

METEOROLOGICAL OFFICE.

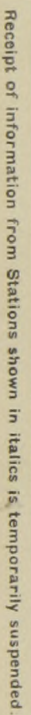
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DAILY WEATHER REPORTS.

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1<sup>ST</sup> JULY TO 31<sup>ST</sup> DECEMBER 1915.



[illegible]



# DAILY WEATHER REPORT. APPENDIX I.

## NORMAL VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE.

### FOURTH QUARTER, OCTOBER TO DECEMBER.

(Issued as a Supplement to the Daily Weather Report of December 1st.)

OCTOBER.	STATIONS.	PRESSURE. 1906-1910.	AIR TEMPERATURE.								RAINFALL. 1876-1910.		BRIGHT SUNSHINE. 1881-1910.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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			7 a.m. Obser- vations (re- duced to M.S. Level and to Lat. 45°).	Dry Bulb 7 a.m.	Wet Bulb 7 a.m.	Daily Maxi- mum.	Daily Mini- mum.	Maximum.		Minimum.		Days with Rain.	Total Fall.	Average Duration.	Per Cen- tage of Possible Duration.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 305.

Monday  
1st November 1915.

	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 5 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
				Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick	1012.2	44	SSE	3	bc	1013.2	0	39	-6	-	0	-	bc	0	5	46	38	bc	bc	bc	Hours.
	Deerness	1009.8	45	SE	4	0	1012.8	+	40	-6	E	1	N	bc	1	49	39	bc	bc	bc	5.5	
	Stornoway	1007.4	45	ESE	2	0	1012.9	+2	38	-12	-	0	-	bc	0	-	51	38	bc	bc	bc	7.0
	Castlebay (Barra Isd.)	1005.3	50	E	2	0	1011.5	+3	44	-4	NE	2	-	bc	2	-	52	43	bc	bc	bc	7.0
	Glasgow	1004.9	44	ENE	3	0	1009.5	+3	39	+1	NE	2	E	0	0.3	47	37	cm	cm	cm	2.3	
	Esksdalemuir	1004.1	43	ENE	4	0	1008.0	+3	39	+1	NNE	4	E	0	0.2	47	37	cm	cm	cm	1.8	
	Malin Head	1001.5	48	E	6	cm	1005.4	+2	46	-2	E	6	E	cm	6	-	50	44	cm	cm	cm	0.8
	Blacksod Point	1000.9	46	NE	3	cm	1008.4	+4	48	-3	NE	3	NE	bc	3	1	48	42	cm	cm	cm	0.8
	Valencia	998.4	50	N	4	0	1005.3	+3	47	-1	NNE	3	N	bc	3	3	52	46	bc	bc	bc	0.2
	Roche's Point	995.1	49	NNW	4	bc	1003.3	+	47	-2	N	3	-	0	3	4	52	47	bc	bc	bc	0.0
	Birr Castle	996.7	46	N	2	0	1006.2	+	44	-2	N	2	-	0	3	1	48	43	bc	bc	bc	0.0
	Donaghadee	999.1	50	E	6	cm	1006.9	+3	46	-2	ENE	5	E	cm	5	Trace	50	46	cm	cm	cm	0.0
	Liverpool (Bldston)	995.9	46	ENE	5	0	1002.0	+4	45	+6	NE	3	E	0	3	3	47	39	bc	bc	bc	0.0
	Holyhead	994.5	49	E	7	cm	1002.0	+4	49	+3	ENE	6	E	cm	6	1	49	45	bc	bc	bc	2.4
	Pembroke (St. Ann's)	998.6	48	E	5	bc	997.9	+3	47	-4	NNE	4	-	cm	4	5	52	47	bc	bc	bc	1.8
	Scilly (St. Mary's)	998.6	53	N	5	cm	996.9	+4	49	-6	N	5	N	cm	6	6	57	47	cm	cm	cm	1.5
	Falmouth	990.9	50	N	7	cm	995.2	+4	48	-3	N	5	-	0	5	10	54	48	bc	bc	bc	0.4
	Jersey (St. Aubin)	997.8	55	SSW	4	0	998.9	+	53	-1	NW	3	-	0	3	26	58	50	bc	bc	bc	1.3
	Portland Bill	995.7	54	SSE	5	cm	999.8	+3	50	-3	NNE	5	NE	0	4	20	56	50	bc	bc	bc	0.0
	Dungeness	994.4	50	SE	4	0	990.9	-1	51	+3	E	4	-	0	3	5	52	47	bc	bc	bc	0.0
Dover	996.4	47	S	4	0	993.2	0	48	+3	E	4	E	0	4	4	50	47	bc	bc	bc	0.0	
NORTHERN EUROPE.	Wick	1009.3	47	SE	3	0	102.7	+2	44	-3	E	2	-	0	4	Trace	49	40	cm	cm	bc	0.0
	Nairn	1008.4	40	-	0	0	1012.4	+	28	-10	-	0	-	0	1	-	49	27	bc	bc	bc	5.2
	Aberdeen	1008.6	45	ESE	5	bc	1011.3	+3	45	-3	ENE	5	-	0	4	04	50	43	bc	bc	bc	1.7
	Leith	1006.4	47	E	2	0	1005.8	+1	46	+6	E	4	NE	0	2	2	48	38	bc	bc	bc	0.0
	Tynemouth	1003.1	48	E	5	cm	1005.2	+1	47	+1	ENE	4	-	0	3	3	48	45	cm	cm	cm	0.0
	Spurn Head	999.3	50	ESE	7	cm	1000.2	+2	48	+5	E	7	-	0	7	2	51	45	bc	bc	bc	1.1
	Yarmouth	999.7	49	SSE	7	0	996.7	-1	49	0	E	6	-	cm	7	3	50	49	bc	bc	bc	0.3
	Clacton-on-Sea	996.6	49	SE	5	0	994.1	0	50	+2	ESE	5	E	0	5	7	50	45	bc	bc	bc	0.0
	Nottingham	996.5	45	E	5	0	999.3	+	46	+3	NE	3	NE	0	3	3	47	43	bc	bc	bc	0.0
	Bath	990.8	49	E	3	bc	993.7	+	49	+1	E	3	NE	0	27	53	47	bc	bc	bc	0.0	
	St. Farnborough	991.7	49	E	3	bc	991.7	+2	48	+	NE	2	-	0	38	50	45	bc	bc	bc	0.0	
	London (Kew Obsv.)	992.4	49	ESE	4	0	992.5	+2	49	+3	NE	4	-	cm	21	50	46	bc	bc	bc	0.0	
	Spitsbergen	1022.6	7	-	0	bc	1026.4	+2	7	+6	S	4	-	0	7	0	0	0	0	0	0	0.0
	Vardö	1018.7	30	-	0	0	1021.9	0	28	+1	NNE	5	-	0	4	30	23	bc	bc	bc	0.0	
	Bodö	1020.3	34	E	2	bc	1018.0	-1	32	-5	E	4	-	0	2	-	37	30	bc	bc	bc	0.0
	Christiansund	1015.7	36	SE	2	bc	1013.2	0	34	+2	E	1	-	0	1	-	39	32	bc	bc	bc	0.0
	Skudesnaes	1013.3	37	NE	3	bc	1011.7	-1	32	-7	SSW	2	-	0	2	-	41	32	bc	bc	bc	0.0
	Færder (X'ania Fjord)	1015.1	32	N	6	0	1012.0	-1	32	0	NNE	5	-	0	2	3	34	30	bc	bc	bc	0.0
	The Scaw (Skagen)	1012.4	37	E	2	bc	1009.5	0	37	-2	ENE	3	-	0	3	1	39	36	bc	bc	bc	0.0
	Blaavands Huk	1010.1	36	ESE	1	bc	1007.8	-1	34	+2	E	2	-	0	2	-	36	34	bc	bc	bc	0.0
FRANCE, &c.	Haparanda																					
	Hernösand																					
	Stockholm																					
	Wisby																					
	Karlstad																					
	Petrograd (G.M.T.)																					
	The Helder	1003.4	41	E	4	0	999.9	0	39	+3	E	4	-	0	2	-	43	36	bc	bc	bc	0.0
	C. Gris Nez	996.0	46	SE	4	0	992.0	0	47		ESE	4	-	0	2	3	52	48	bc	bc	bc	0.0
	La Hévet...	999.6	45	SSE	5	0	984.4	+	46		E	4	-	0	3	7	48	39	bc	bc	bc	0.0
	Ushant																					
SOUTHERN EUROPE.	Brest (St. Mathieu)	998.4	55	WSW	7	0	996.6	+3	54		NW	6	-	0	3	57	54	bc	bc	bc	0.0	
	Rochefort (Die d'Aix)	999.7	57	WSW	7	0	998.7	+3	56		N	8	-	0	6	59	52	bc	bc	bc	0.0	
	Biarritz	1007.5	59	N	4	bc	1006.3	+1	54		WSW	7	-	0	8	9	63	52	bc	bc	bc	0.0
	Paris	998.7	48	SSE	2	bc	991.7	-3	50		SSE	3	-	0	2	52	43	bc	bc	bc	0.0	
	Belfort	1006.1	44	E	4	0	1002.9	+	41		E	3	-	0	1	57	41	bc	bc	bc	0.0	
	Lyons	1007.8	47	S	4	0	1002.6	+	46		S	3	-	0	7	50	44	bc	bc	bc	0.0	
	Nice	1011.0	52	-	0	bc	1005.2	0	51		-	0	-	0	6	57	45	bc	bc	bc	0.0	
	Perpignan	1009.2	50	NE	1	0	1008.6	+2	48		NW	1	-	0	1	55	48	bc	bc	bc	0.0	
SOUTHERN EUROPE.	Sanguinaire																					
	Corunna (7 a.m.)	1013.7	57	WSW	5	0	1017.5	0	54	-3	WSW	4	-	0	7	9	63	52	bc	bc	bc	0.0
	Madrid (8 a.m.)																					
	Lisbon (9 a.m.)	1020.3	61	WNW	4	bc	1021.1	0	57	-2	N	2	-	0	5	64	55	bc	bc	bc	0.0	
	Gibraltar	1023.0	62	N	5	bc	1020.3	+	61		N	6	-	0	5	-	68	56	bc	bc	bc	0.0
Rome																						
Malta (8 a.m.)						1019.5	0	64	+3	SSW	3	-	0	6	66	61	bc	bc	bc	0.0		
SOUTHERN EUROPE.	Azores (Horta, 8 a.m.)	1025.7	+	SSW	4	bc	1024.8	-1	66	+1	SSW	3	-	0	2	-	73	65	bc	bc	bc	0.0
	Madeira (Funchal)	1026.1	64	NNE	2	bc	1026.0	0	59	-2	NE	1	N	0	2	-	70	59	bc	bc	bc	0.0

South Farnborough

• Pilot Balloon Ascent at about 7 a.m.

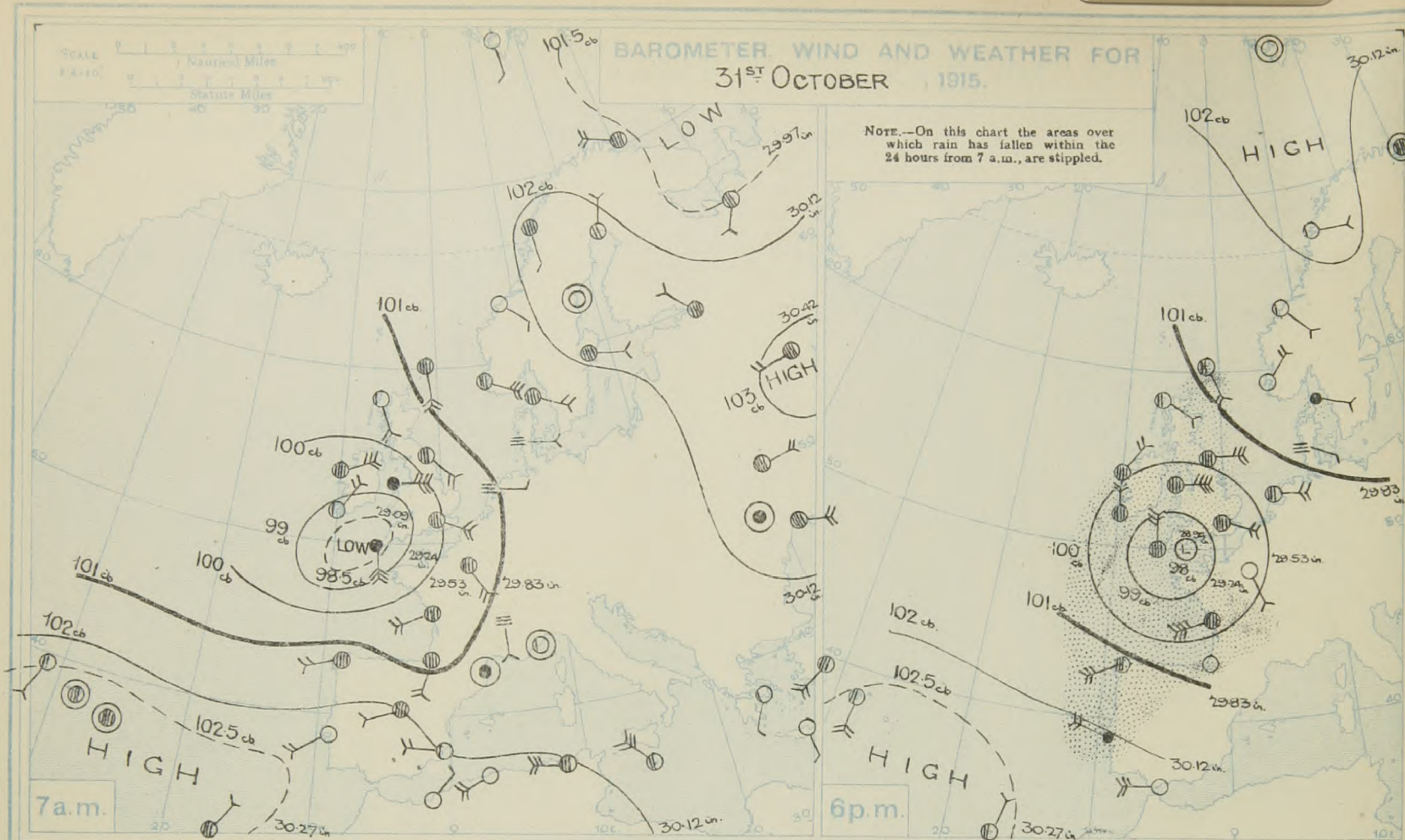
Wind at 180 metres. NE. 4.3 miles per hour.

\* Information for these columns not usually received.

† Received too late for insertion in Charts.

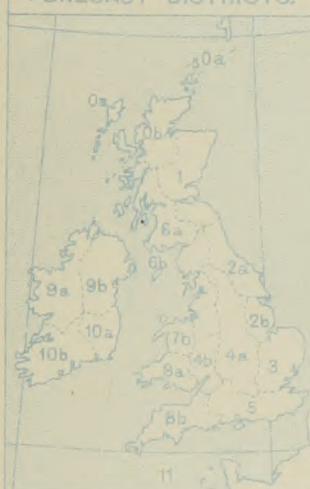
‡ The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay 11

- |    |   |   |   |
|----|---|---|---|
| 0  | { | a | } Light variable breezes; mostly fair, some mist; moderate temperature.                                   |
|    |   | b |   |
| 1  | { | a | } Light to moderate Easterly breezes; fair generally; cold at night, morning mist or fog.                 |
|    |   | b |   |
| 2  | { | a | } Fresh Easterly wind; moderating gradually, showery; moderate temperature.                               |
|    |   | b |   |
| 3  | { | a | } Strong squally Easterly wind, moderating gradually; dull, rainy, improving later; moderate temperature. |
|    |   | b |   |
| 4  | { | a | } Same as No. 7.  |
|    |   | b |   |
| 5  | { | a | } Fresh Easterly to North-Easterly winds; dull, rainy, improving later; moderate temperature.             |
|    |   | b |   |
| 6  | { | a | } Same as No. 1.  |
|    |   | b |   |
| 7  | { | a | } Fresh North-Easterly wind, moderating gradually; some showers, fairer; moderate temperature.            |
|    |   | b |   |
| 8  | { | a | } Fresh Northerly wind; fair intervals, some showers; moderate temperature.                               |
|    |   | b |   |
| 9  | { | a | } Moderate Northerly winds; mostly fair; rather cold.   |
|    |   | b |   |
| 10 | { | a | } Strong North-Westerly wind; high sea; squally, showery.   |
|    |   | b |   |

FURTHER OUTLOOK.

R. G. K. LEMPFFERT, Superintendent, Forecast Division.

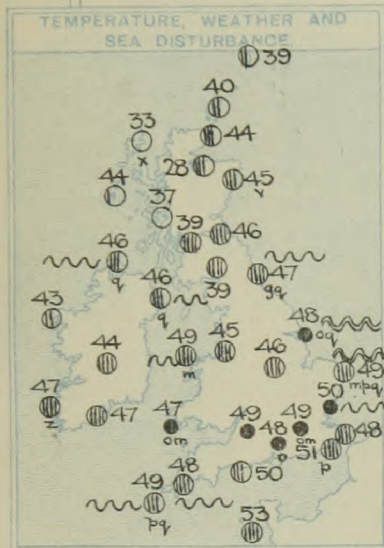
NAPIER SHAW, Director.



# SYNOPTIC CHART FOR 7 a.m., MONDAY, 1<sup>ST</sup> NOVEMBER, 1915.

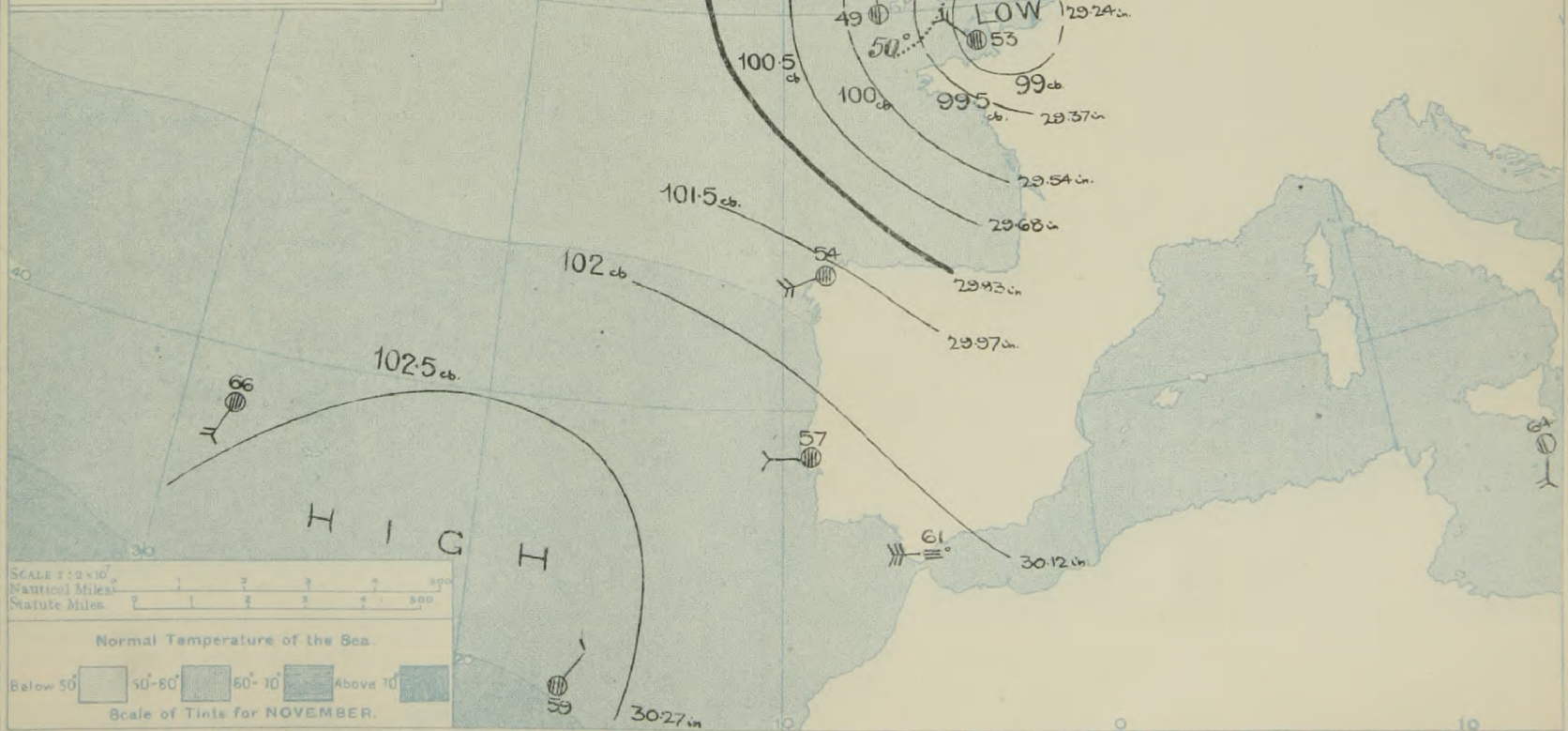
## GENERAL INFERENCE.

The depression over the Channel will continue to move very slowly eastward and to fill up.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm   
**TEMPERATURE.**—Given in degrees Fahrenheit.   
 Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 clear sky. sky 1/4 clouded. sky 1/2 clouded. overcast sky. rain falling.  
 \* snow. hail. fog. mist. thunder.  
 K, thunderstorm.  
**SEA DISTURBANCE.**—Rough High .





# PILOT BALLOON ASCENTS for the PAST WEEK. Component Velocities to East and to North in Metres per Second.

Station Date & Hour.	Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.	
	St. Farnborough 25h.	7.30h.	St. Farnborough 26h.	7.15h.	St. Farnborough 27h.	7.24h.	Falmouth 26h.	41h.	St. Farnborough 27h.	11.55h.	St. Farnborough 28h.	7.41h.	St. Farnborough 29h.	10.45h.	Benson 29h.	11.53h.	Eskdalemuir 30h.	7h.	St. Farnborough 30h.	11.45h.				
Heights in Kilometres.	5														+3	+7								
	4		-18	-9									+3	+6	+2	+5								
	3		-19	-9									+3	+4	+4	+6								
	2		-18	-8									+1	+4	+2	+4	+2	+10	+1	+4				
	1	-19	-12	-8	0	-6	-6	-3	+4	0	+2	0	+2	+2	+3	+4	+1	+6	0	+5				
	0.5	-16	-15	-12	0	-9	-6	-6	+5	-1	+1	-1	+2	+1	+2	+2	0	+3	-1	+5				
	0	-5	-7	-1	+3	-1	-3	-4	+4	0	+1	0	0	0	0	0	0	-1	-1	+1				

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.							Tunbridge Wells ...	5	50	40	oc	o	00
Banff ...							Margate ...	2	48	?	oc	o	00
Carnoustie ...							Ramsgate ...	2	46	43	oc	o	00
St. Andrews ...							Hastings ...	4	52	46	oc	o	00
England, N.E.							Bexhill-on-Sea ...						
Harrogate ...	0.2	47	32	c. bc	o. o	06	Eastbourne ...	4	53	48	o. bc. o	o. bc. o	01
Skegness ...	0.4	51	40	o. bc	bc. oc	14	Seaford ...						
England, N.W.							Brighton ...	13	50	?	oc. c	c. oc	04
Morecambe ...							Worthing ...	16	65	48	o. o	oc	08
Blackpool ...	0.3	48	40	op. o	o	00	Littlehampton ...	1	53	41	o	o	00
Southport ...	2	48	42	oc. o	o	01	Bognor ...	14	55	48	bc	bc. oc	21
Midlands.							Southsea ...	19	57	45	o. bc	oc	11
Buxton ...	?	43	37	oc	oc	00	Bournemouth ...	15	55	40	o. o	bc. oc	10
Leamington Spa ...	3	54	32	opd	opd	00	Weymouth ...	26	57	49	oc. bc	o. oc. c	12
Malvern ...	8	48	42	o	o	00	Torquay ...	21	65	43	c. oc	o	10
Ross-on-Wye ...	9	50	43	o	bc. oc	06	Paignton ...	25	56	48	oc	oc	00
Wales.							Falmouth ...						
Rhyl ...	1	47	41	?	oc	00	Penzance ...						
Colwyn Bay ...	1	47	42	c	o	00	Newquay ...	18	54	47	op	bc	31
Llandudno ...							Ilfracombe ...	8	54	48	bc. c	o. op. o	22
Aberystwyth ...	1	50	45	oc	c. bc. o	22	Weston-super-Mare ...	27	50	38	bc. bc. oc	o	10
Tenby ...													
England, E.													
Cromer ...													
Lowestoft ...													
Felixstowe ...	1	49	38	c	op	02							
Walton-on-Naze ...													
Southend-on-Sea ...	1	48	45	c. oc	o. o	00							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.	Min. on Grass.	Max.		Fore- noon.	After- noon.	Night.
Greenwich (Royal Obs.) ...	90	96	0.0	50	45	44	18	oc	oc. o	oc
City (Bunhill Row) ...	?	?	?	?	?	?	?	?	?	?
Westminster (St. James's Pk.)	95	99	0.0	51	46	45	22	oc	oc. oc	oc
Camden Sq. (Brit. Rainfall)	?	100	0.0	50	46	45	25	-	-	-
Hampstead (Reservoir) ...	?	77	0.0	48	44	40	26	oc	oc	oc
Richmond Park ...	?	?	0.0							
Kew. (See front page.)										
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
				Total.	Average Rate.		Max. Rate.			
S. Kensington (Roof of M.O.)				14.2	Joules		13 Milliwatts.			

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON  
AND SUNSET FOR STATIONS IN THE UNITED KINGDOM  
TO-DAY AND TO-MORROW.

1 <sup>st</sup> & 2 <sup>nd</sup> November 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.50	11.37	4.22
Greenwich ...	6.52	11.37	4.22
Wick ...	6.57	11.44	4.31
Valencia ...	7.20	11.56	4.22
	7.32	12.06	4.23
	7.37	12.25	4.19
	7.39	12.25	4.11

## NOTES ON YESTERDAY'S WEATHER.

Very unsettled weather prevailed in the south, with strong Easterly winds on the south-east coast. Rainfall exceeded 25 millimetres at many southern stations. 7 hours of sunshine were experienced in the Hebrides.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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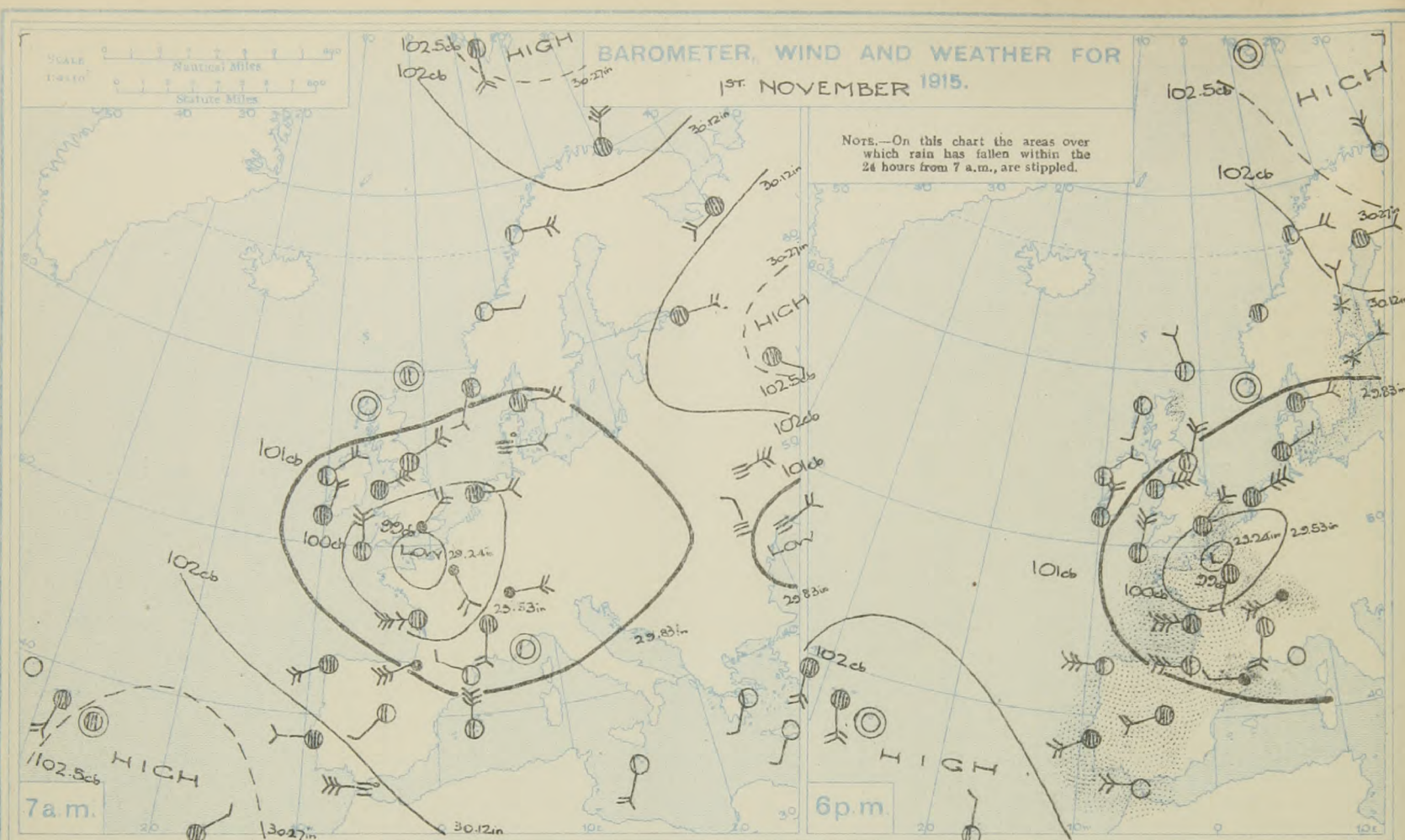
# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 306

Tuesday,  
2nd November 1915.

	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
				Force 0-12.	Dir.		Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Force 0-12.	Dir.	Max.					Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick	10140	40	NNW	2	bcm	10129	0	39	0	N	2	N	bc	2	-	45	37	c	bc	bcw	Hours.
	Deerness	10135	42	W	1	o	10132	0	40	0	WNW	2	-	cp	2	1	46	38	bc c	c o	op c	0.2
	Stornoway	10139	41	SSW	1	bog	10137	+1	37	+4	NNW	1	-	o	1	-	48	33	bc c	bc c	b o	1.8
	Castlebay (Barra Isd.)	10136	44	NE	2	bc	10128	0	48	+4	S	1	-	o	2	-	49	40	bc o	o bc	bc o	4.4
	Glasgow	10134	38	NE	3	bc	10145	0	29	-10	SE	1	E	c	*	trace	46	29	oc bc	bc o	bc o	4.9
	Esksdalemuir	10123	36	NNE	3	bc	10134	+1	33	-6	N	3	-	bc	*	1	47	33	oc bc	bc c	bc c	3.7
	Malin Head	10182	46	NE	1	bc	10137	0	35	-8	S	3	SE	bcm	2	-	50	37	bc	bc	bc	7.1
	Blacksod Point	10133	44	NE	2	bc	10130	-1	44	+1	SSW	3	SW	o	3	-	48	39	bc	bc	bc bc	*
	Valencia	10122	48	NNE	4	c	10144	0	32	-15	NE	2	NNW	c	3	-	51	32	oc	bc c	oc bc	1.5
	Roche's Point	10104	47	N	3	c	10137	*	40	-7	NNW	3	-	o	3	0.2	52	39	oc bc	bc c	bc o	*
	Birr Castle	10113	44	N	1	c	10143	*	28	-16	N	1	-	o	*	-	49	28	c	c	bc c	4.3
	Donaghadee	10114	46	NE	5	bc	10132	+1	42	-4	ENE	3	-	bcm	3	trace	48	42	bcm	bc	bc bc	*
	Liverpool (Bidston)	10080	46	NE	3	bc	10109	0	38	-7	NNE	2	-	bc	2	-	49	36	o	o	bc c	0.8
	Holyhead	10079	50	ENE	6	bc	10116	+2	45	-4	ENE	5	-	bc	4	-	50	44	bc	bc	bc bc	0.2
	Pembroke (St. Ann's)	10069	46	NNE	3	bc	10111	+1	40	-7	NE	3	-	bc	2	3	49	39	bc	bc	bc	0.5
	Scilly (St. Mary's)	10034	51	NNE	5	bc	10090	+1	47	-2	NE	4	NE	bc	5	3	51	44	bc	bc	bc bc	0.3
	Falmouth	10035	48	N	5	bc	10097	+3	41	-7	NE	1	-	bc	4	trace	51	40	bc	bc	bc bc	0.0
	Jersey (St. Aubin)	9956	53	NNE	4	bc	10051	*	48	-5	NE	4	NE	c	2	16	55	47	oc bc	oc bc	oc bc	1.2
	Portland Bill	9989	43	NNE	6	bc	10063	+3	41	-9	N	5	N	bc	4	-	52	40	c o	oc	bc c	*
	Dungeness	9943	51	NE	6	bc	10010	+3	43	-8	NNE	5	-	bc	5	3	52	42	oc	oc	bc c	*
	Dover	9960	48	NE	6	bc	10013	+2	43	-5	N	6	-	bc	4	5	50	42	oc	oc	bc c	0.0
	Wick	10139	41	WNW	1	o	10128	0	33	-9	W	1	-	bc	3	1	47	35	bc	bc	bc bc	*
	Nairn	10147	36	-	0	bc	10134	*	35	+7	SW	1	-	bc	1	0.2	48	28	bc	bc	bc c	3.9
	Aberdeen	10140	37	N	2	bc	10130	0	35	-10	-	0	-	bc	3	-	48	31	bc	bc	bc c	6.5
	Leith	10128	44	NE	4	bc	10130	+1	34	-12	NE	-	NE	c	*	-	47	32	bc	bc	bc c	*
Tynemouth	10093	45	NNE	4	bc	10099	0	43	-4	NE	4	NE	bc	5	-	46	42	bc	bc	bc c	*	
Spurn Head	10049	47	ENE	6	o	10067	+1	45	-3	NNE	6	-	bc	6	2	49	40	bc	bc	bc bc	0.0	
Yarmouth	10015	48	E	7	o	10024	0	45	-4	NE	7	NE	bc	7	1	50	40	bc	bc	bc bc	0.0	
Clacton-on-Sea	9988	48	NNE	5	o	10026	+1	42	-8	N	4	NE	bc	4	7	51	42	bc	bc	bc bc	0.0	
Nottingham	10050	44	NE	4	c	10053	*	38	-8	N	4	N	bc	*	3	46	37	bc	bc	bc bc	0.0	
Bath	10023	46	NNE	2	o	10085	*	38	+11	N	3	-	bc	*	1	50	37	bc	bc	bc bc	0.0	
St. Farnborough	9995	46	N	4	o	10035	+2	38	-10	NNW	2	N	bc	*	4	44	37	bc	bc	bc bc	0.0	
London (Kew Obsy.)	10002	47	NE	4	o	10036	+3	39	-10	N	3	N	bc	*	6	50	39	bc	bc	bc bc	0.0	
NORTHERN EUROPE.	Spitsbergen	10291	3	-	0	bc	10303	+1	1	-6	SSE	2	*	bc	*	*	3	0				
	Vardø	10251	28	N	4	o	10227	-3	21	-7	WNW	2	-	bc	3	*	28	21				
	Bodo	10193	34	E	2	bc	10199	0	30	-2	E	4	-	bc	2	-	34	27				
	Christiansund	10128	36	-	0	c	10132	0	34	0	SE	1	-	bc	1	-	39	34				
	Skudesnaes	10113	36	-	0	bc	10111	0	34	+2	E	1	-	bc	2	-	41	32				
	Færder (Xantafjord)	10122	36	NE	4	o	10133	+2	36	+4	NE	4	-	bc	1	-	36	32				
	The Scaw (Skagen)	10043	37	E	3	o	10096	+1	37	0	ENE	3	-	bc	3	-	39	36				
	Blaavands Huk	10063	37	ENE	1	o	10055	0	37	+3	ENE	2	-	bc	2	trace	39	32				
	Haparanda	10246	21	E	2	o	10234	-1	21		ENE	2	-	bc	*	-	28	19				
	Hernösand	10184	32	N	2	o	10170	0	34		NNW	4	-	bc	*	6	39	30				
FRANCE, &c.	Stockholm	10111	34	ENE	2	o	10104	0	34		ENE	2	-	bc	*	6	34	32				
	Wisby	10096	36	E	2	o	10095	0	36		E	2	-	bc	*	trace	36	32				
	Karlstad	10126	34	-	0	o	10122	0	30		NNE	2	-	bc	*	trace	36	27				
	Petrograd (G.M.T.)																					
	The Helder	10010	41	ENE	6	o	10008	0	43	+4	NE	5	-	bc	3	-	43	39				
	C. Gris Nez	9943	48	ENE	7	bc	9993	+3	45	-2	NNE	8	-	bc	8	5	50	45				
	La Hève	9979	50	NE	4	o	10039	*	46	0	N	5	-	bc	6	5	52	43				
	Ushant																					
	Brest (St. Mathieu)	10012	51	N	3	bc	10077	+1	48	-6	NE	3	-	bc	3	6	59	48				
	Rochefort (Ile d'Aix)	10006	54	N	7	o	10017	0	52	-4	NNW	3	-	bc	*	2	59	50				
SOUTHERN EUROPE.	Biarritz	10083	58	W	6	o	10053	-2	50	-4	S	3	-	bc	4	13	59	48				
	Paris	9928	50	SSW	3	o	9987	+3	45	-5	NNW	2	-	bc	*	4	54	45				
	Belfort	10020	46	WSW	5	bc	10029	*	45	+4	SW	6	-	bc	*	4	50	39				
	Lyons	10037	50	SSW	4	bc	10067	*	44	-2	S	2	-	bc	*	-	55	44				
	Nice																					
	Perpignan	10091	55	W	1	bc	10082	0	48	0	-	0	S	bc	*	1	64	48				
	Sanguinaire																					
	Corunna (7 a.m.)	10149	57	W	5	bc	10095	+2	54	0	NNE	5	-	bc	5	13	59	46				
	Madrid (8 a.m.)	10144	52	WSW	3	o	10117	0	43	-3	-	0	-	bc	*	3	55	43				
	Lisbon (9 a.m.)	10179	57	WSW	4	o	10141	0	54	-3	NNW	2	-	bc	4	1	61	52				
Gibraltar	10169	60	W	4	bc	10135	*	58	-3	W	4	-	bc	1	0.3	65	57					
Rome																						
Malta (8 a.m.)																						
Azores (Horta, 8 a.m.)	10237	*	SSE	4	o	10188	-2	68	+2	SSW	6	-	bc	4	-	73	66					
Madeira (Funchal)	10231	66	N	1	bc	10210	0	61	+2	?	?	-	bc	?	-	68	59					
South Farnborough																						
Pilot Balloon Ascent at about 7 a.m.																						
Wind at 2200 metres. N by E. 40 miles per hour.																						
" "																						

RAINFALL.			
Equivalents of Millimetres in Inches.			
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69</





FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.

FORECAST DISTRICTS.



**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.

South Coast.

North Coast.

Signals hoisted this morning.

South Coast.

North Coast.

No Warnings Issued.

Western Channel and Bay 11

**FURTHER OUTLOOK.**

0 } Light winds, variable to Southerly; some showers; rather low temperature.

2 } Wind between North and North-East, decreasing gradually in force later in day; some local showers, otherwise fair generally; temperature rather low.

6 } Same as Nos. 0 and 1.

7 } Wind North-Easterly or Northerly, moderate to light, then variable or Southerly; fair to-day, less so to-morrow; rather cold.

9 } Wind mainly from some Southerly point, light, then increasing; fair, then showery or rainy, with rising temperature.

11 } North-Easterly to variable winds, moderate or light; sea moderate; mostly fair, some showers.

Millibars

1050

1040

1030

1020

1010

1000

990

980

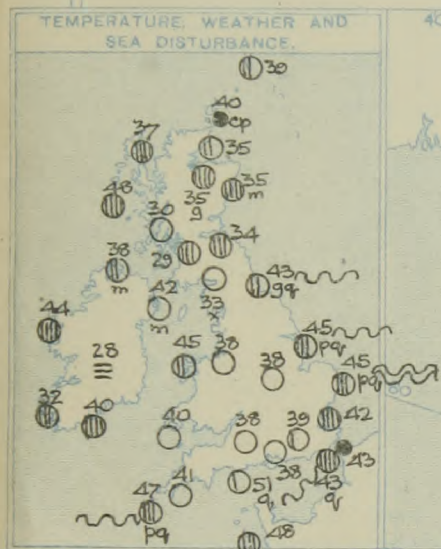
970



# SYNOPTIC CHART FOR 7 a.m., TUESDAY, 2<sup>ND</sup> NOVEMBER, 1915.

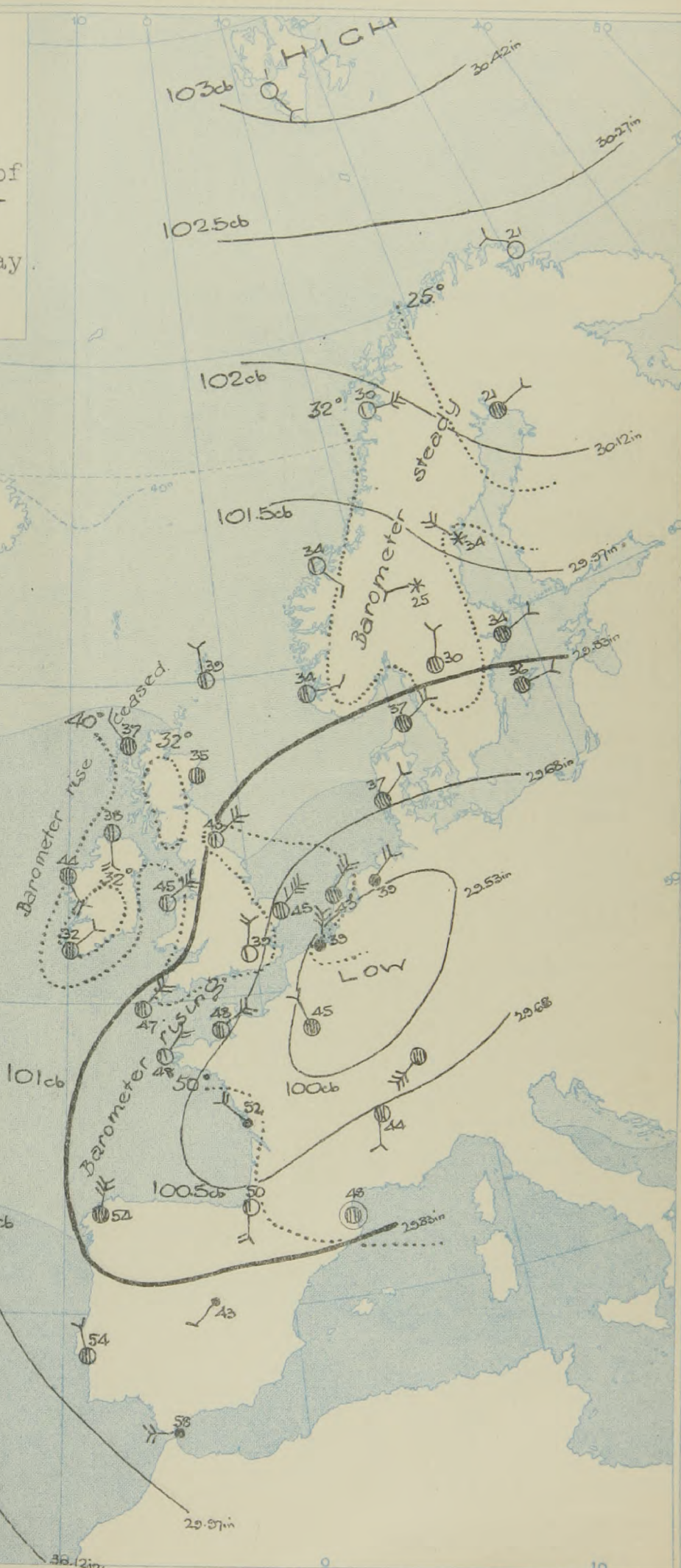
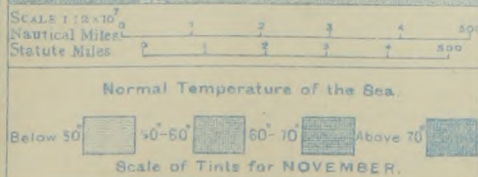
## GENERAL INFERENCE

There are some slight indications of the existence of a depression to the north-westward of Ireland. The winds on our south-eastern coasts will decrease gradually in force later in the day.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm  
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky. ○ sky ½ clouded. ○ sky ¾ clouded.  
 ○ sky ¾ clouded. ○ overcast sky. ○ rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 T, thunderstorm.  
**SEA DISTURBANCE.**—Rough ~~~. High ~~~~.





## DAILY WEATHER REPORT.

2nd November.

1915.

REPORTS  FOR  YESTERDAY.  
--

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm. & .	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. & .	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		° F.	° F.						° F.	° F.			
Scotland.	Oban ...	50	36	b	b	6.4	Tanbridge Wells ...	24	49	46	oc	ocd	0
	Banff ...	46	30	b bc	b bc	4.8	Margate ...	12	51	45	oc	oc	0
	Carnoustie ...						Ramsgate ...	12	50	44	oc	oc	0
	St. Andrews ...	47	42	*	*	2.6	Hastings ...	13	52	48	oc	oc	0
Eng. N.E.	Harrogate ...	45	41	0	oc	1.5	Bexhill-on-Sea ...						
	Skegness ...	49	45	0	oc	0.0	Eastbourne ...	17	53	49	0	oc	
Eng. N.W.	Morecambe ...			oc	oc	2.4	Seaford ...	13	53	45	oc	oc	
	Blackpool ...	49	42	oc bc	oc bc	2.3	Brighton ...	15	52	41	oc	oc	
	Southport ...	49	42	oc bc	oc bc	2.3	Worthing ...	8	52	50	0	oc	
Midlands.	Buxton ...	48	32	cr	oc	0.0	Littlehampton ...	13	54	42	0	0	
	Leamington Spa ...	48	43	oc	oc	0.0	Bognor ...	7	53	48	oc	oc	
	Malvern ...	48	44	q	q	0.0	Southsea ...	8	51	48	0	0	
	Ross-on-Wye ...	47	45	0	0	0.0	Bournemouth ...	4	51	47	0	0	
Wales.	Rhyl ...	49	43	bc	oc	0.3	Weymouth ...	20	51	47	oc	oc	
	Colwyn Bay ...	46	45	bc	bc	0.0	Torquay ...	2	50	48	oc	oc	
	Llandudno ...						Paignton ...	22	50	47	oc	oc	
	Aberystwyth ...	50	46	oc	oc	2.0	Falmouth ...	5	51	47	oc	oc	
	Tenby ...	50	46	bc	0	0.8	Penzance ...	5	51	49	oc	oc	
England.	Cromer ...	49	45	0	0	0.0	Newquay ...						
	Lowestoft ...	50	47	0	0	0.0	Ilfracombe ...	7	52	48	oc	oc	
	Felixstowe ...	50	47	oc	oc	0.0	Weston-super-Mare ...	6	49	46	oc	oc	
	Walton-on-Naze ...	51	48	oc	oc	0.0							
	Southend-on-Sea ...	53	45	r	r	0.0							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
				24 HOURS ENDED 9 a.m. TO-DAY.						
Greenwich (Royal Obs.) ...	% 92	% 84	Hr. 0.0	* F. 50	* F. 39	* F. 35	mm. § 8	a. m. 0.0	a. c. o. 0.0	o. c. 0.0
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	95	88	0.0	51	40	37	8	0.0	a. m. 0.0	o. c. b. 0.0
Camden Sq. (Brit. Rainfall)	92	86	0.0	50	39	36	8	0.0	0.0	*
Hampstead (Reservoir) ...	*	88	0.0	47	36	26	10	0.0	0.0	0.0
Richmond Park	*	*								
Kew. (See front page.)				VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)	93	86	0.0	129 Joules		3.7 Milliwatts.		13 Milliwatts.		

