17. N.W. Ireland	Cloudy.	Indif.	Smooth					
18. N.E. Ireland	Fine to dull; misty.	Fair.	Smooth					
19. S.E. Ireland	Dull.	Indif.	Smooth					
20. S.W. Ireland	Fine to dull.	Good.	Smooth					



Barometric change from 4 h. to 7 h. (half millibars).

GENERAL INFERENCE from observations received up to 9h G.M.T.

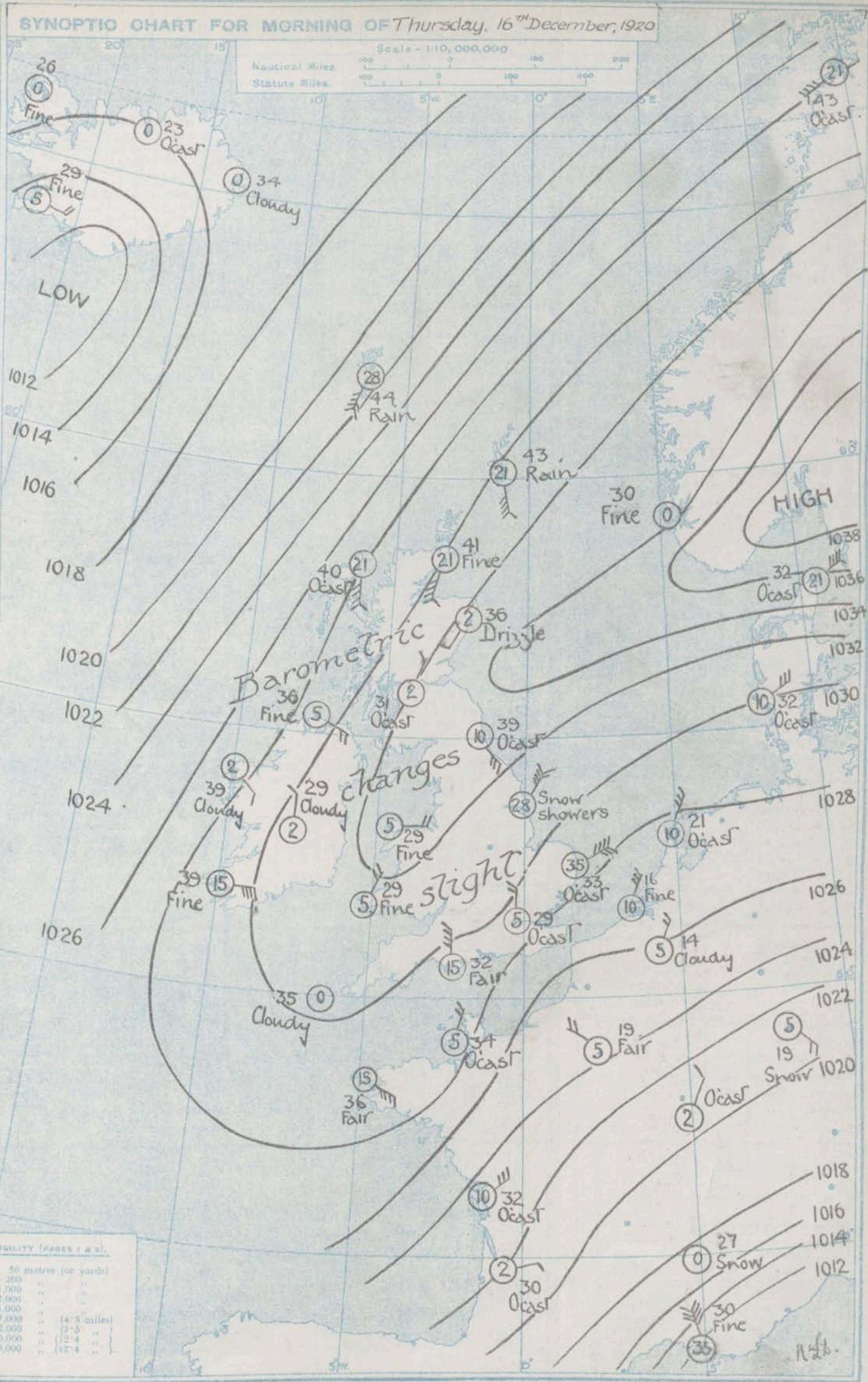
There are no indications of any break in the very cold spell which is established over the greater part of England and Ireland, and there will probably be further falls of snow in the East and South of England.



Further Outlook

In the South and East of England wintry conditions with North and East winds from between will continue for several days.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Thursday 16th December 1920.
1. S.E. England	Moderate to fresh North-East wind; much low cloud, some snow; visibility good at times; very cold.
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	Light East to South-East breezes; fair; visibility good, sharp frost inland at night.
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	Light indefinite breezes; fair; visibility fair to good; frost at night inland.
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	Fresh to strong South to South-West wind; much cloud, some rain locally; visibility fair; mild.
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	Light to moderate South-East breezes; fair; visibility mainly good; frost inland at night.
20. S.W. Ireland	



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. NO. 351

Thursday
16th DecemberWEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 15th

STATIONS.	WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.	WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.
	Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 12h-9h 15	Day 9h-18h 15	Sunrise to Sunset 15	Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 12h-9h 15	Day 9h-18h 15	Sunrise to Sunset 15	15	15
England, N.W.	Oban	b b c o	46	31	-	-	17	Douglas (I.O.M.)	0	34	30	-	-	-	00	
	Bunff	b c b	40	34	-	-	28	Blackpool	c o c o	34	33	-	-	-	00	
	Montrose	o	40	35	-	1	00	Southport	-	37	34	-	-	-	00	
	St Andrews	o	c	40	35	-	00	Morecambe	-	-	-	-	-	-	00	
	Harrogate	o	osp	38	30	02	01	Buxton	o	32	29	-	-	-	00	
	Scarborough	o	o	40	37	-	00	Leamington Spa	o	30	29	-	-	-	00	
	Skegness	o v	o v	40	33	-	00	Malvern	o	32	30	-	-	-	00	
	Lowestoft	o	c d	34	33	-	00	Bath	o	32	30	-	-	-	00	
	Felixstowe	o	o	33	30	-	00	Rhyl	o	37	36	-	01	-	00	
	Southend-on-Sea	o	o	33	30	-	00	Colwyn Bay	-	34	31	-	-	-	00	
England, S.E.	Tunbridge Wells	o	aoc b	32	28	-	00	Llandudno	*	37	32	02	-	-	20	
	Margate	o	c	34	31	-	00	Aberystwyth	o c b	0.0	36	30	-	-	-	
	Ramsgate	*	*	38	28	-	00	Tenby	-	-	-	-	-	-	00	
	Folkestone	x o	o	31	27	-	00	Swansea	-	-	-	-	-	-	00	
	Hastings	o	o	36	29	-	00	Weymouth	o	38	31	-	-	-	00	
	Eastbourne	-	-	33	24	-	00	Teignmouth	o	32	32	1	-	-	00	
	Brighton	o. o	o	34	31	-	00	Torquay	o	35	30	0.3	-	-	00	
	Worthing	o	o	34	31	-	00	Paignton	o	35	30	-	-	-	00	
	Littlehampton	b o o	o	34	31	-	00	Penzance	o g	37	34	-	-	-	00	
	Portsmouth (S. Shores)	*	*	36	32	-	00	Newquay	o	35	30	-	-	-	00	
England, S.W.	Bournemouth	*	*	33	30	-	00	Bude	o	36	31	-	-	-	00	
	Weymouth	o	o	36	28	-	00	Ilfracombe	o	36	32	0.4	-	-	00	
	Teignmouth	-	-	-	-	-	-	Weston-s-Mare	o	33	30	-	-	-	00	
	Torquay	-	-	-	-	-	-									
	Paignton	-	-	-	-	-	-									
	Penzance	-	-	-	-	-	-									
	Newquay	-	-	-	-	-	-									
	Bude	-	-	-	-	-	-									
	Ilfracombe	-	-	-	-	-	-									
	Weston-s-Mare	-	-	-	-	-	-									

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	RAINFALL.		Sun. Hours.
	7h-18h 15	18h-19h 15	18h 12-1h 16	1h-7h 16				Day 7h-18h	Night 18h-7h	
Renfrew	bccoc	oaf	osp	oaf	37	29	24	mm.	mm.	00
Eskdalemuir	o	oaf. o	oaf. o	oaf. o	34	29	25	-	-	0.0
Valencia (Cahirciveen)	b3	b b c 3	bc	b c	40	27	26	-	-	5.7
Baldonnel	oocbf	bzf	oaf	b o o f	36	24	14	-	-	0.0
Manchester (Alcock Park)	oaf F	oif. o. oif	oaf	bccaf	36	30	22	-	-	#
Ross on Wye	o	o g	?	coocfb	31	23	19	-	-	0.0
Falmouth	oif	oif. oaf	oaf. o	b o	36	28	25	-	-	0.0
Caithness (Hawks)	oif. g	oaf	bzf	b b c	36	27	23	-	-	0.0
Lymnepne (Folkestone)	oif. g	oif. oif	cobccafs	oaf. oaf	30	24	16	-	5	0.0
Aberdeen	poaf	oaf	oaf	oaf ngs	41	36	30	0.2	2	00
Howden	oaf. ife	af. o	af. oif	ps. o. o	35	30	24	-	0.2	0.0
Cranwell (Lines)	oif. ps.	o	o	ps. o	33	27	24	6.000	1	0.0
Felixstowe	oif	oif. o. o	coocfb	oaf. o	35	28	24	-	1	0.0
Shoeburyness	o	o. b. o. c	bcc	o. s. s. o.	35	27	20	-	0.2	0.0
Benson	o	o	b	bcc, bbo	32	19	13	-	0.1	*
S. Farnborough	caf. oif	oaf. oif	co b b c	bccs	35	21	16	-	0.2	0.0
London (Kew Observatory)	oaf. oaf	oaf	oif. b	bccf ps	33	27	22	-	trace	0.0
Croydon	oaf. q	oaf. q. fc	cobccafs	bog. p. 3f. 2f	32	25	21	-	0.1	#

LONDON OBSERVATIONS.	WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall.	Sunshine to Sunset Hours.	15 h. G.M.T.	18 h. G.M.T.	Humidity %	SOUTH KENSINGTON (Meteorological Office).
	Morning.	Afternoon.									
24 HOURS ENDED 9H G.M.T. 16 th											
Greenwich (Royal Observatory)	0.05	0.05	0.650	33	28	26	0.3	0.0	67	81	16 th 17 th Dec 1920
City (Bunhill Row)	*	*	*	*	34	30	25	0.1	0.0	*	16 th
Westminster (St. James's Park)	*	*	*	*	34	30	25	0.0	87	98	16 th
Regents' Pk (Botanic Gds)	*	*	*	*	34	27	22	0.3	80	76	16 th
Camden Sq. (British Rainfall)	0	0	*	*	32	27	23	-	87 (18h)	97	16 th
Kensington Palace	0	0	*	*	34	27	23	-	87	93	16 th
Hampstead Observatory	*	*	*	*	32	25	21	0.3	0.0	*	16 th
Vertical Component of Solar Radiation per Square Centimetre during yesterday											
Yarmouth	2.7	Total	2.7	Joules.	1.1	1.1	1.1	1.1	1.1	1.1	16 th
Greeuwich	2.7		2.7	Milliwatts.	1.1	1.1	1.1	1.1	1.1	1.1	16 th
Wick	2.1	Average Rate. C.I.	2.1		1.2	1.2	1.2	1.2	1.2	1.2	16 th
Valencia	3	Maximum Rate. 3	3		1.2	1.2	1.2	1.2	1.2	1.2	16 th

Photographic Record of

Pole Star (Polaris) and of δ Ursae

Minors at Greenwich Observatory.

Exposure from 15th 17 h. 0 m. to 16th 6 h. 45 m.

Stars. Duration of Exposure. Duration of Record.

Polaris 13. 45 5. 35 41
 δ Ursae Minors 13. 45 4. 33 33

NOTES ON THE WEATHER OF YESTERDAY.

The temperature exceeded 40° locally in the North but did not exceed 32° at some Southern Stations. There was some sharp frost at night, a minimum temperature of 23° being recorded at Nairn and Birr Castle, and 19° at Benson. Two millimetres of rain fell at Aberdeen and 1mm at Lerwick, and there was some snow in the East of England.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON
BRITISH SECTION. No. B 21576 FRIDAY 17th DECEMBER 1920.

TEMPERATURES	
Max. °F.	Min. °F.
37	28
41	31
52	43
61	48
59	37
57	47
55	44
63	52
62	51
66	45
64	45
73	60
73	55

ANTIC.

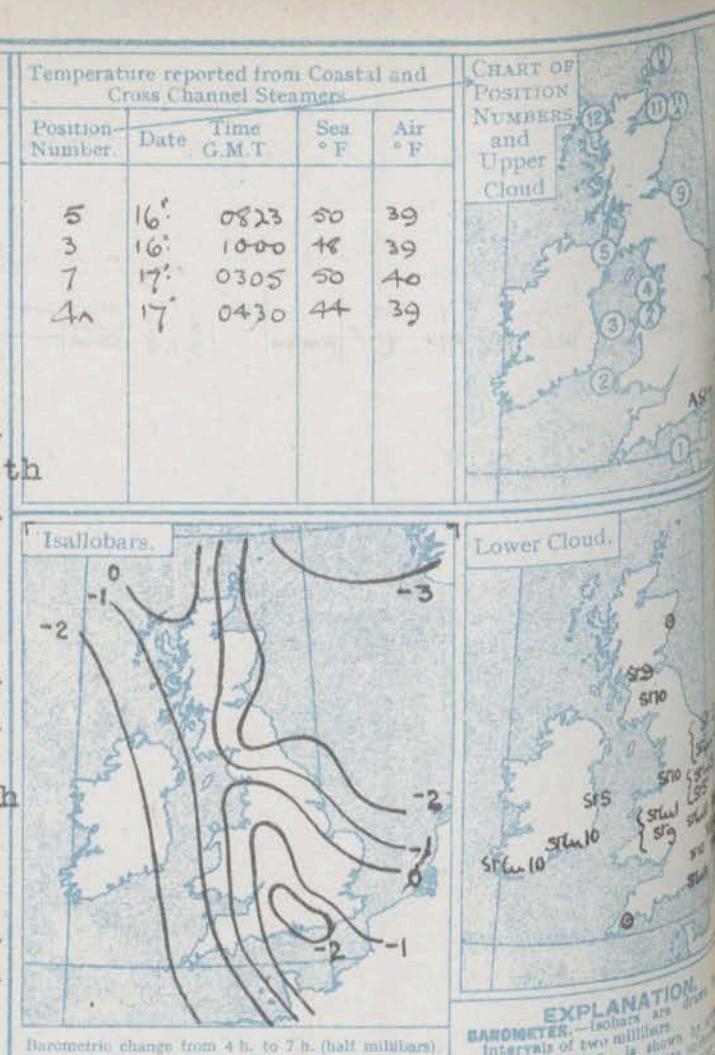
Weather

Sea

STATIONS	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																		Low Cloud.			Upper Cloud			Sea			
	BAROM. at M.S.L. mb.	Wind. Dir. Force 0-12.	Temp. °F.	Humidity %	Visibility 0-9.	Height of Low Cloud, Feet.	Low Cloud.			Upper Cloud			BAROM. at M.S.L. mb.	Wind. Dir. Force 0-12.	Temp. °F.	Humidity %	Visibility 0-9.	Height of Low Cloud, Feet.	Low Cloud.			Upper Cloud			Sea			
							Form.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.	Form.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.	Form.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.							
Renfrew ...	10332	-2	-	0	03f	35	85	3	1280	SNC	8	ASR	1	*	10334	0	SE	2	c2f	30	85	4	4500	SNC	8	-	-	8
Eskdalemuir ...	10334	0	SE	1	b2f	33	95	6	2000	Nb	2	AGn	4	*	10345	0	-	0	b2	23	85	6	-	-	-	-	4	
Valencia (Cahirc's)	10282	-1	SSN	4	01f	43	75	7	4200	SNC	4	ASR	6	3	10275	0	SSE	4	01f	42	75	7	-	-	ASR	10	3	
Baldonnel ...	10317	-1	SSN	1	b2f	38	75	7	4200	SNC	2	Ci	3	*	10323	+1	-	0	b2	27	92	6	-	-	-	ASR	1	2
Warrington (Alex. & R.)	10321	-2	SSN	2	c2f	35	65	5	2000	Sc	8	-	-	*	10326	+1	NNE	1	03f	34	75	2	3000	Sc	10	-	-	8
Ross on Wye ...	10309	-2	NE	1	b2	36	75	5	4200	Cu	2	-	-	*	10315	+1	-	0	b2m	23	75	4	-	-	-	-	4	
Falmouth ...	10305	-2	NE	3	b	38	75	7	-	SNC	1	-	-	*	10313	0	NE	2	b2f	30	75	6	-	-	-	-	2	
Calshot (Hants) ...	10297	-1	NNE	3	b1f	34	75	6	2000	SNC	1	-	-	*	10297	0	N	4	c	33	75	6	3000	SNC	8	-	-	2
Lyminge (Folkestone) ...	10271	0	NNE	6	05, qm	30	92	3	760	Nb	10	-	-	*	10272	0	NNB	4	05m	30	92	4	750	Nb	10	-	-	2
Aberdeen ...	10331	-1	SSN	2	05, qf	37	97	4	2000	Nb	10	-	-	*	10337	0	SSW	3	02f	37	95	4	2000	Nb	10	-	-	3
Howden ...	10313	-1	NE	1	0	34	75	6	3000	SNC	6	ASR	3	*	10324	+2	NNE	1	0m	33	95	5	3000	Sc	10	-	-	8
Stanwell (Lancs) ...	10309	-2	NNE	3	01f	362	97	67	3000	SNC	9	-	-	*	10311	0	N	4	0	33	97	5	3000	SNC	10	-	-	2
Felixstowe ...	10290	-1	N	3	03	30	97	3	1250	Nb	10	-	-	*	10295	+1	N	3	05	32	92	5	1250	Nb	10	-	-	2
Shoeburyness ...	10285	-2	N	3	02f	31	85	5	1250	Sc	10	-	-	*	10280	-1	NNE	1	0x	32	85	6	2000	Sc	10	-	-	2
Benson ...	10294	-2	N	7	b	34	75	7	-	Cu	2	-	-	*	10293	0	N	3	0	32	85	5	-	SNC	10	-	-	2
S. Farnborough ...	10295	-1	N	3	0	33	85	6	1250	SNC	9	-	-	*	10295	0	NE	2	0	33	85	6	1250	Sc	10	-	-	2
London (Kew Obsy.)	10293	-4	N	3	02f	34	65	4	-	-	AGn	9	*	*	10292	0	N	2	02f	33	45	4	3000	SNC	10	-	-	2
Croydon ...	10291	-2	N	4	03f	32	85	3	750	Sc	9	-	*	*	10291	0	N	3	03f, 5	33	85	3	750	Sc	10	-	-	2
18H. G.M.T. OF 16°																			18H. G.M.T. OF 16°			18H. G.M.T. OF 16°			16°			
10339	-2	-	0	b2f	17	97	7	-	-	-	-	-	*	10306	-1	E	1	03f	30	95	3	2000	Sc	9	-	-	8	
10285	-2	SSN	3	0	43	*	*	*	*	*	*	*	*	*	10327	-2	0	b2	15	95	7	-	-	-	-	-	8	
10313	-1	-	0	b2f	31	95	5	-	-	-	ASR	3	*	*	10242	-2	SE	4	02	46	75	7	2000	SNC	5	-	-	2
Rose on Wye ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10304	-1	NE	1	03f	34	95	3	1250	Sc	10	-	-	2
Falmouth ...	10306	-2	NZ	3	b	29	75	7	-	-	-	-	*	*	10292	-2	NE	1	03f	32	75	3	1250	Sc	10	-	-	2
Calshot (Hants) ...	10272	-3	N	4	01f	29	85	6	3000	Sc	8	ASR	3	*	10284	-1	NE	2	b2	29	75	7	-	-	-	-	2	
Lyminge (Folkestone) ...	10271	-3	NE	4	05, m	32	97	4	750	Sc	10	-	*	*	10264	-2	NNE	3	01f	35	25	6	3000	Sc	6	ASR	-4	2
Aberdeen ...	10309	-2	-	0	0m	32	97	5	3000	SNC	10	-	*	*	10297	0	SW	1	b2f	32	75	4	-	-	-	-	3	
Howden ...	10294	-1	N	4	03	32	97	6	3000	Sc	9	-	*	*	10288	0	N	3	02f	32	97	5	3000	Sc	10	-	-	2
Stanwell (Lancs) ...	10365	-3	NNW	4	c	33	97	6	4200	SNC	7	-	*	*	10250	0	N	3	0d	34	97	6	1250	Nb	10	-	-	2
Felixstowe ...	10305	*	*	*	*	*	*	*	*	*	*	*	*	*	10252	0	NNE	4	0d	32	95	6	1250	Sc	10	-	-	2
Shoeburyness ...	10301	*	*	*	*	*	*	*	*	*	*	*	*	*	10267	-1	N	3	0	33	95	6	-	SNC	10	-	-	2
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10268	-1	NNE	2	02f	34	95	5	2000	Sc	10	-	-	2
S. Farnborough ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10260	-2	NNE	4	02f	35	85	5	1250	Sc	10	-	-	2
London (M.O. at Im.)	10277	-1	A	4	05	33	93	4	750	Sc	10	-	*	*	10267	-1	N	4	05, 2f	34	92	4	750	Nb	10	-	-	2
10283	-2	NNW	3	02f	33	93	4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
18H. G.M.T. OF 16°																			7H. G.M.T. OF 17°			7H. G.M.T. OF 17°			17°			
10298	43	5	5	c	10265	-3	42	-1	5	Sc	3	3	*	*	10243	42	40	40	0mpq	32	90	09	09	09	09	09	09	
10263	42	5	6	0	10247	0	42	+2	5	SSN	6	-	*	*	10244	42	40	40	09	3								

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 17. 12. 20.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.	Temperature reported from Coastal and Cross Channel Steamers			
				Position-Number	Date	Time G.M.T.	Sea °F Air °F
1. S.E. England	Dull, misty, local sleet.	Indif.	Mod.	5	16	0823	50 39
2. E. England	Dull, some drizzle.	Fair.	Slight	3	16	1000	46 39
3. E. Midlands	Cloudy or dull.	Fair.	-	7	17	0305	50 40
4. W. Midlands	Dull, misty.	Poor	-	4n	17	0430	44 39
5. S.W. England	Fine to cloudy, local mist	Good.	Slight				
6. South Wales	Variable sky.	Var.	Smooth				
7. North Wales	Variable sky.	Var.	V.SMOOTH				
8. N.W. England	Variable sky, mist inland.	Var.	Smooth				
9. N. Midlands	Fair to dull, some mist.	Indif.	-				
10. N.E. England	Fair or cloudy, local mist	Var.	Mod.				
11. E. Scotland	Fine or fair, local mist.	Indif.	Slight				
12. S.W. Scotland	Variable sky, local mist.	Var.	Smooth				
13. Isle of Man	Cloudy.	-	Smooth				
14. N. & N.W. Scotland	Fair or cloudy.	Indif.	Mod.				
15. Hebrides	Fair or cloudy.	Fair.	R.Rough				
16. Orkneys and Shetlands	Fair or dull.	Fair.	Slight				
17. N.W. Ireland	Mainly dull, local rain.	Indif.	Slight				
18. N.E. Ireland	Variable sky, local mist.	Var.	Smooth				
19. S.E. Ireland	Fine or fair.	Fair.	Smooth				
20. S.W. Ireland	Mainly dull.	Fair.	Mod.				

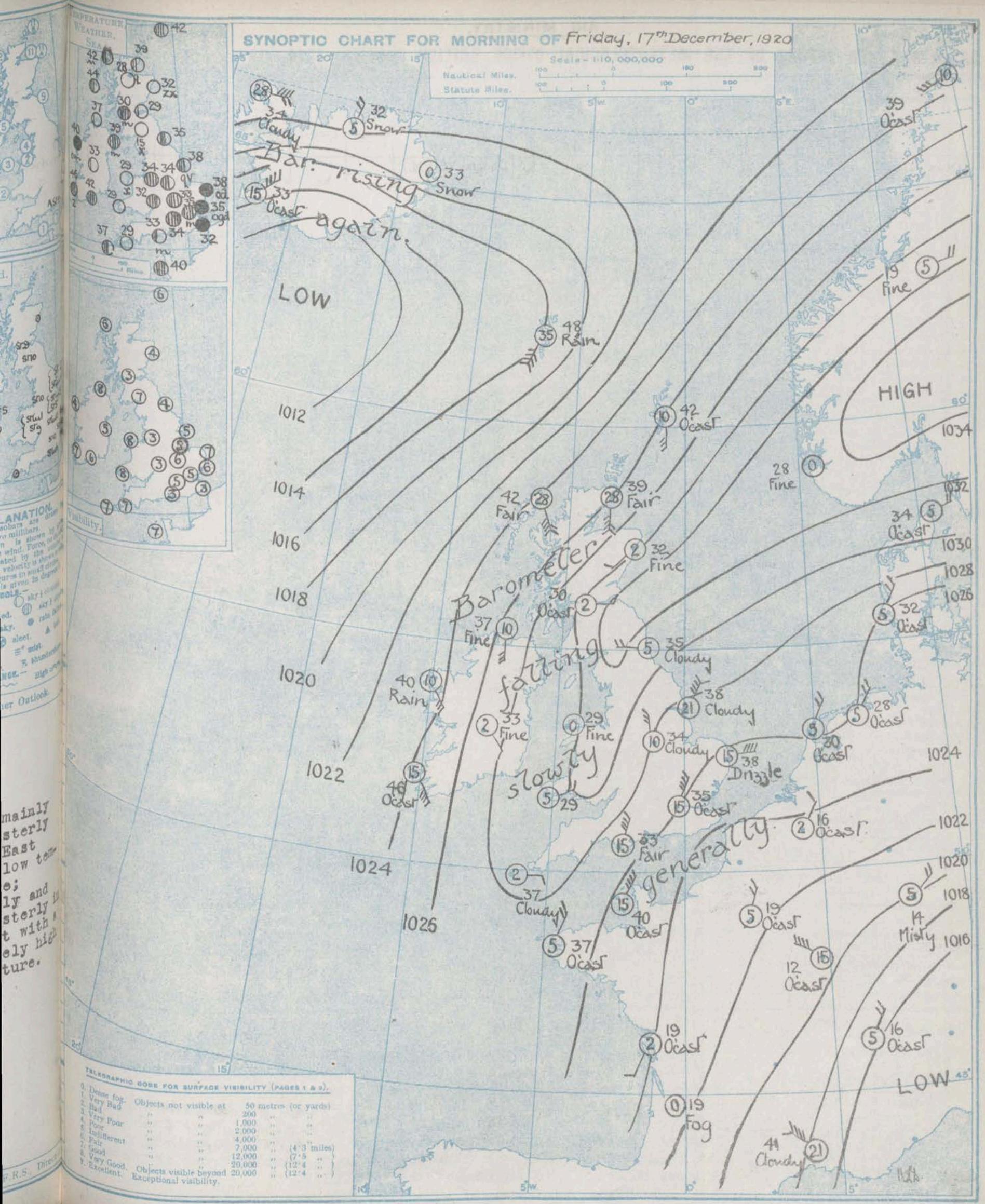


GENERAL INFERENCE from observations received up to 9h. G.M.T.

A wedge of high pressure extends from the St. George's Channel to the anticyclone over Scandinavia and Finland. Pressure is relatively low in a depression to the southward of Iceland and also over Germany and France. There are at present no definite indications of any material change in the pressure distribution, and it is therefore probable that the North-Easterly winds will continue over the greater part of England. Temperature, however, may be less low than of late for a time.

Districts.	Forecasts for the 24 hours commencing 15h.G.M.T. Friday 17th December 1920.
1. S.E. England	
2. E. England	Wind North or North-East, moderate, fresh locally; much cloud some rain, sleet or snow showers. Visibility mainly fair. Temperature rising temporarily; little or no frost.
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	Wind East or South-East, light or moderate. Fair to dull. Visibility fair generally. Temperature rising.
7. North Wales	
8. N.W. England	Northeasterly to variable winds, light or moderate. Mainly fair or cloudy. Visibility fair. Less cold than of late.
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	Wind Southerly, light or moderate, fresh locally. Fair or cloudy generally, but some rain or snow in several localities later. Temperature rising.
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	Wind mainly Southerly, light to fresh; cloudy or overcast, some rain or showers. Visibility fair. Temperature rising.
19. S.E. Ireland	
20. S.W. Ireland	

Wind mainly Northeasterly in the East with a low temperature; Southerly and Southwesterly in the West with a relatively high temperature.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 352.

Friday
17 December

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 16.

STATIONS.	WEATHER.		TEMPERATURE.			Rainfall.	SUNSHINE.	STATIONS.	WEATHER.		TEMPERATURE.			Rainfall.	SUNSHINE.
	Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h. 15°-16°	Day 19h-20h. 16°-17°	Sunrise to Sunset. 16°		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 17h-18h. 15°-16°	Day 18h-19h. 16°-17°	Sunrise to Sunset. 16°
England, Scotland.	Oban	co	38	32	-	-	0.1	England, N.W.	Douglas (L.Q.M.)	bc	37	29	-	-	4.5
	Banff	b b b b	b	39	30	-	-		Blackpool	b	35	29	-	-	3.3
	Montrose								Southport	b b b b					
	St. Andrews								Morecambe						
England, E. N.E.	Harrogate	b b b b c	co	33	26	-	-	Midlands.	Buxton						
	Scarborough	a	o	40	36	-	-		Leamington Spa	cb	36	23	-	-	2.5
	Skegness	o o p co	co	39	31	2	1		Malvern	c b	35	22	-	-	2.6
	Lowestoft	o p s	o s	32	27	0.2	0.2		Bath	c e b o b					
England, S.E.	Felixstowe	x o s	o	33	27	0.2	0.2	Wales.	Rhyl	ex	36	24	-	-	0.0
	Southend-on-Sea								Colwyn Bay	-	34	25	-	-	2.5
	Tunbridge Wells	o s o	o s o	31	25	0.3	0.3		Llandudno	*	35	25	-	-	2.9
	Margate	o s	o	36	27	1	2		Aberystwyth	o c c	36	23	-	-	1.5
England, S.W.	Ramsgate	*	*	38	27	1	2		Tenby						
	Folkestone	f s.	s o s s	32	28	3	1		Swansea						
	Hastings	o s	o s	31	27	1	2		Weymouth	cb	37	25	-	-	5.8
	Eastbourne	s	o s	32	27	-	1		Teignmouth						
England, S.W.	Brighton	c	e o	34	28	0.2	-		Torquay	m b c b	37	25	-	-	3.8
	Worthing	o e	b c	34	26	-	-		Paignton	b c	37	24	-	-	4.4
	Littlehampton	b e s	b c	34	27	-	-		Penzance	b	40	29	-	-	6.5
	Portsmouth (S'tsea)	*	*	35	28	-	-		Newquay	x b	37	25	-	-	6.8
England, S.W.	Bournemouth	*	*	35	26	-	-		Bude	x b	38	27	-	-	6.2
									Ilfracombe	abc	37	23	-	-	3.5
									Weston-s-Mare	b b c					

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	RAINFALL.	Sun. Hours.
	7h-18h 16°	18h-19h 16°	19h-10h 17°	1h-7h 17°					
Renfrew	o s f	e o s b e c f	c o s f	o s f	37	30	20	mm.	0.5
Eskdalemuir	o s o s o	b b c b	x b	b x	34	15	9	mm.	0.4
Valencia (Cahirc'e)	b b c o	o f z	o z	o	46	27	39	-	0.2
Baldonnel	b c c f b c f	b c c f	b b c x	b b c x	40	24	21	-	4.1
Didsbury	b c f o f	c o s f o f	o 4-5 f	o 3 f	38	30	26	-	#
Ross on Wye	o c b b b	b b c z b	b a f c o f	o x o f	36	26	20	-	2.1
Falmouth	b b c b	b b c f b	b	b x	40	27	19	-	5.7
Calshot (Hants)	b c c f b b c f	b b o b c o b c	o x f o f	o f	35	29	29	-	4.6
Lympne (Folkestone)	a s o o x f	o x f s s	o 2 f s	o 2 f s o f	34	26	20	6	0.0
Aberdeen	o x f p s	o o 2 f	2 f 2 f	2 f 2 f	38	30	23	3	0.0
Howden	b b c ~	o 1 f o	o 1 f o	o 1 f o	34	27	21	-	0.0
Cranwell (Lincs)	o 1 f p s	c o o	o 1 f e	c o c o	33	31	28	trace	0.4
Felixstowe	o 3 f 5.5	o 5.5	o 2 f 5.5 f b c	o 1 f p d	35	29	1	2	0.0
Shoeburyness	5.5 x	5.5 x	o 9	o p d	35	28	28	0.3	0.0
Benson	b b c	o	c o o	c o x	35	22	26	-	#
S. Farnborough	c o p s b c c	c o o	o o 2 f	o 2 f	34	25	31	-	2.0
London (Kew Observatory)	o s o	2 f o f	o s o	o 2 f	35	29	29	-	0.6
Croydon	o s f 2.4	o s f 2.4	o s f 2.4	o s f r s	34	29	trace	trace	#

LONDON. OBSERVATIONS.	Morning.	WEATHER.	Night	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall.	Sunshine to Sunset Hours.	HUMIDITY %	SOUTH KENNINGTON (Meteorological Office)
				7h-18h 16° G.M.T.	18h-19h 16° G.M.T.					
Greenwich (Royal Observatory)	o c s	s o c o s	o	36	31	29	-	0.0	86	91
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James's Park)	*	*	*	36	32	29	0.2	0.0	75	91
Regent's Park (Botanic Garden)	*	*	*	*	*	*	*	0.1	*	*
Camden Sq. (British Railways)	o s c b c	c s. b c e	*	35	31	23	-	*	95	90
Kensington Palace	o c	o	*	36	30	28	0.3	*	56 (18h)	87
Hampstead Observatory	*	*	*	33	29	26	trace	0.8	*	91

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.			
17 & 18 December 1920.			
Vertical Component of Solar Radiation per Square Centimetre during yesterday			
Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	9.2	11.49	3.36
Total	12.2	15.3	3.37
Greenwich	8.3	11.56	3.49
Millwall	8.4	11.57	3.50
Average Rate. 4.4			
Wick	9.1	12.8	3.16
Maximum Rate. 11			
Valencia	3.47	13.37	4.27

Photographic Record of Pole Star (Polaris) and of Minoris at Greenwich Observatory.			
Exposure from 16° 17 h 0 m. to 17° 6 h 45 m.			
Duration of Exposure.			
Stars.	Duration of Expos.	Duration of Rec.	%
Polaris	h. m.	h. m.	9
Minoris	13.45	0.0	-

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to 40° or higher in the extreme North and North-West but remained below 35° at some places in the South-East of England. The minima of the night were not generally much below 32°, but at Eskdalemuir the thermometer fell to 15° in the screen and to 9° on the grass. Snow fell in several Eastern and South-eastern localities; at Spurn Head the value was as much as 9mm. Much bright sunshine was recorded at some Western and South-Western stations.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B2576 SATURDAY 18th DECEMBER 1920.

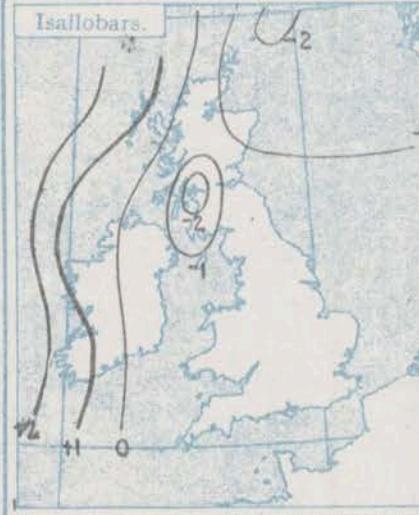
STATIONS.	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 18H AND 24H.																										
	BAROM. at M.S.L. mb.	Wind. Change in 8 hours.	Wind. Dirac. Force 0-12.	Temp. °F.	Humidity. % 0-9.	Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud.			Upper Cloud.			BAROM. at M.S.L. mb.	Wind. Change in 8 hours.	Wind. Dirac. Force 0-12.	Temp. °F.	Humidity. % 0-9.	Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud.	Upper Cloud.	Sea				
								Form.	Amt. 8-10.	Form.	Amt. 9-10.	Form.	Amt. 8-10.														
18H. G.M.T. 17 th																											
Renfrew ...	1029.7	-3	N.E.	1	62f	30	75	2	1200	Sr Cu	10	-	-	*	1029.3	0	-	0	03f	31	75	2	3000	Sr Cu	10	-	-
Eskdalemuir ...	1028.5	-2	-	0	62f	28	85	5	-	Sr Cu	1	-	-	*	1029.7	0	-	0	38	19	85	6	-	-	-	-	-
Valencia (Cahirc'a)	1028.5	-2	S.E.	2	62f	41	68	8	2000	Sr Cu	7	-	-	*	1029.1	0	25f	0	04f	65	8	1000	Sr Cu	7	-	-	
Baldonnel ...	1028.5	-2	S.E.	3	62f	58	76	7	3000	Sr Cu	2	-	-	*	1028.0	0	5	2	30	62	60	-	-	-	-	-	
Funchester (Alex.P.)	1028.6	-2	N.E.	2	62f	38	65	3	1200	Sr	9	-	-	*	1028.4	0	NNW	2	65f	36	92	5	2000	Sr	7	-	-
Ross on Wye ...	1028.1	-2	N.E.	2	23	37	72	4	2000	Sr	Y	A Cu	1	*	1026.7	0	2	03f	36	85	3	1200	Sr	10	-	-	
Falmouth ...	1026.8	-2	NNW	3	61f	39	66	6	-	-	-	-	-	*	1025.3	-2	N.W.	2	51f	30	75	5	Sr Cu	1	-	-	
Calshot (Hants) ...	1026.4	-2	NNW	4	62f	38	65	6	1200	Sr	10	-	-	*	1025.1	0	NNW	3	03f	36	92	2	1200	Sr	10	-	-
Lympne (Folkstone)	1024.5	0	-	0	odm	52	97	14	700	Sr	0	-	-	*	1024.9	0	NNW	1	05f	32	97	4	1200	Sr	10	-	-
Aberdeen ...	1028.9	-2	SSW	3	62f	36	65	4	-	-	-	-	-	*	1007.5	-1	SSW	2	63f	32	88	4	-	-	-	-	
Howden ...	1028.4	-2	-	0	0	35	98	5	3000	Cu	9	-	-	*	1027.0	0	-	0	02f	34	97	6	3000	Sr	10	-	-
Cranwell (Lincs) ...	1027.4	-2	N	3	62f	84	92	4	3000	Sr Cu	5	A Cu	2	*	1027.0	0	NNW	3	02f	34	97	4	3000	Sr	10	-	-
Felixstowe ...	1025.8	-2	N	3	08f	35	99	5	180	Nb	10	-	-	*	1025.3	0	N	2	02f	36	97	5	3000	Sr Cu	10	-	-
Shoeburyness ...	1024.8	-2	N.E.	2	62f	35	66	6	1200	Sr Cu	10	-	-	*	1024.4	0	N.E.	2	03f	36	86	5	1200	Cu Ns	10	-	-
Benson ...	1025.0	-2	N	3	0	36	56	5	-	Sr	10	-	-	*	1025.7	0	NNW	2	0	36	97	5	-	Sr	10	-	-
S. Farnborough	1025.6	-2	N	2	odm	25	97	4	700	Nb	10	-	-	*	1025.5	0	odm	3	55	97	4	1200	Nb	10	-	-	
London (Kew Obs.)	1025.4	-2	NNW	3	02f	36	94	6	1200	Sr	10	-	-	*	1025.1	0	NNW	2	03f	36	92	2	1200	Sr	10	-	-
Croydon ...	1025.8	-2	NNW	3	02f	35	97	2	1200	Nb	10	-	-	*	1025.0	-1	NNW	3	03f	36	97	2	1200	Nb	10	-	-
Renfrew ...	1030.0	-1	-	0	bz	16	92	7	-	Sr Cu	2	-	-	*	1025.5	-2	0	04fx	25	92	2	1200	Sr	10	-	-	
Eskdalemuir ...	1027.7	+2	SSW	1	0	38	*	*	4200	Sr Cu	5	-	-	*	1025.1	-1	0	02fx	23	92	5	-	Sr	9	-	-	
Valencia (Cahirc'a)	1025.1	0	-	0	bz	30	75	4	4200	Sr Cu	5	-	-	*	1025.3	+2	b	39	78	4200	Sr	2	-	-			
Baldonnel ...	1025.1	0	-	0	bz	37	85	6	-	Sr	10	-	-	*	1027.5	0	E	1	01f	34	75	6	4200	Sr	10	-	-
Funchester (Alex.P.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.2	0	SNC	3	03f	37	95	3	1200	Sr	10	-	-
Ross on Wye ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.7	0	E	1	04f	35	97	2	1200	Sr	10	-	-
Falmouth ...	1024.7	-1	N.E.	4	02f	37	95	6	2000	Sr	10	-	-	*	1025.1	0	NB	3	01f	37	95	6	-	Sr	10	-	-
Calshot (Hants) ...	1024.7	-1	N	3	02f	36	97	4	2000	Sr	10	-	-	*	1024.7	0	NNW	3	02f	37	92	5	1200	Sr	10	-	-
Lympne (Folkstone)	1023.9	0	NNW	1	02f	33	97	4	700	Sr	10	-	-	*	1023.6	0	NNW	1	0odm	33	97	3	700	NB	10	-	-
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.6	-1	W	1	b3f	25	97	2	-	-	-	-	-
Howden ...	1027.7	-1	-	0	0	32	97	4	2000	Sr	4	-	-	*	1028.2	0	-	0	02f	32	97	4	2000	Sr	10	-	-
Cranwell (Lincs) ...	1027.0	0	NNW	3	02f	33	97	5	2000	Sr	10	-	-	*	1027.1	0	N	3	02f	33	97	5	3000	Sr	10	-	-
Felixstowe ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.1	0	N	3	02f	37	97	5	1200	Nb	10	-	-
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.4	0	NNW	1	0d	38	95	6	1200	Sr	10	-	-
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.9	0	N	2	0	36	97	4	-	Sr	10	-	-
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.1	0	NNW	2	0odm	36	97	3	700	Nb	10	-	-
London (M.O. at 1m)	1024.5	-1	NNW	1	02f	37	95	2	2500	Nb	10	-	-	*	1025.3	+1	NNW	2	02f	38	92	4	2000	Sr	10	-	-
Croydon ...	1025.3	-2	NNW	1	02f	36	97	2	2500	Nb	10	-	-	*	1025.4	0	NNW	2	02f	37	92	3	2500	Sr	10	-	-
7H. G.M.T. OF 18 th																											
STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.																											
STATIONS.	BAROM. at M.S.L. mb.	Temp. °F.	Wind. Dirac. Force 0-12.	Weather.	BAROMETER. at M.S.L. mb.	Temp. °F.	Wind. Dirac. Force 0-12.	Wind. Dirac. Force 0-12.	Weather.	Sea	Rainfall mm.	Temp. Max. °F.	Min. °F.	WEATHER.	Sunshine Hours.												
Lerwick	1024.1	48	S	5	62m	1026.4	-2	46	+4	SW	5	-	0	0	1	47	41	0	0	0	0</						

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 18.12.20.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, local drizzle mist	Poor	Slight
2. E. England	Dull, local rain and fog	Fair.	Smooth
3. E. Midlands	Dull.	Poor	-
4. W. Midlands	Dull, some mist or fog.	V. Poor	-
5. S.W. England	Dull.	Fair.	Slight
6. South Wales	Dull, some mist or fog	Poor	Smooth
7. North Wales	Variable sky.	Var.	Smooth
8. N.W. England	Mainly dull, some mist.	Indif.	"
9. N. Midlands	Dull, misty.	Poor.	-
10. N.E. England	Mainly dull, local show-	Poor	Slight
11. E. Scotland	Fine to cloudy, some mist	Poor	Smooth
12. S.W. Scotland	Dull, frosty, mist or fog	V. Poor	"
13. Isle of Man	Fair.	Fair.	Smooth
14. N. & N.W. Scotland	Dull, local mist.	Indif.	Slight
15. Hebrides	Cloudy or dull..	Fair.	"
16. Orkneys and Shetlands	Dull, local rain and squalls.	Indif.	Mod.
17. N.W. Ireland	Fair or fine.	Good.	Slight
18. N.E. Ireland	Fine to cloudy, misty.	Fair.	Smooth
19. S.E. Ireland	Dull.	Fair	Slight
20. S.W. Ireland	Variable sky.	Good	Slight

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
4	17 th	0430	44	39
7	17 th	0305	50	40
5	17 th	0825	50	39
3	17 th	1000	49	40
1	17 th	1223	51	41
6	17 th	1530	48	32
7	18 th	0340	47	41
4	18 th	0400	46	42
12	18 th	0440	49	46



GENERAL INFERENCE from observations received up to 9h. G.M.T.