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON  
AND SUNSET FOR STATIONS IN THE UNITED KINGDOM  
TO-DAY AND TO-MORROW.

2nd November 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.52	11.37	4.22
Greenwich ...	6.57	11.44	4.31
Wick ...	7.32	11.56	4.20
Valencia ...	7.39	12.25	6.11

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded;  
c. sky three parts clouded; d. drizzling 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. snow; t. thunder;  
u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

## Additional Observations for Yesterday.

STATIONS.	Rain- fall.	TEMPERATURE.		WEATHER.		S. sh. Yes da
		In Screen.	Night Min. on Grass.	Night.	Fore- noon.	
		Max.	Min.			
Dublin to 4 p.m.						
Darwen to 9 p.m.	0.4	45	39	38	oc	0
Manchester "						
Birmingham "						
Oxford to 8 p.m.		48	43	40	oc	0
Teignmouth to 9 "	16	53	47	47	oc	0
Plymouth "						
S. Kensington (Museum Grounds to 6 p.m.)	22	50	47	47	oc	0

## NOTES ON YESTERDAY'S WEATHER.

Rain fell very generally in England, and little or no sunshine was recorded in any part of the Kingdom. Temperature touched or exceeded 50° in many localities. Aurora was observed at night over a large area in Scotland.

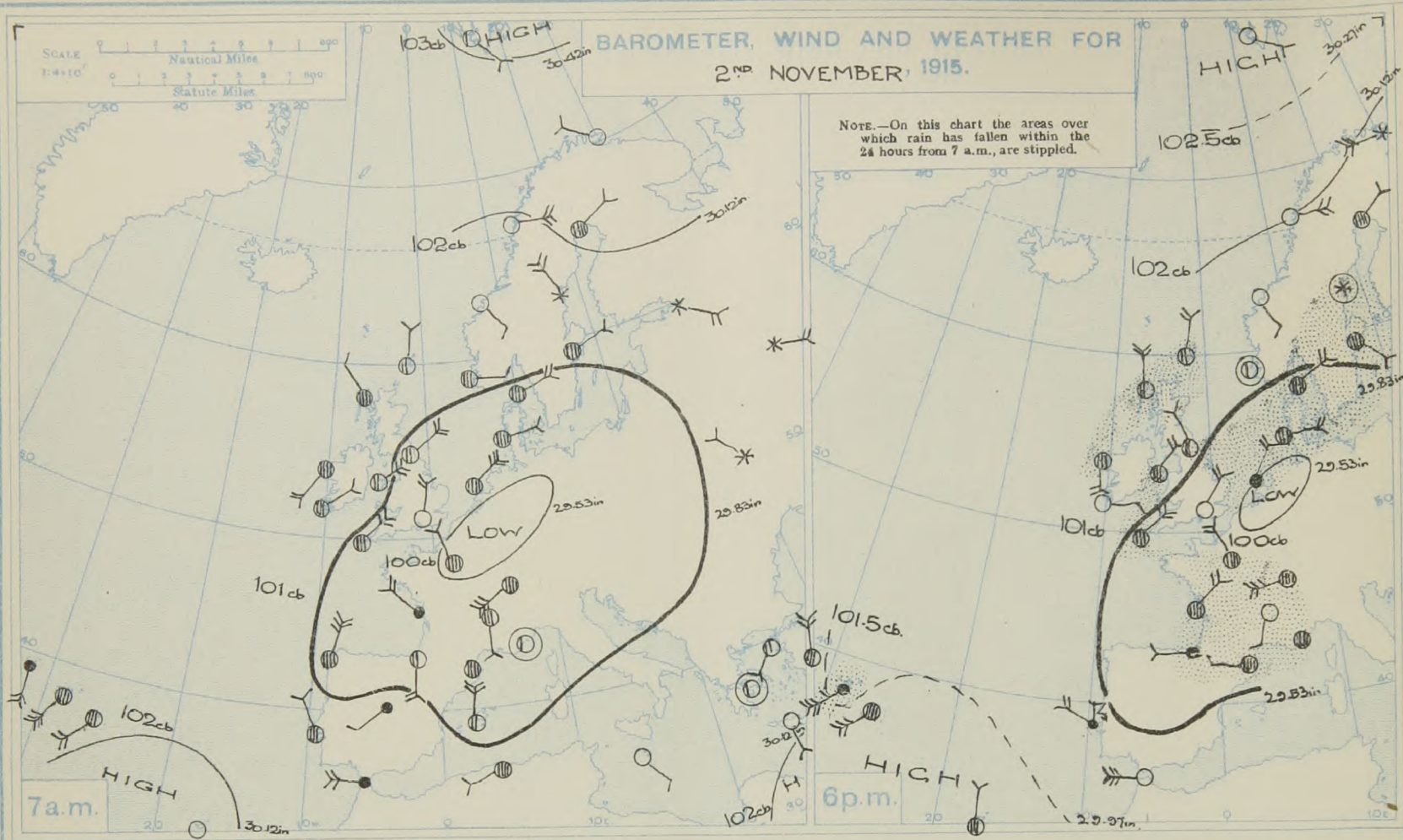
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Wednesday  
and November 1915.

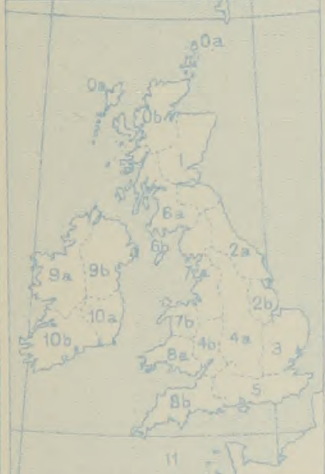
\* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.



**STORM WARNINGS.**  
The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay 11

- |   |   |   |  |
|---|---|---|--|
| 0 | a | } | Wind between North-East and East, light; mostly fair, some local showers; cold, some fog early.                                    |
|   | b |   |  |
| 1 | a | } | Northerly winds, light or moderate, fresh or strong on coast; some showers, otherwise fair; cold.                                  |
|   | b |   |  |
| 2 | a | } | Northerly winds, light or moderate; fair generally, some local showers; cold. Frost inland at night, fog or mist in early morning. |
|   | b |   |  |
| 3 | a | } | Same as Nos. 0 and 1.  |
|   | b |   |  |
| 4 | a | } | Light variable or Northerly winds; local showers, otherwise fair; cold. Frost inland at night, with fog in places.                 |
|   | b |   |  |
| 5 | a | } | Wind variable or light Northerly; mostly fair; cold; frost inland at night.  |
|   | b |   |  |
| 6 | a | } | Northerly and North-Easterly winds, light; sea moderate to smooth; fair generally.   |
|   | b |   |  |

FURTHER OUTLOOK.

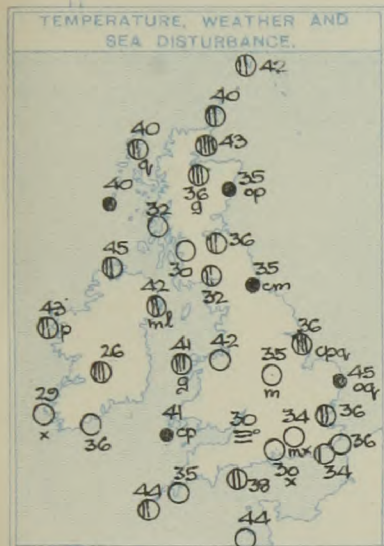
Millibars  
1050  
1040  
1030  
1020  
1010  
1000  
990  
980  
970



# SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 3<sup>RD</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

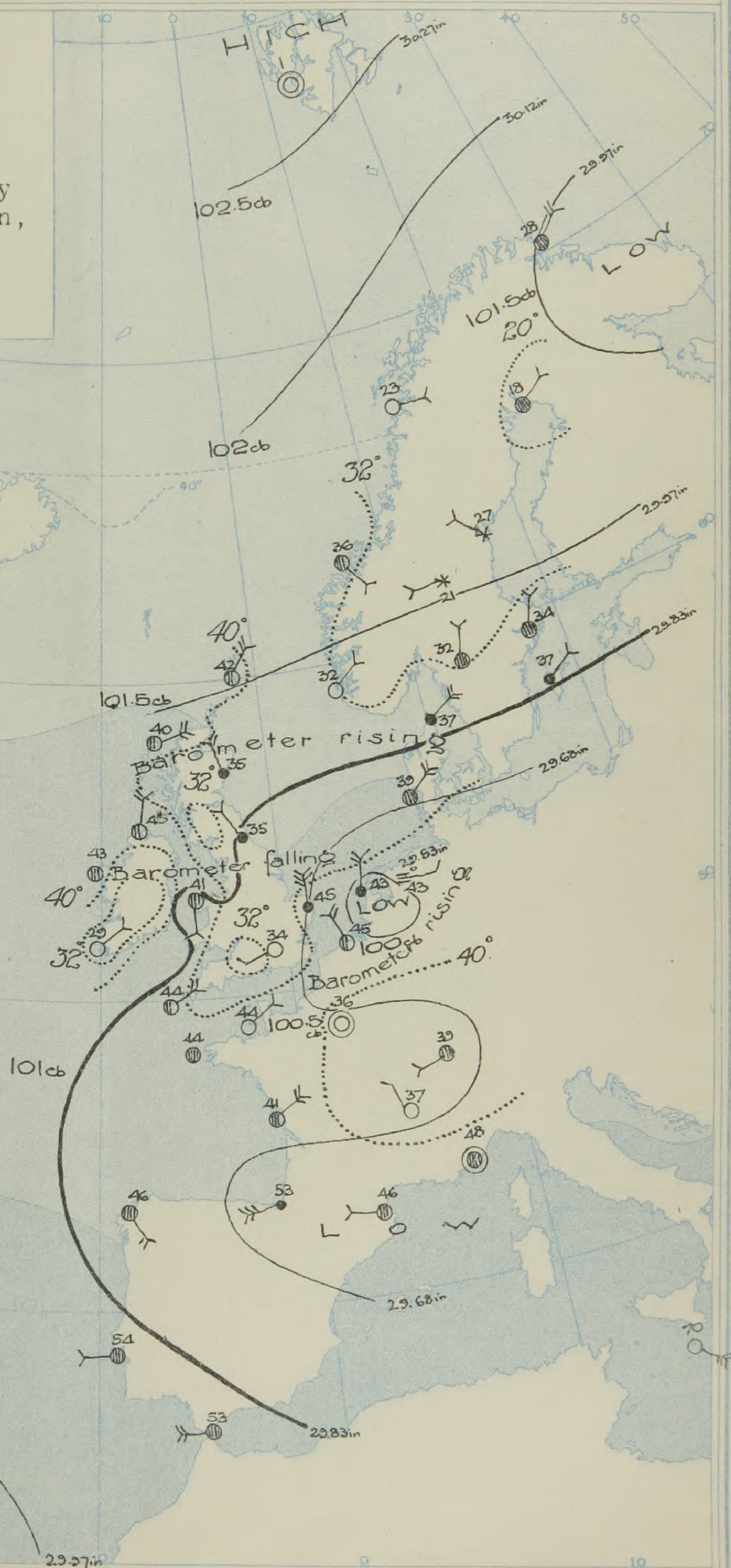
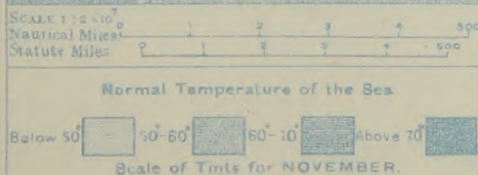
The depression over Holland will probably move very slowly in a northerly direction, and decrease still further in intensity.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm  
**TEMPERATURE.**—Given in degrees Fahrenheit.  
 Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.  
 ○ sky 3/4 clouded. ○ overcast sky. ○ rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 T, thunderstorm.  
**SEA DISTURBANCE.**—Rough wavy. High wavy.

H I C H





## DAILY WEATHER REPORT.

Wednesday, 3<sup>rd</sup> November 1915.REPORTS  
FOR  
YESTERDAY.2<sup>nd</sup> November.

REPORTS  FOR  YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain- fall. Milli- metres.	TEMP.	
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.							
																			° F.
	Petrograd	1017.5	32	E	4	0	1015.5	-2	30	+2	NE	3	-	5	4	34	28		
	Nice	1005.8	50	W	5	6	1008.3	+2	50	-1	-	0	6	2	-	57	45		
	Sanguinaire	*	38	NW	4	0	*	*	58	.	E	4	*	0	4	-	63	54	
	Matla	*	*	*	*	*	1016.2	+1	63	+4	SSE	1	-	3	0	-	72	64	
2 <sup>nd</sup> November.																			

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		° F.	° F.						° F.	° F.			
Scotland.							Tunbridge Wells ...	0.3	49	40	bc, bc	bc, bc	2.7
	Oban ...	47	29	bc	bc	3.9	Margate ...	9	46	43	bc	bc	0.0
	Banff ...	46	29	chp	bc, c	1.3	Ramsgate ...		49	41	bc	bc	2.1
	Carnoustie ...			*	*		Hastings ...	1	48	41	bc, c	bc	
	St. Andrews ...			*	*		Bexhill-on-Sea ...						
Eng. N.E.							Eastbourne ...						
	Harrogate ...	44	35	b	bc, b, c	5.2	Seaford ...	0.3	49	41	b	b	6.6
	Skegness ...	47	42	c, bc	ch, bc	2.2	Brighton ...	0.1	49	41	b, bc	bc, b	7.3
Eng. N.W.							Worthing ...						
	Morecambe ...	44	36	b	b	7.3	Littlehampton ...		54	40	b	b	8.0
	Blackpool ...	46	33	b	b	8.3	Bognor ...		49	40	b	b	6.6
	Southport ...	46	34	b	b	8.4	Southsea ...		49	39	b	b	7.5
Midlands.							Bournemouth ...		48	37	b	b	8.1
	Buxton ...	41	34	bc	bc	5.0							
	Leamington Spa ...	47	37	c, bc	bc	4.6							
	Malvern ...	45	35	bc	bc, b	5.2							
	Ross-on-Wye ...	42	34	bc	bc, b	4.0							
Wales.							Weymouth ...		48	38	z, b	b, z	7.5
	Rhyl ...	47	42	bc	bc, bc	7.6	Torquay ...		51	40	b	b	7.8
	Colwyn Bay ...	47	43	bc	bc	5.8	Paignton ...		49	40	b	b	7.7
	Llandudno ...						Falmouth ...		49	40	b	b, bc	6.8
	Aberystwyth ...	47	36	o, bc	bc, o	6.5	Penzance ...	0.2	51	44	bc	bc	6.2
	Tenby ...	47	38	b	bc	4.9	Newquay ...						
England, E.							Ilfracombe ...						
	Cromer ...	47	42	o	o, bc	0.2	Weston-super-Mare ...		49	39	b, bc, b	b, bc	6.5
	Lowestoft ...	48	44	o, bc	o, c	0.0							
	Felixstowe ...	47	41	bc	bc	0.0							
	Walton-on-Naze ...	47	42	c, bc	bc	0.1							
	Southend-on-Sea ...	45	40	c, bc, b	bc, bc	?							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	6 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 77	% 84	Hr. 3.3	* F. 48	* F. 34	* F. 28	mm. § -	bc	bc	bc, m, x
City (Bunhill Row) ...	% *	% *	3.7	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	82	88	3.3	50	35	31	-	bc	bc	bc
Camden Sq. (Brit. Rainfall)	76	82	4.6	49	34	31	Trace	bc	bc	*
Hampstead (Reservoir) ...	% *	83	6.7	47	30	18	-	bc	bc	bc, x
Richmond Park ...	% *	% *	3.9							
Kew. (See front page.)										
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
				Total.		Average Rate.		Max. Rate.		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				47.5 Joules		13.8 Milliwatts.		33 Milliwatts.		
S. Kensington (Roof of M.O.)	74	82	4.6							

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON  
AND SUNSET FOR STATIONS IN THE UNITED KINGDOM  
TO-DAY AND TO-MORROW.

2 <sup>nd</sup> November 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.54	11.37	4.40
Greenwich ...	6.56	11.37	4.38
Wick ...	7.11	11.44	4.29
Valencia ...	7.35	11.56	4.17
	7.41	12.05	4.09
	7.42	12.05	4.07

## NOTES ON YESTERDAY'S WEATHER.

Much bright sunshine was recorded except on the south-east and east coasts of England. Temperature remained below 50° except at a few places. Rain fell in the east and north, and locally elsewhere.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at M.O. and at the bookstalls at certain Railway Termini in London.



STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.			
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-2.	Rain- fall. Milli- metres.	TEMP.		WEATHER.						
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning	Afternoon.	Night.				
Lerwick ...	1019.4	42	NNE	3	c	1018.2	0	40	-2	NNW	2	-	c	2	1	45	37	bc	bc	c	Hours.			
Deerness ...	1018.6	40	NE	3	bc	1019.3	0	39	-1	NNW	3	-	o	2	2	45	37	bc	bc	bc	4.7			
Stornoway ...	1019.6	40	ENE	3	bc	1021.6	+1	39	-1	N	1	-	c	1	2	47	35	bc	bc	bc	6.3			
Castlebay (Barra Isd.)	1017.4	44	E	4	c	1021.3	+2	42	+2	N	2	-	bc	2	1	46	38	bc	bc	bc	5.1			
Glasgow ...	1016.8	36	ENE	2	bc	1020.0	+3	34	+4	WSW	1	NE	bc	-	-	42	28	bc	bc	bc	4.7			
Eskdalemuir ...	?	33	-	0	bc	1019.1	+2	34	+2	NNE	3	E	bc	-	-	42	30	bc	bc	bc	5.3			
Malin Head ...	1015.0	45	E	3	c	1019.8	+2	44	-1	E	2	E	bc	2	5	47	38	bc	bc	bc	3.0			
Blackod Point	1013.4	41	ENE	2	bc	1019.8	+3	38	-5	ENE	3	E	bc	3	6	45	35	bc	bc	bc	2.7			
Valencia ...	1011.4	43	NE	2	c	1016.2	+4	40	+11	E	3	-	bc	-	-	48	29	bc	bc	bc	2.7			
Roches Point	1012.8	40	NE	1	bc	1015.4	0	38	+2	N	2	-	bc	2	0.9	52	36	bc	bc	bc	5.4			
Birr Castle ...	1012.3	36	NNW	1	c	1018.6	0	31	+5	NE	1	-	bc	-	-	44	26	bc	bc	bc	5.4			
Donaghadee ...	1013.6	44	E	4	bc	1018.5	+2	42	0	E	4	E	bc	4	-	45	41	bc	bc	bc	0.5			
Liverpool (Widston)	1013.2	41	NE	2	0	1016.6	+2	35	0	NNE	1	-	bc	1	-	42	34	bc	bc	bc	0.2			
Holyhead ...	1012.1	45	E	4	bc	1016.4	+1	44	+3	E	4	-	bc	3	5	46	35	bc	bc	bc	4.6			
Pembroke (St. Ann's)	1011.1	42	NE	3	bc	1014.2	+2	40	-1	NE	3	NE	bc	3	0.1	49	37	bc	bc	bc	7.5			
Scilly (St. Mary's)	1008.8	45	E	2	c	1008.6	0	45	+1	ENE	6	NE	bc	5	-	50	42	bc	bc	bc	5.3			
Falmouth ...	1010.5	41	NE	1	bc	1010.4	0	40	+5	NNE	4	NE	bc	4	-	48	35	bc	bc	bc	4.9			
Jersey (St. Aubin)	1008.1	46	NE	2	bc	1007.8	0	46	+2	E	3	-	bc	2	-	50	43	bc	bc	bc	5.3			
Portland Bill ...	1009.6	42	NNE	2	bc	1010.1	0	41	+3	NE	5	NE	bc	4	-	46	37	bc	bc	bc	5.3			
Dungeness ...	1007.7	42	NNW	2	bc	1009.2	+1	43	+9	NNE	3	NE	c	2	-	49	34	bc	bc	bc	5.3			
Dover ...	1007.7	43	NNW	5	bc	1009.6	+2	45	+9	NNW	4	N	c	3	0.2	48	36	bc	bc	bc	5.3			
Wick ...	1018.3	42	SE	2	bc	1019.7	+1	34	-9	N	2	-	c	3	3	45	34	bc	bc	bc	5.3			
Nairn ...	1018.5	36	NE	1	bc	1020.2	0	34	-2	-	0	-	bc	1	1	43	32	bc	bc	bc	5.3			
Aberdeen ...	1017.8	36	NNW	3	bc	1019.1	+1	36	+1	NNW	4	NE	bc	2	4	44	34	bc	bc	bc	5.3			
Leith ...	1016.2	41	NNE	5	bc	1018.3	+1	38	+2	NE	1	NE	c	4	4	43	34	bc	bc	bc	5.3			
Tynemouth ...	1013.2	45	ENE	2	bc	1016.2	+1	44	+9	NE	4	N	bc	5	6	45	35	bc	bc	bc	5.3			
Spurn Head ...	1010.9	45	ENE	5	bc	1013.8	+1	45	+9	NE	5	-	bc	5	4	47	36	bc	bc	bc	5.3			
Yarmouth ...	1007.5	47	NNE	5	bc	1009.8	0	47	+2	NE	5	NE	bc	5	2	51	45	bc	bc	bc	5.3			
Clacton-on-Sea	1008.3	42	NW	2	bc	1010.6	+2	42	+6	NNW	3	NE	bc	2	-	48	35	bc	bc	bc	5.3			
Nottingham ...	1011.3	41	NE	3	bc	1014.4	0	38	+3	NNE	3	N	bc	-	trace	47	35	bc	bc	bc	5.3			
Bath ...	1010.6	36	N	-	bc	1013.0	0	36	+6	NE	2	NE	bc	-	-	47	29	bc	bc	bc	5.3			
Sth Farnborough	1009.3	43	NW	1	0	1011.8	+2	36	+6	N	1	-	bc	-	-	46	30	bc	bc	bc	5.3			
London (Kew Obsy.)	1010.1	45	N	2	bc	1012.2	+1	41	+7	NNE	2	-	bc	-	-	47	34	bc	bc	bc	5.3			
Spitsbergen ...	1024.6	0	-	0	bc	1022.6	+1	5	+4	-	0	-	bc	-	-	3	4	bc	bc	bc	5.3			
Vardö ...	1017.6	30	NE	4	bc	1021.0	+2	28	0	NE	1	-	bc	3	-	30	21	bc	bc	bc	5.3			
Bodö ...	1018.0	23	E	2	bc	1016.3	0	25	+2	E	6	-	bc	2	-	25	19	bc	bc	bc	5.3			
Christiansund	1017.6	36	E	3	0	1016.6	0	34	-2	SE	3	-	bc	2	-	37	34	bc	bc	bc	5.3			
Skudesnaes ...	1013.7	36	-	0	bc	1014.1	0	32	0	NE	1	-	bc	1	-	41	32	bc	bc	bc	5.3			
Færder (X'ania Fjord)	1016.0	34	NE	3	0	1015.3	0	34	0	NNE	4	-	bc	1	-	36	32	bc	bc	bc	5.3			
The Scaw (Skagen)	1012.3	27	E	4	bc	1012.0	0	37	0	NE	3	-	bc	3	4	39	37	bc	bc	bc	5.3			
Blaavands Huk	1006.9	43	E	2	0	1009.0	+1	41	+2	NNE	3	-	bc	3	6	43	37	bc	bc	bc	5.3			
Haparanda †	1019.3	16	N	2	bc	1021.5	+3	9	-9	N	2	-	bc	-	-	23	7	bc	bc	bc	5.3			
Hernösand †	1018.3	27	N	2	0	1019.0	0	21	-6	N	2	-	bc	-	-	27	21	bc	bc	bc	5.3			
Stockholm †	1015.4	34	NNE	2	0	1016.0	+1	30	-4	NNE	2	-	bc	-	-	36	30	bc	bc	bc	5.3			
Wisby ...	1013.1	41	NE	2	bc	1013.6	0	39	+2	E	2	-	bc	-	-	39	36	bc	bc	bc	5.3			
Karlstad ...	1016.4	32	NE	2	0	1015.7	0	30	-2	NNE	2	-	bc	-	-	34	27	bc	bc	bc	5.3			
Petrograd	(5 a.m. G.M.T.)																				5.3			
The Helder ...	1004.7	43	NNE	1	0	1008.4	+2	45	+2	N	1	-	bc	-	-	45	43	bc	bc	bc	5.3			
C. Gris Nez ...	1007.5	46	NNW	5	bc	1008.3	+2	48	+5	N	7	-	bc	6	-	50	43	bc	bc	bc	5.3			
La Hève ...	1007.8	46	NNE	2	bc	1008.4	0	45	+2	ENE	2	-	bc	3	-	50	41	bc	bc	bc	5.3			
Ushant ...																					5.3			
Brest (St. Mathieu)	1008.7	45	ENE	3	c	1006.1	0	42	-2	E	3	-	bc	2	-	50	41	bc	bc	bc	5.3			
Rochefort (Ile d'Aix)	1006.1	48	ENE	3	0	1002.6	-2	45	+4	ASE	5	-	bc	-	-	54	41	bc	bc	bc	5.3			
Biarritz ...	1006.0	50	S	3	bc	998.7	-3	50	-3	SE	3	-	bc	1	8	54	45	bc	bc	bc	5.3			
Paris ...	1007.7	39	-	0	bc	1009.1	0	32	-4	-	0	-	bc	-	-	52	30	bc	bc	bc	5.3			
Belfort ...	1006.6	40	N	2	c	1010.6	0	34	-5	-	0	-	bc	-	-	50	32	bc	bc	bc	5.3			
Lyons ...																					5.3			
Nice ...	1007.0	46	-	0	bc	1005.3	+4	47	-1	-	0	-	bc	2	8	52	41	bc	bc	bc	5.3			
Perpignan ...	1004.7	50	NW	2	bc	1005.5	0	41	-5	-	0	-	bc	-	-	59	37	bc	bc	bc	5.3			
Sanguinaire †	1004.7	58	SW	3	0			57		NW	5	-	bc	5	16	59	48	bc	bc	bc	5.3			
Corunna (7 a.m.)	1003.5	54	SE	3	0		+3	57	+11	SW	4	-	bc	4	13	59	46	bc	bc	bc	5.3			
Madrid (8 a.m.)	1008.6	48	N	2	c	1002.0	+1	48	-	SE	1	-	bc	-	-	52	43	bc	bc	bc	5.3			
Lisbon (9 a.m.)																					5.3			
Gibraltar ...	1011.5	61	N	5	c	1006.4	0	60	+7	SW	6	-	bc	2	4	66	53	bc	bc	bc	5.3			
Rome ...																					5.3			
Malta (8 a.m.)						1016.6	+4	63	-7	NW	4	NW	bc	2	-	75	63	bc	bc	bc	5.3			
Azores (Horta, 8 a.m.)	1017.1	66	N	3	0	1016.6	+2	62	0	NNE	4	-	bc	3	3	66	61	bc	bc	bc	5.3			
Madeira (Funchal)	1012.2	66	N	3	bc	1008.0	0	63	0	N	3	-	bc	3	11	66	63	bc	bc	bc	5.3			
* South Farnborough.																					Aberdeen.			
Pilot Balloon Ascent at about 7 a.m.																					Pilot Balloon Ascent at about 8 a.m.			
Wind at 200 metres. NNE. 18 miles per hour.																					Wind at 2000 metres. NNE. 21 miles per hour.			
" "																								

## RAINFALL.

Equivalents of Millimetres.  
in Inches.

mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
19	0.75	44	1.73
20	0.79	45	1.77
21	0.83	46	1.81
22	0.87	47	1.85
23	0.91	48	1.89
24	0.95	49	1.93
25	0.98	50	1.97

\* South Farnborough.

† Pilot Balloon Ascent at about 7 a.m.

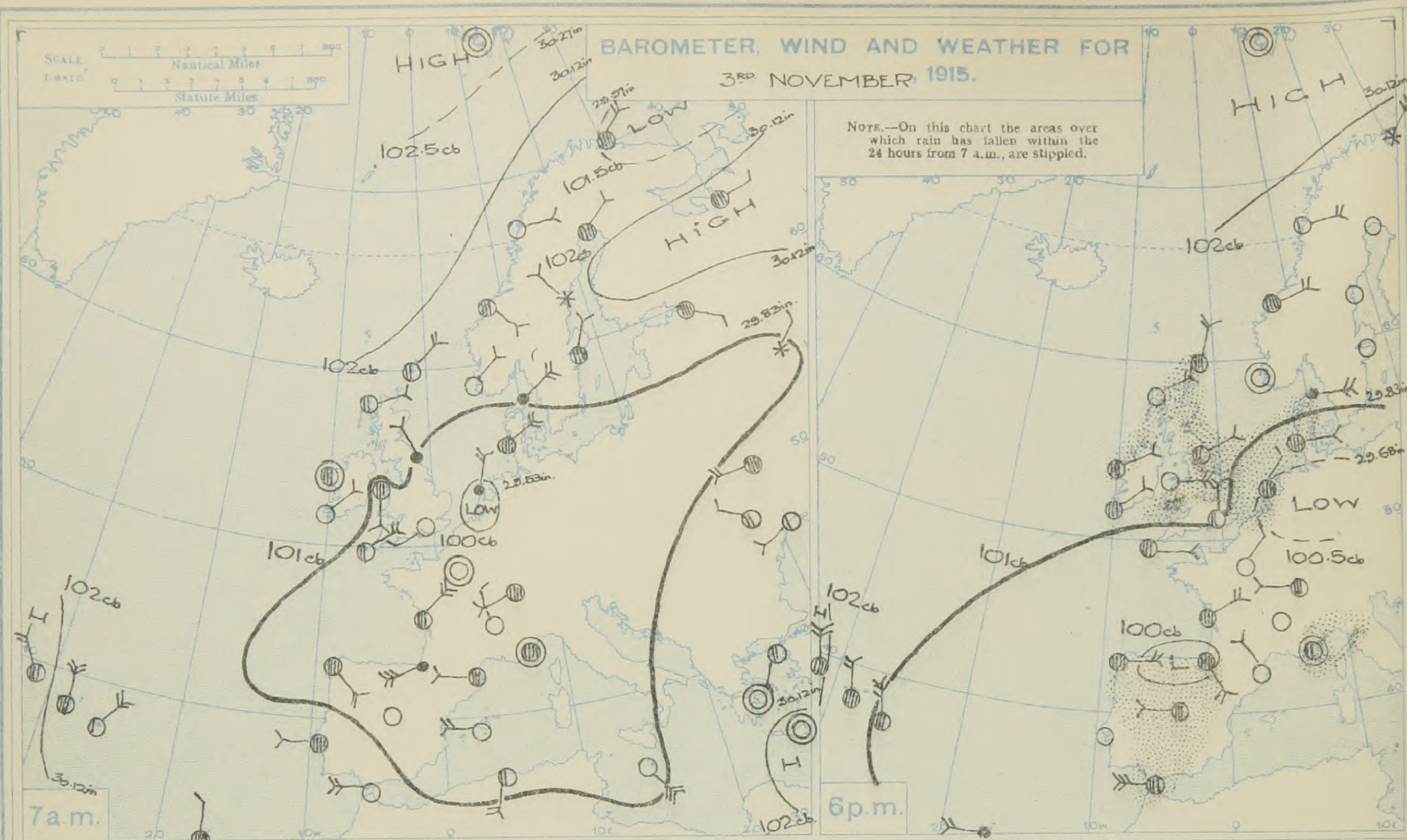
Aberdeen.

Pilot Balloon Ascent at about 8 a.m.

Wind at 200 metres. NNE. 18 miles per hour.

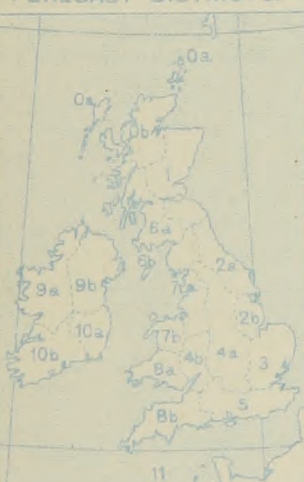
Wind at 2000 metres. NNE. 21 miles per hour.





# FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

## FORECAST DISTRICTS.



## STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay 11

- |    |   |   |  |
|----|---|---|--|
| 0  | a | } | Wind between North-West and North or North-East, light or moderate; mostly fair, some local showers; moderate temperature. |
|    | b |   |  |
| 1  |   | } | North-Easterly winds, moderate or light, fresh on coast; mostly fair, some showers on seaboard; moderately cold.           |
| 2  | a |   |  |
|    | b | } | North-Easterly and Northerly winds, light or moderate; fair generally; moderately cold.                                    |
| 3  | a |   |  |
|    | b | } | Light winds, mainly Northerly; fair generally; moderately cold.  |
| 4  | a |   |  |
|    | b | } | North-Easterly or Easterly winds, increasing somewhat in force later; fair generally; moderately cold.                     |
| 5  | a |   |  |
|    | b | } | Easterly and North-Easterly winds, light or moderate; fair generally; rather low temperature.                              |
| 6  | a |   |  |
|    | b | } | Easterly winds, moderate to strong; sea rather rough; mostly fair, some showers to-morrow.                                 |
| 7  | a |   |  |
|    | b | } |  |
| 8  | a |   |  |
|    | b | } |  |
| 9  | a |   |  |
|    | b | } |  |
| 10 | a |   |  |
|    | b | } |  |
| 11 | a |   |  |

## FURTHER OUTLOOK.

R. G. K. LEMPFEY, Superintendent, Forecast Division

NAPIER SHAW, Director

Millibars  
1050—31

1040

1030

1020

1010

1000

990

980

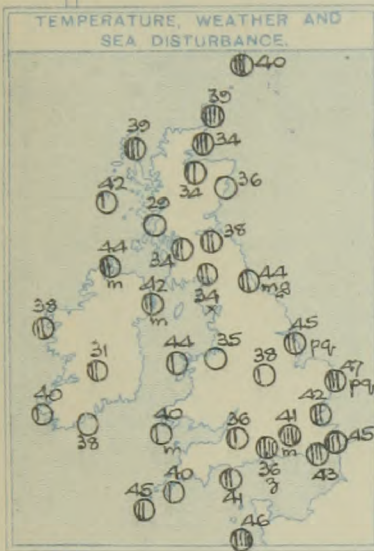
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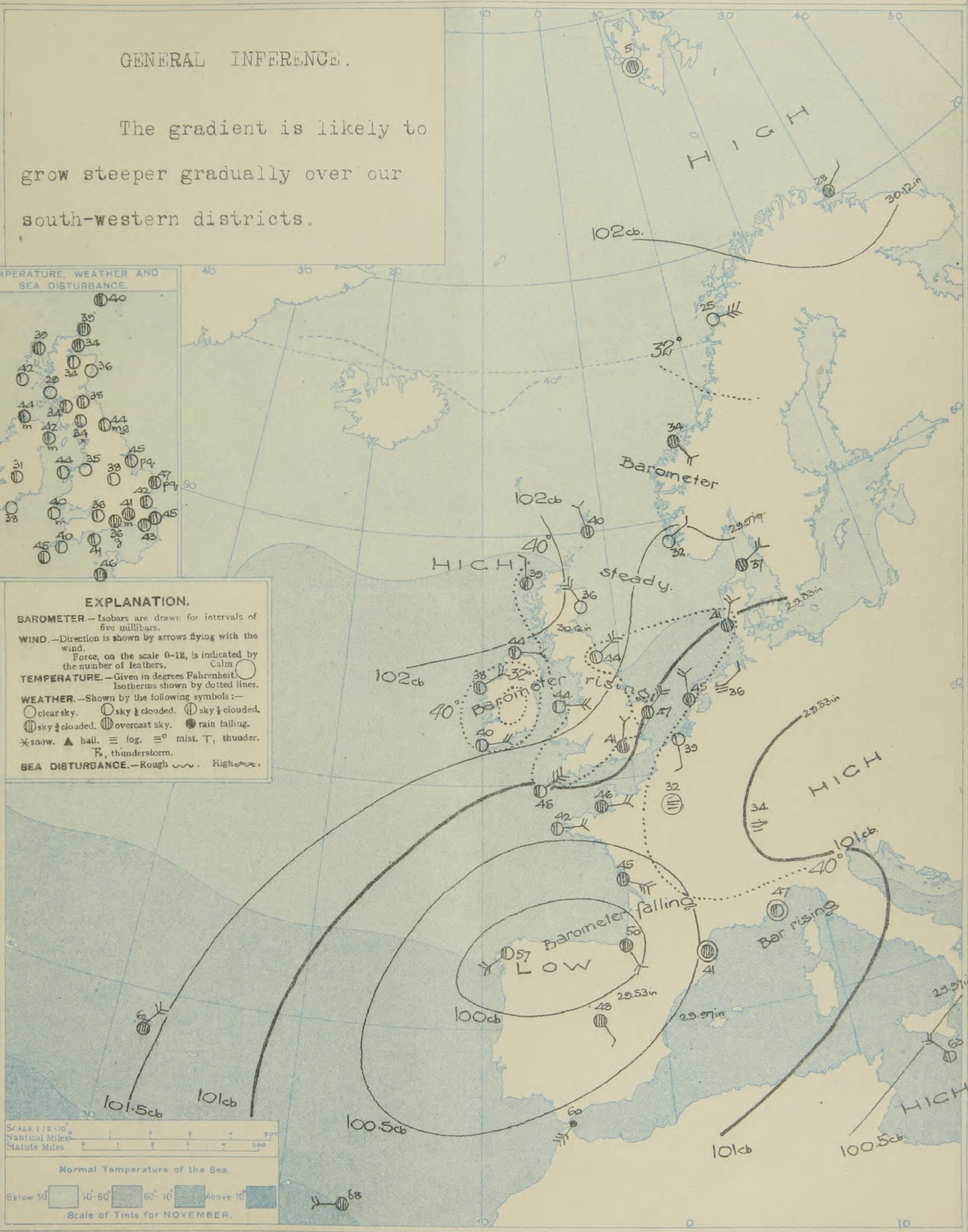
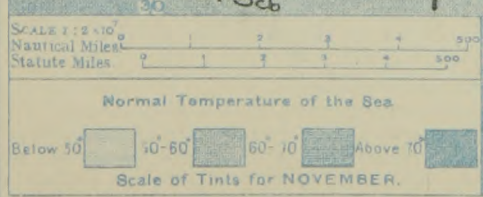
# SYNOPTIC CHART FOR 7 a.m., THURSDAY, 4<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

The gradient is likely to grow steeper gradually over our south-western districts.



**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm   
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 clear sky. sky 1/2 clouded. sky 3/4 clouded. overcast sky. rain falling.  
 snow. hail. fog. mist. T, thunder. R, thunderstorm.  
**SEA DISTURBANCE.**—Rough Higher





## DAILY WEATHER REPORT.

Thursday, 4th November, 1915.

REPORTS  FOR  YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain- fall. Milli- metres.	TEMP.	
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours. ° F.	Direc.	Force 0-12.							
	Petrograd	1015.0	32	SE	3	0	1012.5	0	32	+2	SE	1	-	0	+	-	34	30	

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.		° F.	° F.				(Tunbridge Wells ...		° F.	° F.			
Oban ...	-	46	30	b	b	5.8	Margate ...	-	49	30	bm. b	bc. c. b	5.3
Banff ...	4	36	32	bc	bc	5.1	Ramsgate ...	-	48	41	b	c	1.3
Carnoustie ...	-	-	-	-	-	-	Hastings ...	-	48	39	bc	bc	3.3
St. Andrews ...	4	44	28	*	*	1.2	Bexhill-on-Sea ...	-	48	36	b	b. bc	8.0
England, N.E.							Eastbourne ...	-	50	36	b	b. bm	7.6
Harrogate ...	1	42	31	b. bc	cp. bc	4.0	Seaford ...	-	48	34	b	b	6.6
Skegness ...	3	48	35	bc	p. c. b	3.2	Brighton ...	-	48	34	b	b. bc	7.7
England, N.W.							Worthing ...	-	48	34	b	b	7.5
Morecambe ...	-	43	30	b	b. bc. o	6.0	Littlehampton ...	-	54	40	b	b	7.2
Blackpool ...	-	48	28	b	bc	7.2	Bognor ...	0.1	48	34	b	b	6.5
Southport ...	-	45	27	bx. bc	bc. o	6.3	Southsea ...	-	48	36	b	b	6.1
Midlands.							Bournemouth ...	-	48	31	b	b	
Buxton ...	-	46	28	bc	bc	4.2	Weymouth ...	-	47	33	xz. bc. b	bz	5.3
Leamington Spa ...	-	55	33	b	b	7.1	Torquay ...	-	47	38	b	b	5.0
Malvern ...	-	42	24	bx	b. bc. m	5.9	Paignton ...	-	47	33	bc	bc. c	4.6
Ross-on-Wye ...	-	-	-	-	-	-	Falmouth ...	-	48	35	bc	bc. c	4.8
Wales.							Penzance ...	-	50	37	bc	b	5.0
Rhyl ...	-	46	28	b	bc. o	2.7	Newquay ...	-	47	34	2b	bz	6.1
Colwyn Bay ...	-	44	34	bc	c. bc	4.0	Ilfracombe ...	-	47	29	b	b	7.0
Llandudno ...	-	45	32	o. ct	bc. o	6.5	Weston-super-Mare ...	-	48	29	b	b	
Aberystwyth ...	-	47	29	bc	bc	4.8							
Tenby ...	-	-	-	-	-	-							
England, S.													
Cromer ...	3	48	44	op	op	1.2							
Lowestoft ...	4	50	48	c. op. c	c. op	3.0							
Felixstowe ...	-	49	36	bc. v	bc. v	5.5							
Walton-on-Naze ...	-	48	35	bc	bc. c	6.8							
Southend-on-Sea ...	-	48	34	w. b	b. bc. bz	5.0							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To-day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
	%	%	Hr.	* F.	* F.	* F.	mm. §			
Greenwich (Royal Obs.) ...	78	90	3.9	47	38	30	-	bc	c. o	o. bc. c.
City (Bunhill Row) ...	*	*	3.5	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	75	96	2.9	54	39	33	-	bc. o	o	o. bc. bc.
Camden Sq. (Brit. Rainfall)	75	90	3.7	48	37	33	-	bc	bc. c	*
Hampstead (Reservoir) ...	*	88	5.3	46	35	24	-	bc.	bc. c. c	bc. x. bc.
Richmond Park ...	*	*								
Kew. (See front page.)										
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
				Total.		Average Rate.		Max. Rate.		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				413 Joules		121 Milli-watts.		29 Milli-watts.		
S. Kensington (Roof of M.O.)	73	86	3.8							

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

4th & 5th November 1915.			
	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	6.56	11.27	4.18
Greenwich ...	6.58	11.27	4.16
Wick ...	7.3	11.44	4.25
Valencia ...	7.38	11.58	4.14
	7.40	11.56	4.12
	7.43	12.25	5.7
	7.45	12.25	5.5

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
	mm. §	° F.	° F.	° F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								
Manchester "	0.2	45	26	*	bca	fxc	c. b	0.3
Birmingham "	-	45	31	22	*	c	c b. b	4.1
Oxford to 8 p.m.	*	47	32	23	bm. b	b	bcac	*
Teignmouth to 9 "								
Plymouth "								
S. Kensington (Museum Grounds to 6p.m.)	-	47	35	26	b. bm	bcc	o. c. o	*

## NOTES ON YESTERDAY'S WEATHER.

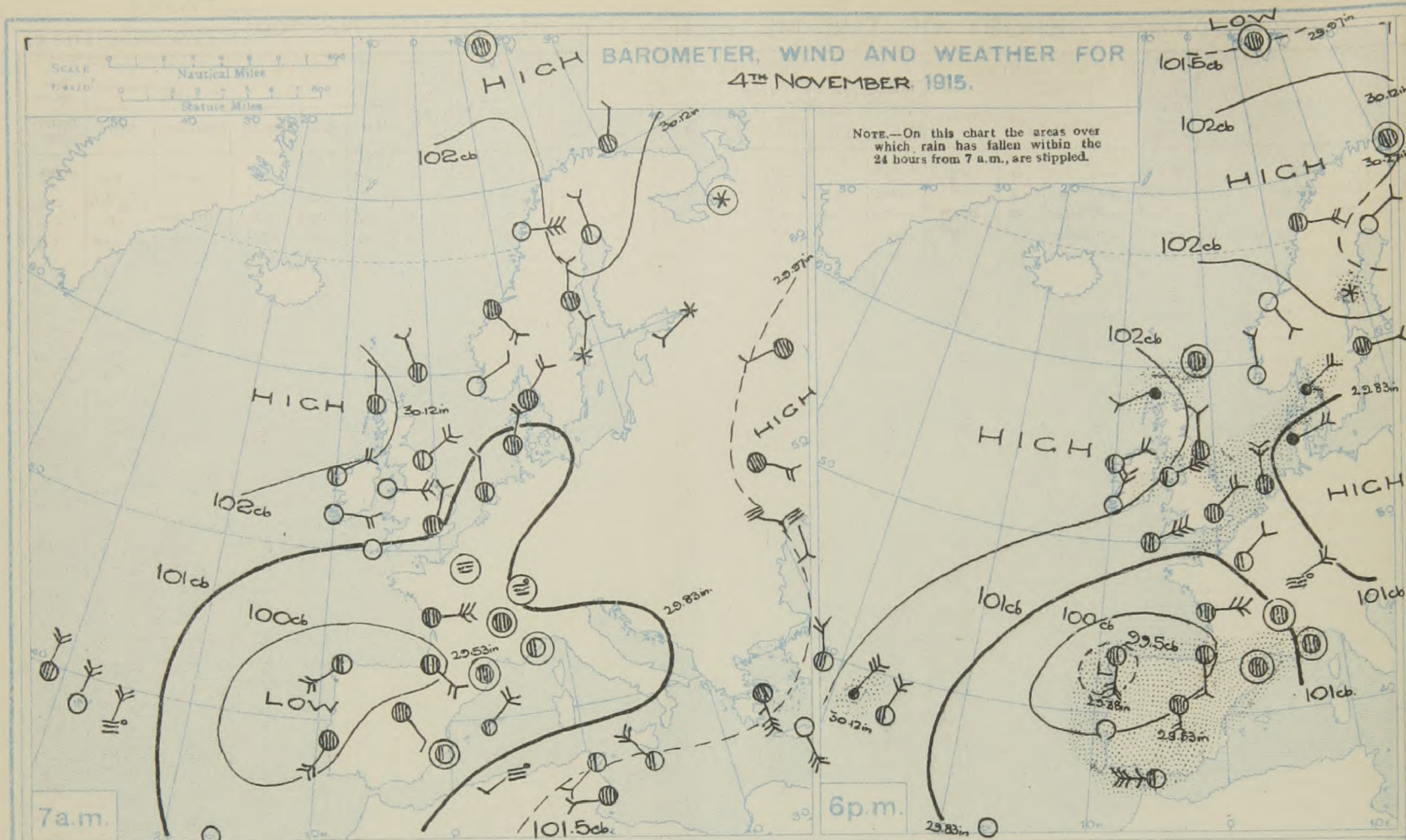
Temperature rose to about 50° in a few localities. A considerable amount of bright sunshine was recorded in most districts, but several places reported a little rainfall.

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‡ The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.



**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.

South Cone.

North Cone.

Signals hoisted this morning.

South Cone.

North Cone.

No Warnings Issued.

Western Channel and Bay

- |    |   |   |  |
|----|---|---|--|
| 0  | a | } | Light winds, mainly Northerly; mostly fair, some local showers; normal temperature.                                |
| 1  | b |   |  |
| 2  | a | } | Northerly and North-Easterly winds, light or moderate; cloudy, some local showers; temperature about normal.       |
| 3  | b |   |  |
| 4  | a | } | Northerly and North-Easterly winds, light or moderate; mostly fair, dull at times, local showers; moderately cold. |
| 5  | b |   |  |
| 6  | a | } | Same as Nos. 0 and 1.  |
| 7  | b |   |  |
| 8  | a | } | Same as Nos. 2 and 3   |
| 9  | b |   |  |
| 10 | a | } | North-Easterly winds, light to fresh; some local showers, otherwise fair; rather cold.                             |
| 11 | b |   |  |
|    | a | } | Light variable or Northerly winds, local showers, but fair generally; rather cold.                                 |
|    | b |   |  |
|    | a | } | North-Easterly winds, moderate or fresh; sea rather rough; mostly fair, some local showers.                        |
|    | b |   |  |

FURTHER OUTLOOK.

R. G. K. LEMPERT, Superintendent, Forecast Division.

NAPIER SHAW, Director.

Millibars

1050—31

1040

1030

1020

1010

1000

990

980

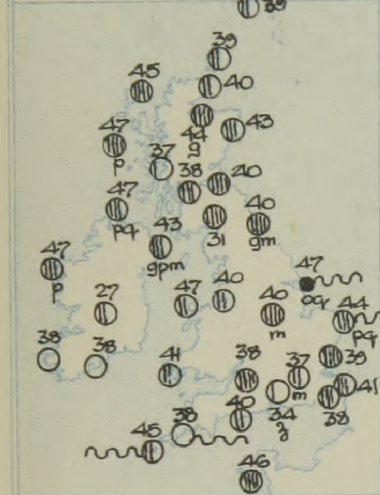
970



# GENERAL INFERENCE.

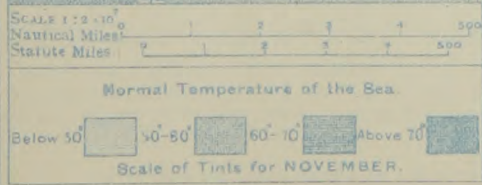
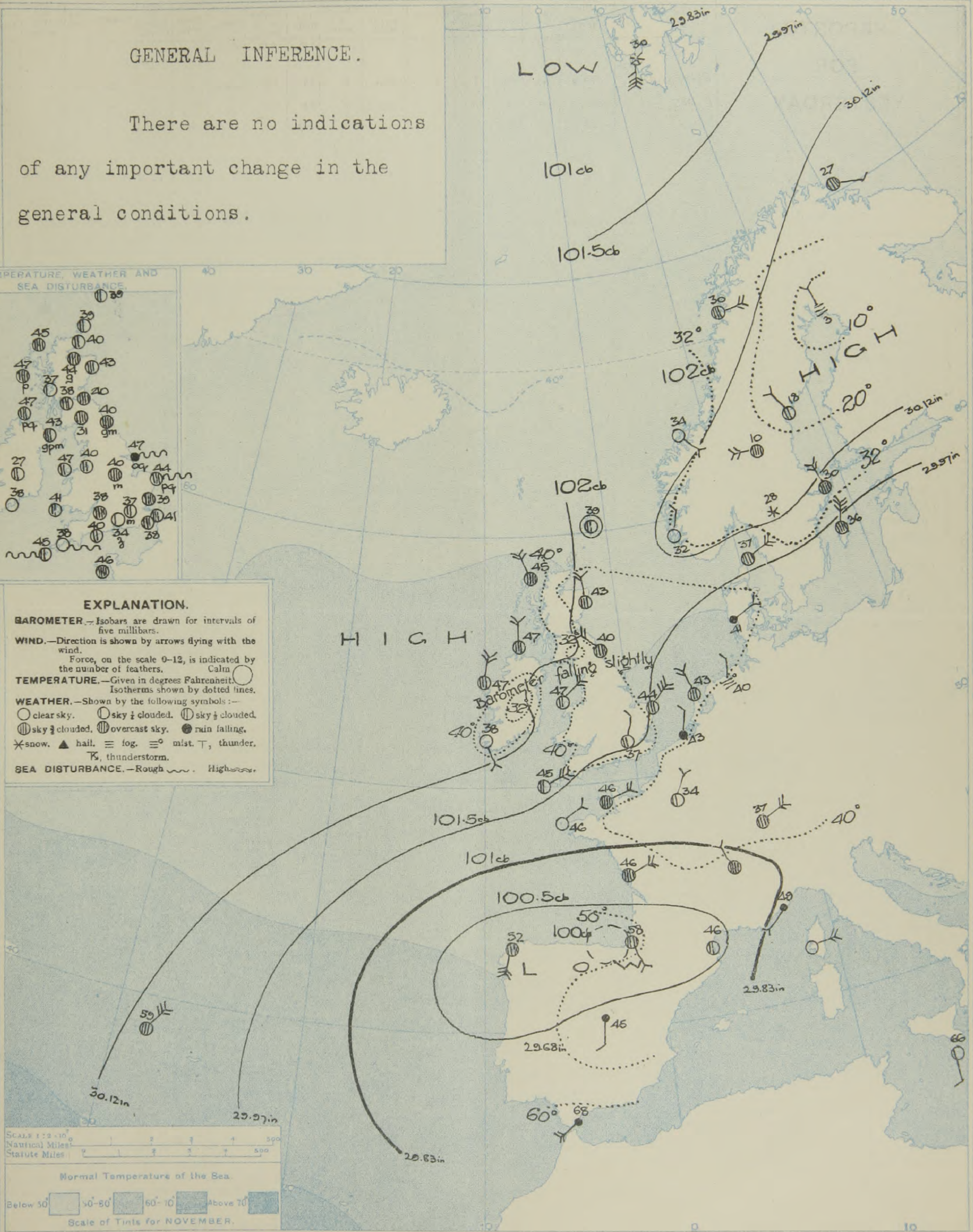
There are no indications of any important change in the general conditions.

## TEMPERATURE, WEATHER AND SEA DISTURBANCE.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm   
**TEMPERATURE.**—Given in degrees Fahrenheit.   
 Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.  
 ○ sky 3/4 clouded. ○ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 K, thunderstorm.  
**SEA DISTURBANCE.**—Rough High





## DAILY WEATHER REPORT.

Friday, 5<sup>th</sup> November 1915.

REPORTS  FOR  YESTERDAY.   4 <sup>th</sup> November	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain-fall. Milli- metres.		TEMP. Max. Min.	
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.					
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours. ° F.	Direc.	Force 0-12.								
Petrograd .....	1014.4	34	SW	2	0	1014.3	0	34	+2	WSW	2	-	S	*	-	34	30			
Lyons .....	1006.9	44	N	2	0	1009.5	*	40	+3	-	0	*	0	*	-	51	38			
Lisbon .....	1002.9	57	SSW	5	0	997.6	-1	59	+5	SSW	4	-	0	*	25	61	57			

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		°F.	°F.						°F.	°F.			
Scotland.	Oban ...	47	28	b. bc	0	3.0	Tunbridge Wells ...	-	49	35	c	bc. o. bc	0.0
	Banff ...						Margate ...	0.1	52	43	b	cp	3.1
	Carnoustie ...						Ramsgate ...	0.2	51	43	bc	or. c	3.6
	St. Andrews ...			*	*		Hastings ...	2.	51	?	bc. b	b. bc. or	5.6
Eng. N.E.	Harrogate ...	43	34	b. bc	bc	5.2	Bexhill-on-Sea ...	-	51	39	b	bc	6.2
	Skegness ...	48	40	b. o	c. bc. b	0.9	Eastbourne ...	-	51	37	b	bc	7.6
Eng. N.W.	Morecambe ...	41	33	b	b. bc	6.3	Seaford ...	-	51	37	b. bc	bc. c. bc	6.3
	Blackpool ...	46	30	b	b	7.4	Brighton ...	-	50	37	bc	bc	5.0
	Southport ...	47	31	bx. b. bc	b. bc	7.7	Worthing ...	-	50	37	bc	bc	5.0
Midlands.	Buxton ...	48	31	b	bc	5.6	Littlehampton ...	-	49	?	bc	bc	3.4
	Leamington Spa ...	45	35	bc	c. bc. b	6.2	Bognor ...	-	50	38	b	bc	4.4
	Malvern ...	46	33	b. bc	bc. b	6.7	Southsea ...	-	50	39	b	bc	4.7
	Ross-on-Wye ...						Bournemouth ...	-	49	35	o c	bc	3.5
Wales.	Rhyl ...	46	27	b	bc. c	7.9	Weymouth ...	-	50	38	bc. b	b. bc	7.6
	Colwyn Bay ...	45	35	bc	bc	7.0	Torquay ...	-	51	38	o. c. bc	c. o	4.5
	Llandudno ...						Paignton ...	-	49	39	o. bc	o	3.1
	Aberystwyth ...	47	38	o c t	bc. c	7.0	Falmouth ...	-	50	38	c. bc. b	b. bc	4.9
	Tenby ...	49	37	bc	b	7.9	Penzance ...	-	50	39	b	bc	6.3
England, E.	Cromer ...	48	45	o p	o	0.0	Newquay ...	-	51	39	c. bc	b. bc	4.5
	Lowestoft ...	51	46	o p. c	c. o p. c q	1.6	Ilfracombe ...	-	49	31	b	b	7.0
	Felixstowe ...	52	38	bc mp	bc p	5.8	Weston-super-Mare ...	-					
	Walton-on-Naze ...	51	39	bc	bc. c u	6.1							
	Southend-on-Sea ...	51	38	b. bc. c	c. b z	4.5							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
	%	%	Hr.	* F.	* F.	* F.	mm. §			
Greenwich (Royal Obsy.) ...	81	92	0.5	49	36	31		c. o	o. c	o. z
City (Bunhill Row) ...	x	x	1.5	x	x	x	x	x	x	x
Westminster (St. James's Pk.)	80	87	2.9	50	38	33	-	bc m	bc m	bc m
Camden Sq. (Brit. Rainfall)	82	89	2.6	50	36	32	-	bc	bc. o	*
Hampstead (Reservoir) ...	x	92	4.3	47	34	23	-	bc	c. o. c	c
Richmond Park	x	x								
Kew. (See front page.)										
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
(Greenwich and Camden Square air temperatures 21c in Glaisher screens.)				Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)				78 85 3.2		402 Joules 11.8 Milliwatts.		28 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
	mm. §	° F.	° F.	° F.				Hr.
Dublin to 4 p.m.								
Darwen to 9 p.m.	-	43	32	29	bc. f	bc	bc	* 4.8
Manchester "				*				
Birmingham "	-	43	34	27	b	bc	c	4.1
Oxford to 8 p.m.	*	49	35	26	b. op. bc	bc	bc. o	*
Teignmouth to 9,,	-	50	40	36	bc	bc	bc. c	5.7
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	-	49	38	28	o. bc	bc. bc	c. op. o	*

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 50° generally; a frost occurred at night in some Irish and Scottish localities. Several hours of bright sunshine were recorded except in Scotland and the south-east and east of England. Slight rain was experienced in many parts of the Kingdom.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 310. { Saturday 6<sup>th</sup> November 1915.

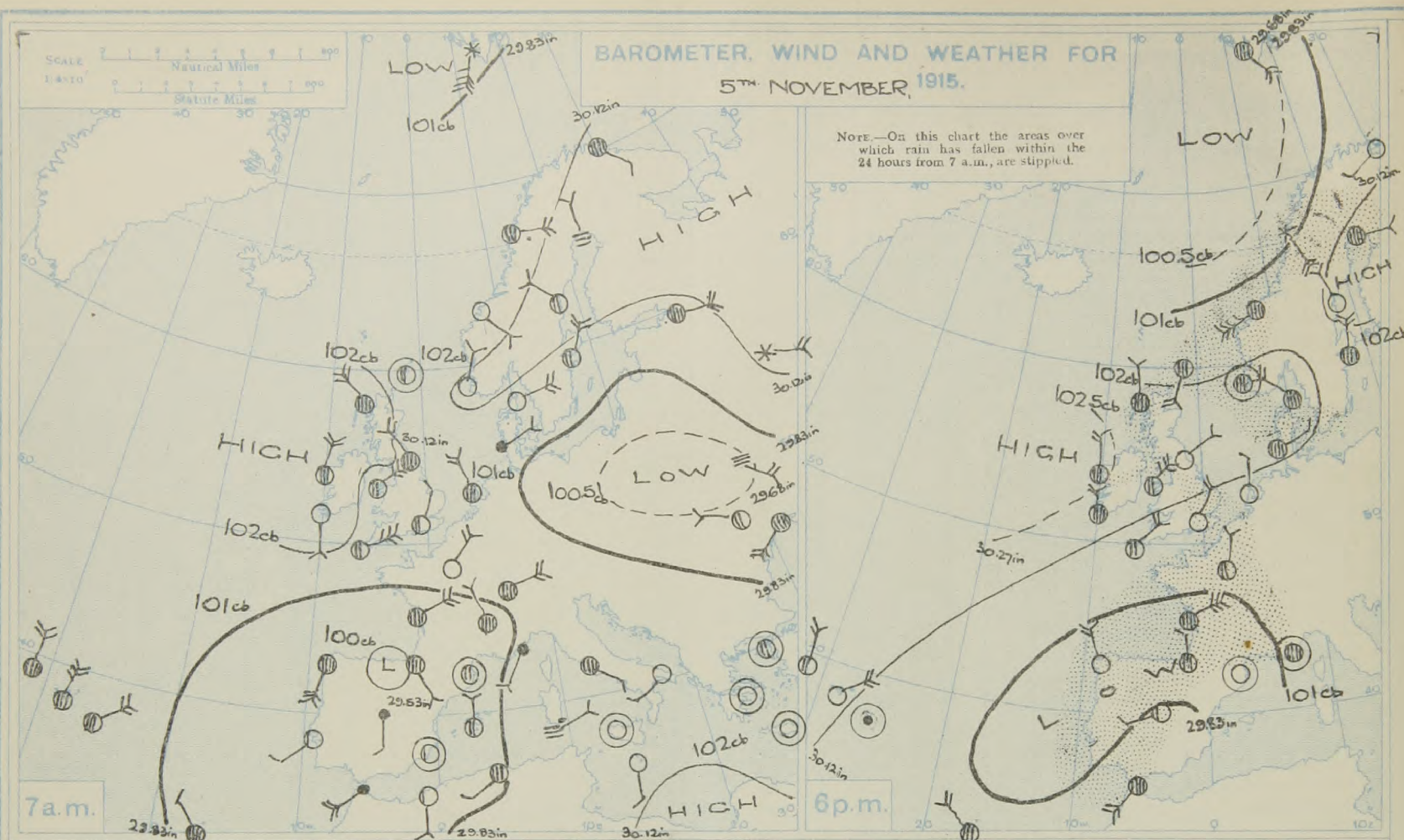
	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
				Dir.	Force 0-12.						Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick	1016.3	45	SSW	3	cm	1014.0	-1	48	+9	W	3	-	om	2	2	48	38	bc	cmd	om	Hours.
	Deerness	1021.0	44	SW	2	oe	1017.3	-1	48	+9	WNW	4	-	o	2	1	49	39	bc.o	oe	o	2.5
	Stornoway	1023.7	47	N	2	o	1021.4	-1	45	0	W	2	-	o	2	1	49	44	o	o	odp	0.0
	Castlebay (Barra Isd.)	1024.7	49	-	0	o	1023.1	-1	50	+3	W	2	W	o	2	0.2	51	45	of.o	o	c	0.0
	Glasgow	1024.0	43	ESE	1	og	1028.9	-2	42	+4	SSW	1	NW	of	*	Trace	50	37	cf.bc	bc.c.o	of.cf	4.7
	Eskdalemuir	1024.1	37	N	2	c	1025.1	0	33	+2	-	0	-	o	*	0.3	46	28	o.c.og	o.c.og	c.bc.o	3.0
	Malin Head	1024.3	49	NNE	4	cg	1025.0	0	50	+3	NW	4	-	om	4	-	51	46	cg	cg	om	0.8
	Blacksod Point	1025.9	47	N	3	cp	1025.2	0	48	+1	N	3	N	cg	3	2	51	36	cg	cg	cpog	*
	Valencia	1023.7	30	N	4	o	1027.6	+1	46	+8	NE	2	-	c	2	-	52	37	bcv	c.og	o.c.bc.o	4.9
	Roche's Point	1022.8	48	N	3	c	1027.0	*	41	+3	NNE	1	NE	c	2	0.1	51	38	bc.c	bc.c	bc.cm	*
	Birr Castle	1023.8	46	NW	1	c	1027.1	*	35	+8	NW	1	-	o	*	-	50	25	c	c	o	2.6
	Donaghadee	1022.9	49	ENE	3	bc.m	1024.8	0	45	+2	WNW	3	-	ogm	2	1	50	42	bcp	bc.m	ogm	*
	Liverpool (Bidston)	1021.9	42	NNE	2	m	1024.0	0	36	+4	N	1	-	o	2	-	48	35	cm	bc	bc	3.0
	Holyhead	1021.6	48	NE	5	bc	1025.2	+1	49	+2	SSE	2	-	cu	1	-	53	39	bc	bc.o.c	bc.v	6.7
	Pembroke (St. Ann's)	1020.1	44	N	2	b	1024.6	+1	38	-3	NNE	3	-	b	1	-	51	36	bc.b	bc.c	bc	7.0
	Scilly (St. Mary's)	1016.8	48	NE	3	bc	1021.4	+1	45	0	ENE	4	E	bc	5	0.2	50	42	bc	bc	c.bc	8.2
	Falmouth	1019.1	40	NNE	1	b	1022.8	+2	37	-1	N	3	-	bc	4	-	51	36	bc	bc	bc	8.6
	Jersey (St. Aubin)	1014.4	49	NE	4	b	1017.8	*	46	0	NE	4	NE	bcp	3	2	53	44	o.c.b	bc	bc.bcp	5.6
	Portland Bill	1016.8	45	NE	4	b	1020.2	+2	39	-1	NNE	5	NE	cg	4	-	44	37	bc	bc	bc.ccg	*
	Dungeness	1015.0	43	NE	3	bcp	1019.6	+2	39	+1	N	2	NE	bc	2	1	45	37	bc	bcp	bc.bc	*
	Dover	1016.1	41	?	3	bc	1020.1	+1	44	+3	NE	2	NE	c	4	5	47	38	c	c.bcr	o.c.bc	2.0
NORTHERN EUROPE.	Wick	1021.8	44	W	1	c	1019.3	0	46	+6	-	0	-	o	1	1	48	34	bc	c	o	*
	Nairn	1022.8	44	-	0	bc	1020.6	*	48	+4	NW	2	-	og	2	0.3	48	43	c.bc.c	ed.u	og	0.3
	Aberdeen	1023.6	39	W	1	b	1020.8	-1	47	+4	W	2	-	o	2	-	49	38	c.bc	bc.b	bc.o	3.1
	Leith	1023.9	44	W	1	o	1022.9	+1	44	+4	WSW	1	-	o	*	-	48	40	o.c	bc.op	o.c	*
	Tynemouth	1022.1	44	NE	2	b	1022.2	-1	34	-6	WNW	2	-	bm	3	-	48	34	bcp	bc	bc.m	*
	Spurn Head	1020.1	45	NNE	4	bc	1023.3	+1	47	0	NNE	4	-	ogp	5	7	47	40	ogp	bcg	bcg.p	3.5
	Yarmouth	1017.2	45	NE	5	bc	1021.0	+2	47	+3	E	2	E	bc	3	Trace	50	44	bcg.p	bc	bcp	5.5
	Clacton-on-Sea	1017.2	43	N	2	c	1021.1	+1	39	0	NNW	3	NE	bc	2	1	48	37	cp.bc	cp.bc	c.bc	9.5
	Nottingham	1020.7	40	N	2	b	1023.3	*	40	0	N	3	NE	c	*	1	43	38	om	dm.c	bc	0.0
	Bath	1018.4	43	-	0	o	1022.6	*	39	+1	NE	2	E	o	*	-	50	30	o.c.bc.b	bc.c.o	c.bc.o	5.6
	St. Farnborough	1017.4	39	N	1	b	1021.4	+3	37	+3	N	1	-	og	*	-	47	32	bc	c.b	bc.o	2.6
	London (Kew Obsy.)	1018.3	42	NNE	3	bc	1022.0	+1	39	+2	NNE	2	-	om	*	Trace	46	37	bc.m	bc.p	bc.m	2.1
	Spitsbergen	1002.1	28	SE	4	o	1002.4	+2	28	-2	-	0	*	o	*	*	30	25	*	*	*	*
	Vardö	1018.6	25	SW	1	b	1017.0	0	25	-2	SSW	5	-	c	3	*	27	21	*	*	*	*
	Bodö	1007.1	34	SE	4	3	998.3	-1	30	0	ESE	6	-	o	2	?	34	16	*	*	*	*
Christiansund	1012.2	43	SW	7	o	1000.4	+1	45	+11	W	3	-	bc	3	8	45	30	*	*	*	*	
Skudesnaes	1021.5	39	-	0	c	1011.5	-5	46	+14	W	4	-	bc	4	1	46	32	*	*	*	*	
Færder (X'aniafjord)	1021.5	30	SE	1	c	1010.6	-6	37	-	WSW	4	-	o	2	-	37	28	*	*	*	*	
The Scaw (Skagen)	1021.1	34	NE	2	o	1013.9	-3	43	+6	WNW	3	-	o	3	Trace	43	32	*	*	*	*	
Blaavands Huk	1020.4	37	ENE	1	o	1019.5	-3	41	0	NNW	1	-	o	2	Trace	43	34	*	*	*	*	
FRANCE, &c.	Haparanda	1022.4	12	E	2	o	1015.9	0	16	+13	ESE	2	-	o	*	Trace	19	5	*	*	*	*
	Hernösand	1021.2	14	NNW	2	b	1011.0	-3	19	+1	-	0	-	c	*	-	25	7	*	*	*	*
	Stockholm	1017.1	28	N	4	o	1012.6	+3	27	-3	WNW	2	-	o	*	-	30	27	*	*	*	*
	Wisby	1014.4	36	N	6	o	1012.4	-2	34	-2	NNW	6	-	o	*	1	37	32	*	*	*	*
	Karlstad	1021.5	30	-	0	o	1011.4	-11	32	+4	WSW	4	-	o	*	-	36	19	*	*	*	*
	Petrograd (5 a.m. G.M.T.)																					
	The Helder	1016.6	43	NNE	1	b	1021.3	0	36	-7	ESE	1	-	bc	1	?	48	36	*	*	*	*
	C. Gris Nez	1015.4	42	ENE	4	b	1019.0	+1	39	-7	E	4	-	bc	3	7	48	37	*	*	*	*
	La Hève	1013.9	43	NE	3	bc	1017.9	*	39	0	NE	3	-	bc	2	1	50	37	*	*	*	*
	Ushant																					
	Brest (St. Mathieu)	?	45	NE	3	b	1019.3	+1	43	-3	NNE	4	-	bc	0	2	54	41	*	*	*	*
	Rochefort (Ile d'Aix)	1009.0	45	ENE	6	o	1013.0	+2	43	-3	NNE	4	-	o	*	6	48	41	*	*	*	*
	Biarritz	1007.9	59	N	1	c	1010.9	+2	46	-12	NE	3	-	bc	2	9	64	46	*	*	*	*
	Paris	1012.3	41	NNE	3	bc	1016.7	+4	37	+3	NNE	2	-	bc	*	1	50	34	*	*	*	*
	Belfort																					
Lyons																						
Nice	1011.0	54	-	0	o	1014.0	+4	53	+4	-	0	-	bc	4	1	59	48	*	*	*	*	
Perpignan	1006.3	61	-	0	b	1013.2	+3	45	-1	SW	1	-	bc	*	-	66	43	*	*	*	*	
Sanguinaire																						
SOUTHERN EUROPE.	Corunna (7 a.m.)	1007.7	59	NNE	3	b	1020.0	0	46	-6	ENE	2	-	bc	3	?	61	45	*	*	*	*
	Madrid (8 a.m.)	1010.4	52	WSW	2	b	1013.6	+1	46	+1	-	0	-	bc	*	2	55	45	*	*	*	*
	Lisbon (9 a.m.)																					
	Gibraltar	1012.8	61	SW	4	o	1010.5	*	60	-1	E	4	-	bc	4	6	68	58	*	*	*	*
	Rome																					
	Malta (8 a.m.)					*	1013.3	+1	66	0	SSE	1	-	m	0	-	72	62	*	*	*	*
	Azores (Horta, 8 a.m.)	1021.5	*	NE	4	b																
	Madeira (Funchal)	1010.4	64	WNW	3	a	1010.7	0	57	-6	?	?	-	bc	?	-	68	55	*	*	*	*

RAINFALL.			
Equivalents of Millimetres. in Inches.			
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
19	0.75	44	1.73
20	0.79	45	1.77
21	0.83	46	1.81
22	0.87	47	1.85
23	0.91	48	1.89
24	0.95	49	1.93
25	0.98	50	1.97

RAINFALL.			
Equivalents of Millimetres. in Inches.			
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
19	0.75	44	1.73
20	0.79	45	1.77
21	0.83	46	1.81
22	0.87	47	1.85
23	0.91	48	1.89
24	0.95	49	1.93
25	0.98	50	1.97

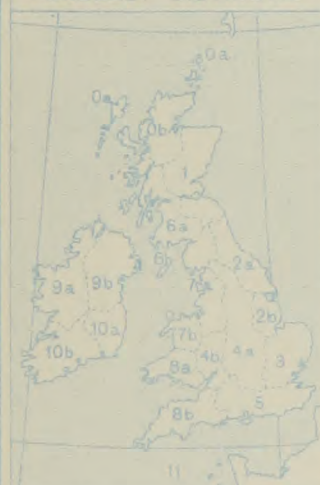
\* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday,	Signals hoisted this morning.
South Coast.	South Coast.
North Coast.	North Coast.

No Warnings Issued.

Western Channel and Bay 11

North-Westerly and Westerly winds, light or moderate; cloudy or dull, showers and mist; colder.

Northerly and North-Easterly winds, light; mostly fair, dull intervals, some mist or fog locally; moderately cold.

Same as Nos. 0 and 1.

Northerly and North-Easterly winds, light; fair generally, some local mist; rather cold.

Wind Northerly, light; mostly fair, some mist; colder.

North-Easterly winds, light or moderate; sea moderate; fair generally.

FURTHER OUTLOOK.

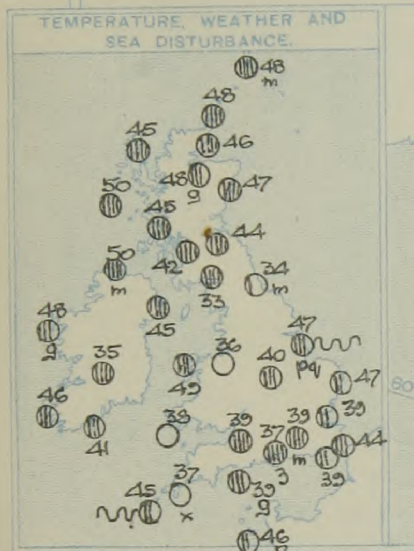
Millib. inches  
1050—31  
1040—  
1030—  
1020—  
1010—  
1000—  
990—  
980—  
970—



# SYNOPTIC CHART FOR 7 a.m., SATURDAY, 6<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

The anticyclone will maintain its influence over the greater part of the United Kingdom.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm.

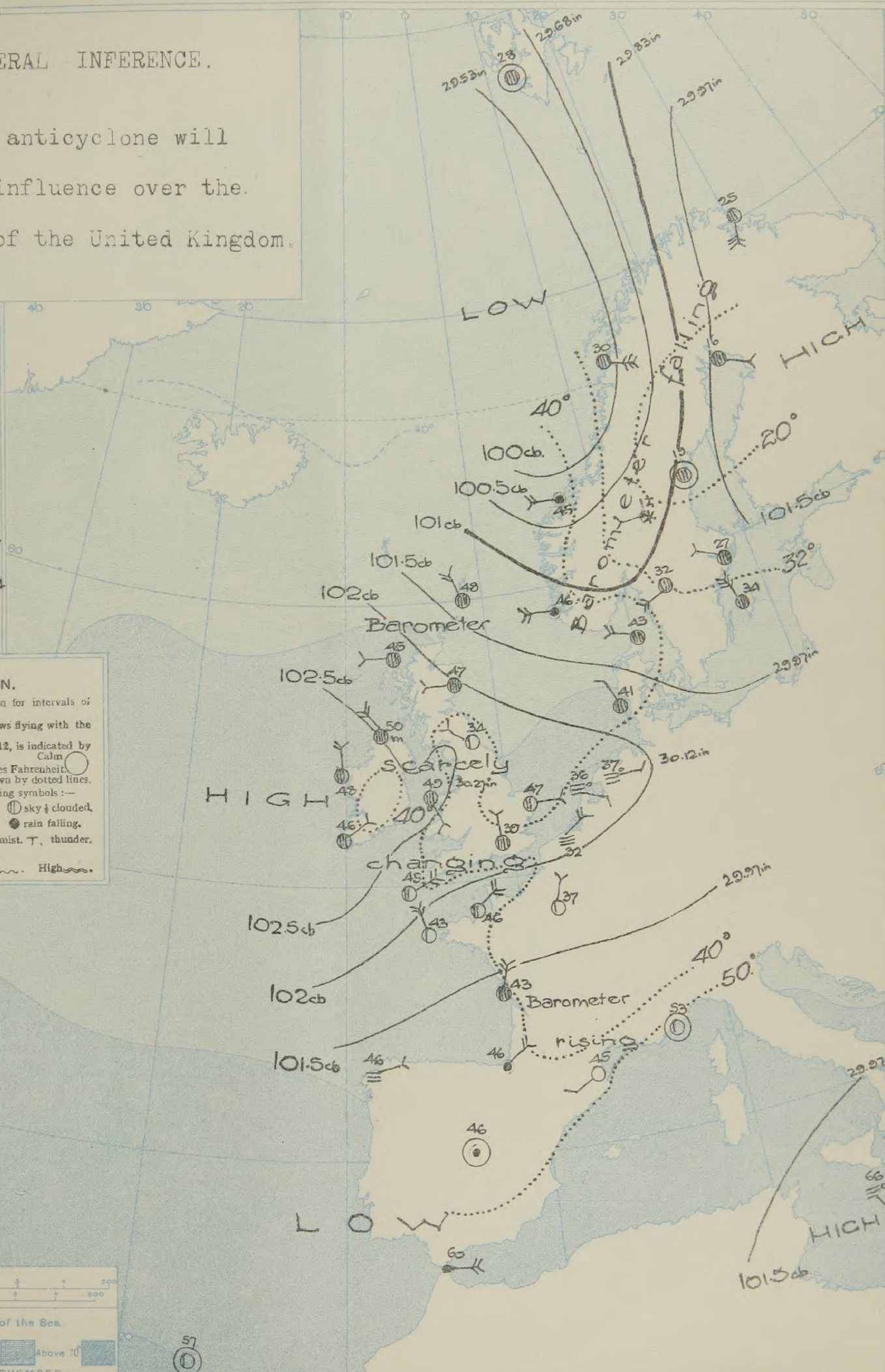
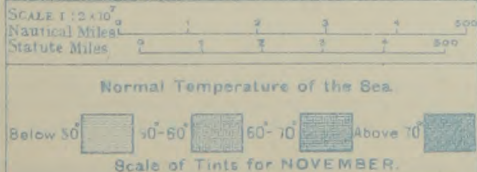
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.  
 ○ sky 3/4 clouded. ○ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T. thunder.  
 T. thunderstorm.

**SEA DISTURBANCE.**—Rough wavy. High wavy.

scarcely  
changing

rising





Saturday 6<sup>th</sup> November 1915.

5<sup>th</sup> November

STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.											
	BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.
		* F.						* F.	* F.								
Petrograd...	1017.9	34	WSW	1	r	1017.3	0	34	0	E	4	-	0	*	1	36	34
Lisbon...	996.7	55	SW	3	0	1003.5	+4	54	-5	SW	1	-	7	6	6	63	54
Rome...	1016.0	55	SE	1	8	1016.3	0	55	-	SE	1	-	0	*	1	63	55

## STATIONS.

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.	mm. §	° F.	° F.			Hr.		mm. §	° F.	° F.			Hr.
{ Oban ... ..	-	53	36	bc	bc. o	3.7	{ Tunbridge Wells ... ..	1	49	35	bc	cp. cr. b	36
{ Banff ... ..	0.3	49	39	bc	bc. c	3.9	{ Margate ... ..	1	48	43			1.8
{ Carnoustie ... ..							{ Ramsgate ... ..	3	48	41	bc. p. h	bc. p. h	1.5
{ St. Andrews ... ..	-	48	38			3.5	{ Hastings ... ..	1	47	37	cr. bc. b	bc. b	3.5
							{ Bexhill-on-Sea ... ..						
Eng. N.E.							{ Eastbourne ... ..	1	49	37	bc. a. bc	bc. c	4.7
{ Harrogate ... ..	1	45	37	o. c	op. bc. b	2.5	{ Seaford ... ..	Trace	49	37	b	bc. c	5.2
{ Skegness ... ..	3	47	38	op	ch. bc. b	2.8	{ Brighton ... ..	0.3	49	39	bc. c	bc. cr. o	7.1
							{ Worthing ... ..	-	48	37	b	b	7.2
Eng. N.W.							{ Littlehampton ... ..	-	48	39			6.8
{ Morecambe ... ..	-	47	35	bc	b. o	5.1	{ Bognor ... ..	-	48	37	b	b	6.2
{ Blackpool ... ..	-	48	34	bc. c. b	b. bc. b	5.8	{ Southsea ... ..	-	48	38	b	bc	4.7
{ Southport ... ..	-	49	35	o. a. bc. b	bc. bc. c. b	4.5	{ Bournemouth ... ..	-	49	34	b	b	7.0
Midlands.													
{ Buxton ... ..													
{ Leamington Spa ... ..	1	45	31	c. op	p. c. b	0.4							
{ Malvern ... ..	-	45	35	b	bc. c. bc	5.4							
{ Ross-on-Wye ... ..	-	50	31	bc. cr.	bc. o	5.2							
Wales.													
{ Rhyll ... ..	-	49	32	b	bc. c. bc	4.4	{ Weymouth ... ..	-	49	36	bc	bc. g	6.4
{ Colwyn Bay ... ..	-	50	38	b	bc	5.3	{ Torquay ... ..	-	52	37	b	b	6.8
{ Llandudno ... ..							{ Paignton ... ..	-	49	37	b	bc	6.9
{ Aberystwyth ... ..	-	50	35	o. c. b	bc. c	6.7	{ Falmouth ... ..	-	51	38	b	b	8.6
{ Tenby ... ..	-	50	39	b	bc	7.9	{ Penzance ... ..	-	50	39	b	b	8.6
							{ Newquay ... ..						
England. E.							{ Ilfracombe ... ..	-	55	42	b	bc. c	7.5
{ Cromer ... ..							{ Weston-super-Mare ... ..	-	49	33	b	bm	6.0
{ Lowestoft ... ..	2	48	40	c. op. c	c. op. c	4.5							
{ Felixstowe ... ..	1	47	36	bc. p	bc. p	4.1							
{ Walton-on-Naze ... ..	2	48	36	cr. bc	bc. p. h	3.4							
{ Southend-on-Sea ... ..	1	48	36	o. c. bc. b	bc. p. g	4.2							

### Additional Observations for Yesterday.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Sun- shine for Yester- day.	
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.		
				Max.	Min.							
				24 HOURS ENDED 9 A.M. TO-DAY.								
	%	%	Hr.	° F.	° F.	° F.	mm. §					
Greenwich (Royal Obs.) ...	75	98	2.5	49	36	30	-	c.0	0.c	bc.0om		
City (Bunhill Row) ...	*	*	1.7	*	*	*	*	*	*	*	*	
Westminster (St. James's Pl.)	76	98	1.0	48	39	34	1	m.0c	bc.	bc.xm		
Camden Sq. (Brit. Rainfall)	75	97	2.8	48	37	33	0.3	0.c	bc.ep	*		
Hampstead (Reservoir) ...	*	98	3.0	45	34	23	0.3	bc.c.	0.c.	bc.x.		
Richmond Park ...	*	*	1.2	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.								
Kew. (See front page.)				Total.		Average Rate.		Max. Rate.				
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				45.7 Joules		136 Milli-watts.		29 Milli-watts.				
S. Kensington (Roof of M.O.)	71	94	2.2	45.7								

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
		24 HOURS ENDED 9 A.M. TO-DAY.						
	mm. §	° F.	° F.	° F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								*
Manchester				*				*
Birmingham "				*				*
Oxford to 8 p.m.	*	45	34	29	c.0m	bm.00	co.0c	*
Teignmouth to 9 "	-	49	33	34	6	8	8	6.1
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	0.2	?	?	20	0.c	c.0c	bc.p.m	

Temperature remained below 50° at nearly all stations. Most places experienced a considerable amount of sunshine, but showers fell in various localities. Aurora was observed at Aberdeen and Roche's Point.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at M.O. and at the bookstalls at certain Railway Terminals in London.



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 311. Sunday, 7<sup>th</sup> November, 1915.

STATIONS.	YESTERDAY EVENING.						THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.						Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 5 hours.	TEMP. °F.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
			Direc.	Force 0-12.						Direc.	Force 0-12.					Max.	Min.	Morning	Afternoon	Night.			
BRITISH ISLANDS.																							
Lerwick	1008.5	49	SW	4	omr	1008.6	-2	45	-3	NW	6	-	oq	5	3	50	43	om	om	cq/p	Hours.		
Deerness	?	49	W	5	oud	1004.4	*	45	-3	W	6	W	bep	4	3	50	44	o	ou	op.cbc	0.3		
Stornoway	1015.7	50	SW	6	opq	1009.8	-3	45	0	W	6	-	bcq	5	3	52	45	op.cq	c. opq	c. bcq	2.2		
Castlebay (Barraisd.)	1018.8	52	WSW	4	o	1014.4	-1	50	0	W	4	-	o	4	1	53	48	o. bc. o	o	bc. o. p.	1.2		
Glasgow	1019.9	47	W	2	bz	1014.2	-1	47	+5	W	4	NW	c	*	-	51	42	of. cg	cg. bez	o. cg. c	0.9		
Esksdalemuir	1020.5	44	S	3	o	1015.1	-1	47	+14	W	4	N	oq	*	-	49	33	o. c	o	o. oq	0.1		
Malin Head	1022.0	50	NW	5	cq/p	1017.4	-1	49	-1	NW	6	-	oq	6	Trace	53	48	c	cg	o. oq	0.0		
Blacksod Point	1025.2	50	NW	3	om	1021.3	-2	48	0	NW	4	NW	cb	3	1	51	48	om	om	om. cb	0.0		
Valencia	1027.0	47	N	2	o	1024.1	-1	46	0	NE	2	-	o	3	0.2	52	44	c	od. o	o. bc. o	2.0		
NORTHERN EUROPE.																							
Roche's Point	1026.7	48	E	2	o	1024.6	*	47	+6	W	1	-	o	2	-	50	41	c	o	o	0.0		
Birr Castle	1026.7	46	-	0	o	1021.8	*	47	+12	SW	1	-	o	*	-	48	35	o	o	o	0.0		
Donaghadee	1022.2	48	W	3	ogm	1017.8	+1	49	+3	W	3	W	om	3	-	49	45	ogm	ogm	ogm. om	5.6		
Liverpool (Bidston)	1023.5	42	W	2	o	1018.4	-1	47	+11	W	4	W	og	3	-	49	36	b	o	oe	0.2		
Holyhead	1023.5	51	NW	4	omg	1019.5	-2	51	+2	WNW	4	-	o	3	1	51	40	c. ov	o. opdm	oe. om	0.2		
Pembroke (St. Ann's)	1025.0	40	N	2	b	1021.8	-1	50	+12	NW	1	NW	CV	1	-	51	37	b	o	o	3.5		
Scilly (St. Mary's)	1022.8	47	ENE	3	bc	1022.8	0	44	-1	NE	1	-	b	3	-	52	40	bc	bc	bc. b	6.3		
Falmouth	1023.7	43	NNE	2	bz	1023.2	-1	37	0	N	1	-	b	4	-	50	34	bcz	bz	b	7.5		
Jersey (St. Aubin)	1019.7	50	ENE	5	b	1021.3	*	40	-6	NE	2	N	cm	1	Trace	53	37	b	b	b. b. w. c	8.3		
Portland Bill	1021.9	44	NE	3	b	1021.8	-1	42	+3	N	1	-	bc	2	-	48	39	bc. b	b	b. bc	*		
Dungeness	1022.4	42	NE	2	b	1021.1	-1	30	-9	NW	2	-	fx	2	-	51	28	bc	bc. b	b. fx	*		
Dover	1023.0	39	-	0	b	1021.3	-1	35	-9	W	1	-	bxz	2	0.1	50	31	c. bc. b	b	bz. x	8.4		
Wick	1013.7	48	W	3	o	1007.2	-2	44	-2	W	3	-	r	2	1	53	42	o	o	opd	*		
Nairn	1015.6	49	W	4	bcq	1010.1	*	48	0	W	4	-	cq	2	1	52	44	c. bc	bcq	q. cp	2.3		
Aberdeen	1015.6	48	SSW	2	bcz	1010.3	-2	48	+1	WSW	3	-	o	2	-	54	46	o. bc	b. bcz	bcz. o	2.4		
Leith	1018.8	43	WSW	2	bc	1013.1	-1	49	+5	W	2	W	c	*	-	52	43	b	c. bc	o. bc	*		
Tynemouth	1020.1	46	W	2	bcm	1013.3	-1	49	+15	W	2	-	bm	2	-	49	35	bcm	cm	bm	*		
Spurn Head	1022.4	44	WNW	2	bcm	1016.9	-2	45	-2	W	4	-	bcm	4	0.4	49	42	bc	bcm	ogm	4.5		
Yarmouth	1021.8	47	ESE	1	bc	1018.2	-2	39	-8	W	2	NW	bcm	2	-	55	39	bc	bc	bm	6.7		
Clacton-on-Sea	1022.6	42	NW	2	bc	1020.2	-2	34	-5	W	2	-	bc	2	-	50	30	bc. cm	o. bc. cm	bm. fm. x	1.8		
Nottingham	1023.5	40	W	1	b	1018.7	*	42	+1	W	1	-	o	*	-	49	36	cm	cm. b	bc. o	0.2		
Bath	1023.6	40	E	1	o	1021.7	*	34	-5	W	1	N	o	*	-	47	29	m. o. c	om	o. c. bc. m	0.4		
St. Farnborough	1023.2	38	-	0	m	1021.1	-2	30	-7	-	0	N	m	*	Trace	48	30	o. c	o. bc	b. o. cm	1.2		
London (Kew Obs.)	1023.4	45	N	1	o	1021.4	-3	33	-6	SW	1	-	fw	*	Trace	48	32	om. cm. bc. m	cm. om	o. cm. fw	0.9		
FRANCE, &c.																							
Spitsbergen	1004.2	23	-	0	o	1007.5	+3	19	-9	SE	2	*	b	*	*	28	19						
Vardö	1017.5	23	SSW	5	c	1016.2	0	19	+6	SW	2	-	o	2	*	25	18						
Bodö	1000.4	30	E	6	c	992.0	-2	27	-3	ESE	7	-	s	3	*	30	21						
Christiansund	1001.2	46	SW	5	*	992.4	-4	48	-3	SW	4	-	r	4	5	46	43						
Skudenes	1010.6	46	NNW	1	m	1001.6	-3	46	0	NNW	4	-	o	4	6	48	45						
Færder (X'ianiafjord)	1010.1	37	ENE	1	b	999.7	-7	41	+4	SW	6	-	m	3	-	41	36						
The Scaw (Skagen)	1010.4	39	NNE	2	b	1004.6	-4	46	+3	WSW	3	-	m	3	Trace	46	34						
Blaavands Huk	1014.7	46	NW	4	o	1011.8	-3	48	+7	NNW	3	-	o	3	Trace	48	39						
Haparanda	1016.2	18	ESE	4	b	1008.7	?	?	?	SW	?	?	?	*	?	?	?						
Hernösand	1009.6	28	-	0	o	1001.9	-5	32	+13	S	8	-	s	*	1	32	18						
Stockholm	1009.9	30	S	2	o	1006.3	-5	32	+5	S	2	-	o	*	-	32	27						
Wishby	1010.7	34	NNW	4	o	1008.7	-1	34	0	S	2	-	o	2	-	34	30						
Karlstad	1010.6	23	-	0	b	1002.1	-8	36	+4	S	2	-	r	*	1	37	16						
Petrograd (5 a.m. G.M.T.)	1008.4	21	E	4	o	1009.1	+1	18	0	NNW	3	-	s	*	-	27	18						
SOUTHERN EUROPE.																							
The Helder	1021.2	46	WSW	2	bc	1017.3	-2	48	+12	WSW	5	-	c.	3	-	48	46						
C. Gris Nez	1021.5	39	ENE	2	b	1019.8	0	36	-3	S	2	*	f	2	Trace	48	32						
La Hève	1018.3	45	NE	2	b	1022.9	*	41	+2	N	2	*	m	2	-	50	39						
Ushant																							
Brest (St. Mathieu)	1021.1	50	NE	3	bc	1022.1	0	45	+2	ENE	3	*	bc	1	1	54	43						
Rochefort (Ile d'Aix)	1017.2	46	ESE	1	bc	1015.5	0	46	+3	ENE	4	*	o	*	-	50	43						
Biarritz																							
Paris	1020.7	45	ENE	1	o	1021.1	0	36	-1	-	0	-	o	*	-	50	36						
Belfort	1020.6	43	-	0	b	1023.1	*	37	0	E	4	*	f	*	-	48	32						
Lyon	1020.3	45	NNW	2	b	1019.9	*	41	-3	NW	1	*	f	*	-	55	41						
Nice	1017.0	54	-	0	b	1018.3	0	48	-5	E	3	*	c	3	-	64	48						
Perpignan	1014.9	55	-	0	o	1014.9	0	57	+12	NE	1	SE	o	*	-	61	45						
Sanguinaire																							
SOUTHERN EUROPE.																							
Corunna (7 a.m.)	1012.4	50	ENE	5	o	1015.3	+1	50	+4	SSW	1	-	c	2	?	55	46						
Madrid (8 a.m.)	1010.7	50	ESE	1	o	1014.9	+4	48	+2	-	0	-	r	*	16	52	46						
Lisbon (9 a.m.)	1007.7	59	SW	2	b	1008.7	0	54	+4	E	3	-	o	?	5	63	50						
Gibraltar																							
Rome																							
Malta (8 a.m.)						1016.7	0	64	-2	WSW	1	-	bc	1	-	75	63						
Azores (Horta, 8 a.m.)	1023.0	*	NE	4	bc	1023.2	+1	61	+5	NE	4	*	o	3	1	63	56						
Madeira (Funchal)	1007.8	63	W	5	o	1006.1	+2	57	0	NNW	5	*	r	4	23	66	57						
RAINFALL.																							
Equivalents of Millimetres.																							
in Inches.																							
mm. Inches. mm. Inches.																							
1 0.04 26 1.02																							
2 0.08 27 1.06																							
3 0.12 28 1.10																							
4 0.16 29 1.14																							
5 0.20 30 1.18																							
6 0.24 31 1.22																							
7 0																							

## RAINFALL.

Equivalents of Millimetres.  
in Inches.