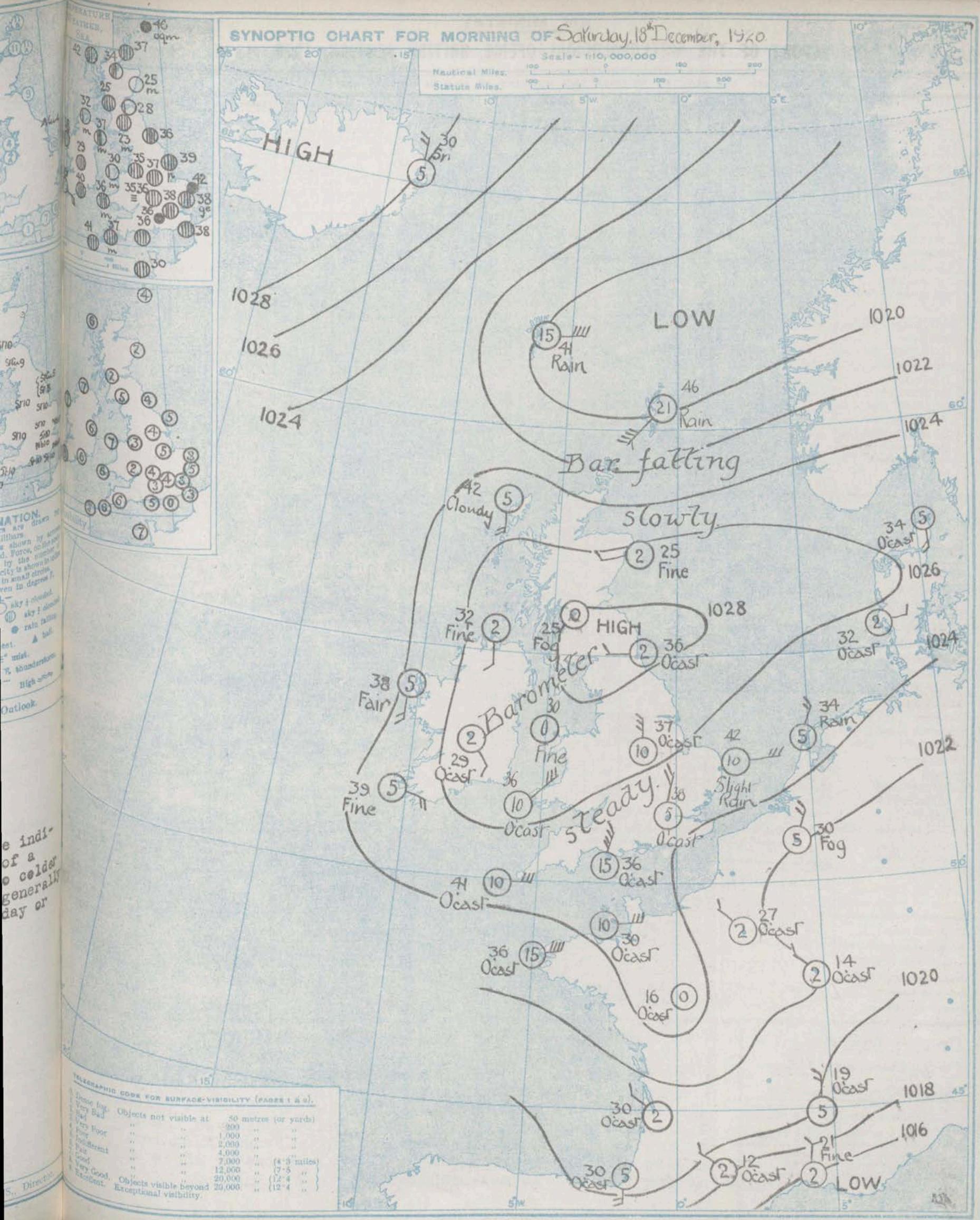
An anticyclone over the British Isles will continue and the wind will be light generally during the week-end with much cloud and occasional drizzle in the South and East of England but with fairer and colder weather further North. There are indications of a return to colder weather generally after a day or two.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Saturday 18th December 1920.
1. S.E. England	Light North-East to North breeze; much low cloud; local drizzle at first improving later; visibility indifferent to fair; rather cold.
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	Light North-East breeze; varying amount of cloud; visibility fair; rather cold.
6. South Wales	
7. North Wales	Light indefinite breezes; varying amount of cloud; mist locally; sharp frost at night inland.
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	Light North-West wind; fair to fine; visibility good; sharp frost at night inland.
12. S.W. Scotland	Same as 7 - 10.
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	Light to moderate SW to W wind veering to NW later; much low cloud with local rain followed by snow or hail showers and colder weather; visibility improving.
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	Same as 7 - 10.
20. S.W. Ireland	

There are indications of a return to colder weather generally after a day or two.

Further Outlook:

EXPLANATION.
BAROMETER.—Isobars are drawn in intervals of two millibars.
WIND.—Direction is shown by arrow flying with the wind. Force on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS—
○ clear sky.
○ sky + clouded.
○ sky overcast.
○ snow.
○ fog.
○ thunder.
SEA DISTURBANCE.—
Rough—High seas.



AIR MINISTRY.
DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 353.

Saturday
18th December

WEATHER, TEMPERATURE RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 17 th																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h.	Day 19h-20h.	Sunrise to 17 th .	Sunset 17 th .			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 16-17.	Day 17-18h.	Sunrise to 17 th .	Sunset 17 th .
England, Scotland.	Oban	o.g.	o	39	35	-	-	0-0	0-0	England, N.W.	Douglas (L.O.M.)	c	o	58	48	-	-	8-8	8-8
	Banff	bx	bx	53	47	-	-	4-1	4-1		Blackpool	c	o	58	48	-	-	0-6	0-6
	Montrose	-	-	54	46	-	-	4-3	4-3		Southport	o.c.o	o.c.o	55	48	-	-	0-1	0-1
	St. Andrews	-	-	54	46	-	-	4-3	4-3		Morecambe	-	-	56	50	-	-	-	-
England, E. N.E.	Harrogate	o.c.b.e.e	c.o	55	51	-	-	1-2	1-2	Midlands.	Buxton	-	-	-	-	-	-	0-0	0-0
	Scarborough	b	o	48	47	-	-	2-2	2-2		Leamington Spa	c	o	54	46	-	-	2-4	2-4
	Skegness	o.b.e	c.o.o	41	39	1	-	0-8	0-8		Malvern	-	-	-	-	-	-	0-0	0-0
	Lowestoft	-	-	-	-	-	-	-	-		Bath	s.b.c	b.b.c.o	59	46	-	-	1-7	1-7
England, S.E.	Felixstowe	o9	o9	59	53	5	1	0-0	0-0	Wales.	Rhyl	cx	xc	59	42	-	-	3-0	3-0
	Southend-on-Sea	o.d.o	o.d	56	50	0-4	1	0-0	0-0		Colwyn Bay	-	-	56	42	-	-	3-3	3-3
	Tunbridge Wells	om	odome	55	50	-	2	0-0	0-0		Llandudno	o.c.b	o.b.c	59	43	-	-	0-7	0-7
	Margate	o	o	49	32	6	-	0-0	0-0		Aberystwyth	o.c.c	c.o.o	57	44	-	-	0-7	0-7
England, S.E.	Ramsgate	-	-	38	31	5	-	0-0	0-0		Tenby	-	-	-	-	-	-	0-0	0-0
	Folkestone	s.o	s	35	28	4	-	0-0	0-0		Swansea	-	-	-	-	-	-	0-0	0-0
	Hastings	a.s.o	o	36	31	1	-	0-0	0-0		Weymouth	x.b.c	b.c.o	58	48	-	-	1-5	1-5
	Eastbourne	o.d.o	o	36	32	0-2	0-1	0-0	0-0		Teignmouth	-	-	-	-	-	-	5-4	5-4
England, S.E.	Brighton	o.c	o.d	56	50	0-2	0-4	0-0	0-0		Torquay	m.b.b.c	b.b.c	40	37	-	-	5-2	5-2
	Worthing	o	od	37	30	-	-	0-0	0-0		Paignton	b	50	40	47	-	-	0-0	0-0
	Littlehampton	o.cm	o.r	35	33	-	17	0-0	0-0		Penzance	b	5	40	26	-	-	4-0	4-0
	Portsmouth (S'thess)	x	4	37	28	-	-	0-0	0-0		Newquay	x.b	5	38	24	-	-	5-0	5-0
England, S.E.	Bournemouth	-	-	37	29	-	-	0-9	0-9		Bude	b	5	40	20	-	-	5-5	5-5
	Ilfracombe	-	-	-	-	-	-	-	-		Weston-s-Mare	b.b.c.o	44	37	-	-	-	-	-

STATIONS.		SUMMARIES FOR PAST 24 HOURS.												BEAUFORT NOTATION.		THE BEAUFORT SCALE OF WIND FORCE.					
		WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	RAINFALL.		Sun. Hours.	WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	RAINFALL.		Sun. Hours.
7h-18h 17 th	18h-19h 17 th	18h 17 th -1h 18 th	1h-7h 18 th	Day	Night	mm.	Day	Night	mm.	Hours.	7h-18h 17 th	18h-19h 17 th	18h 17 th -1h 18 th	1h-7h 18 th	Day	Night	mm.	Day	Night	mm.	Hours.
Renfrew	o.g.f.4gf	o gf	b x	o4o5x	33	22	13	-	-	0-0	0-0	c	bc	58	48	-	-	8-8	8-8		
Eskdalemuir	b. b6x	b x	b x	bbcx ca x	30	14	10	-	-	5-5	5-5	b	bc	58	48	-	-	5-5	5-5		
Valencia (Cahirc'y)	3.6.0	c.0	bcc bcc	47	37	31	-	-	0-5	0-5	c	bc	58	48	-	-	5-5	5-5			
Baldonnel	oaf. e.0.0	b. c.0.0	o3.6.24	c o x	38	26	21	-	-	2-0	2-0	d	drizzle, or fine rain.	5-5	5-5	-	-	5-5	5-5		
Manchester (Alex. Pk.)	o3f. o3f	o3f. o3f	bcc. 3f	c o 3f	29	32	21	-	-	4	4	e	wet air without rain falling.	5-5	5-5	-	-	5-5	5-5		
Ross on Wye	o3f. bcc.0.3f	o3f. 2.0.2f	o3f. 0.4-5f	3f. pd. o3f. 4f	37	32	32	-	0-4	2-5	2-5	f	fog.	5-5	5-5	-	-	5-5	5-5		
Falmouth	b. 0.4	b. bcc.0.4f	b. 0.4	o1f.	39	27	26	-	-	6-1	6-1	g	gloom.	5-5	5-5	-	-	5-5	5-5		
Calshot (Hants)	oif.	oif. o2f	dd. o2f	o2f	38	33	34	-	trace	0-0	0-0	h	hail.	5-5	5-5	-	-	5-5	5-5		
Lympne (Folkestone)	o3f. o3f. o3f	o3f. o3f	o2f	o2f. o3f. o3f	34	29	31	0-3	0-2	0-0	0-0	i	lightning.	5-5	5-5	-	-	5-5	5-5		
Aberdeen	3f x	3f. 2f	2f x	3f x	36	25	17	-	-	3-8	3-8	j	mist.	5-5	5-5	-	-	5-5	5-5		
Howden	1f. 1f. 1f.	1f. 1f.	1f. 1f.	2f. 0	39	29	22	+	+	0-0	0-0	k	overcast sky.	5-5	5-5	-	-	5-5	5-5		
Cranwell (Lincolns)	o3f. o2c	pd. 02f	o2f.	o	35	32	30	0-1	0-2	2-8	2-8	l	passing showers.	5-5	5-5	-	-	5-5	5-5		
Felixstowe	o3f. pd.	pd. 02f	pd. 02f	pd. 1	38	34	29	0-3	2	0-0	0-0	m	squalls.	5-5	5-5	-	-	5-5	5-5		
Shoebury Ness	pd. 02f	pd. 02f	pd. 02f	pd. 1	38	34	31	1	2	0-0	0-0	n	sleet, i.e., rain and snow together.	5-5	5-5	-	-	5-5	5-5		
Benson	o	o	pd. 0	pd. 0	36	32	33	0-1	0-4	*	*	o	rain.	5-5	5-5	-	-	5-5	5-5		
S. Farnborough	pd. d. d.	2f. dd.	03f. pd.	02f. pd.	37	33	33	-	1	0-0	0-0	p	thunder.	5-5	5-5	-	-	5-5	5-5		
London (Kew Obsy.)	1/2 d. d.	0.2. 0.2f	pd. 02f	02f	36	35	34	0-3	0-1	0-0	0-0	q	ugly, threatening sky.	5-5	5-5	-	-	5-5	5-5		
Croydon	0.0. 0.0. 0.0	0.0. 0.0. 0.0	0.0. 0.0. 0.0	0.0. 0.0. 0.0	37	34	34	1	1	*	*	r	unusual visibility.	5-5	5-5	-	-	5-5	5-5		

LONDON. OBSERVATIONS.	WEATHER.												SOUTH KENSINGTON (Meteorological Office).		TABLE SHOWING THE GREENWICH TIME OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.	
	Morning.	Afternoon.	Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall. mm.	Sunrise to Sunset Hours.	18h. G.M.T.	9h. G.M.T.	18h. G.M.T.	9h.				



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No.BR1577 Sunday, 19th December, 1920.DON
0.

ENDED 7H.

TEMPERATURE.

MAX.
°F.Min.
°F.

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SUMMARY OF CONDITIONS AT 7 h.G.M.T. 19.12.1920.

Districts	Weather, Cloud and Precipitation	Visibility	Sea	Position Number	Date	Time G.M.T.	Sea °F	Air °F
1. S.E. England	Dull, slight rain & mist.	Indiff.	Mod.	5	18 th	0850	50	44
2. E. England	Dull, some rain.	Fair	Slight	5	18 th	1000	49	44
3. E. Midlands	Dull, some mist.	Poor	-	7	19 th	0800	50	43
4. W. Midlands	Dull, some mist.	"	-	4A	19 th	0530	46	40
5. S.W. England	Dull, some mist.	Fair	Slight	8	19 th	0538	44	40
6. South Wales	Overcast.	Good	Smooth					
7. North Wales	Overcast.	Fair	Calm					
8. N.W. England	Overcast.	Poor	V.SMOOTH					
9. N. Midlands	Dull, some mist.	"	-					
10. N.E. England	Dull, local mist.	Indiff.	Slight					
11. E. Scotland	Fine to cloudy, local mist.	"	Smooth					
12. S.W. Scotland	Overcast, local mist.	"	"					
13. Isle of Man	Overcast, misty.	Poor	"					
14. N. & N.W. Scotland	Fair.	Fair	"					
15. Hebrides	Fair to dull, local squalls.	Good	Mod.					
16. Orkneys and Shetlands	Cloudy.	Indiff.	V.SMOOTH					
17. N.W. Ireland	Variable sky, local mist.	Fair	Slight					
18. N.E. Ireland	Dull, misty.	Indiff.	V.SMOOTH					
19. S.E. Ireland	Overcast.	Fair	Smooth					
20. S.W. Ireland	Cloudy, some haze.	Good	Slight					



Barometric change from 4 h. to 7 h. (half millibars).

GENERAL INFERENCE from observations received up to 9h.

The anticyclone over England will probably decrease still further in intensity and perhaps move in a Southerly direction, leading finally to a considerable alteration in the pressure distribution - perhaps to a South-Westerly type.

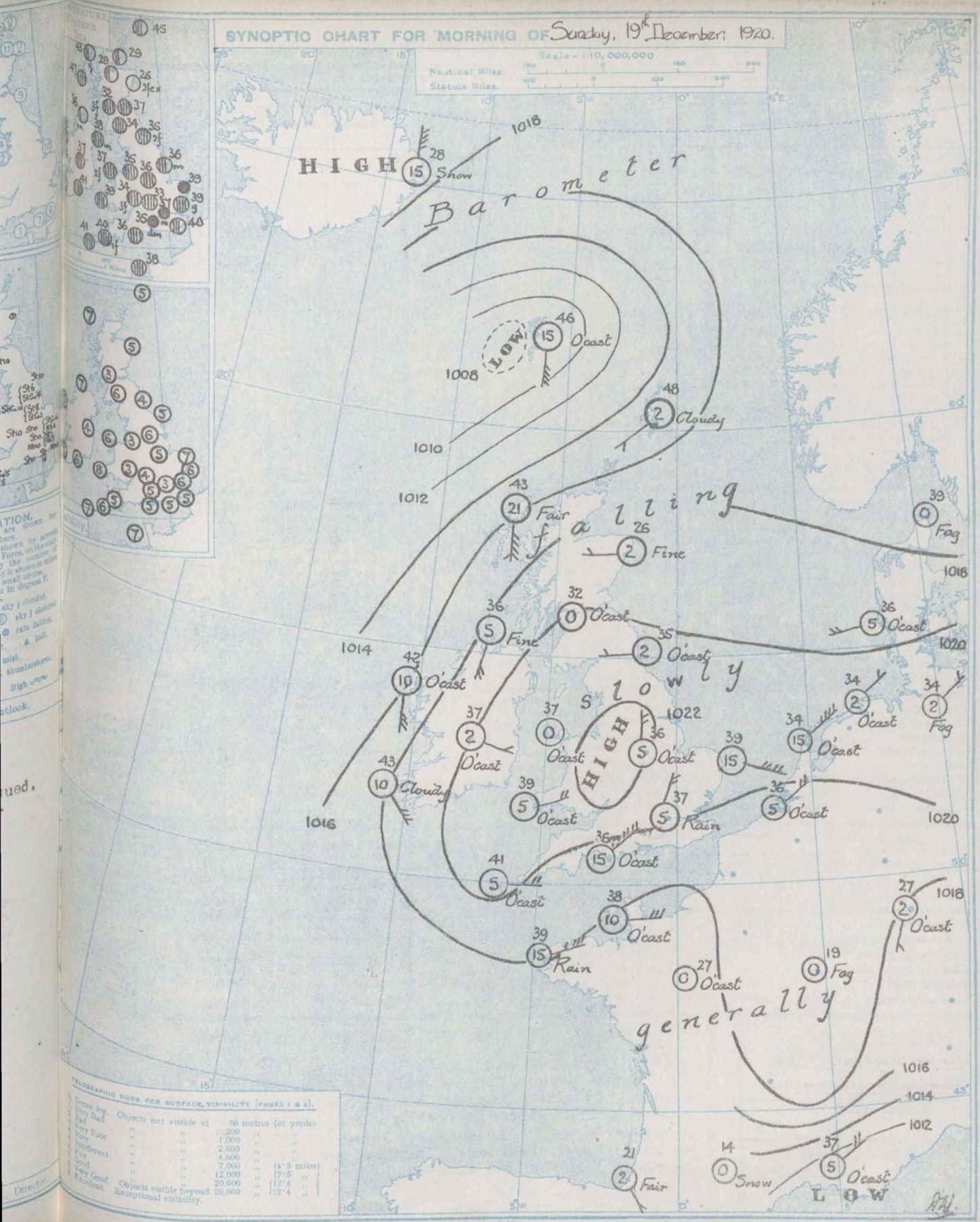


EXPLANATION.
 BAROMETER. - Isallobars are drawn for intervals of two millibars.
 WIND. - Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
 TEMPERATURE is given in degrees F.
 WEATHER SYMBOLS -
 ☀ clear sky. ☁ sky 1 clouded.
 ☁ sky 2 clouded. ☂ sky 3 clouded.
 ☃ overcast sky. ☄ rain falling.
 ✪ snow. ★ sleet. ☆ hail.
 ☵ fog. ☷ mist.
 T thunder. ☸ thunderstorm.
 SEA DISTURBANCE. - High seas.

Further Outlook.

None issued.

Districts	Forecasts for the 24 hours commencing 15 h.G.M.T. Sunday, 19th December, 1920.
1. S.E. England	Wind E. or N.E., light, then more variable; much cloud, some rain or drizzle, mist or fog locally, visibility mainly indifferent; no great change of temperature.
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	Wind variable, then between S. and W., light; much cloud, some fairer intervals; temperature rising later.
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	
14. N. & N.W. Scotland	Wind between S. and S.W., light or moderate, fresh locally; cloudy or variable sky, some rain or showers; temperature rising.
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	Wind S.E. to S.W., light to fresh; cloudy to dull, some rain later; temperature rising.
20. S.W. Ireland	



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. NO. 364. { 19th December Sunday }

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 18 th Dec.																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h	Day 19h-18h	Sunrise to Sunset 18h-18h				Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 17h-18h	Day 18h-17h	Sunrise to Sunset 17h-18h	
Scotland, Oban	0	0	41	36	-	-	-	0.0	Douglas (I.O.M.)	0	0	38	32	-	-	0.0	0.0		
Banff	b.	6.6c	40	21	-	-	-	2.7	Blackpool	0	0	37	28	-	-	0.0	0.0		
Montrose	...	...	...	...	...	...	...	...	Southport	0	0	37	28	-	-	...	...
St. Andrews	...	...	...	...	...	...	...	...	England, N.W.	...	...	...	...	...	...	...	...
England, N.E., Harrogate	0	0	35	32	-	-	-	0.0	Buxton	...	...	...	...	...	...	...	0.0
Scarborough	b.	0	42	36	1	-	-	0.0	Leamington Spa	0d	0	40	34	1	-	0.0	0.0		
Skegness	...	...	...	...	...	...	...	...	Malvern	...	...	...	...	...	...	...	0.0
E. England, Lowestoft	...	...	...	...	...	...	...	...	Bath	op	op	39	35	0.3	-	...	...
Felixstowe	0m0	0m0	41	40	2	1	1	0.0	Rhyl	...	...	...	...	...	...	...	0.0
Southend-on-Sea	0d	0d	39	33	1	1	1	0.0	Colwyn Bay	...	...	...	...	...	...	...	0.0
England, S.E., Tunbridge Wells	0m0	0.0m0	38	34	3	1	1	0.0	Llandudno	...	...	...	...	...	...	...	0.0
Margate	0	op	43	36	1	0.2	0.2	0.0	Aberystwyth	0.0.C	0	37	26	-	-	0.0	0.0		
Ramsgate	*	*	41	39	1	-	0.2	0.0	Tenby	...	...	...	...	...	...	...	...
Folkestone	0	0	39	34	-	0.2	0.2	0.0	Swansea	...	...	...	...	...	...	...	...
Hastings	0	0d.0	38	34	1	1	1	0.0	Weymouth	0	0	39	33	-	-	0.0	0.0		
Eastbourne	0.7.0	0	39	35	1	0.4	0.4	0.0	Teignmouth	...	...	...	...	...	...	...	0.0
Brighton	...	...	...	...	...	...	...	...	Torquay	...	...	...	...	...	...	...	0.0
Worthing	0d	0	39	35	-	-	-	0.0	Paignton	0m0	0	40	35	-	-	0.0	0.0		
Littlehampton	0m0	0.0m	40	34	0.2	1	1	0.0	Penzance	0	0.0	42	32	-	-	0.0	0.0		
Portsmouth (S'thess)	*	*	40	36	-	2	2	0.0	Newquay	...	...	...	...	...	...	...	0.0
Bournemouth	*	*	...	...	...	...	...	...	Bude	0	0	40	28	-	0.3	0.0	0.0
Ventnor (I. of W.)	*	*	...	...	...	...	...	...	Ilfracombe	0	0d	41	37	0.4	0.1	0.1	0.0
...	...	...	...	...	...	...	...	...	Weston-s-Mare	...	...	...	...	...	...	...	...

STATIONS.		SUMMARIES FOR PAST 24 HOURS.								BEAUFORT NOTATION.				THE BEAUFORT SCALE OF WIND FORCE.				
		7h-18h 18h-19h	18h-19h 19h-20h	18h 19h 20h	19h 20h 21h	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall, + mm.	Day 7h-18h	Night 18h-7h	Sun. Hours.	b blue sky (not more than a quarter covered).	bc sky partly cloudy (one half covered).	c generally cloudy (three quarters covered).	d drizzle, or fine rain.		
Renfrew	0.4.5f	0.4.5f	0.4.5f	0.4.5f	0.4.5f	35	26	20	-	-	-	0.0	bc	c	d	Less than 1	Less than 0.8	
Eskdalemuir	0.4.6b0	0	0.4.6b0	0	0.4.6b0	34	22	20	-	-	-	0.0	0.0	0.0	0.0	0.8-1.6	0.8-1.6	
Valencia (Cahircra)	b. bc	c.0.3	0.1	0.03	16	37	39	-	-	-	-	2.2	0.0	0.0	0.0	1.6-3.2	1.6-3.2	
Baldonnel	0.2f.0	0.2f.0	0.2f.0	0.2f.0	0.2f.0	39	34	32	-	-	-	0.0	0.0	0.0	0.0	3.2-5.6	3.2-5.6	
Manchester (Alfreton)	0.3f	0.3f	0.3f	0.3f	0.3f	40	34	39	-	-	-	0.0	0.0	0.0	0.0	5.6-7.9	5.6-7.9	
Ross on Wye	0.4.7f	0.4.7f	0.4.7f	0.4.7f	0.4.7f	37	33	31	0.5	0.1	0.0	0.0	0.0	0.0	0.0	8.0-10.7	8.0-10.7	
Falmouth	0.1f	0.1f	0.1f	0.1f	0.1f	40	36	35	-	-	-	0.0	0.0	0.0	0.0	10.7-13.4	10.7-13.4	
Calshot (Hants)	0.2f.0	0.2f.0	0.2f.0	0.2f.0	0.2f.0	40	37	36	0.1	0.1	0.0	0.0	0.0	0.0	0.0	13.4-17.1	13.4-17.1	
Lympne (Folkestone)	0.2f.0	0.2f.0	0.2f.0	0.2f.0	0.2f.0	37	32	33	1	0.2	0.0	0.0	0.0	0.0	0.0	17.1-20.7	17.1-20.7	
Aberdeen	3.2.5f	4.5f	0.3f.0	0.3f.0	0.3f.0	33	25	17	-	-	-	2.6	0.0	0.0	0.0	20.7-24.4	20.7-24.4	
Howden	b.0.0f	0.1f.0f	0.0.0f	0.0.0f	0.0.0f	36	22	21	-	-	-	0.0	0.0	0.0	0.0	24.4-28.1	24.4-28.1	
Cranwell (Lincs)	0.2f.0	0.1f.4	0.2f.0	0.2f.0	0.2f.0	37	32	31	0.1	0.1	0.0	0.0	0.0	0.0	0.0	28.1-31.8	28.1-31.8	
Felixstowe	0.2.0f	0.2.0f	0.2.0f	0.2.0f	0.2.0f	41	37	32	1	1	1	0.0	0.0	0.0	0.0	31.8-35.5	31.8-35.5	
Shoeburyness	0.2.0f	0.2.0f	0.2.0f	0.2.0f	0.2.0f	35	34	36	1	1	1	0.0	0.0	0.0	0.0	35.5-39.2	35.5-39.2	
Benson	0	0	0	0	0	39	23	23	-	-	-	0.0	0.0	0.0	0.0	39.2-42.9	39.2-42.9	
S. Farnborough	0.2.0f	0.2f	0.2f	0.2f	0.2f	39	35	34	0.3	Trace	0.0	0.0	0.0	0.0	0.0	0.0	42.9-46.6	42.9-46.6
London (Kew Obs.)	0.2f.0	0.2f.0	0.2f.0	0.2f.0	0.2f.0	41	37	36	Trace	Trace	0.0	0.0	0.0	0.0	0.0	0.0	46.6-50.3	46.6-50.3
Croydon	0.2f.0	0.2f.0	0.2f.0	0.2f.0	0.2f.0	40	37	37	1	0.3	0.0	0.0	0.0	0.0	0.0	50.3-54.0	50.3-54.0	

LONDON OBSERVATIONS.

Morning.

Afternoon.

Night.

Max. Temp. °F.

Min. Temp. °F.

Min. on Grass °F.

Rainfall, mm.

Sunshine to Sunset.

Hours.

18 h. G.M.T.

9 h. G.M.T.

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total Joules.

Milliwatts.

Average Rate.

Maximum Rate.

SOUTH KENSINGTON (Meteorological Office).

Stations.

Sunrise.

Noon.

G.M.T.

DON

20.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. BR 1578 Monday, 20th December 1920.

TEMPERATURES	
MAX. °F.	MIN. °F.
39	32
48	45
48	37
51	48
52	32
52	49
62	52
68	55
58	45
61	49
68	49
73	54
66	48
NTIC.	
Weather.	Sea
	0-5

STATIONS	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 19H.																												
	BAROM. at M.S.L. mb.	↓ Change in 3 hours.	WIND.		TEMP. °F.	Humidity, % 0-9.	Visibility, 0-9.	Height of Low Cloud, Feet.	Low Cloud			Upper Cloud			Sea	BAROM. at M.S.L. mb.	↓ Change in 3 hours.	WIND.		TEMP. °F.	Humidity, % 0-9.	Visibility, 0-9.	Height of Low Cloud, Feet.	18H. G.M.T. OF 19 th					
			Dir.	Force 0-12.					Form.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.	Dir.			Force 0-12.	Form.	Amt. 0-10.			0-9.							
19 th																													
Renfrew ...	1017.6	-5	SW	2	0.2f	39	83	3	3,000	SF	10	-	-	*	1015.4	-2	SSW	3	0.2f-2f	38	85	3	2,000	SF	10	-	-	-	
Eskdalemuir ...	1018.5	-6	SSW	2	0.2f	35	80	5	-	Sf Cu	10	-	-	*	1016.6	-2	S	2	0.2f	33	97	3	1,250	Sf	10	-	-	-	
Vaencia (Cahirc'n)	1014.3	-7	SSE	5	3c	47	75	8	14,200	Cu	4	-	-	*	1012.1	-2	S	4	0	46	75	8	4,200	Sf Cu	6	0.5f	4	4	
Baldonnel ...	1017.9	-4	SSE	4	0.2f	39	86	6	2,000	Sf	10	-	-	*	1015.4	-2	SSE	4	0.2f	40	75	4	2,000	Sf	10	-	-	-	
Manchester (Cheshire)	1020.6	-4	WSW	1	0.2f	36	86	5	1,200	Sf	10	-	-	*	1018.7	-2	-	0	0.2f	36	75	5	2,000	Sf	10	-	-	-	
Ross on Wye ...	1019.4	-4	NE	1	0.2f	35	75	4	-	Sf Cu	10	-	-	*	1018.4	-1	ENE	1	0.2f	34	97	3	4,500	Sf	10	-	-	-	
Falmouth ...	1017.9	-5	NNE	8	0.2f	39	75	4	-	Sf Cu	10	-	-	*	1007.7	+1	ENE	2	0.2f	39	75	4	-	Sf	10	-	-	-	
Calshot (Hants) ...	1017.8	-4	N	3	0.2f	38	86	6	2,000	Sf	10	-	-	*	1017.1	0	MNE	3	0.1f	38	92	6	1,250	Sf	10	-	-	2.	
Lympne (Folkestone)	1017.0	-4	NR	4	0.2f	36	92	4	750	Sf	10	-	-	*	1016.8	0	M	1	0.2f	35	97	3	4,500	Sf	10	-	-	-	
Aberdeen ...	1016.2	-4	-	0	0.2f	32	92	2	-	-	-	-	-	*	1014.1	-2	WSW	1	0.2f	32	85	6	-	-	ACu	1	2.		
Howden ...	1020.0	-4	-	0	0.2f	36	91	5	4,000	Sf	10	-	-	*	1018.4	-1	-	0	0.2f	33	97	5	3,000	Sf Cu	10	-	-	-	
Cranwell (Lincoln)	1020.2	-3	N	3	0.2f	36	78	4	1,200	Sf	8	-	-	*	1019.2	0	M	2	0.2f	34	92	4	1,250	Sf	10	-	-	-	
Felixstowe ...	1019.0	-3	N	3	0.2f	38	92	5	2,000	Sf Cu	10	-	-	*	1018.1	0	M	3	0.2f-2f	38	97	5	2,000	Sf Cu	10	-	-	-	
Shoeburyness ...	1017.8	-4	NE	1	0.2f	37	92	6	1,200	Sf Cu	10	-	-	*	1017.0	0	M	1	0.2f	32	92	4	1,250	Sf Cu	10	-	-	-	
Benson ...	1018.7	-2	ME	2	0.2f	36	92	3	-	-	-	-	-	*	1017.7	0	MHE	1	0	25	97	3	-	Sf	10	-	-	-	
S. Farnborough	1018.2	-4	N	1	0.2f	37	92	5	750	Sf	10	-	-	*	1017.7	0	M	1	0.2f	36	97	5	750	Sf	10	-	-	-	
London (Kew Observatory)	1018.1	-4	NNE	3	0.2f	38	85	3	2,000	Sf Cu	8	A Sf	2	*	1017.5	0	MHE	2	0.2f	37	92	3	1,250	Mb	10	-	-	-	
Croydon ...	1018.7	-4	NE	3	0.2f	37	92	3	2,000	Sf	10	-	-	*	1017.7	0	MHE	3	0.2f	36	97	2	2,500	Sf	10	-	-	-	
7H. G.M.T. OF 20 th																													
Renfrew ...	1018.7	-3	SSW	3	0.2f	32	97	3	1,200	Sf	10	-	-	*	1005.2	-7	ESR	1	0.2f-2f	39	92	4	1,200	Sf	10	-	-	-	
Eskdalemuir ...	1007.9	-4	SEW	5	0.2f	48	*	*	*	*	*	*	*	*	1008.6	-5	S	2	0.2f	32	85	6	2,000	Sf	10	-	-	-	
Baldonnel ...	1012.2	-4	S	4	0.2f	40	85	5	2,000	Sf Cu	10	-	-	*	1006.4	0	SW	3	0	48	92	8	4,000	Sf	10	-	-	-	
Merthyr (Monmouth)	*	*	N	6	*	*	*	*	*	*	*	*	*	*	*	1012.9	-3	S	4	0.2f	34	80	8	3,000	Sf	10	-	-	-
Ross on Wye ...	*	*	N	6	*	*	*	*	*	*	*	*	*	*	*	1014.1	-6	SSE	1	0.2f	32	92	5	1,250	Sf	10	-	-	-
Falmouth ...	1015.4	-3	-	0	0.2f	36	92	8	-	-	-	-	*	*	1014.1	0	S	2	0.2f	35	97	7	-	Sf Cu	1	-	-	-	
Calshot (Hants) ...	1015.9	-3	N	1	0.2f	36	92	4	1,200	Sf	10	-	-	*	1015.2	-1	NW	1	0.2f	37	92	4	1,200	Sf	10	-	-	-	
Lymnepet (Folkestone)	1015.9	-2	NE	1	0.2f	34	97	3	2,000	Sf	10	-	-	*	1016.7	-1	-	0	0.2f	34	97	1	2,500	Sf	10	-	-	-	
Aberdeen ...	*	*	N	4	*	*	*	*	*	*	*	*	*	*	*	1005.5	-6	SSW	3	0.2f	36	85	4	-	-	-	-	2.	
Howden ...	1017.0	-4	W	2	0.2f	35	97	6	4,000	Sf	10	-	-	*	1012.2	-1	SSW	1	0.2f	35	92	4	2,000	Sf	10	-	-	-	
Cranwell (Lincoln)	1017.0	-4	W	2	0.2f	35	97	6	4,000	Sf	10	-	-	*	1014.6	-1	SW	1	0.2f-2f	34	97	5	2,000	Nb	10	-	-	-	
Felixstowe ...	*	*	N	4	*	*	*	*	*	*	*	*	*	*	*	1014.6	-1	W	2	0.2f	35	97	5	2,000	Sf	10	-	-	-
Shoeburyness ...	*	*	N	4	*	*	*	*	*	*	*	*	*	*	*	1014.6	0	O	0	0.2f	36	92	3	1,200	Sf Cu	10	-	-	-
Benson ...	*	*	N	4	*	*	*	*	*	*	*	*	*	*	*	1014.9	-1	O	0	0.2f	36	97	4	-	Sf	10	-	-	-
S. Farnborough	*	*	N	4	*	*	*	*	*	*	*	*	*	*	*	1015.0	-1	W	1	0.2f	36	97	2	1,200	Sf	10	-	-	-
London (M.O. at 1m.)	1015.6	-3</td																											

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 20.12.1920.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.	Temperature reported from Coastal and Cross Channel Steamers				
				Position Number	Date	Time G.M.T.	Sea °F	Air °F
1. S.E. England	Dull, mist or fog.	V.Poor	Slight	3	19 th	1000	50	44
2. E. England	Dull, local mist.	Indiff.	V.SMOOTH					
3. E. Midlands	Dull.	Poor	-					
4. W. Midlands	Dull, local mist.	V.Poor	-					
5. S.W. England	Fine to dull.	Good	Slight					
6. South Wales	Dull.	"	"					
7. North Wales	Dull, squally.	"	Mod.					
8. N.W. England	Fair to dull, local mist.	Poor	Smooth					
9. N. Midlands	Dull, local mist.	"	-					
10. N.E. England	Fine to dull, misty.	Indiff.	Smooth					
11. E. Scotland	Fine to dull, local mist.	Poor	"					
12. S.W. Scotland	Dull, misty, local rain.	Indiff.	"					
13. Isle of Man	Dull, some mist.	Fair	Slight					
14. N. & N.W. Scotland	Dull, slight local rain.	Poor.	Mod.					
15. Hebrides	Dull, slight rain.	Indiff.	R.Rough					
16. Orkneys and Shetlands	Dull.	Fair	Smooth					
17. S.W. Ireland	Fair.	Good	R.Rough					
18. N.E. Ireland	Cloudy or dull, local mist.	Fair.	Slight					
19. S.E. Ireland	Dull, local rain.	"	"					
20. S.W. Ireland	Dull, local rain.	Good	Mod.					

Barometric change from 4 h. to 7 h. (half millibars).

GENERAL INFERENCE from observations received up to 9h.

A deep depression centred near the Faroe Islands is likely to move slowly Eastward. Weather will be rainy and temporarily milder in all districts, but colder weather is likely to spread later from the North-West.



EXPLANATION.
BAROMETER. Isobars are drawn at intervals of two millibars.
WIND. Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE. is given in degrees F.
WEATHER SYMBOLS.
 ○ clear sky.
 ○ sky + cloudy.
 ○ sky + cloudy.
 ○ overcast sky.
 ✪ snow.
 ✪ sleet.
 ☁ fog.
 T thunder.
SEA DISTURBANCE. High - - - - -

Further Outlook.

Milder temporarily with Westerly winds; colder weather likely to spread from North-West.

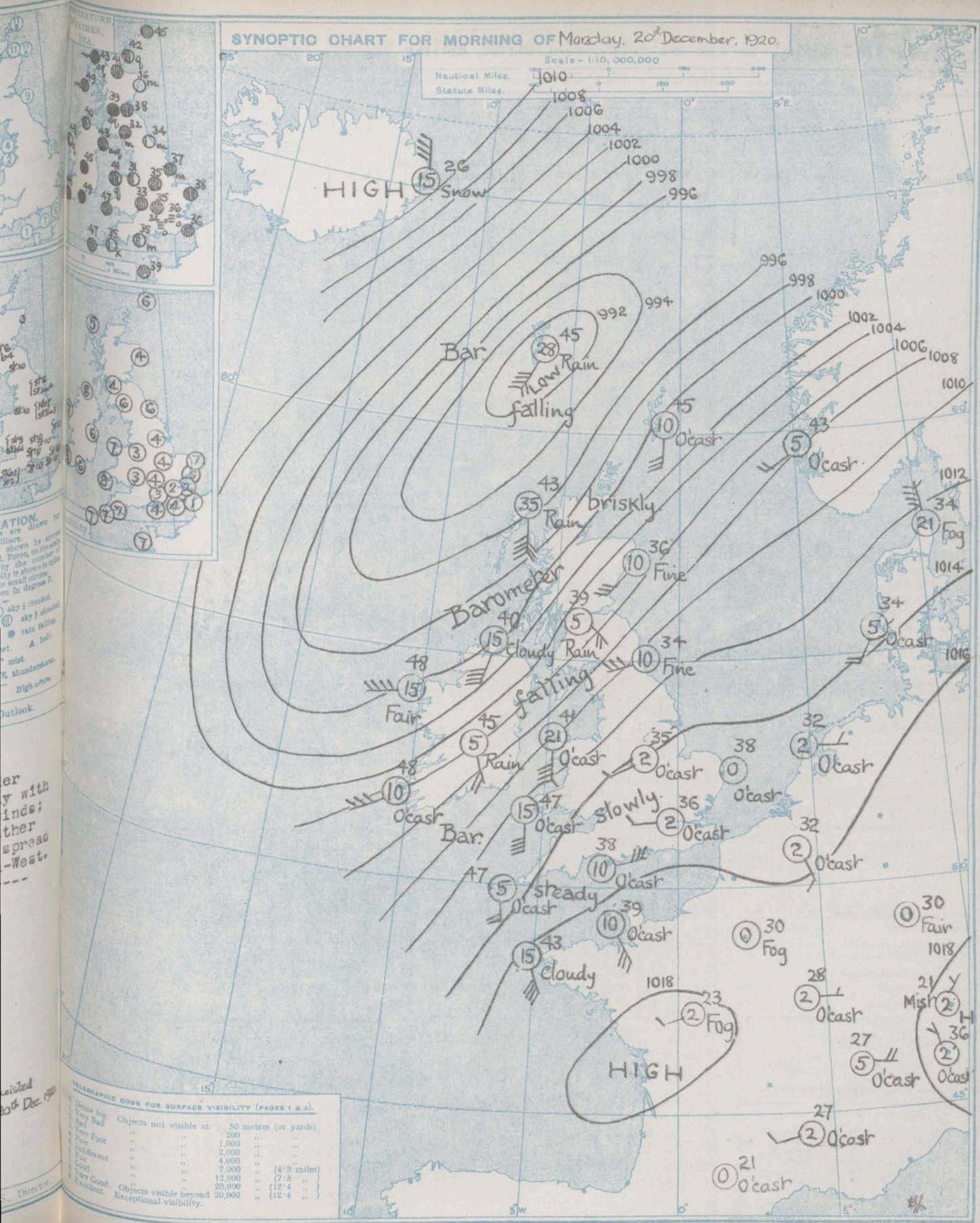
▼ South Cone hoisted morning 20th Dec 1920

E.G.A. G. C. SIMPSON, F.R.S., Director.

Forecasts for the 24 hours commencing 15 h. G.M.T. Monday, 20th December, 1920.