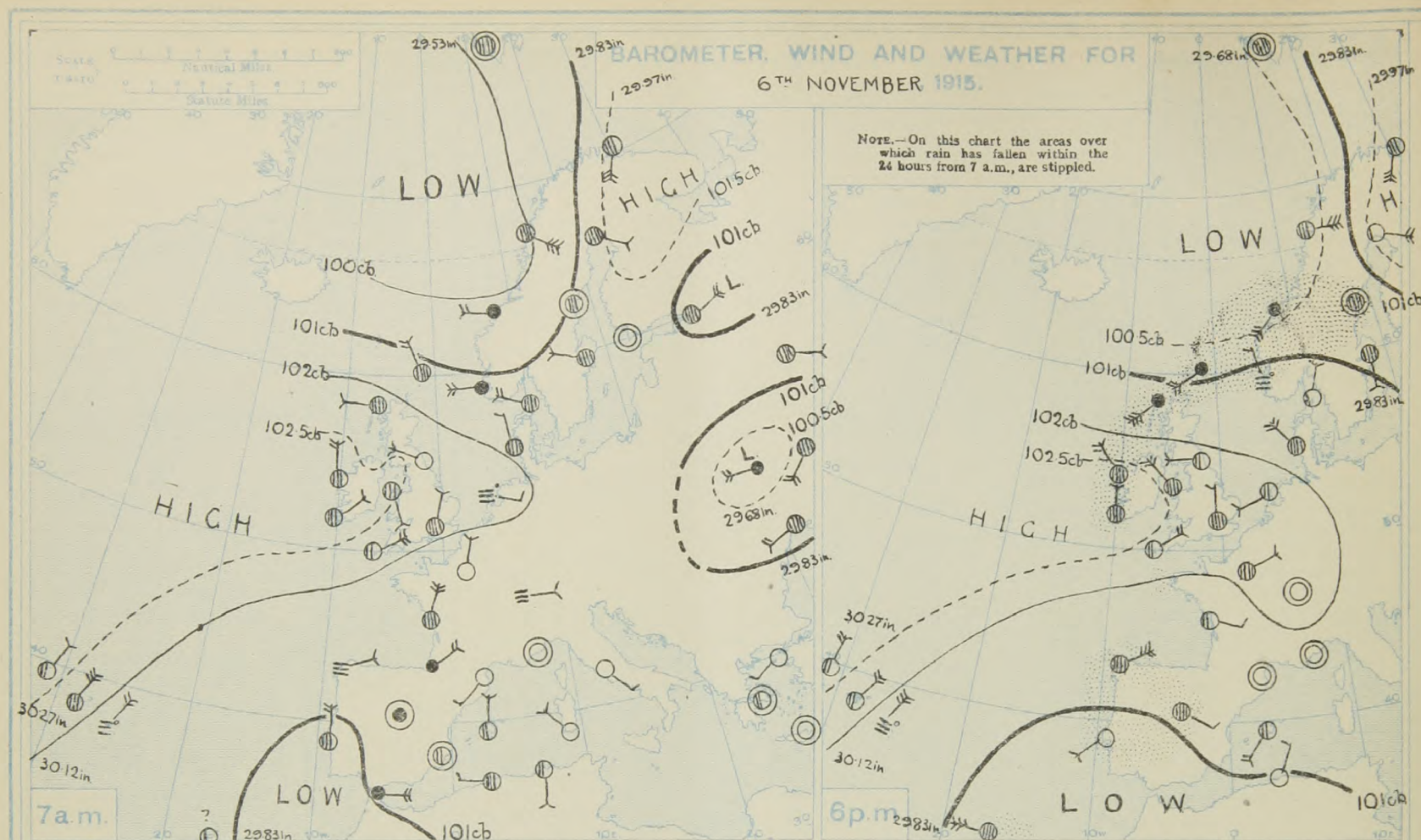
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
19	0.75	44	1.73
20	0.79	45	1.77
21	0.83	46	1.81
22	0.87	47	1.85
23	0.91	48	1.89
24	0.95	49	1.93
25	0.98	50	1.97

\* Information for these columns not usually received.

† Received too late for insertion in Charts.

‡ The barometric change is expressed in half-millibars.





**FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

Cones hoisted at 6.55 p.m.

Western Channel and Bay

- |    |   |
|----|---|
| 0  | a } Westerly and North-Westerly winds, strong to moderate;<br>b } some rain, moderately mild.                   |
| 1  | } Westerly and North-Westerly winds, light or moderate;<br>} some showers, moderately mild.                     |
| 2  | a }<br>b }  |
| 3  | } Westerly and North-Westerly winds, light or moderate;<br>} fair generally, some mist; moderate temperature.   |
| 4  | a }<br>b }  |
| 5  | } Wind mainly between North-West and West, light; fair<br>} generally, some mist locally; moderate temperature. |
| 6  | a } Same as Nos. 1 and 2a.<br>b }   |
| 7  | a } North-Westerly and Westerly winds, light to fresh;<br>b } changeable, some showers; moderate temperature.   |
| 8  | a } Northerly and North-Westerly winds, light; fair<br>b } generally, some mist or fog.                         |
| 9  | a } North-Westerly and Westerly winds, moderate or fresh<br>b } generally; some showers; rather mild.           |
| 10 | a } Light variable to Westerly winds; mostly fair;<br>b } rather mild.  |
| 11 | } Light variable winds; sea slight; fair generally,<br>} some mist.   |

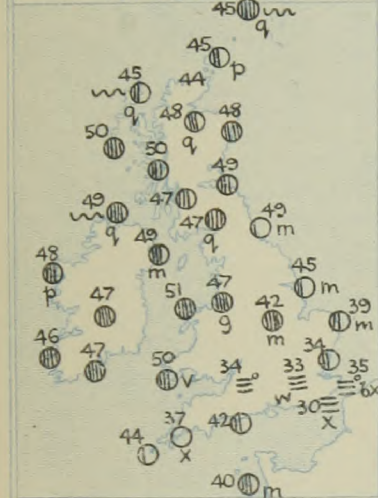
**FURTHER OUTLOOK.**



# GENERAL INFERENCE.

It appears probable that the Westerly and North-Westerly winds will extend further over these Islands during the ensuing 24 hours.

## TEMPERATURE, WEATHER AND SEA DISTURBANCE.



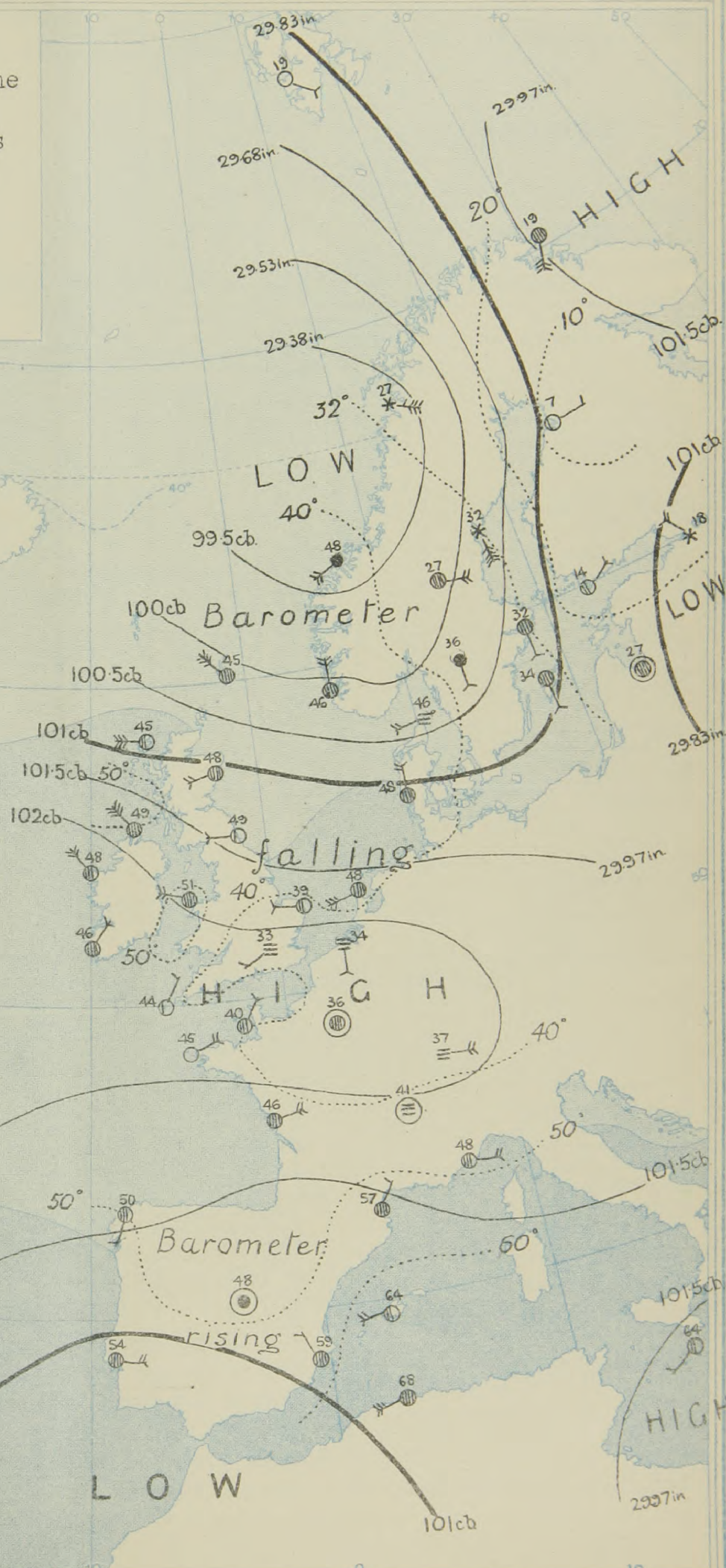
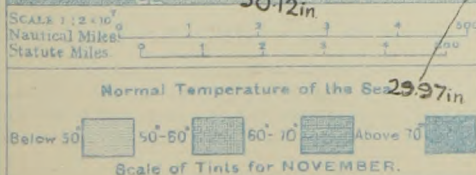
## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm   
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 clear sky. sky 1/2 clouded. sky 3/4 clouded. overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.  
**SEA DISTURBANCE.**—Rough High .

Inches  
31

30

29





## DAILY WEATHER REPORT.

Sunday, 7th November, 1915.

REPORTS  
FOR  
YESTERDAY.

6th November 1915.

## STATIONS.

## EVENING OBSERVATIONS.

## OBSERVATIONS AT 7 A.M., G.M.T.

STATIONS.	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
			Direc.	Force 0-12.				Dry Bulb. °F.	Change in 24 hours. °F.						Max.	Min.
Petrograd	1008.4	21	E	4	o	1009.1	+1	13		NNW	3	-	s	-	27	18
Belfort	1010.9	36	E	4	r	1018.3	*	37	0	E	2	*	f	*	25	14
Lyons	1006.7	48	W	1	r	1015.5	*	44	0	SSE	1	*	f	*	10	60
Lisbon	1006.3	59	SW	3	o	1009.2	0	50	-4	N	3	-	c	6	61	50
Rome	1005.0	50	S	1	b	1015.8	0	63	+8	SE	1	*	b	*	66	?
Herts						1022.7	0	56	-3	NNE	5	*	c	4	63	55

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm.†	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm.†	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.		°F.	°F.				Tunbridge Wells ...		°F.	°F.			
Oban ...	—	53	42	bc.o	o	0.7	Margate ...	2	50	42	bc	bc.o.b	0.8
Banff ...	—	54	40	c.bc	bc.cg	2.4	Ramsgate ...	3	49	40	bc	c.bc.	6.0
Carnoustie ...	—			*	*		Hastings ...	—	50	37	bc	bc.b.	5.3
St. Andrews ...	—						Bexhill-on-Sea ...	—	50	36	bc.b.	bm.	6.2
Eng. N.E.							Eastbourne ...	—	51	36	bc	bc	5.2
Harrogate ...	—	48	32	bc.b.	bc.c	5.2	Seaford ...	—	50	37	c.bc	bc.b.	4.1
Skegness ...	2	49	40	og	og.b	0.0	Brighton ...	—	49	37	bc	b	5.3
Eng. N.W.							Worthing ...	—	49	32	b	b	4.5
Morecambe ...	—	49	29	c.o	o	1.1	Littlehampton ...	—	50	37	bc	bc	5.8
Blackpool ...	—	46	27	bc.bc.o	o	2.7	Bognor ...	—	49	34	bc.b.	b	5.9
Southport ...	—						Bournemouth ...	—	49	34	bc.b.	b	5.9
Midlands.							Weymouth ...	—	49	35	z.bc.b.	bz	7.3
Buxton ...	0.3	46	29	bc	bc	3.9	Torquay ...	—	50	37	b	b.bc	7.1
Leamington Spa ...	—	46	33	c	c	0.1	Paignton ...	—	50	37	bc	bc	7.5
Malvern ...	—	45	31	bm	bc.o	0.0	Falmouth ...	—	50	38	b	b	7.3
Ross-on-Wye ...	—						Penzance ...	—	50	38	b	b	7.3
Wales.							Newquay ...	—					
Rhyl ...	—	50	27	bc	bc.c	4.8	Weymouth ...	—	49	35	z.bc.b.	bz	7.3
Colwyn Bay ...	—						Torquay ...	—	50	37	b	b.bc	7.1
Llandudno ...	—	48	29	c.b	bc.c	8.5	Paignton ...	—	50	37	bc	bc	7.5
Aberystwyth ...	—	51	33	b	bc	8.1	Falmouth ...	—	50	38	b	b	7.3
Tenby ...	—						Penzance ...	—	50	38	b	b	7.3
England, E.							Newquay ...	—					
Cromer ...	—						Weymouth ...	—	49	35	z.bc.b.	bz	7.3
Lowestoft ...	—						Torquay ...	—	50	37	b	b.bc	7.1
Felixstowe ...	1	50	36	bc	bc	2.6	Paignton ...	—	50	37	bc	bc	7.5
Walton-on-Naze ...	1	50	36	cm	c.bc.b.	2.0	Falmouth ...	—	50	38	b	b	7.3
Southend-on-Sea ...	—	48	36	c.o.bc	c.bm.	1.6	Penzance ...	—	50	38	b	b	7.3

## LONDON OBSERVATIONS.

## Additional Observations for Yesterday.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Sun- shine for Yester- day.
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	
				Max.	Min.						
24 HOURS ENDED 9 A.M. TO-DAY.											
Greenwich (Royal Obey.) ...	%	%	Hr.	° F.	° F.	° F.	mm. §				
City (Bank Hill Row) ...	76	99	0.1	49	33	27	—	o	o	abc. bf	
Westminster (St. James's Pk.)	80	99	0.0	49	33	33	—	f. bc	abc. f	om.	
Camden Sq. (Brit. Rainfall)	80	94	0.8	48	33	30	—	cm. c	o. c	*	
Hampstead (Reservoir) ...	%	97	2.2	45	30	20.	—	bc. o	bc. o	o. fc	
Richmond Park	...	%	0.0	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.							
Kew. (See front page.)				Total.		Average Rate.		Max. Rate.			
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				275 Joules		8.2 Milliwatts.		16 Milliwatts.			
S. Kensington (Roof of M.O.)	80	96	0.0								

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
Dublin to 4 p.m.	mm. §	° F.	° F.	° F.				Hr.
Darwen to 9 p.m.	—	48	42	37	bc. o	c	og	*
Manchester	Trace	46	29	22	bc	bc	bc. om	2.9
Birmingham "	—	46	34	23	bc. f	f. c. o	of	0.0
Oxford to 8 p.m.	—	46	34	23	b. o	o	o. c	0.5
Teignmouth to 9,,	—	48	34	25	bc. o	o	c. o. bc	*
Plymouth "	—	49	39	34	b	b	b	6.8
S. Kensington	—	50	38	—	bc	c. b	b	7.9
(Museum Grounds to 6 p.m.)	—	48	39	30	m	m. om	om. om	*

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON  
AND SUNSET FOR STATIONS IN THE UNITED KINGDOM  
TO-DAY AND TO-MORROW.

7th & 8th November 1915.		Sunrise.	Noon.	Sunset.
		G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	...	7.0 7.2	11.37 11.37	4.14 4.12
Greenwich ...	...	7.7 7.7	11.44 11.44	4.23 4.21
Wick ...	...	7.44 7.42	11.57 11.56	4.8 4.6
Valencia ...	...	7.47 7.47	12.25 12.25	5.3 5.1

Note.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded;  
c. sky three parts clouded; d. drizzling 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. snow; t. thunder;  
u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 50° over a considerable portion of the Kingdom and fell to 32° or a little below in many places during the night. Slight rain was experienced at a few northern stations. The day was very bright locally in the South of England and South Wales.

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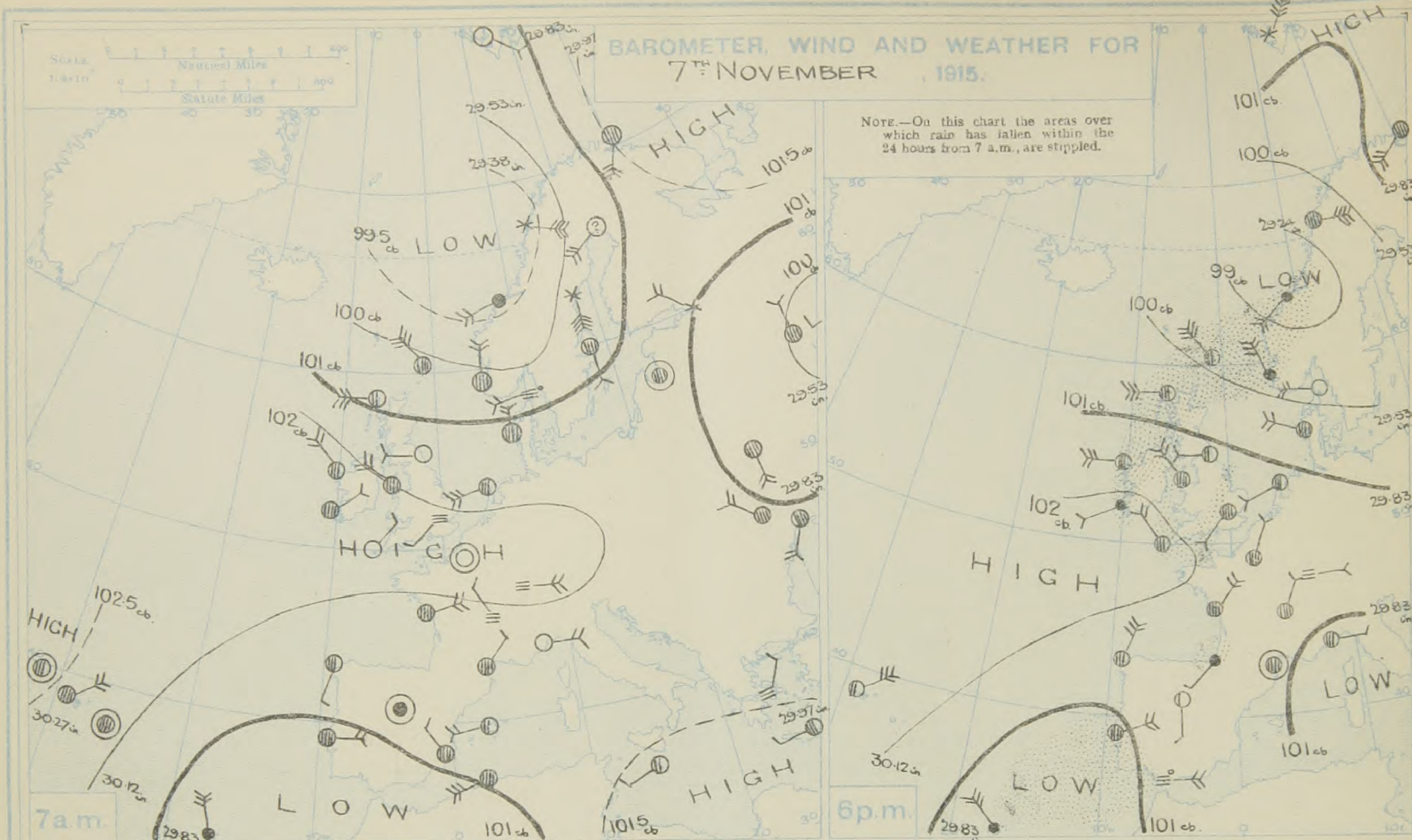
# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 312.

Monday,

21st November, 1915.

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.						Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
			Force 0-12.	Dir.		Milli- bars at M.S.L.	Change in 3 hours.	°F.	°C.	Force 0-12.	Dir.					Max.	Min.	Morning.	Afternoon.	Night.			
Lerwick ...	998.7	42	NW	6	cyp	995.9	0	40	-5	NW	3	NW	c	3	10	47	38	omg	cyp	cp		Hours.	
Deerness ...	1001.0	44	W	6	bcp.	997.9	0	40	-5	WNW	4	-	c	3	8	49	39	cp o.c	cp o.c.	bc clly	0.0		
Stornoway ...	1005.9	45	W	6	cyp	1000.8	-3	39	-6	NW	2	-	bc	2	7	49	39	cyp	cyp	c. bcp	0.1		
Castlebay (Barra Is.)	1009.9	49	W	5	sp	1002.9	-3	47	-3	W	4	-	of	4	2	51	45	op	op c. op	o. bcp	0.2		
Glasgow ...	1010.6	46	W	3	or	1004.6	-4	44	-3	W	2	-	omdg	4	2	51	43	c. bcp	og. op	cp. omr	1.7		
Eskdalemuir ...	1011.9	46	WSW	5	o	1005.6	-3	44	-3	SW	3	-	od	4	2	49	40	og. o	bc. og	og. p. o.c	1.2		
Malin Head ...	1012.6	50	NW	7	og	1005.5	-5	50	+1	W	4	-	omdg	6	4	51	47	og	og p	omdg	0.0		
Blacksod Point ...	1017.3	50	W	5	og	1008.2	+4	52	+4	W	6	NW	cyp	5	3	52	45	bc	em	bc. omr	0.3		
Valencia ...	1020.3	52	WSW	2	od	1014.6	-2	53	+7	WSW	4	NW	o	3	3	54	46	og. c. o	op o. c. o	p. bcp	0.3		
BRITISH ISLANDS.																							
Roches Point ...	1020.6	53	NW	3	o	1015.2	0	48	+1	SW	2	-	o	2	-	56	47	o. c	c. o	o. c. o	0.3		
Birr Castle ...	1018.1	48	W	1	c	1011.2	0	51	+4	WSW	1	-	o	4	5	53	42	or	c	o	4.2		
Donaghadee ...	1014.2	48	W	3	ogm	1006.9	-4	47	-2	SW	4	-	ogm	3	Trace	50	46	0	ogm	ogm	0.3		
Liverpool (Bidston) ...	1016.1	47	W	3	o	1009.6	-2	47	0	WSW	4	W	o	3	-	50	45	oe	o	o	0.3		
Holyhead ...	1016.7	51	NW	4	o	1010.7	-2	51	0	W	4	-	o	3	-	52	49	o. o. c.	c. o	o. c. om	1.4		
Pembroke (St. Ann's) ...	1018.8	52	WNW	4	cy	1013.8	-2	52	+2	WNW	3	NW	cr	3	1	52	50	cm	cm	bc c	0.0		
Scilly (St. Mary's) ...	1020.4	50	NW	3	cr	1015.9	-1	51	+7	WNW	4	NW	cr	4	1	53	44	bc. c	cr	cr. om	2.3		
Falmouth ...	1020.5	49	WNW	2	c	?	-2	50	+13	W	2	NW	o	4	-	51	?	b. bc. o	a. bc. c	c. o	2.0		
Jersey (St. Aubin) ...	1019.3	46	N	2	b	1014.8	0	50	+10	W	2	W	c	2	1	52	39	c	c. b	o. b. op. c	4.7		
Portland Bill ...	1019.0	51	NW	2	o	1014.1	-2	51	+9	WNW	3	WNW	c	3	0.1	51	42	bc. c. o	o	od. c	0.1		
Dungeness ...	1018.9	48	WSW	2	cy	1013.0	-2	44	+11	WNW	2	-	o	2	-	51	29	f. bc	bc	bc. c. o	0.1		
Dover ...	1017.3	47	W	2	c	1012.6	-1	43	+8	WNW	1	W	c	2	-	52	35	bc. o. b	bc. c	c	4.1		
Wick ...	1003.3	43	W	4	bc	1000.0	-2	40	-4	WNW	4	-	r	3	5	47	37	bc p	bc p	bc p	0.1		
Nairn ...	1006.1	46	W	2	o	1001.8	0	42	-6	WSW	2	-	ou	2	1	50	40	og	og	og	0.8		
Aberdeen ...	1006.5	48	WSW	3	c	1002.1	-1	43	-5	WSW	3	-	c	2	-	52	43	o	o. c	c	0.8		
Leith ...	1010.2	47	W	3	bc	1003.7	-2	47	-2	WSW	3	-	o	4	-	53	44	b	c. o	bc. c	0.1		
Tynemouth ...	1011.4	49	W	2	bcn	1006.2	-4	48	-1	W	2	-	ogm	3	-	52	46	bm	bcn	ogm	0.1		
Spurn Head ...	1014.0	49	WNW	4	bc	1009.0	-3	44	-1	WSW	4	-	or	4	2	52	42	bcn	bcn	bcn	1.6		
Yarmouth ...	1014.6	45	W	2	bc	1010.2	-3	40	+1	WNW	3	NW	bcn	2	-	47	39	om bcn	bcn	o. bcn	0.0		
Clacton-on-Sea ...	1016.1	46	W	2	o	1012.0	-2	43	+9	W	2	NW	c	1	0.2	45	33	bc. c. om	om	o. c. m	0.0		
Nottingham ...	1015.5	47	W	2	b	1010.4	0	43	+1	WSW	2	SW	c	0	0.1	51	42	o. c	c. b	bc. o	0.1		
Bath ...	1018.6	49	W	2	o	1013.6	0	43	+9	W	4	NW	o	0	-	51	33	m. o	m. o	m. o	0.0		
St. Farnborough ...	1017.4	47	WSW	2	o	1012.6	-2	44	+14	WSW	1	-	o	0	-	49	30	m. o	o	o. b. o	0.1		
London (Kew Obs.) ...	1017.2	46	SW	2	om	1013.0	-2	43	+10	SW	1	-	om	2	Trace	47	23	f. f. om	om	om. bcn	0.0		
NORTHERN EUROPE.																							
Spitsbergen ...	1013.6	21	NE	8	S	1019.8	+3	12	-7	NE	7	0	S	0	0	25	10						
Vardö ...	1014.9	18	?	5	o	1009.7	-3	18	-1	NW	2	-	bc	3	0	19	16						
Bodö ...	990.9	28	E	7	o	991.0	0	25	-2	E	8	-	c	4	-	28	25						
Christiansund ...	996.4	41	SW	4	r	998.0	+2	39	-9	WSW	5	-	o	4	2	43	37						
Skudesnaes ...	995.7	43	WNW	5	r	993.0	0	39	-7	-	0	-	c	4	11	46	37						
Færder (Xianla Fjord) ...	992.7	43	WSW	6	o	990.0	0	43	+2	WSW	5	-	o	3	-	45	41						
The Scaw (Skagen) ...	997.5	45	W	5	b	993.0	-3	43	-3	W	3	W	bc	3	-	49	43						
Blaavands Huk ...	1006.0	48	WNW	4	o	1000.7	-2	45	-3	WNW	4	-	o	4	Trace	43	45						
HAPARANDA.																							
Hernösand ...	1013.1	50	WSW	2	c	1008.2	-2	48	0	WSW	4	-	o	4	-	50	48						
Stockholm ...	1017.1	49	WSW	4	o	1012.3	-3	47	+11	W	2	-	o	0	-	50	36						
Wisby ...	1015.5	47	NE	4	o	1018.9	+2	52	+7	W	3	0	r	2	-	54	43						
Karlstad ...	1015.7	47	NE	4	o	1018.5	0	44	-2	NE	3	0	o	0	Trace	52	43						
Petrograd (C.M.T.) ...	1014.1	54	SW	1	r	1014.1	0	55	-	WNW	3	0	o	2	31	55	52						
FRANCE, &c.																							
The Helder ...	1013.1	50	WSW	2	c	1008.2	-2	48	0	WSW	4	-	o	4	-	50	48						
C. Gris Nez ...	1017.1	49	WSW	4	o	1012.3	-3	47	+11	W	2	-	o	0	-	50	36						
La Heve ...	1015.5	47	NE	4	o	1018.9	+2	52	+7	W	3	0	r	2	-	54	43						
Ushant ...	1015.7	47	NE	4	o	1018.5	0	44	-2	NE	3	0	o	0	Trace	52	43						
Brest (St. Mathieu) ...	1014.1	54	SW	1	r	1014.1	0	55	-	WNW	3	0	o	2	31	55	52						
Rochefort (Ile d'Aix) ...	1018.4	41	-	0	o	1015.9	-1	30	-6	-	0	-	f	0	-	46	30						
Biarritz ...	1019.0	39	E	2	f	1016.2	0	36	-1	WSW	2	0	f	0	-	44	35						
Paris ...	1017.9	45	NE	2	o	1016.6	0	41	0	WNW	1	0	f	0	-	50	41						
Nice ...	1008.4	54	E	1	c	1013.1	0	53	+5	-	0	0	c	3	-	63	48						
Perpignan ...	1013.7	58	-	0	o	1013.7	0	54	-3	WNW	3	-	b	0	Trace	63	50						
Sanguinaire ...	64	64	W	2	o	0	0	63	-	E	3	0	o	3	-	70	57						
SOUTHERN EUROPE.																							
Corunna (7 a.m.) ...	1014.9	57	NNE	5	c	1017.1	0	55	+5	NE	5	-	b	1	-	57	50						
Madrid (8 a.m.) ...	1014.9	52	S	1	b	1017.2	0	45	-3	W	1	SW	bc	0	Trace	54	41						
Lisbon (9 a.m.) ...	1007.5	61	ENE	4	o	1008.8	0	55	+1	NNE	3	-	r	2	8	63	54						
Gibraltar ...	1012.2	61	E	4	m	1011.2	0	60	-	E	4	0	o	3	18	62	58						
Rome ...	1015.9	61	S	1	m	1015.9	+1	64	0	S	1	-	m	0	-	73	63						
Malta (8 a.m.) ...	1008.4	59	W	5	r	1006.0	+2	61	+4	W	6	-	r	5	29	64	55						
Azores (Horta, 8 a.m.) ...																							
Madeira (Funchal) ...	1008.4	59	W	5	r	1006.0	+2	61	+4	W	6	-	r	5	29	64	55						
Aberdeen																							
Pilot Balloon Ascent at 8 a.m.																							
500 metres.																							





**FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay 11

Wind moderate or light from some Westerly point; cloudy or overcast generally; some rain and mist; moderate temperature.

Light Westerly winds; much cloud, some mist and slight rain; moderate temperature.

Same as Nos. 0 to 2.

Same as Nos. 3 to 5.

Wind light to fresh, between South-West and West; much cloud, some rain and mist; rather mild.

Westerly winds, moderate; sea moderate; some mist and showers.

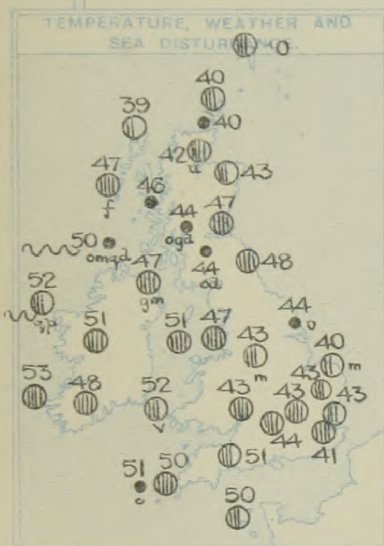
**FURTHER OUTLOOK.**



# SYNOPTIC CHART FOR 7 a.m., MONDAY, 8<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

The general conditions appear likely to become more and more unsettled over the United Kingdom and its neighbourhood.



## EXPLANATION.

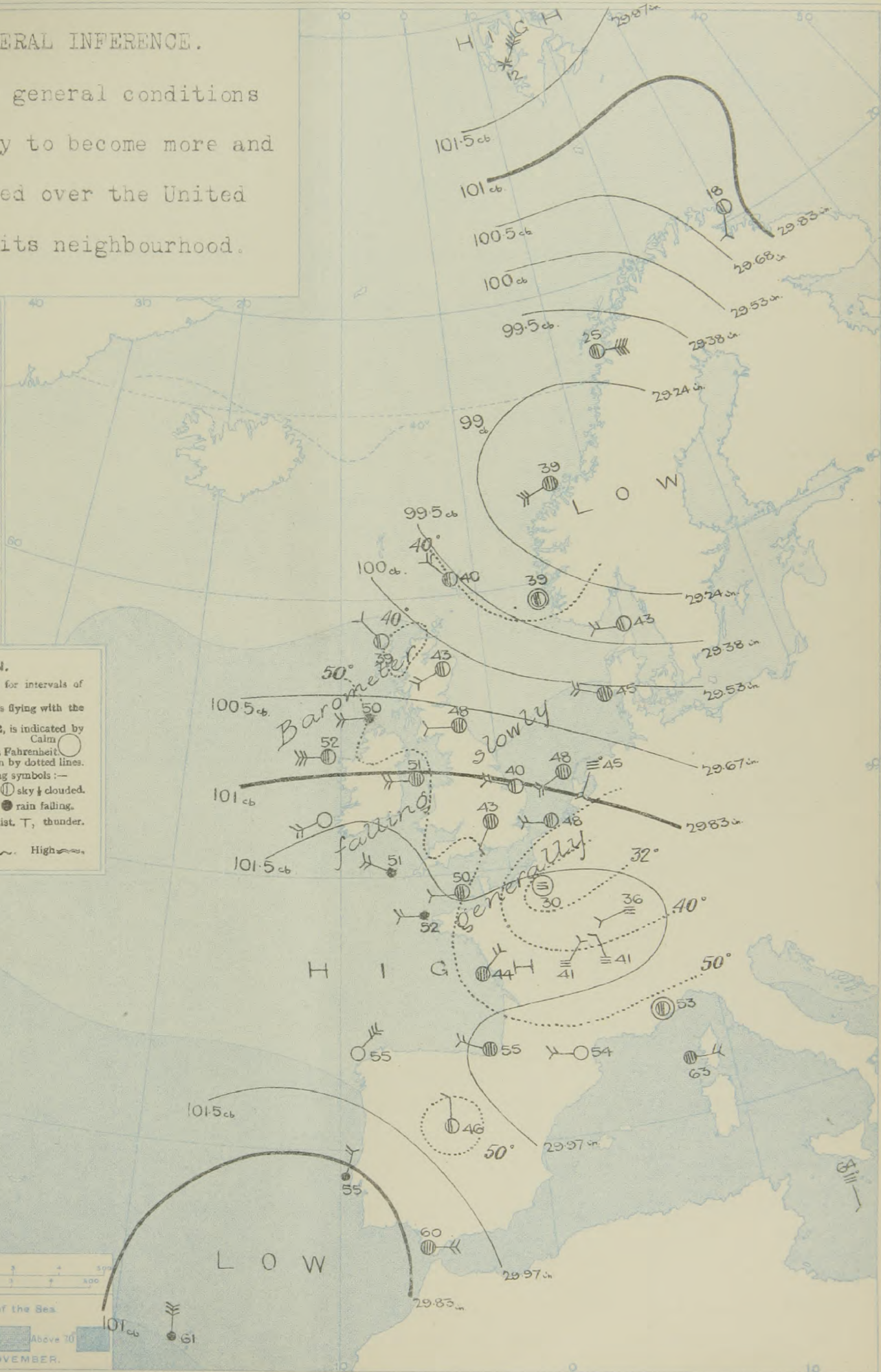
**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**WIND.**—Direction is shown by arrows flying with the wind.  
Force, on the scale 0-12, is indicated by the number of feathers. Calm.

**TEMPERATURE.**—Given in degrees Fahrenheit.  
Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—  
○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.  
● sky 3/4 clouded. ● overcast sky. ● rain falling.  
✱ snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
T, thunderstorm.

**SEA DISTURBANCE.**—Rough ~~~. High ~~~.



SCALE 1:250,000  
Nautical Miles  
Statute Miles

Normal Temperature of the Sea

Below 50° 50°-60° 60°-70° Above 70°

Scale of Tints for NOVEMBER.



## DAILY WEATHER REPORT.

Monday, 8<sup>th</sup> November, 1915.PILOT BALLOON ASCENTS for the PAST WEEK.  
Component Velocities to East and to North in Metres per Second.

Station Date & Hour	Heights in Kilometres.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
		S. Farnborough 2nd 7h.35m.	Esdailemuir 2nd 7h.29m.	S. Farnborough 3rd 7h.15m.	S. Farnborough 3rd 7h.42m.	S. Farnborough 4th 8h.	Aberdeen 4th 8h.	S. Farnborough 5th 7h.44m.	Aberdeen 5th 8h.	S. Farnborough 6th 12h.23m.	Benson 3rd 12h.7m.								
	5					+6	+1												
	4					+3	0												
	3	-3	-14		+2	-5	-2			0	-15								
	2	-4	-17		-1	-8	0	-5	-3	-9	-11								
	1	-6	-14	-6	-8	-10	-3	-9	-2	-8	-7	-4	0	-6	-8	-4			
	0.5	-3	-16	-3	-7	-11	0	-6	0	-9	-11	-3	-6	-4	-3				
	0	+1	-5	0	-5	+2	-1	0	+5	-5	+2	0	-3	-2	-4		0	-7	-5

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.	mm. & °F.	°F.	°F.	cp	cp	Hr.	Tunbridge Wells ...	mm. & °F.	°F.	°F.	b.m.b	bc.o	1.9
Banff ...	1	50	48	bc.e	cp	1.0	Margate ...	48	36	2	2	0.0	
Carnoustie ...							Ramsgate ...	48	33	bc	c.o	2.4	
St. Andrews ...							Hastings ...	51	35	b	b.bc.o	5.5	
England, N.E.							Bexhill-on-Sea ...						
Harrogate ...		52	42	c.bc	b.bc	3.2	Eastbourne ...	51	32	f.bc.b	t.bc.f.o	4.8	
Skegness ...		49	36	c.o	c.o	0.1	Seaford ...						
England, N.W.							Brighton ...	51	34	bc	bc.c.o	4.3	
Morecambe ...							Worthing ...	51	33	b	bc	3.8	
Blackpool ...		52	48	0	c.o	0.6	Littlehampton ...	48	34	b	bc.o	3.2	
Southport ...		52	49	0.0	c.bc.o	1.4	Bognor ...	49	31	bc.o	0	3.6	
Midlands.							Southsea ...	48	32	bc	0	2.1	
Buxton ...							Bournemouth ...	50	29	bc	0	2.2	
Leamington Spa ...		49	29	0.c	0.c	0.0							
Malvern ...		49	36	bc	bc	0.1							
Ross-on-Wye ...		51	30	0.c	bc.b	0.0							
Wales.							Weymouth ...	51	34	z.bc.c	c.o	2.0	
Rhyl ...		51	32	b	c.o.c	0.8	Torquay ...	52	34	c.o	om	1.3	
Colwyn Bay ...		51	45	bc	bc	0.9	Paignton ...						
Llandudno ...							Falmouth ...	51	35	b.bc.o	c.bc.c	2.0	
Aberystwyth ...		52	41	0.c	c.o	1.0	Penzance ...						
Tenby ...							Newquay ...						
England, E.							Ilfracombe ...						
Cromer ...							Weston-super-Mare ...	50	39	m.o	0	0.0	
Lowestoft ...													
Felixstowe ...	0.2	45	32	cm	cm	0.0							
Walton-on-Naze ...		46	31	ogm	om	0.0							
Southend-on-Sea ...		46	35	0	om	0.0							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.	Min. on Grass.	Max.		Fore- noon.	After- noon.	Night.
Greenwich (Royal Obs.) ...	83	97	0.0	47	33	35	mm. & °F.	om	om	om.bm
City (Bunhill Row) ...	x	x	0.0	x	x	x		x	x	x
Westminster (St. James's Pk.)	97	97	0.0	47	36	35		om	om	om.
Camden Sq. (Brit. Rainfall)		96	0.0	47	36	35				
Hampstead (Reservoir) ...	x	99	0.0	45	33	27		c.o	om	of
Richmond Park ...			0.0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	86	94	0.0	2.05	6.1	12.1	Joules	Milliwatts.	Milliwatts.	

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON  
AND SUNSET FOR STATIONS IN THE UNITED KINGDOM  
TO-DAY AND TO-MORROW.

Stations.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.2	11.37	4.12
Greenwich ...	7.4	11.37	4.10
Wick ...	7.7	11.44	4.23
Valencia ...	7.9	11.44	4.23
	7.44	11.56	4.6
	7.51	12.25	5.1
	7.51	12.25	4.59

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded;  
c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder;  
u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to above 50° over a large area.  
Slight rain fell at many places in the north and west, and  
as a whole the sky was very cloudy or overcast.The Daily Weather Report is sent free by post to any address in the  
United Kingdom on payment of 6s. per annum, for postage and wrappers.  
Single copies 1d. at M.O. and at the bookstalls at certain Railway  
Termini in London.