1. S.E. England	Wind S. veering W., light to moderate; dull, some rain, visibility indifferent to fair, local mist; milder.
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	Wind S.W. veering W. or N.W., moderate or fresh; some rain early, improving later, visibility fair but local mist; rather mild.
6. South Wales	
7. North Wales	
8. N.W. England	Wind S.W. to W., moderate; dull, some rain, visibility indifferent to fair; milder.
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	As for 5 - 8.
13. Isle of Man	
14. N. & N.W. Scotland	Wind S.W. veering W. or N.W., strong to a gale, moderating later; dull, some rain, then improving; mild, then colder.
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	Wind W. or N.W., moderate to fresh; variable sky, rain or hail showers, visibility fair to good; mild, then colder.
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	





AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 365.

Monday
20th December

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 19 th																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 18h-19h.	Day. 19h-20h.	Sunrise to Sunset. 19 th .	18 th -19 th .			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 17h-18h.	Day. 18h-19h.	Sunrise to Sunset. 19 th .	18 th -19 th .
Scotland.	Oban	bc.	bc.	35	23	-	-	4-2	18 th -19 th .	England, N.E.	Douglas (I.O.M.)	o. o.	o. o.	36	34	-	-	0.0	0.0
	Banff	bc.	bc.	35	23	-	-	4-2	18 th -19 th .		Blackpool	o. o.	o. o.	36	34	-	-	0.0	0.0
	Montrose	bc.	bc.	34	22	-	-	4.0	18 th -19 th .		Southport	o. o.	o. o.	36	34	-	-	0.0	0.0
	St. Andrews	bc.	bc.	34	22	-	-	4.0	18 th -19 th .	England, S.E.	Morecambe	o. o.	o. o.	36	34	-	-	0.0	0.0
England, E. N.E.	Harrogate	o. o.	o. o.	34	22	-	-	0.0	18 th -19 th .		Buxton	o. o.	o. o.	36	34	0.3	-	0.0	0.0
	Scarborough	o. o.	o. o.	34	22	-	-	0.0	18 th -19 th .		Leamington Spa	o. o.	o. o.	36	34	0.3	-	0.0	0.0
	Skegness	o. o.	o. o.	34	22	-	-	0.0	18 th -19 th .		Malvern	o. o.	o. o.	37	34	1	-	0.0	0.0
England, S.E.	Lowestoft	omd.	omd.	39	33	2	0.2	0.0	18 th -19 th .		Bath	o. o.	o. o.	37	34	1	-	0.0	0.0
	Felixstowe	omd.	omd.	38	35	1	2	0.0	18 th -19 th .	Wales.	Rhyl	o. o.	o. o.	38	29	-	-	0.0	0.0
	Southend-on-Sea	ad.	ad.	38	35	1	2	0.0	18 th -19 th .		Colwyn Bay	o. o.	o. o.	37	33	-	-	0.0	0.0
	Tunbridge Wells	omd.	omd.	37	35	2	1	0.0	18 th -19 th .		Llandudno	o. o.	o. o.	38	33	-	-	0.0	0.0
	Margate	o. o.	o. o.	42	39	-	-	0.0	18 th -19 th .		Aberystwyth	o. o.	o. o.	37	33	-	-	0.0	0.0
	Ramsgate	o. o.	o. o.	40	36	-	-	0.0	18 th -19 th .		Tenby	o. o.	o. o.	37	33	-	-	0.0	0.0
	Folkestone	o. o. o.	o. o.	44	34	0.3	-	0.0	18 th -19 th .		Swansea	o. o.	o. o.	37	33	-	-	0.0	0.0
	Hastings	ofd.	ofd.	39	37	1	2	0.0	18 th -19 th .	England, S.W.	Weymouth	bc.	o. o.	39	36	-	-	0.7	0.7
	Eastbourne	ofd.	ofd.	38	37	1	2	0.0	18 th -19 th .		Teignmouth	o. o.	o. o.	40	37	0.1	-	0.0	0.0
	Brighton	ad.	ad.	39	37	1	1	0.0	18 th -19 th .		Torquay	o. o.	o. o.	40	36	-	-	0.0	0.0
	Worthing	ad.	ad.	39	37	1	1	0.0	18 th -19 th .		Paignton	o. o.	o. o.	41	38	-	-	0.0	0.0
	Littlehampton	ad.	ad.	38	35	-	-	0.7	18 th -19 th .		Penzance	o. o.	o. o.	38	35	-	-	0.0	0.0
	Portsmouth (S'thosa)	ad.	ad.	38	35	-	-	0.7	18 th -19 th .		Newquay	o. o.	o. o.	38	35	-	-	0.0	0.0
	Bournemouth	ad.	ad.	38	35	-	-	0.7	18 th -19 th .		Bude	o. o.	o. o.	40	36	-	-	0.0	0.0
	Ventnor (I. of W.)	ad.	ad.	38	35	-	-	0.7	18 th -19 th .		Ilfracombe	o. c.	o. c.	39	37	0.2	-	0.0	0.0
											Weston-s-Mare	m.o.	m.o.	37	34	-	-	0.0	0.0

SUMMARIES FOR PAST 24 HOURS.														
STATIONS.		WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	RAINFALL.		Sun. Hours.	HUMIDITY %		
		7h-18h th	18h-19h th	18h-19h th -1h ^{ad}	1h-20h th				Day. 18h-19h.	Night. 18h-19h.		16h. G.M.T.	9h. G.M.T.	SOUTH KENNINGTON (Meteorological Office).
Renfrew	0.2f. 0.3f.	0.3f. 1.0	0.3f.	0.2f. 1.0	40	32	30	mm.	mm.	mm.	0.0	91	95	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.
Eskdalemuir	0.2f.	0.3f. 0.50	1.0. 1.0	0.3f. 0.50	36	30	30	0.3	1	0.0	0.0	91	95	20 th December 1920.
Valencia (Cahirc'ua)	c. 0.20. c.	0.20. 0.0	0.11	0.11. 0.0	50	40	44	-	Y	2.0	0.0	91	95	20 th December 1920.
Baldonnel	0.1f.	0.1f. 0.2f.	0.1f. 0.2f.	0.1f. 0.2f.	44	37	36	9	0.4	0.0	0.0	91	95	20 th December 1920.
Manchester (Pic. PK)	0.2f. 0.2f.	0.2f. 0.30	0.2f.	0.2f. 0.30	38	34	30	-	-	-	0.0	91	95	20 th December 1920.
Ross on Wye	0.2f. 0.25	0.2f. 0.25	0.2f. 0.25	0.2f. 0.25	36	32	20	0.1	Mac	0.0	0.0	91	95	20 th December 1920.
Falmouth	0.0. 0.0	0.0. 0.0	0.0. 0.0	0.0. 0.0	36	29	24	-	-	-	0.0	91	95	20 th December 1920.
Calshot (Hants)	0.1f. 0.1f.	0.1f. 0.1f.	0.1f. 0.1f.	0.1f. 0.1f.	40	35	33	Trace	Trce	0.0	0.0	91	95	20 th December 1920.
Lympne (Folkestone)	0.2f. 0.2f.	0.2f. 0.2f.	0.2f. 0.2f.	0.2f. 0.2f.	36	32	32	1	0.2	0.0	0.0	91	95	20 th December 1920.
Aberdeen	1.0. 1.0	1.0. 1.0	1.0. 1.0	1.0. 1.0	37	31	19	-	-	-	2.2	91	95	20 th December 1920.
Howden	1.0. 0	0.2f. 0.1f.	0.2f. 0.1f.	0.2f. 0.1f.	36	32	31	-	-	-	0.0	91	95	20 th December 1920.
Cranwell (Lincs)	ps. 0.2f.	0.2f. 0.2f.	ps. 0.2f.	ps. 0.2f.	36	32	32	0.0	0.0	-	0.0	91	95	20 th December 1920.
Felixstowe	ps. 0.2f.	0.2f. ps.	ps. 0.2f.	ps. 0.2f.	36	32	32	0.0	0.0	-	0.0	91	95	20 th December 1920.
Shoeburyness	0.0. 0	0.0. 0	0.0. 0	0.0. 0	36	31	25	2	1	0.0	0.0	91	95	20 th December 1920.
Benson	0.	0.	0.	0.	37	32	27	0.1	0.1	0.0	0.0	91	95	20 th December 1920.
S. Farnborough	0.1f.	0.2f. 0.2f.	0.2f. 0.2f.	0.2f. 0.2f.	37	34	34	0.3	0.1	0.0	0.0	91	95	20 th December 1920.
London (Kew Obey.)	0.2f. 0.2f.	0.2f. 0.2f.	0.2f. 0.2f.	0.2f. 0.2f.	38	36	36	1	1	0.0	0.0	91	95	20 th December 1920.
Croydon	0.2f. 0.2f.	0.2f. 0.2f.	0.2f. 0.2f.	0.2f. 0.2f.	37	34	34	0.4	0.4	0.0	0.0	91	95	20 th December 1920.

LONDON OBSERVATIONS.		WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rain-fall. mm.	Sun-shine to Sunset. Hours.	HUMIDITY %		SOUTH KENNINGTON (Meteorological Office).
		Morning.	Afternoon.						16h. G.M.T.	9h. G.M.T.	
24 HOURS ENDED 20 th December 1920.											



AIR MINISTRY

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No.B21579

TUESDAY... 21ST DECEMBER..... 1920.

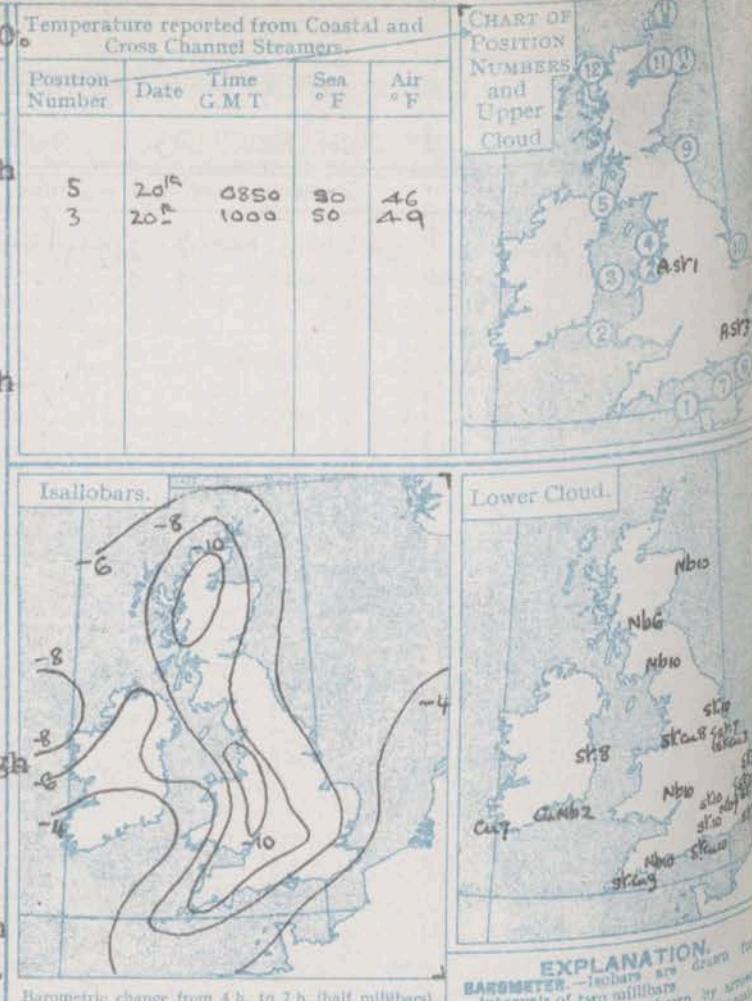
STATIONS.	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																														
	BAROM. at M.S.L. mb.	Change in hours.	WIND.		WEATHER	TEMP. °F.	Humidity 2-8	Visibility 0-8	Height of Low Cloud. Feet.	Low Cloud.			Upper Cloud			Sea	BAROM. at M.S.L. mb.	Change in hours.	WIND.		WEATHER	TEMP. °F.	Humidity 2-8	Visibility 0-8	Height of Low Cloud. Feet.	Low Cloud.			Sea		
			Dir.	Force 0-12						Form	Amt. 0-10	Form	Amt. 0-10	Form	Amt. 0-10				Dir.	Force 0-12						Form	Amt. 0-10	Form	Amt. 0-10		
Renfrew ...	999.0	-6	SSW	4	od _o	45	97	6	7250	St.C.	10	-	-	-	-	996.9	-3	SW	5	0.6f	47	97	6	1250	St.C.	10	-	-	-		
Eskdalemuir ...	1002.6	-6	SSE	2	od _o m	33	92	3	2000	Nb	10	-	-	-	-	997.7	-4	SSW	5	0.6f	43	97	3	1250	Nb	10	-	-	-		
Valencia (Cahire'n)	1004.4	-4	SSW	2	0.1f	50	92	7	1250	St.	10	-	-	-	-	999.8	-6	3	4	0.4f	50	92	6	750	St.	10	-	-	4		
Baldonnel ...	1003.4	-4	SW	5	od _o	49	95	7	2000	St.C.	10	-	-	-	-	1000.6	-3	SW	5	0.6f	48	95	5	1250	St.	10	-	-	-		
Manchester (Ald. R.)	1007.9	-7	S	4	0.3f	38	85	3	750	St.	4	A.S.	6	%	%	1004.1	-4	SSW	6	0.6f	42	85	4	3000	Nb	10	-	-	-		
Ross on Wye ...	1010.5	-4	WSW	4	0m9	41	85	6	3000	St.	10	-	-	-	-	1007.7	-3	SW	4	0	44	85	6	2000	Nb	10	-	-	-		
Falmouth ...	1011.7	-4	SW	5	0.6	49	75	7	-	Nb	10	-	-	-	-	1009.4	-2	SSW	5	0f	47	97	5	-	Nb	10	-	-	-		
Calshot (Hants) ...	1013.1	-3	SSW	2	c2f	43	85	4	2000	St.	1	A.Cu	6	1	1011.3	-2	SW	4	0.1f	46	85	6	2000	St.C.	10	-	-	2			
Lympne (Folkestone)	1013.4	-2	WSW	1	0.2f	38	97	4	750	St.C.	10	-	-	-	-	1012.1	-2	SSW	1	0.2f	37	97	4	750	St.	10	-	-	-		
Aberdeen ...	998.8	-6	SSW	4	0.2f	40	95	4	1250	St.	9	-	-	-	-	993.6	-6	SSW	3	0.2f	43	97	4	1250	St.	10	-	-	3		
Howden ...	1008.2	-6	SW	3	0.1f	37	92	4	2000	St.C.	10	-	-	-	-	1004.5	-4	SSW	3	0.6f	39	97	2	1250	Nb	10	-	-	-		
Cranwell (Lines) ...	1010.5	-4	SSW	4	0.2f	38	85	5	750	St.C.	10	-	-	-	-	1006.7	-4	SSW	5	0	41	85	5	1250	St.	10	-	-	-		
Felixstowe ...	1013.4	-3	SSW	3	0.4	39	92	5	5700	St.C.	10	-	-	-	-	1011.9	-1	SSW	4	0.3f	40	92	3	1250	St.	10	-	-	-		
Shoeburyness ...	1014.0	-2	W	1	b2f	40	85	3	2000	St.C.	5	-	-	-	-	1010.9	-2	-	0	b2f	35	85	4	-	-	-	Ci.Cu	1.	-	-	-
Benson ...	1011.2	-4	SW	3	0	40	85	6	-	St.C.	10	-	-	-	-	1009.1	-2	SSW	3	0	41	92	5	-	St.	10	-	-	-		
S. Farnborough	1013.1	-4	SW	3	CZ	42	75	6	3000	St.C.	7	Ci	1	%	1010.6	-2	S	2	0.2f	42	92	3	1250	St.	10	-	-	-			
London (Kew Obs.)	1012.5	-3	SN	2	b2f	40	85	4	-	-	A.Cu	5	%	1010.2	-4	SSW	3	C	40	92	5	-	-	A.Cu	7	-	-	-			
Croydon ...	1013.0	-2	W	3	C1f	41	75	6	3000	St.C.	5	Ci	2	%	1011.2	-2	SSW	3	0.2f	39	93	4	4200	St.C.	9	-	-	-			
Renfrew	993.2	-5	S	6	0.2f	44	97	2	750	Nb	10	-	-	-	-	981.3	-9	S	5	b2q	48	92	6	1250	Nb	6	-	-	3		
Eskdalemuir ...	988.8	-7	SSW	S	0.2f	49	*	*	*	*	*	*	*	*	*	983.4	-7	S	7	0.6f	45	97	3	1250	Nb	10	-	-	-		
Valencia (Cahire'n)	991.9	-10	SSW	6	0.2f	49	75	4	750	St.	10	-	-	-	-	985.5	-3	SW	7	C	49	65	7	3000	Cu	7	-	-	-		
Baldonnel ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	983.6	-9	SSW	6	C	47	75	6	1250	St.	8	-	-	-		
Manchester (Ald. R.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	990.0	-11	SSW	6	0.6f	85	5	1250	St.C.	8	A.S.	1	4			
Ross on Wye ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	993.6	-7	S	6	0.6f	47	92	6	1250	Nb	10	-	-	-		
Falmouth ...	1002.2	-8	SSW	7	0.6f	49	95	8	5	-	Nb	10	-	-	-	995.7	-6	SW	4	0	50	97	7	-	St.C.	9	-	-	-		
Calshot (Hants) ...	1007.5	-5	SSW	5	0	45	85	8	2,000	St.	10	-	-	-	-	1000.3	-7	S	6	0.1f	45	92	6	2,000	St.C.	10	-	-	4		
Lympne (Folkestone)	1009.3	-4	SSW	5	0.2f	41	97	4	750	St.	10	-	-	-	-	1003.4	-7	SSW	5	0.6f	39	92	4	750	St.	10	-	-	-		
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	980.9	-7	SSW	4	0.2f	47	85	4	1250	Nb	10	-	-	4	
Howden ...	999.6	-4	SSW	4	0.1f	43	97	3	1,250	St.	10	-	-	-	-	992.5	-6	SSW	6	0.1f	45	92	6	1250	St.	10	-	-	-		
Cranwell (Lines) ...	1002.2	-3	SW	6	C	45	92	6	2,000	St.	8	-	-	-	-	995.5	-7	S	6	0	43	92	6	2,000	St.	12	-	-	-		
Felixstowe ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.1	-6	S	5	0	41	92	7	2,000	St.C.	10	-	-	-	
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1001.9	-6	SSW	6	0	41	85	7	3,000	St.C.	9	-	-	-	
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	997.1	-9	S	6	0	42	92	5	-	St.	10	-	-	-	
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	999.9	-9	S	6	0.2f	41	97	4	750	St.	10	-	-	-	
London (M.O. at 1m.)	1006.7	-3	SSW	S	0.2f	44	85	5	1,250	St.	10	-	-	-	-	1000.1	-8	SSW	5	0.6f	44	85	7	750	Nb	7	Ask	3	-		
Croydon ...	1008.4	-4	SSW	S	0.2f	44	85	5	1,250	St.	10	-	-	-	-	1002.0	-8	SSW	5	0.2f	43	92	4	750	St.	10	-	-	-		
Lerwick ...	989.2	45	S	6	0.2f	919.9	-6	47	+2	SW	6	-	omq	4	2	47	42	0	omq	48	92	6	1250	Nb	6	-	-	3			
Stornoway ...	986.4	45	SSW	3	C	922.6	-8	47	+4	S	6	-	adg	5	22	48	42	0rq	48	92	0	0	adg	48	0	0					

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 21.12.1920.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, misty, local drizzle.	Indiff.	R.Rough
2. E. England	Cloudy or dull.	Good	Mod.
3. E. Midlands	Dull, local showers.	Fair	-
4. W. Midlands	Dull, squally, local rain.	"	-
5. S.W. England	Dull, local squalls.	"	Rough
6. South Wales	Cloudy or dull.	Good	R.Rough
7. North Wales	Cloudy or dull, squally.	"	"
8. N.W. England	Dull, squally, local mist.	Indiff.	Mod.
9. N. Midlands	Dull.	"	-
10. N.E. England	Dull, mist or squalls.	"	Mod.
11. E. Scotland	Fair to dull.	Poor	"
12. S.W. Scotland	Fair to dull, squally, local.	"	"
13. Isle of Man	Fair to dull, squally. (rain)	Fair	"
14. N. & N.W. Scotland	Fair to dull, showery, misty.	Poor	"
15. Hebrides	Dull, showery, squally.	Indiff.	R.Rough
16. Orkneys and Shetlands	Dull, misty, slight rain.	Poor	Mod.
17. N.W. Ireland	Dull, squally, slight shower.	Indiff.	High
18. N.E. Ireland	Fine to dull.	Good	Mod.
19. S.E. Ireland	Cloudy or dull, squally.	Fair	R.Rough
20. S.W. Ireland	Fine to cloudy.	Good	Rough.

GENERAL INFERENCE from observations received up to 9h.

A very deep depression off N.W. Ireland will cause strong winds or gales from between S.W. and W. over the British Isles veering to N.W. later over the Northern Districts and there will be much low cloud and intermittent rain in all districts.



Barometric change from 4 h. to 7 h. (half millibars)

EXPLANATION.

BAROMETER.—Isobars are drawn at intervals of two millibars.

WIND.—Direction is shown flying with the wind. Force, on my series 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour; by figures in small circles in miles per hour.

TEMPERATURE.—Is given in degrees K.

WEATHER SYMBOLS.

- clear sky.
- sky ½ clouded.
- sky ¾ clouded.
- overcast sky.
- * snow.
- sleet.
- rain falling.
- ≡ fog.
- ≡ mist.
- T thunder.
- thunderstorm.

SEA STATE INDICATOR.—

- Rough.
- High.

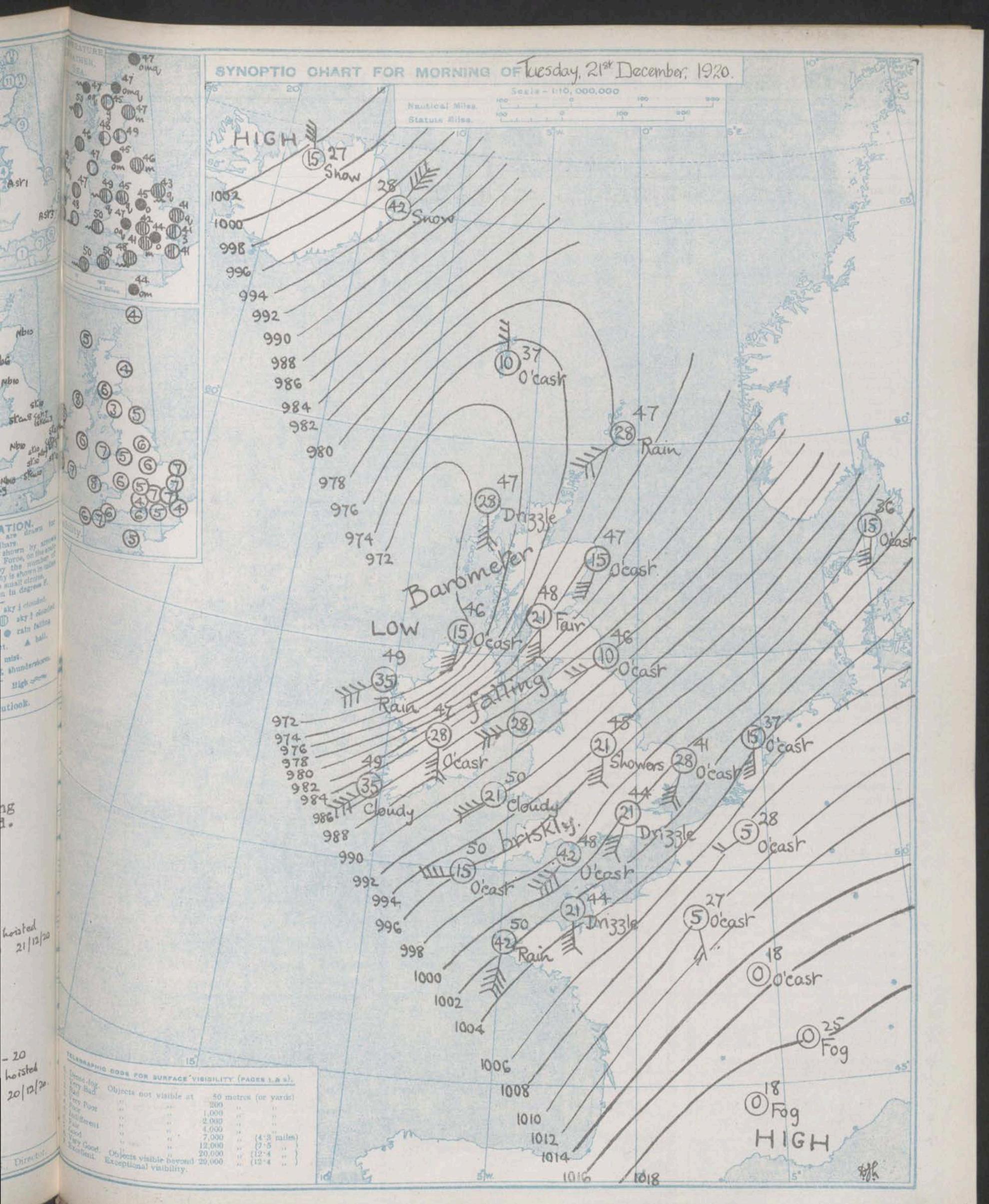
Further Outlook.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M. Tuesday, 21st December, 1920.
1. S.E. England	
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	
	Wind S.W. to W., strong to a gale; much low cloud, intermittent rain, visibility fair to good; rather mild than somewhat colder temporarily.
	Wind Westerly, strong to a gale, veering temporarily to N.W. later; much low cloud, intermittent rain, visibility fair to good; becoming temporarily colder.
	Wind veering to N.W., strong to a gale; much low cloud; showers of rain, hail or sleet; visibility good; colder.
	As for 7 - 13.

Continuing
Unsettled.

✓ Districts 1-10
South Cone hoisted
02.40 21/12/20

↓ Districts 11 - 20
South Cone hoisted
morning 20/12/20.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 356.

Tuesday
2nd Decth 1920

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 20 th																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h	Day 19h-20h	Sunrise to Sunset	20 th			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 17h-18h	Day 18h-19h	Sunrise to Sunset	20 th
Scotland.	Oban	or	or	50	33	8	2	9.0		England, N.W.	Douglas (I.O.M.)								
	Banff	dr. cbc	bccod	41	26	-	0.4	1.5			Blackpool	or	43	32	-	+	0.0	0.0	
	Montrose										Southport	op	42	31	-	1			
	St. Andrews	*	x	43	34	-	-	0.2			Morecambe								
England, E. N.E.	Harrogate	o	opr	39	32	-	0.2	0.0		Midlands.	Buxton	b	40	36	-		2.3		
	Scarborough	o	o	39	35	-	-	0.0			Leamington Spa	o							
	Skegness	odo	co	43	34	-	-	0.0			Malvern								
	Lowestoft										Bath	o	46	34	-	0.3	0.0		
England, E. S.E.	Felixstowe	omd	cm	39	36	2	-	0.0			Rhyl	oc	48	39	-		0.0		
	Southend-on-Sea	moec	bcb	40	35	1	-	0.0			Colwyn Bay	x	48	32	-		0.0		
	Tunbridge Wells	ome	bcc	42	34	0.3	-	1.7			Llandudno	*	51	30	-	0.2	0.0		
	Margate	ofc	c	41	36	0.1	-	0.5			Aberystwyth	oco	47	36	-	1	0.0		
	Ramsgate	*	*	39	34	-	-	0.9			Tenby								
	Folkestone	o	o	42	35	-	-	0.0			Swansea								
	Hastings	ome	oco	45	36	1	-	0.0			Weymouth	efoc	48	35	-	-	0.1		
	Eastbourne	omo	eo	45	36	1	-	0.5			Teignmouth								
	Brighton	obc	bca	45	37	0.4	-	2.4			Torquay	fobc	47	33	-		1.0		
	Worthing	obab	o	43	37	-	-	2.6			Paignton	fb	47	29	-	trace	0.9		
	Littlehampton	of	bc	44	36	-	-	2.2			Penzance	obco	51	36	-	2	1.0		
	Portsmouth (S'thess)	*	x	45	36	0.1	-	1.7			Newquay	e	48	31	0.2	-	0.1		
	Bournemouth	*	*	46	35	1	-	1.5			Bude	o	50	32	-	-	0.0		
											Ilfracombe	o	48	36	-	-	0.1		
											Weston-s-Mare	co	46	35	-	-	0.0		

STATIONS.		SUMMARIES FOR PAST 24 HOURS.								BEAUFORT NOTATION.							
		WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	RAINFALL. †	Sun. Hours.	THE BEAUFORT SCALE OF WIND FORCE.						
7h-18h 20 th	18h-19h 20 th	18h-19h 20 th -1h 21 st	1h-7h 21 st	Day. 7h-18h	Night. 18h-7h	mm.	mm.	mm.	No.	Limits of Velocity at about 30 feet above ground.	Statute miles per hour.	Metres per second.					
Renfrew	obfrcod	oifp	o.0	c.0	49	38	44	9	0.0	b	blue sky (not more than a quarter covered).						
Eskdalemuir	dd	dd, rr	rr	rr	45	31	42	7	0.0	bc	sky partly cloudy (one half covered).						
Valencia (Cabiro's)	r, oif	bdoif	oprr	rr, co	52	48	45	1	0.0	c	generally cloudy (three quarters covered).						
Baldonnel	rqdifo	qpdifo	albq, w	rg	49	43	41	0.2	1	d	drizzle, or fine rain.						
Manchester (Ack. Pk.)	ofc	ofc	er, 03/55	03f, r, q	47	33	38	0.1	Trace	e	wet air without rain falling.						
Ross on Wye	co24, 0if	0,0if	hd, oq	rg, oq	47	33	41	-	1	f	fog.						
Falmouth	bbccoo	o	rr, oq	rr, o	51	34	45	3	0.1	g	gloom.						
Caishot (Hants)	co24	02f, oif	r, e, o	oif	47	34	40	-	1.6	h	hail.						
Lympne (Folkestone)	oef, oco	o2f, obcd	o2f	o2f, q	42	34	36	0.2	-	i	lightning.						
Aberdeen	2f, oif	2f, g	o2f	o2f, b	47	36	35	-	0.1	m	mist.						
Howden	oif, o2f	p, p	p, oif	o2f, q	46	34	32	-	-	n	overcast sky.						
Cranwell (Lincs)	obccoo	bd, o	bd, o	bd, o, bc	46	33	40	0.4	-	o	passing showers.						
Felixstowe	o24, o	o2f, o3f	3/2, 2/2	2/2, q	42	36	47	-	-	q	squalls.						
Shoeburyness	o3f, 3f	o3f, 3f	2/2, q	9, 0	41	33	30	0.1	-	r	rain.						
Benson	becc, eo	o	o	o, pd	45	34	38	-	0.2	rs	sleet, i.e., rain and snow together.						
S. Farnborough	oif, obco	obcc, eo	oif, obd	oif, hd,	45	34	35	-	1.5	s	snow.						
London (Kew Obsy.)	pd, osif	becc, ee	oif, pd,	oif, u	45	36	36	-	0.1	t	thunder.						
Croydon	oif, 2/2	bd, 2/2	oif, dd, oif, q	oif, q	44	35	35	*	Trace	u	ugly, threatening sky.						

LONDON OBSERVATIONS.	WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.	Sunshine to Sunset Hours.	Humidity %	Vertical Component of Solar Radiation per Square Centimetre during yesterday.		TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.		
	Morning.	Afternoon.							15 h. G.M.T.	9 h. G.M.T.	15 h. G.M.T.	9 h. G.M.T.	15 h. G.M.T.
Greenwich (Royal Observatory)	c.o	c.o	abc, of	44	37	32	-	0.9	80	93	Yarmouth	8.4	11.4
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*	Greenwich	8.5	11.2
Westminster (St. James's Park)	*	*	*	43	37	33	1	0.2	76	81	11.8	11.8	11.8
Regents Pk (Botanic Gds)	*	*	*	*	*	*	*	0.2	*	*	Milliwatts.	8.4	11.9
Camden Sq. (British Rainfall)	o.c.	bc, c	*	50	37	32	-	*	78	91	Average Rate.	4.2	3.1
Kensington Palace	o.c.	o.c.	*	45	36	37	0.4	*	90 (18h)	92	Maximum Rate.	12	1.2
Hampstead Observatory	*	*	*	*	*	*	*	1.3	*	*	Valencia	8.49	11.49

Photographic Record of Pale Star (Polaris) and of 8 Ursae Minoris at Greenwich Observatory.			
Exposure from 17 h. 0 m. to 7 h. 0 m.			
Duration of Exposure.			
Stars.	Duration of Exposure.	Duration of Record.	
Polaris	1.4	2	15
δ Ursae Minoris	6.4	1	11

NOTES ON THE WEATHER OF YESTERDAY.

The maximum temperature was for the most part between 40° and 50°, and reached 52° at Scilly. Rain fell nearly everywhere; although in many places the amount was not very large, at Stornoway the total was 22mm and at Eskdale 18mm. Sunshine records were poor, only a very few places experiencing even an hour or two.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B21,580 WEDNESDAY, 22nd DECEMBER, 1920.

STATIONS.	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 9H, 12H, 15H AND 18H.																						
	BAROM. at M.S.L. mb.	Wind. Dir. Force 0-12.	Temp. °F.	Humidity. % C.	Visi- bility Feet.	Height of Low Cloud, Feet.	Low Cloud.			Upper Cloud.			BAROM. at M.S.L. mb.	Wind. Dir. Force 0-12.	Temp. °F.	Humidity. % C.	Visi- bility Feet.	Height of Low Cloud, Feet.	Upper Cloud.			Sea	
							Form.	Amt.	Form.	Amt.	Form.	Amt.											
18H. G.M.T. 21 st																							
Renfrew ...	973.2	-7	SSW	5	0rq	47	25	5	1200	Nb	7	ASR	3	974.1	+1	SSW	7	od	45	25	5	1200	
Eskdalemuir ...	977.6	-6	SW	8	0f	43	25	6	2000	Nb	10	-	-	977.5	0	SSW	6	o	42	25	6	-	
Valencia (Cahircin)	985.4	-2	WSW	6	c	49	25	3	3000	ScCu	8	-	-	986.9	+3	WNW	6	0f	46	25	7	1250	
Baldonnel ...	982.4	-1	SSW	5	eq	47	25	7	1200	ScCu	7	-	-	980.5	-1	SSW	6	oq	43	25	6	2000	
Manchester (Altrincham)	987.2	-4	SSW	5	o	49	25	5	2000	ScCu	2	ASR	7	985.5	-1	SSW	4	bqf	44	25	4	2000	
Ross on Wye ...	980.8	-2	WSW	4	ow	49	25	7	1200	Nb	7	ASR	2	989.4	-2	w	6	bq	44	25	8	3000	
Falmouth ...	984.5	-4	WSW	6	b	51	25	8	-	ScCu	2	-	-	992.5	-3	WSW	6	bqf	46	25	6	-	
Calshot (Hants) ...	984.4	-5	SSW	5	or2f	46	27	4	700	Nb	10	-	-	993.7	-1	SW	4	b	46	25	8	-	
Lympne (Folkestone)	987.3	-8	SSW	7	or2fq	43	27	3	750	Nb	10	-	-	994.5	-2	SSW	7	0rq	44	27	4	1500	
Aberdeen ...	974.4	-8	S	5	cq4f	48	25	6	1200	St	8	-	-	971.2	-1	SSW	5	bqf	45	25	7	1250	
Howden ...	987.3	-6	SSW	3	0qm	47	27	5	1200	St	10	-	-	985.1	-2	SSW	4	bq	44	25	5	2000	
Cranwell (Lines) ...	989.8	-5	SSW	4	o	48	22	7	2000	St	10	-	-	988.1	-2	SSW	5	b	44	25	5	-	
Felixstowe ...	997.1	-8	S	5	or2f	43	27	4	750	St	10	-	-	994.8	0	5	4	02f	43	27	4	750	
Shoeburyness ...	995.3	-8	SSW	6	0q	45	25	7	2000	Cu	7	ASR	3	993.0	-3	SW	2	02f	45	25	5	3000	
Benson ...	991.7	-3	SSW	4	o	46	22	6	-	St	10	-	-	991.2	0	SW	3	b	43	22	7	-	
S. Farnborough	989.0	-7	SSW	6	or2f	46	27	4	<500	Nb	10	-	-	992.7	-2	SSW	4	b	44	25	6	3000	
London (Kew Observatory)	983.6	-9	SSW	4	or2f	47	22	4	750	Nb	7	ASR	3	992.7	0	5	3	b2f	46	22	5	-	
Croydon ...	994.6	-7	SSW	6	or2fq	46	22	5	<500	Nb	10	-	-	992.9	-1	5	5	b2fq	45	22	6	2000	
1H. G.M.T. OF 22 nd																							
Renfrew ...	977.5	+2	W	4	0f	40	85	6	-	Nb	10	-	-	980.4	+5	SW	4	bc	40	85	6	3,000	
Eskdalemuir ...	982.8	+6	1NW	6	omq	45	85	7	1,250	St	3	ASR	3	981.4	+2	SW	5	0f	37	92	6	2,000	
Valencia (Cahircin)	986.2	+5	SW	4	0mqf	39	85	7	1,250	St	3	ASR	1	998.0	+3	WNW	5	b	45	75	8	3,000	
Baldonnel ...	982.9	+2	W	4	c	44	92	7	-	Nb	7	-	-	989.9	+4	SSW	5	cq	38	92	6	1,250	
Manchester (Altrincham)	*	*	*	*	*	*	*	*	*	*	*	*	*	987.5	+4	SSW	4	c2f	39	25	4	3,000	
Ross on Wye ...	*	*	*	*	*	*	*	*	*	*	*	*	*	992.9	+4	W	4	b2f	39	75	9	4,200	
Falmouth ...	992.9	+2	W	4	c	44	92	7	-	Nb	7	-	-	993.8	+6	W	6	b	43	75	7	-	
Calshot (Hants) ...	992.1	-1	SSW	5	bc	45	85	8	2,000	ScCu	4	-	-	994.9	+7	SW	4	b	40	92	8	3,000	
Lympne (Folkestone)	983.2	-1	SSW	6	0mqf	42	97	5	<500	Nb	10	-	-	994.3	0	WSW	3	02f	41	92	5	750	
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	974.7	+1	SSW	2	b2fq	37	85	5	-	
Howden ...	985.5	-2	SSW	4	bcmqf	40	92	5	3,000	St	3	ASR	2	985.5	+3	WSW	4	b2fq	39	92	5	2,000	
Cranwell (Lines) ...	986.3	-2	SSW	5	c	40	85	6	4,200	St	5	ASR	2	989.0	+4	WSW	4	b	39	85	5	1,250	
Felixstowe ...	992.8	-2	S	4	b	42	92	7	-	O.Cu	1	-	-	993.1	+2	SSW	3	c2f	42	85	7	3,000	
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	992.7	+3	WSW	1	bc	41	85	7	3,000	
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	992.5	+5	SW	4	b	28	92	8	-	
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	991.1	+4	WSW	2	b	38	92	7	-	
London (M.O. at 1m)	990.8	-1	S	5	b1fq	42	85	6	-	-	ASR	1	-	-	995.6	+6	SW	3	b	41	85	7	3,000
Croydon ...	992.0	-1	S	5	b1fq	42	85	6	-	-	ASR	1	-	-	994.1	+3	WSW	4	b1fq	40	85	6	-
STATIONS CONTRIBUTING REPORTS AT 9H AND 18H.																							
STATIONS.	BAROM. at M.S.L. mb.	TEMP. °F.	Wind. Dir. Force 0-12.	Weather	BAROMETER. at M.S.L. mb.	Temp. Change in 8 hours.	Temp. °F.	Change in 24 hours.	Wind. Dir. Force 0-12.	Dir. of Upper Cloud.	Weather	Sea	Rainfall mm.	TEMP. Max. °F.	Min. °F.	Morn. Morning	Afternoon	Night.	Sunshine Hours.				
18H. G.M.T. OF 21 st																							
Lerwick ...	969.2	48	S	5	0mrq	972.9	+4	42	-5	H	6	-	-	omrq	5	10	48	41	0q	omrq	omrq		
Stornoway ...	965.1	43	SSW	3	op	982.3	+10	37	-10	WMM	6	-	-	bcRq	5	18	47	36	od	op	op		
Castlebay (Barra)	970.6	46	WWN	5	op	986.1	+9	40	-10	H	4	-	-	op	4	4	50	39	cop	op	op		
Malin Head ...	971.5	44	SW	4	or	985.4	+5	43	-3	W	4	-	-	0pq	4	6	47	40	eqp	op	op		
Blacksod Point ...	979.1	42	NW	4	or2f	990.7	+6	44	-5	NW	3	-	-	bc	3	7	51	41	omp	cp	cp		
Roche's Point ...	986.3	44	WSW	3	o	996.7	+4	40	-8	NW	3	-	-	b	2	2	49	39	cp bc	cp	cp		
Birr Castle ...	980.4	44	S	4	r	991.7	*	38	-9	SW	2	-	-	b	4	4	47	37	cop	or b	or b		
Donaghadee ...	978.1	44	SW	4	bcm																		

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 22.12.1920.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair or fine.	Good	Slight
2. E. England	Fine to cloudy, slight drizzle at Felixstowe	"	"
3. E. Midlands	Fine	-	
4. W. Midlands	Fine to cloudy.	"	-
5. S.W. England	Fine to cloudy.	"	High
6. South Wales	Fair generally; squally	V. Good	R. Rough
7. North Wales	Cloudy or dull, squally.	Good	"
8. N.W. England	Cloudy or dull, mist or squalls	Indiff.	"
9. N. Midlands	Fine to cloudy	-	
10. N.E. England	Fair generally, mist or showers.	"	Mod.
11. E. Scotland	Fine to dull, showers in North.	"	Slight
12. S.W. Scotland	Fine to dull.	Fair	"
13. Isle of Man	Fair to dull.	"	Mod.
14. N. & N.W. Scotland	Fair to dull, showers and squalls.	Indiff.	"
15. Hebrides	Fair to dull, rain or hail showers.	Fair	R. Rough.
16. Orkneys and Shetlands	Dull, rainy, squally, misty.	Poor	"
17. N.W. Ireland	Fair generally.	Good	Slight
18. N.E. Ireland	Fair to dull, showers and squalls.	Fair	Mod.
19. S.E. Ireland	Fine to cloudy.	"	R. Rough
20. S.W. Ireland	Fine.	Good	Mod.

Temperature reported from Coastal and Cross Channel Steamers

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
7	21 st	0400	49	46
41	21 st	0430	46	48
12	21 st	?	51	46
5	21 st	0830	50	49
3	21 st	1005	50	50
1	21 st	1310	52	52
6	21 st	1600	49	45



Barometric change from 4 h. to 7 h. (half millibars).

GENERAL INFERENCE from observations received up to 9h. G.M.T.

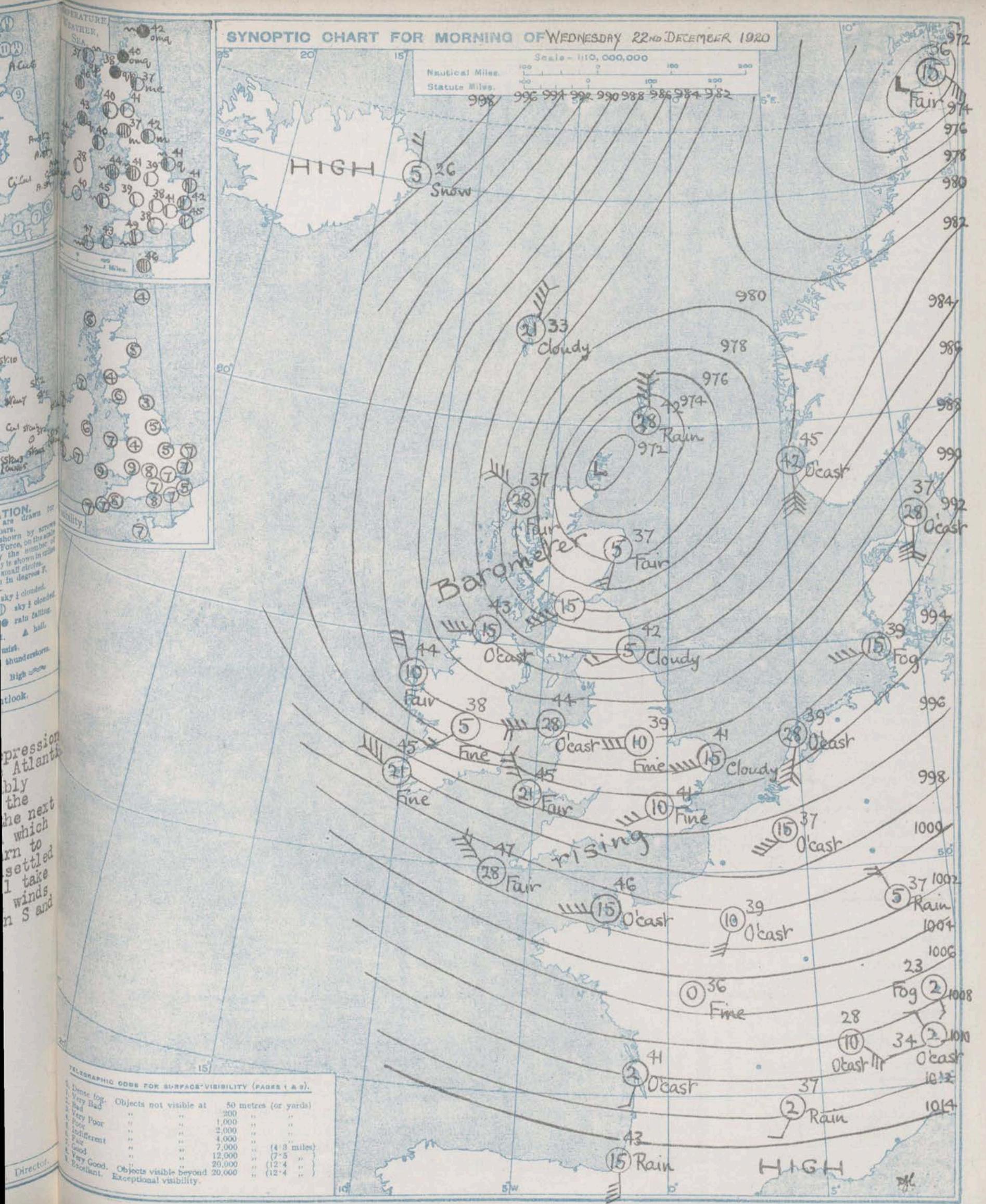
The deep depression off NE. Scotland will move away Eastwards and over the British Isles fresh to strong West to North-west winds are probable with temporarily fair and rather cold weather and slight frost at night.

EXPLANATION.
 BAROMETER.—Isobars are drawn in intervals of two millibars.
 WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
 TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.
 ☀ clear sky. ☁ sky + clouded. ☁ overcast sky. ☂ rain falling.
 * snow. ☃ sleet. ☛ mist. ☚ thunder.
 ☛ fog. ☚ thunderstorm.
SEA DISTURBANCE.—Rough ~~~ High ~~~

Further Outlook.

Another depression out in the Atlantic will probably advance in the course of the next few days, in which case a return to mild and unsettled weather will take place, with winds from between S and W.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Wednesday, 22nd December, 1920.
1. S.E. England	Fresh to strong Westerly wind, moderating; mainly fair to fine; visibility good; rather cold temporarily with slight frost at night.
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	Fresh to strong wind from between W and NW, moderating; mainly fair to fine; visibility good; rather cold.
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	Fresh to strong wind from between W and NW, moderating; variable sky, some rain or sleet showers at first; visibility good; rather cold temporarily, with slight frost at night.
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	Same as 5 - 8
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	Wind strong to a gale from NW or N, moderating; variable sky, showers of hail or sleet at first; visibility good; cold temporarily, with slight frost inland at night.
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	Same as 5 - 8.





AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No.B.21,581

Thursday, 23rd DECEMBER, 1920.

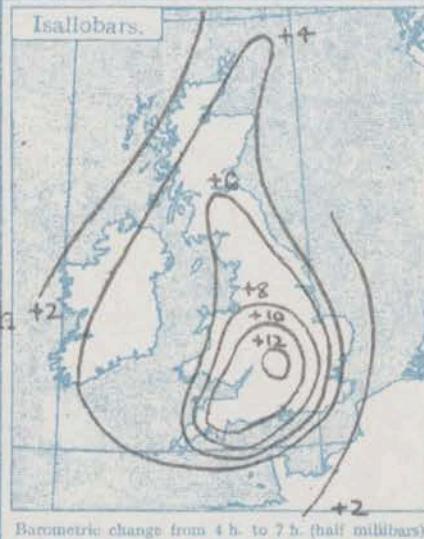
STATIONS.	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H., 7H., 13H. AND 18H.																											
	BAROM. at M.S.L. mb.	Change in 3 hours.	WIND. Dir. Force 0-12.	Temp. °F.	Humid. % 0-90.	Visibil. 0-9.	Height of Low Cloud, Feet.	Low Cloud.			Upper Cloud.			BAROM. at M.S.L. mb.	Change in 3 hours.	WIND. Dir. Force 0-12.	Temp. °F.	Humid. % 0-90.	Visibil. 0-9.	Height of Low Cloud, Feet.	Low Cloud.			Upper Cloud.				
								Form.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.	Form.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.											
Renfrew ...	9879	+6	W	5	b	42	75	8	3,000	Cu	3	-	-	9922	+5	NNW	1	b	36	85	7	-	-	-	ASR	2	*	
Eskdalemuir ...	9869	+5	NNW	6	b	39	75	7	3,000	Cu	2	-	-	9919	+4	-	0	b	34	85	7	-	-	-	AGN	1		
Valencia (Cahirc'n)	9959	-5	-	0	o	44	85	8	3,000	Cu	2	0.5	3	9901	-7	E	3	or	40	85	6	2,000	Sh	4	ASR	6	4	
Baldonnel ...	9948	+2	SW	5	bclif	42	75	6	2,500	Cu	2	0.5	3	9948	-1	SW	2	0.5	38	85	5	-	-	-	ASR	10		
Manchester (Glovers Park)	9907	+4	W	5	orgm	48	85	4	750	Mb	10	-	-	9944	+2	W	4	o (U)	39	85	3	3,000	CnN	4	AGN	5	2	
Ross on Wye ...	9949	+1	W	S	orgay	44	75	8	3,000	Cu	7	-	-	9969	+2	SW	2	o	40	85	8	-	-	-	ASR	9		
Falmouth ...	10009	0	W	4	c	47	75	8	-	Cu	1	0.5	7	9966	-7	SW	3	or	45	92	6	-	Nb	10	-			
Calshot (Hants) ...	9981	+2	SW	5	b	47	65	18	2,000	Cu	1	-	-	9997	+1	SW	3	c	42	85	7	-	-	-	ASR	87	2	
Lympne (Folkestone)	9956	0	WSW	S	bcl	43	85	8	3,000	Cu	4	-	-	9993	+3	WSW	6	b	39	85	7	-	-	-	ASR	4		
Aberdeen ...	9832	+10	NW	5	c	46	85	8	3,000	Cu	7	-	-	9908	+8	NNW	4	b	35	75	9	-	-	-	-	4		
Howden ...	9878	+1	SW	4	0.5f	42	92	4	1250	St	9	-	-	9931	+6	W	3	bc	38	92	5	2,000	Ca	6	→	7	*	
Cranwell (Lincs) ...	9907	+2	WSW	5	c	42	85	6	3,000	Cu	7	-	-	9951	+4	NNW	4	c	38	92	5	5,000	StCa	2	AGN	2	4	
Felixstowe ...	9955	0	SW	4	bclif	43	85	4	-	-	-	-	-	9987	+5	WSW	3	bclif	42	95	6	4,000	StCu	6	-	-		
Shoeburyness ...	9949	0	W	4	b	45	65	7	-	-	-	-	-	9979	+3	WSW	3	bcl	42	75	7	4,000	Cu	5	-	-		
Benson ...	9946	+1	WSW	4	bcl	46	65	8	-	Cu	5	-	-	9963	+2	WSW	3	b	38	85	7	-	-	-	Ca	2		
S. Farnborough	9963	0	WSW	4	bcl	45	75	7	2,000	Cu	6	-	-	9991	+2	W	3	b	39	85	7	-	-	-	ASR	3		
London (Kew Observatory)	9957	0	SW	4	bclifay	45	75	5	5,700	Cu	2	0.5	1	9985	+3	SW	2	bclif	41	85	6	-	-	-	AGN	4		
Croydon ...	9965	+2	W	S	bclifay	45	75	6	4,200	StCu	6	-	-	9995	+3	WSW	4	bclif	41	85	6	-	-	-	ASR	4		
Renfrew ...	9912	+5	NE	1	bcl	28	85	7	-	-	-	-	-	1002-S	+6	WSW	1	bclfr	24	97	3	-	-	-	-	2		
Eskdalemuir ...	9946	+6	SSW	4	bcl	39	*	*	*	*	*	*	*	1002-S	+6	o	bx.	21	85	7	-	-	-	-	2			
Valencia (Cahirc'n)	9955	+2	E	1	0.5f	34	97	3	-500	StCu	10	-	-	1002-I	+4	o	bx.	32	92	8	-	-	-	-	2			
Baldonnel ...	9955	0	*	*	*	*	*	*	*	*	*	*	*	1002-O	+5	o	BCR.	29	85	S	3,000	StCu	10	-	-			
Manchester (Glovers Park)	9922	+4	W	7	orgay	46	85	7	-	Mb	7	-	-	1002-H	+7	H	1	bclfr	30	97	3	-	-	-	-	2		
Ross on Wye ...	9922	+4	E	6	0.5f-2.5f	43	97	5	1,750	Mb	10	-	-	9992	+11	N	1	bclfr	39	97	7	-	500	St	9	-	-	
Falmouth ...	9909	-8	E	6	0.5f-2.5f	42	97	5	750	Mb	10	-	-	9976	+10	M	4	0.5f	40	85	6	1,250	StCu	10	-	-	3	
Calshot (Hants) ...	9958	-5	*	*	*	*	*	*	*	*	*	*	*	9949	+1	MHE	6	0.5f	40	97	4	1,500	Mb	10	-	-		
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	10009	+7	WSW	1	bclfr	30	75	6	-	-	-	-	2		
Howden ...	9956	+2	-	0	bcl	28	97	2	3,000	StCu	2	0.5	4	10004	+6	o	cmx	29	97	H	3,000	SL	4	ASR	2	*		
Cranwell (Lincs) ...	9996	0	W	3	c	26	92	5	2,000	St	3	0.5	6	10002	+7	H	3	bclfr	30	97	S	-	-	-	ASR	1		
Felixstowe ...	9978	-1	-	0	b	7	97	4	-	-	-	-	-	9977	+2	M	3	0.5f-2.5f	39	97	4	750	StCu	10	-	-	2	
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	9960	+2	ME	3	0.5f	40	92	7	1,250	StCu	9	-	-		
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	9979	+11	MHE	3	o	36	97	5	1,250	StCu	10	-	-		
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	9987	+12	ME	3	cm	38	92	5	1,250	StCu	10	-	-		
London (M.O. at 1H.)	9957	-3	SE	2	0.5f	40	97	4	-500	St	10	-	-	9968	+8	MHE	4	0.5f	39	97	4	1,500	Mb	10	-	-		
Croydon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	9966	+6	ME	4	0.5f	39	97	4	1,500	Mb	10	-	-		
STATIONS CONTRIBUTING REPORTS AT 1H. AND 13H.																												
STATIONS.	BAROM. at M.S.L. mb.	TEMP. °F.	WIND. Dir. Force 0-12.	Weather.	M.S.L. mb.	Change in 3 hours.	Barometer	TEMPERATURE.	WIND.	Dir. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall mm.	TEMP.	WEATHER.	Sunshine Hours.												
Lerwick ...	9874	36	NNW	5	b	9972	+5	33	-9	W	2	-	0.5	1	2	42	31	Cq	omS.	bhsdmo	12							
Stornoway ...	9913	34	N	1	bcl	9996	+3	28	-9	M	1	-	b	2	3	37	27	0pq	obc	b	07							
Castlebay (Barra) ...	9932	38	NNE	2	b	10002	+3	42	+2	S	4	-	bcl	3	1	42	37	hbchp	bchpb	b	18							
Malin Head ...	9924	43	N	1	c	10000	+2	35	-8	SE	1	-	b	2	1	47	35	cap	cap	b	05							
Blacksod Point	9930	40	-	0	bcl	9989	+5	40	-4	SW	2	-	bcl	3	1	50	39	bc	bcl	b	*							
Roche's Point ...	9934	44	SE	3	r	10																						

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 23.12.1920.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Overcast, misty, rain locally.	Indiff.	Slight
2. E. England	Cloudy to overcast.	"	"
3. E. Midlands	Fine, frosty.	"	-
4. W. Midlands	Fine, misty or hazy.	Bad	-
5. S.W. England	Fine.	V. Good	Rough
6. South Wales	Fine.	"	Slight
7. North Wales	Fine, misty in places.	Indiff.	Smooth
8. N.W. England	Fair, misty in places.	"	"
9. N. Midlands	Fine, hazy.	"	-
10. N.E. England	Fair to cloudy, some mist.	Fair	Smooth
11. E. Scotland	Fine to fair, some haze.	"	"
12. S.W. Scotland	Fair, fog locally.	V. Poor	Slight
13. Isle of Man	Fine, some mist.	Fair	Smooth
14. N. & N.W. Scotland	Fair.	"	Slight
15. Hebrides	Fine to fair.	Good	"
16. Orkneys and Shetlands	Overcast, snow falling.	V. Poor	V. Smooth
17. N.W. Ireland	Fair.	Good	Slight
18. N.E. Ireland	Fine, some mist.	Fair	"
19. S.E. Ireland	Fine to fair.	Good	Smooth
20. S.W. Ireland	Fine, frosty.	V. Good	"

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
7	22.12	0310	50	45
4a.	22.12	0400	45	44
5	22.12	0830	50	46
3	22.12	1020	50	42

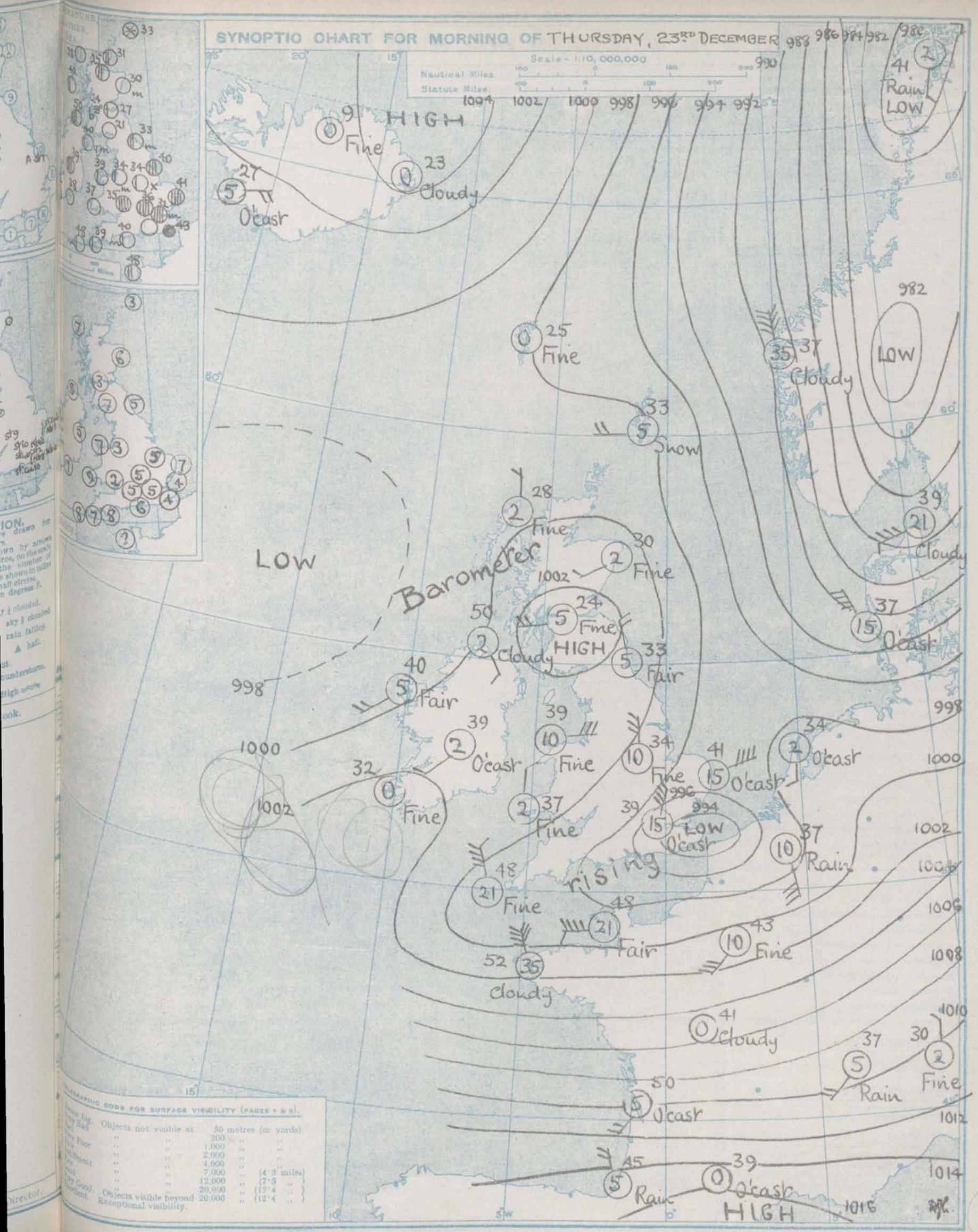


GENERAL INFERENCE from observations received up to 9h.

An anticyclone that is forming over the British Isles will cause the weather to become temporarily fine and cold in all districts with light breezes, but in the course of the next few days a return to mild and unsettled weather is probable.

EXPLANATION.
 BAROMETER.—Isobars are drawn for intervals of two millibars.
 WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
 TEMPERATURE is given in degrees F.
 WEATHER SYMBOLS—
 ☀ clear sky. ☁ sky 1 clouded.
 ☁ sky 2 clouded. ☁ sky 3 clouded.
 ☁ overcast sky. ☂ rain falling.
 * snow. ★ sleet. ▲ hail.
 ☃ fog. ☃ mist.
 T thunder. R thunderstorm.
 SEA DISTURBANCE—
 Rough ~~~ High ~~~

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Thursday, 23rd December, 1920.	Further Outlook.
1. S.E. England		
2. E. England		
3. E. Midlands		
4. W. Midlands		
5. S.W. England		
6. South Wales		
7. North Wales	Wind light and indefinite; fine, visibility good; cold, with frost inland at night.	Mild and unsettled weather is likely to become general again in the course of the next few days.
8. N.W. England		
9. N. Midlands		
10. N.E. England		
11. E. Scotland		
12. S.W. Scotland		
13. Isle of Man		
14. N. & N.W. Scotland		
15. Hebrides		
16. Orkneys and Shetlands		
17. N.W. Ireland		
18. N.E. Ireland		
19. S.E. Ireland		
20. S.W. Ireland	Wind becoming Southerly; fine at first, less settled later, visibility good; becoming milder.	



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 358.

Thursday
23rd December

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 22nd																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-9h 21-22	Day. 9h-18h 22-23	Sunrise to Sunset 22	Sunrise to Sunset 22			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 17h-9h 21-22	Day. 9h-18h 22-23	Sunrise to Sunset 22	
Scotland.	Oban	cb	cb	46	35	5	-	2.4	2.4	Douglas (I.O.M.)	rcb	pho	45	40	3	-	1.4		
	Banff	robbc	bc	43	37	1	1	0.3	0.3	Blackpool	rc	cprhc	44	41	4	-	1.2		
	Montrose									Southport	*	*	45	41	1	-	1.7		
	St. Andrews	c	c	43	33	1	-	2.9	2.9	(Morecambe)									
England, N.E.	Harrogate	bcb	bbc	43	37	2	-	3.2	3.2	Buxton	b	od.c	44	37	1	-	2.4		
	Scarborough									Leamington Spa									
	Skegness	bo	ob	44	37	-	-	4.0	4.0	Malvern	b	bbc	48	38	1	-	5.2		
	Lowestoft									Bath	b	bbc	48	38	1	-	1.0		
England, E.	Felixstowe	bm	bcm	45	32	-	-	4.7	4.7	Rhyl	rc	cbc	45	40	3	-	0.0		
	Southend-on-Sea	bc	bc	45	33	0.3	-	5.0	5.0	Colwyn Bay	*	*	44	39	4	2	0.5		
England, S.E.	Tunbridge Wells	b	bbcb	46	38	1	-	4.7	4.7	Llandudno	rc	c	47	40	2	1	0.0		
	Margate	b	bbcc	44	40	7	-	5.5	5.5	Aberystwyth	roc	co	48	42	1	-			
	Ramsgate	*	*	45	39	1	-	5.6	5.6	Tenby									
	Folkestone	bc	bcc	47	40	6	-	?	?	Swansea									
	Hastings	bcb	bbc	47	40	12	-	5.5	5.5	Weymouth	bcb	bbc	49	42	2	-	6.6		
	Eastbourne	bc	bc	47	43	6	-	5.7	5.7	Teignmouth									
	Brighton	cbbc	bbcb	46	42	4	-	5.6	5.6	Torquay	dr.bcb	bbc	50	40	1	0.1	4.8		
	Worthing	b	b	46	40	2	-	6.0	6.0	Paignton	bc	bc	49	39	2	1	4.6		
	Littlehampton	bcb	bc	47	40	2	-	6.0	6.0	Penzance	cbc	c	50	43	6	2	2.3		
	Portsmouth (S'tham)	*	*	47	40	-	-	6.5	6.5	Newquay	bc	co	48	43	4	0.2	2.2		
	Bournemouth	*	*	47	40	1	-	6.0	6.0	Bude	p	p	48	41	6	0.4	4.1		

STATIONS.	SUMMARIES, FOR PAST 24 HOURS.										
	WEATHER.				Max. Temp. F.	Min. Temp. F.	Min. on Grass ° F.	RAINFALL. †		Sun. Hours.	
	7h-18h 22 [‡]	18h-18h 22 [‡]	18h 22 [‡] -1h 23 [‡]	1h-7h 23 [‡]				Day.	Night. 7h-18h		
Renfrew ...	b.b0. b.b0	bbcif	b.b.b3fk	b3fk	43	23	10	mm.	mm.	5.5	
Eskdalemuir ...	p. b o	b.	bc.c.bcc.c	b.b0.b	39	21	14	trace	-	5.0	
Valencia (ahirem) ...	b.bcc.co	r. rr	rr.co	bk	45	32	26	6	5	0.3	
Baldonnel ...	c.o.bccq	cozf	o2fe W	x.bbc	43	27	20	0.1	-	2.5	
Manchester (Alex Park)	c.o.o2fr	bccrh3f	o2f.	c.o.bcc.b2	45	27	17	5	-	*	
Ross on Wye ...	bccv.bccp	bccqbbcc	bcf	Tr. o2f	46	35	30	0.1	6	4.5	
Falmouth ...	b.bccp	c.o?	Tr.bbc.bh3q	p.bbc	49	39	31	1	13	2.7	
Calshot (Hants) ...	b.b. b.bcc	bcc.o? f	oif.g2fr	o2fr.oif.rR	48	39	35	-	5	6.2	
Lympne (Folkestone) ...	oaf.bccchb	bbe. b.b	b.bcc.c.oif	Tr.o2fr.oif	44	36	32	-	8	5.5	
Aberdeen ...	pr5. q	bbc b	bifz	1fzx	42	29	18	2	-	1.1	
Howden ...	pd q	bbcq	x W	bcc67ff	45	32	19	-	-	2.8	
Cranwell (Lincol) ...	b.b0.bcc	o b bcc	b.bcc.bcc.c	b.bcc.bx	44	25	22	trace	-	3.5	
Felixstowe ...	2f b	p. co	bc.c.o2f.	Tr. o2f	43	35	18	-	2	4.7	
Shoeburyness ...	b.bcc.bbc	bbc.bcc	bc.c.bcc	RR.b.d.	45	34	28	-	6	5.1	
Benson ...	b.bcc	bbc.b	c.orR	Tr. o.	47	35	30	-	5	*	
S. Farnborough ...	b.bcc.bcc.c	bcc.bbc	b.bcc.o.o	RR.oif	45	37	32	-	12	5.2	
London (Kew Obsy.) ...	2f	o2f lf	o2fr.Tr.	Tr. o2f	46	38	31	-	10	4.6	
Croydon ...	bcc.bcc.bcc	a.bcc	o.bcc.oif	oif.afr.oif.oif	45	38	18	-	8	*	

BEAUFORT NOTATION.	
b	blue sky (not more than a quarter covered).
bc	sky partly cloudy (one half covered).
c	generally cloudy (three quarters covered).
d	drizzle, or fine rain.
e	wet air without rain falling.
f	fog. g gloom.
h	hail. l lightning.
m	mist. o overcast sky.
p	passing showers.
q	squalls. r rain.
rs	sleet, i.e., rain and snow together.
s	snow. t thunder.
u	ugly, threatening sky.
v	unusual visibility.
w	dew. x hoar frost.
y	dry air; humidity less than 60 per cent.
z	dust haze; the turbid atmosphere of dry weather.

LONDON. OBSERVATIONS.	WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rain- fall, mm.	Sun- shine to Sunset, Hours	HUMIDITY %		
	Morning.	Afternoon.						15 h. G.M.T.	9 p.m. G.M.T.	
24 HOURS ENDED 9H G.M.T. 23°								YESTERDAY.	TO-DAY.	
Greenwich (Royal Observatory)	bc.	bc.	0 05-0	45	38	31	9	55	75	90
City (Bunhill Row)	*	*	*	*	*	*	*	21	*	*
Westminster (St James's Park)	*	*	02	47	40	32	9	48	71	84
Regents Park (Botanical Garden)	2	2	2	4	2	*	2	46	46	46
Camden Sq. (British Rainfall)			*	46	38	33	8	*	71	90
Kensington Palace	bc.	C.0	*	47	38	33	10	*	81 (8h)	90
Hampstead Observatory	*	*	*					*	*	

SOUTH KENSINGTON

TABLE SHOWING THE GREENWICH TIME SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.				
23 rd + 24 th December 1892.		Sunrise.	Noon.	Sunset.
Stations.		G.M.T.	G.M.T.	G.M.T.
Yarmouth...	8.5	11.52	2.37	3.40
	8.6	11.53	2.38	3.52
Greenwich	8.6	11.53	2.38	3.53
	9.7	12.0	2.18	3.19
Wick ...	9.4	12.11	2.12	3.20
	9.5	12.12	2.13	3.21
Valencia ...	8.50	12.40	2.40	3.41
	8.51	12.41	2.41	3.42

Photographic Record of

Pole Star (*Polaris*) and of δ Ursae

Minoria at Greenwich Observatory

Exposure from... 17 h. 9 m.
to... 17 h. 9 m.

Stars.	Duration of Exposure.		Duration of Record.		
	h.	m.	h.	m.	%
Polaris	h. 14.	α	h. 12.	57	19
β Ursae Minoris	14.	0	2.	15.	16

NOTES ON THE WEATHER OF YESTERDAY.

The temperature fell considerably during the night and sharp frost occurred in Scotland. The minimum temperature was as low as 21° at Eskdale, 23° at Glasgow and 24° at Nairn, while at Cranwell (Lincs.) it was 25° . Rain fell fairly heavily in the South at night, 14mm at Falmouth, and 12mm at South Farnborough. Good records of bright sunshine were obtained nearly everywhere.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON

BRITISH SECTION. No. B.21.582. FRIDAY, 24th DECEMBER, 1920.

STATIONS	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H., 7H., 18H. AND 24H.																										
	BAROM. at M.S.L. mb.	Change in 3 hours.	WIND. Dir. Force 0-12.	TEMP. °F. at M.S.L. mb.	Humid. at 0-0.	Visibil. at 0-0.	Height of Low Cloud. Feet.	Low Cloud Form.	Amt. 0-10.	Upper Cloud Form.	Amt. 0-19.	Sea 0-9.	BAROM. at M.S.L. mb.	Change in 3 hours.	WIND. Dir. Force 0-12.	TEMP. °F. at M.S.L. mb.	Humid. at 0-0.	Visibil. at 0-0.	Height of Low Cloud. Feet.	Low Cloud Form.	Amt. 0-10.	Upper Cloud Form.	Amt. 0-19.	Cloud Sea 0-9.			
Renfrew ...	10059	-2	-	0	bif	22	72	2	-	-	-	-	10070	+1	-	0	bif	25	93	2	-	-	-	C.S.E.	5	2	
Eskdalemuir ...	10067	+5	-	0	c	31	85	8	-	StCu	8	-	10087	+1	-	0	bif	24	86	4	-	-	-	-	-	-	
Valencia (Cahira'n)	10014	-2	ESE	4	o	45	72	8	2,000	SCCu	7	A.S.E.	3	5	9957	-7	SSE	6	01	47	85	6	1,250	St	10	-	
Baldonnel ...	10046	+1	ESE	3	oif	39	85	5	2,000	ScCu	9	A.S.E.	1	*	10044	-1	E	2	02f	42	85	5	1,250	ScCu	10	-	
Manchester (Alex.Mc)	10058	+4	SE	1	bif	33	85	2	-	-	-	-	10092	+3	-	0	bif	32	85	2	750	Se	10	-	-	*	
Ross on Wye ...	10069	+5	-	0	b	37	85	4	-	-	-	Ci	1	*	10100	+3	-	0	05f	32	97	1	<500	St	10	-	*
Falmouth ...	10066	+3	E	1	o	44	85	7	-	ScCu	9	-	10066	-2	SE	3	oif	47	92	6	-	-	-	-	-		
Calshot (Hants) ...	10064	+6	NNW	3	bif	43	85	6	-	-	-	-	10109	+2	NE	2	02f	37	92	4	3,000	ScCu	10	-	-		
Lympne (Folkestone)	10052	+6	NNE	5	bif	43	85	6	750	Sc	5	-	10103	+6	-	0	02f	39	97	5	2,000	ScCu	10	-	*		
Aberdeen ...	10047	+3	SW	2	bif	34	85	5	-	-	-	-	10070	+3	WSW	1	bif	29	75	4	-	-	-	-	2		
Howden ...	10060	+2	-	0	bm	38	85	5	3,000	St	1	A.S.E.	1	*	10099	+3	-	0	04x10	30	97	4	3,000	Se	4	A.S.E.	2
Cranwell (Linco)	10071	+3	NNW	3	b	36	85	4	4,200	ScCu	2	-	*	10111	+4	ENE	1	02f	32	97	4	-	-	C.E.S.E.	3	2	
Felixstowe ...	10059	+5	N	3	bif	44	85	5	4,200	ScCu	4	A.G.E.	2	3	10112	+6	N	2	bif	26	97	4	5,700	ScCu	6	-	1
Shoeburyness ...	10046	+8	NE	2	bif	43	85	7	-	-	-	A.S.E.	2	*	10103	+6	WNW	1	bif	36	85	3	3,000	ScCu	2	A.G.E.	4
Benson ...	10063	+7	N	2	oif	36	97	2	-	-	-	-	10104	+3	-	0	o	35	97	3	-	-	CE.S.E.	10	*		
S. Farnborough ...	10068	+8	NNW	2	oif	40	95	5	<500	St	10	-	*	10112	+6	E	1	02f	37	92	2	<500	Se	10	-	*	
London (Kew Observatory)	10063	+7	NNW	3	B.M.C.P.	41	85	4	<500	St	10	-	*	10113	+6	-	0	05f	37	97	1	<500	Se	10	-	*	
Groydon ...	10083	+6	NNW	2	C.f	41	97	3	1,250	Sc	7	-	*	10117	+5	1	04f	36	97	2	<500	Se	10	-	*		
Renfrew ...	10066	-3	-	0	bif	32	85	H	-	5	*	-	10085	-4	NE	4	07f	34	95	3	-	16	10	-	-		
Eskdalemuir ...	10042	+	S	4	i	43	*	*	*	*	*	*	10016	-5	SE	1	0m.f.	34	92	5	-	16	10	-	-		
Valencia (Cahira'n)	9942	+	S	4	i	44	95	5	2,000	St	10	*	*	9958	+2	5	4	*	54	92	7	1,250	Se	10	-	*	
Baldonnel ...	9970	-9	E	6	oq	44	95	5	2,000	St	10	*	*	9963	0	St	6	01q	23	85	7	1,250	Se	10	-	*	
Manchester (Clark.P.W.)	*	*	E	6	*	*	*	*	*	*	*	*	*	10016	-3	5	4	07m	43	92	4	2,000	Ne	10	-	*	
Ross on Wye ...	*	*	E	6	*	*	*	*	*	*	*	*	*	10028	-1	W	3	0	57	97	7	1,250	Ne	10	-	*	
Falmouth ...	10051	-2	SW	Y	07q	54	97	3	-	Ny	10	-	*	10051	-8	SW	6	07q	54	97	5	-	16	10	-	*	
Calshot (Hants) ...	10080	-4	ESE	5	oif	43	97	5	1,250	St	10	-	*	10067	+6	SW	5	02f	57	97	5	1,250	Se	10	-	4	
Lympne(Folkestone e)	10121	-2	SSW	3	oif	40	97	5	1,250	St	10	-	*	10048	-8	5	2	07f	45	97	6	1,250	Ne	10	-	*	
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	10029	-4	5	3	01f	39	85	6	2,000	Ne	10	-	*	
Howden ...	10090	-2	SSW	2	01f	36	97	H	<500	St	10	-	*	10039	-3	SE	5	01m	38	97	4	1,250	Ne	10	-	*	
Cranwell (Linco)	10115	0	SE	3	oif	32	75	2	4,000	St	7	A.S.E.	3	*	10046	-5	SE	6	0d	38	97	4	1,250	Ne	10	-	*
Felixstowe ...	10133	0	SSR	3	oif	10	97	5	-	-	A.S.E.	10	2	10059	-8	SE	5	0723f	41	97	5	1,250	Ne	10	-	2	
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	10063	-7	5	2	03f	42	65	2	1,250	Se	10	-	*	
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	10025	0	5	4	0	49	97	1	-	Se	10	-	*	
S. Farnborough ...	*	*	*	*	*	*	*	*	*	*	*	*	*	10052	-1	SW	4	0d.m.	51	97	7	1,250	Se	10	-	*	
London(M.O. at Im.)	*	*	*	*	*	*	*	*	*	*	*	*	*	10048	-8	SSW	2	0if	47	97	7	1,250	Se	10	-	*	
Groydon ...	10109	-2	SSW	4	07f	40	97	5	1,250	St	10	-	*	10062	-2	SSW	5	074f	48	97	6	1,250	Se	8	A.S.E.	2	
Lerwick ...	10041	34	-	0	o	10007	-2	42	79	5	3	-	1002	32	C.	05	07	07	07	07	07	07	07	07	07		
Stornoway ...	10010	-40	SSW	2	oR	9980	-2	42	14	5	1	-	1001	1	Y	42	18	C.01	07	07	07	07	07	07	07		
Castlebay(Barscels)	10021	-43	SW	3	0p	9951	-3	40	-2	ES	5	-	1005	5	5	45	58	bCp	0	0p	0p	0p	0p	0p	0p		
Malin Head ...	10022	38	S	2	o	9912	-3	41	76	5	3	-	10018	3	bc	1	41	53	bc	2	bc	bc	bc	bc	bc	bc	
Blacksod Point ...	9994	-40	SE	2	bc	9896	-3	52	42	56	2	-	10026	2	bc	2	53	33	bc	3	bc	bc	bc	bc	bc	bc	
Roche's Point ...	10012	-47	SE	4	r	9985	-1	52	74	52	4	-	10024	0	0	4	21	52	36	bc	5	bc	bc	bc	bc	bc	
Birr Castle ...	10015	-43	SE	1	r	9950	-	52	13	5	1	-	10020	0	0	7	52	29	f.o.	3	bc	bc	bc	bc	bc	bc	
Donaghadee ...	10059	-11	S	1	Cmp	9980	-2	45	75	5	3	-	10019	0	0	4	45	57	Cmp	0	Cmp	Cmp	Cmp	Cmp	Cmp	Cmp	
Liverpool(Bidston)	10081	35	SE	3	c	10004	-2	40	16	5	4	-	10024	4	E	0	40	53	bcn	1	bcn	bcn	bcn	bcn	bcn	bcn	
Holyhead ...	10060	-42	S	4	0q	9978	-3	50	18	5	4	-	10023	2	9	50	25	bzg.	0.5m	0.5m	0.5m	0.5m	0.5m	0.5m	0.5m		
Pembroke (St. Ann's Head)	10082	-44	SE	4	ov	10015	-2	52	15	5	4	-	10022	3	1	52	26	bzv.bz	0.05	0.05	0.05	0.05	0.05	0.05	0.05		
Scilly (St. Mary's)	10053	-41	S.	3	072-3f	10001	-1	53	46	5	4	-	10021	6	5	53	46	b.a.	0.5m	0.5m	0.5m	0.5m	0.5m	0.5m	0.5m		
Jersey (St. Aubin)	10101	-45	E	3	o	10104	-1	54	46	5	3	-	10020	3	2	54	44	bc-b.	bc	bc	bc	bc	bc	bc	bc		
Portland Bill ...	10089	-44	SSE	2	c	10061	-1	50	40	5	3	-	10019	6	5	50	39	bc	bc	bc	bc	bc	bc	bc			
Dungeness ...	10097	-41	N	2	bc	10069	-4	49	44	5	4	-	10018	4	4	47	35	07. bc	07								

Information for these columns not usually required.

* The barometric change is expressed to half millibar.

For code see page 3

\dagger see footnote p. 4.

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 24.12.1920.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, mist or fog, some rain. Var.	Mod.	
2. E. England	Dull, some rain & mist.	Indiff.	"
3. E. Midlands	Dull, local mist.	Fair	-
4. W. Midlands	Dull.	"	-
5. S.W. England	Dull, local slight rain & (mist.	Indiff.	Rough
6. South Wales	Dull, slight rain & (mist.	"	Mod.
7. North Wales	Dull, some mist.	Poor	Smooth
8. N.W. England	Dull, local rain & mist.	"	Mod.
9. N. Midlands	Dull, misty, local rain.	"	-
10. N.E. England	Dull, rainy.	Fair	Mod.
11. E. Scotland	Dull, slight local rain.	"	Smooth
12. S.W. Scotland	Dull, misty, rain or sleet.	V. Poor	Slight
13. Isle of Man	Dull, some mist & rain.	Poor	"
14. N. & N.W. Scotland	Fair to dull, local rain.	Fair	"
15. Hebrides	Dull, local rain.	"	Var.
16. Orkneys and Shetlands	Fine.	"	Smooth
17. N.W. Ireland	Dull, misty.	Indiff.	"
18. N.E. Ireland	Dull, rainy, misty.	"	Slight
19. S.E. Ireland	Dull, slight local rain.	Good	Mod.
20. S.W. Ireland	Dull.	Fair	"

Temperature reported from Coastal and Cross Channel Steamers

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
7	23 ⁴²	0805	49	51
11A	"	0430	44	40
5	"	0842	49	37
12	"	0548	49	40
3	"	1015	48	44
10	"	1025	48	44
6	"	1030	49	45
7	"	0512	50	50
4A	"	0445	44	40



Barometric change from 4 h. to 7 h. (half millibars)

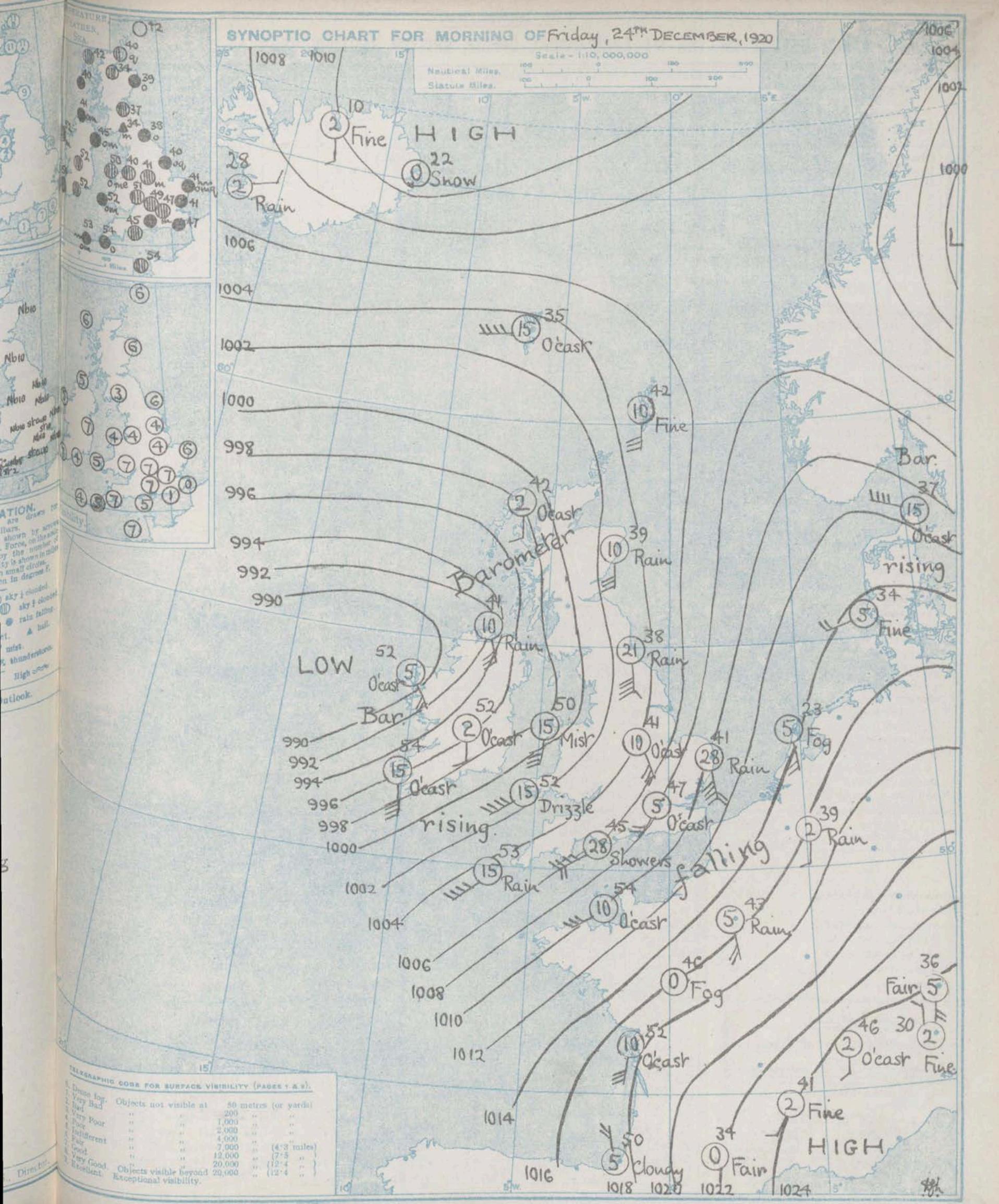
GENERAL INFERENCE from observations received up to 9h.

A depression off Western Ireland will cause much low cloud and intermittent rain over the Kingdom generally during the next day or two with fresh to strong South-West winds and mild weather.