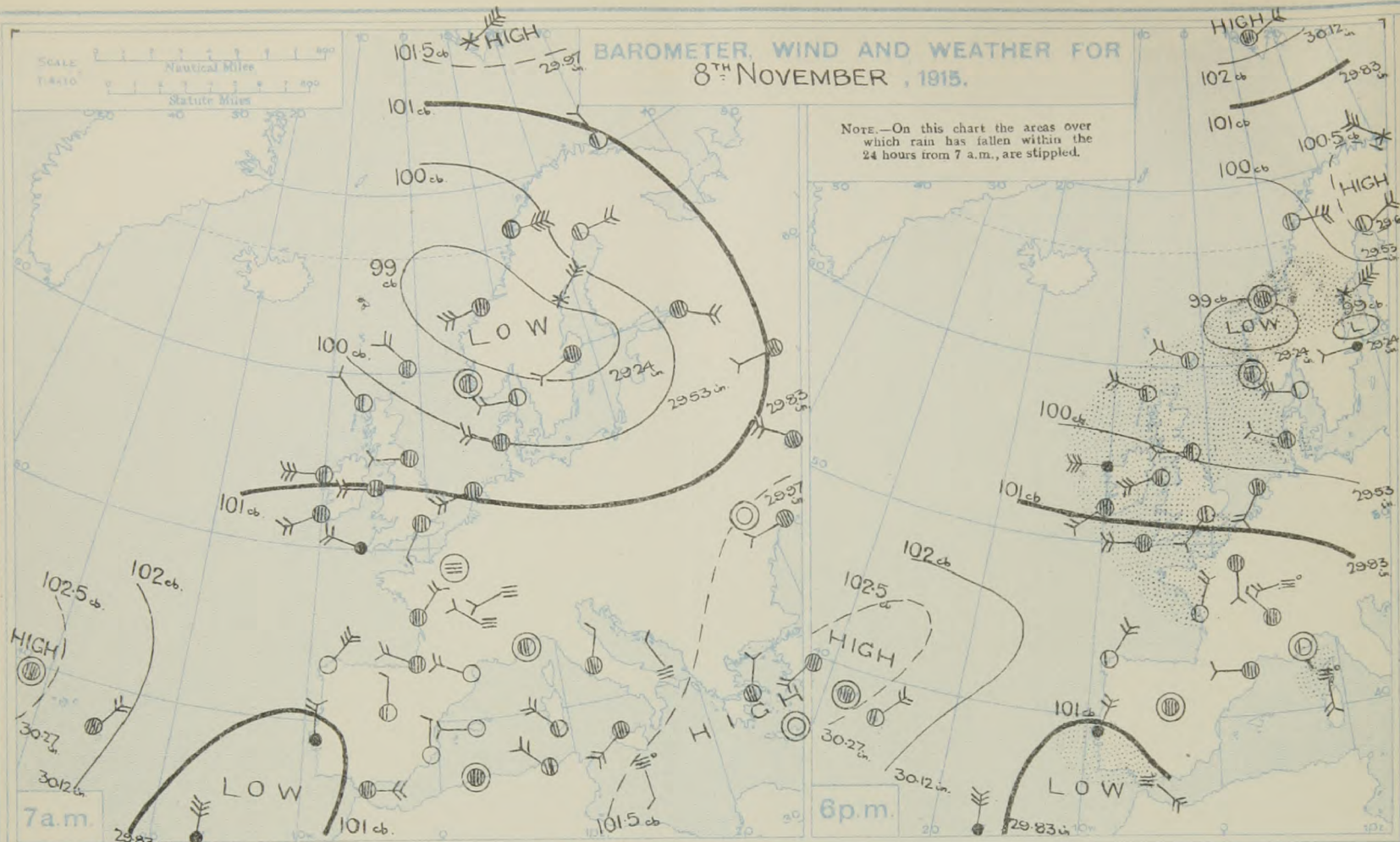
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	Temp.	Wind.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Wind.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	Temp.		Weather.				
			Force	Dir.						Force	Dir.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick ...	993.8	40	WNW	3	bc	990.0	-1	28	-2	SW	1	W	bc	1	2	43	37	bef	bcp	bc	Hours.
	Deerness ...	993.9	39	W	3	b	987.1	-2	39	-1	ENE	3	-	o	2	6	43	36	p.c	ep bc b	b.c.c.o	?
	Stornoway ...	996.0	39	WNW	4	bcp	984.4	-3	39	0	NE	5	-	epthq	5	6	47	35	bc	bcp	c.o.phq	2.4
	Castlebay(BarraIsd.)	996.8	47	W	4	ep	984.5	-2	40	-7	N	4	-	op	4	17	47	38	op	op	bc op	0.0
	Glasgow ...	998.5	46	WSW	3	o	975.7	-16	46	+2	S	4	-	o	4	16	43	44	ond	ond om	odp or	0.0
	Esksdalemuir ...	997.3	45	WSW	5	or	980.1	-13	46	+2	SW	6	-	op	8	34	43	43	od.or	rov.or	ov.og	0.0
	Malin Head ...	999.5	48	WNW	4	omgp	982.9	+5	42	-8	SW	8	-	omr	7	28	51	42	cmp	omr	omr	0.0
	Blacksod Point ...	1001.9	50	W	6	omr	991.3	0	40	-12	W	2	W	omr	6	9	52	38	cg	omr	omr	0.0
	Valencia ...	1007.5	51	SW	2	o	995.1	-1	48	-5	WNW	4	-	bc	4	10	54	47	op	bcp	or.o.c	0.6
	Roche's Point ...	1012.3	53	W	3	o	994.8	0	46	-2	WNW	3	N	b	3	24	54	46	o	o.c.o	op.b	0.0
	Birr Castle ...	1004.7	50	SW	2	o	991.3	0	40	-11	W	2	SW	c	8	9	53	40	cmp	omr	or.c	1.1
	Donaghadee ...	1001.1	48	SW	4	ogm	983.3	+1	43	-4	WSW	6	W	ogp	5	3	52	42	c.omp	ogm	omr.gp	0.0
	Liverpool (Bidston) ...	1003.1	51	WSW	4	o	987.1	-9	50	+3	SSW	4	SW	or	3	2	55	47	a	c.o	or	0.7
	Holyhead ...	1004.0	53	WSW	5	omr	987.7	-5	49	-2	W	6	-	omr	6	10	55	48	cpd.o.c	cp.o.c	a.omp	0.1
	Pembroke(St. Ann's) ...	1007.7	52	W	4	bcp	991.0	-9	52	0	SW	7	-	omr	6	4	53	50	c.ody	ogp	omr	0.6
	Scilly (St. Mary's) ...	1011.4	52	W	4	op	988.1	-8	52	+1	SW	6	SW	ogp	6	2	55	49	c.omp	op	ogp	0.1
	Falmouth ...	1011.1	51	W	3	o	988.7	-7	51	+1	SW	6	SW	r	4	2	56	47	o	o.b.c.o	o.b.r	2.2
	Jersey (St. Aubin) ...	1011.9	53	W	3	o	1004.0	0	53	+3	SW	4	-	o	3	0.1	58	49	c	c.o	b.ody.o	3.3
	Portland Bill ...	1009.8	49	W	4	bc	999.1	-7	53	+2	SW	6	SW	ogp	5	1	55	48	c	c	cp	0.0
	Dungeness ...	1008.5	49	SW	3	b	1000.4	-3	52	+11	SW	4	SW	c	4	1	52	40	of c.b.c	bc.b	b.bcp	0.0
	Dover ...	1009.1	45	W	2	b	1000.0	-4	50	+7	SW	5	W	c	4	Trace	52	43	c.b.c	b	cp.c	4.1
	Wick ...	996.1	36	W	1	r	?	?	?	?	?	?	?	?	2	2	45	33	r.b.c	bcp or	bcp	0.0
	Nairn ...	996.1	41	W	1	r	988.4	0	37	-5	ENE	3	-	or	3	4	44	38	odg.	gp	bcp	0.0
	Aberdeen ...	996.7	42	-	0	or	982.0	-12	43	0	E	6	-	ogp	4	5	49	36	o.c	bc.or	c.b.og	0.2
	Leith ...	997.3	47	WSW	3	o	977.6	-8	47	0	SE	1	-	o	12	50	43	od.o	od.o	o.b.c	0.0	
	Tynemouth ...	999.3	49	W	2	cm	983.6	-12	49	+1	SW	3	SW	ogm	3	3	52	47	ond	cmp	ogm	0.0
	Spurn Head ...	1003.4	50	WSW	4	or	991.8	-5	49	+5	WSW	5	-	ogp	5	0.4	50	43	or.c.m	or	bc.og	1.4
	Yarmouth ...	1006.4	48	W	2	bc	996.5	-4	47	+7	SW	2	-	b	5	-	53	40	bcm	bcm	bc.b	2.7
	Clacton-on-Sea ...	1007.9	46	WSW	2	bc	995.6	-3	47	+4	SW	3	SW	c	2	-	50	44	cm	c.bcm	bcm.c	1.1
	Nottingham ...	1004.1	51	SW	4	bc	991.7	0	49	+6	SW	5	SW	r	0.2	54	43	cm	cm.b.c	bc.c.o	1.5	
	Bath ...	1008.4	52	W	0	o	996.7	0	50	+7	SW	4	SW	o	0	-	56	41	om.c.bc	bc.c.ody	d.ogp	2.0
	St. Farnborough ...	1008.4	47	-	0	b	998.3	-6	49	+5	SW	3	W	or	0	-	52	34	o.c.b.c	b.o.b	b.u	2.3
	London (Kew Obs.) ...	1009.1	48	SW	2	bc	997.8	-7	49	+6	SW	5	SW	o	Trace	50	43	om.c.bc	bcm.ome	bc.b.o	0.0	
NORTHERN EUROPE.	Spitsbergen ...	1022.0	7	ENE	4	o	1021.9	0	-6	-18	-	0	0	0	0	12	-8					
	Vardö ...	1004.3	23	NW	5	o	996.8	-3	27	+9	N	6	-	o	4	0	27	12				
	Bodö ...	995.7	21	E	5	bc	997.9	+1	19	-6	E	5	-	c	2	-	25	16				
	Christiansund ...	995.0	39	-	0	o	990.6	0	37	-2	E	1	-	b	3	20	41	36				
	Skudesnaes ...	995.2	39	-	0	c	991.1	0	39	0	SE	4	-	c	4	7	43	37				
	Færder (N. of Oslo) ...	992.6	41	WSW	1	b	995.7	+3	34	-9	ENE	1	-	o	2	-	43	34				
	The Scaw (Skagen) ...	994.4	43	WNW	5	b	995.1	+2	39	-4	WSW	1	W	c	2	-	46	36				
	Blaavands Huk ...	999.7	46	WNW	2	o	995.8	-1	45	0	S	1	-	o	1	6	46	39				
	Haparanda ...	1005.3	9	ENE	4	bc	1005.3	0	1	-8	N	2	N	bc	0	-	44	0				
	Hernösand ...	996.0	16	ENE	8	c	1000.3	+3	24	-7	WNW	4	-	o	10	30	19					
FRANCE, &c.	Stockholm ...	990.1	34	W	2	r	996.2	+3	28	-9	WNW	2	-	o	0	37	27					
	Wisby ...	991.3	43	WSW	4	c	997.1	+3	36	-7	N	2	-	o	0	45	34					
	Karlstad ...	993.6	30	NNE	2	b	997.6	+3	28	+3	NE	2	-	o	0	30	23					
	Petrograd (5 a.m. G.M.T.) ...																					
	The Helder ...	1004.7	50	SW	3	o	997.6	-5	50	+2	SW	4	-	c	4	-	50	48				
	C. Gris Nez ...	1009.6	48	WSW	4	b	1000.4	-3	52	+5	SW	7	-	r	5	3	50	48				
	La Hève ...	1011.5	50	WSW	4	o	1003.3	0	48	+2	SW	3	-	o	4	1	54	45				
	Ushant ...																					
	Brest (St. Mathieu) ...	1014.3	53	WNW	4	o	1006.1	-4	54	+2	SW	5	-	o	4	1	55	50				
	Rochefort (Ile d'Aix) ...	1014.7	49	NNE	3	b	1011.3	-1	50	+6	SSW	3	-	o	Trace	54	45					
SOUTHERN EUROPE.	Biarritz ...																					
	Paris ...	1012.7	45	S	2	o	1008.2	-2	45	+15	SSW	3	-	o	0	-	46	30				
	Belfort ...	1013.9	41	WSW	3	m	1012.6	0	36	0	-	0	-	o	0	-	43	36				
	Lyons ...	1014.3	46	WNW	1	o	1012.6	0	44	+3	-	0	-	o	0	-	52	44				
	Nice ...	1011.7	53	-	0	b	1009.1	-1	51	-2	-	0	-	c	2	-	62	50				
	Perpignan ...	1012.7	57	W	2	o	1010.3	0	52	-2	W	1	-	o	0	-	64	50				
	Sanguinaire ...		62	S	3	m		0	60	-3	SE	3	-	r	3	2	66	57				
	Corunna (7 a.m.) ...	1015.7	57	NE	4	b	1014.1	0	43	-12	SSW	1	-	m	2	-	59	41				
	Madrid (8 a.m.) ...	1013.7	54	-	0	o	1014.3	+2	45	0	NNE	1	-	b	0	-	55	41				
	Lisbon (9 a.m.) ...	1009.2	57	NNE	4	r	1011.4	-1	57	+2	N	3	-	o	5	3	61	54				
SOUTHERN EUROPE.	Gibraltar ...	1009.5	62	SE	4	m	1008.8	0	62	+2	SE	3	-	r	3	8	62	59				
	Rome ...																					
	Malta (3 a.m.) ...						1012.8	3	68	+4	SW	2	-	o	1	-	77	60				
SOUTHERN EUROPE.	Azores(Horta, 8 a.m.) ...	1025.6		-	0	o	1025.6	0	60	-	0	0	0	0	2	-	70	59				
	Madeira (Funchal) ...	1011.7	61	N	6	r	1017.7	+2	59	-2	N	4	N	c	4	-	66	55				

## South Farnborough.

Plot below at about 7 a.m.

500 metres SW by W 40 miles per hour  
1200 metres WSW 60 " " "





**FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

South Cone  
hoisted  
at 2.15 a.m.

Western Channel and Bay

N.E. to N.W. squally increasing wind, strong to gale at times; some rain and hail; becoming colder.  
Increasing squally winds, strong to gale, S. to W. and N.W. in South; E. to N. and N.W. in North; some rain and hail; mild at first, then colder.

Increasing squally South-Westerly wind, strong to gale at times, veering Westerly or North-Westerly later; some rain and hail; mild at first, then colder.

Squally wind between West and North, strong to gale at times; some rain and hail; becoming colder.

Same as Nos. 2 to 5.

Same as No. 6.

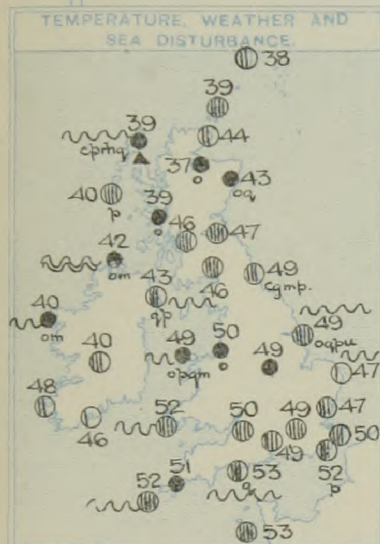
Squally South-Westerly to Westerly winds; strong to gale at times; high sea and swell; dull, some rain; mild.

**FURTHER OUTLOOK.**



GENERAL INFERENCE.

The deep depression near Glasgow will occasion disturbed weather all round.



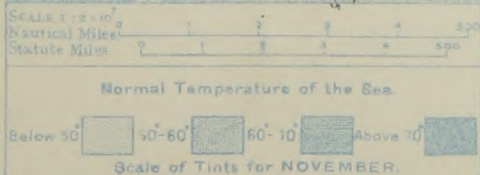
EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm   
**TEMPERATURE.**—Given in degrees Fahrenheit.  
 Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 clear sky. sky 1/4 clouded. sky 1/2 clouded. sky 3/4 clouded. overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.  
**SEA DISTURBANCE.**—Rough High .

Inches.  
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# DAILY WEATHER REPORT.

Tuesday, 9th November, 1915.

## REPORTS FOR YESTERDAY.

8th November, 1915.

STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain-fall, Millimetres.	TEMP.	
	Barom. Millibars at M.S.L.	Temp.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Dir., of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
			Dir.	Force 0-12.		Millibars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.							
		° F.						° F.	° F.									
Haparanda	1008.2	14	ESE	4	o	1006.0	0	9		E	14	-	bc	+	-	13	9	
Hornsand	992.0	24	S	5	r	991.1	0	28	-4	NE	6	-	S	+	15	34	23	
Stockholm	993.0	39	S	2	o	987.7	-1	37	+5	WSW	2	-	o	+	2	39	32	
Wexley	992.4	43	S	6	o	990.6	-3	42	+7	WSW	6	-	bc	+	1	45	34	
Helsinki	992.6	34	-	0	bc	989.0	-1	25	-11	-	0	-	b	+		41	19	
Petrograd	1008.7	16	N	2	x	1002.4	-5	14	-4	ESE	4	-	o	+	-	16	12	
La Hève	?	45	-	0	b	?	?	46	+5	WSW	4	-	o	+		53	43	
Rome	1015.9	59	W	1	bc	1012.7	+2	54		W	1	-	o	+	-	66	54	

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun-shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun-shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.	mm.†	°F.	°F.			Hr.	Tunbridge Wells ...	mm.†	°F.	°F.			Hr.
Banff ...	0.4	47	38	c	c.bc	0.1	Margate ...	-	50	42	-	-	2.3
Carnoustie ...	-	48	40	*	*	0.0	Ramsgate ...	-	52	40	c.bc	bc	2.7
St. Andrews ...	-	48	40	*	*	0.0	Hastings ...	-	50	41	0.bc	bc.b	2.1
England, N.E.							Bexhill-on-Sea ...	-	51	43	of	bcg	1.3
Harrogate ...	2	50	45	oc	9.0c	0.0	Eastbourne ...	-	52	40	bc	bc	2.4
Skegness ...	1	53	38	og	0.8c	1.5	Seaford ...	-	52	41	0.c	c	1.9
England, N.W.							Brighton ...	-	53	40	bc	bc	2.2
Morecambe ...	2	52	47	c.5d	d.0c	0.0	Worthing ...	-	51	44	bc	bc	2.0
Blackpool ...	1	52	48	c.0	0.0	0.0	Littlehampton ...	-	51	44	bc	bc	1.9
Southport ...	3	52	48	0.c.0	0.0	0.0	Bognor ...	0.1	53	42	bc	bc	2.2
Midlands.							Southsea ...	-	52	42	bc	bc	1.8
Buxton ...	-	53	35	c.bc	bc.0c	2.3	Bournemouth ...	-	53	35	bc	c	1.8
Leamington Spa ...	0.2	53	40	c.bc	bc.c	1.1	Weymouth ...	-	55	45	3.bc.c	c.bc	1.3
Malvern ...	-	55	35	0c	d.c.0	1.5	Torquay ...	0.2	54	43	0	c.bc.b	0.3
Ross-on-Wye ...	-	55	35	0c	d.c.0	1.5	Paignton ...	1	55	44	c	c	0.5
Wales.							Falmouth ...	-	56	48	0	0.bc.0	2.2
Rhyl ...	-	58	47	0.c	cp	0.6	Penzance ...	5	56	49	0.c	cp	0.8
Colwyn Bay ...	-	54	49	bc.c	bc.0	0.4	Newquay ...	-	56	49	0.c	cp	0.8
Llandudno ...	-	53	45	0.c.0	c.0	0.0	Ilfracombe ...	-	56	49	0.c	cp	0.8
Aberystwyth ...	-	53	45	0.c.0	c.0	0.0	Weston-super-Mare ...	-	56	49	0.c	cp	0.8
Tenby ...	1	54	41	bc.op	p.bc.0	0.8							
England, S.W.													
Cromer ...	-	53	39	0.c.bc	bc	3.7							
Lowestoft ...	-	49	39	0m	bcf	2.8							
Felixstowe ...	-	49	41	bc	bc.m	1.8							
Walton-on-Naze ...	-	49	37	3.c.bc	bc.b	0.2							
Southend-on-Sea ...	-	49	37	3.c.bc	bc.b	0.2							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	%	%	Hr.	° F.	° F.	° F.	mm.			
City (Bunhill Row) ...	72	71	1.3	51	43	40	-	o.c	c.b.c	b.c.c
Westminster (St. James's Pk.)	70	70	0.3	51	43	40	-	o.c	o.c	o.c
Camden Sq. (Brit. Rainfall)	71	70	1.3	52	44	40	-	m.b.c	b.c.m	b.c.m
Hampstead (Reservoir) ...	71	70	0.6	52	44	42	Trace	m.c	b.c	o.c
Richmond Park ...	71	70	2.0	50	40	34	-	b.c.0	b.c.0	o.c
Kew. (See front page.)				VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)	69	78	1.5	285 Joules		8.6 Milliwatts.		23 Milliwatts.		

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

Station.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.4	11.57	4.10
Greenwich ...	7.7	11.54	4.17
Wick ...	7.49	11.56	4.1
Valencia ...	7.51	12.25	4.59

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

## Additional Observations for Yesterday.

STATIONS.	Rain-fall.	TEMPERATURE.		WEATHER.		Sun-shine for Yesterday.
		In Screen.	Night Min. on Grass.	Night.	Fore-noon.	
		Max.	Min.			
Dublin to 4 p.m.	mm.†	°F.	°F.			Hr.
Darwen to 9 p.m.	8	49	44	39	on	0.5
Manchester "	-	51	40	34	0	1.2
Birmingham "	0.4	51	40	34	0	1.2
Oxford to 8 p.m.	-	56	46	39	bc	0.2
Teignmouth to 9, Plymouth "	-	56	46	39	bc	0.2
S. Kensington (Museum Grounds to 8 p.m.)	Trace	52	42	31	on.b.bc	0.0

## NOTES ON YESTERDAY'S WEATHER.

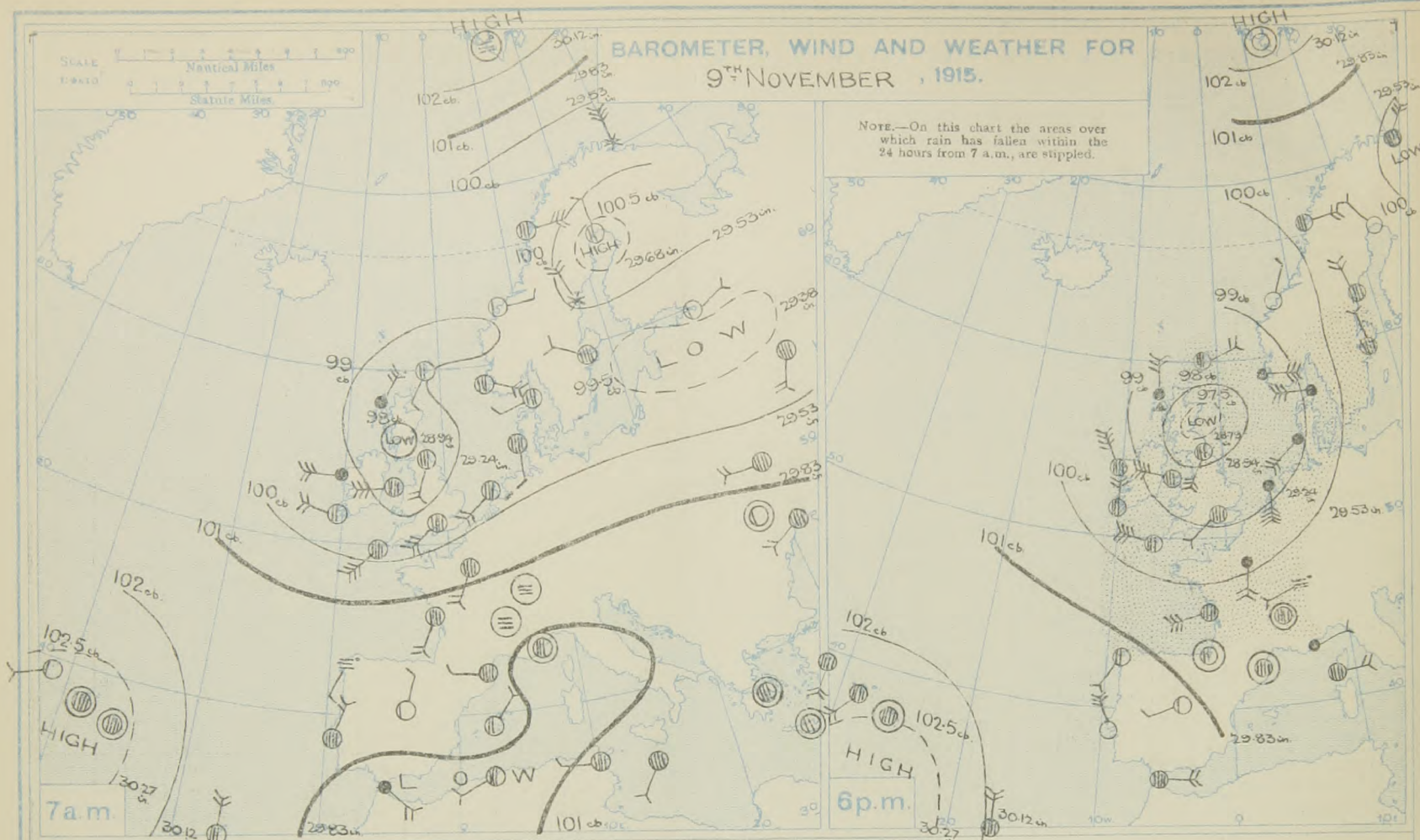
There was a general increase of temperature, to 55° or 56° locally. Rain spread to nearly all districts 34 mm. at Eskdalemuir and 28 mm. at Malin Head. As a rule there was little or no sunshine. A gale, was felt in the north of Ireland during the night.

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STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 5 hours.	Temp. °F.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Direc.	Force 0-12.						Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.																					
Lerwick ...	955.8	43	ENE	4	c	982.1	0	41	+3	NE	8	-	org	7	18	43	38	bc	bc	org	Hours.
Deerness ...	979.7	42	NE	7	org	979.3	0	40	+1	NE	7	-	org	6	20	43	39	bc	org	org	0.0
Stornoway ...	984.9	41	N	5	cprhy	987.8	+2	42	+3	N	7	-	org	6	18	43	39	o cprhy	cprhy	cpr	0.0
Castlebay (Barra Isd.)	985.6	45	NNW	5	o	990.8	+2	45	+5	NNW	5	NW	o	5	3	46	38	gp	o	bchp. o	0.0
Glasgow ...	977.1	39	WNW	5	org	982.9	+4	40	-6	NW	3	N	c	7	46	34	49	org	o cpr	o cpr	0.0
Esksdalemuir ...	976.5	35	WNW	6	org	980.5	+3	38	-8	NW	6	NW	bc	6	46	34	49	org	o cpr	o cpr	0.0
Malin Head ...	984.7	46	NNW	8	cpr	989.0	+2	45	+3	NNW	9	-	org	9	4	47	40	cmpr	bcpr	cmpr	3.4
Blacksod Point ...	992.5	44	NNW	7	omp	999.6	+3	43	+3	NNW	8	N	cpr	6	6	45	36	cpr	cpr	cpr	0
Valencia ...	996.2	44	N	4	c	1004.4	+3	46	-2	NNW	5	NW	bcpr	4	6	49	41	bcpr	cpr	cpr	1.8
NORTHERN EUROPE.																					
Spitsbergen ...	1020.2	-8	-	0	b	1019.9	+1	-13	-7	-	0	-	b	0	0	-4	-13	GALES. Duration and Extreme Force in British Islands.			
Vardö ...	998.0	28	NE	5	o	1005.2	+3	23	-4	NNE	5	-	o	4	0	25	16				
Bodö ...	1000.6	21	E	4	c	1004.6	+2	21	+2	E	4	-	o	2	-	21	18	Lerwick 10th Jan-7am NE 8			
Christiansund ...	995.1	37	NE	1	b	990.7	-2	37	0	NE	3	-	c	3	-	41	34				
Skudesnaes ...	983.8	43	ESE	6	r	979.5	0	41	+2	SE	6	-	r	5	6	43	37	Deerness 9th 11th NE 8			
Færder (X'ania Fjord) ...	995.3	34	E	6	r	987.8	-2	37	+3	E	6	-	r	4	15	37	32				
The Scaw (Skagen) ...	992.0	39	WNW	6	r	986.0	-2	45	+6	W	5	-	r	4	14	46	37	Stornoway 9th night N 8 in Squalls			
Blaavands Huk ...	988.7	48	SW	5	r	983.8	0	46	+1	SEW	4	-	o	5	18	46	43				
Haparanda ...	1005.6	1	NNW	2	b	1010.1	+4	-4	-5	NNW	2	-	b	0	-	5	-4	Esksdalemuir 10th 1am NW 8			
Hernösand ...	1004.4	21	NNW	4	o	1009.2	0	21	0	NE	4	E	bc	0	2	21	19				
Stockholm ...	1002.4	28	N	2	o	1002.0	-2	32	+4	ESE	6	-	3	0	Trace	32	28	Malin Head 9th 7am-10th 7am NW 8 10th 1am-7am NW 9			
Wisby ...	1001.9	32	WSW	2	b	999.3	-1	39	+3	E	6	-	r	4	5	43	30				
Karlstad ...	1000.6	28	E	4	o	994.9	-7	30	+2	ENE	6	-	3	0	9	30	23	Blacksod Point 9th 7am-10th 7am NW 8 10th 1am NW 9			
Petrograd (6 a.m. G.M.T.)	1000.6	28	E	4	o	994.9	-7	30	+2	ENE	6	-	3	0	9	30	23				
FRANCE, & C.																					
The Helder ...	987.9	48	S	8	r	984.6	0	46	-4	SW	6	-	c	4	9	52	46	Valencia 10th 1am NW 8			
C. Gris Nez ...	988.3	51	SW	8	r	990.3	+3	45	-7	W	7	0	b	7	11	54	43				
La Hève ...	991.4	49	SSW	7	r	991.8	0	44	-4	WSW	8	0	org	7	22	54	41	Southport 9th 9pm-10th 7am NW 8 Gusts 26 metres per second			
Ushant ...	997.0	51	WSW	6	c	1000.3	+2	50	-4	NW	6	0	c	4	12	57	46				
Brest (St. Mathieu) ...	1003.1	54	WSW	6	o	1003.9	+3	50	0	WNW	7	0	o	0	8	55	46	Holyhead 9th 7am Ex. NW 8 Gust 22 met/sec 9th 9pm-10th 7am NW 8 Ex. NW 9 7am 10th			
Rochefort (Ile d'Aix) ...	1007.1	51	-	0	bc	1009.6	+3	54	0	WSW	5	0	o	4	3	61	50				
Biarritz ...	995.7	50	S	4	o	996.6	+4	44	-4	SW	3	-	bc	0	4	52	41	Pembroke 9th 7am-8am SW 8			
Paris ...	1005.7	43	WSW	2	m	1001.1	0	39	+3	W	7	0	r	0	1	44	36				
Belfort ...	1006.4	48	-	0	o	1005.1	0	43	-1	SW	1	0	c	0	2	52	42	Scilly 9th Noon Squall NW 8 10th 2am-7am NW 8			
Lyons ...	1007.3	52	ENE	2	r	1004.3	-3	49	-2	-	0	0	r	3	52	61	48				
Nice ...	1007.8	54	-	0	o	1008.2	+5	50	-2	NW	4	NW	o	0	-	64	41	Portland 9th 11am-2pm SW 8			
Perpignan ...	1007.8	54	-	0	o	1008.2	+5	50	-2	NW	4	NW	o	0	-	64	41				
Sanguinaire ...	987.8	62	E	3	o	987.8	0	58	0	SE	3	-	o	3	-	64	52	Dungeness 9th 10am-8pm SW 9			
Corunna (7 a.m.)	1012.0	57	SW	2	bc	1016.6	+5	54	+11	N	3	-	c	4	5	57	48				
Madrid (8 a.m.)	1010.7	55	WSW	1	b	1014.4	+2	45	0	W	1	NE	o	0	-	57	43	Dover 9th 1pm-8pm SW 9			
Lisbon (9 a.m.)	1014.1	57	NNW	5	b	1016.3	0	57	0	WSW	4	-	o	5	-	61	54				
Gibraltar ...	1012.2	60	E	4	o	1015.9	0	57	-5	NW	4	0	b	2	16	64	55	Wick 9th 4pm-10th 7am NNE 8 Ex. NNE 9 at 9pm gk.			
Rome ...																					
Malta (8 a.m.)																					
SOUTHERN EUROPE.																					
Azores (Horta, 8 a.m.)	1024.8	63	SW	4	o	1020.6	-2	65	+5	SSW	6	0	o	4	-	68	60	Nairn 9th 11am-12th NNE 8 Ex. NNE 10 at 2pm gk.			
Madeira (Funchal)	1019.8	63	N	4	o	1022.7	+1	57	-2	N	3	-	b	3	-	68	57				
South Farnborough Pilot Balloon Ascent, at about 7am 500 metres W by N 40 miles per hour 2000 metres NW 35 miles per hour.																					





**FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

Cones Hoisted at 2.15 a.m.

Western Channel and Bay 11

0 } Squally North-Westerly to Northerly winds, strong to  
1 } gale at times; changeable, fair to dull, some rain and  
2 } hail; cool, local night frost.

3 } Squally South-Westerly winds, veering Westerly and  
4 } North-Westerly, strong to gale at times; changeable, fine  
5 } to dull, some rain and hail; cool, local night frost.

6 }  
7 }  
8 } Same as Nos 0 to 2.

9 }  
10 }  
11 } Squally North-Westerly winds, strong to gale at times;  
high sea and swell; fair to dull, some showers; colder.

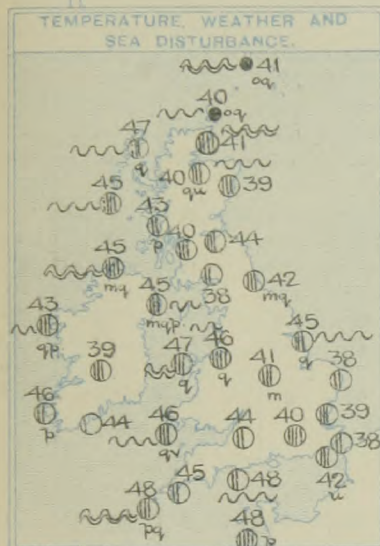
**FURTHER OUTLOOK.**



# SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 10<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

A squally North-Westerly type of conditions becoming general.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

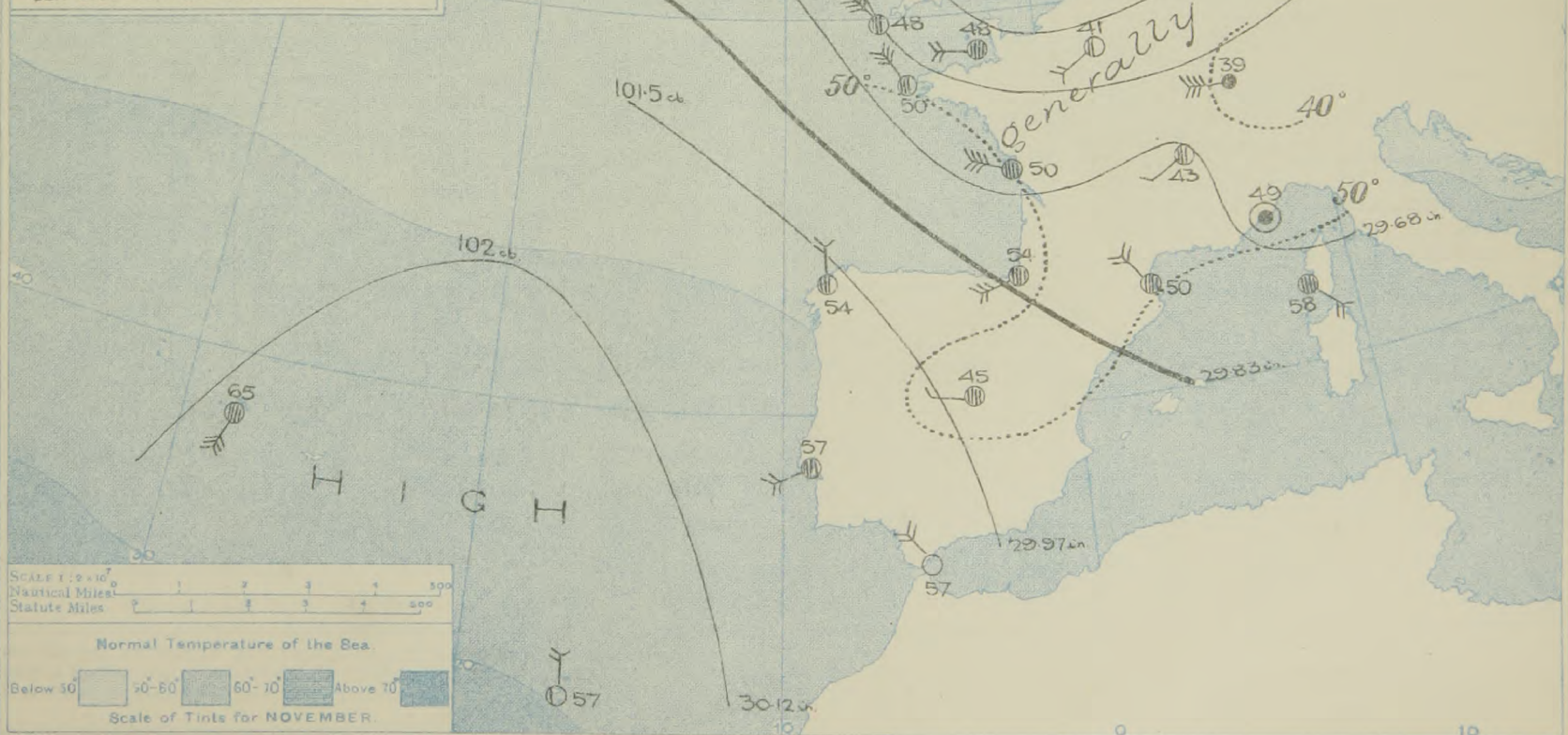
**WIND.**—Direction is shown by arrows flying with the wind.  
Force, on the scale 0-12, is indicated by the number of feathers.

**TEMPERATURE.**—Given in degrees Fahrenheit.  
Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky ½ clouded. ○ sky ¾ clouded.  
○ sky ¾ clouded. ○ overcast sky. ○ rain falling.  
\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough wavy. High wavy.





## DAILY WEATHER REPORT.

Wednesday, 10th November, 1915.

REPORTS  FOR  YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain- fall. Milli- metres.	TEMP.	
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.							
	Petrograd.	996.0	° F.				996.4	+1	° F.			ENE	2	-	b	*	2	16	7
.....9th November, 1915.....																			

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm. & .	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. & .	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.		° F.	° F.				(Tunbridge Wells ...		° F.	° F.			
Oban ...	2.9	44	38	r	o	0.0	Margate ...	6	53	42	o	r	0.0
Banff ...	17	46	30	ry	opry	0.0	Ramsgate ...	3	52	42	o	r	0.0
Carnoustie ...							Hastings ...	13	53	45	o. o	o	0.0
St. Andrews ...							Bexhill-on-Sea ...						
England, N.E.							Eastbourne ...	13	54	46	ry	ry	0.0
Harrogate ...	3	48	39	o. o. b. b	o. o. b. b	2.6	Seaford ...	17	53	43	r	r	0.1
Skegness ...	3	50	41	o	o	0.0	Brighton ...	15	55	46	o. o	o. o. o	0.1
England, N.W.							Worthing ...	11	53	44	ry	r	0.1
Morecambe ...							Littlehampton ...	9	53	43	o	r	0.1
Blackpool ...	11	51	42	o. b. c	o. o. h. o. m	4.2	Bognor ...	5	52	43	o	o	0.0
Southport ...	4	48	43	o. ry. c	o. o. p. b. c	2.6	Southsea ...	10	53	46	o	o	0.0
Midlands.							Bournemouth ...	5	52	44	o	o. o	0.0
Buxton ...	13	47	38	r. c. b	e	2.4	Weymouth ...	11	54	44	o. d. r	o. c	0.0
Leamington Spa ...	4	50	42	r. o. c	c. b	0.0	Torquay ...	7	53	44	r. o. p	o. o. c	0.6
Malvern ...	6	49	41	o. c	c. o. c	0.8	Paignton ...						
Ross-on-Wye ...	6	50	47	o	o. c. b	1.2	Falmouth ...	13	52	42	ry. o	o. p. o. c	1.7
Wales.							Penzance ...	16	51	45	o	o. c	1.2
Rhyl ...	8	49	41	r. c	o. b. c. e	4.9	Newquay ...						
Colwyn Bay ...	9	48	42	r. c	o. c. p	5.0	Ilfracombe ...	14	53	43	r. o	o. o. p. c	1.0
Llandudno ...							Weston-super-Mare ...	4	51	44	r. c	c. b. c	0.5
Aberystwyth ...	13	50	44	r. o. c	c. o	2.5							
Tenby ...	15	50	45	o. c. o. p	o. c. o. p	4.0							
England, E.													
Cromer ...													
Lowestoft ...													
Felixstowe ...	5	51	42	o	o	0.1							
Walton-on-Naze ...	5	50	43	c. o. c	o. ry. c	0.2							
Southend-on-Sea ...	5	51	42	o	r	0.0							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 90	% 86	Hr. 0.0	° F. 52	° F. 35	° F. 30	mm. & 8	o. or or	o. b. h.	
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	
Westminster (St. James's Pk.)	93	86	0.0	53	36	22	8	o. or or	o. b.	
Camden Sq. (Brit. Rainfall)	92	87	0.0	52	35	32	9	o. or or	*	
Hampstead (Reservoir) ...	*	83	0.0	50	33	23	9	o. or or	b. c.	
R chmond Park	*	*								
Kew. (See front page.)				VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total. 140 Joules		Average Rate. 4.2 Milli-watts.		Max. Rate. 10 Milli-watts.		
S. Kensington (Roof of M.O.)	90	85	0.0							

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL. mm. & .	TEMPERATURE.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	Sun- shine for Yester- day. Hr.
		In Screen.	Night Min. on Grass.					
		° F.	° F.					
		° F.	° F.					
Dublin to 4 p.m.								
Darwen to 9 p.m.	17	47	38	40	or	or	or	1.1
Manchester "								
Birmingham "	4	48	36	41	or	r	o. c	0.6
Oxford to 8 p.m.								
Teignmouth to 9 "	5	53	42	45	h. or	or	o. c	0.4
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	9	52	48	39	b. c. o	o. or	or. o	*

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON  
AND SUNSET FOR STATIONS IN THE UNITED KINGDOM  
TO-DAY AND TO-MORROW.

Date.	Sunrise.			Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.		
10th Nov. 1915.	7.6	11.37	4.8	11.37	4.8
Yarmouth ...	7.8	11.37	4.6	11.37	4.6
Greenwich ...	7.11	11.44	4.7	11.44	4.7
Wick ...	7.51	11.56	4.1	11.56	4.1
Valencia ...	7.53	12.25	4.57	12.25	4.57

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 50° in the north and west, but was from 50° to 55° elsewhere. Rain was general, and in places heavy, to 38 mm. at Nairn. As a rule there was little or no sunshine. Gales to strong gales from various directions were felt in many localities.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 24 hours.	Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Force 0-12.	Dir.						Force 0-12.	Dir.					Max.	Min.	Morning.	Afternoon.	Night.	
Lerwick ...	986.3	40	NNE	8	org	986.6	+2	38	-3	N	7	N	bc	6	23	44	36	org	org	org	Hours.
Deerness ...	986.8	41	N	8	org	986.8	+	40	0	N	7	N	bcsp	6	10	43	36	org	org	org	0.0
Stornoway ...	997.1	38	N	7	bcsp	997.2	0	36	-6	N	6	-	bcsp	5	5	42	32	org	bcsp	bcsp	2.7
Castletown (Barra Is.)	998.3	44	N	5	ohp	1000.6	0	37	-8	N	2	-	b	2	3	46	36	op.c op	op.c op	op.c	1.4
Glasgow ...	992.5	41	NW	3	b	999.2	+2	34	-6	WNW	2	-	b	+	-	45	32	c.b	c.b	b	1.5
Eskdalemuir ...	990.5	40	NNW	6	b	998.7	+2	31	-7	WNW	4	-	b	+	-	43	30	b.c	c.b	b	4.3
Malin Head ...	997.8	44	NNW	9	org	1000.9	+1	42	-3	N	4	NW	bc	5	6	46	39	org	org	org	3.0
Blacksod Point ...	1005.4	42	NNW	8	org	1001.4	-3	39	-4	NE	2	-	omr	5	7	46	38	org	org	org	+
Valencia ...	1008.7	45	NNW	5	bc	1001.2	-6	43	-3	ENE	3	S	o	3	3	49	40	bc	bc	bc	5.4
Roche's Point ...	1007.1	44	WNW	4	b	1004.7	+	41	-3	E	1	-	o	2	0.2	48	39	bc	bc	b	+
Birr Castle ...	1003.9	41	W	2	c	1003.0	+	34	-5	W	1	-	m	+	2	46	33	cp	cp	f	4.2
Donaghadee ...	995.8	43	NW	6	org	1000.8	+1	36	-9	W	3	W	bc	3	4	46	36	bc	bc	bc	+
Liverpool (Bidston) ...	993.2	47	WNW	7	bc	1000.2	+2	41	-5	W	5	W	org	4	2	48	39	org	org	org	0.4
Holyhead ...	996.4	47	NW	9	org	1001.6	0	45	-2	NW	5	NW	c	5	-	49	45	c.o. org	c.o. org	c.o. org	2.3
Pembroke (St. Ann's) ...	1001.6	47	NW	7	bc	1004.7	0	46	0	WNW	3	NW	c	4	-	48	45	bc	bc	bc	5.4
Scilly (St. Mary's) ...	1006.3	47	NW	7	c	1007.0	-1	48	0	W	3	NW	bc	5	0.2	50	43	bc	bc	bc	7.9
Falmouth ...	1006.0	45	WNW	7	b	1006.6	-2	41	-4	W	3	-	bc	3	2	49	40	bc	bc	b	6.3
Jersey (St. Aubin) ...	1001.8	48	WNW	5	bc	1007.6	+	47	-1	W	3	-	o	3	2	50	45	org	org	org	5.2
Portland Bill ...	998.9	48	WNW	6	bc	1004.7	+3	46	-2	WNW	5	NW	bc	4	-	50	45	bc	bc	bc	+
Dungeness ...	995.0	45	SW	5	b	1002.7	+4	39	-3	WSW	4	-	b	4	-	51	39	org	org	b	+
Dover ...	995.7	43	SW	4	b	1003.2	+5	39	+1	W	4	-	b	3	-	49	38	bc	c.b	b	4.6
Wick ...	988.0	42	NNE	8	o	992.1	+2	37	-4	N	5	-	bc	5	9	42	35	org	org	bc	+
Nairn ...	991.9	40	N	5	org	995.9	+	35	-4	N	5	-	bc	5	5	42	34	org	org	org	0.0
Aberdeen ...	984.6	40	NW	7	r	992.3	+3	37	-2	WNW	6	-	r	4	18	42	35	c.org	org	org	0.3
Leith ...	989.8	44	N	5	c	997.8	+1	34	-10	SW	1	-	b	+	-	46	33	c.org	c.org	b	+
Tynemouth ...	985.8	44	N	5	org	995.7	+4	33	-9	W	3	-	bc	4	-	45	33	org	org	bc	+
Spurn Head ...	986.0	47	NW	6	org	997.1	+1	45	0	NW	8	-	bc	7	-	48	39	org	org	bc	4.3
Yarmouth ...	988.8	44	NW	4	bc	998.4	+6	37	-1	NW	3	-	bc	3	-	48	37	bc	bc	bc	2.9
Clacton-on-Sea ...	992.5	45	W	4	c	1001.3	+2	38	-1	W	3	-	bc	3	-	49	37	c.b.c	c.b.c	c.b.c	3.4
Nottingham ...	990.9	44	WNW	4	c	1000.3	+	38	-3	W	3	W	bc	+	5	46	35	org	org	c.b	2.1
Bath ...	997.7	44	W	3	b	1003.9	+	36	-8	W	1	W	bc	+	0.2	51	35	bc	bc	b	6.3
St. Farnborough ...	996.2	42	W	4	b	1003.6	+3	36	-2	WSW	3	NW	bc	+	-	49	36	b	b	b	7.4
London (Kew Obs.) ...	995.5	44	W	3	b	1003.6	+2	37	-3	SW	2	NW	bc	+	Trace	49	36	c.b.c	bc	bc	6.3
Spitsbergen ...	1011.3	-8	S	2	c	1021.0	0	-6	+7	-	0	+	bc	+	+	-6	-15	GALES.  Duration and Extreme Force in British Islands.  <u>Lerwick</u> 10th 7 a.m. - 11th 1 a.m. NNE 8 Ex. NNE 9 at 1 p.m. 10th.  <u>Deerness</u> 10th 11 a.m. - 1 p.m. N 8 10th 3 p.m. - 6 p.m. N 8  <u>Eskdalemuir</u> 10th 2 p.m. - 3 p.m. NW 8  <u>Malin Head</u> 10th 7 a.m. - 8 p.m. NW 9  <u>Blacksod Point</u> 10th 7 a.m. - 8 p.m. NNW 8  <u>Holyhead</u> 10th 1 p.m. - 9 p.m. NW 8 Ex. NW 9 at 1 p.m. 10th.  <u>Scilly</u> 10th during day Squalls NW 8  <u>Wick</u> 10th 7 a.m. - 6 p.m. NNE 8  <u>Nairn</u> 10th Noon - 3 p.m. N 8 10th 11 p.m. - 11th 10 a.m. NNW 8 Ex. NNW 9 at 10 p.m. 10th.  <u>Aberdeen</u> 10th during day Gusts NW 25 miles per hour  <u>Spurn Head</u> 10th 7 a.m. - 11th 1 a.m. NW 8 Ex. NW 23 m.p.h. at 2 p.m. 10th.  <u>Nottingham</u> 10th Noon NW 8.			
Vardö ...	1011.7	19	N	4	S	1014.3	+3	16	-7	WNW	2	-	bc	2	+	23	19				
Bodö ...	1011.7	19	N	4	S	1014.3	+3	16	-7	WNW	2	-	bc	2	+	23	19				
Christiansund ...	1011.7	19	N	4	S	1014.3	+3	16	-7	WNW	2	-	bc	2	+	23	19				
Skudenes ...	1011.7	19	N	4	S	1014.3	+3	16	-7	WNW	2	-	bc	2	+	23	19				
Færder (X'ianiafjord) ...	1011.7	19	N	4	S	1014.3	+3	16	-7	WNW	2	-	bc	2	+	23	19				
The Scaw (Skagen) ...	984.8	45	S	6	o	982.4	-1	45	0	S	6	S	m	6	3	48	45				
Blaavands Huk ...	982.1	43	SSW	6	o	981.3	0	45	-1	WSW	5	-	r	5	4	46	41				
Haparanda ...	1013.7	14	E	2	o	1005.9	-7	16	+20	E	6	-	s	+	1	16	-4				
Hernösand ...	1003.9	27	NE	4	S	992.2	0	29	+18	E	4	-	r	+	14	39	21				
Stockholm ...	998.1	41	ESE	4	o	991.8	-2	43	+11	SSE	2	-	r	+	5	43	32				
Wisby ...	995.3	45	SE	4	o	992.4	-3	45	+6	S	2	-	r	1	4	45	37				
Karlstad ...	988.8	39	-	0	r	988.8	-1	39	+9	SE	2	-	o	+	15	41	27				
Petrograd (O.M.S.) ...	1011.3	-8	S	2	c	1021.0	0	-6	+7	-	0	+	bc	+	+	-6	-15				
The Helder ...	986.7	48	SW	7	c	994.0	+3	45	-1	W	8	-	c	8	8	48	41				
C. Gris Nez ...	1003.3	46	W	7	b	1003.4	+3	43	-2	WNW	7	+	b	6	-	54	43				
La Hève ...	999.9	45	WNW	4	m	1006.1	+	46	+2	WNW	8	+	o	7	10	52	44				
Ushant ...	999.9	45	WNW	4	m	1006.1	+	46	+2	WNW	8	+	o	7	10	52	44				
Brest (St. Mathieu) ...	1009.6	50	NW	6	c	1009.0	-1	50	0	WNW	4	+	c	4	-	54	48				
Rochefort (Île d'Aix) ...	1008.7	51	NW	7	o	1012.1	0	49	-1	W	3	+	o	+	9	57	46				
Biarritz ...	1012.3	55	WSW	5	r	1015.5	+1	52	-2	WSW	4	+	r	5	21	55	48				
Paris ...	1001.7	41	SW	2	o	1006.0	+3	39	-2	SW	2	-	b	+	5	48	39				
Belfort ...	1004.0	40	WSW	6	a	1010.9	+	37	-2	WSW	7	+	o	+	4	43	34				
Lyons ...	1007.4	45	-	0	o	1014.6	+	40	-3	-	0	+	bc	+	-	53	40				
Nice ...	1001.7	49	W	5	b	1006.7	+3	48	-1	W	6	+	b	6	-	57	45				
Perpignan ...	1010.3	52	NW	4	b	1016.6	+5	46	-4	N	2	NW	c	+	Trace	59	46				
Sanguinaire ...	1010.3	52	NW	4	b	1016.6	+5	46	-4	N	2	NW	c	+	Trace	59	46				
Corunna (7 a.m.) ...	1013.4	55	NNW	4	o	1017.2	-3	50	-4	SSW	4	SW	bc	5	1	57	48				
Madrid (8 a.m.) ...	1014.6	52	-	0	b	1022.4	+3	40	-5	NE	1	W	b	+	-	57	36				
Lisbon (9 a.m.) ...	1020.0	55	NNW	3	b	1021.0	0	52	-5	-	0	-	b	5	-	59	52				
Gibraltar ...	1019.6	61	W	4	o	1020.3	+	60	+3	W	6	+	o	4	-	64	55				
Rome ...	1019.6	61	W	4	o	1020.3	+	60	+3	W	6	+	o	4	-	64	55				
Malta (8 a.m.) ...	1012.6	+	+	+	+	1012.6	+3	66	-4	NW	4	NW	bc	2	-	75	64				
Azores (Horta, 8 a.m.) ...	1017.6	+	SSW	7	o	1012.0	0	66	+1	WSW	7	+	o	4	16	70	64				
Madeira (Funchal) ...	1022.9	64	N	2	c	1023.8	0	61	+4	N	2	-	o	2	-	68	57				
South Farnborough																					
Pilot																					

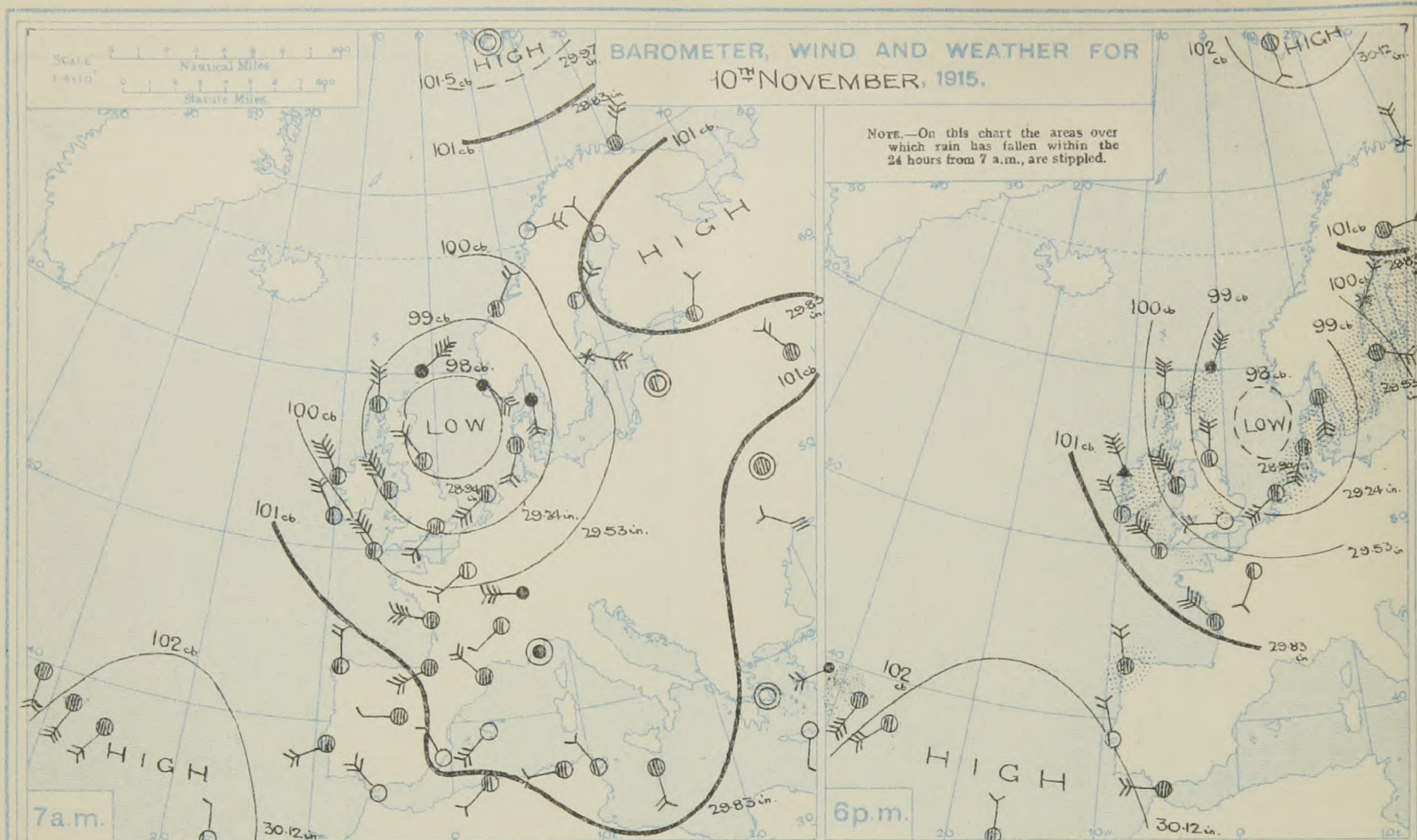
South Farnborough

Pilot Balloon Ascent at about 7 a.m.