EXPLANATION.
 BAROMETER.—Isallobars are drawn to intervals of two millibars.
 WIND.—Direction is shown by arrow flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
 TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.
 ☀ clear sky. ☁ sky 1 clouded.
 ☁ sky 2 clouded. ☁ overcast sky. ☂ rain falling.
 ✎ snow. ☃ sleet. ▲ hail.
 Ⓜ fog. Ⓜ mist.
 Ⓜ thunder. Ⓜ thunderstorm.
SEA DISTURBANCE.—Rough High

Further Outlook

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Friday, 24th December, 1920.
1. S.E. England	
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No.359.

FRIDAY
21st DECEMBER

WEATHER, TEMPERATURE RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 23 rd																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 18h-19h 22-23 rd	Day. 9h-10h 23 rd	Sunrise to Sunset 23 rd	23 rd			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 17h-18h 22-23 rd	Day. 9h-10h 23 rd	Sunrise to Sunset 23 rd	
Beds., B.	Oban	b	b	39	24	-	-	4.0		Douglas (I.O.M.)									2.1
	Banff	b	b	37	24	-	-	5.4		Blackpool	b.e.	c.o	36	27	-	-	-	-	0.0
	Montrose									Southport	x b.b.c	c.o.x	33	28	-	-	-	-	4.2
	St. Andrews ...									Morecambe ...	*	*	38	30	-	-	-	-	
England, N.E.	Harrogate	x.b.c	bwm	37	29	-	-	3.6		Buxton									0.0
	Scarborough ...	b	b	46	34	-	-	5.5		Leamington Spa ...	om	om	35	32	-	-	-	-	
	Skegness									Malvern									0.1
England, E.	Lowestoft	omw	bwm	44	33	2	-	2.5		Bath	e.b.b.m	bwm	38	34	12	-	-	-	1.9
	Felixstowe	omw	b	45	35	7	-	2.8		Rhyl	x.c.be	b.c.e	?	27	-	-	-	-	4.4
	Southend-on-Sea ...	b.c	b							Colwyn Bay ...	*	4.0	29	-	-	-	-	-	3.4
England, S.E.	Tunbridge Wells ...	om.o	c.o.om	43	37	8	-	0.2		Llandudno ...	b	b.b.c	42	27	-	-	-	-	1.5
	Margate	c	c	46	38	9	-	0.4		Aberystwyth ...	a.c.b.	c.o.b	42	32	-	-	-	-	
	Ramsgate	*	*	44	35	7	-	2.0		Tenby									
	Folkestone	x.o.c.	c	45	39	7	-	1.6		Swansea									
	Hastings	o.c.	c.b.c.o	45	40	10	-	2.1		Weymouth	bc.b.	b.b.c.o	45	38	9	-	-	-	5.6
	Eastbourne	a.c.b.c	b.c.o	45	40	10	-	2.5		Teignmouth									
	Brighton	o.b.c	b	45	40	13	-	2.5		Torquay	b.b.c	o	50	39	9	-	-	-	3.5
	Worthing	c.b.c	b.c.o	44	39	10	-	2.0		Paignton	b	b.c.o	46	37	9	-	-	-	3.0
	Littlehampton ...	bwm	b.c.e	44	39	8	-	2.6		Penzance	b.c.e	c.o.t	49	41	8	2	1.2		1.2
	Portsmouth (S'thess)	*	*	43	40	5	-	4.2		Newquay	x b.b.z	o.o.r	45	37	8	0.1			3.6
	Bournemouth ...	*	*	43	38	9	-	4.9		Bude	b	c	45	34	8	-			3.0
	Ventnor (I. of W.)	*	*	47	39	6	-	4.4		Ilfracombe	b.b.c.c	c.o	45	40	13	-	-		4.7
										Weston-s-Mare ...	bc	b.c.m	46	37	9	-	-		0.0

SUMMARIES FOR PAST 24 HOURS

STATIONS.	WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Greas. °F.	RAINFALL.		Sum. Hour
	7h-12h 23 rd	13h-18h 23 rd	18h23-19h24 th	1h-7h 24 th				Day.	Night.	
								7h-13h 18h-7h		
Renfrew ...	b x 3f 4f	b c o 4f 5f	b e g f g f p r s	a ff 13	34	22	19	mm.	mm.	0
Eskdalemuir ...	b e c .	b c b b l e z	o o . o	o ff. p. h.	35	19	18	-	1	3
Valencia (Cahirc's)	b e c . o	o f t	r r o	o p .	54	31	45	8	5	0
Baldonnell ...	b b c a t	c o o t	r 9	g r r	53	26	34	0.1	3	0
Manchester (Alack Park)	a b x 4f 5f	b o n f	a g g / o p / r /	o p f . r .	43	29	29	0.1	11	4
Ross on Wye ...	c o 3f p o f	b b e f b o a s e	a o g f r / r /	o . o	57	32	31	-	6	2
Falmouth ...	b a c f . c o	o g r f	o r f . g	o f f . o	54	36	32	2	13	1
Calshot (Hants) ...	a f . b b e	b o c . o	o f f . r e	o f f . r r	52	36	440	-	4	1
Lympne (Folkestone)	a p i g o f . b k e	b b e f c a f	o f f	o f f m a y g / g /	45	37	31	-	4	2
Aberdeen ...	b o a f	1 f - 2 f	1 f . x	2 f . o f f	42	28	19	-	Trace	4
Howden ...	w f x .	a w b . b e	o . o o	r r g	39	18	20	-	5	3
Cranwell (Lincs) ...	3 f b c e	b b c . c o	o . o f f	m d	38	28	24	0.1	6	3
Felixstowe ...	a r f . b c e	b b e z f	o . o . o f f	o a f / r	45	35	4	0.1	4	2
Shoeburyness ...	d d . f o b b e	a 2 f 2 f 3 f e	3 f e + o f e	R / 2 6	44	31	28	0.1	7	3
Benson ...	o f f	o . c . o	o . r f	r r	49	34	30	-	6	0
S. Farnborough	b . b b . b . c o	o f f o n f	o f f / r r	W . d . d .	51	36	31	-	Y	3
London (Kew Obsy.)	o f f . 2 f . b .	o f f c a o g w	o f f . o f f / w	o f f . p d .	48	35	30	Trace	9	3
Croydon ...	g g o f b e n	c o f f + s l e	o f f n s p	o f f o f f r	48	35	4	Trace	6	0

LONDON
OBSERVATION

Observation	Morning.	Afternoon.	Night.	+ F.	+ F.	+ F.	mm.	Hours	G.M.T.	G.M.T.
	24 HOURS ENDED 9h G.M.T. 24 th							YESTERDAY.		TO-DAY
Greenwich (Royal Observatory)	0	0.6 0.0	0.7	63	34	28	8	0.5	94	94
City (Bunhill Row)	*	*	*	*	*	*	*	0.2	*	*
Westminster (St. James's Park)	*	*	0.6	54	36	20	9	0.0	86	91
Regents Pk. (Botanical Gdns)	5	*	*	56	32	22	8	1.9	5	7.5
Camden Sq. (British Rainfall)	5.6	5.60	*	52	33	28	10	*	98	98
Kensington Palace	5.6.6	5.67	*	63	34	21	10	*	95 (18h)	95
Hampstead Observatory	*	*	*	57	35	26	10	5.0	*	95

BEAUFORT NOTATION.

- | BEAUFORT NOTATION. | |
|--------------------|---------------------------------------------|
| b | blue sky (not more than a quarter covered). |
| bc | sky partly cloudy (one half covered). |
| c | generally cloudy (three quarters covered). |
| d | drizzle, or fine rain. |
| e | wet air without rain falling. |
| f | fog. x gloom. |
| h | hail. l lightning. |
| m | mist. 'cast sky. |
| p | passing showers. |
| q | squalls. r rain. |
| rs | sleet, i.e., rain and snow together. |
| s | snow. t thunder. |
| u | ugly, threatening sky. |
| v | unusual visibility. |
| w | dew. x hoar frost. |
| y | dry air; humidity less than 60 per cent. |
| z | dust haze; the turbid atmosphere. of dry |

Capital letters indicate intensity, and repetition of letters continuity, thus:-
 R = heavy rain.
 rr = continuous moderate rain.
 r,r = continuous light rain.

THE BEAUFORT SCALE OF
WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at 30 feet above ground.	
	Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·2
1	1-5	0·4-1·6
2	4-7	1·6-2·2
3	8-12	2·2-3·6
4	13-18	3·6-7·0
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·2-17·1
8	39-46	17·2-20·7
9	47-54	20·3-24·4
10	55-63	24·5-28·1
11	64-75	28·5-38·5
12	Above 75	33·6 or above

目錄

- | SYMBOLS— | |
|--------------|----------------|
| Aurora | ◇ Solar halo |
| Rime | II Lunar halo |
| Glazed frost | ~ Solar corona |
| Glazed roads | ◆ Lunar corona |

TABLE SHOWING THE GREENWICH TIME OF
SUNRISE, NOON AND SUNSET FOR STATIONS
IN THE UNITED KINGDOM.

Stations.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth...	8.6	11.53	3.40
	8.6	11.53	3.41
Greenwich	8.7	12.0	3.53
	8.7	12.0	3.53
Wick	9.5	12.12	2.19
	9.5	12.12	2.19
Valencia ...	8.51	12.41	3.31
	8.51	12.41	3.32

Photographic Record of

Pole Star (Polaris) and of δ Ursae

Minoria at Greenwich Observatory.

Exposure time..... h... m.
bt. h... m.

	Duration at Exposure		Duration of Record.		
	b.	m.	b.	m.	%
is se ris					

NOTES ON THE WEATHER OF YESTERDAY.

A considerable fall of rain was experienced generally, which amounted to 21mm at Roche's Point and 15 at Falmouth, but this was preceded by bright weather, and between 4 and 6 hours of bright sunshine was experienced in several places. Local frost in England and Scotland early in the night was followed by a considerable rise of temperature in the West, a warm South-West wind in which the temperature varied from 50° to 54° advancing from the West, reaching a line from the Thames Estuary to North-West Ireland by 7 a.m.

* Information for these columns not usually received.

[†] Trace = rain has fallen but amount less than 0.1 mm.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:
BRITISH SECTION. No.B.21,583 Saturday, 25th December, 1920.

STATIONS	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 18H AND 24H.																													
	BAROM. at M.S.L. mb.	1 Change in 3 hours.	WIND. Dir. Force 0-12.	TEMP. °F.	HUMID. % 0-90.	Height of Low Cloud, Feet.	Low Cloud Form.	Atmos. 0-10.	Upper Cloud Form.	Amt. 0-10.	Sea 0-9.	BAROM. at M.S.L. mb.	1 Change in 3 hours.	WIND. Dir. Force 0-12.	TEMP. °F.	HUMID. % 0-90.	Height of Low Cloud, Feet.	Low Cloud Form.	Atmos. 0-10.	Upper Cloud Form.	Amt. 0-10.	Sea 0-9.								
18H. G.M.T. 24 th																														
Renfrew ...	997.0	-3	ENE	2	03f	56	97	2	1200	NB	10	-	-	*	998.1	+1	SW	3	04f	37	97	2	1200	NB	10	-	-	4	4	
Eskdalemuir ...	998.3	-2	-	0	050-2f	36	97	4	1200	NB	10	-	-	*	1000.7	+3	SW	3	05-4f	43	97	1	750	SB	10	-	-	4	4	
Valencia (Cahirc'n)	998.1	+1	WSW	5	01f	54	97	6	750	SB	10	-	-	*	1003.7	+1	S	3	0	52	92	6	750	SB	10	-	-	4	4	
Baldonnel ...	998.6	+2	SW	5	05g	53	85	8	1200	NB	10	-	-	*	1002.0	+4	SW	5	0	52	95	7	4200	ScGn	3	ASr	7	4		
Manchester (Qlerk)	1001.6	-1	SW	3	02f	51	92	4	1200	NB	4	ASr	6	*	1003.7	+2	SW	3	05-2f	52	92	4	2000	Nb	9	ASr	1	4		
Ross on Wye ...	1004.6	0	SW	3	06m	54	97	6	1200	NB	10	-	-	*	1006.3	+2	WSW	6	05-2f	54	92	7	750	Nb	9	ACn	1	4		
Falmouth ...	1006.8	+1	SW	7	0d ₀	54	97	5	-	NB	10	-	-	*	1009.0	+4	SW	4	0	54	97	5	-	NB	10	-	-	3	4	
Calshot (Hants) ...	1007.5	0	SW	5	0d ₀	52	97	4	<800	NB	10	-	-	*	1011.2	+3	SW	4	0d ₀	52	97	4	<800	Nb	10	-	-	3	4	
Lympne (Folkestone)	1009.5	+3	WSW	6	0d ₀	50	97	1	4200	NB	10	-	-	*	1012.0	+3	SW	5	0d ₀	51	97	1	<800	Nb	10	-	-	3	4	
Aberdeen ...	997.6	-6	SEW	3	082f	41	97	4	1200	NB	10	-	-	3	996.1	-1	SW	2	02f	40	97	4	1200	Nb	9	-	-	3	3	
Howden ...	1001.4	-2	S	2	05f	43	97	1	750	Sc	10	-	-	*	1003.0	+1	SSE	2	04f	50	97	3	2000	St	10	-	-	4	4	
Cranwell (Lincs) ...	1003.4	-1	SSW	4	05-2f	52	97	5	2000	Sc	10	-	-	*	1004.9	+1	SW	4	0	53	92	5	2000	Nb	7	ASr	3	4		
Felixstowe ...	1006.3	+1	SEW	3	02f	49	97	5	1200	Sc	10	-	-	*	1010.0	+2	SSW	3	02f	50	92	5	1200	St	10	-	-	3	4	
Shoeburyness ...	1007.3	+2	SW	3	c 348	95	6	Cu	7	-	-	-	*	1010.3	+3	SSW	3	0	53	95	7	2000	ScGn	7	ASr	3	4			
Benson ...	1005.9	0	SW	5	0d ₀	54	93	9	-	ScGn	10	-	-	*	1008.5	+2	SW	4	0	55	92	7	-	ScGn	8	-	-	3	4	
S. Farnborough	1007.7	+1	WSW	5	0d ₀	53	97	5	<800	NB	10	-	-	*	1010.1	+2	WSW	4	0d ₀	53	97	4	<800	Nb	10	-	-	3	4	
London (Kew Obsy.)	1007.3	+1	SW	4	01f	54	92	6	2000	ScGn	8	ASr	2	*	1010.0	+3	SW	4	02f	53	92	5	1200	ScGn	8	ASr	2	4		
Croydon ...	1008.5	+2	SW	4	05f	54	92	7	750	St	8	ASr	2	*	1010.7	+3	WSW	4	05f	47	92	6	2000	ScGn	10	ASr	2	4		
1H. G.M.T. OF 25 th																														
Renfrew ...	999.7	64	952	4	0	54	*	*	*	*	*	*	*	*	*	1004.4	+1	NW	3	052f	46	97	4	-	SB	10	-	-	4	4
Eskdalemuir ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.8	0	SSC	3	053f	47	97	3	750	Nb	10	-	-	4	4
Valencia (Cahirc'n)	999.7	64	952	4	0	54	*	*	*	*	*	*	*	*	*	1007.7	-2	SSW	6	09	53	85	5	2000	St	9	-	-	4	4
Baldonnel ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.9	+1	S	5	03f	52	85	3	4200	ScGn	7	ASr	3	4	
Manchester (Qlerk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.7	-1	S	4	bC	50	85	7	-	-	ASr	3	4		
Ross on Wye ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.8	-2	SSC	5	bC	51	97	6	-	ScGn	6	-	-	3	4
Falmouth ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.8	0	SSC	3	01f	47	93	6	-	-	ASr	3	4		
Calshot (Hants) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.4	+1	SW	3	C	47	92	6	3000	ScGn	5	C/Cu	3	4	
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.2	+7	NW	2	bC/bC	39	97	4	-	-	C/Cu	5	2		
Howden ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.0	+2	SSW	1	0m	51	92	4	2000	St	7	ASr	2	4	
Cranwell (Lincs) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.9	+2	S	3	01f	50	97	6	4200	ScGn	8	ASr	2	4	
Felixstowe ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.5	+2	S	2	0f	45	92	6	2000	Sc	10	-	-	2	
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1015.2	+2	SW	2	0	47	85	7	2000	ScGn	5	ASr	4	4	
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.4	0	SSW	2	b	48	92	6	-	-	C/St	2	4		
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.5	0	S	3	b	49	92	6	-	-	ASr	3	4		
London (M.O. at 1nd)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.5	0	S	1	bC	49	92	6	2000	St	2	ASr	2	4	
Croydon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1015.0	0	S	3	01f	49	92	6	750	St	6	ASr	2	4	
STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.																														
STATIONS	BAROM. at M.S.L. mb.	TEMP. °F.	WIND. Dir. Force 0-12.	WEATHER	BAROMETER at M.S.L. mb.	1 Change in 3 hours.	TEMP. °F.	Change in 24 hours.	WIND. Dir. Force 0-12.	Dir. of Upper Cloud.	WEATHER	Rainfall mm.	TEMP. °F. Max. Min. Morning	WEATHER.	Sunshine Hours.															
18H. G.M.T. of 24 th																														
Lerwick ...	996.5	42	SE	3	0Mf	1004.9	+8	44	+2	N	5	-	bc	4	12	44	41	OP	OMf	OMf	0	0.0								
Stornoway ...	991.9	39	SE	1	01f	1002.4	+2	41	-1	0	0	-	0	2	9	43	34	OPpm	OP	OP	0	0.0								
Castlebay (Barra)	993.9	51	W	5	OP	1000.1	0	50	+10	E	4	-	OP	4	5	52	40	rop	OPb											

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 25.12.20.

Districts	Weather, Cloud and Precipitation.	Visibility.	Sea.	Position-Number	Date	Time G.M.T	Sea °F	Air °F
1. S.E. England	Fair to cloudy.	Fair	Moderate	5	24°	0635	50	47
2. E. England	Cloudy	Good	Smooth	3	24°	1000	51	53
3. E. Midlands	Fair	Fair	-	7	25°	0340	49	52
4. W. Midlands	Fair	Fair	-	4A	25°	0400	46	51
5. S.W. England	Fair to dull	Fair	Rough	5	25°	0825	50	52
6. South Wales	Dull	Good	Moderate	12	25°	0550	49	46
7. North Wales	Dull	Fair	Moderate					
8. N.W. England	Dull, some mist	Indiff.	Slight					
9. N. Midlands	Dull	Indiff.	-					
10. N.E. England	Dull, some mist.	Indiff.	Slight					
11. E. Scotland	Fair, misty; some drizzle	Poor	Smooth					
12. S.W. Scotland	Dull, some rain.	Indiff.	Smooth					
13. Isle of Man	Dull	Fair	Slight					
14. N. & N.W. Scotland	Dull	Fair	Smooth					
15. Hebrides	Dull	Fair	Smooth					
16. Orkneys and Shetlands	Fair	Fair	Moderate					
17. N.W. Ireland	Dull, rainy.	Indiff.	Moderate					
18. N.E. Ireland	Dull, some rain	Fair	Smooth					
19. S.E. Ireland	Dull	Indiff.	R. rough					
20. S.W. Ireland	Dull	Fair	Rough					

Temperature reported from Coastal and Cross Channel Steamers.

Position-Number	Date	Time G.M.T	Sea °F	Air °F
5	24°	0635	50	47
3	24°	1000	51	53
7	25°	0340	49	52
4A	25°	0400	46	51
5	25°	0825	50	52
12	25°	0550	49	46



GENERAL INference from observations received up to 9h.

A new depression off Western Ireland will cause mild weather with much cloud and some rain during the next day or two. The wind will be mainly from SW or W, blowing strongly at times in all districts and probably reaching gale force in the West.

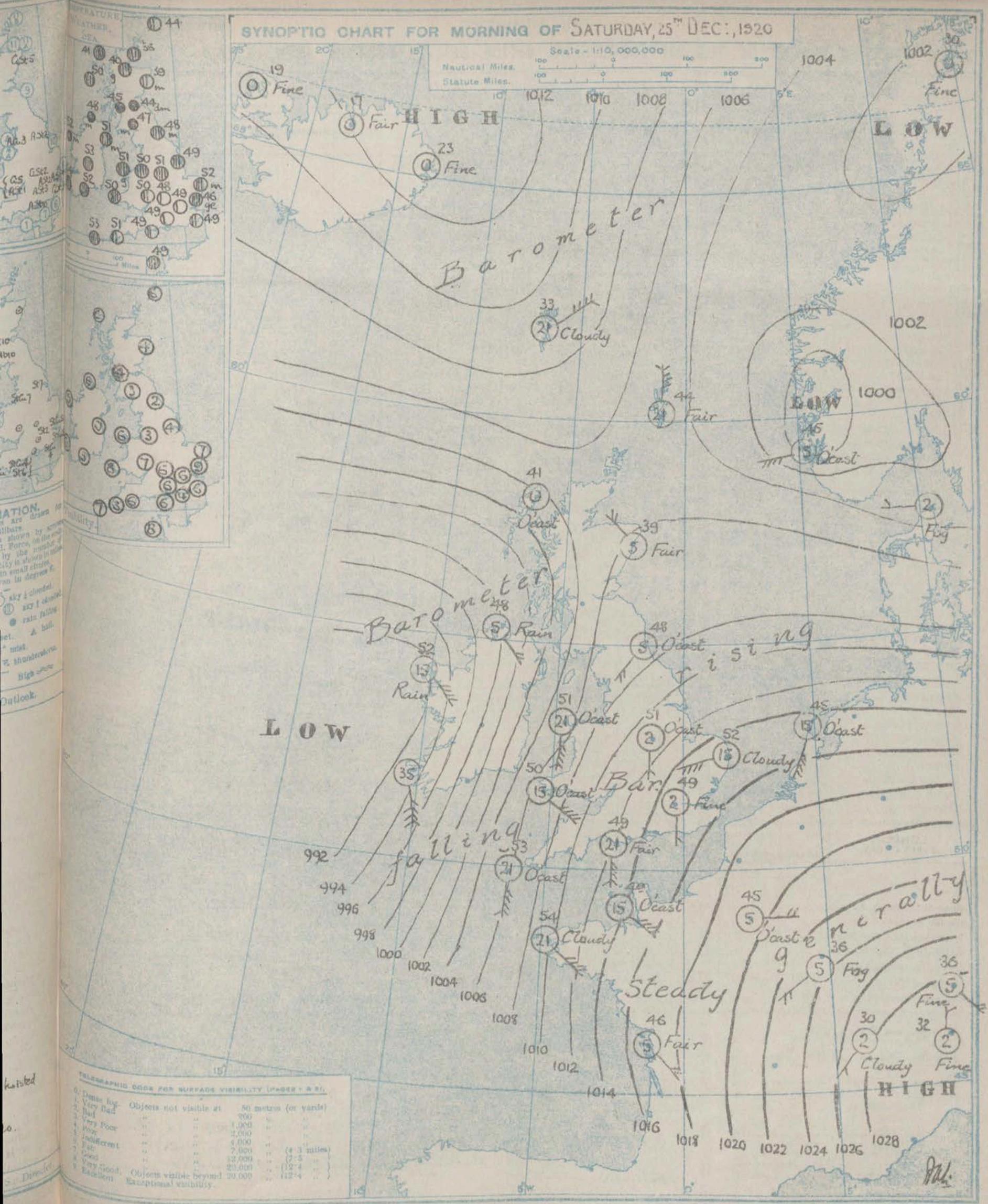
EXPLANATION.
BAROMETER. Isobars are drawn in intervals of two millibars.
WIND. Direction is shown by arrow flying with the wind. Force on the scale 0-12 is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE. is given in degrees F.
WEATHER SYMBOLS.
 clear sky. ☼ sky & clouded. ☽ sky & cloudy.
 ☻ overcast sky. ☿ rain falling.
 ✕ snow. ☸ sleet. ☷ hail.
 ☱ fog. ☲ mist.
 ☢ thunder. ☣ lightning.
SEA DISTURBANCE. High seas.

Further Outlook

Continuing mild with rain at times for a day or two.
 perhaps longer.
 South Cone hoisted
 0900
 25. 12. 20.

G. C. SIMPSON, F.R.S., Director

Districts	Forecasts for the 24 hours commencing 15 h. G.M.T. Saturday, 25th December 1920.
1. S.E. England	Wind from between SW & W fresh to strong; much low cloud, some rain; visibility poor at times; mild.
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	Gales or strong winds from between SW & W; much low cloud, some rain; visibility poor at times, mild.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	Same as 1 - 4
13. Isle of Man	Same as 5 - 8
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	Moderate Southerly winds, veering and freshening later; much cloud, some rain; visibility poor at times; mild.
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	Same as 5 - 8





AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:
BRITISH SECTION. No. B21,584. Sunday, 26th DECEMBER... 1920.

STATIONS.	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																																	
	BAROM. at M.S.L. mb.	Wind. Change in 3 hours.	Temp. °F.	Humid. % 0-9.	Height of Low Cloud, Feet.	Low Cloud.	Upper Cloud.	Sea	BAROM. at M.S.L. mb.	Wind. Change in 3 hours.	Temp. °F.	Humid. % 0-9.	Height of Low Cloud, Feet.	Low Cloud.	Upper Cloud.	Sea																		
13H. G.M.T. OF 25 th																																		
Renfrew ... Eskdalemuir ... Valencia (Cahirc'e) ... Baldonnel ... Manchester (Alex'td) Ross on Wye ... Falmouth ... Calshot (Hants) ... Lympne (Folkestone) ... Aberdeen ... Howden ... Cranwell (Lincs) ... Felixstowe ... Shoeburyness ... Benson ... S. Farnborough ... London (Kew Obsy.) ... Croydon ...																																		
1003.0	-2	SE	3	oif	51	85	7	3,000	SRCu	7	AST	3	x	9993	-4	SE	5	o																
1004.7	-1	SSE	3	oif	49	92	6	-	SC	10	-	-	x	1002.1	-3	SSE	4	or 2.3																
987.6	-5	SSE	7	o	55	85	6	2,000	SC	9	-	-	x	990.6	+4	SSW	8	o																
997.5	-4	SSW	7	c	55	75	6	4,250	SCu	8	-	-	x	996.1	0	S	7	or 2.3																
1007.4	-2	SSSE	5	oif	51	85	4	4,200	SCu	7	AST	3	x	1005.9	-2	SSE	5	oif																
1008.9	-3	S	3	o	52	85	7	-	-	-	x	1007.5	-3	S	5	o	S2	75																
1009.3	-3	S	6	cif	56	78	5	-	SCu	7	-	-	x	1005.8	0	SSW	8	oif																
1011.9	-3	SE	3	o	49	85	7	2,000	St	3	AST	17	2	1012.5	0	SE	4	cif																
1015.8	-1	S	4	o	49	85	8	5,700	SCu	2	CST	8	x	1015.1	0	SSE	4	c																
1006.5	-2	SE	2	oif	46	97	4	1,250	Nb	10	-	-	x	1003.3	-4	SE	4	or 2.3																
1009.1	-2	SSW	3	omq	50	92	5	3,000	SCu	8	AST	4	x	1007.3	-1	S	5	oif																
1010.8	-1	S	4	o	50	92	7	4,200	SCu	7	AST	2	x	1010.0	-1	SSE	4	oif																
1014.7	-2	S	4	oif	47	92	6	3,000	Cu	4	AST	6	x	1014.8	0	S	3	cif																
1013.6	-2	SSW	2	c	43	85	7	3,000	SCu	4	AST	3	x	1014.1	+1	S	3	c																
1011.1	-2	S	2	bc	51	85	6	-	-	-	-	-	x	1011.2	0	S	3	bc																
1011.8	-3	S	2	o	52	85	7	-	-	-	-	-	x	1012.4	0	SSE	3	oif																
1012.5	-2	S	3	cif	53	75	5	-	CN	-	CST	8	x	1013.4	+1	S	5	oif																
1013.2	-2	SSW	4	oif	52	85	6	-	-	-	-	-	x	1013.4	+1	AST	10	oif																
1H. G.M.T. OF 26 th																																		
Renfrew ... Eskdalemuir ... Valencia (Cahirc'e) ... Baldonnel ... Manchester (Alex'td) Ross on Wye ... Falmouth ... Calshot (Hants) ... Lympne (Folkestone) ... Aberdeen ... Howden ... Cranwell (Lincs) ... Felixstowe ... Shoeburyness ... Benson ... S. Farnborough ... London (M.O. at 1m.) ... Croydon ...																																		
999.0	+10	SSW	7	om	50	*	*	*	*	*	*	*	*	*	1001.6	+4	SW	5	omq															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.6	+2	SSW	6	or 2.3															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.3	+1	S	4	oif															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.0	+5	SSW	1	oif															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.0	+3	S	4	bif															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.4	+3	SW	2	cif															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.7	0	SW	3	bc															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.9	+3	S	4	oif															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1015.5	0	SSW	4	oif															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1001.0	+2	SSE	1	oif															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.3	+1	S	4	bif															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.2	+2	S	3	bif															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1015.1	+1	SSE	3	bif															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.3	+	S	2	bif															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.3	+2	SSW	3	bif															
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1015.0	+1	S	4	cif															
STATIONS CONTRIBUTING REPORTS AT 7H AND 13H.																																		
STATIONS.	BAROM. at M.S.L. mb.	WIND.		Weather	BAROMETER.		TEMPERATURE.		WIND.		Dirac. of Upper Cloud.	Weather	Sea	TEMP.		WEATHER.		Sunshine Hours																
		at M.S.L. mb.	Change in 3 hours.		Temp. °F.	Change in 24 hours.	Dirac	Force 0-12.	Temp. °F.	Change in 3 hours.				Dirac	Force 0-12.	Max. °F.	Min. °F.		Morning	Afternoon	Night													
18H. G.M.T. of 25 th																																		
Lerwick ... Stornoway ... Castlebay (Barrels) ... Malin Head ... Blacksod Point ... Roche's Point ... Birr Castle ... Donaghadee ... Liverpool (Bidston) ... Holyhead ... Pembroke (St. Ann's Head) ... Scilly (St. Mary's) ... Jersey (St. Aubin) ... Portland Bill ... Dungeness ... Wick ... Nairn ... Leith ... Flynemouth ... Spurn Head ... Yarmouth (Ipswich) ... Clacton-on-Sea ... Nottingham ...																																		
1007.7	44	SE	6	omq	994.9	-8	50	+6	S	6	S	-	omq	4	5	51	43	C																
993.5	48	S	5	omq	994.5	+5	51	+10	S	5	S	-	omq	4	8	55	51	or																
990.7	51	ESE	5	oif	994.2	+4	52	+2	SW	4	S	0	5	5	53	49	opδ																	
1007.2	51	SE	5	o	999.3	+3	48	0	SSW	3	S	c	3	1	55	42	om																	
980.7	55	S	7	cif	1003.3	+8	50	-	SW	3	S	bc	4	6	54	48	cp																	
995.9	53	SSW	6	c	1005.6	+1	50	-2	SSE	4	-	5	1	54	50	om	ompc																	
992.3	54	SSE	4	o	1003.8	-	45	-8	SSE	1	-	b	3	3	55	44	oq/p																	
998.4	53	SW	3	om	1004.6	+7	45	-6	S	1	-	b	-	53	?	om	om																	
1003.6	50	ESE	4	o	1007.0	+3	50	0	SSW	3	b	SW	3	-	53	49	cm																	
999.7	52	S	7	o	1005.2	+2	50	-1	SW	5	b	SW	4	9	54	48	o-cv																	
1002.9	53	S	5	o	1009.4	+3	51	-2	SSW	4	b	bif	4	-	54	50	o-cv																	
1003.3	54	SSW	5	cif	1008.7	+1	52	-1	S	2	b	bif	4	-	57	51	o-cm																	
1013.7	49	SE	3	c	1015.5	0	49	0	S	3	b	3	-	50	48	o-c	cvm-c																	
1016.7	50	SSE	6	c	1012.9	+2	49	-5	SSW	6	b	6	0.2	53	47	bc	c																	
1014.3	49	SSW	3	b	1014.9	0	48	-1	SW	2	b	3	-	50	47	bc	ccp																	
1001.0	46	ESE	8	omq	996.8	+5	47	+9																										

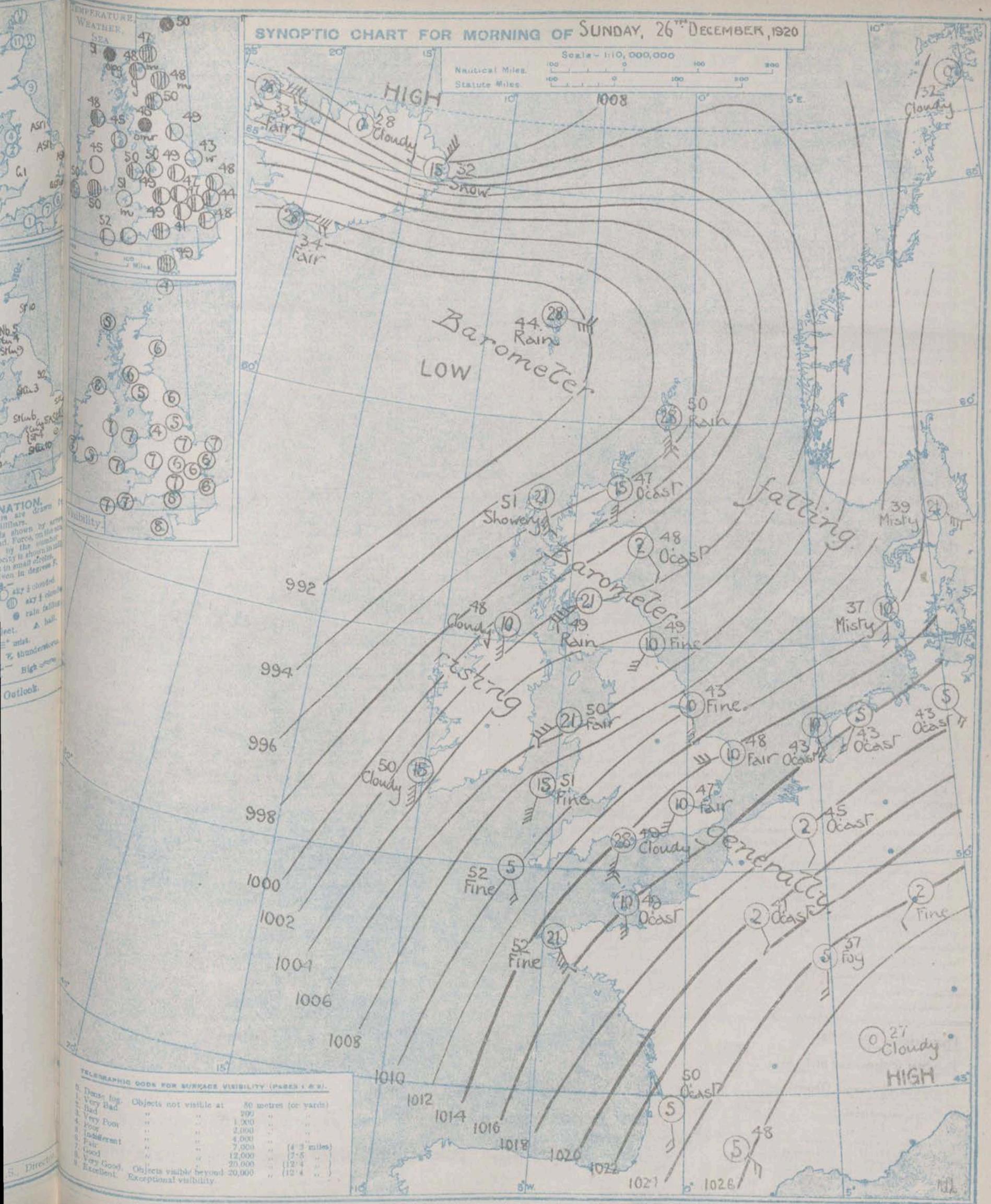
SUMMARY OF CONDITIONS AT 7 h.G.M.T. 26.12.30				Temperature reported from Coastal and Cross Channel Steamers				CHART OF POSITION NUMBERS and Upper Cloud
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.	Position Number	Date	Time G.M.T.	Sea °F	Air °F
1. S.E. England	Fair.	Fair	Slight					
2. E. England	Fair.	Good	Smooth					
3. E. Midlands	Fair.	Fair	"					
4. W. Midlands	Fair.	Good	"					
5. S.W. England	Fine to cloudy.	"	Rough					
6. South Wales	Fine.	"	mod.					
7. North Wales	Fair.	"	"					
8. N.W. England	Fair, some mist.	Fair	Slight					
9. N. Midlands	Fair, some mist.	indiff.	"					
10. N.E. England	Fine, misty.	Fair	Slight					
11. E. Scotland	Cloudy, misty.	"	Smooth					
12. S.W. Scotland	Dull, some rain.	indiff.	Slight					
13. Isle of Man	Fair.	Good	"					
14. N. & N.W. Scotland	Dull, mist.	indiff.	"					
15. Hebrides	Dull, showery.	"	mod.					
16. Orkneys and Shetlands	Smallly, some rain.	Poor	Slight					
17. N.W. Ireland	Fine to cloudy.	Good	Slight					
18. N.E. Ireland	Dull.	indiff.	R.Rough					
19. S.E. Ireland	Cloudy.	Good	mod.					



EXPLANATION.
 BAROMETER.—Isobars are drawn at intervals of two millibars.
 WIND.—Direction is shown by arrow flying with the wind. Force on the Beaufort scale 0-12 is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
 TEMPERATURE is given in degrees F.
 WEATHER SYMBOLS.—
 ☀ clear sky.
 ☁ sky is cloudy.
 ☁ overcast sky.
 ☂ snow.
 ☃ sleet.
 ★ half.
 ☛ fog.
 ☚ mist.
 ☢ thunder.
 ☣ lightning.
 SEA DISTURBANCE.—
 Rough—High seas.

Further Outlook

Districts.	Forecasts for the 24 hours commencing 15 h.G.M.T. Sunday, 26th December, 1930	Mild with rain at times
1. S.E. England		
2. E. England	moderate to fresh S to SW wind; fair at first, some rain later; visibility mainly good; mild.	
3. E. Midlands		
4. W. Midlands		
5. S.W. England		
6. South Wales		
7. North Wales	Wind SW, strong at times; much cloud, some rain; visibility mainly good; mild.	
8. N.W. England		
9. N. Midlands		
10. N.E. England	Same as 1 - 5	
11. E. Scotland		
12. S.W. Scotland	Wind S to SW, strong at times, much cloud, some rain; visibility fair; mild.	
13. Isle of Man		
14. N. & N.W. Scotland		
15. Hebrides		
16. Orkneys and Shetlands		
17. N.W. Ireland		
18. N.E. Ireland		
19. S.E. Ireland	Same as 6 = 9	
20. S.W. Ireland		



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 364. {Sunday, 26 DECEMBER.

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 25 th																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 18h-19h.	Day. 19h-20h.	Sunrise to Sunset. 24-25 th	Sunrise to Sunset. 25 th			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 18h-19h.	Day. 19h-20h.	Sunrise to Sunset. 24-25 th	Sunrise to Sunset. 25 th
England, N.E.	Oban	o	o	53	47	4	-	0.0	0.0	Douglas (I.O.M.)	o	o	51	42	3	-	0.0	0.0	
	Banff	o	o	48	37	-	0.4	0.0	0.0	Blackpool	o	o	51	42	3	-	0.0	0.0	
	Montrose	o	o	49	37	3	-	0.0	0.0	Southport	o	o	51	42	3	-	0.0	0.0	
	St. Andrews	o	o	46	39	-	-	0.5	0.5	Morecambe	o	o	51	42	3	-	0.0	0.0	
England, E.	Harrogate	o	o	49	37	3	-	0.0	0.0	Buxton	o	o	52	47	4	-	0.5	0.5	
	Scarborough	o	o	49	37	-	-	0.0	0.0	Leamington Spa	c.b.	o	52	47	4	-	0.5	0.5	
	Skegness	o	o	46	39	-	-	0.5	0.5	Malvern	c.	c.b.o	55	50	1	-	1.1	1.1	
England, S.E.	Lowestoft	o	o	46	39	-	-	0.5	0.5	Bath	c.	c.b.o	55	50	1	-	1.1	1.1	
	Felixstowe	o	o	46	39	-	-	0.5	0.5	Rhyl	o	o	59	40	7	-	1.5	1.5	
	Southend-on-Sea	o	o	46	39	-	-	0.5	0.5	Colwyn Bay	o	o	59	40	7	-	1.5	1.5	
	Tunbridge Wells	c.o.c	c.o.b.c	52	47	1	-	0.0	0.0	Llandudno	o	o	59	40	7	-	1.5	1.5	
	Margate	c	c	52	49	0.1	-	0.0	0.0	Aberystwyth	o	o	59	40	7	-	1.5	1.5	
	Ramsgate	*	*	*	*	*	*	*	*	Tenby	o	o	59	40	7	-	1.5	1.5	
	Folkestone	*	*	*	*	*	*	*	*	Swansea	o	o	59	40	7	-	1.5	1.5	
	Hastings	c.o.c	b.o.c.u	51	47	1	-	0.5	0.5	Weymouth	c.	c	53	43	1	-	0.0	0.0	
	Eastbourne	c.b.c.c	c.c	51	47	1	-	0.6	0.6	Teignmouth	o	o	55	52	2	-	0.4	0.4	
	Brighton	*	*	*	*	*	*	*	*	Torquay	o	o	56	43	2	1	0.1	0.1	
	Worthing	*	*	*	*	*	*	*	*	Paignton	o	o	56	43	2	1	0.1	0.1	
	Littlehampton	*	*	*	*	*	*	*	*	Penzance	o	o	59	51	2	-	2.9	2.9	
	Portsmouth (S'hsaa)	*	*	*	*	*	*	*	*	Newquay	?	?	59	51	2	-	1.5	1.5	
	Bournemouth	*	*	*	*	*	*	*	*	Bude	o	o	57	51	2	-	1.5	1.5	
	Ventnor (I. of W.)	*	*	*	*	*	*	*	*	Ilfracombe	o.c.b.c	b.c.c.o	57	51	2	-	1.5	1.5	
	Weston-s-Mare	*	*	*	*	*	*	*	*	Weston-s-Mare	o.c.b.c	b.c.c.o	57	51	2	-	1.5	1.5	

STATIONS.		SUMMARIES FOR PAST 24 HOURS.												BEAUFORT NOTATION.												THE BEAUFORT SCALE OF WIND FORCE.	
		7h-18h25 th	18h-18h25 th	18h25 th -18h26 th	1h-7h26 th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	RAINFALL.	Sun. Hours.	7h-18h	18h-7h	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.			
Renfrew	oofr	oofr	oofr	oofr	54	46	44	mm. 4	mm. 0.3	6.0	oofr	oofr	54	46	44	mm. 2	mm. 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Eskdalemuir	oif	oif	oif	oif	50	45	44	mm. 2	mm. 0.3	0.0	oif	oif	50	45	44	mm. 2	mm. 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Valencia (Cahirc's)	oif	oif	oif	oif	56	48	45	mm. 2	mm. 0.3	0.0	oif	oif	56	48	45	mm. 2	mm. 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Baldonnel	oif	oif	oif	oif	56	48	40	mm. 0.2	mm. 1	0.0	oif	oif	56	48	40	mm. 0.2	mm. 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Manchester (Alex PK)	oif	oif	oif	oif	53	48	42	-	-	0.0	oif	oif	53	48	42	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Ross on Wye	bc.c.c	c.c	c.c	c.c	53	49	42	-	-	0.4	bc.c.c	bc.c.c	53	49	42	-	-	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Falmouth	bc.c.c	c.c	c.c	c.c	56	49	46	-	-	1.5	bc.c.c	bc.c.c	56	49	46	-	-	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Calshot (Hants)	oif	oif	oif	oif	52	44	44	-	-	0.1	oif	oif	52	44	44	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Lympne (Folkstone)	oif	oif	oif	oif	51	45	42	-	-	0.5	oif	oif	51	45	42	-	-	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Aberdeen	2f	2f	2f	2f	49	38	43	3	1	0.0	2f	2f	49	38	43	3	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Howden	2f	2f	2f	2f	51	44	39	-	-	0.0	2f	2f	51	44	39	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cranwell (Lincs)	oif	oif	oif	oif	51	42	40	4	0.1	0.0	oif	oif	51	42	40	4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Felixstowe	oif	oif	oif	oif	48	43	37	-	-	0.7	oif	oif	48	43	37	-	-	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Shoeburyness	oif	oif	oif	oif	49	43	36	-	-	0.6	oif	oif	49	43	36	-	-	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Benson	b.b.c.b	b.b.c.b	b.b.c.b	b.b.c.b	52	47	41	-	-	0.0	b.b.c.b	b.b.c.b	52	47	41	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S. Farnborough	b.b.c.b	b.c.c.o	b.c.c.c	b.c.c.c	52	47	44	-	-	0.3	b.b.c.b	b.b.c.b	52	47	44	-	-	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
London (Kew Obsy.)	oif	oif	oif	oif	53	47	36	-	-	0.0	oif	oif	53	47	36	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Croydon	oif	oif	oif	oif	52	47	37	-	-	0.0	oif	oif	52	47	37	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LONDON. OBSERVATIONS.		WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rain-fall. mm.	Sun-shine to Sunset. Hours.	HUMIDITY %	SOUTH KENSINGTON (Meteorological Office).		Vertical Component of Solar Radiation per Square Centimetre during yesterday		TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.	
Morning.	Afternoon.	Night.	15 h. G.M.T.	9 h. G.M.T.	G.M.T.	G.M.T.									

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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B.26,585 Monday, 27th December....1920.

STATIONS.	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																												
	BAROM. at M.S.L. mb.	Wind. Change in 2 hours.	Wind. Dir. & Force 0-12.	Temp. °F.	Humidity. %	Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud.				Upper Cloud.				Sea Form.	Barom. at M.S.L. mb.	Wind. Change in 2 hours.	Wind. Dir. & Force 0-12.	Temp. °F.	Humidity. %	Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud.				Upper Cloud.	Sea Form.
								Amt. 0-10.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.													
Renfrew ...	1007.2	+4	SSW	4	C	49	85	6	2,000	Scru	2	CSt	6	X	*	1007.0	0	ESE	2	01f	46	85	6	3,000	Scru	8	ASt	2	S
Eskdalemuir ...	1008.2	+4	SSW	4	O	47	92	7	-	Scru	10	-	-	*	*	1009.2	0	S	2	b	42	92	6	-	Scru	2	ASt	1	S
Valencia (Cahirc'') ...	999.0	-5	SE	6	C	53	75	8	2,000	Scru	7	ASt	1	4	*	990.9	-10	S	7	54	75	7	1,250	Sc	10	-	-	4	
Baldonnel ...	1006.5	-1	S	4	cif	55	75	7	750	Scru	8	-	-	*	*	1003.2	-5	SSE	4	02f	50	85	5	1,250	Sc	10	-	-	S
Manchester (alex)	1010.9	0	S	4	cif	53	75	5	-	-	-	C	7	X	*	1004.8	-3	E	2	bif	45	85	3	4,200	Scru	1	-	-	X
Ross on Wye ...	1011.8	-1	SSW	3	c	53	85	7	2,000	Scru	6	Ci	2	*	*	1004.6	-4	ESE	2	0	49	85	7	2,000	Nb	3	ASt	6	S
Falmouth ...	1008.6	-4	SSE	3	cif	52	92	4	-	-	-	*	*	*	*	1002.6	-5	SE	5	07.023	51	92	5	-	Nb	14	-	-	S
Calshot (Hants) ...	1013.9	-2	ESE	2	0lf	53	85	6	-	-	-	ASt	9	1	*	1010.2	-5	ESE	4	bif	46	97	6	4,200	Sc	8	-	-	3
Lympne (Folkestone) ...	1015.6	0	S	3	bcm	49	92	6	1,250	Scru	1	0.4m	4	*	*	1012.9	-4	SSE	5	bcm	47	92	6	-	-	CiX	4	*	
Aberdeen ...	1005.8	+4	SSW	3	bif	50	75	7	-	-	-	-	-	-	*	1008.5	+2	NW	1	b2fje	44	92	4	-	-	-	ASt	6	Z
Howden ...	1011.4	+1	SSW	2	cym	51	92	6	3,000	Scru	4	CSt	4	*	*	1011.5	-1	S	1	0m	41	91	6	<750	Sc	4	ASt	6	4
Cranwell (Lincs) ...	1012.5	0	SW	3	o	53	85	7	4,200	Cm	1	CSt	8	*	*	1012.6	-1	SE	2	bc	40	97	2	-	-	CSt	6	2	
Felixstowe ...	1018.5	-2	S	3	bif	47	92	7	-	-	-	ASt	5	*	*	1017.1	-2	SSE	2	bif	43	91	5	-	-	ASt	2	1	
Shoeburyness ...	1014.9	-1	SSW	1	bif	47	85	6	-	-	-	0.4m	2	*	*	1012.8	-2	SSW	2	b	43	85	7	4,200	Scru	1	Ci	1	*
Benson ...	1012.7	0	S	2	b	54	75	5	-	-	-	-	-	*	*	1010.3	-2	S	2	b	48	92	3	-	Cm	2	-	*	
S. Farnborough ...	1013.6	-2	WNW	2	b	56	92	7	-	-	-	-	-	*	*	1011.1	-5	SE	2	bif	47	92	5	2,000	Sc	3	-	-	*
London (Kew Obsy.) ...	1012.9	+4	S	2	bif	53	75	4	-	-	-	-	-	*	*	1011.5	-5	SE	1	bif	48	92	4	2,000	Sc	2	ASt	1	*
Croydon ...	1014.6	-2	S	3	bif	55	85	5	-	-	-	ASt	1	*	*	1011.7	-6	S	3	b2f	49	85	4	2,000	Sc	2	ASt	3	*
Renfrew ...	1004.1	-4	NNW	1	07.23f	41	92	4	2,000	Nb	10	-	-	*	*	995.8	-5	ENE	3	od2f	46	92	4	-	-	Sf	10	-	*
Eskdalemuir ...	982.2	-12	SE	7	cmqf	51	85	4	750	Scru	8	Nb	4	*	*	997.4	-5	E	3	07.23f	46	85	4	1,250	Nb	10	-	-	*
Valencia (Cahirc'') ...	994.8	-10	SE	5	07.9	40	85	4	-	-	-	*	*	*	*	989.0	+16	SW	6	bc	50	65	8	4,200	Cm	6	-	-	*
Baldonnel ...	994.8	-10	SE	5	07.9	40	85	4	-	-	-	*	*	*	*	989.5	-4	SSE	6	07.9	50	85	3	750	Sc	10	-	-	*
Manchester (alex)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	998.2	-5	SE	3	07f	47	85	3	750	Sc	10	-	-	*
Ross on Wye ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	998.9	-3	SW	5	07.9	51	92	6	1,250	Nb	10	-	-	*
Falmouth ...	997.8	-2	S	4	o	53	85	7	-	-	-	ASt	10	3	*	1000.1	+6	SW	6	b	51	85	8	-	-	-	*		
Calshot (Hants) ...	1003.6	-4	SE	3	0lf	47	85	6	-	-	-	ASt	10	3	*	1003.4	0	SSW	5	0lf	49	97	7	750	Sc	10	-	-	*
Lympne (Folkestone) ...	1007.3	-5	S	4	cmqf	46	85	6	-	-	-	CSt	8	*	*	1002.8	-2	SSW	5	07.9	48	97	6	1,250	Sc	10	-	-	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.1	-6	SE	4	07.23f	46	97	5	1,250	Nb	10	-	-	3
Howden ...	1005.0	-6	ESE	3	o	43	97	5	3,000	Scru	10	-	-	*	*	999.6	-2	S	1	o	41	91	4	750	Sc	10	-	-	*
Cranwell (Lincs) ...	1007.3	-1	SE	3	bif	41	97	4	3,000	Scru	1	A.GL	3	*	*	1000.0	-6	S	4	07f	41	97	4	2,000	Scru	10	-	-	*
Felixstowe ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.0	-2	S	4	07f	45	97	6	1,250	Nb	10	-	-	3
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.7	-1	SW	1	Cm	48	85	7	3,000	Scru	7	-	-	*
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1001.3	-3	S	5	o	48	97	5	-	-	-	-	*	
S. Farnborough ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.3	-1	SSW	4	07f	49	97	5	2,000	Sc	10	-	-	*
London (M.O. at 1m.) ...	1004.0	-5	S	5	07.9	45	85	6	3,000	Scru	4	ASt	6	*	*	1002.7	-1	SSW	3	o	50	47	7	1,250	Scru	8	ASt	2	*
Croydon ...	1005.4	-6	S	5	07.9	47	85	6	-	-	-	ASt	0	*	*	1004.2	0	SSW	4	07.23f	49	97	5	750	Nb	10	-	-	*
Lerwick ...	1005.9	49	SW	3	b	51	43	0	1006.7	-3	44	-6	-	*	*	1002.1	02	50	43	0	c	c	c	c	bcm	0.5	*		
Stornoway ...	1003.8	48	SW	2	b	52	47	47	995.6	-7	50	-2	E	4	*	*	1004.0	4	0	47	48	07.023	52	48	0	Scru	0.5	*	
Castlebay (Barra) ...	1004.0	HQ	ESE	4	b	53	47	7																					

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 27.12.1920.

Districts	Weather, Cloud and Precipitation.	Visibility	Sea
1. S.E. England	Dull, misty, rain locally.	Indiff.	Mod.
2. E. England	Dull.	Fair	Smooth
3. E. Midlands	Dull, misty.	Poor	-
4. W. Midlands	Dull, misty.	V.Poor	-
5. S.W. England	Variable sky, clearing.	Good	Rough
6. South Wales	Dull, squally.	V.Good	R.Rough
7. North Wales	Dull, squally, drizzle.	Fair.	"
8. N.W. England	Dull, misty.	Poor	Mod.
9. N. Midlands	Dull, misty.	"	-
10. N.R. England	Dull.	Fair	Slight
11. E. Scotland	Dull, rainy, foggy.	Indiff.	"
12. S.W. Scotland	Dull, misty, rainy.	Poor	Mod.
13. Isle of Man	Dull, squally.	Fair	"
14. N. & N.W. Scotland	Variable sky.	Indiff.	Smooth
15. Hebrides	Dull, squally.	Fair	Mod.
16. Orkneys and Shetlands	Fine.	Poor	Calm
17. N.W. Ireland	-	-	-
18. N.E. Ireland	Dull, misty, squally.	Fair	Mod.
19. S.E. Ireland	Fine.	"	R.Rough
20. S.W. Ireland	Fair.	V.Good	-

Temperature reported from Coastal and Cross Channel Steamers.

Position-Number	Date	Time G.M.T.	Sea °F	Air °F
3	26 th	1342	52	51

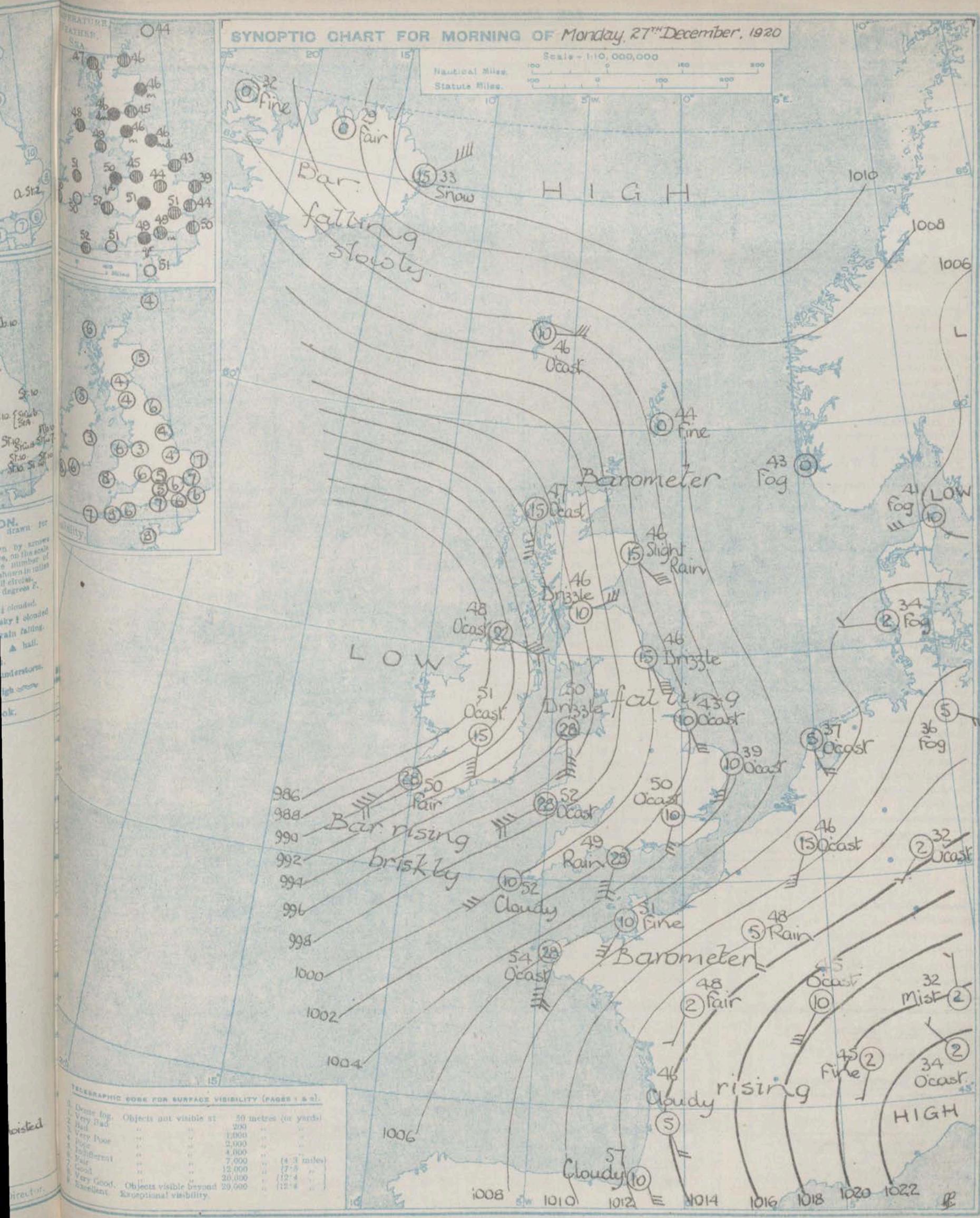


EXPLANATION.
 BAROMETER.—Isobars are drawn at intervals of two millibars.
 WIND.—Direction is shown by arrows flying with the wind. Force, on the axis 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
 TEMPERATURE is given in degrees F.
 WEATHER SYMBOLS.—
 ☀ clear sky. ☁ sky 1 cloudy.
 ☁ sky 2 cloudy. ☁ sky 3 cloudy.
 ☁ overcast sky. ☂ rain falling.
 * snow. ☃ sleet. ▲ hail.
 Ⓜ fog. Ⓜ mist.
 T thunder. Ⓜ thunderstorm.
 SEA DISTURBANCE.—
 Rough. High.

Farther Outlook.

Districts	Forecasts for the 24 hours commencing 15 h G.M.T. Monday, 27th December, 1920.
1. S.E. England	
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	Wind between S. and S.W., light or moderate, stronger in places; variable sky, some showers and squalls, visibility mainly fair; continuing mild.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.R. England	
11. E. Scotland	
12. S.W. Scotland	Wind mainly between S. and S.W., fresh or strong to moderate; rainy, squally, then showery, visibility indifferent to fair; mild.
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	Wind between S. and S.W. or W., fresh or strong to moderate; changeable, showery, squally, visibility mainly fair; mild.
19. S.E. Ireland	
20. S.W. Ireland	

South Cone Hoisted



AIR MINISTRY.
DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. NO. 362. { Monday 27th December }

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 26 th																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h.	Day 19h-20h.	Sunrise to Sunset.	26 th			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-19h.	Day 19h-20h.	Sunrise to Sunset.	26 th
Scotland.	Oban ...	bc	bc.b	50	45	-	-	2.4		England, N.W.	Douglas (I.O.M.)								
	Banff ...	b	bc.b	50	45	-	-	2.4			Blackpool ...	c	bc	52	47	-	-	2.8	
	Montrose ...	b	bc.b	50	45	-	-	2.4			Southport ...	b.bcb	c.b.bcb	53	46	-	-	3.5	
	St. Andrews ...	b	bc.b	50	45	-	-	2.4			Morecambe ...								2.6
England, N.E.	Harrogate ...	c.b.b	b.bcb	50	44	-	-	1.3		Midlands.	Buxton ...								
	Scarborough ...	b	bc.b	50	44	-	-	1.3			Leamington Spa ...								
	Skegness ...	b	bc.b	50	44	-	-	1.3			Malvern ...								
	Lowestoft ...	b	bc.b	47	?	-	-	3.5			Bath ...	b.b	b.c.o	54	51	-	-	1.3	
England, S.E.	Felixstowe ...	b	bc.b	47	?	-	-	3.5		Wales.	Rhyl ...	b.b	c.b	56	48	-	-	3.4	
	Southend-on-Sea ...	b	bc.b	47	?	-	-	3.5			Colwyn Bay ...								
	Tunbridge Wells ...	c.b.b	b.bcb	55	45	-	-	2.6			Llandudno ...								
	Margate ...	c	bc	?	46	-	-	0.6			Aberystwyth ...								
England, S.E.	Ramsgate ...	f.c.c	c.c	51	45	-	-	1.7		England, S.W.	Tenby ...								
	Folkestone ...	f.c.c	c.c	55	46	-	-	0.0			Swansea ...								
	Hastings ...	b.c.c	c.b	53	47	0.2	-	2.9			Weymouth ...	c.b.b	b.b	55	48	-	-	3.2	
	Eastbourne ...	b.c	c.b	52	45	-	-	2.1			Teignmouth ...								
England, S.E.	Brighton ...	b	bc	52	45	-	-	3.5			Torquay ...	o.c.o	bc	55	50	6	-	1.2	
	Worthing ...	b	bc	52	45	-	-	3.5			Paignton ...	c.b	56	49	-	-	-	1.1	
	Littlehampton ...	b	bc	52	45	-	-	3.5			Penzance ...								
	Portsmouth (Sthsea)	*	*	55	48	-	-	3.5			Newquay ...								
England, S.E.	Bournemouth ...	*	*	55	48	-	-	3.5		England, S.W.	Bud ...	bc	53	48	0.1	0.1	1.4		
	Ventnor (I. of W.)	*	*	55	48	-	-	3.5			Illacombe ...	b.b.c	c.o	55	47	-	-	3.5	
England, S.E.											Weston-s-Mare ...								2.9

STATIONS.		SUMMARIES FOR PAST 24 HOURS.											
		WEATHER.				Max. Temp. F.	Min. Temp. F.	Min. on Gr. F.	RAINFALL.		Sun. Hours.		
Renfrew ...	c.p.b.c	if	c.03f	02f	50	42	35	mm.	mm.	124			
Eskdalemuir ...	p.01f	cob.cbb	bbccaffrr	rr 02f	47	36	32	0.2	3	0.5			
Valencia (Cahircin) ...	c.o	0.01f	rr	rr bcc	55	44	47	1	18	0.1			
Baldonnel ...	c.b.c.c	c.01f	0.019.03f	03frq02f	56	41	45	0.1	2	2.0			
Manchester (Alex Park) ...	b.cif	bcbbfb	b.bcf	b.bcf	53	42	33	-	0.1	*			
Ross on Wye ...	b.c.o	c.o	0.01f	0.01f	53	47	42	-	1	0.5			
Falmouth ...	b.c.c.02f	0.01f	b.c.o	b.b	53	41	48	-	1	0.5			
Calshot (Hants) ...	if c.o	0.01f if	0.01f rr	0.01f rr	54	45	42	-	3	3.6			
Lympne (Folkestone) ...	c.001fb/cb/cbif	c.001fb/cb/cbif	c.01fbq1f	c.01fbq1f	51	45	42	-	Trace	2.8			
Aberdeen ...	3fe if	2f 2fe	2fe 2fe	2fe 1f	50	35	29	0.2	0.1	3.1			
Howden ...	q.00c	1fe o	0.01f	0.01f	51	38	32	-	-	2.0			
Cranwell (Lincs) ...	b.bcb	bc.cw	bc.c b.b	if 02f	53	35	32	-	0.1	4.7			
Felixstowe ...	2fe b.c.c	if b.b	b.b.c	b.b.c	51	48	42	-	1	3.0			
Shoeburyness ...	b.bcf	1fe b.b	b.b.c	b.b.c	48	39	33	-	-	3.3			
Benson ...	b	b	b.b	b.b	55	43	37	-	1	*			
S. Farnborough ...	b.c.o	b.b	b.b.c	b.b.c	57	44	37	-	1	3.4			
London (Kew Obsy.) ...	Worzbz	2zf	0.03f	0.01f	54	45	36	-	0.4	3.6			
Croydon ...	bco.bccfc/bbcoif	c.01fbq1f	c.01fbq1f	c.01fbq1f	55	46	48	-	0.2	*			

LONDON OBSERVATIONS.		WEATHER.	Max. Temp. F.	Min. Temp. F.	Min. on Grass F.	Rain-fall.	Sun-shine to Sunset.	HUMIDITY %	SOUTH KENSINGTON (Meteorological Office).	
		Morning.	Afternoon.	Night.						
		24 HOUR ENDED VH G.M.T. 27 th								
Greenwich (Royal Observatory) ...	c.b.b	b.bcc	a.ad	54	42	35	-	3.7	89	92
City (Bunhill Row) ...	*	*	*	*	*	*	*	*	*	*
Westminster (St. James's Park) ...	*	*	*	*	*	*	*	*	*	*
Regents Park (Botanical Gardens) ...	*	*	*	*	*	*	*	0.0	*	*
Camden Sq. (British Rail) ...	-	-	*	53	42	36	1	*	*	*
Kensington Palace ...	*	*	*	55	44	37	1	*	94(18h)	93
Hampstead Observatory ...	*	*	*	*	*	*	*	*	*	*

Photographic Record of
Pole Star (Polaris) and of 3 Ursae
Minoris at Greenwich Observatory.

Exposure from ... h ... m ...
to ... h ... m ...

Stars. Duration of
Exposure. Duration of
Records.

Polaris & Ursae Minoris. h m. h. m. %

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to 50° or above at nearly all stations, to 55° or 56° at a few stations, and to 57° at South Franborough. Rain fell in most localities, but the quantity was slight generally except in the South of Ireland; at Valencia the amount was 19mm. Bright sun shine ranged from 5.3 hours at Yarmouth, 4.9 hours at Liverpool and 4.7 hours at Cranwell to between 1 and 3 hours in most other parts of the Kingdom.

Information for these columns not usually received.

† Trace = rain has fallen but amount less than 0.1 mm.

BEAUFORT NOTATION.
b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog.
g gloom.
h hail.
l lightning.
m mist.
o overcast sky.
p passing showers.
q squalls.
r rain.
s sleet, i.e., rain and snow together.
s snow.
t thunder.
u ugly, threatening sky.
v unusual visibility.
w dew.
x hoar frost.
y dry air; humidity less than 60 per cent.
z dust haze; the turbid atmosphere of dry weather.

Capital letters indicate intensity, and repetition of letters continuity, thus:-

R = heavy rain.

rr = continuous moderate rain.

r.r = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.
Used only for surface observations.
Limits of Velocity at about 30 feet above ground.
No. Statute miles per hour. Metres per second.
0 Less than 1 Less than 0.8
1 1-8 0.8-1.6
2 4-7 1.6-2.8
3 8-13 2.8-5.4
4 12-18 5.4-7.9
5 19-24 7.9-10.7
6 25-31 10.8-13.8
7 32-38 13.9-17.1
8 39-46 17.2-20.7
9 47-54 20.8-24.4
10 55-63 24.5-28.6
11 64-75 28.6-33.6
12 Above 75 33.6 or above

SYMBOLS.

Aurora ☀ Solar halo ☀

Rime ☂ Lunar halo ☂

Glazed frost ☃ Solar corona ☃

Glazed roads ☃ Lunar corona ☃

Surface

8,000 feet

Surface

8,000 feet



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No.B.21586

TUESDAY, 28th DECEMBER... 1920.

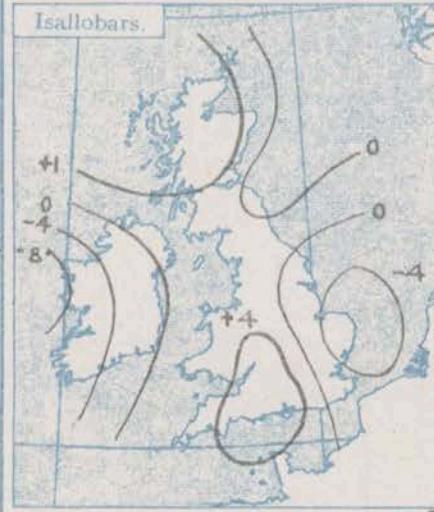
STATIONS.	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																										
	BAROM. at M.S.L. mb.	I Change in 3 hours.	WIND. Dir. Force 0-12.	Weather	TEMP. °F.	Humid. %	Visibil. 0-9.	Height of Low Cloud: Feet.	Low Cloud	Upper Cloud	Sea	BAROM. at M.S.L. mb.	I Change in 3 hours.	WIND. Dir. Force 0-12.	Weather	TEMP. °F.	Humid. %	Visibil. 0-9.	Height of Low Cloud: Feet.	Low Cloud	Upper Cloud	Sea					
13H. G.M.T. OF 27 th																											
Renfrew ...	994.5	-2	ESE	3	07023f	48	92	4	1250	NB	10	-	997.7	+3	SEW	3	C2f	48	85	5	2000	St	ASR	7			
Eskdalemuir ...	995.7	-1	S	4	odm	46	97	4	750	NB	10	-	994.4	+3	S	2	CW	42	92	5	500	St	-	7			
Valencia (Cahirc'n)	994.2	+	S	3	C	51	85	8	2,000	St	2	C.SI	6	4	995.6	+1	S	3	50	92	5	2,000	St	ASR	7		
Baldonnel ...	995.8	+2	SW	6	b2f	51	75	6	3,000	St.Cu	1	ASR	2	+	998.4	+3	S	4	60	86	6	3,000	St.Cu	ASR	2		
Manchester (Aero. Ph)	999.7	+2	SW	4	c	52	75	8	3,000	St.Cu	5	ASR	3	+	1001.8	+2	SSW	2	b2f	48	85	4	4,200	ScCa	-	2	
Ross on Wye ...	1002.2	+2	WNW	4	b2f	54	75	7	4200	Cu	4	-	1003.3	+1	SSW	3	opd.	51	85	6	1,250	Nb	-	-			
Falmouth ...	1002.4	0	SSW	4	b2f	54	85	5	-	St.Cu	6	-	1000.6	-2	SSE	5	opd.f	50	92	5	-	Mb	10	-	-		
Calshot (Hants) ...	1006.0	+2	SSW	4	cif	50	92	6	1250	St	3	C	3	3	1006.0	0	ASR	50	92	6	1,500	ScCa	B	3			
Lympne (Folkstone)	1006.4	+1	SW	5	cwg	50	92	7	750	St.Cu	8	-	1007.9	0	SSW	5	cwg	48	97	4	-	Nb	10	-	-		
Aberdeen ...	998.4	-4	SE	3	or	46	92	6	2,000	NB	10	-	997.7	0	SSE	2	or	46	92	5	2,000	Nb	-	-			
Howden ...	999.5	+1	SW	2	or	50	85	5	3,000	Br	4	ASR	3	+	1001.1	+1	SW	2	b2f	44	92	5	2,000	St	ASR	1	
Cranwell (Lincs) ...	1001.7	+1	SW	4	b2f	52	75	6	4,200	Cu	2	C.G.Cu	2	+	1004.1	+1	ESW	3	b	43	97	6	-	-	ASR	1	
Felixstowe ...	1005.8	0	SSW	3	b2f	49	85	7	2,000	Cu	1	ASR	1	2	1008.0	+2	SSW	3	b2f	46	92	6	3,000	Cu	-	-	
Shoeburyness ...	1005.1	+2	SW	3	b	53	85	7	-	-	-	ASR	1	3	1006.4	+1	SW	1	b2f	46	94	6	-	-	ASR	3	
Benson ...	1003.8	+2	SW	3	b	52	92	6	-	-	-	ASR	1	4	1004.8	0	SSW	3	b2f	48	92	6	-	Cu	4	-	-
S. Farnborough	1006.1	+2	SW	5	b	52	85	6	3,000	Cu	2	C	1	5	1006.1	+1	SW	4	b2f	49	97	5	1,250	St	5	-	
London (Kew Obey.)	1006.1	+2	SW	4	b2f	53	75	6	2,000	Cu	4	-	1006.4	0	S	3	b	50	85	5	-	ASR	2	-	-		
Croydon ...	1005.8	+2	WSW	5	b2f	53	75	6	2,000	Cu	4	-	1007.0	0	SSW	4	or	50	92	6	750	St	9	-	-		
1H. G.M.T. OF 28 th																											
Renfrew ...	1000.7	0	S	1	03f	44	97	2	-	St.Cu	9	-	1000.7	+1	0	Caf	36	97	2	-	-	ASR	7	+			
Eskdalemuir ...	1000.7	0	SSE	2	b2f	46	*	*	-	St.Cu	6	-	1000.8	0	N	2	om.0	39	97	5	-	-	ASR	10	*		
Valencia (Cahirc'n)	995.7	0	SSE	2	or	45	92	6	3,000	St.Cu	6	ASR	4	+	992.6	-4	SE	5	or	49	86	4	4,200	St	10	-	
Baldonnel ...	997.8	-1	E	1	or	45	92	6	-	St.Cu	6	-	997.9	0	-	0	or	47	92	1	750	St	10	-			
Manchester (Aero. Ph)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	998.2	-3	NB	4	or	47	86	3	3,000	St.Cu	9	-	
Ross on Wye ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	997.5	-6	H	3	or	48	97	6	750	St	10	-	
Falmouth ...	992.7	+1+3	WSW	8	b2f	50	92	8	-	St.Cu	2	-	1001.3	H	SW	3	C	49	92	7	1,250	St	2	ASR			
Calshot (Hants) ...	998.7	-6	SE	6	od	48	97	6	750	NB	10	-	1001.3	H	SW	6	b2f	49	85	7	1,250	St	2	ASR			
Lympne (Folkstone)	1003.8	-4	S	5	omR	47	97	5	-	Nb	10	-	1000.5	-2	SW	7	or	50	92	5	750	St	10	-			
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1001.4	+1	W	1	b2f	34	97	3	-	-	ASR	5	2
Howden ...	1002.1	0	-	0	omR	48	97	4	750	St	10	-	999.9	-1	ENE	2	omR	51	97	4	750	Nb	10	-			
Cranwell (Lincs) ...	1003.6	-1	SE	3	or	48	97	4	3,000	St	6	ASR	4	+	998.2	-6	E	3	or	46	97	4	750	Nb	10	ASR	
Felixstowe ...	1006.1	-3	SSE	3	or	45	97	6	1,250	NB	10	-	1000.3	-6	SSE	4	or	47	97	6	1,250	St.Cu	10	-			
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	998.4	-5	SW	7	or	51	85	7	2,000	Cu	7	ASR	
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	996.2	0	WSW	4	0	50	97	5	-	St	10	-	-
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	998.6	+4	HW	6	0	50	92	7	750	St	9	-	-
London (N. at 1H)	1002.1	-6	SSW	4	or	50	*	*	700	St	7	ASR	2	+	997.3	0	SW	5	or	50	92	5	750	Nb	10	-	
Croydon ...	1002.4	-6	SSW	4	or	49	92	4	700	St	7	ASR	2	+	999.1	+2	SW	6	or	50	85	7	750	Nb	10	-	
STATIONS CONTRIBUTING REPORTS AT 7H AND 13H.																											
STATIONS.	BAROM. at M.S.L. mb.	TEMP. °F.	Wind. Dir. Force 0-12.	Weather	BAROMETER. at M.S.L. mb.	TEMP. °F.	Wind. Dir. Force 0-12.	Wind. Dir. Force 0-12.	Weather	Rainfall mm.	Temp. Max. °F.	Min. °F.	Humid. %	Visibil. 0-9.	Height of Low Cloud: Feet.	Low Cloud	Upper Cloud	Sea	WEATHER.	Sunshins Hours.							
18H. G.M.T. of 27 th																				27 th							
Lerwick ...	1003.1	46	ESE	5	omwq	999.8	0	47	+3	-	0	-	50	43	Cq.	1	50	43	0.0m	0	0						
Stornoway ...	991.6	50	S	4	o	998.0	+1	44</																			

SUMMARY OF CONDITIONS AT 7 h.G.M.T 28.12.20.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Squally, rainy, misty.	Fair.	R. Rough
2. E. England	Squally, rainy, misty.	"	Slight
3. E. Midlands	Rainy, misty.	Poor.	-
4. W. Midlands	Dull.	"	-
5. S.W. England	Dull.	Fair.	Mod.
6. South Wales	Fair.	Exclt.	"
7. North Wales	Gloomy.	V. Good	Calm.
8. N.W. England	Dull.	Fair.	Smooth
9. N. Midlands	Dull, misty, rainy.	Poor.	-
10. N.E. England	Foggy.	Bad.	Smooth
11. E. Scotland	Fine, foggy, frosty.	V. Poor	Smooth
12. S.W. Scotland	Dull, misty.	Indif.	"
13. Isle of Man	Coudy, misty.	Fair.	"
14. N. & N.W. Scotland	Fine.	Good.	V. Smooth
15. Hebrides	Fine.	"	"
16. Orkneys and Shetlands	Dull, misty.	Fair.	"
17. N.W. Ireland	-	"	-
18. N.E. Ireland	Cloudy, misty.	Fair.	Smooth
19. S.E. Ireland	Dull.	Fair.	Mod.
20. S.W. Ireland	Heavy rain.	Poor.	-

Temperature reported from Coastal and Cross Channel Steamers.

Position Number	Date	Time G.M.T.	Sea °F	Air °F
5.	27 th	08.00	50	49
3.	"	10.00	51	51
6.	28 th	15.00	50	52
7.	"	03.00	49	53



Barometric change from 4 h. to 7 h. (half millibars).

GENERAL INFERENCE from observations received up to 9h.

A trough of low pressure extends from Wales to the South-East of England while another depression is already spreading over Ireland from the Atlantic. Unsettled weather is likely to continue over the Kingdom generally, with South and South-West winds and a high temperature in the South, but with South-East to East winds and a lower temperature in the North.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T.
1. S.E. England	
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	Wind mainly between South and South-West, moderate or fresh; much cloud generally, some rain or showers; fairer intervals; visibility indifferent to fair. Mild.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	Wind between South and East, light or moderate, cloudy or overcast, some rain; visibility indifferent to fair. Moderate or mild temperature.
13. Isle of Man	
14. N. & N.W. Scotland	
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	Wind South or South-East, veering to South-West or West, strong at times. Mainly overcast, intermittent rain. Visibility variable. Temperature moderate or rather high.

Temperature will become less high than of late but will continue above the normal.

Further Outlook.

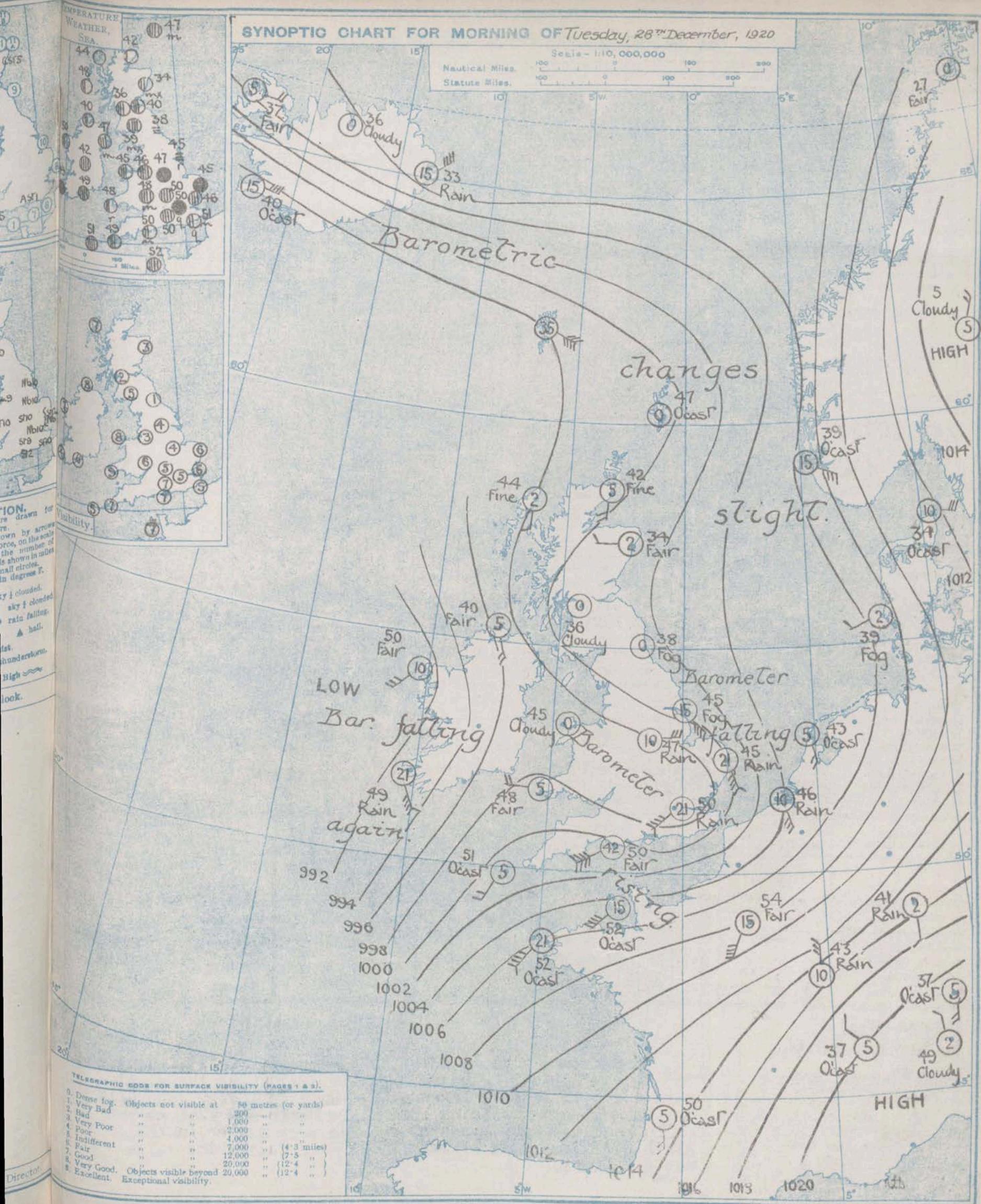


EXPLANATION.
BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE. is given in degrees F.
WEATHER SYMBOLS.

- clear sky.
- sky + clouded.
- overcast sky.
- * snow.
- sleet.
- ≡ fog.
- △ thunder.
- rain falling.
- mist.
- thunderstorm.

SEA DISTURBANCE. High





AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 363.

Tuesday
28th DECEMBER

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 21 st																	
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.	WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 18h-9h.	Day. 9h-18h.	Sunrise to Sunset. 27 th	27 th		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 18h-9h.	Day. 9h-18h.	Sunrise to Sunset. 27 th
Scotland.	Oban	at	at	53	45	4	13	0.0	0.0	Douglas (I.O.M.)	c	bc	50	45	?	-	0.8
	Banff	at	at	47	35	0.2	0.4			Blackpool	c.o.c	c b b b	53	45	-	-	2.1
	Montrose									Southport							
	St. Andrews									MORECAMBE							
England, N.E.	Harrogate	c	c	49	40	0.1	-	0.0		Buxton	c. b	o	54	43	2	-	4.0
	Scarborough									Leamington Spa							
	Skegness									Malvern							
	Lowestoft									Bath	b. bc	pc b c b	54	48	2	1	1.8
England, S.E.	Felixstowe	at	bc	50	39	0.4	-			Rhyl							
	Southend-on-Sea	b	bc	52	42	-	-	3.1	3.5	Colwyn Bay							
	Tunbridge Wells	o.c.b.c.	o.o.p	53	44	2	2	1.1		Llandudno	a.c.	b. bc	53	44	1	-	3.6
	Margate	c.	bc	55	46	-	-	0.9		Aberystwyth	t.c.	c.o	52	48	1	-	1.0
	Ramsgate	*	*	52	43	-	-	2.5		Tenby							
	Folkestone									Swansea							
	Hastings	o.b.c.c	bc o.p	53	47	0.4	1	1.6		Weymouth	bc. b. bc	c. bc. o	54	48	3	-	1.7
	Eastbourne	o.c.b.c	c.o.d.o	53	45	1	1	2.2		Teignmouth							
	Brighton	b.c.c.o	c.o	51	48	1	-	2.1		Torquay	bc	bc. o	54	50	3	3	2.0
	Worthing	b. bc	bc. c	51	47	2	1	2.9		Paignton	bop	corqp	54	49	2	5	0.7
	Littlehampton									Penzance	c.o	c.o.p	56	51	1	0.2	0.9
	Portsmouth (S. Head)									Newquay	c	o.o.p	53	50	1	1	0.1
	Bournemouth	*	*	53	47	3	-	1.8		Bude							
	Ventnor (I. of W.)	*	*							Ilfracombe	b.c.c.o	oe	54	50	1	-	0.4
										Weston-s-Mare	bc	bc.c	55	48	2	-	1.7

STATIONS.	SUMMARIES FOR PAST 24 HOURS.										
	WEATHER.				Max. Temp. F.	Min. Temp. F.	Min. on Grass F.	RAINFALL,			Sun. Hours.
	7h-18h ²⁷	18h-18h ²⁷	18h ²⁷ -1h ²⁸	1h-7h ²⁸				Day. 7h-18h	Night. 18h-7h		
Renfrew ...	02f.10d	03f.Dccsf	bccsf	bccsf	50	36	29	mm.	mm.	0.0	
Eskdalemuir ...	rr.0d	D.D.c.s	b.c.	c.0f	46	38	35	45	0.2	0.0	
Valencia (Cahirc'm)	bccpo	copo	ccbbcc	bcc.c.c	53	44	38	-	6	11	
Baldonnel ...	bcggbbaf	b.bcc	c.0.0	0sf	52	44	37	0.2	0.2	47	
Manchester (Alder Pk)	cslpcsf	b.bcc.b	b.0.0f	ccsf.R.R.a	53	44	33	trace	4	*	
Ross on Wye ...	bcsg.fbbcc	bcgccc	c.0.rr	R.R.R	54	48	42	0.2	11	3.4	
Falmouth ...	bbcc.bccsf	bcxsf	ornccab	b.bcc	56	47	43	3	8	0.8	
Calshot (Hants) ...	p.bcc	tf.c.o	slsf.psf	rnccsf	53	47	46	0.2	3	3.1	
Lympne (Folkestone)	oifco.g	bcclsfym	oif.P	P.0sf.fq	51	47	46	1	6	0.7	
Aberdeen ...	gg.rr.	r.0.0f	oif.2sf	2sf.4sfcc	47	34	28	3	-	0.0	
Howden ...	1R. r.0	lfe.b.o	cc.c.o	rr.0	51	38	31	1	3	0.0	
Cranwell (Lines) ...	f.c.o	b.bcc	cc.c.o	0.rr.	53	40	38	0.2	6	2.7	
Felixstowe ...	sf.b.bcc	sf.b.bcc	po.0if	R.R.R	50	42	?	-	3	3.1	
Shoeburyness ...	b.bcc	b.bcc	b.bcc.c	f.g	54	44	41	trace	3	3.4	
Benson ...	r.b	b	o	r.	55	47	42	1	4	*	
S. Farnborough	dd.bcc	c.0sf.bccsf	bcgpf	c.0.f	53	48	46	1	3	2.3	
London (Kew Observatory)	oifpo.bccsf	b.bccsf	bcgccc	oif.1sf.g	53	49	44	0.1	2	2.3	
Croydon ...	oifso.0cc	c.0sf.psf	oifsf.oif	oif.1sf.0sf	54	48	*	0.4	3	*	

BEAUFORT NOTATION.	
b	blue sky (not more than a quarter covered).
c	sky partly cloudy (one half covered).
d	generally cloudy (three quarters covered).
d	drizale, or fine rain.
d	wet air without rain falling.
f	fog.
h	hail.
l	lightning.
m	mist.
o	overcast sky.
p	passing showers.
q	squalls.
r	rain.
s	sleet, i.e., rain and snow together.
s	snow.
t	thunder.
u	ugly, threatening sky.
v	unusual visibility.
w	dew.
w	x hoar frost.
y	dry air; humidity less than 60 per cent.
z	dust haze; the turbid atmosphere of dry weather.