2000 metres. WNW 32 miles per hour.

500 " W by N 30 " " " "





FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Coast.	South Coast.
North Coast.	North Coast.

Cones hoisted at 11 a.m.

Western Channel and Bay 11

FURTHER OUTLOOK.

R. G. K. LEMPFFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director

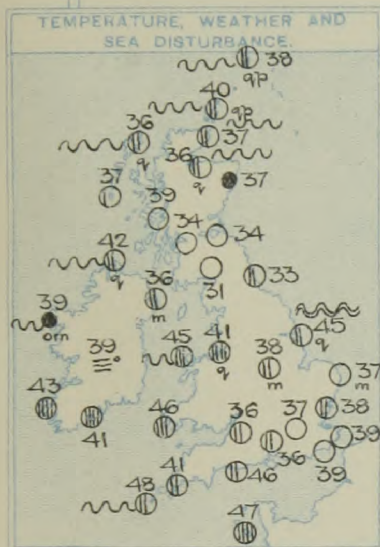
- 0 } The North-Westerly to Northerly wind decreasing and backing again later and freshening; fine at first, then less settled; some rain and mist; temperature rising.
- 1 }
- 2 }
- 3 } Moderate to light Westerly breezes and fine weather, then backing Southerly and freshening, less settled, some rain and mist; temperature rising.
- 4 }
- 5 }
- 6 } Same as Nos. 0 to 2.
- 7 }
- 8 } Freshening Southerly winds, strong to gale at times; unsettled, some rain, mist or fog; temperature rising.
- 9 } Freshening Easterly to Southerly winds, strong to gale at times; unsettled, some rain, mist or fog; temperature rising.
- 10 } Freshening South-Westerly winds, strong to gale at times; rough sea and swell; fair to dull, some rain, mist, or fog; milder.



# SYNOPTIC CHART FOR 7 a.m., THURSDAY, 11<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

Less settled conditions  
spreading in from Atlantic.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**WIND.**—Direction is shown by arrows flying with the wind.  
Force, on the scale 0-12, is indicated by the number of feathers. Calm.

**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

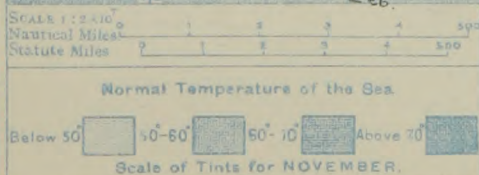
**WEATHER.**—Shown by the following symbols:—  
 clear sky. sky  $\frac{1}{2}$  clouded. sky  $\frac{3}{4}$  clouded. overcast sky. rain falling.  
 snow. hail. fog. mist. thunder.  
 thunderstorm.

**SEA DISTURBANCE.**—Rough . High .

Inches  
31

30

29





## DAILY WEATHER REPORT.

Thursday, 11<sup>th</sup> November, 1915.REPORTS  
FOR  
YESTERDAY.10<sup>th</sup> November

## EVENING OBSERVATIONS.

Petragrad

Malta

## OBSERVATIONS AT 7 A.M., G.M.T.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.	mm. §	° F.	° F.			Hr.	Tunbridge Wells ...	mm. §	° F.	° F.			Hr.
Banff ...	14	43	39	bc	bc	3.8	Margate ...	2	48	36	b	c	3.0
Carnoustie ...	11	45	40	pq	hpq	0.0	Ramsgate ...	3	49	34	c-bc	bc	4.1
St. Andrews ...	-	46	40	*	*	2.2	Hastings ...	2	50	34	or bc-b	b	6.2
England, N.E.							Bexhill-on-Sea ...	3	50	39	b-c-b	b-bc	6.3
Harrogate ...	2	47	36	c-bc-b	b-bc-b	5.6	Eastbourne ...	-	50	38	b	b	6.8
Skegness ...	2	49	36	c-b	b-p-b	5.0	Seaford ...	0.2	50	38	bc-b-bc	bc-b	6.9
England, N.W.							Brighton ...	-	50	35	b	b	7.0
Morecambe ...	-	47	41	bc	bc	5.5	Worthing ...	1	53	?	b	b	7.3
Blackpool ...	2	50	42	cq/b-c	c-ob	1.6	Littlehampton ...	-	50	37	b	b	7.0
Southport ...	6	48	41	cq/hrc	chop-b	2.4	Bognor ...	-	50	39	b	b	7.7
Midlands.							Bournemouth ...	-	50	35	b	b	8.0
Buxton ...	13	42	34	or	or	0.4	Weymouth ...	-	50	40	bc-b	bc	7.5
Leamington Spa ...	2	48	35	c-bcp	c-bcp	5.5	Torquay ...	1	49	40	p-bcp	p-bc-c	6.1
Malvern ...	-	47	37	b-bc	bc-b	6.2	Paignton ...	2	50	39	bcp	bcp	6.4
Ross-on-Wye ...	1	48	31	bcq	bc-bq	6.8	Falmouth ...	7	49	41	bcqph	ph-bcq	6.3
Wales.							Penzance ...	4	51	43	p-bc-c	bc	5.7
Rhyl ...	4	48	41	q	q-c	0.4	Newquay ...	-	50	42	c-bc	bc-c	4.2
Colwyn Bay ...	-	47	42	bc	bc	0.0	Ilfracombe ...	2	50	42	b-bc-b	b	7.1
Llandudno ...	-	49	45	ro-c	c-o	1.5	Weston-super-Mare ...	-	49	42			
Aberystwyth ...	1	48	40	b	bc-o	6.5							
Tenby ...	-	48	37	bc-b	b-bc-b	3.0							
England, E.													
Cromer ...	4	47	35	o-c	cp-c	2.7							
Lowestoft ...	1	49	37	bcp	bc	3.6							
Felixstowe ...	1	48	36	c-bc	bc	3.7							
Walton-on-Naze ...	-	48	37	bc-b	b-bc-b	3.0							
Southend-on-Sea ...	-	48	37	bc-b	b-bc-b	3.0							

## LONDON OBSERVATIONS.

## Additional Observations for Yesterday.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.	
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.			In Screen.	Night Min. on Grass.	Night.	Fore- noon.	After- noon.			
				Max.	Min.													Max.		Min.
24 HOURS ENDED 9 A.M. TO-DAY.																				
Greenwich (Royal Obs.) ...	% 64	% 86	Hr. 3.4	° F. 50	° F. 37	° F. 31	mm. § ~	bc	bc	bc	Dublin to 4 p.m.	mm. §	° F. 44	° F. 33	° F. 33	or. c	cuprh	bcch	Hr. 1.0	
City (Bunhill Row) ...	%	%	3.0	%	%	%	%	%	%	%	Darwen to 9 p.m.	4	44	33	%	%	%	%	%	
Westminster (St. James's Pk.)	65	87	4.7	51	36	31	~	bc	bc. b	bm	Manchester "	3	46	34	29	r	q	q	1.7	
Camden Sq. (Brit. Rainfall)	66	88	4.3	50	36	31	Trace	b	bc. b	%	Oxford to 8 p.m.	%	%	%	%	%	%	%	%	
Hampstead (Reservoir) ...	%	91	5.4	48	24	23	-	bc	bc	bc	Teignmouth to 9 "	3	50	41	36	bcp	qp	bcp	6.1	
Richmond Park	%	%									Plymouth "	Trace	50	37	29	o. c. b.	b. bc	bc. b	%	
Kew. (See front page.)				VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YEASTDAY.																
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.		Average Rate.		Max. Rate.												
S. Kensington (Roof of M.O.)	60	84	5.3	465 Joules		14.1 Milliwatts.		33 Milliwatts.												

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

DATE.	Sunrise.	Noon.	Sunset.
11 <sup>th</sup> Nov. 1915.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.9	11.37	4.16
Greenwich ...	7.10	11.37	4.14
Wick ...	7.13	11.44	4.16
Valencia ...	7.25	11.54	4.29

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 50° in most places. Rain, hail or sleet fell in several regions, 23 mm. at Lerwick. A thunderstorm occurred at Jersey. There were many good sunshine records. 8 hours at Bournemouth and Scilly.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies id. at M.O. and at the bookstalls at certain Railway Termini in London.



## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 316.

Friday,

12th November, 1915.

	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 24 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
				Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick ...	991.5	38	NNW	4	bc	989.5	-1	36	-2	NNW	4	N	bc	4	3	40	34	bc, sp	bc, sp	bc, sp	Hours.
	Deerness ...	993.9	38	NW	6	bc, sp	990.5	+	36	-4	NNE	6	-	cp	4	1	41	35	bc, sp	bc, sp	bc, sp	2.0
	Stornoway ...	997.3	35	N	3	bc, sp	992.5	-1	37	+1	N	5	-	bc	5	2	40	33	bc, sp	bc, sp	bc, sp	4.1
	Castlebay (Barra Isd.)	995.8	41	NE	4	bc	989.6	-2	40	+3	NE	5	-	o	5	~	44	36	b, o	ob, h, bc	bc, o	6.5
	Glasgow ...	996.3	35	NE	2	b	986.9	-4	35	+1	ENE	4	-	o	~	~	41	31	b	b, bc, cz	bz, oz	6.0
	Eskdalemuir ...	996.3	28	NW	1	b	986.3	-3	34	+3	NE	4	-	as	~	0.1	40	27	bc, b, bc	bc, b	bc, o	6.2
	Malin Head ...	992.9	42	NE	4	cp, p	983.0	-3	40	-2	E	8	E	cp	7	~	45	40	cz	c	cz	0.0
	Blacksod Point ...	987.4	37	ESE	6	ond	977.3	-5	36	-3	E	9	E	ond	7	5	41	35	oz	ond	ond	~
	Valencia ...	979.4	47	E	6	r	965.4	-9	54	+11	S	3	-	or	~	44	55	ond	ond	ond	0.0	
	Roche's Point ...	982.8	46	ESE	6	r	968.8	~	53	+12	SE	3	-	fd.	5	31	53	40	or	r	ro, fd	~
	Birr Castle ...	988.1	37	NE	2	r	973.2	~	40	+6	NE	3	-	r	~	23	41	34	or	or	or	0.0
	Donaghadee ...	994.0	42	ESE	4	og, m	981.9	-4	43	+7	ESR	8	-	ond	6	1	43	35	cm.	og, m	og, m	~
	Liverpool (Bidston) ...	994.4	45	SE	2	r	980.2	-4	37	-4	E	4	-	or	3	11	46	36	bc	or	or	2.3
	Holyhead ...	992.2	42	E	4	ond	975.6	-6	40	-5	E	7	-	ond	8	8	47	39	c, o, sp	op, ond	or, p, or	0.1
	Pembroke (St. Ann's) ...	985.3	44	SE	7	ond	973.1	-5	54	+8	SW	3	-	ond	4	21	54	42	or	or	ond	0.0
	Scilly (St. Mary's) ...	983.6	55	SW	6	ond	973.5	-11	55	+7	SW	5	-	ond	6	14	55	46	c, or	ond	ond	0.0
	Falmouth ...	984.5	54	SSW	6	r	975.0	-10	55	+14	SW	6	-	r	5	27	55	41	or	or	or	0.0
	Jersey (St. Aubin) ...	997.0	49	S	5	og, r	981.9	~	56	+9	S	4	-	or	4	18	57	46	og	og	og, d, or	0.0
	Portland Bill ...	991.3	49	SE	6	r	979.3	-4	55	+9	SW	5	SW	or	5	13	55	45	bc, c	c, or	or	~
	Dungeness ...	1000.2	47	SW	3	op	981.8	0	55	+16	SW	5	-	r	5	22	55	39	bc	bc	c, or	~
Dover ...	1000.0	46	SSW	3	c	981.1	-1	54	+15	SSW	5	S	r	6	14	55	41	b, bc	bc, c	c, or	6.2	
Wick ...	994.5	38	N	5	bc	971.2	0	39	+2	N	4	-	bc	4	~	42	23	bc	bc	bc	~	
Nairn ...	996.2	34	NNW	1	bc	990.8	~	36	0	N	4	-	cu	3	0.4	39	28	p, bc	bc	bc, p	1.5	
Aberdeen ...	994.6	35	WNW	3	b	989.7	-1	33	-4	NW	3	-	c	2	1	40	32	cr, sp	bc, b	b, bc, sp	5.5	
Leith ...	996.5	41	NW	1	b	988.4	-5	40	+6	NE	4	-	o	~	~	42	33	o	bc	b	~	
Tynemouth ...	996.1	36	NW	2	bm	986.0	-5	43	+10	ENE	3	-	og	5	1	43	33	bc	bm	og, p	~	
Spurn Head ...	997.3	42	WNW	3	o	983.3	-4	44	-1	ESE	6	-	cp	6	2	47	38	bc	ond, or	ond	4.4	
Yarmouth ...	998.8	41	WSW	2	o	981.3	-5	46	+9	ESE	6	-	or	6	7	47	36	bm	bm, o	bm, or	6.7	
Clacton-on-Sea ...	999.4	45	W	1	o	980.5	0	47	+7	N	1	-	r	1	13	48	37	bc	bc, c, og	og, r	4.3	
Nottingham ...	996.0	41	S	1	r	981.0	~	41	+3	E	4	E	r	~	10	45	36	bm	bc	or	2.8	
Bath ...	993.9	43	E	1	r	978.0	~	43	+7	NE	3	SW	r	~	19	46	34	bz, c, og	or	or	0.0	
St. Farnborough ...	997.1	41	SE	1	r	979.0	-3	54	+18	SW	4	SW	o	~	15	54	35	bc, or	g, m	r, o	3.6	
London (Kew Obsy.) ...	997.7	43	S	1	r	979.9	-2	45	+8	ENE	1	-	fe	~	17	47	37	om, o, m	om, ond, or	ond, fe	2.7	
NORTHERN EUROPE.	Spitsbergen ...																	GALES.				
	Vardö ...	1009.1	23	SE	5	S	997.1	-3	28	+12	SE	7	-	S	4	~	28	14	Duration and Extreme Force in British Islands.			
	Bodö ...	990.7	25	E	5	c	986.5	-1	27	+4	E	4	-	c	2	~	27	23				
	Christiansund ...	980.1	39	-	0	c	980.7	0	37	-2	-	0	-	c	2	~	41	36				
	Skudesnaes ...	981.7	41	N	1	c	982.7	0	37	-2	NW	3	-	c	3	2	41	37				
	Færder (Kianiafjord) ...	978.1	43	S	2	o	981.0	0	39	-4	WSW	4	-	b	3	15	43	37				
	The Scaw (Skagen) ...	981.3	43	NW	6	o	984.4	0	39	-6	SW	4	SW	bc	4	3	46	37				
	Blaavands Huk ...	988.7	43	W	6	c	989.1	-2	39	-6	W	1	-	c	3	1	45	37				
	Haparanda ...	996.8	19	E	2	S	988.2	-2	30	+14	S	2	-	S	~	~	30	16				
	Hernösand ...	988.2	36	-	0	r	984.6	-3	39	0	E	2	-	f	~	13	39	34				
Stockholm ...	990.0	41	SE	2	o	986.7	-2	39	-4	S	2	-	o	~	2	43	39					
Wisby ...	991.5	43	S	2	o	989.9	+2	41	-4	SW	4	-	bc	4	1	45	37					
Karlstad ...	984.2	39	SE	2	o	982.4	0	39	0	S	4	-	o	~	3	41	36					
Petrograd (G.M.T.) ...																						
FRANCE, &C.	The Helder ...	998.9	45	WSW	5	c	983.0	-8	43	-2	E	3	-	o	2	6	46	39				
	C. Gris Nez ...	1000.0	46	W	3	r	982.1	-3	54	+11	SW	6	~	r	6	22	54	43				
	La Hève ...	995.0	43	S	5	m	985.7	~	45	-1	SSW	6	~	o	6	13	50	41				
	Ushant ...																					
	Brest (St. Mathieu) ...	991.7	55	SW	7	r	982.6	-7	53	+3	SW	7	~	r	8	17	54	52				
	Rochefort (Ile d'Aix) ...	1006.0	53	SW	6	r	996.4	-4	57	+8	SW	7	~	o	~	27	57	48				
	Biarritz ...	1009.6	56	SW	3	o	1002.0	-3	60	+8	SSW	4	~	c	3	4	59	57				
	Paris ...	1005.1	46	S	3	o	990.4	-2	54	+15	SSW	5	-	o	~	10	54	39				
	Belfort ...	1012.7	39	WSW	6	o	999.8	~	44	+7	WSW	6	~	r	~	10	43	35				
	Lyons ...																					
Nice ...	1010.9	35	E	4	b	1010.7	+1	46	-2	E	3	~	c	3	1	61	43					
Perpignan ...	1014.9	48	E	1	b	1008.6	-1	45	-1	-	0	W	bc	~	~	57	43					
Sanguinaire ...	~	56	NW	6	m	~	~	55	~	E	3	~	m	5	~	59	52					
SOUTHERN EUROPE.	Corunna (7 a.m.) ...	1011.0	55	SSW	6	r	1002.0	+1	61	+11	SW	6	-	o	6	4	63	54				
	Madrid (8 a.m.) ...	1018.6	52	WSW	1	bc	1016.4	0	46	+6	ESE	2	-	o	~	~	52	45				
	Lisbon (9 a.m.) ...	1020.0	59	SSW	2	o	1018.9	-1	59	+7	SW	5	-	r	5	2	61	57				
	Gibraltar ...	1021.3	57	NW	4	b	1020.6	~	59	-1	NW	4	~	c	2	~	64	54				
	Rome ...																					
	Malta (8 a.m.) ...	~	~	~	~	~	1020.6	+1	61	-5	WNW	3	-	b	2	~	70	59				
Azores (Horta, 8 a.m.) ...	1012.6	~	SW	5	m	1013.1	+1	65	-1	W	4	~	o	3	~	70	64					
Madeira (Funchal) ...	1023.1	64	N	2	c	1023.1	0	59	-2	N	2	-	b	2	~	66	59					

South Farnborough

Pilot Balloon Ascent at about 7 a.m.

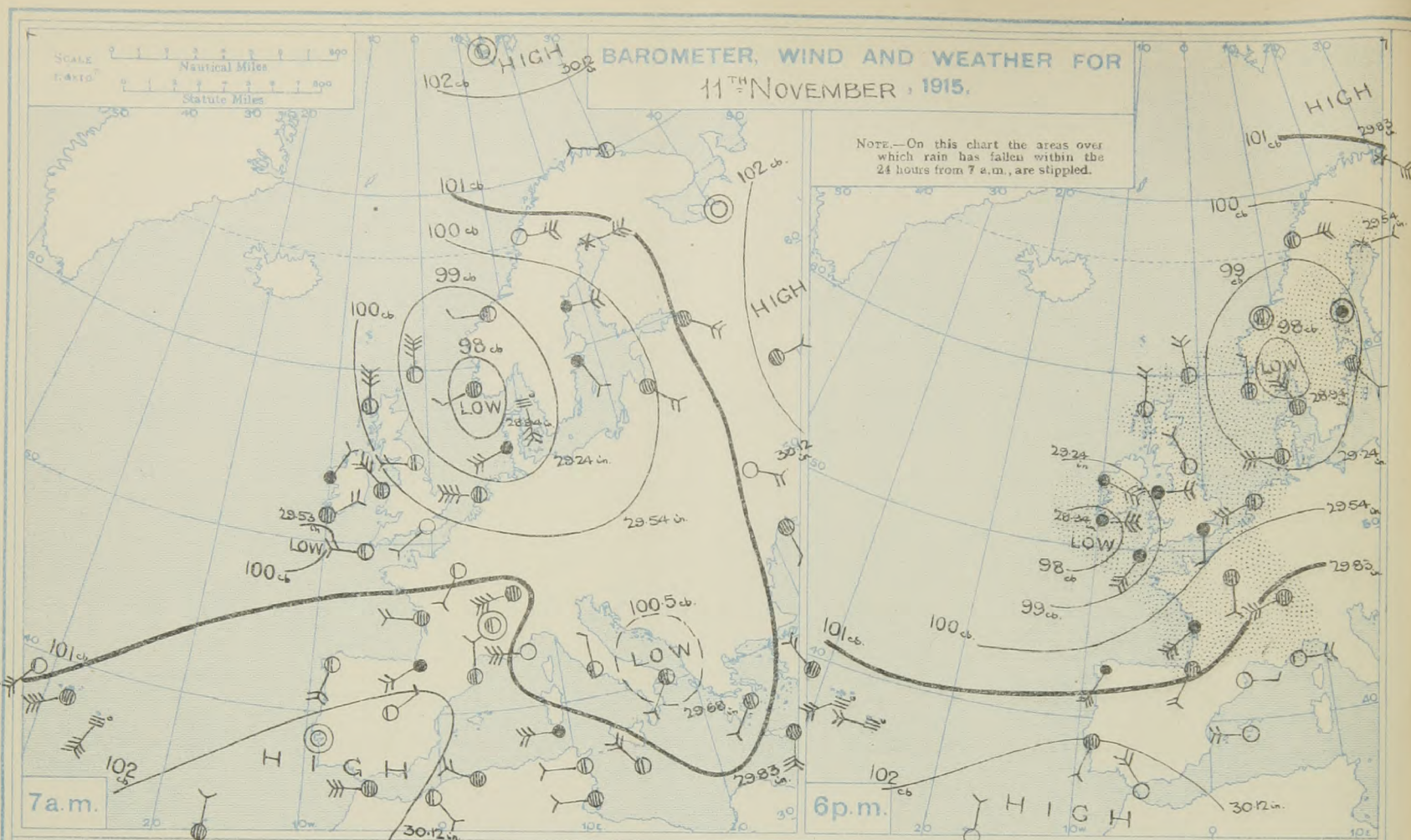
400 metres SW by W 30 miles per hour.

\* Information for these columns not usually received.

† Received too late for insertion in Charts.

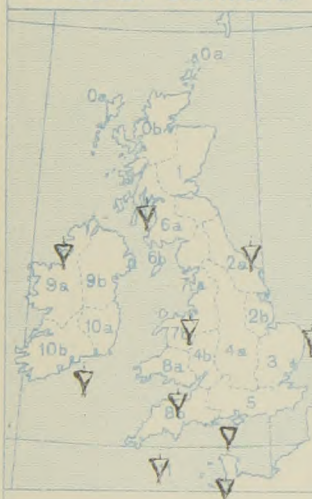
‡ The barometric change is expressed in half-millibars.





**FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.

South Cone.

North Cone.

Signals hoisted this morning.

South Cone.

North Cone.

Western Channel and Bay 11

0 {  
a } Northerly to Easterly winds, fresh or strong at  
b } times; fair to dull, some rain and snow; cold.

1 {  
a } South-Easterly to Easterly winds, strong to gale  
b } at times; dull, rainy, some mist or fog; temperature  
2 { moderate to rather cold.  
3 {  
4 {  
a } South-Westerly wind, strong to gale at times; dull  
b } rainy, some mist or fog; mild.

5 {  
a } Same as Nos. 2 to 4.  
b }

6 {  
a } Same as No. 5.  
b }

7 {  
a } Same as Nos. 2 to 4.  
b }

8 {  
a } Wind variable in direction and force; dull, rainy,  
b } some mist or fog; mild.

9 {  
a } South-Westerly wind, strong to gale; high sea and  
b } swell; dull, rainy, some mist or fog; mild.

10 {  
a }  
b }

**FURTHER OUTLOOK.**

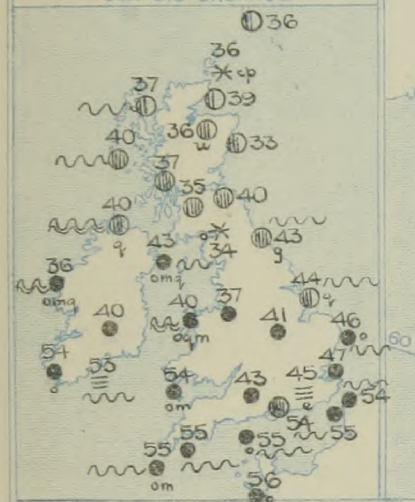


# SYNOPTIC CHART FOR 7 a.m., FRIDAY, 12<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

Conditions remaining  
very unsettled.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



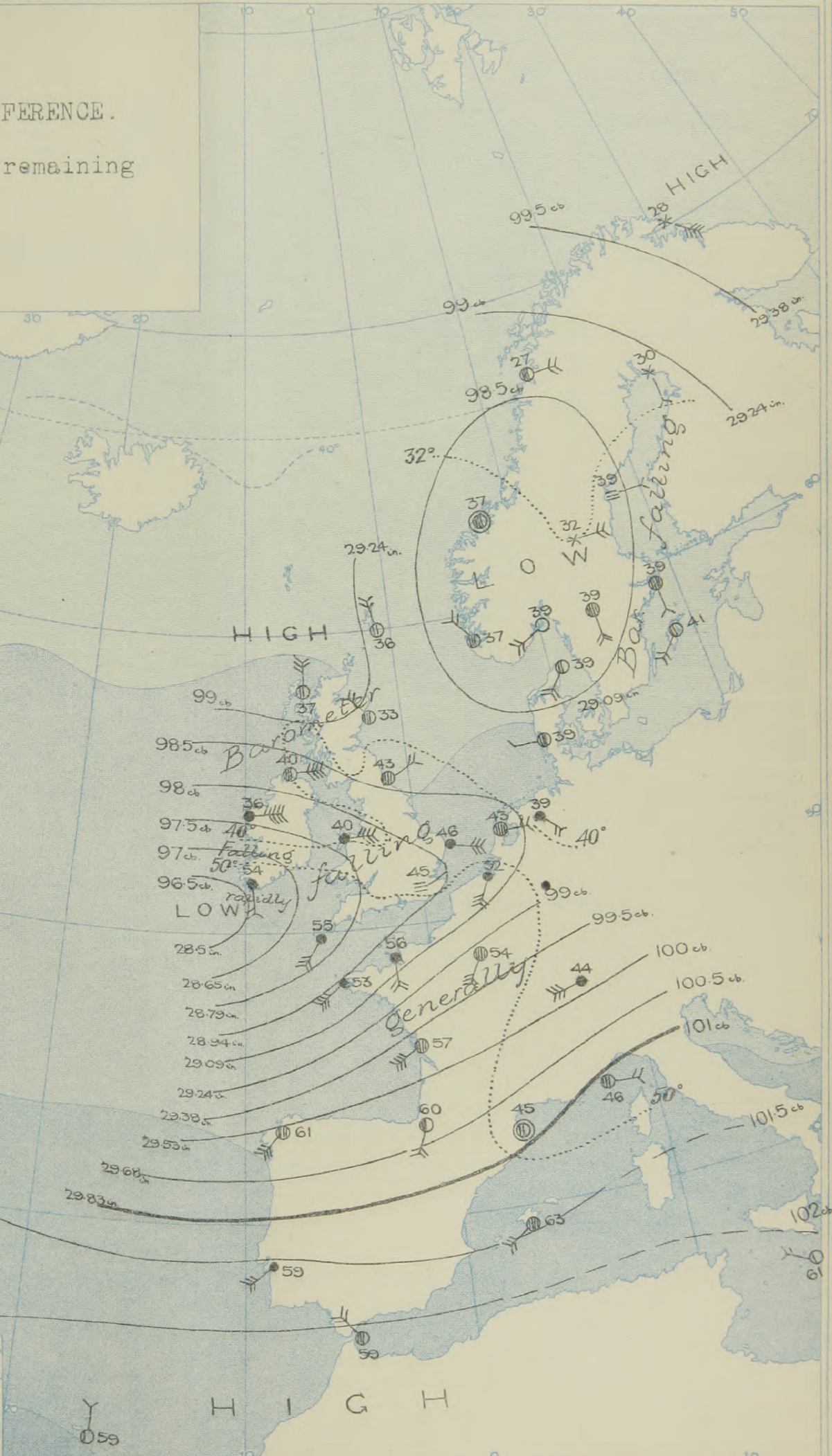
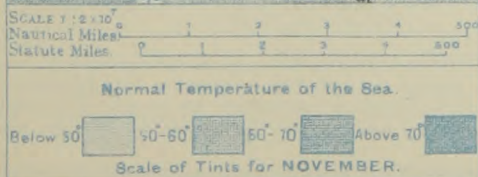
### EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of . five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm   
**TEMPERATURE.**—Given in degrees Fahrenheit.   
 Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 clear sky. sky 1/4 clouded. sky 1/2 clouded. overcast sky. rain falling.  
 \* snow. hail. fog. mist. thunder.  
**SEA DISTURBANCE.**—Rough High

Inches.  
31

30

29





## DAILY WEATHER REPORT.

Friday, 12th November, 1915.

REPORTS  
FOR  
YESTERDAY.

11th November.

STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain-fall. Milli-metres.		TEMP. Max. Min.	
	BAROM. Milli-bars at M.S.L.	TEMP.	WIND.		Weather.	Barometer. Milli-bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	WIND.		Direct. of Upper Cloud.	Weather.	Sea 0-9.					
			Dir.	Force 0-12.						Dir.	Force 0-12.								
		° F.						° F.	° F.										
Bodo	1003.4	23	E	4	b	1009.1	-5	23	+2	E	5	-	b	2	-	25	21		
Christiansund	985.3	39	E	4	c	982.4	+2	39	+2	W	1	-	c	3	-	39	37		
Skudenes	978.6	43	NNE	5	c	978.1	0	39	-2	W	1	-	c	4	-	41	36		
Faerder	985.0	37	SSE	1	o	983.4	0	43	+6	SE	6	-	r	4	34	43	37		
Petrograd	1016.7	12	SE	3	b	1011.7	-4	16	+6	SE	4	-	o	4	-	18	10		
Rome	1004.7	59	SW	1	o	1006.4	+1	52	-	N	1	-	bc	*	1	64	52		

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.		
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.			
	mm. & .	° F.	° F.			Hr.		mm. & .	° F.	° F.			Hr.		
Scotland.	{ Oban ... ..	1	48	36	b	b	4.8	{ Tunbridge Wells ... ..	-	49	38	c	b.c.c	3.5	
	{ Banff ... ..	1	44	37	bc	bc	2.2		{ Margate ... ..	-	49	35	bc	c.o	3.6
	{ Carnoustie ... ..				*	*			{ Ramsgate ... ..	-	48	36	b.c	c.o	4.1
	{ St. Andrews ... ..								{ Bexhill-on-Sea ... ..						
Eng. N.E.	{ Harrogate ... ..	6	42	32	b	b.c	6.8	England, S.E.	{ Eastbourne ... ..	-	50	39	b.	b.o	4.0
	{ Skegness ... ..	-	46	33	bc.b	bc.o	5.8		{ Seaford ... ..	0.1	54	40	bc	bc.r	3.3
Eng. N.W.	{ Morecambe ... ..	-	42	29	bc.b	b.c.o	4.4		{ Brighton ... ..	0.1	49	38	c.o	bc	2.9
	{ Blackpool ... ..	6	46	38	b	bc.o	3.3		{ Worthing ... ..	1	50	35	b.c	bc.c	3.2
	{ Southport ... ..	1	46	40	c.o.b	c.o	2.9		{ Littlehampton ... ..	1	52	34	bc	o	2.1
									{ Bognor ... ..	1	49	38	o	bc	2.2
Midlands.	{ Buxton ... ..	0.3	42	34	bc	bc	1.5		{ Southsea ... ..	3	49	40	bc.o	bc	2.2
	{ Leamington Spa ... ..	2	47	34	bc	bc.c	3.9		{ Bournemouth ... ..	5	48	37	c.o	bc	0.3
	{ Malvern ... ..	1	45	38	bc	c.o	0.5								
	{ Ross-on-Wye ... ..	2	46	37	bc	bc	0.8								
Wales.	{ Rhyl ... ..	3	46	40	-	-	1.0	England, S.W.	{ Weymouth ... ..	5	30	42	c.o	bc.o	0.0
	{ Colwyn Bay ... ..	2	45	40	bc	bc	0.6		{ Torquay ... ..	9	49	39	o	bc	0.0
	{ Llandudno ... ..								{ Paignton ... ..	6	45	37	o	bc	0.0
	{ Aberystwyth ... ..	3	45	42	bc.c	bc.o	0.3		{ Falmouth ... ..	11	54	40	gr	gr	0.0
{ Tenby ... ..	14	48	39	bc.c	bc	0.0	{ Penzance ... ..		9	55	42	o	bc	0.0	
England, E.	{ Cromer ... ..								{ Newquay ... ..						
	{ Lowestoft ... ..	-	46	35	bc	bc.c	6.1	{ Ilfracombe ... ..							
	{ Felixstowe ... ..	-	47	36	bc	bc.c	5.4	{ Weston-super-Mare ... ..	3	48	41	bc	bc	0.0	
	{ Walton-on-Naze ... ..	-	47	36	bc.c	bc.c	4.6								
{ Southend-on-Sea ... ..	-	47	36	bc.b	o	2.9									

## LONDON OBSERVATIONS.

## Additional Observations for Yesterday.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.			In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.			
				Max.	Min.								Max.	Min.							
24 HOURS ENDED 9 A.M. TO-DAY.																					
	%	%	Hr.	° F.	° F.	° F.	mm. §					mm. §	° F.	° F.	° F.				Hr.		
Greenwich (Royal Obs.) ...	72	99	3.2	48	40	37	15	bc	c.o.or	or		1	42	36	31	bc.c	c.o	eng	*		
City (Bunhill Row) ...	75	98	0.4	48	40	37	15	bc	c.o.or	*		1	44	35	29	bc	bc	bc	3.2		
Westminster (St. James's Pk.)	98	99	2.5	47	40	36	15	m	m.or	r											
Camden Sq. (Brit. Rainfall)	73	100	1.7	47	39	41	18	bm	bc.or	*											
Hampstead (Reservoir) ...	6	98	3.2	46	36	31	18	bc	bc.or	or		6	44	36	28	r	bc	c.or	3.7		
Richmond Park	...	*										*							*		
Kew. (See front page.)				VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.																	
				Total.		Average Rate.		Max. Rate.													
				39.3 Joules		12.0 Milli-watts.		26 Milli-watts.													
S. Kensington (Roof of M.O.)	71	98	2.3									0.2	47	37	26	b	bc.c	bc.c	*		

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

... 12th Nov., 1915.			
	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.10	11.37	4.44
Greenwich ...	7.12	11.37	4.43
Wick ...	7.16	11.44	4.45
Valencia ...	7.55	11.56	3.57
	7.58	11.58	3.58
	7.57	12.25	4.52
	7.59	12.26	4.52

## NOTES ON YESTERDAY'S WEATHER.

In the course of the day conditions became very unsettled, with strong winds and gales and heavy rains in many parts of England and Ireland, hail and snow showers in Scotland. At Valencia the rainfall amounted to 44 mm.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

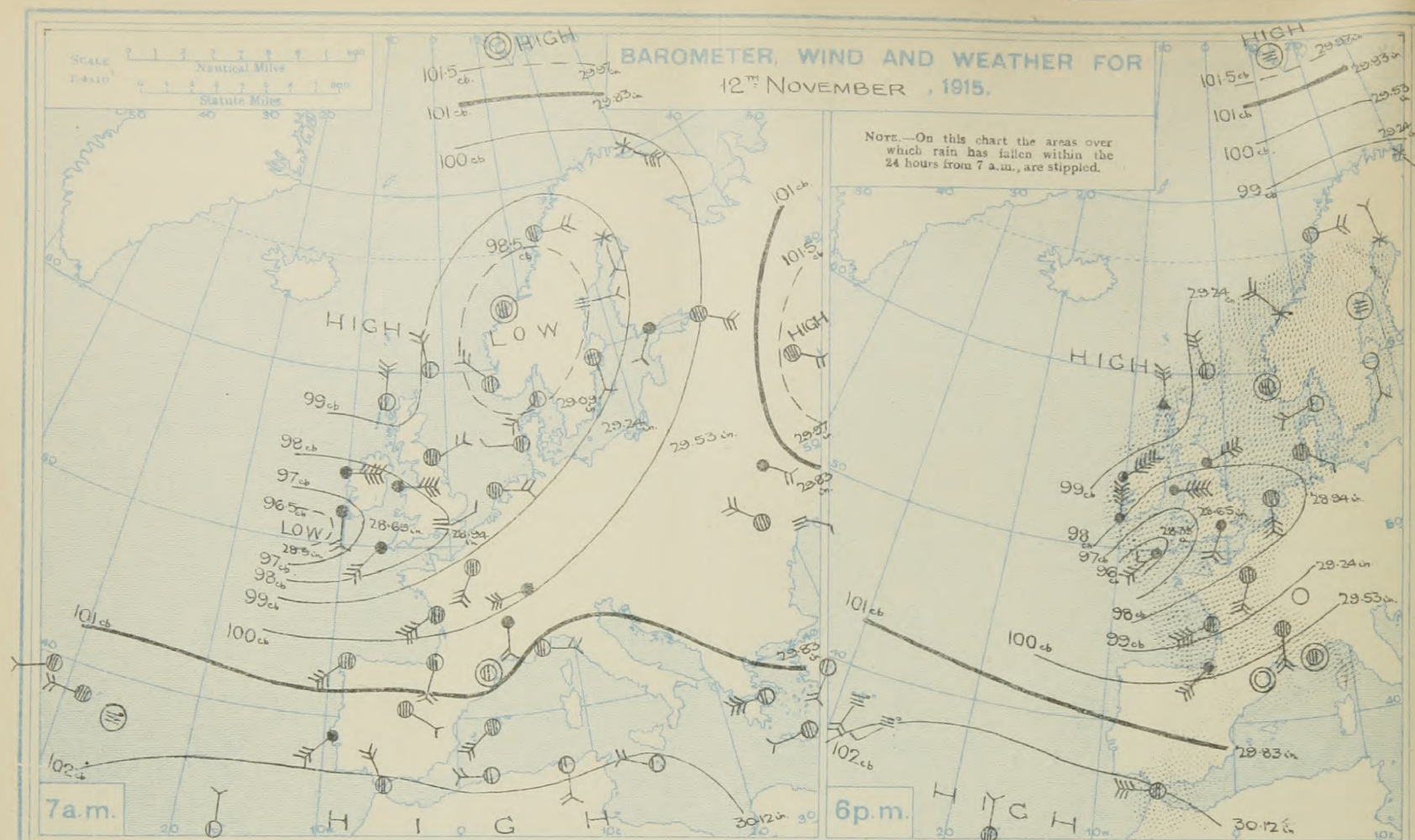
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DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 317. Saturday,  
13<sup>th</sup> November, 1915.