THE BEAUFORT SCALE OF WIND FORCE.		
No.	Used only for surface observations.	
	Statute miles per hour.	Limits of Velocity at about 30 feet above ground.
0	Less than 1	Less than 0°8
1	1- 3	0°8- 1°5
2	4- 7	1°6- 2°2
3	8-12	2°4- 3°4
4	13-18	3°5- 7°9
5	19-24	8°0- 10°7
6	25-31	10°8- 12°8
7	32-38	13°2- 17°1
8	39-46	17°2- 21°7
9	47-54	20°8- 24°8
10	55-62	24°5- 28°4
11	63-75	28°5- 32°5
12	Above 75	33°6 or above

SYMBOL

Aurora	\odot	Solar halo
Rime	\sqcap	Lunar halo
Glazed frost	\curvearrowleft	Solar corona
Glazed roads	\curvearrowright	Lunar corona

LONDON. OBSERVATIONS.	Morning.	WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rain- fall. mm.	Sun- shine to Sunset. Hours	HUMIDITY %	
		Afternoon.	Night.						15 h. G.M.T.	9 h. G.M.T.
24 HOURS ENDED IN G.M.T. 2.8°										
Greenwich (Royal Observatory)	0 c b c	c.0	0d.	55	48	43	2	3.4	85	81
City (Bunhill Row)	+	+	+	*	*	*	*	1.2	*	*
Westminster (St. James's Park)	*	*	+	56	49	43	2	2.2	74	78
Regent's Park (Botanical Glade)	+	8	8	4	3	*	2	0.5	2	1
Camden Sq. (British Rainfall)	-	-	-	54	49	46	2	-	-	85
Kensington Palace	bc	bc	-	55	48	45	2	-	93 (18h)	85
Hampstead Observatory	*	*	*	53	47	42	3	2.2	*	88

SOUTH KENSINGTON
(Meteorological Office).

TABLE SHOWING THE GREENWICH TIME OF
SUNRISE, NOON AND SUNSET FOR STATIONS
IN THE UNITED KINGDOM.

Stations.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Farmouth	8° 6'	11° 55'	3° 44'
	8° 6'	11° 53'	3° 55'
Greenwich	8° 8'	12° 2'	3° 56'
	8° 8'	12° 2'	3° 57'
Vick	9° 5'	12° 14'	3° 23'
	9° 5'	12° 14'	3° 23'
Alencia	8° 51'	12° 42'	4° 34'
	8° 51'	12° 42'	4° 35'

Photographic Record of

Pole Star (Polaris) and of δ Ursae

Minoria at Greenwich Observatory

Exposure from 27° 17' h. to m.
to 38° 7' h. : m.

Star.	Duration of Exposure.	Duration of Record.
Polaris	h. m. 14. 0	h. m. 2. 6
δ Ursae Minoris	h. m. 19. 0	h. m. 1. 15
		% 15 9

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to above 50° generally, and to about 55° at many places. The minimum readings during the night were above 45° over a large area. Rain fell very generally the largest amounts being 18mm at Pembroke and 12mm at Spurn Head. Bright sunshine records were higher in the South and West than elsewhere; at Birr Castle the value was 4.7 hours.

* Information for these columns not usually received.

[†] Trace = rain has fallen but amount less than 0.1 mm.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON

BRITISH SECTION.

No. B.21587

WEDNESDAY...29TH. DECEMBER.....1920

STATIONS.		OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H., 7H., 18H. AND 24H.																												
		BAROM. at M.S.L. mb.	I Change in 8 hours.	WIND.		TEMP. °F.	Humid. %	Visibil. 0-9.	Height of Low Cloud, Feet.	Low Cloud		Upper Cloud		Sea	BAROM. at M.S.L. mb.	I Change in 8 hours.	WIND.		TEMP. °F.	Humid. %	Visibil. 0-9.	Height of Low Cloud, Feet.	Low Cloud		Upper Cloud		Sea			
				Dir.	Force 0-12.					Form.	Amt. 0-10.	Form.	Amt. 0-10.				Dir.	Force 0-12.					Form.	Amt. 0-10.	Form.	Amt. 0-10.				
18H. G.M.T. OF 28 th																														
Renfrew ...	999.7	-1	ENE	1	03f	37	97	2	4200	Sig.	5	AS	5	-	994.7	+2	SSE	1	044.5f	42	97	2	-	NB	10	-	-	-		
Eskdalemuir ...	999.1	-2	NE	2	02f	48	97	5	-	Sig.	10	-	-	-	998.6	-	N	1	012.5f	42	97	4	-	NB	10	-	-	-		
Valencia (Cahirc'a)	994.9	+5	SSW	3	8	53	85	8	4000	Cu	3	-	-	-	993.3	+1	S	5	86	78	51	66	6	-	2000	Sig.	5	-	-	
Baldonnel ...	996.5	-1	SSW	5	01g	49	85	8	3800	Sig.	18	4	-	-	1001.2	+6	SSW	3	87	65	6	-	1000	Sig.	5	-	-			
MANCHESTER (Alleyne)	999.2	-1	S	3	02f	48	92	4	750	Sig.	9	-	-	-	1001.2	+3	SSE	5	03f	49	95	3	-	2000	Sig.	10	-	-		
Ross on Wye ...	1001.3	+2	WSW	4	06	48	92	7	1250	16	4	-	-	-	1005.2	+7	W	5	07g	31	95	8	-	2000	Cu	1	-	-		
Falmouth ...	1004.4	-4	SW	7	eg	58	85	6	-	Sig.	7	AS	1	-	1008.6	+4	SW	4	6	53	92	6	-	Sig.	Y	-	-	-		
Calshot (Hants) ...	1005.2	+3	SW	5	012.5f	52	97	3	2800	Sig.	10	-	-	-	1008.9	+5	SW	4	8if	50	97	6	-	1000	Sig.	3	-	-		
Lympne (Folkestone)	1005.0	+6	Sed	6	03m	51	97	7	750	NB	10	-	-	-	1007.6	+2	WSW	7	cang	51	97	7	-	1250	Sig.	Y	-	-		
Aberdeen ...	1001.6	0	Www	1	bc3fc	37	92	2	4100	Sig.	5	-	-	-	1000.7	-1	Www	2	05fc	39	97	1	-	-	-	-	-	-	-	
Howden ...	999.1	0	S	1	2	45	97	1	70082	70810	-	-	-	-	999.1	0	Sw	3	028f	45	92	1	-	100	NB	10	-	-		
Cranwell (Lincs) ...	1000.1	+1	SW	3	02f	49	97	5	750	Sig.	10	-	-	-	1001.5	+1	SW	4	3	49	92	5	-	1250	Sig.	1	-	-		
Felixstowe ...	1003.4	+4	SW	6	01f	50	85	6	250	Sig.	10	-	-	-	1005.5	+2	SSW	4	8if	50	92	6	-	-	-	-	-	-		
Shoeburyness ...	1008.6	-5	W	4	bc	52	97	7	3000	Sig.	6	-	-	-	1009.8	+8	SW	3	50	85	6	-	-	-	-	-	-			
Benson ...	1008.8	+2	SSW	2	4	52	85	8	2000	Sig.	9	AS	1	-	1007.0	+4	SW	5	8	50	92	7	-	-	-	-	-			
S. Farnborough	1008.8	+8	SW	3	0	53	85	8	3000	Cu	9	-	-	-	1006.6	+5	SW	3	8	52	85	6	-	-	-	-	-			
London (Kew Obsy.)	1008.9	+8	SW	4	0	53	98	6	3000	Sig.	9	-	-	-	1004.2	+4	SW	6	8if	52	92	6	-	-	-	-	-	-		
Croydon ...	1004.5	+6	WSW	6	01g	53	85	7	3000	Sig.	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1H. G.M.T. OF 29 th																														
Renfrew ...	1002.0	+6	SW	4	02f	43	97	5	1250	Sig.	10	-	-	-	1003.6	0	SSE	2	01f	44	97	6	-	2000	Sig.	9	-	-		
Eskdalemuir ...	1002.0	+6	SW	4	C	49	86	5	-	-	-	-	-	-	1004.2	-1	SW	4	02m	46	97	3	750	Sig.	10	-	-			
Valencia (Cahirc'a)	1003.8	+1	SSH	4	C	49	86	5	-	-	-	-	-	-	1003.6	0	S	3	0	50	92	5	-	2000	Sig.	6	AS	6		
Baldonnel ...	1003.8	+1	SSH	4	C	49	86	5	-	-	-	-	-	-	1004.5	0	SW	4	09	49	85	5	-	2000	Sig.	6	AS	4		
MANCHESTER (Alleyne)	998.7	0	W	4	*	*	*	*	*	*	*	*	*	*	1007.4	0	SSE	4	02f	49	85	4	1250	NB	10	-	-			
Ross on Wye ...	998.7	0	W	4	*	*	*	*	*	*	*	*	*	*	1009.5	0	W	2	0	48	92	7	-	2000	NB	9	RST	1		
Falmouth ...	1010.0	0	SSW	5	0	52	97	7	-	Sig.	10	-	-	-	1008.1	-2	SSH	2	02o	51	91	2	-	NB	10	-	-	-		
Calshot (Hants)...	1012.4	+1	SW	3	01f	51	92	6	750	Sig.	10	-	-	-	1011.7	-1	O	0	0	49	97	6	-	1250	Sig.	10	-	-		
Lympne (Folkestone)	1012.7	+4	WSN	3	Orn	49	92	6	3000	Sig.	9	-	-	-	1013.1	0	SW	4	02f	49	97	2	-	1250	NB	10	-	-		
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.1	H	-	0	bc3fc	38	92	3	-	-	-	-	-	AS	4	
Howden ...	1006.6	+4	-	0	C	41	92	4	3000	Sig.	6	AS	2	-	1004.2	0	S	3	0m9	43	94	4	-	3000	Sig.	10	-	-		
Cranwell (Lincs) ...	1007.8	+2	WSW	#3	b	45	92	5	3000	Sig.	3	-	-	-	1009.7	+1	SW	2	0	46	97	5	3000	Sig.	2	G.Cu	7			
Felixstowe ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.7	H	S	3	01f	47	97	7	-	2000	Sig.	10	-	-		
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.3	O	SW	3	02o	48	92	6	3000	Cu	8	-	-			
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.1	-1	SE	3	0	48	97	6	-	St	10	-	-	-		
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.7	O	SSE	1	01o	50	97	5	-	1250	NB	10	-	-		
London (M.O. at 1 st)	1011.1	+2	W	5	*	49	86	7	-	-	-	-	-	-	1012.1	O	SSH	2	01o	50	92	6	750	NB	10	-	-			
Croydon ...	1012.3	+2	SW	5	01f	49	92	7	-	-	-	-	-	-	1012.6	O	S	3	02f	50	97	5	1250	Sig.	10	-	-			
STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.																														
STATIONS.		BAROM. at M.S.L. mb.	TEMP. °F.	WIND.		Weather	BAROMETER.		TEMPERATURE.	WIND.		Dir.	Force 0-12.	Wind.	Dir.	Force 0-12.	Wind.	Dir.	Sea	Rainfall	10mm.	Max. °F.	Min. °F.	Morn.	Afternoon	Night.	Sunshine Hours.			
		at M.S.L. mb.	I Change in 8 hours.	Temp.	Change in 24 hours.	Wind.	at M.S.L. mb.	Temp.	°F.	Wind.	Dir.	Force 0-12.	Wind.	Dir.	Force 0-12.	Wind.	Dir.	Sea	0-9.	mm.	Max. °F.	Min. °F.	Morn.	Afternoon	Night.					
		mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.			
18H. G.M.T. of 28 th																														
Lerwick ...	1002.1	44	-	0	6	1005.2	+1	46	-1	SSE	2	-	C	1	1	50	43	bc	6	bc	bc	bc	0.3	0.3	0.3	0.3	0.3	0.3		
Stornoway ...	998.1	38	-	0	36	999.3	0	46	+2	S	2	-	O	1	1	46	35	c	3	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	
Castlebay(Barris)	997.1	48	E	3	0f	999.7	0	49	+1	S	4	-	op	4	2	49	46	-bc	0.0	op	op	op	op	op	op	op	op	op	op	
Malin Head ...	996.9	45	S	1	0	999.8	0	44	+4	S	2	-	b	2	1	45	40	om	3	om	om	om	om	om	om	om	om	om	om	om
Black sod Point	995.0	50	SW	2	bc	1000.1	+3	49	-	SW	3	-	bc	3	-	46	43</td													

Information for these columns not usually received

* The barometric change is expressed in half millibars.

For code see page

1. Sua fonte e:

SUMMARY OF CONDITIONS AT 7 h.G.M. 29.12.20.

Districts	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, misty, rainy.	Indiff.	Slight
2. E. England	Dull, misty.	Fair.	Smooth
3. E. Midlands	Overcast.	Indiff.	-
4. W. Midlands	Squally, misty,	Poor.	-
5. S.W. England	Dull, rainy.	"	Slight
6. South Wales	Dull, misty.	V. Good.	Mod.
7. North Wales	Showery, misty.	Fair.	Smooth
8. N.W. England	Squally, misty.	Poor.	Slight
9. N. Midlands	Dull.	Fair.	-
10. N.E. England	Cloudy, misty.	V. Poor.	Smooth
11. E. Scotland	Fair to dull, some fog.	V. Poor.	Smooth
12. S.W. Scotland	Dull, drizzle, misty.	"	V. Smooth
13. Isle of Man	Fair, misty.	Good.	"
14. N & N.W. Scotland	Drizzle, misty.	Indiff.	Smooth
15. Hebrides	Dull, showery.	Fair.	"
16. Orkneys and Shetlands	Cloudy.	Indiff.	V. Smooth
17. N.W. Ireland	- - -	-	-
18. N.E. Ireland	Fair, misty.	Good.	V. Smooth
19. S.E. Ireland	Dull.	Indiff.	Mod.
20. S.W. Ireland	Dull.	"	-

Temperature reported from Coastal and Cross Channel Steamers

Position-Number	Date	Time G.M.T.	Sea °F	Air °F
12.	28 th	05.20	53	49
5.	"	08.08.	50	47
3.	"	10.00	51	50
1.	"	12.10	51.75	54
4A.	28 th	03.40	47	50
7.	"	03.55	50	53



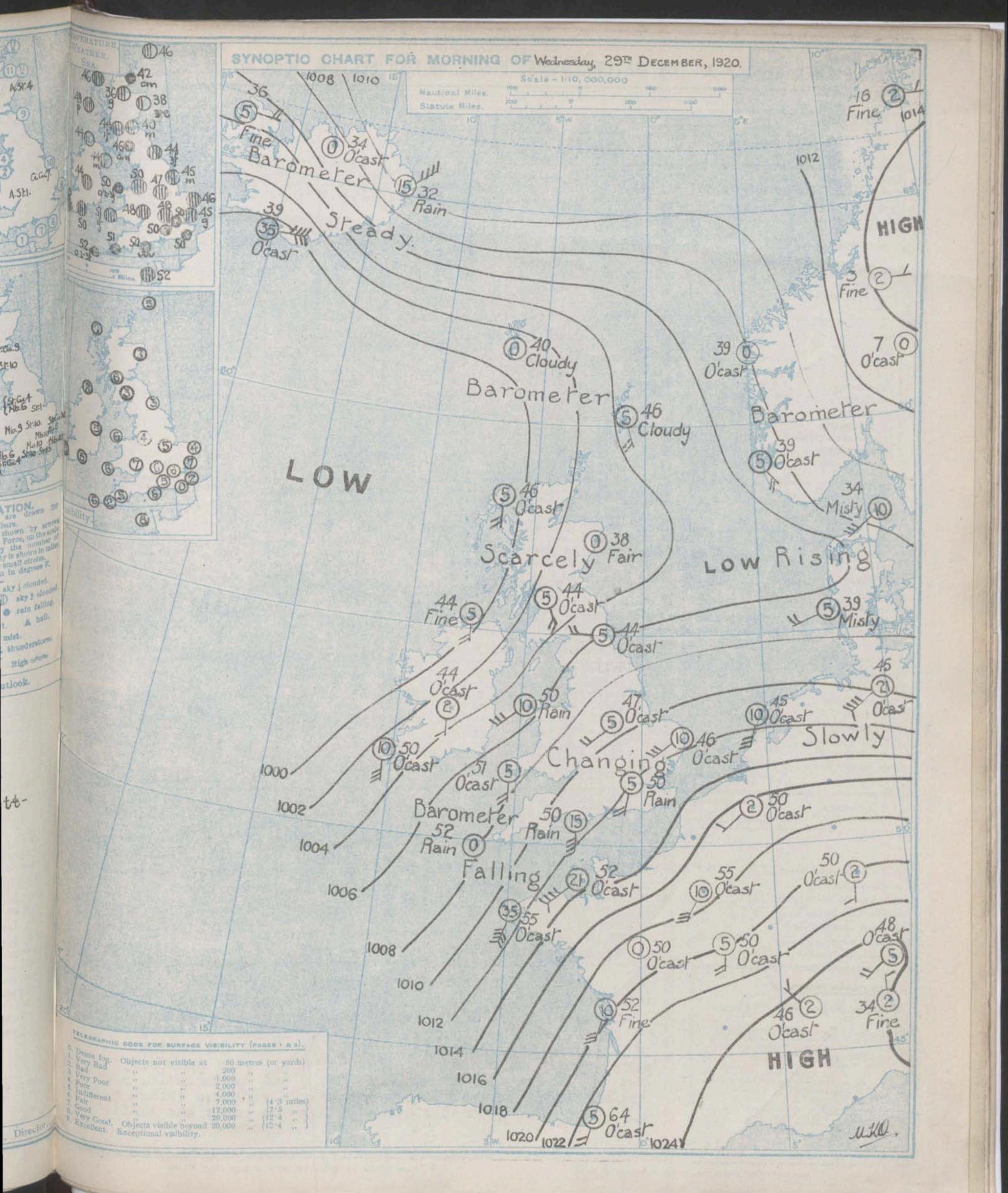
Barometric change from 4 h. to 7 h. (half millibars).

GENERAL INFERENCE from observations received up to 9h.

The changes in barometric pressure are now slight, but the general distribution continues favourable for Southerly and South-Westerly winds and for the approach of further depressions from the Atlantic. Mild, unsettled weather is consequently still probable for some days.

EXPLANATION.
 BAROMETER.—Isallobars are drawn at intervals of two millibars.
 WIND.—Direction is shown by arrows flying with the wind. Force on the scale 0-12 is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
 TEMPERATURE is given in degrees F.
 WEATHER SYMBOLS.—
 ☀ clear sky.
 ☁ sky 1/2 clouded.
 ☁ sky 3/4 clouded.
 ☁ overcast sky.
 * snow.
 ☰ sleet.
 △ hail.
 ☛ fog.
 ☛ mist.
 T thunder.
 R thunderstorm.
 SEA DISTURBANCES.—
 Rough. High.

Districts	Forecasts for the 24 hours commencing 15 h. G.M.T. Wednesday 29th December 1920.	Further Outlook.
1. S.E. England		
2. E. England		
3. E. Midlands		
4. W. Midlands		
5. S.W. England	Wind South or South-West, light or moderate; much cloud generally, some rain or showers, fairer intervals. Visibility indifferent to fair. Mild.	Wind South or South-West, unsettled, mild weather.
6. South Wales		
7. North Wales		
8. N.W. England		
9. N. Midlands		
10. N.E. England		
11. E. Scotland		
12. S.W. Scotland	Wind South or South-East, light or moderate; cloudy or overcast, some rain. Visibility indifferent to fair. Mild.	
13. Isle of Man		
14. N & N.W. Scotland		
15. Hebrides		
16. Orkneys and Shetlands		
17. N.W. Ireland	Wind South or South-West, light to fresh or strong. Much cloud, occasional rain. Visibility indifferent to fair. Mild.	
18. N.E. Ireland		
19. S.E. Ireland		
20. S.W. Ireland		



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. NO. 264.

WEDNESDAY
29th Decth 1920

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 28 TH																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 16h-18h.	Day. 18h-19h.	Sunrise to Sunset. 25 th	25 th			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 17h-18h.	Day. 18h-19h.	Sunrise to Sunset. 25 th	
Scotland.	Oban	bc	c. o	49	38	-	-	0-1		England, N.W.	Douglas (I.O.M.)								0-0
	Banff	b. bc	b.c. o	48	36	1	-	2-9			Blackpool	0	0r ^a	48	44	-	5	3	0-0
	Montrose										Southport	0	0r. o.c	41	42	-	3	8	0-0
	St. Andrews										MORECAMBE	*	-5	49	42	-			
England, N.E.	Harrowgate	fr	rn	?	?	1	3	0-0		Midlands.	Buxton								0-6
	Scarborough	fg	ofr	48	44	-	2	0-0			Leamington Spa	o. c. b	b. h. o	52	49	6	2		
	Skegness										Malvern								3-0
	Lowestoft										Bath	bc. b	b. bc. c	56	48	7	-		
England, S.E.	Felixstowe	ond	on	?	42	3	-	0-0		Wales.	Rhyl	c	cr	51	43	1	-		0-5
	Southend-on-Sea	bc	bc	52	45	4	-	2-5			Colwyn Bay	s	s	52	49	-	4	0-2	0-5
	Tunbridge Wells	o. c. bc	od. o. c	53	47	5	0-4	1-9			Llãndudno	or	r. c	53	44	0-1	3	0-3	0-2
England, S.W.	Margate	o. bc	bc. c	53	47	5	-	2-3			Aberystwyth	o. or	o. o. o	57	48	12	4	0-3	0-3
	Ramsgate	*	*	53	41	5	-	2-4			Tenby								
	Folkestone	ro	or. o	53	47	7	0-4	1-6			Swansea								
	Hastings	c. o	od. o	53	48	7	1	0-0		England, S.W.	Weymouth	bc. o. c	c. bc. b	58	49	5	0-4	0-2	
	Eastbourne	ood. o	or. o. o	54	48	7	0-3	0-9			Teignmouth								
	Brighton	b. bc. om	or	51	49	6	1	0-9			Torquay	o. bc. r	o	55	48	7	3	0-4	0-1
	Worthing	bc. c	cr. c	51	49	6	0-1	1-6			Paignton	op	op. c. b	56	48	8	0-4	0-1	
	Littlehampton	bc. r	om	57	48	6	1	2-2			Penzance								
	Portsmouth (S'thsea)	s	r	54	48	6	1	1-5			Newquay	ond. bc	b	55	48	8	0-3	1-6	
	Bournemouth	*	*	53	48	5	1	0-8			Bude	b	b	56	49	4	-	2-0	
		*	*								Iffracombe								
		*	*								Weston-s-Mare	bc. b	bc. c	55	46				

RRco^{bcc}
Nc

STATIONS.	SUMMARIES FOR PAST 24 HOURS.										
	WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	RAINFALL.		Sun. Hours.	
	12h-13h25 ^m	13h-14h25 ^m	14h25 ^m -15h25 ^m	15h-16h25 ^m				Day.	Night.		
Renfrew ...	Sc. & o. b. - 8h 45-50	03f/04f sc. b. 03f	04f/05f sc. b. 04f	05f/06f sc. b. 05f	45	32	32	4m.	3m.	00	
Eskdalemuir ...	03f	04f/05f	04f/05f	05f/06f	46	39	34	10	3	0.0	
Valencia (Cahirc'h'n)	03f	04f/05f	04f/05f	05f/06f	52	45	43	6	8	2.5	
Baldonnel ...	03f	04f/05f	04f/05f	05f/06f	50	45	39	3	2	0.7	
MANCHESTER (Alex.)	03f. 03f	02fr	03f/04f b. 03f	04f/05f b. 04f	49	41	33	3	trace	4	
Ross on Wye ...	04f/05f	04f/05f	04f/05f	04f/05f	53	47	40	trace	-	1.4	
Falmouth ...	04f/05f	04f/05f	04f/05f	04f/05f	55	47	50	1	3	0.1	
Calshot (Hants) ...	04f/05f	04f/05f	04f/05f	04f/05f	53	48	46	1	1	1.0	
Lympne (Folkestone) ...	04f/05f	04f/05f	04f/05f	04f/05f	52	48	44	1	0.1	0.2	
Aberdeen ...	04f/05f	04f/05f	04f/05f	04f/05f	40	34	30	-	3	0.0	
Howden ...	04f/05f	R. r	b.c. b. 04f	04f/05f	00f	-	-	-	-	-	
Cranwell (Lincs) ...	04f/05f	04f/05f	04f/05f	04f/05f	51	45	43	2	-	0.0	
Felixstowe ...	04f/05f	04f/05f	04f/05f	04f/05f	53	45	42	-	-	0.0	
Shoeburyness ...	04f/05f	04f/05f	04f/05f	04f/05f	50	41	33	0.1	trace	2.9	
Benson ...	04f/05f	04f/05f	04f/05f	04f/05f	54	45	35	0.3	0.1	*	
S. Farnborough ...	04f/05f	04f/05f	04f/05f	04f/05f	54	47	44	0.1	0.1	3.0	
London (Kew Obsy.) ...	04f/05f	04f/05f	04f/05f	04f/05f	54	48	43	0.1	trace	2.0	
Croydon ...	04f/05f	04f/05f	04f/05f	04f/05f	54	48	42	trace	0.2	2	
LONDON OBSERVATIONS.		WEATHER.			Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rain- fall, mm.	Sun- shine to Sunset, Hours.	HUMIDITY %	
	Morning.	Afternoon.	Night.						15 a. G.M.T.	9 h. G.M.T.	
	24 HOURS ENDED 9H G.M.T. 29 th								YESTERDAY.		
									To-day		
Greenwich (Royal Observatory) ...	0.6.0	0.6.6	b. 0.1	55	48	42	1	2.0	87	96	
City (Bunhill Row) ...	*	*	*	*	*	*	*	1.8	*	*	
Westminster (St. James's Park) ...	*	*	b. 0.1	56	49	41	1	1.9	82	90	
REGENTS PARK (BOTANIC Gdns)	*	*	*	*	*	*	*	1.9	*	*	
Camden Sq. (British Rainfall) ...	-	-	*	55	47	41	0.3	*	-	94	
Kensington Palace ...	C.	b. 0.1	*	55	48	41	1	*	83 (18h)	96	
Hampstead Observatory ...	*	*	*	53	47	41	0.3	1.9	*	95	

Photographic Record of

Pole Star (Polaris) and of δ Ursae

Minoris at Greenwich Observatory.

Exposure from 28th 17 h. 0 m
to 29th 7 h. 0 m

Start. **Duration of** **Duration of**

	km.	hr.	m.	%
--	-----	-----	----	---

Polaris	14.	0	10.54	78
δ Ursae	17.	0	10.11	77

NOTES ON THE WEATHER OF YESTERDAY.

Temperature again exceeded 50° over the greater part of the Kingdom and touched 55° or 56° in some parts of Southern England. In the North of Scotland the maxima were lower - only 37° at Nairn. Rain fell very generally; 14mm at Valencia, 13mm at Birr Castle and Eskdalemuir, and 9mm at Tynemouth. At Scilly the bright sunshine record was 4.9 hours, but at most other stations the value was small.

* Information for these columns not usually received.

[†] Trace = rain has fallen but amount less than 0.1 mm.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No.B21588 THURSDAY...30TH DECEMBER...1920

STATIONS	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 12H AND 18H.																										
	BAROM. at M.S.L. mb.	↓ Change in 3 hours.	WIND.		Weather	TEMP. °F.	Humidity. % 3/4	Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud.		Upper Cloud		Sea	BAROM. at M.S.L. mb.	↓ Change in 3 hours.	WIND.		Weather	TEMP. °F.	Humidity. % 3/4	Visibility 0-9.	Height of Low Cloud. Feet.	Upper Cloud		Sea	
			Dir.	Force 0-12.						Form.	Amt. 0-10.	Form.	Amt. 0-10.				Dir.	Force 0-12.									
18H. G.M.T. 29 th																											
Renfrew ...	1005.5	+2	SW	N	024 ^f	48	85	4	2000	Sr Cu	6	C Sr	2	+ ESE	1004.1	-3	2	03 ^f	40	97	3	-	-	A Sr	10	7	
Eskdalemuir ...	1006.0	-1	SW	3	0	46	92	5	1200	Sr	6	A Sr	4	-	1004.9	-3	-	0	03 ^f	48	97	5	-	Sr	10	-	
Valencia (Cahirc'n)	1001.8	-4	SSW	3	05 ^f	49	86	7	2000	Sr	3	A S	7	-	997.9	-3	N	2	01 ^f	48	85	6	2000	Sr	10	-	
Baldonnel ...	1005.4	0	SSW	3	01 ^f	56	85	6	10000	Sr Cu	20	A S	8	*	1000.2	-5	NE	2	0R23f	46	92	3	750	Sr	10	-	
MANCHESTER (ALEX T)	1004.8	-1	SSW	3	024 ^f	49	85	4	1200	Sr	10	-	-	-	1003.9	-6	SSW	1	0R23f	47	92	8	750	NB	10	-	
Ross on Wye ...	1004.9	-2	E	1	0914-5 ^f	50	97	2	750	NB	10	-	-	-	1002.9	-5	SSW	6	0dg	52	92	7	1250	NB	9	A S	
Falmouth ...	1006.1	-3	SSW	6	06 ^f	54	97	6	-	NB	10	-	-	-	1003.8	-4	SSW	4	0d	54	97	4	-	NB	10	-	
Calshot (Hants) ...	1009.6	-3	SSW	6	0d	52	97	4	2500	NB	10	-	-	-	1008.5	-1	SSW	6	0R23f	52	97	4	2500	NB	10	-	
Lympne (Folkestone)	1011.6	-1	SSE	4	0D5f	49	97	1	<2000	NB	10	-	-	-	1009.6	-2	SW	5	0f	52	97	6	750	Sr	10	-	
Aberdeen ...	1005.0	+1	SSW	2	05f	48	92	3	-	-	-	-	-	-	1004.8	-1	-	0	03f	57	92	2	-	-	-	-	
Howden ...	1004.3	-2	-	0	0	48	92	4	2000	Sr Cu	5	C Cu	4	*	1005.7	-4	-	0	0123f	46	97	4	1250	NB	10	-	
Cranwell (Lincs) ...	1010.0	-1	S	3	024 ^f	50	92	5	1200	Sr	8	A S	7	*	1006.6	-7	SE	3	0d	48	97	2	2500	NB	10	-	
Felixstowe ...	1012.8	-1	SSA	2	0R23f	47	97	3	1200	NB	10	-	-	-	1009.8	-2	S	4	0R23f	49	97	3	1250	NB	10	-	
Shoeburyness ...	1011.8	-2	SE	1	0d	49	92	3	700	Sr	10	-	-	-	1008.4	-1	SW	5	03f	53	92	5	750	Cu	10	-	
Benson ...	1008.0	-4	SSE	3	0d	50	97	5	-	NB	10	-	-	-	1005.8	-3	SSW	4	0r	53	92	5	-	Sr	10	-	
S. Farnborough	1009.6	-4	S	2	0dm	51	97	4	<2000	NB	10	-	-	-	1004.0	-2	S	6	0dm	50	92	4	2500	NB	10	-	
London (Kew Obsy.)	1009.7	-5	SSE	2	0dm	52	97	4	1250	NB	8	A S	2	*	1007.6	-2	SSW	4	0dm	54	97	4	1250	NB	8	A S	
Croydon ...	1010.6	-4	S	2	024f	51	97	4	750	NB	10	-	-	-	1008.4	-2	S	6	0f	53	97	2	750	NB	10	-	
Renfrew ...																											
Eskdalemuir ...	995.9	-10	E	4	0R23f	40	92	4	-	NB	10	-	-	-	998.4	+4	-	0	02f	44	85	4	1200	Sr Cu	10	-	
Valencia (Cahirc'n)	999.0	+2	SSW	2	0914-3	47	*	*	*	*	*	*	*	*	995.2	+5	NE	5	0R23f	40	97	4	-	NB	10	-	
Baldonnel ...	997.6	+3	SSW	4	0R23f	44	97	4	<2000	Sr	10	-	-	-	1001.6	+1	S	3	0r	48	85	5	2000	Sr Cu	9	A S	
MANCHESTER (ALEX T)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.8	+5	-	0	01f	43	97	6	2000	Sr	10	-	
Ross on Wye ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.4	+3	H	6	0p23f	49	85	7	2000	NB	9	-	
Falmouth ...	1002.6	+3	SW	6	6	50	85	7	-	Sr Cu	1	C S	2	*	1009.0	+3	SW	3	.b	50	85	7	-	ACW	3	-	
Calshot (Hants) ...	1002.5	+2	SW	5	0R23f	52	97	4	<2000	NB	10	-	-	-	1010.0	+1	SW	6	C	49	92	6	2000	Sr Cu	3	A S	
Lympne (Folkestone)	1005.6	-4	S	7	0mng	52	85	7	150	Sr	10	-	-	-	1008.3	+2	SW	6	0mg	49	85	7	1250	Sr	9	-	
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	998.0	0	IV	3	0f	44	92	4	2000	NB	10	-	
Howden ...	995.8	-6	SSW	4	0m	52	97	5	3.000	Sr	10	-	-	-	996.0	-2	H	6	0g	47	92	4	1250	Sr Cu	10	-	
Cranwell (Lincs) ...	999.0	-5	W	4	R	52	97	3	750	Sr Cu	10	-	-	-	997.8	0	H	5	bc	47	95	6	3000	Sr Cu	4	-	
Felixstowe ...	1002.5	+2	SW	4	b	48	92	6	-	-	-	-	-	-	1005.0	-4	S	4	02f	49	95	4	4200	Sr	10	-	
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.9	+1	SW	6	b	50	75	7	-	-	Ci	1	-
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.5	+2	SW	5	b	48	85	8	-	Sr Cu	2	-	
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.3	+1	SW	6	b	48	85	6	2000	Sr	1	-	
London (M.O. at 1 st)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.7	+1	SW	4	b	50	85	7	-	-	A S	1	-
Croydon ...	1002.6	-3	S	7	02fgr	53	92	4	750	NB	10	-	-	-	1007.9	+2	H	5	0f	50	85	6	2000	Sr	1	A S	
7H. G.M.T. OF 30 th																											
1H. G.M.T. OF 30 th																											
STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 12H AND 18H.																											
STATIONS	BAROM. at M.S.L. mb.	TEMP. °F.	Wind.	Wind.	Barometer.	Barometer.	Temperature.	Temperature.	Wind.	Wind.	Dir.	Dir.	Wind.	Wind.	Rainfall	Temp.	Temp.	Wind.	Wind.	Wind.	Wind.	Wind.	Wind.	Wind.	Wind.	Sunshine Hours.	
Lerwick ...	1004.3	46	ESE	1	0	1002.9	-4	45	-1	SE	3	SE	0mR.	2	9	47	43	6.0	0	bcmon	46	36	0.0	bc	0.0	0.0	
Stornoway ...	1001.0	46	S	1	60	1000.5	+1	39	-7	0	0	-	6	0	4	47	36	0.p.c	bc	36	0.0	bc	0.0	0.0	0.0		
Castlebay (Barra Is)	1001.6	48	-	0	6	1000.6	0	45	-4	-	0	-	6	1	0.3	51	43	0p.6.6	bc	36	0.0	bc	0.0	0.0	0.0		
Malin Head ...	1000.8	44	S	1	om	1000.2	+2	44	0	ESE	1	-	om	1	-	46	41	bc	om	41	36	0.0	om	0.0	0.0		
Black sod Point	998.7	43	-	0	Cm	999.3	+3	44	-3	SSE	3	-	0	3	1	52	40	bc	om	40	36	0.0	om	0.0	0.0		
Roche's Point ...	999.4	46	NW	3	r	1004.2	+5	47	-3	SN	2	-	0	4	19	50	45	om	om	45	36	0.0	om	0.0	0.0		
Birr Castle ...	999.6	46	S	1	r	1001.7	-	43	-1	S	1	-	0	4	9	47	41	fo	fo	41	36	0.0	fo	0.0	0.0		
Donaghadee ...	1003.3	48	E	1	0	1000.7	+5	42	-2	N	2	N	bm	2	28	49	42	om	om	42	36	0.0	om	0.0	0.0		
Liverpool (Bidston)	1002.5	47	ESE	4	r	999.0	+4	45	-5	H	7	W	0g	5	15	51	44	om	om	44	36	0.0	om	0.0	0.0		
Holyhead ...	999.8	49	ENE	6	0R23f	1001.2	+7	46	-4	W	5	NW	cp	4	19	51	44	opdec	opdec								

Information for these columns not usually received.

The barometric change is expressed in half millibars.

For code see page 3

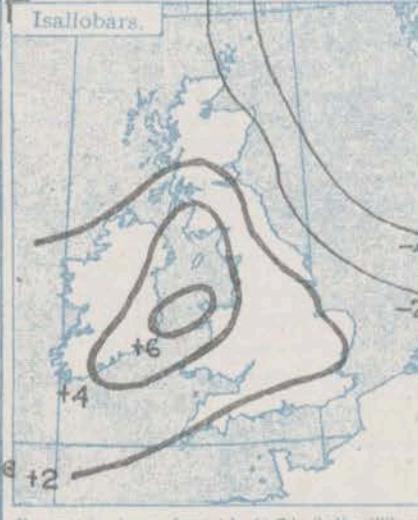
[†] See footnote p. 4.

SUMMARY OF CONDITIONS AT 7 h. G.M. 30.12.20.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Variable sky, squally.	Fair	R. rough
2. E. England	Fine	Good	Slight
3. E. Midlands	Fair	Fair	-
4. W. Midlands	Squally, misty.	Poor	-
5. S.W. England	Fine.	Good	R. rough
6. South Wales	Showery, squally.	V. good	Rough
7. North Wales	Showery, squally.	V. good	R. rough
8. N.W. England	Squally, misty.	Poor	Moderate
9. N. Midlands	Fine, squally.	Indiff.	-
10. N.E. England	Dull, misty, rainy.	Poor	Smooth
11. E. Scotland	Foggy, slight rain.	Poor	Smooth
12. S.W. Scotland	Dull, misty, rainy.	Poor	Smooth
13. Isle of Man	Fine, misty.	Good.	Smooth.
14. N. & N.W. Scotland	Dull.	Fair	Calm
15. Hebrides	Fine	Good	Calm
16. Orkneys and Shetlands	Dull, misty, rainy.	V. Poor	Smooth
17. N.W. Ireland	-	-	-
18. N.E. Ireland	Fine, misty.	Good	Smooth
19. S.E. Ireland	Dull.	Good	Moderate
20. S.W. Ireland	Dull, showery.	Indiff.	-

Temperature reported from Coastal and Cross Channel Steamers

Position-Number	Date	Time G.M.T.	Sea °F	Air °F
3.	29 th	10.00	50	52
6.	"	15.30	52	53
7.	30 th	02.54	50	52
4A.	"	04.00	50	47



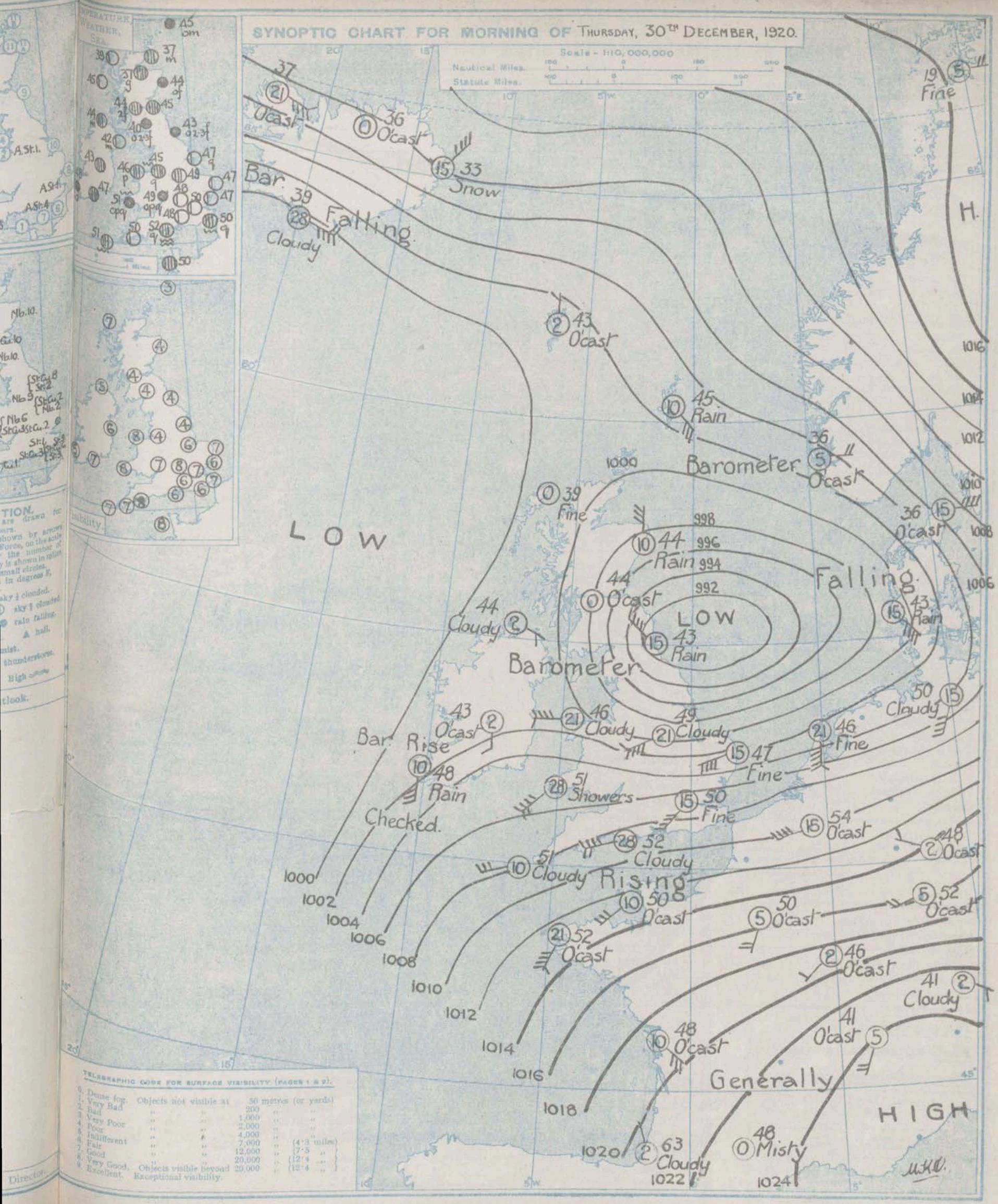
Barometric change from 4 h. to 7 h. (half millibars).

GENERAL INFERENCE from observations received up to 9h.

A depression centred off the NE of England will move away North-Eastward or Eastward, but as there are already some indications of the approach of another disturbance to Ireland, the mild, unsettled weather is still likely to continue.

EXPLANATION.
 BAROMETER.—ISALLOBARS are drawn for intervals of two millibars.
 WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
 TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.
 ☀ clear sky. ☁ sky 1 clouded.
 ☁ sky 2 clouded. ☁ overcast sky. ☂ rain falling.
 * snow. ☃ sleet. ☣ hail.
 ☵ fog. ☶ mist.
 T thunder. ☤ thunderstorm.
SEA DISTURBANCE.—
 Rough. ☰ High seas.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Thursday, 30th December 1920.	Further Outlook.
1. S.E. England	Wind between W & SW, moderate or fresh; variable sky, some showers; visibility mainly fair or good; mild.	Continuing mild and unsettled generally.
2. E. England		
3. E. Midlands		
4. W. Midlands		
5. S.W. England		
6. South Wales		
7. North Wales	Wind North-Westerly fresh or strong, backing to W or SW; variable sky, some showers, then dull, some rain; visibility fair; cooler, then milder.	
8. N.W. England		
9. N. Midlands		
10. N.E. England		
11. E. Scotland		
12. S.W. Scotland	Wind N or NW, shifting later to SE, moderate or light; much cloud, some rain; visibility indifferent to fair; moderate temperature.	
13. Isle of Man		
14. N. & N.W. Scotland		
15. Hebrides		
16. Orkneys and Shetlands		
17. N.W. Ireland		
18. N.E. Ireland		
19. S.E. Ireland		
20. S.W. Ireland	Wind mainly from between S & W, moderate to strong; mainly overcast, occasional rain; visibility indifferent to fair; mild.	K.S.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 260.

THURSDAY
30th DEC⁶ 1970

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 29 TH																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 10h-9h.	Day. 9h-18h.	Sunrise to Sunset.	29 th			Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 10h-9h.	Day. 9h-18h.	Sunrise to Sunset.	29 th
Scotland.	Oban	6c	6	46	42	6	-		0.0	Douglas (I.O.M.)									
	Banff	b	b	45	38	2	-		4.8	Blackpool	0	0r	49	43	1	1	0.0	0.0	
	Montrose									Southport	0	0r	48	42	2	2	0.0	0.0	
	St. Andrews	0	0	45	34	5	-		0.0	Morecambe	48	43	60	54	2	1	0.0	0.0	
England, N.E.	Harrogate	c.0	0r	49	42	2	0.4		0.0	Buxton									
	Scarborough	0	0	49	44	1	0.8		0.0	Leamington Spa	0.0	0r	51	46	-	8	0.0	0.0	
	Skegness	0r	0r	44	42	-	2		0.0	Malvern									
	Lowestoft									Bath	0	0r	55	44	-	3	0.0	0.0	
England, E.	Felixstowe	0m	0f. r	49	44	-	5		0.0	Rhyl	0r	r	51	46	3	9	0.0	0.0	
	Southend-on-Sea									Colwyn Bay	0	2	52	42	2	7	0.0	0.0	
	Tunbridge Wells	0.0d	0d	54	48	0.3	4		0.0	Llandudno	0	r	53	47	1	8	0.0	0.0	
England, S.E.	Margate	0r	0r	55	47	1	1		0.0	Aberystwyth	0.0r	11.0	51	47	-	9	0.0	0.0	
	Ramsgate	*	*	52	46	1	2		0.0	Tenby									
	Folkestone	10.10	10.10	50	48	1	2		0.0	Swansea									
	Hastings	0fm	0m*	53	49	1	2		0.0	Weymouth	m2	20	54	49	2	5	0.0	0.0	
	Eastbourne	10	10. c	53	49	2	3		0.0	Teignmouth									
	Brighton	0d	0d	53	50	1	2		0.0	Torquay	0. or	0d	55	50	2	8	0.0	0.0	
	Worthing	0d	d	52	48	1	3		0.0	Paignton	0d. fr	0r. 0g	55	49	3	9	0.0	0.0	
	Littlehampton	0m*	0r	52	47	1	3		0.0	Penzance	0r	0.0d	56	51	2	3	0.0	0.0	
	Portsmouth (S'theas)	*	*	54	48	1	3		0.0	Newquay	0.0m	0.0d	55	50	2	2	0.0	0.0	
	Bournemouth	*	*	53	48	1	5		0.0	Bude	0.0.0	0.0.0	56	48	1	3	0.0	0.0	
	Ventnor (I. of W.)	*	*	53	50	1	5		0.0	Ilfracombe	0r	0r	56	48	3	8	0.0	0.0	

STATIONS.	SUMMARIES FOR PAST 24 HOURS.												BEAUFORT NOTATION. b blue sky (not more than a quarter covered). bc sky partly cloudy (one half covered). c generally cloudy (three quarters covered). d drizzle, or fine rain. e wet air without rain falling. f fog. g gloom. h hail. l lightning. m mist. o overcast sky. p passing showers. q squalls. r rain. rs sleet, i.e., rain and snow together. s snow. t thunder. u ugly, threatening sky. v unusual visibility. w dew. x hoar frost. y dry air; humidity less than 60 per cent. z dust haze; the turbid atmosphere of dry weather.	THE BEAUFORT SCALE OF WIND FORCE. Used only for surface observations. Limits of Velocity at about 30 feet above ground.		
	WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	RAINFALL. †			Sun. Hours.					
	7h-18h. 28 ^m	18h-19h. 28 ^m	18h 29 ^m -19h 30 ^m	1h-7h 30 ^m				Day. 7h-18h.	Night. 18h-7h.	Hours.						
Renfrew ...	c.0.0.0.0.0.0	b.c.g.c.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	48	40	34	mev.	12	0.7						
Eskdalemuir ...	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	48	35	35	0.1	25	0.0						
Valencia (Cahirc'e)	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	51	46	43	4	6	0.0						
Baldonnel ...	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	50	42	40	0	9	0.0						
MANCHESTER (ALEX.)	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	54	41	40	4	8	+						
Ross on Wye ...	0.0.0.R.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	55	48	43	7	6	0.0						
Falmouth ...	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	54	49	47	4	5	0.0						
Calshot (Hants) ...	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	54	47	46	5	1	0.0						
Lympne (Folkestone) ...	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	53	48	46	3	-	0.0						
Aberdeen ...	3.0.0.0.0.0	3.0.0.0.0.0	3.0.0.0.0.0	0.0.0.0.0.0.0	44	35	30	-	0.3	2.8						
Howden ...	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	53	42	39	1	8	0.0						
Cranwell (Lincs) ...	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	54	46	45	3	87	0.0						
Felixstowe ...	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	50	45	*	5	trace	0.0						
Shoeburyness ...	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	54	47	45	5	0.2	0.0						
Benson ...	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	54	47	42	1	2	*						
S. Farnborough ...	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	53	49	44	3	1	0.0						
London (Kew Obsy.) ...	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	54	52	45	3	0.4	0.0						
Croydon ...	0.0.0.0.0.0	0.0.0.0.0.0	0.0.0.0.0.0.0	0.0.0.0.0.0.0	55	50	*	4	1	*						

LONDON. OBSERVATIONS	WEATHER- Morning.	WEATHER- Afternoon.	MAX. TEMP. °F.	MIN. TEMP. °F.	MIN. ON GRASS. °F.	RAINFALL, MM.	SUN- SHINE TO SUNSET. HOURS	HUMIDITY % 15 h. G.M.T.	9 h. G.M.T.	SOUTH KENSINGTON (Meteorological Office)	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.					
										YESTERDAY	TO-DAY	Vertical Component of	30 th & 31 st DECEMBER 1920.			
			34 HOURS ENDED 9h G.M.T. 30 th										Stations.	Sunrise.	Noon.	Sunset.

Solar Radiation per Square Centimetre during yesterday.											G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	Greenwich	Wick	Valencia										
Or. Or. Or. b 55 49 42 4 0.0 90 76													
City (Bunhill Row) ... * * * * * * * * * * * * *													
Westminster (St. James's Park) ... * * Or. b.c. 56 50 42 5 0.0 92 75													
Regents Pk. (Botanical Gardens) ... * * * * * * + 0.0 * * * * *													
Camden Sq. (British Rainfall) ... 00.0 Or. * 55 49 43 7 * 98 78	Total 68 Joules.												
Kensington Palace ... d.r 2.7 * 56 49 44 6 * 96 (18h) 78	Milliwatts.											Average Rate. 24	
Hampstead Observatory ... * * * 58 48 42 8 0.0 * 78	Maximum Rate. 5											Valencia ...	
												8.51	12.44
												8.57	12.44

Photographic Record of

Pole Star (Polaris) and of δ Ursae

Minoris at Greenwich Observatory.

Exposure from 28^{th} 17 h. 0 m.
to 30^{th} 7 h. 0 m.

Stars.	Duration of Exposure.	Duration of Record.
Polaris	h. m. 14. 0	h. m. 4. 8
δ Ursae Minoris.	14. 0	3. 11

NOTES ON THE WEATHER OF YESTERDAY.

Temperature remained below 50° over a large area in the North, but again rose to 50° or above in most parts of England, touching 55° or 56° at several stations. Rain fell in all districts; 28mm at Donaghadee, 25mm at Esdalemuir, and between 15 and 20mm in several other localities. As a whole there was no sunshine except in Scotland; at Banff the record was 4.8 hours.

† Trace = rain has fallen but amount less than 0.1 mm.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

No. B 21589

FRIDAY... 31st DECEMBER... 1920.

1000 hrs

TEMPERATURES

Min. °F.

Max. °F.

37

54

46

45

47

54

46

45

54

60

1C.

Sea

8-9.

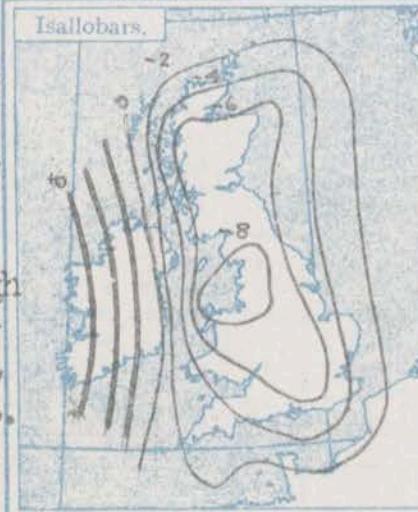
STATIONS.	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																										
	BAROM. at M.S.L. mb.	Wind. Change in 3 hours.	Wind. Dirac. Force 0-12.	Temp. °F.	Humidity. %	Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud.			Upper Cloud.			Sea	Barom. at M.S.L. mb.	Wind. Change in 3 hours.	Wind. Dirac. Force 0-12.	Temp. °F.	Humidity. %	Visibility 0-9.	Height of Low Cloud. Feet.	Upper Cloud.			Sea		
								Form.	Amt. 0-10.	Form.	Amt. 0-10.	Form.	Amt. 0-10.														
13H. G.M.T. of 30 th																											
Renfrew ...	1004.8	46	WSW	1	55	44	85	4	-	-	-	-	-	-	1005.7	47	-	0	62f	38	97	2	-	-	-	-	-
Eskdalemuir ...	1005.2	45	SW	1	0	44	85	6	-	Sr Gu	9	-	-	-	1007.0	47	-	0	02f	111	92	5	-	Sr Gu	10	-	-
Valencia (Cahircin)	999.7	44	S	5	C	62	85	7	2000	Sc Gu	6	A S	3	4	999.5	45	S	6	01	02	92	5	<500	Sc Gu	10	-	-
Baldonnel ...	1005.2	47	SSW	3	Sc	48	85	8	4200	Gu	1	A Gu	4	4	1002.1	42	SSB	6	09	49	95	6	1200	Sc Gu	10	-	-
MANCHESTER (ALEX _{PL})	1004.4	47	WWN	3	02f	47	86	4	1200	Sc Gu	10	-	-	-	1008.6	48	Sc	1	03f	43	92	3	760	Sc	9	-	-
Ross on Wye ...	1007.3	44	WWN	3	0	50	85	7	2000	N	7	A Sc	3	4	1009.4	41	SSW	2	0	46	92	6	1400	Sc	2	A S	9
Falmouth ...	1009.4	-1	SSW	4	0	63	85	7	-	Gu	1	A Sc	9	4	1008.1	-1	S	3	07	97	6	-	Sr	10	-	-	
Calshot (Hants) ...	1011.0	42	SW	3	02f	50	97	Y	4200	Sc Gu	9	-	-	3	1011.9	0	S	3	0	48	97	3	3000	Sc Gu	3	A S	3
Lympne (Folkestone)	1010.5	44	WWN	6	02f	51	75	8	1200	Sc	3	A Gu	0	4	1012.3	12	SW	3	0	46	92	7	1260	Sc	8	-	-
Aberdeen ...	1005.6	47	NW	3	01f	48	92	6	3000	Sc Gu	10	-	-	-	1006.3	42	WWN	1	02f	39	92	4	5700	Sc Gu	8	-	-
Howden ...	1004.9	49	WWN	4	00g	44	85	8	4200	Sc Gu	2	Ci	8	4	1008.8	42	-	30	0f	39	97	3	3000	Sc	4	Ci	3
Cranwell (Lincs)	1006.8	47	WWN	5	02f	47	75	7	4200	Sc	1	Ci	5	4	1009.9	43	W	1	02f	44	85	5	5700	Sc	6	A S	4
Felixstowe ...	1008.3	42	WWN	6	0	62	75	6	2000	Ci	1	Ci	6	5	1014.7	13	SW	2	01f	48	85	6	4200	Sc Gu	3	-	-
Shoeburyness ...	1009.5	45	W	4	CW	62	65	Y	2000	Sc	3	A Gu	8	4	1010.8	42	-	0	0f	47	85	6	-	-	A S	2	-
Benson ...	1008.6	41	SW	4	C	50	75	Y	-	Sc Gu	5	-	-	-	1010.0	41	SW	8	0	45	92	6	-	-	A S	2	-
S. Farnborough	1009.9	42	WWN	5	C	52	85	8	3000	Sc Gu	3	Ci Gu	5	4	1011.0	41	SSW	2	0m	46	92	6	-	-	-	-	-
London (Kew Observatory)	1010.1	44	WWN	4	0	42	75	8	2000	Sc Gu	10	-	-	-	1011.3	0	SW	1	0	46	86	4	-	-	-	-	-
Croydon ...	1010.3	42	WWN	6	02f	42	65	Y	4200	Sc	4	Ci	Y	4	1012.0	0	SSW	3	02f	47	92	6	2000	Sc Gu	2	Ci	1
1H. G.M.T. of 31 st																											
Renfrew ...	1005.5	-3	-	0	0	41	85	6	-	Sc Gu	10	-	-	-	995.6	-6	ENE	4	02f	44	97	3	-	nb	10	-	-
Eskdalemuir ...	1005.5	-3	SSW	6	or	53	*	*	*	*	*	*	*	*	997.0	-7	SW	5	02f	43	92	5	1250	nb	10	-	*
Valencia (Cahircin)	988.8	-3	SSW	6	or	53	*	*	*	*	*	*	*	*	989.8	16	SW	5	0	53	85	7	2000	St	9	R S	1
Baldonnel ...	996.6	-7	S	5	org	52	85	6	1200	St	9	10	-	-	988.9	-8	SSW	5	0rg	54	88	4	750	St	9	-	*
MANCHESTER (ALEX _{PL})	*	*	*	*	*	*	*	*	*	*	*	*	*	*	999.3	-9	5	5	02f	50	85	4	1250	nb	10	-	*
Ross on Wye ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.5	-8	SSW	6	02f	52	92	6	1250	nb	10	-	*
Falmouth ...	1004.0	-7	S	6	02f	52	91	5	-	nb	10	-	-	-	1000.0	-1	SSW	7	02f	55	97	2	-	nb	10	-	*
Calshot (Hants) ...	1010.7	-1	S	4	0	50	97	8	1200	St	10	-	-	-	1006.1	-5	S	6	02f	50	97	6	1250	nb	10	-	4
Lympne (Folkestone)	1012.4	0	SW	4	02f	46	97	1	4200	nb	10	-	-	-	1010.0	-2	SSW	5	0m	49	97	6	1250	nb	10	-	4
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.6	-5	SSW	5	02f	45	85	5	2000	St	10	-	3
Howden ...	1008.8	-2	SE	?	02f	40	97	3	2000	St	5	6	A S	4	1002.5	-6	SSW	4	02f	47	97	4	1250	nb	10	-	*
Cranwell (Lincs)	1010.1	-1	S	3	02f	40	87	3	-	-	-	A S	4	4	1004.5	-5	S	4	02f	47	97	4	1250	nb	10	-	*
Felixstowe ...	1012.9	0	SSE	3	C	41	97	6	5700	Sc Gu	4	A S	3	3	1010.8	-3	SE	4	02f	46	97	6	1250	nb	10	-	*
Shoeburyness ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.8	-2	S	2	01f	47	97	6	1250	nb	10	-	2
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.7	-5	S	5	0rg	50	92	5	1250	St	10	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.0	-6	SSW	6	02f	50	97	5	1250	nb	10	-	*
London (M.O. at 1H) ...	1010.																										

SUMMARY OF CONDITIONS AT 7 h.G.M.T. 31.12.20.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Overcast, rain; squally,	Indiff	Mod.
2. E. England	Overcast, misty (misty Rain)	Poor	Slight
3. E. Midlands	Overcast, misty, rain.	Poor	-
4. W. Midlands	Rain, squally.	Indiff.	-
5. S.W. England	Overcast, rain, squally.	Fair	Rough
6. South Wales	Overcast, rain	Fair	Mod.
7. North Wales	Overcast, rain, squally.	Fair	Mod.
8. N.W. England	Overcast, misty, rain.	Poor	Slight
9. N. Midlands	Overcast, misty, rain.	Poor	-
10. N.E. England	Rain, misty.	Indiff.	Slight
11. E. Scotland	Overcast, squally, threatening.	Indiff.	Mod.
12. S.W. Scotland	Overcast, rain, misty	V.poor	Slight
13. Isle of Man	-	Indiff.	Mod.
14. N. & N.W. Scotland	Overcast, squally.	Indiff.	R. rough
15. Hebrides	Rain.	Indiff.	Smooth
16. Orkneys and Shetlands	Fair to cloudy.	Indiff.	Slight
17. N.W. Ireland	Overcast, misty, rain.	Indiff.	Good.
18. N.E. Ireland	Overcast, misty, rain.	Indiff.	Rough.
19. S.E. Ireland	Overcast, squally.	Good	Rough
20. S.W. Ireland	Overcast	Good	Rough

Temperature reported from Coastal and Cross Channel Steamers

Position-Number	Date	Time G.M.T.	Sea °F	Air °F
12.	30 th	-	49	48
3.	"	-	50	47
7.	31 st	03 55	47	54
8.	"	04 56	47	52

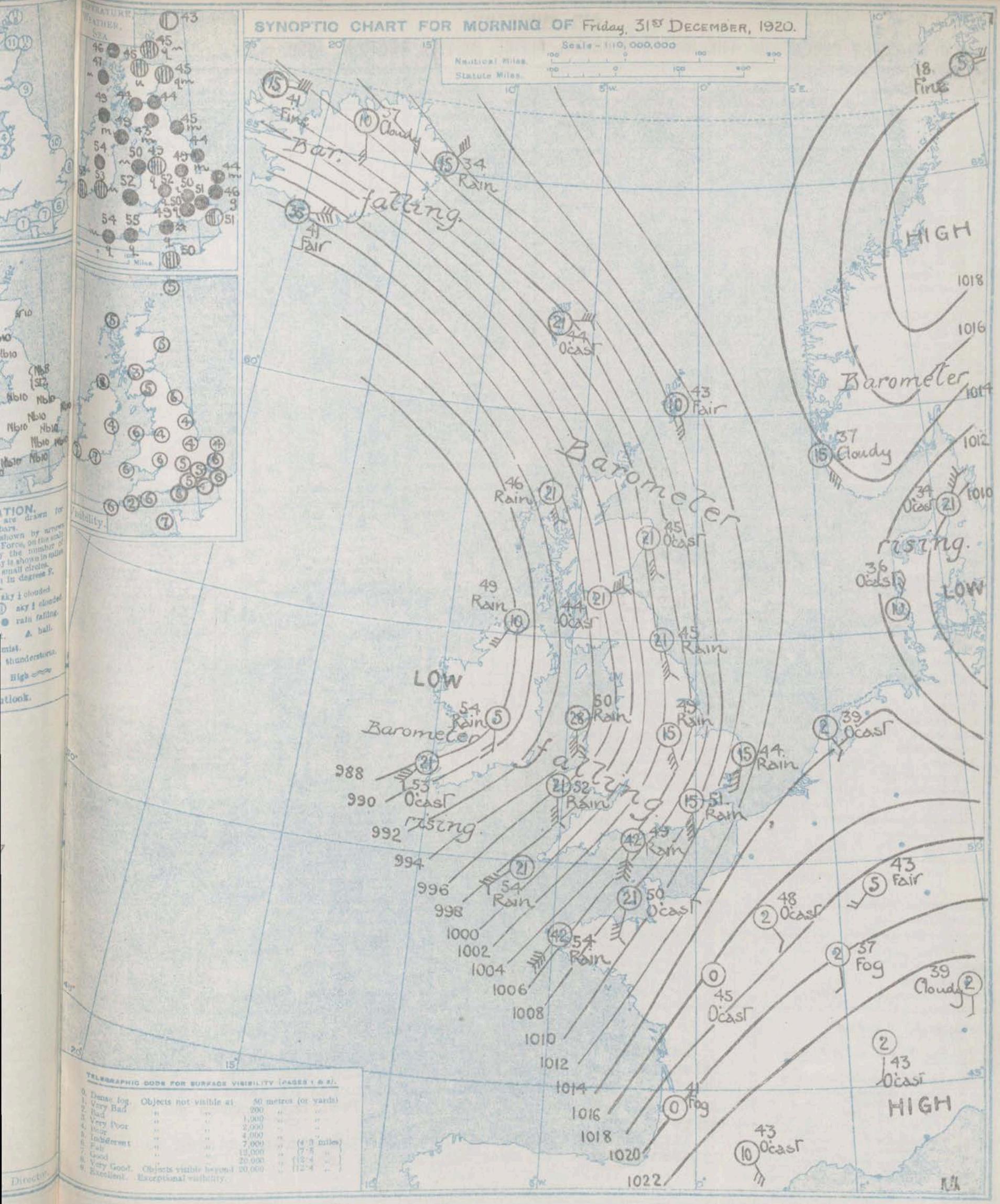


EXPLANATION.
 BAROMETER.—Isobars are drawn for intervals of two millibars.
 WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is given in miles per hour by figures in small circles.
 TEMPERATURE is given in degrees F.
 WEATHER SYMBOLS.—
 ☀ clear sky. ☁ sky + clouded.
 ☁ sky + clouded. ☁ sky + clouded.
 ☀ overcast sky. ☀ rain falling.
 ☀ snow. ☀ sleet. ☀ hail.
 ☀ fog. ☀ mist.
 ☀ thunder. ☀ thunderstorms.
 SEA DISTURBANCE.—
 Rough. High seas.

Further Outlook.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Friday, 31st December 1920.
1. S.E. England	Moderate Southerly wind; varying amount of low cloud, sky nearly cloudless at times; showery at first, but improving; visibility fair to good; very mild.
2. E. England	Moderate S to SW wind, varying amount of low cloud, sky nearly cloudless at times; occasional showers, visibility mainly good; very mild.
3. E. Midlands	Same as 1 - 4
4. W. Midlands	Same as 5 - 8
5. S.W. England	Same as 1 - 4
6. South Wales	Same as 5 - 8
7. North Wales	Same as 5 - 8
8. N.W. England	Same as 5 - 8
9. N. Midlands	Same as 5 - 8
10. N.N. England	Same as 5 - 8
11. E. Scotland	Same as 5 - 8
12. S.W. Scotland	Same as 5 - 8
13. Isle of Man	Same as 5 - 8
14. N. & N.W. Scotland	Same as 5 - 8
15. Hebrides	Same as 5 - 8
16. Orkneys and Shetlands	Same as 5 - 8
17. N.W. Ireland	Same as 5 - 8
18. N.E. Ireland	Same as 5 - 8
19. S.E. Ireland	Same as 5 - 8
20. S.W. Ireland	Same as 5 - 8

Wind between S & W with alternating stormy and fair periods & an unusually high temperature.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1920. No. 366.

FRIDAY
31st Dec. 1920

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 30 th																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night 18h-9h	Day 9h-18h	Sunrise to Sunset	Max. °F.	Min. °F.	Night 17h-9h	Day 9h-17h	Sunrise to Sunset						
Scotland,	Oban	6	6	47	35	-	-	3.8	6	43	11	-	3.2						
	Banff	0	0	43	32	1	-	0.0	6	43	11	-	2.8						
	Montrose								6	43	11	-	0.8						
	St. Andrews								6	43	11	-	0.8						
England, N.E.	Harrogate	c. bc. 6	3	46	40	14	-	4.0	6	42	13	-	1.4						
	Scarborough	bc	6	52	42	12	-	1.0	6	42	13	-	2.5						
	Skegness								6	42	13	-	1.0						
England, E.	Lowestoft								6	42	13	-	2.5						
	Felixstowe	bc	6	53	45	1	-	3.5	6	42	13	-	2.5						
	Southend-on-Sea	bc	6	53	44	-	-	2.5	6	42	13	-	1.0						
England, S.E.	Tunbridge Wells	b. bc. 6	b. bc. 6	53	47	1	-	1.2	6	42	13	-	0.6						
	Margate	b. bc. c	b. bc. c	54	48	-	-	0.5	6	42	13	-	1.3						
	Ramsgate	*	*	51	46	-	-	1.6	6	42	13	-	1.3						
	Folkestone	bc	b. bc. 6	54	48	-	-	1.1	6	42	13	-	1.3						
	Hastings	c. bc. 6	6	53	48	0.4	-	1.9	6	42	13	-	1.3						
	Eastbourne	b. 6	b. bc. 6	52	50	0.4	0.1	1.1	6	42	13	-	1.3						
	Brighton	c. 6	6	57	50	1	-	1.8	6	42	13	-	1.1						
	Worthing	bc. 6	c	57	50	1	-	0.8	6	42	13	-	1.1						
	Littlehampton	bc	6.6	50	47	0.4	-	0.8	6	42	13	-	2.4						
	Portsmouth (S. thea)	*	*	53	48	1	-	0.8	6	42	13	-	1.9						
	Bournemouth	*	*	51	48	1	2	0.4	6	42	13	-	1.6						

STATIONS.		SUMMARIES FOR PAST 24 HOURS.								BEAUFORT NOTATION.		THE BEAUFORT SCALE OF WIND FORCE.	
		7h-18h 30 th	18h-18h 30 th	18h 30 th -1h 30 th	1h-7h 30 th	Max. Temp. °F.	Min. Temp. °F.	Min. in Grass °F.	Rainfall, †				
Renfrew	bccf. b. 6	bccf. b. 6	b. bc. c. 6	02f rr	47	36	29	mm. mm.	mm. mm.	1.9	bc sky (not more than a quarter covered).	Less than 1	Less than 0°
Eskdalemuir	0	c. 6. 6	c. 6. 6	rr	45	37	34	0.1	4	2.3	bc sky partly cloudy (one half covered).	1- 8	0.2- 1.5
Valencia (Cabrc'd)	ccc. 6. 6	c. 6. 6	c. 6. 6	rr	56	48	50	13	18	0.0	c generally cloudy (three quarters covered).	8-12	3.4- 6.4
Baldonnel	c. 6. 6	6	rrg. 6. 6	c. 6. 6. 6	54	39	45	trace	3	1.5	d drizzle, or fine rain.	18-24	5.5- 7.9
MANCHESTER (ALEXANDER FRANCIS)	c. 6. 6	c. 6. 6	c. 6. 6	02f rr	51	40	36	trace	5	4	e wet air without rain falling.	19-24	8.0-10.7
Ross on Wye	bc. 6. 6	c. 6. 6	0.6. 6	rr	52	46	38	0.3	3	0.2	f fog.	25-31	10.8-13.8
Falmouth	b. 6. 6	a. opd. 6	c. 6. 6. 6	rr	55	48	47	-	16	0.9	g gloom.	32-38	13.9-17.1
Calshot (Hants)	b. 6. 6	c. 6. 6	c. 6. 6	rr. 6. 6. 6	51	47	46	-	3	0.7	h hail.	39-46	17.2-20.7
Lympne (Folkestone)	c. 6. 6	c. 6. 6	c. 6. 6	c. 6. 6. 6	51	46	44	-	1	2.2	i lightning.	47-54	20.8-24.4
Aberdeen	b. 6. 6	6. 6. 6	3. 6. 6. 6	3. 6. 6. 6	45	38	30	1	-	0.1	j mist.	55-63	24.6-28.4
Howden	b. 6. 6	b. 6. 6	b. 6. 6. 6	0 rr	48	36	29	-	34	3.0	k overcast sky.	64-75	28.5-38.5
Cranwell (Lincs)	b. 6. 6. 6. 6	0	b. 6. 6. 6	rr	50	38	35	-	3	4.2	l passing showers.	76-86	38.6-48.6
Felixstowe	b. 6. 6	b. 6. 6	b. 6. 6. 6	c. 6. 6. 6. 6	54	39	+	-	2	3.9	m squalls.	87-96	48.7-58.7
Shoeburyness	b. 6. 6	b. 6. 6	b. 6. 6. 6	0.6. 6. 6	53	40	31	0.1	1	2.2	n rain.	97-106	58.8-68.8
Benson	b. 6. 6	b. 6. 6	b. 6. 6	rr	53	43	34	-	2	3.0	o sleet, i.e., rain and snow together.	107-116	68.9-78.9
S. Farnborough	b. 6. 6	c. 6. 6	b. 6. 6. 6	c. 6. 6. 6	52	45	38	-	2	2.2	p snow.	117-126	78.8-88.8
London (Kew Obsy.)	b. 6. 6	c. 6. 6. 6	b. 6. 6. 6	c. 6. 6. 6	53	43	37	-	2	2.2	q thunder.	127-136	88.9-98.9
Croydon	b. 6. 6	c. 6. 6. 6	c. 6. 6. 6	c. 6. 6. 6	53	46	41	-	2	4	r ugly, threatening sky.	137-146	98.8-108.8

LONDON OBSERVATIONS.		WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall, mm.	Sunshine to Sunset Hours.	HUMIDITY %	SOUTH KENSINGTON (Meteorological Office).		TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.			
		Morning.	Afternoon.												
		24 HOURS ENDED 9h G.M.T. 31 st								Vertical Component of Solar Radiation per Square Centimetre during yesterday		31 st DEC. & 1 st JAN. 1920.			
										Total 258	Joules.	Stations.	Sunrise.	Noon.	Sunset.
										Milliwatts.	G.M.T.	G.M.T.	G.M.T.		
										Average Rate 0.2					
										Maximum Rate 2.4					
										Valencia	5.51	12.44	4.47		

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.		
Exposure from 30 th 17h-18h m. to 31 st 7h-8h m.		
Duration of Exposure.		
Star.	Duration of Exposure.	Duration of Record.
Polaris	14. 0	4. 0
δ Ursae Minoris	14. 0	2. 1

NOTES ON THE WEATHER OF YESTERDAY.

Rain fell heavily in most places, 34mm at Howden, 31mm at Valencia, and 19mm at Roche's Point and Donaghadee. Between 3 and 4 hours of bright sunshine occurred at several stations in the East of England, but further West the records were not quite so good.

Very mild weather continued, the temperature rising to between 50° and 55° over England and Ireland.

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† Trace = rain has fallen but amount less than 0.1 mm.

* Information for these columns not usually received.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON

BRITISH SECTION.

CORRECTIONS AND ADDITIONS, DECEMBER, 1920.

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1.—CORRECTIONS.								
Report for	STATION.	CORRECTION.	Report for	STATION.	CORRECTION.	Report for	STATION.	CORRECTION.
12 th	Rosche's Point.	17h: Bar. 1022.0 : Temp. 35°: change +10°	23 rd	Holyhead.	Sunshine, 2-8.	12 th	Caishot.	13h wind. NNW. Grass Min. 46.
	Cranwell.	18h-1h: 55°: Rainfall, day 2 night 2. 24 th		London.	13h. Cloud. Nil. Weather "bm".			
13 th	Eskdalemuir.	13h clouds. Nb. 7. 05.2.		Castlebay.	17h. Sea. 5.			
	Falmouth.	1h wind. NNE. 3.		Blackpool.	18h bar. 1001.2.			
	Malin Head.	Sunshine. 3-0.		Pembroke.	" 1005.6.			
	Holyhead.	18h wind. ENE. 6.		Portland.	Max. 45.			
	Scilly.	Min. 32.		Yarmouth.	Sunshine. "0-0"			
	Jersey.	Max. 39.		Renfrew.	18h wind. "N". Rain. day. 8°.			
	Dungeness.	1h Temp. 31.		Shoebury.	(3h Temp. 53. 1h Vis. 7.			
	Valencia.	18h bar. 1019.3.		Baldonnel.	Th. Vis. 6.			
	Calshot.	13h bar change. -2.		Calshot.	" Wind. "SE-E".			
	Lerwick.	Min. 40.		Croydon.	" bar. 1015.1 : 18h-1h, "015 dodo".			
	Spurn Head.	Rainfall. 0-4.		Malin.	Sunshine. "1-2"			
	Renfrew.	Rain. day. 0-4 : night. 0-3.		Bur Castle.	Max. 54.			
	Hynpne.	1h-13h. 0m.		Valencia.	13h bar change. -5			
	Howden.	Rain. day. 4 : night. 1.		Caishot.	13h cloud. Sc. 3. 05.4.			
	Cranwell.	1h-13h. 03.5.		London.	" 05.3.			
	Baldonnel.	Grass min. 29.		Baldonnel.	13h-18h. "5.0"			
	Rosche's Point.	18h weather. 6.		Granwell.	Grass Min. 40 : Rain. day "Nil".			
	Falmouth.	18h humidity. 85.		Siomaway.	Max. 52. Min. 41.			
	Croydon.	18h bar. 1029.2.		Renfrew.	18h cloud. Sc. 8. 05.2 : Th. cloud "Sc. 10".			
	Malin Head.	18h Vis. 7.			18h cloud "Sc. 10" : Sunshine. 2-H.			
	Valencia.	In weather. "bc 2f."			18h cloud "Sc. 2. 05.1" : Grass Min. 33			
	Baldonnel.	" "			13h wind "Sw".			
	Cranwell.	1h bar. 1029.4.			13h Temp. "5.2 : Th. Sea. 4.			
	Eskdalemuir.	1h bar. 1028.8 : Max. 37.			18h bar change. -1 : Th. bar. 1003.6.			
	Falmouth.	18h clouds. 25.10.			18h bar. "1014.4"			
	Calshot.	18h humidity. 92.			18h bar change. -5			
	Rosche's Point.	Rain. night. nil.			18h bar. 1014.6			
	Renfrew.	13h Temp. 32 : Vis. 7.			18h Temp. 49 : Cloud "Sc. 10".			
	Cranwell.	1h clouds. Sc. 4.10.			Humidity 1h. "85".			
	Valencia.	18h Temp. 33.			" 92".			
	Holyhead.	Min. 28.			Sunshine. 2-1.			
	Dungeness.	Max. 39.			" 10.			
	Tynemouth.	18h clouds. Q.Cu. 7.			18h. cloud "Q.S.7" : weather "C 25".			
	Baldonnel.	1h clouds. 55.10.			" " 1500 : Sc. Cu. 8".			
	Falmouth.	In weather "02f" : Sea. 2.			1h bar change. "+3"			
	Calshot.	1h wind. NE. 3.			In wind "SE.6".			
	Jersey.	18h Temp. 38.			1h cloud "Nb. 10".			
	Nairn.	" 35.			Rain. day "5".			
	Rosson Wys.	18h-1h. 4-55.			Max. "10".			
	Falmouth.	1h bar. 1020.6.			In wind "SS.E.3".			
	Calshot.	1h Sea. 2.			Rain. 2-2.			
	Renfrew.	1h Temp. 33.			Min. ?39".			
	Portmalo.	Rain. 0-4.			18h wind. N.1.			
	Spurn Head.	18h bar. 1017.1.			" Vis. 7".			
		18h weather. "03f.d".			13h Clouds. "750 : Sc. 10".			
		1h " 03.5f".			1h wind. WSW. 3 : Th. 13h. "pd.35".			
		1h bar. 1015.0 : Grass min. 32.			1h weather. "3" : Cloud. Sc. 2. Cu. 7".			
		1h bar. change. "-3"			Afternoon. "bbc".			
		Rainfall. 2-7.			Sunshine. "0-0".			
		Min. 37.			18h wind "ESE".			
		Rain. 0-2.			18h clouds. Sc. 3. 05.7			
		Min. 39.			In weather "r" : Cloud. "Nb. 10".			
		Min. 34: Rain. day. Nil.			1h bar. 999.7 : Temp. 48 : humidity 85.			
		1h Vis. 6.			1h-1h "rb" : Rain. night. "7".			
		18h humidity. 85.			1h bar. change. "+3" : Th. bar. 1002.8.			
		18h. Sea. 2.			1h bar. 1005.9 : Min. 47.			
		13h bar. 1013.2.			1h-1h "02f PRs".			
		1h Vis. 5.			Min. 50.			
		Rainfall. "8			18h bar. 999.3.			
		Grass min. 41.			1h Sea. 2.			
		13h-18h. "3fe 2.5e".			1h wind. "SE.5".			
		Max. 16: Rain. 0-2.			Granwell.			
		18h Temp. 38 : change. "-5"			London.			
		1h bar. 1022.8			Malin Head.			
		18h visibility. 1.			Blackpool.			
		18h bar. 1026.9.			Portsmouth.			
		13h. no clouds. 18h wind. NE. 1.			Scilly.			
		1h cloud. Sc. Cu. 8. 1h Temp. 33.			Yarmouth.			
		Min. 40.			London.			
		1h Temp. 45.			Malin Head.			
		13h. 02.6			Blackpool PC.			
		13h. Sea. 2 : Th. Temp. 23.			Renfrew.			
		1h. clouds Sc. 7: weather "2"			Caishot.			
		18h bar. 1024.2.			Malin.			
					Baldonnel.			
					Calshot.			
					Jersey.			
					Falmouth.			
					Tynemouth.			
					Calshot.			
					London.			
					Malin Head.			
					Blackpool PC.			
					Renfrew.			
					Caishot.			
					Malin.			
					Baldonnel.			
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					London.			
					Malin Head.			
					Blackpool PC.			
					Renfrew.			
					Caishot.			
					Malin.			
					Baldonnel.			
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					London.			
					Malin Head.			
					Blackpool PC.			
					Renfrew.			
					Caishot.			
					Malin.			
					Baldonnel.			
					Calshot.			
					Jersey.			

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.

CORRECTIONS AND ADDITIONS, DECEMBER 1920.

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II.—ADDITIONS

Report for	STATION,	BAROM. at M.S.L. mb.	TEMP.		WIND.		Weather	STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.						WEATHER.				Sunny Hours					
			F.	Change in 3 hours.	Dir.	Force 0-12.		At M.S.L. mb.	Change in 3 hours.	Temp. °F.	Change in 24 hours.	Wind Dir.	Force 0-12.	Dir. of Upper Cloud.	Weather	Sea 0-9.	Rain- fall, mm.	TEMP.	Max. °F.	Min. °F.	Morning.	Afternoon.	Night.
			18H. G.M.T.					7H. G.M.T.						24 HOURS ENDED 7H.									
2nd	Malin Head	1006.1	13	SW	3	bc	1007.5	+3	47	+6	W	2	-	c	5	0.1	50	39	cbcp	bcpc	omqr	5.2	
3rd	"	1013.0	14	SSW	2	bc	?	+2	44	-3	NW	5	-	omqr	4	5.2	47	42	omqr	omqr	p	1.2	
4th	"	1010.0	17	NW	5	omqr	1026.2	+3	48	+4	NW	5	-	bcqr	5	18?	50	44	bcqr	bcqr	bm	0.9	
5th	"	1033.0	18	N	2	bc	1036.0	0	43	-5	SE	1	-	b	0	-	51	43	bm	bm	bm	2.5	
6th	"	1036.3	10	S	2	b																	
22nd	Liverpool	983.6	15	SW	4	b																	0.0
26th	Castlesay																						
-	Blackhead Point																						
27th	Castlesay	1004.0	19	ESE	4	bc	991.2	+4	52	+2	SW	4	-	0	5	5	53	49	cbcp	cbcp	ro	*	
-	Blackhead Pt.	996.1	50	SE	2	bc	1000.3	+8	50	-2	SW	3	-	bc	4	4	54	52	bc	bc	cp	0.0	
28th	Blackhead Pt.	992.0	19	SW	4	bc	984.4	-2	50	-2	SE	3	-	c	4	1	60	48	bc	bc	bc	*	
29th	Blackhead Pt.	995.1	50	SW	2	bc	1000.1	+3	49	-1	SW	3	-	bc	3	-	63	52	c	c	bc	*	
30th	"	998.7	13	-	0	cm	999.3	+3	44	-5	SSE	3	-	o	3	1	60	52	bc	cm	omro	*	

Report for	STATION,	OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 18, 7H., 12H. AND 18H.												SUMMARIES FOR PAST 24 HOURS.											
		BAROM. at M.S.L. mb.	± Change in 3 hours.	WIND.		Weather	TEMP. °F.	Humidity, %	Visibility, 0-9	Height of Low Cloud, Feet.	Low Cloud.		Upper Cloud.		Sea.	WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	RAINFALL.		Sea mm.
				Dir.	Force 0-12.						Form.	Amt. 0-10.	Form.	Amt. 0-10.		7h-18h.	13h-18h.	18h-1h.	1h-7h.				Day 7h-18h.	Night 13h-7h.	
6th	Baldonnel	1033.6	-3	-	0	025	38	92	b	2000	Scu	9	-	-	-					bcc2f	42	31	30	0.3	0.0
13th	Granwell	1021.8	0	NW	2	025	15	97	2	<500	Sc.	10	-	-	-	b35	29	4	2	b35	29	29	3	0.1	0.0
14th	"	1022.3	+2	NE	1	035	29	97	4	1250	Sc.	10	-	-	-										
18th	Hawdon	7h																							
21st	Shoebury Ness	1010.9	-2	-	0	b28	35	85	4	-	-	-	-	-	-										
23rd	Hawdon	7h	1000.7	+6	-	0	cmx	27	97	4	3000	Sc.	4	ASL.	2	x									
24th	Baldonnel	7h	997.0	-9	E	6	025	44	85	5	2020	Sc.	10	-	-	x									
25th	Carwell	7h	1011.9	+2	S	3	015	50	97	6	4200	Scu	8	ASL.	2	x									
27th	Hawdon	18h	1011.5	-1	S	1	0m	47	97	6	750	Sc.	4	ASL.	5	x									
28th	Baldonnel	7h	994.9	0	-	0	065	47	92	1	150	Sc.	10	-	-	x									
29th	Carwell	13h	1000.1	+1	SW	3	025	49	97	5	150	Sc.	10	-	-	x									
7th	Hawdon	7h	1007.2	0	S	3	0mqr	43	97	4	3000	Scu	10	-	-	x									
		18h	1029.1	-2	E	2	0qr	41	92	5	750	ND.	5	Scu	5	x									

† The barometric change is expressed in half millibars.

PORTUGAL / SPAIN / SWITZERLAND / FRANCE / POLAND / GERMANY, A.C. / NETHERLANDS / NETHERLANDS / ICELAND, &c. / NORTHERN EUROPE.