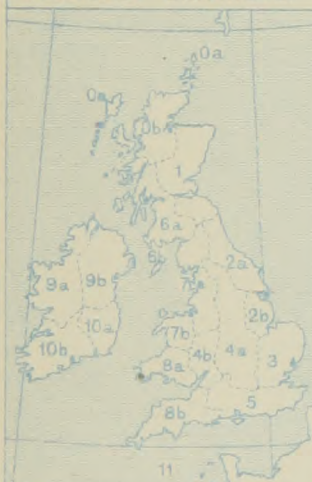
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.						Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
Lerwick ...	986.0	37	NNW	5	bcg	993.2	+5	39	+3	N	7	-	bcg	6	5	39	35	bc	bcsp	bcgsp	Hours.	
Deerness ...	988.5	36	NNW	5	cplis	992.9	+	37	+1	N	5	-	bsr	5	4	40	35	c.bcp	bc.cph	c.opsh	1.1	
Stornoway ...	994.0	35	N	6	bcphg	999.5	+4	36	-1	N	6	-	bcg	5	2	39	34	bcphg	bcphg	bcpsg	1.9	
Castlebay (Barra Isd.)	993.4	40	NNW	5	b	1000.0	+3	39	-1	N	3	N	b	3	2	41	35	ohp	hpo.b	bhp.bc	0.0	
Glasgow ...	987.1	37	NNE	5	o	997.2	+7	35	0	WNW	1	N	b	-	38	33	o	og	o.c.b	0.0		
Eskdalemuir ...	983.2	33	NE	6	ors	993.9	+6	33	-1	NNW	7	-	bc	7	34	30	os.ors	ors	ors.b.c	0.0		
Malin Head ...	987.5	42	NNE	9	cg	1000.9	+5	40	0	N	9	N	cg	8	1	43	39	ogp	cg	cgp	0.0	
Blacksod Point ...	985.2	39	NE	10	ouqph													ouqph	ouqph		0.0	
Valencia ...	982.5	40	N	9	ry	1008.6	+4	46	-8	WNW	6	NW	bc	5	48	54	?	ouqph	ouqph	v.c.b.c	0.0	
BRITISH ISLANDS.																						
Roche's Point ...	972.2	37	N	8	r													r	r		0.0	
Birr Castle ...	978.5	33	N	5	s	1005.7		34	-6	W	1	-	c	24	40	32	or	os	os.c	0.0		
Donaghadee ...	980.4	39	ENE	10	ouq	998.4	+7	43	0	N	8	N	bcg	7	11	43	30	ouq	ouq	ouq.bc	0.0	
Liverpool (Bldston)	972.8	38	ENE	5	r	994.3	+8	39	+2	NW	5	N	bcg	4	19	40	35	or	or	or	0.0	
Holyhead ...	972.2	41	E	10	ouq	997.7	+10	44	+4	NE	8	NE	opbm	8	45	44	38	ouq	ouq	ouq.c	0.0	
Pembroke (St Ann's)	965.5	52	S	2	bc	1001.3	+12	42	-2	NNW	7	N	bcg	6	13	54	32	cg.m	cg.m	cgp	0.0	
Scilly (St. Mary's)	958.3	50	SW	5	f	1005.1	+17	46	-9	NW	9	NW	c	7	7	55	41	ouq	ouq	ouq.c	1.7	
Falmouth ...	963.2	46	SSW	6	c	1002.2	+18	43	-12	NW	8	-	b	5	9	55	40	ouq	ouq	ouq.c	0.4	
Jersey (St. Aubin)	974.8	56	SW	3	bc	995.1		45	-11	NW	7	-	ogp	5	6	53	43	ouq	ouq	ouq	0.8	
Portland Bill ...	969.2	54	SW	6	cpb	992.7	+24	42	-13	NNW	8	-	cpb	5	8	56	41	ouq	ouq	ouq	0.0	
Dungeness ...	973.6	54	SW	6	og	?	+13	41	-14	NW	7	-	og	6	16	56	40	ouq	ouq	ouq	0.0	
Dover ...	974.0	54	SW	7	r	982.2	+15	45	-9	NW	9	N	o	4	16	55	38	ouq	ouq	ouq	0.0	
Wick ...	989.1	36	N	4	bc	993.7	+5	37	-2	N	5	-	bc	4	3	40	33	bcg	bcpho	cg.h.sp	0.0	
Nairn ...	990.6	35	N	4	og	996.5		35	-1	N	7	-	og	6	1	39	33	bc.c	cg	uq	0.0	
Aberdeen ...	987.8	37	NW	3	o	992.1	+5	38	+5	NW	6	W	b	3	4	38	33	osb	o	os.p.b	0.0	
Leith ...	986.3	40	NE	6	o	995.3	+4	39	-1	NW	2	NW	bc	9	41	37	osrh	orq	orq	0.0		
Tynemouth ...	981.0	39	ENE	7	ouq	983.4	+5	35	-8	N	5	N	ouq	6	12	43	34	ouq	ouq	ouq	0.0	
Spurn Head ...	973.1	45	E	7	ouq	983.4	+4	40	-4	N	9	-	ouq	7	18	45	38	ouq	ouq	ouq	0.0	
Yarmouth ...	971.7	53	SW	3	bc	974.7	+8	42	-4	N	9	-	ouq	6	12	55	41	ouq	ouq	ouq	0.0	
Clacton-on-Sea ...	972.9	50	SSW	4	c	981.8	+15	46	-1	NW	6	N	o	4	14	52	39	ouq	ouq	ouq	0.2	
Nottingham ...	971.8	43	NE	5	r	989.7		37	-4	NW	4	NW	o	27	44	36	r	r	r	0.0		
Bath ...	969.6	53	SW	2	b	995.1		39	-4	NW	4	W	bc	12	59	36	r	r	r	0.3		
St. Farnborough ...	970.8	52	SSW	5	r	988.2	+16	47	-7	NNW	7	N	bcv	8	56	37	ouq	ouq	ouq	0.3		
London (ew Obsy.)	971.7	53	SSW	4	od	987.8	+18	39	-6	NW	7	-	og	8	56	38	ouq	ouq	ouq	0.0		
NORTHERN EUROPE.																						
Spitsbergen ...	1016.7	-15	-	0	m	1013.2	-5	-13	-28	-	0	-	b	-	-13	-17						
Vardö ...	988.2	32	SE	2	s	985.1	+2	28	0	SW	2	-	o	2	32	16						
Bodö ...	983.5	28	E	4	bc	986.3	+3	30	+3	E	2	-	bc	2	30	21						
Chr. iansund ...	982.3	39	NW	4	s	985.2	+1	39	+2	-	0	-	o	3	10	41	36					
Skudesnaes ...	982.6	34	-	0	c	981.7	-1	26	-1	NNE	1	-	c	2	41	34						
Færder (X'ania Fjord)	983.9	39	WSW	3	b	982.0	-1	26	-3	NNE	5	-	r	2	41	36						
The Scaw (Skagen)	985.3	36	WSW	3	b	977.1	-4	39	0	ENE	5	-	o	5	43	36						
Blaavands Huk ...	982.3	39	ESE	1	o	972.7	0	46	+7	SSW	3	-	o	3	7	48	34					
Haparanda ...	986.9	25	N	2	s	985.3	+3	34	+4	SW	2	-	o	12	34	25						
Hernösand ...	982.3	37	-	0	f	988.6	+2	32	-7	-	0	-	f	1	45	32						
Stockholm ...	987.7	37	S	2	b	987.1	-2	41	+2	SE	4	-	r	2	43	36						
Wisby ...	991.3	39	WSW	2	b	984.2	-5	43	+2	S	2	-	r	2	5	43	37					
Karlstad ...	985.3	37	SW	2	b	983.5	-3	34	-5	NE	2	-	s	2	41	30						
Petrograd (5 a.m. G.M.T.)																						
FRANCE, &c.																						
The Helder ...	973.6	52	S	7	o	973.6	+2	46	+3	SSW	3	-	r	4	15	64	43					
C. Gris Nez ...																						
La Hève ...	976.2	52	SW	7	r	986.3		43	-2	NNW	8	-	r	8	6	57	39					
Ushant ...																						
Brest (St. Mathieu)	?	54	SW	8	r	1004.4	+2	47	-6	NW	9	-	c	7	5	50	45					
Rochefort (Ile d'Aix)	989.7	57	SW	8	c	993.9	+6	47	-10	WNW	9	-	r	17	59	45						
Biarritz ...	995.9	69	SW	6	r	1006.9	+4	52	-8	WSW	8	-	r	8	70	48						
Paris ...	983.4	57	SSW	6	bc	978.0	-2	48	-6	WNW	5	-	o	4	57	46						
Belfort ...																						
Lyons ...	1000.0	53	S	5	o	997.2		48	+4	SSW	3	-	bc	1	56	47						
Nice ...	1007.1	51	-	0	c	997.6	-4	51	+5	SW	4	-	r	4	5	50						
Perpignan ...	1002.7	48	-	0	b	1003.7	+3	55	+10	W	7	W	o	-	57	43						
Sanguinaire ...	*	52	W	3	o	*		63	+8	WNW	4	-	m	4	4	64	55					
SOUTHERN EUROPE.																						
Corunna (7 a.m.)																						
Madrid (8 a.m.)																						
Lisbon (9 a.m.)																						
Gibraltar ...	1020.0	62	W	7	c	1018.6		61	+2	W	6	-	c	3	6	66	58					
Rome ...																						
Malta (8 a.m.)	*	*	*	*	*	1015.4	-1	68	+7	S	3	NW	o	1	-	68	61					
AZORES & MADEIRA.																						
Azores (Horta, 8 a.m.)	1019.7	66	SSW	4	m	1020.7	0	66	+1	SSW	4	-	o	3	-	72	64					
Madeira (Funchal)	1023.0	66	N	2	c	1023.7	0	61	+2	N	2	-	b	2	-	68	69					
South Farnborough 7 a.m.																						
Pilot Balloon Ascent																						
Wind at 500 metres NW by N 37 miles per hour.																						
GALES.																						
Duration and Extreme Force in British Islands.																						
Eskdalemuir: 12h-13h Squall NE. 8																						
Malin Head: 12h-13h NNE 8																						
12h-12h 18h-7h NNW-NNE 9																						
Blacksod Point: 12h-13h NE 10																						
Valencia: 12h-21h Force 8																						
15h-18h N 9																						
Roche's Point: 12h-17h-18h N 8																						
Donaghadee: 12h-13h-14h Force 8																						
Ext. ENE 10 18h.																						
Holyhead: Gale all day																						
Ext. E 10 - 16h.																						
Pembroke: 12h-13h 21h-4h Force 8.																						
Ext. N 9 13h 1h.																						
Scilly: 12h-13h 21h-7h Force 8.																						
Ext. NNW 11 at 1h.																						
Portland Bill: 13h 1h-7h Force 8.																						
Dungeness: Gale during night																						
Dover: 13h-14h Force 8																						
Ext. N. 11 6h.																						
Aberdeen: Gust NW 19 metres at 6h.																						
Spurn Head: 12h-13h 19h-7h Gale Force.																						
Ext. Force 10 24h-4h																						
Yarmouth: 13h 41-7h N 9																						
Nottingham: 13h 21h NE 8																						
Bath: Gust 22 metres per sec.																						
Kew: 13h Ext. N. 8 at 2h 40m																						





FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

Western Channel and Bay 11

Squally Northerly and North-Westerly winds, strong to a gale in many places, then moderating; changeable, fair or fine to dull, some cold precipitation; lower temperature, local night frost.

Squally North-Westerly to Westerly strong winds and gales, moderating later; high sea and swell; changeable, some rain; colder.

#### FURTHER OUTLOOK.

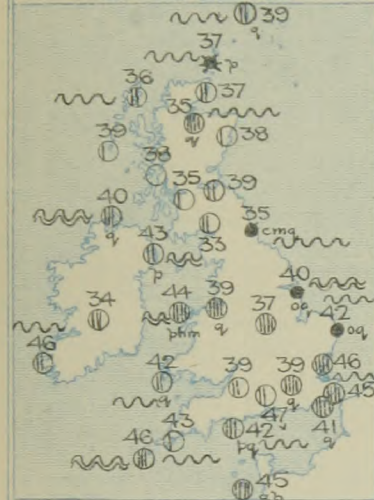


# SYNOPTIC CHART FOR 7 a.m., SATURDAY, 13<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

The Northerly wind will decrease and tend to back again later, the general situation remaining unsettled.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



### EXPLANATION.

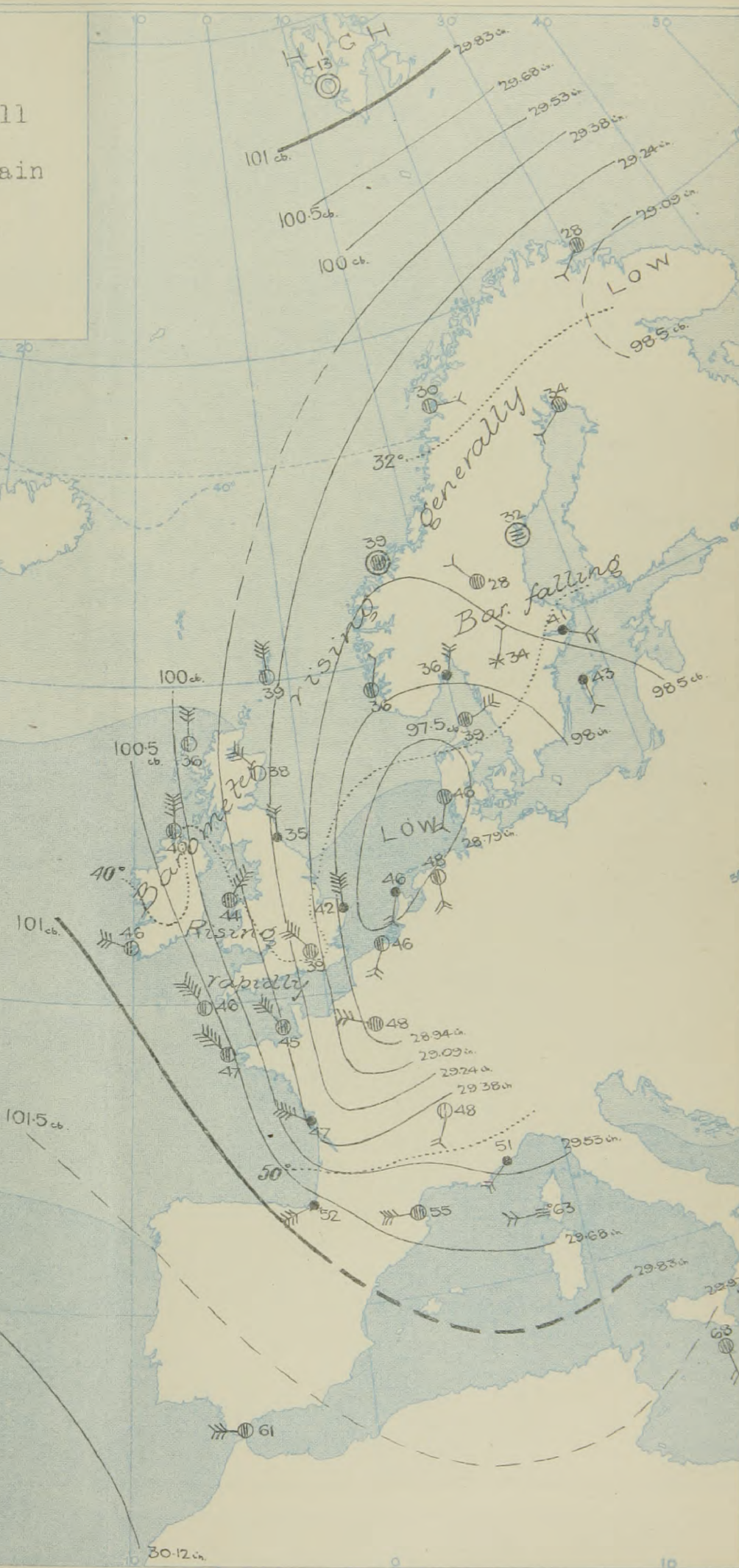
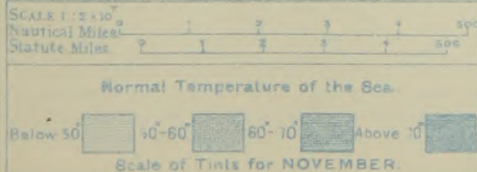
**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm   
**TEMPERATURE.**—Given in degrees Fahrenheit.   
 Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 clear sky. sky 3/4 clouded. sky 1/2 clouded. overcast sky. rain falling.  
 \*sne. hail. fog. mist. T, thunder.  
 Ts, thunderstorm.  
**SEA DISTURBANCE.**—Rough High

Inches.

31

30

29





## DAILY WEATHER REPORT.

13<sup>th</sup> November

1915

REPORTS  FOR  YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain-fall. Milli- metres.	TEMP.	
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.							
																			° F.
	Spitsbergen	1021.6	-11	-	0	b	1018.4	-1	15	+21	-	0	*	b	*	*	15	-19	
	Petrograd	1004.3	37	SSE	6	o	1000.0	-3	39	+23	SE	5	-	o	*	-	39	18	
	Lyons	1014.7	44	SW	1	o	1005.1	*	44	+4	S	3	*	r	*	7	51	40	
12 <sup>th</sup> November.																			

12<sup>th</sup> November

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.		
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.			
	mm.‡	° F.	° F.			Hr.		mm.‡	° F.	° F.			Hr.		
Scotland.	{ Oban ... ..	—	40	32	o	o	00	{ Tunbridge Wells ... ..	14	56	43	r	r.c	02	
	{ Banff ... ..	1	41	35	hp	c	00		{ Margate ... ..	14	58	40	r	r	00
	{ Carnoustie ... ..	...	...	...	...	...	...		{ Ramsgate ... ..	14	56	43	r	r.c	02
	{ St. Andrews ... ..	0.3	40	26	*	*	00		{ Hastings ... ..	17	55	45	oc	oc.o	00
Eng. N.E.	{ Harrogate ... ..	18	37	32	r	r	00	{ Bexhill-on-Sea ... ..	...	...	...	...	...	...	
	{ Skegness ... ..	17	46	35	oc	rur	00		{ Eastbourne ... ..	28	57	45	o.cq	oq	00
Eng. N.W.	{ Morecambe ... ..	8	40	37	r	r	00	{ Seaford ... ..	21	56	45	r	r.c	01	
	{ Blackpool ... ..	6	39	36	o.c	o.h.s.r	00		{ Brighton ... ..	22	56	41	o.oc	oc.coc	02
	{ Southport ... ..	15	38	36	oc	oc.oq	00		{ Worthing ... ..	25	55	46	r	r	01
									{ Littlehampton ... ..	2	55	?	r	c.bct	03
Midlands.	{ Buxton ... ..	24	38	32	o.r.s	or	00	{ Bognor ... ..	10	55	46	oc	oc	06	
	{ Leamington Spa ... ..	30	46	35	oc	oc	00		{ Southsea ... ..	20	57	43	oc	oc	05
	{ Malvern ... ..	...	...	...	...	...	...		{ Bournemouth ... ..	25	56	42	oc	oc.c	00
	{ Ross-on-Wye ... ..	26	47	36	oc	oc	00								
Wales.	{ Rhyl ... ..	17	40	34	oc	oc	00	{ Weymouth... ..	14	57	47	oc.bcp	cp.bc	02	
	{ Colwyn Bay ... ..	22	41	35	r	r	00		{ Torquay ... ..	15	56	49	oc	op	01
	{ Llandudno ... ..	...	...	...	...	...	...		{ Paignton ... ..	24	57	47	or.op	op	00
	{ Aberystwyth ... ..	29	45	38	r.o	oc.o	00		{ Falmouth ... ..	19	55	48	r.o	op.c	04
	{ Tenby ... ..	16	54	42	r	r	00	{ Penzance ... ..	11	56	48	oc	c.oc	05	
England, E.	{ Cromer ... ..	...	...	...	...	...	...		{ Newquay ... ..	...	...	...	...	...	...
	{ Lowestoft ... ..	12	55	36	oc	oc.c	00		{ Ilfracombe ... ..	28	56	44	r.op	o.c	01
	{ Felixstowe ... ..	22	54	38	ocm	cm	02		{ Weston-super-Mare ... ..	19	57	38	fx.bc	b.bc.c	10
	{ Walton-on-Naze ... ..	19	52	39	odf.or	oc.bc	02								
	{ Southend-on-Sea ... ..	21	54	40	od.c	c.odu	00								

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 82	% 73	Hr. 0.3	° F. 58	° F. 38	° F. 37	min. 8	or	or	o.r
City (Bunhill Row) ...	% 81	% 73	Hr. 0.1	° F. 58	° F. 39	° F. 38	min. 8	or	or	o.r
Westminster (St. James's Pk.)	% 81	% 73	Hr. 0.3	° F. 58	° F. 39	° F. 38	min. 10	or	or	o.r
Camden Sq. (Brit. Rainfall)	% 83	% 74	Hr. 0.1	° F. 57	° F. 37	° F. 36	min. 11	or	or	o.r
Hampstead (Reservoir) ...	% 83	% 74	Hr. 0.1	° F. 57	° F. 37	° F. 36	min. 11	or	or	o.r
Richmond Park	% 83	% 79	Hr. 0.2	° F. 55	° F. 34	° F. 28	min. 9	or	or	o.r
Kew. (See front page.)	% 83	% 79	Hr. 0.2	° F. 55	° F. 34	° F. 28	min. 9	or	or	o.r
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
				Total.		Average Rate.		Max. Rate.		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				174 Joules		5.4 Milliwatts.		23 Milliwatts.		
S. Kensington (Roof of M.O.)	79	74	0.2							

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

13 <sup>th</sup> & 14 <sup>th</sup> November, 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.12	11.37	4.3
Greenwich ...	7.14	11.38	4.2
Wick ...	7.16	11.44	4.13
Valencia ...	7.18	11.46	4.12
	7.58	11.54	3.55
	8.0	11.57	3.53
	7.53	12.25	4.52
	8.1	12.26	4.51

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
	mm.‡	° F.	° F.	° F.				Hr.
Dublin to 4 p.m.								
Darwen to 9 p.m.	6	38	34	33	cars	ors	ors	* 0.0
Manchester "				*				
Birmingham "					*			
Oxford to 8 p.m.								
Teignmouth to 9,,	* 8	57	53	46	or	orc	c.od	* 0.1
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	9	58	38	36	or	oro	o.bc.o	*

## NOTES ON YESTERDAY'S WEATHER.

A gale to a whole gale from East and North was felt in all districts, and heavy rain was general, 44 mm at Holyhead, 48 mm at Valencia. Several localities had hail or sleet.

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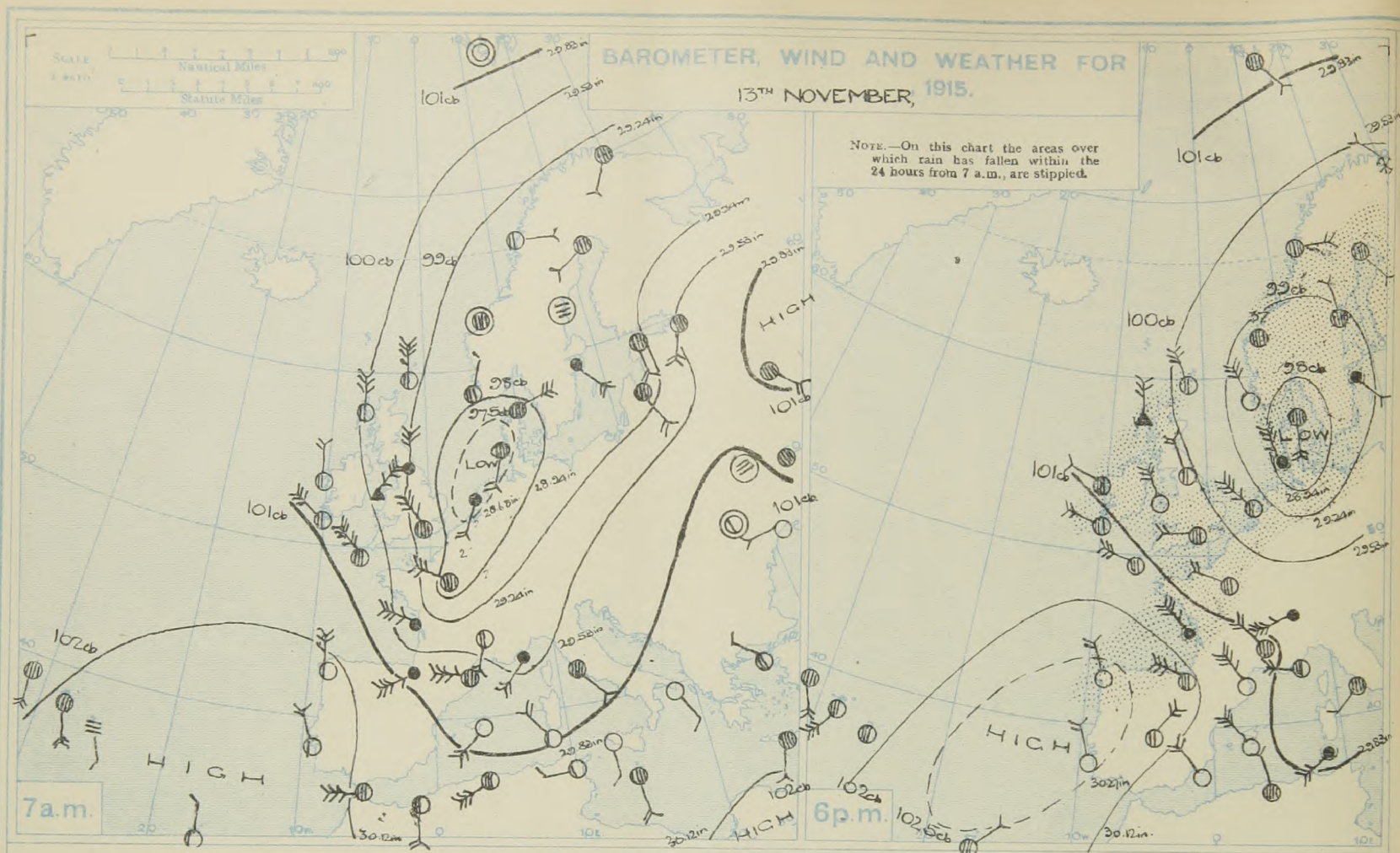
1915

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 318.

Sunday  
14<sup>th</sup> November 1915.

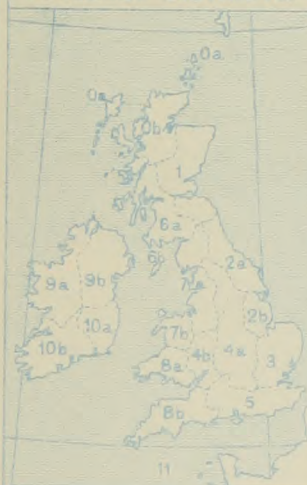
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M. G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Dir.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.					Max.	Min.	Morning	Afternoon.	Night.	
Lerwick ...	994.8	37	NNW	5	bcg	997.2	+1	38	-1	NNW	6	-	cg	5	1	39	34	bcg	bcgsp	cg	Hours.
Deerness ...	997.9	37	NNW	5	ophs	999.6	+	37	0	NW	5	-	cp	4	1	40	35	psk	cp	cp	2.2
Stornoway ...	1004.1	34	N	4	bcg	1006.3	+2	34	-2	N	5	-	bcg	5	2	39	30	bcg	bcg	bcg	1.5
Castlebay (Barra Isd.)	1004.5	38	N	1	o	1007.6	+2	36	-3	NW	1	-	b	2	6	41	33	bcg	bcg	bcg	1.5
Glasgow ...	1003.4	34	NW	2	bcg	1006.3	+1	30	-5	NNW	1	-	b	+	-	40	29	b	b.c.g	bcg	5.9
Eskdalemuir ...	1003.2	31	NW	4	o	1007.0	+1	20	-13	-	0	-	bc	+	1	35	20	bc	b.c.c	o.c.b.c	6.7
Malin Head ...	1004.8	40	NW	6	cg	1007.1	+1	36	-4	NW	3	NW	c	4	9	41	34	bcg	cg	os	0.7
Blacksod Point ...	1006.9	36	NNW	3	bcg	1008.9	+3	39	-1	NNE	3	NE	bc	3	2	44	34	cp	bcg	bc	+
Valencia ...	1011.0	45	NNW	4	cp	1009.6	0	44	-2	NW	4	-	op	4	8	48	40	c.op	obc	cp	1.2
Roche's Point ...	1010.7	42	N	3	cp	1009.2	+	38	-	N	2	NW	c	2	4	45	36	-	-	-	+
Birr Castle ...	1007.4	38	NNW	1	c	1008.6	+	34	0	N	1	-	o	+	-	40	29	-	-	-	4.2
Donaghadee ...	1004.4	37	NW	5	cm	1006.5	+1	36	-7	NNW	4	NW	bc	3	1	43	33	cm	cm	cm	+
Liverpool (Bidston)	1003.9	41	NW	4	o	1006.2	+1	36	-3	ENE	1	NE	bc	2	1	44	34	b	c.o	os	5.4
Holyhead ...	1005.4	44	NNW	5	cg	1006.2	+1	42	-2	NNW	5	N	c	4	6	45	38	op	c.b.c	cp	4.0
Pembroke (St. Ann's)	1007.3	45	NNW	3	cp	1007.7	0	42	0	NNW	2	NW	c	4	1	45	40	bcg	bc	cp	5.7
Scilly (St. Mary's)	1010.1	48	NNW	6	cg	1004.5	-1	46	0	NNW	4	N	op	5	2	48	42	cg	cg	cg	2.2
Falmouth ...	1009.7	43	NNW	3	c	1008.8	0	43	0	NW	3	-	o	3	3	49	41	cg	c.b.c	bcg	5.6
Jersey (St. Aubin)	1010.0	47	N	4	op	1007.5	+	45	0	NNW	4	NW	b	4	6	50	41	o.c.b.c	bc	op	4.2
Portland Bill ...	1007.3	46	NNW	5	o	1006.8	+1	41	-1	NW	4	-	b	4	1	47	38	cg	bc	cp	+
Dungeness ...	1004.0	39	NNW	4	bcg	1005.5	0	32	-9	NW	2	-	bc	2	-	43	31	r.bcg	bcg	bc	+
Dover ...	1004.6	39	NNW	4	b	1005.1	0	34	-11	NW	4	-	bc	2	0.2	42	31	o.c	c.b.c	bc	1.7
Wick ...	999.4	35	N	4	s	1001.2	0	36	-1	N	4	-	bc	4	4	40	32	phg	bcg	bcg	+
Nairn ...	1002.9	34	NW	1	cu	1004.0	+	32	-3	N	1	-	cu	2	1	36	30	fc	bcg	bcg	0.0
Aberdeen ...	999.5	35	NW	4	b	1002.0	+1	32	-6	NNW	5	-	b	3	1	39	32	bcg	bcg	bcg	3.2
Leith ...	1012.4	38	NNW	1	c	1005.6	+1	32	-7	NW	1	-	bc	+	-	41	31	c.b.c	c.b.c	c.o.c	+
Tynemouth ...	1000.4	37	NNW	3	bc	1002.2	+1	30	-5	NNW	2	-	bc	4	-	40	29	bc	bc	bc	+
Spurn Head ...	1006.3	40	N	7	bc	1003.6	0	35	-8	NNW	5	-	cg	6	6	42	32	bcg	bcg	bcg	3.2
Yarmouth ...	999.6	37	NNW	5	b	1003.0	+1	32	-10	NW	2	NW	cm	3	5	44	33	op	op	op	0.0
Clacton-on-Sea ...	1002.5	39	NNW	4	bc	1005.1	0	34	-12	NNW	2	-	o	1	-	46	32	op	c.b.c	bc	2.3
Nottingham ...	1008.6	38	N	1	c	1005.6	+	32	-5	N	1	-	b	+	-	43	29	o.c.b.c	bc	c.o.b	3.1
Bath ...	1006.7	41	N	-	bc	1008.1	+	31	-8	N	-	-	b	+	0.2	47	30	c.b.c	bc	bc	5.8
St. Farnborough ...	1005.9	38	NW	2	bc	1006.0	0	29	-6	NNW	1	NW	bc	+	-	44	29	bc	bc	bc	3.9
London (Kew Obs.)	1005.7	40	N	3	c	1006.4	0	32	-7	N	1	-	cm	+	-	44	32	op	bc	bc	2.7
Spitsbergen ...	1010.4	2	SSE	2	o	1011.8	+2	1	+14	-	0	-	b	+	+	1	-17	GALES.			
Vardö ...	999.9	30	NW	2	s	1010.9	+3	28	0	NE	2	-	o	2	+	32	25	Duration and Extrema Force in British Islands.			
Bodö ...	993.3	30	E	3	o	993.0	0	34	+4	E	4	-	c	2	-	30	28	Great Yarmouth			
Christiansund ...	988.3	37	-	0	o	988.0	0	36	-3	SW	2	-	c	2	3	39	21	13 <sup>th</sup> 4 am to 4 pm N.E. at 6 am N.W.			
Skudesnaes ...	988.0	37	NNW	6	c	983.5	0	39	+3	NW	2	-	c	2	-	39	36	Aberdeen			
Færder (Kjølnefjord)	976.7	36	N	5	o	977.3	0	37	+1	N	2	-	o	1	11	37	34	13 <sup>th</sup> 2 pm. Gust 21 m.p.s.			
The Scaw (Skagen)	975.7	45	S	4	o	980.4	+2	37	-2	NNW	4	-	bc	4	6	48	37				
Blaavands Huk ...	979.8	39	NNW	7	bc	989.7	+2	43	-3	NNW	7	-	c	5	5	46	37				
Haparanda ...	997.5	32	SE	2	o	992.2	-4	32	-2	RSE	4	-	bc	+	6	34	30				
Hernösand ...	998.7	36	N	2	o	998.1	-3	36	+4	ENE	2	-	bc	+	14	37	30				
Stockholm ...	983.1	46	SE	2	bc	979.7	-2	45	+4	SSE	2	-	bc	+	7	46	41				
Wisby ...	985.2	48	S	2	o	982.3	0	43	0	SW	6	-	o	+	5	48	41				
Karlstad ...	979.0	41	-	0	bc	976.2	-1	41	+7	-	0	-	bc	+	13	43	30				
Petrograd (5 a.m. G.M.T.)	1003.4	36	SE	6	o	1001.5	+2	37	+3	SE	4	-	o	+	+	37	34				
The Helder ...	992.4	45	NW	8	bc	1000.2	0	41	-5	NNW	3	-	o	4	5	48	37				
C. Gris Nez ...	1004.4	42	SW	6	bc	1005.3	0	40	-1	NW	4	-	o	3	1	45	39				
La Hève ...	1009.0	46	NNW	7	o	1006.3	+	39	-4	SSE	1	-	bc	3	5	54	36				
Ushant ...	1013.5	45	NNW	6	bc	1011.1	0	50	+3	NW	6	-	c	5	1	54	45				
Brest (St. Mathieu)	1017.0	48	NW	6	bc	1014.9	-3	52	+5	NW	6	-	bc	+	11	52	43				
Rochefort (Ile d'Aix)	1020.7	53	NNW	7	c	1017.9	-2	51	-1	NNW	5	-	bc	5	4	54	48				
Biarritz ...	1008.2	41	NW	3	bc	1005.5	-3	39	-9	S	1	-	o	+	3	52	36				
Paris ...	1004.7	37	NNW	7	bc	1006.9	+	34	-	-	0	-	o	+	6	54	33				
Belfort ...	1012.2	42	NW	4	o	1012.0	+	35	-13	-	0	-	bc	+	-	53	33				
Nice ...	1006.3	46	N	4	c	1011.1	+6	47	-4	NE	4	-	bc	4	-	54	45				
Perpignan ...	1015.7	46	NNW	7	b	1017.5	-1	48	-7	NNW	3	-	bc	+	-	59	45				
Sanguinaire ...	1025.9	54	NNE	3	b	1025.9	-2	50	-2	SW	3	-	bc	5	1	57	46				
Corunna (7 a.m.)	1022.1	48	NNE	4	bc	1029.0	+3	32	-	-	0	-	bc	+	-	54	28				
Madrid (8 a.m.)	1025.6	54	NNW	3	b	1027.0	0	48	-7	N	2	-	bc	6	-	59	46				
Lisbon (9 a.m.)	1006.4	55	SW	1	o	1009.1	+5	52	-7	SW	3	-	bc	+	11	64	52				
Gibraltar ...	1016.0	66	NE	2	c	1025.5	0	59	-2	-	?	-	bc	+	-	70	66				
Rome ...	1019.9	+	SSW	6	c	1016.0	-2	67	+1	SSW	9	-	o	6	-	70	66				
Malta (8 a.m.)	1024.0	66	NE	2	c	1025.5	0	59	-2	-	?	-	bc	+	-	70	66				
Azores (Horta, 8 a.m.)																					
Madeira (Funchal)																					





FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay 11

0 { a } Fresh to moderate or light Northerly and North-  
b } Westerly breezes; fair generally, some hail or sleet  
1 } showers; cold, night frost.

2 { a }  
b }  
3 } Moderate to light North-Westerly to Westerly  
4 { a } breezes; generally fair to fine; rather cold,  
b }  
5 } night frost.

6 { a }  
b }  
7 { a }  
b }  
8 { a } Light North-Westerly to Westerly breezes, backing  
b } South-Westerly later and freshening again; fair to  
9 { a } dull, some rain; temperature rising.  
b }

10 { a }  
b }  
11 } Fresh North-Westerly wind, moderating and backing  
again; sea rough; cloudy to dull, some rain;  
rather cold.

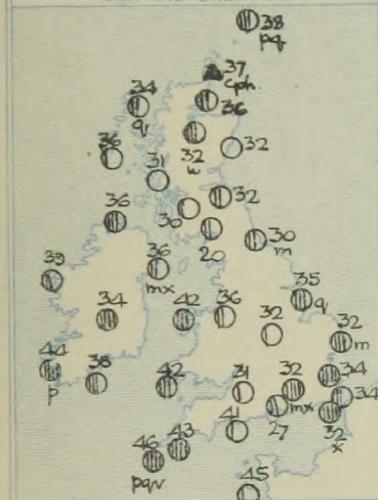
FURTHER OUTLOOK.



# GENERAL INFERENCE.

There are some indications of another depression out on the Atlantic, and the conditions, therefore, remain unstable, but the improved weather will probably hold through most of the day.

## TEMPERATURE, WEATHER AND SEA DISTURBANCE.



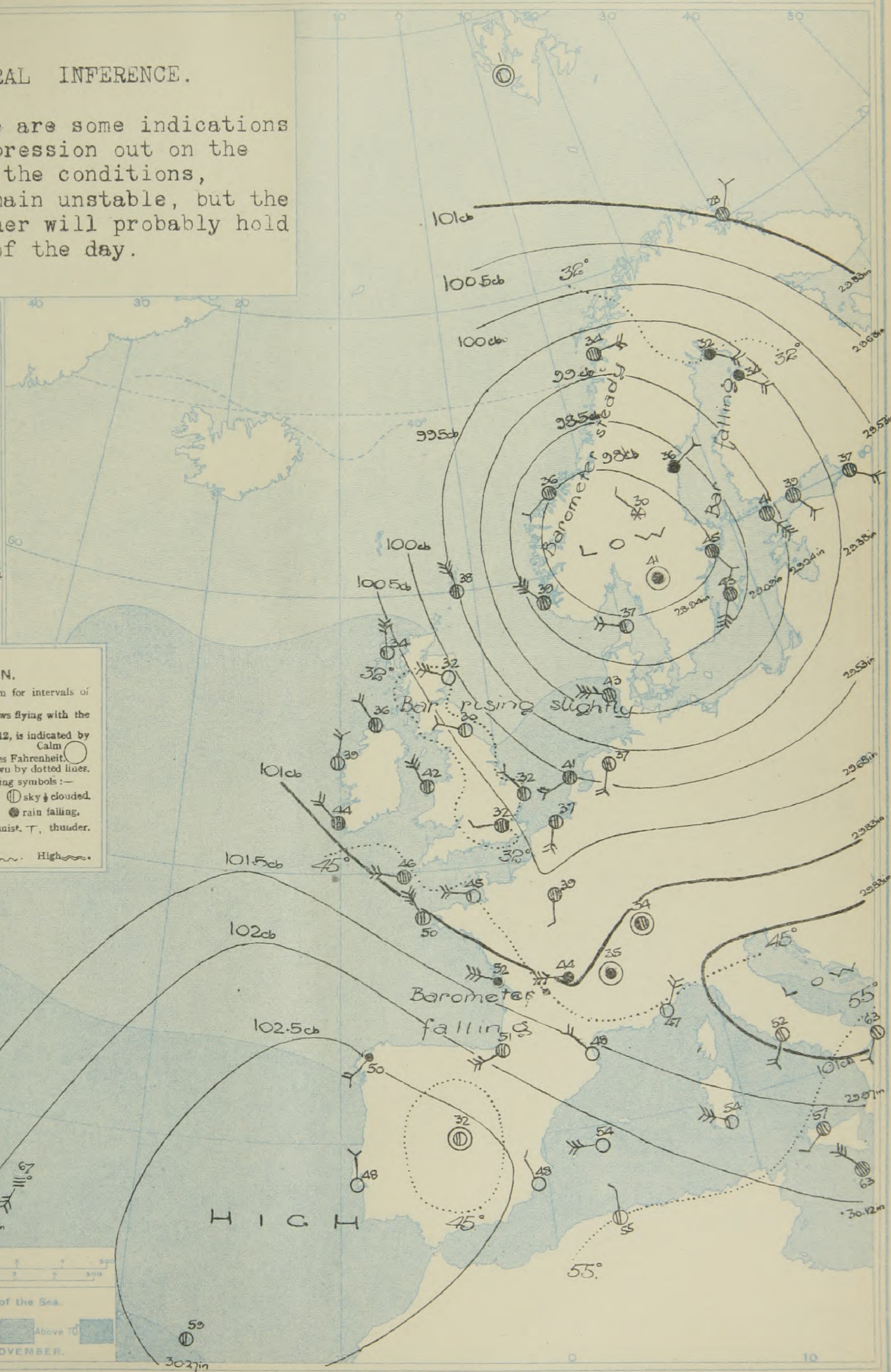
## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm   
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 clear sky. sky 1/4 clouded. sky 1/2 clouded. overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.  
**SEA DISTURBANCE.**—Rough High .

SCALE 1:50,000  
 Nautical Miles 0 1 2 3 4 5  
 Statute Miles 0 1 2 3 4 5

Normal Temperature of the Sea.

Below 50° 50°-60° 60°-70° Above 70°   
 Scale of Tints for NOVEMBER.





## DAILY WEATHER REPORT.

Sunday, 14th November, 1915.

REPORTS  FOR  YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain- fall. Milli- metres.		TEMP. Max. Min.	
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER. Milli- bars at M.S.L.	Change in 24 hours.	Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.					
				Direc.	Force 0-12.						Direc.	Force 0-12.								
																° F.	° F.			
	Petrograd	998.4	37	S	3	0	1008.0	+3	34	-5	SSW	4	-	0	0	1	41	34		
	Gris Nez	975.5	54	SSW	6	0	978.7	+10	41	-13	N	8	*	"	7	9	55	39		
	Cerunia	1003.1	59	SW	7	0	1024.6	+10	52	-9	N	5	-	b	7	5	64	50		
	Lisbon	1016.0	61	WSW	4	bc	1021.0	+4	55	-4	NNW	3	-	b	6	2	64	55		
	Rome	1012.0	57	SW	3	0	1007.1	-3	59	-	SE	2	-	0	"	4	57	50		
13 <sup>th</sup> November																				

13th November

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		°F.	°F.						°F.	°F.			
Scotland.	Oban ...	42	35	b	bc	4.0	Tunbridge Wells ...	...	45	40	c	c	0.0
	Banff ...	42	37	cq, hp	cq, hp	0.5	Margate ...	...	48	39	c	bc	0.0
	Carnoustie ...	...	...	...	...	...	Ramsgate ...	...	53	39	on c	b, bc	2.2
	St. Andrews ...	...	...	...	...	...	Hastings ...	...	...	...	...	...	...
Eng. N.E.	Harrogate ...	38	33	c, bc, b	b, bc	4.7	Bexhill-on-Sea ...	...	44	39	q	bc, b	2.2
	Skegness ...	42	34	rs, bc	bc, b	3.2	Eastbourne ...	...	45	38	c	bc	3.8
Eng. N.W.	Morecambe ...	...	...	...	...	...	Seaford ...	...	46	39	bc	bc, b	4.5
	Blackpool ...	44	36	b, bc	bc, on	5.6	Brighton ...	...	46	39	bc	bc, b	4.0
	Southport ...	43	37	b, bc	bc, hc	5.4	Worthing ...	...	46	39	b	bc	4.7
Midlands.	Buxton ...	37	28	bc	bc	4.4	Littlehampton ...	...	...	38	bc	b	5.6
	Leamington Spa ...	44	35	bc	bc, c	5.0	Bognor ...	...	51	38	bc	b	6.1
	Malvern ...	...	...	...	...	...	Southsea ...	...	46	37	b	b, bm	...
	Ross-on-Wye ...	47	35	bc	bc, b	6.1	Bournemouth ...	...	...	...	...	...	...
Wales.	Rhyl ...	45	37	c, bc	bc, cp	3.6	Weymouth ...	...	47	39	b	b, bc	5.9
	Colwyn Bay ...	...	...	...	...	...	Torquay ...	...	52	37	bc, b	bc, b	6.9
	Llandudno ...	...	...	...	...	...	Paignton ...	...	49	37	ph, b	b	6.8
	Aberystwyth ...	45	37	on c	c, bc	4.0	Falmouth ...	...	49	41	ba, b	c, bc, c	5.6
	Tenby ...	47	38	bc	bc	5.4	Penzance ...	...	50	42	o, bc	bc, c, o	6.0
England.	Cromer ...	...	...	...	...	...	Newquay ...	...	...	...	...	...	...
	Lowestoft ...	...	...	...	...	...	Ilfracombe ...	...	...	...	...	...	...
	Felixstowe ...	43	37	cq	bcq	1.8	Weston-super-Mare ...	...	...	...	...	...	...
	Walton-on-Naze ...	42	37	bc	bc, b	2.2							
	Southend-on-Sea ...	42	38	c, bc, b	b	3.0							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 60	% 91	Hr. 2.1	° F. 43	° F. 32	° F. 2.7	mm. § -	o, o, cp	bc	bc
City (Bunhill Row) ...	* 57	* 81	2.1	* 24.7	* 31	* 30	* -	* bc, o	* bc	* bm, m
Westminster (St. James's Pk.)	57	81	2.4	24.7	31	30	-	bc, o	bc	bm, m
Camden Sq. (Brit. Rainfall)	66	88	2.5	43	27	2.5	-	bc	bc, b	*
Hampstead (Reservoir) ...	* 89	2.9	42	28	1.8	-	c, obs	bex	bc	
Richmond Park	*	2.4	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	56	89	2.4	Total. 386 Joules		Average Rate. 12.0 Milliwatts.		Max. Rate. 23 Milliwatts.		

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON  
AND SUNSET FOR STATIONS IN THE UNITED KINGDOM  
TO-DAY AND TO-MORROW.

14th Nov., 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.14	11.38	4.2
Greenwich ...	7.18	11.45	4.12
Wick ...	8.6	11.57	3.53
Valencia ...	8.1	12.16	3.51

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded;  
c. sky three parts clouded; c. drizzling 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. snow; t. thunder;  
u. ugly, threatening sky; v. visibility; unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
	mm. §	° F.	° F.	° F.				Hr.
Dublin to 4 p.m.	15	42	34	29	qrsb	bc	c, cp	*
Datwen to 9 p.m.	1	39	32	27	acrs	c, b	b, c	5.2
Manchester "	6	43	36	*	ora	o, c, b	bc, o	3.6
Birmingham "	9	43	32	29	*	c	c, rs	6.0
Oxford to 8 p.m.	*	49	35	26	or	o, b, c, b	b, bc	*
Teignmouth to 9 "	6	49	39	35	aq, r, q	c, bc	bc	6.2
Plymouth "	8	50	38	*	cbq, orq	cpq	op	6.2
S. Kensington (Museum Grounds to 6 p.m.)	5	56	38	36	or, o	bc	bz	*

## NOTES ON YESTERDAY'S WEATHER.

Temperature touched 50° at a few southern stations, at some northern ones it remained below 40°. There were falls of rain, hail or snow in several localities. Sunshine varied from none in a few places to 7 hours at Torquay.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at M.O. and at the bookstalls at certain Railway Termini in London.



## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 319.

Monday,  
15th November, 1915.

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change to 24 hours.	WIND.		Dir. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall, Milli- metres.	TEMP.		WEATHER.				
			Dir.	Force 0-12.						Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.																						
Lerwick ...	1001.5	35	N	5	cq	1004.8	0	33	-5	N	3	N	bc	2	4	39	30	cq/sp	cq/sp	bc	Hours.	
Deerness ...	1004.0	36	NNW	5	bcpsh	1005.9	+	32	-5	NE	1	SE	c	2	1	39	32	cphs	bcpsh	bcpshs	1.6	
Stornoway ...	1006.0	33	N	3	bc	1004.5	+1	34	0	N	6	-	bc	5	7	38	30	bcpsh	bcpsh	bcpsh	3.9	
Castlebay (Barra Isd.)	1009.6	35	ENE	2	c	1006.6	-1	38	+2	NNW	3	N	b	3	10	42	32	bhp.b	bshbc	hp.bsb	4.7	
Glasgow ...	1008.8	32	NNW	1	b	1007.4	-3	25	-5	E	1	-	c	+	-	39	22	bcz	bz.b	b.bcz	6.8	
Eskdalemuir ...	1008.8	28	NNW	1	b	1009.6	-2	16	-4	-	0	NW	bc	0	-	35	15	bc.b	b	bx.bc	6.7	
Malin Head ...	1010.7	40	NNW	3	cq	1004.7	-2	38	+2	N	6	N	bcp	5	4	42	33	bcp	bcp	bcp	3.6	
Blacksod Point																						
Valencia ...	1014.8	38	-	0	b	1011.4	-2	32	-12	ENE	2	-	c	4	3	47	32	cphb	bcp	cp.cx	5.4	
Roche's Point																						
Birr Castle ...	1013.2	32	W	1	bc	1010.6		34	0	WSW	1	-	c		-	40	20	f	f.b	bx.bc	2.4	
Donaghadee ...	1009.6	37	WNW	4	bcm	1005.7	-4	34	-2	WSW	4	-	cphs	4	2	40	31	bcp	b	bcpshs		
Liverpool (Bidston)	1009.0	37	NW	3	bc	1009.4	-1	35	-1	WNW	1	W	o	2	3	43	34	b	bcp	bcp	5.8	
Holyhead ...	1009.6	42	NNW	5	cq	1008.3	-3	41	-1	W	4	W	cu	3	2	46	38	c.b.c.p	c.b.c.p	c.b.c.c	3.2	
Pembroke (St. Ann's)	1011.3	41	N	3	bc	1011.2	-2	41	-1	W	1	W	bcm	1	0.4	46	40	bcp	c.b.c.p	bcp	3.1	
Scilly (St. Mary's)																						
Falmouth ...	1012.5	44	NW	3	W	1011.9	-2	48	-3	-	0	-	bc	4	5	48	41	cq	cqv	cu.bcu	3.8	
Jersey (St. Aubin)	1010.4	40	NW	3	om	1012.8		39	-6	WNW	2	NW	c	2	4	48	35	b.c.p	q.c.bm	bm.c	1.2	
Portland Bill ...	1010.2	42	NW	3	b	1011.7	0	40	-1	WNW	2	-	b	3	-	45	38	c	bc.b	bc.b		
Dungeness ...	1008.6	32	NW	2	bc	1010.5	+1	27	-5	WNW	2	-	bx	2	-	41	27	o.c.b	bc	b.bcx		
Dover ...	1008.6	32	N	2	b	1010.8	0	29	-5	NW	3	-	b	2	-	41	29	bc.b	b	bx	6.6	
Wick																						
Nairn ...	1007.9	33	NW	1	bc	1004.9		32	0	NE	2	-	os	2	0.4	36	27	b.c	c.b	bc.c	1.1	
Aberdeen ...	1005.4	34	NNW	5	bc	1006.3	0	27	-5	W	1	W	b	3	1	37	27	bc.os	bcp	bcp	2.4	
Leith ...	1007.7	39	NW	2	b	1008.2	-1	26	-6	W	1	W	b		-	40	25	b.b.c	b	b.b		
Tynemouth ...	1005.6	33	ENE	2	bc	1007.3	0	27	-3	NW	2	-	bcm	4	-	38	27	bm	bc	bcm		
Spurn Head ...	1006.2	37	NNW	5	bcp	1007.7	0	32	-3	NW	?	-	bcp	5	-	39	30	bcp	bcp	bcp	4.9	
Yarmouth																						
Clacton-on-Sea	1007.9	38	WNW	2	b	1010.3	+1	29	-5	WNW	2	-	b	1	-	40	28	o.c.b	bc.b	bx	5.8	
Nottingham ...	1007.2	34	W	2	b	1010.3		27	-5	SW	1	-	fx		-	41	23	b.bcm	bc.bm	bx	4.0	
Bath ...	1010.5	32	W	1	b	1011.7		27	-4	W	1	-	m		-	44	26	bc.b	b	bm	4.9	
St. Farnborough	1009.7	33	WNW	1	b	1011.3	0	26	-3	W	1	-	bx		-	42	26	bz	b	bx	7.4	
London (Kew Obs.)	1009.8	36	W	1	b	1011.5	0	29	-3	WSW	2	-	bm		-	42	29	mx.bcm	bm	bm.bmx	6.4	
NORTHERN EUROPE.																						
Spitsbergen ...	1012.2	5	-	0	b	1006.6	-2	1	0	-	0		b			5	-4					
Vardö ...	1001.5	32	NE	6	s	997.0	+3	37	+9	SSW	5	-	o	2		37	23					
Bodö ...	999.9	34	E	2	o	986.3	0	32	-2	E	4	-	bc	2	1	34	34					
Christiansund	987.1	39	NW	2	r	992.4	+3	41	+5	NE	5	-	r	4	11	41	34					
Skudesnaes ..	987.0	39	NW	9	r	994.0	+4	39	0	NW	9	-	r	5	7	41	34					
Færder (X'ania Fjord)	981.2	36	NW	2	c	987.9	+3	36	-1	WNW	3	-	r	3	2	37	36					
The Scaw (Skagen)	983.1	41	W	6	c	989.6	+3	39	+2	WNW	2	-	o	3	3	45	37					
Blaavands Huk	994.1	43	WNW	7	o	998.1	+2	41	-2	WNW	6	-	c	5	Trace	45	39					
Haparanda																						
Hernösand ...	979.0	39	-	0	r	990.1	+3	36	0	SSE	4	S	bc		21	43	32					
Stockholm ...	985.7	39	S	4	b	990.7	+1	39	-6	S	2	-	o		Trace	45	36					
Wisby ...	991.9	41	SW	6	b	995.5	+2	41	-2	SW	4	-	bc			48	37					
Karlstad ...	981.7	37	WSW	2	bc	985.9	+3	34	-7	-	0	-	S		3	43	32					
Petrograd (G.M.T.)																						
FRANCE, &c.																						
The Helder ...	1002.6	43	NW	4	c	1005.3	+2	36	-5	SSW	1	-	o	3	18	43	36					
C. Gris Nez ...	1006.6	40	NW	4	b	1010.6	0	39	-1	NW	4		b	2	-	46	37					
La Hève ...	1008.8	43	NW	2	c	1011.9		39	0	SW	4		o	4	5	46	36					
Ushant ...																						
Brest (St. Mathieu)	1013.5	48	NNW	4	c	1018.1	0	43	-7	E	2		c	3	3	54	41					
Rochefort (Ile d'Aix)	1011.9	47	W	6	r	1015.7	0	40	-12	NE	3		m		10	52	39					
Biarritz ...	1017.5	53	WSW	5	r	1017.1	-1	52	+1	SW	3		r		15	54	50					
Paris																						
Belfort ...	1010.1	36	SW	1	b	1013.5	+1	28	-11	SSW	1	-	o		1	41	28					
Lyons ...	1009.7	34	WSW	7	o	1015.5		30	-4	-	0		b		6	39	30					
Nice ...	1012.4	39	SE	1	bc	1016.3		35	0	N	2		o		8	45	32					
Perpignan ...	1007.7	46	W	4	c	1007.7	-1	44	-3	W	6		b	6	-	59	43					
Sanguinaire ...	1015.8	48	NW	2	o	1016.7	0	50	+2	WNW	4	NW	c		Trace	57	46					
SOUTHERN EUROPE.																						
Corunna (7 a.m.)	1024.3	54	SW	4	r	1020.4	-4	57	+7	SW	6	-	r	5	13	57	50					
Madrid (8 a.m.)																						
Lisbon (9 a.m.)																						
Gibraltar ...	1024.0	56	W	4	b	1023.0		52	-	W	4		b	1	-	64	48					
Rome ...																						
Malta (8 a.m.)						1019.8	+1	61	-2	W	5	-	o	2	-	64	57					
Azores (Horta, 8 a.m.)																						
Madeira (Funchal)	1023.7	64	E	3	c	1024.7	0	57	-2	?	?	-	o	?	-	70	57					

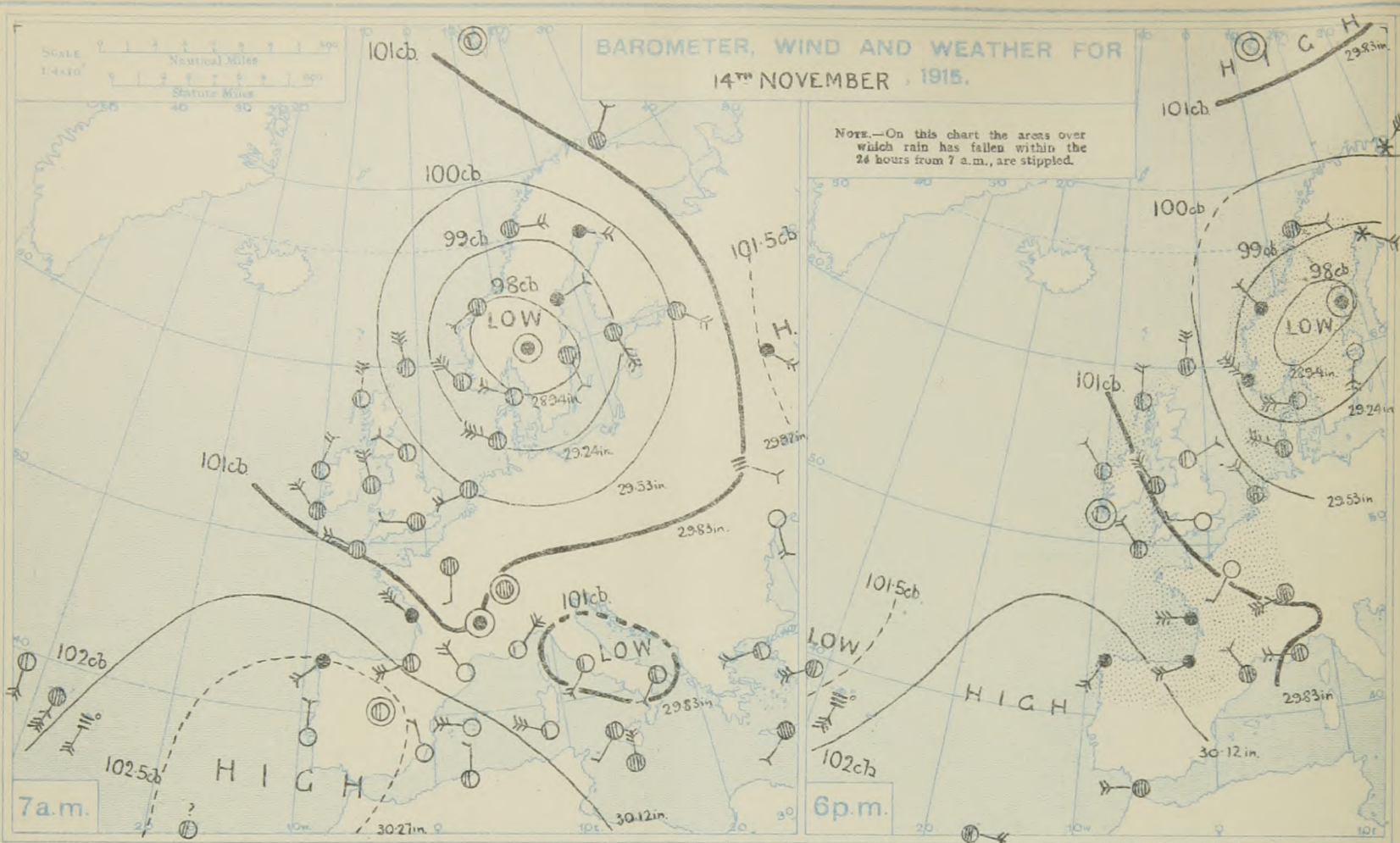
South Farnborough:— 7 a.m.

Aberdeen:— 8 a.m.

Pilot Balloon Ascent:

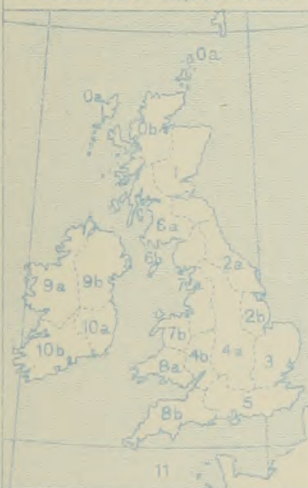
Pilot Balloon Ascent:





FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay 11

- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | Wind between North and West, mostly light but temporarily moderate to strong and squally locally; |
| 1  | b |   |   |
| 2  | a | } | generally fair to fine, but some hail or snow; cold.  |
| 3  | b |   |   |
| 4  | a | } | Light Westerly and South-Westerly breezes; generally fair to fine, some mist; cold.               |
| 5  | b |   |   |
| 6  | a | } | Same as Nos 0 to 2.   |
| 7  | b |   |   |
| 8  | a | } | Light variable breezes; fair or fine to cloudy, some mist; cold.                                  |
| 9  | b |   |   |
| 10 | a | } | Same as Nos 0 to 2.   |
| 11 | b |   |   |
| 12 | a | } | Same as No 8.   |
| 13 | b |   |   |
| 14 | a | } | Variable winds; sea slight to rather rough; cloudy, some rain; cold.                              |
| 15 | b |   |   |

FURTHER OUTLOOK.

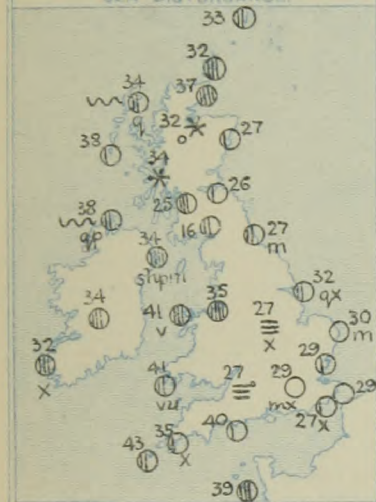


# SYNOPTIC CHART FOR 7 a.m., MONDAY, 15<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

Another depression is indicated on the Atlantic, but its future movements are uncertain.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**WIND.**—Direction is shown by arrows flying with the wind.

Force, on the scale 0-12, is indicated by the number of feathers. Calm.

**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

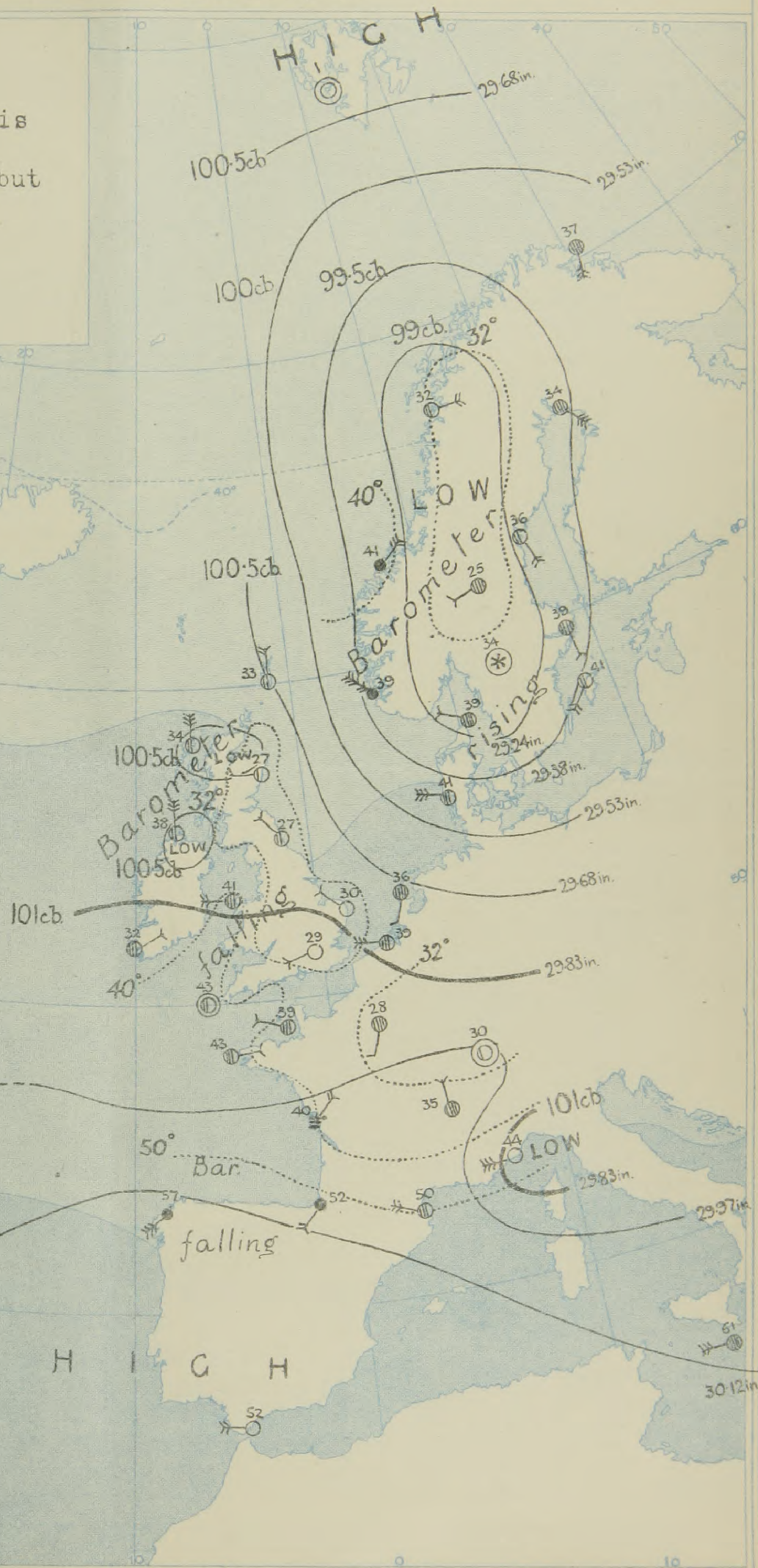
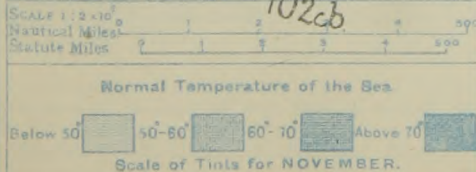
○ clear sky. ○ sky & clouded. ○ sky & clouded. ○ sky & clouded. ○ overcast sky. ○ rain falling. \* snow. ▲ hail. ≡ fog. ≡ mist. T. thunder. T, thunderstorm.

**SEA DISTURBANCE.**—Rough. High.

Inches.  
31

30

29





## DAILY WEATHER REPORT.

Monday, 15th November, 1915.

PILOT BALLOON ASCENTS for the PAST WEEK.  
Component Velocities to East and to North in Metres per Second.

Station Date & Hour.	Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.	
	S. Farnborough Nov. 8th 11.42am	S. Farnborough 9th 7.20am	S. Farnborough 10th 7.22am	Benson 10th 11h 55m	S. Farnborough 11th 7.40am	Eskdalemuir 11th 1pm	S. Farnborough 11th 3.51pm	Eskdalemuir 12th 4pm												
Heights in Kilometres.	3			+10	-8															
	2	+7	-4		+14	-10			+14	-5	+7	-7	+8	+10						
	1	+8	-4	+11	+22	+16	-11	+20	-6	+11	-5	+1	-4	+6	+7	+5	-9			
	.5	+7	-1	+14	+10	+18	-7	+11	-1	+13	-3	+4	-3	+2	+8	+6	-6			
	0	+3	0	+3	+7	+6	+1	+8	0	+5	+1	+4	-3	0	+2	+4	-4			

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm. & .	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. & .	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.							Tunbridge Wells ...						
Oban ...		42	28	bc	bc	44	Margate ...		41	36	bc	bc	49
Banff ...	3	40	34	bc	bc	0.1	Ramsgate ...		44	32	bc	bc	58
Carnoustie ...							Hastings ...		43	33	bc	bc	69
St. Andrews ...							Bexhill-on-Sea ...						
Eng. N.E.							Eastbourne ...	0.3	44	35	bc	bc	73
Harrogate ...		37	26	bc	bc	56	Seaford ...						
Skegness ...		40	30	bc	bc	60	Brighton ...		44	35	bc	bc	70
Eng. N.W.							Worthing ...		45	33	bc	bc	77
Morecambe ...							Littlehampton ...		46	35	bc	bc	77
Blackpool ...	13	42	28	bc	bc	57	Bognor ...		44	33	bc	bc	77
Southport ...	2	42	30	bc	bc	60	Southsea ...		44	35	bc	bc	80
Midlands.							Bournemouth ...	2	43	33	bc	bc	81
Buxton ...		41	29	bc	bc	47	Weymouth ...	2	43	34	bc	bc	15
Leamington Spa ...		42	32	bc	bc	60	Torquay ...	1	45	35	bc	bc	28
Malvern ...		40	27	bc	bc	60	Paignton ...						
Ross-on-Wye ...							Falmouth ...	9	46	38	bc	bc	22
Wales.							Penzance ...						
Rhyl ...	3	43	32	bc	bc	41	Newquay ...						
Colwyn Bay ...	7	43	35	bc	bc	30	Ilfracombe ...						
Llandudno ...							Weston-super-Mare ...		49	37	bc	bc	42
Aberystwyth ...	4	44	30	bc	bc	15							
Tenby ...													
England, E.													
Cromer ...		40	33	bc	bc	61							
Lowestoft ...		40	32	bc	bc	65							
Felixstowe ...		42	32	bc	bc	60							
Walton-on-Naze ...													
Southend-on-Sea ...													

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		Max.	Min.	Min. on Grass.		Fore- noon.	After- noon.	Night.
Greenwich (Royal Obs.) ...	64	92	37	40	28	21		bc	bc	bc
City (Bunhill Row) ...	*	*	42	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	59	92	42	46	27	24		bc	bc	bc
Camden Sq. (Brit. Rainfall)	*	84	51	43	27	25		bc	bc	bc
Hampstead (Reservoir) ...	*	94	62	42	26	11		bc	bc	bc
Richmond Park ...	*	*	63							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	61	91	51	395	Joules	12.3 Milliwatts.		23 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.		WEATHER.		Sun- shine for Yester- day.
		Max.	Min.	Night	Fore- noon.	
Dublin to 4 p.m.		37	31	27	bc	bc
Darwen to 9 p.m.					bc	bc
Manchester "		40	31	24	bc	bc
Birmingham "					bc	bc
Oxford to 8 p.m.					bc	bc
Teignmouth to 9 "	4	49	38	32	bc	bc
Plymouth "					bc	bc
S. Kensington (Museum Grounds to 8 p.m.)		42	33	25	bc	bc

## NOTES ON YESTERDAY'S WEATHER.

Low temperatures were general, and night frost occurred at nearly all stations, Eskdalemuir registering a shade minimum of 15°. Rain, hail and snow fell in the west and north, 10 millimetres at Castlebay. There was much sunshine in most districts.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 320.

Tuesday,  
16<sup>th</sup> November, 1915.

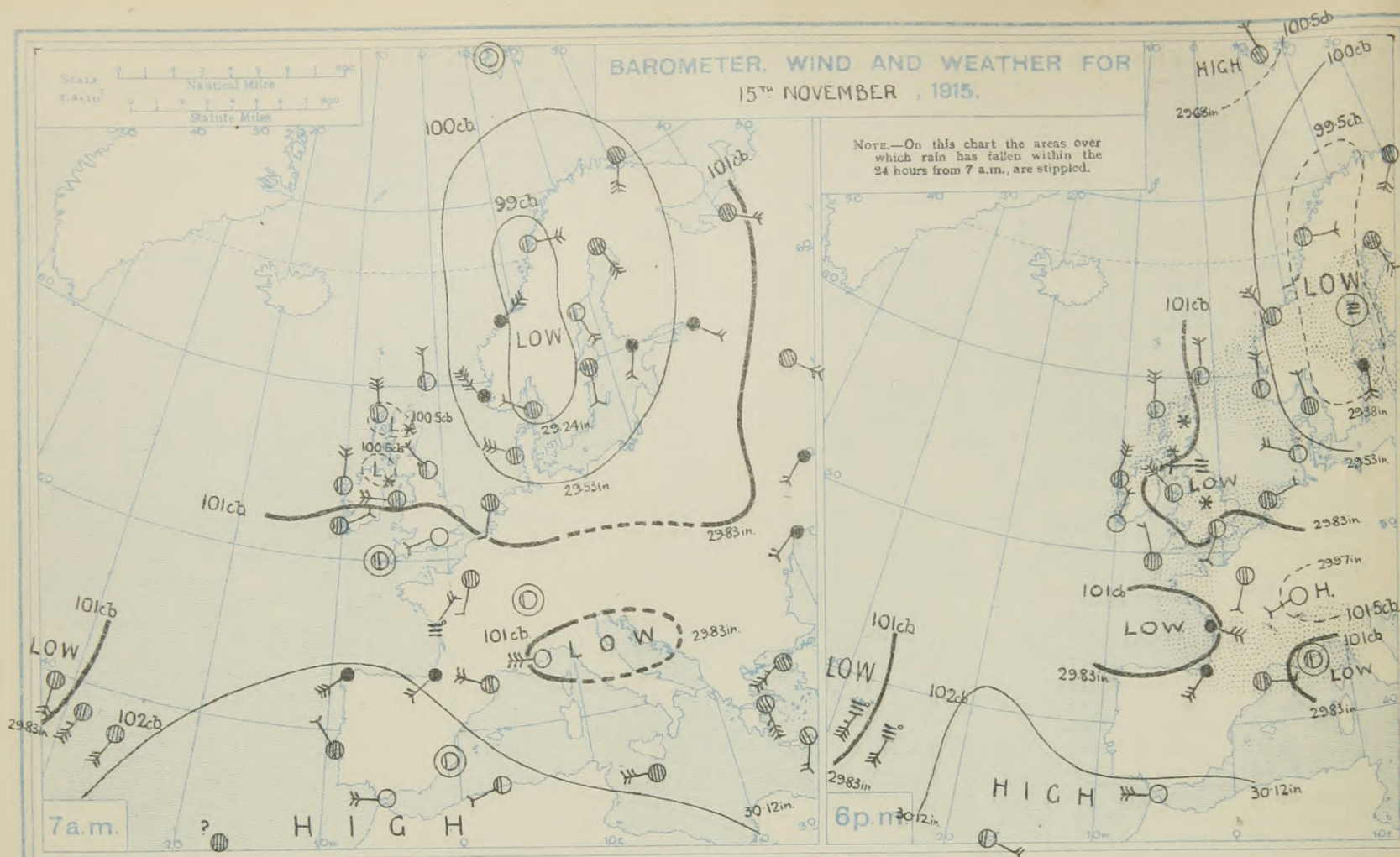
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.						Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.				Dry Bulb. °F.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick ...	1009.8	35	N	4	bc	1018.7	+4	35	+2	N	3	N	bc	3	38	32	bc	bcsp	bcsp	Hours.	
	Deerness ...	1011.2	35	N	4	bc	1020.3	+	39	+7	NNW	4	N	bc	3	39	34	c. bc	bcps	bcps	1.6	
	Stornoway ...	1013.6	34	N	5	bc	1024.0	+4	33	-1	N	2	-	c	2	37	30	bcq	bcpsq	bc.cps	3.2	
	Castlebay (Barra Isd.)	1013.6	39	NNW	3	b	1023.9	+3	38	+	NNE	3	-	b	3	40	35	b	b	b	5.7	
	Glasgow ...	1010.7	31	NE	1	s	1023.1	+6	23	-2	WSW	1	-	m	+	5	32	18	ok. o	sm	c. bcq	0.0
	Eskdalemuir ...	1010.0	28	NE	3	o	1021.8	+4	26	+10	-	0	-	m	+	3	31	15	bc, os	os. o	oc. bc	0.0
	Malin Head ...	1010.9	40	N	6	bcq	1021.9	+5	40	+2	NE	3	N	bcq	3	42	37	bcqps	bcqps	bcq	3.7	
	Blacksod Point ...	1014.0	42	NNE	6	c																
	Valencia ...	1014.9	40	NNE	2	b	1023.2	+4	36	+4	E	1	-	bx	3	46	32	c	c. b	b. bx	2.9	
	Roche's Point ...	1014.1	40	NNW	3	b	1022.4	+	34	0	N	2	-	b	2	45	34	bc	bc. b	bx		
	Birr Castle ...	1012.4	36	W	1	c	1023.3	+	24	-10	E	1	-	b	3	41	23	c	c	b	5.8	
	Donaghadee ...	1008.9	36	NW	5	bcqph	1021.9	+6	38	+4	NE	3	NE	bcu	3	42	33	bcuq	bcqph	bcqph		
	Liverpool (Bidston)	1006.9	39	WNW	4	o	1020.1	+6	33	-2	NNE	2	-	b	2	41	32	bcu	bcu	bcu	0.9	
	Holyhead ...	1008.3	44	WNW	6	bcq	1019.5	+6	42	+1	NE	5	-	bc	5	44	38	cqmp	bcq	cq. h. bc	1.7	
	Pembroke (St. Ann's)	1010.4	42	N	3	bcq	1019.1	+5	36	-3	NE	4	-	bcq	4	47	37	bcq	bcq	bcq	3.0	
	Scilly (St. Mary's)	1010.9	43	NNW	1	op	1017.2	+2	43	0	N	5	N	bcu	4	49	41	c. v	op	o. c. bc	0.9	
	Falmouth ...	1011.4	41	N	2	oe	1017.0	+4	39	+4	NNW	3	-	o	3	49	34	c. bc. c	c. o	op	2.5	
	Jersey (St. Aubin)	1011.6	44	N	3	ogp	1013.6	+	42	+3	NW	3	NW	c	1	49	38	c. b	og	oph. bp	2.7	
	Portland Bill ...	1010.0	48	WSW	4	c	1014.1	+4	37	-3	NNE	5	N	o	3	48	35	bc	bc	cr. o		
	Dungeness ...	1010.3	38	WSW	2	bc	1011.0	+1	37	+10	ESE	6	-	r	6	44	27	bz	bc	bc. f. sm		
	Dover ...	1011.0	33	W	1	b	1014.9	+5	35	+6	E	4	E	o	6	43	29	x. b	bxz	b. o. esr	7.0	
	Wick ...	1011.5	37	N	3	c	1020.8	+4	38	+1	NNW	3	-	bc	3	39	30	ogms	cps	phsbc		
	Nairn ...	1012.0	33	NNE	1	s	1022.4	+	30	-1	-	0	-	bc	2	36	29	b. c. c	cu	b. c	1.0	
	Aberdeen ...	1010.8	32	WNW	3	oz	1020.2	+4	34	+7	NW	4	-	bc	3	34	27	bz. bcz	bc. cz	o. b. osp	0.2	
	Leith ...	1009.5	36	ENE	1	c	1021.9	+4	31	+6	WSW	1	-	b	1	37	25	o. c. bc	os. c	om. c		
Tynemouth ...	1008.5	34	W	1	f	1018.6	+5	34	+7	NW	2	-	bm	4	36	26	cu	f	bcps			
Spurn Head ...	1009.7	37	SSW	4	o	1016.2	+6	40	+8	NNE	4	-	bcqph	5	41	30	bcu	c. om	op	4.4		
Yarmouth ...	1009.6	34	NW	2	b	1013.8	+4	41	+11	NE	3	NE	bc	3	41	27	bcu	bcu	bcu	7.3		
Clacton-on-Sea ...	1010.4	37	W	2	b	1013.3	+5	35	+6	NW	3	N	o	1	41	28	b	b	bc. os	6.0		
Nottingham ...	1007.7	33	SW	2	s	1017.5	+	33	+6	NNE	3	N	b	6	39	24	f. m. c. o	os	so	0.8		
Bath ...	1009.6	37	W	1	c	1016.3	+	35	+8	NE	4	NE	o	3	44	25	m. bc. c	bc. c. o	or. bc. b	4.2		
St. Farnborough ...	1009.6	38	S	3	c	1014.2	+7	33	+7	N	3	-	s	3	44	25	b	b. bc. c	or. os	5.5		
London (Kew Obsy.)	1010.2	36	SSW	2	bcx	1015.2	+7	34	+5	NE	3	-	oms	3	41	28	bm. x. bm	bm. om. bcu	bcu. x. oms	5.2		
NORTHERN EUROPE.	Spitsbergen ...	1006.3	10	NNW	2	c	1006.0	0	7	+6	S	2	-	o	2	18	0					
	Vardö ...	997.6	36	SSW	4	c	997.7	+1	34	+3	SSW	1	-	o	2	37	30					
	Bodö ...	994.0	34	E	2	c	1001.1	+5	37	+5	N	4	-	c	2	34	30					
	Christiansund ...	999.9	41	NW	4	c	1008.4	+3	39	-2	NW	4	-	r	3	41	36					
	Skudesnaes ...	1002.3	36	N	3	bc	1009.2	+3	37	-2	N	4	-	b	2	3	41	36				
	Færder (X'ianla Fjord)	996.4	39	W	2	c	1003.9	+4	39	+3	WNW	2	-	c	1	Trace	39	36				
	The Scaw (Skagen)	996.8	41	NNW	2	o	1004.0	+4	39	0	NNE	2	-	b	3	43	32					
	Blaavands Huk ...	1002.1	41	WNW	3	b	1008.0	+2	43	+2	NW	4	-	c	3	43	36					
	Haparanda ...	997.3	34	SSE	4	o	1003.0	+3	34	0	S	4	-	o	2	34	34					
	Hernösand ...	993.0	36	-	0	f	997.7	+3	34	-2	-	0	-	o	2	37	34					
FRANCE, &c.	Stockholm ...	992.3	37	S	4	r	999.5	+3	36	-3	SSW	2	-	o	2	41	34					
	Wisby ...	998.9	41	SW	6	bc	1003.3	+5	39	-2	WSW	2	-	o	2	43	37					
	Karlstad ...	993.2	32	-	0	o	1001.7	+4	32	-2	-	0	-	c	2	36	28					
	Petrograd (6 a.m. G.M.T.)																					
	The Helder ...	1008.2	37	ENE	1	o	1012.7	+2	37	+1	NNE	2	-	r	3	41	34					
	C. Gris Nez ...	1011.0	41	SW	2	b	1012.2	+5	33	-6	E	1	-	s	2	9	41	32				
	La Hève ...	1011.9	41	SSE	1	c	1011.3	+	42	+3	N	3	-	o	4	46	37					
	Ushant ...																					
	Brest (St. Mathieu)	1011.5	44	ESE	2	r	1015.7	+2	46	+3	N	4	-	c	3	50	43					
	Rochefort (Ile d'Aix)																					
SOUTHERN EUROPE.	Biarritz ...	1012.6	57	SW	5	r	1018.5	0	58	+6	W	5	-	r	4	58	52					
	Paris ...	1015.1	36	SSW	2	o	1012.7	+1	36	+8	SSW	1	-	o	2	41	28					
	Belfort ...	1015.5	32	WSW	2	b	1015.1	+	25	-5	-	0	-	b	2	39	23					
	Lyons ...	1016.6	34	ESE	1	o	1013.0	+	35	0	-	0	-	f	2	45	34					
	Nice ...	1009.6	44	-	0	bc	1005.3	-2	41	-3	-	0	-	o	3	52	37					
	Perpignan ...	1014.0	50	E	1	o	1008.6	-2	59	+9	NW	5	NW	b	4	59	46					
	Sanguinaire ...	*	54	N	5	c	*	+	59	-	W	5	-	o	5	57	52					
	Corunna (7 a.m.)																					
	Madrid (8 a.m.)																					
	Lisbon (9 a.m.)																					
SOUTHERN EUROPE.	Gibraltar ...	1022.3	58	W	5	b	1020.6	+	55	+3	W	5	-	b	3	65	50					
	Rome ...																					
	Malta (8 a.m.)	*	*	*	*	*	1020.2	0	61	0	SW	2	SW	bc	1	66	59					
	Azores (Horta, 8 a.m.)	1008.8	*	SSW	7	m	1010.7	+2	57	-8	W	7	-	bc	6	66	54					
	Madeira (Funchal)	1021.9	64	ESE	3	bc	1020.4	0	61	+4	ESE	2	N	o	2	68	57					

## RAINFALL.

Equivalents of Millimetres,  
in Inches.

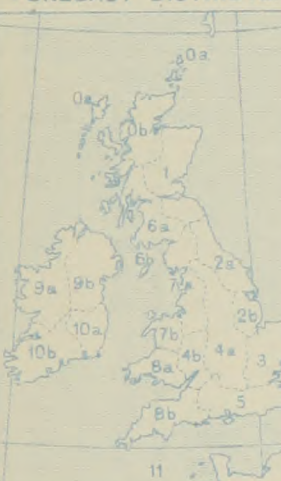
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61





**FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay

- |    |        |   |  |
|----|--------|---|--|
| 0  | a<br>b | } | Moderate or fresh Northerly winds; some showers of rain or sleet, but mostly fair; cold. |
| 1  |        |   |  |
| 2  | a<br>b |   |  |
| 3  |        | } | Strong North-Easterly winds, moderating; sleet showers, improving later; cold.           |
| 4  | a<br>b |   |  |
| 5  |        |   |  |
| 6  | a<br>b | } | Moderate Northerly winds; mostly fair.   |
| 7  | a<br>b |   |  |
| 8  | a<br>b |   |  |
| 9  | a<br>b | } | Moderate or fresh Northerly winds; mostly fair, occasional showers; cold.                |
| 10 | a<br>b |   |  |
| 11 |        |   |  |
| 11 |        | } | Moderate or light Northerly winds; fair generally; cold.                                 |
|    |        |   |  |
|    |        |   |  |
|    |        | } | Fresh Northerly winds; moderate to rather rough sea; showery.                            |
|    |        |   |  |
|    |        |   |  |

**FURTHER OUTLOOK.**

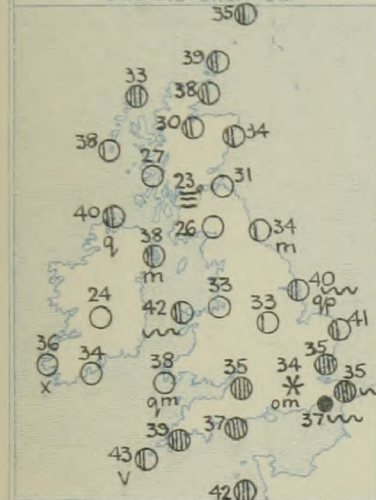


# SYNOPTIC CHART FOR 7 a.m., TUESDAY, 16<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

The anticyclone in the west will spread eastward and produce a general improvement, but small irregularities of pressure will give rise to showers of rain or snow at first.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



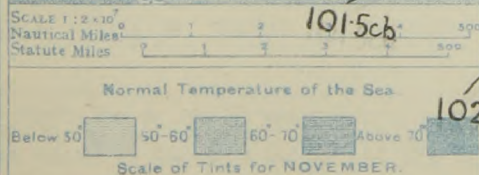
### EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm  
**TEMPERATURE.**—Given in degrees Fahrenheit.  
 Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.  
 ○ sky 1/2 clouded. ○ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 T, thunderstorm.  
**SEA DISTURBANCE.**—Rough ~~~. High ~~~.

Inches.  
31

30

29



LOW

101.5cb

102cb

29.97in

30.12in

H I G H

Barometer

rising

generally

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## DAILY WEATHER REPORT.

Tuesday, 16th November, 1915.

REPORTS  FOR  YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain- fall. Milli- metres.		TEMP. Max. Min.	
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.					
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.								
																°F.	°F.			
	Roche's Point	1014.2	41	NW	2	b	1012.8	2	34	-4	N	1	-	b	2	0.4	45	33		
	Blacksod	10120	37	NW	2	bc	10087	-1	39	0	N	4	N	bcyp	3	3	50	36		
	Petrograd	10030	39	SE	4	o	10013	-3	37	0	N	3	-	r	4	6	43	37		
	Lisbon	10264	54	N	4	bc	10261	0	54	+6	NW	2	-	o	5	-	59	52		
15th November, 1915.																				

15th November, 1915.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.							Tunbridge Wells ...						
Oban ...	-	41	26	b	b	4.5	Margate ...	-	41	35	b	b	7.5
Banff ...	-	38	26	bc	bc	1.8	Ramsgate ...	-	42	27	bc	bc	5.5
Carnoustie ...	-						Hastings ...	-	45	30	b	b. bc	8.2
St. Andrews ...	-	36	22	*	*	1.1	Bexhill-on-Sea ...	-					
England, N.E.							Eastbourne ...	-	45	31	bc	bc	8.0
Harrogate ...	5	34	23	bc. c. o	o. s	0.3	Seaford ...	-	44	28	bc	bc	6.8
Skegness ...	1	40	23	b. bc	bc. r	5.0	Brighton ...	-	45	31	bc. bc. c	bc	7.1
England, N.W.							Worthing ...	-	44	27	bc	bc. c	7.4
Morecambe ...	8	35	20	o. s	s. o	0.0	Littlehampton ...	-	49	32	bc	bc	6.5
Blackpool ...	7	35	24	o. m. s	o. c	0.5	Bognor ...	0.3	45	29	bc	bc. c	7.1
Southport ...	12	39	26	o. f. s	g. h. bc. c	0.1	Southsea ...	-	46	30	bc	bc	7.1
Midlands.							Bournemouth ...	-	47	29	bc	bc	5.5
Buxton ...		44	25	b. bc	bc. or	4.0	Weymouth ...	1	52	32	bc	bc. o	6.5
Leamington Spa ...	3	44	25	b. bc	bc. or	4.0	Torquay ...	-	49	31	bc	bc. bc	6.4
Malvern ...	3	43	28	b	c. or	4.0	Paignton ...	-	50	28	bc	bc. m. p	6.4
Ross-on-Wye ...	0.4	42	22	b. m	bc. op	3.6	Falmouth ...	-	49	35	bc. c	c. o	2.5
Wales.							Penzance ...	1	50	34	bc	bc	2.4
Rhyl ...	4	43	30	bc. p	bc. p	1.5	Newquay ...	-					
Colwyn Bay ...	3	43	35	bc. p	bc. p	1.4	Ilfracombe ...	-					
Llandudno ...							Weston-super-Mare ...	3	?	29	bc	bc	2.5
Aberystwyth ...	3	45	33	r. o. c	c. b. o	3.7							
Tenby ...	3	47	27	bc. c. op	bc. c. o	2.7							
England, S.													
Cromer ...	-	40	27	b	b. bc. b	7.5							
Lowestoft ...	-	40	29	bc	bc	7.4							
Felixstowe ...	-	39	28	bc	bc	6.7							
Walton-on-Naze ...	-	44	29	bc	bc	5.2							
Southend-on-Sea ...	-												

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obsy.) ...	%	%	Hr.	° F.	° F.	° F.	mm.‡			
City (Bunhill Row) ...	65	90	4.5	42	31	26	5	b. bc	b. bc	ovs
Westminster (St. James's Pk.)	*	*	1.6	*	*	*	*	*	*	*
Camden Sq. (Brit. Rainfall)	69	87	2.8	43	30	27	7	m	m	sr. m
Hampstead (Reservoir) ...	69	93	3.4	41	31	29	5	b. bc	bc	*
Richmond Park ...	*	97	6.1	41	28	18	4	bc. o	o c	cx. s. bc
Kew. (See front page.)	*	*	5.3	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	67	89	4.4	Total.		Average Rate.		Max. Rate.		
				370 Joules		11.6 Milliwatts.		21 Milliwatts.		

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

16th-17th November, 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.17	11.28	3.59
Greenwich ...	7.23	11.45	3.52
Wick ...	8.5	11.57	3.47
Valencia ...	8.4	12.26	4.48

## NOTES ON YESTERDAY'S WEATHER.

Low temperatures were general, many maxima below 40°, Eskdalemuir only 31°. Rain, hail and snow fell nearly everywhere, 19 mm. at Dover. Sunshine varied greatly, from none in places to over eight hours at Hastings.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at M.O. and at the bookstalls at certain Railway Termini in London.

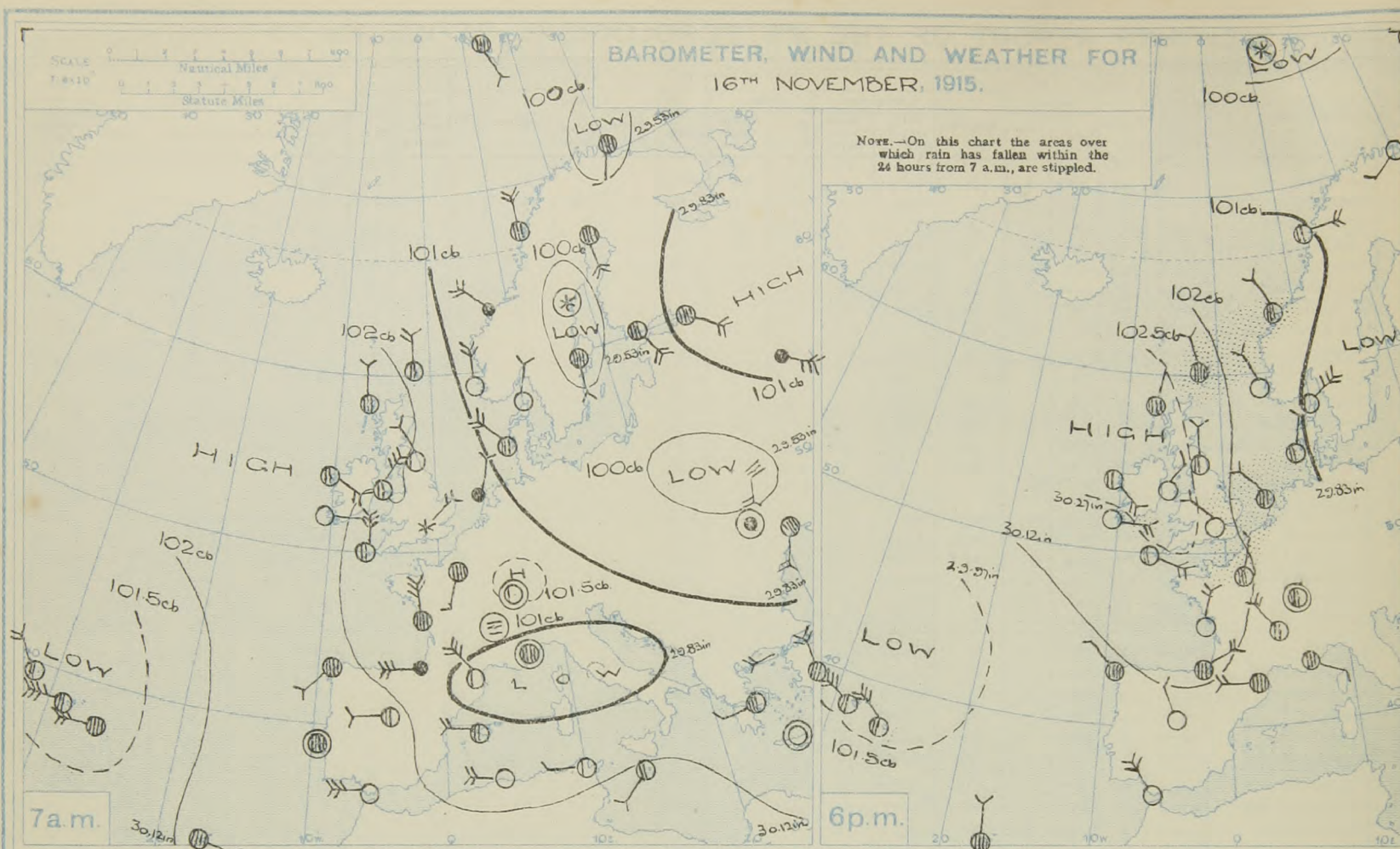


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 321.

Wednesday,  
17th November, 1915.

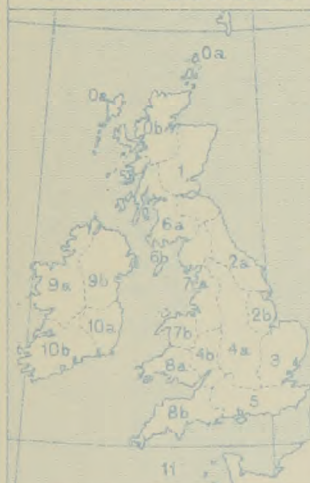
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.																					
Lerwick ...	1022.5	37	NNW	2	0	1023.0	0	39	+4	NNW	1	-	b	1	0.2	40	35	bc o	o	bc b	Hours.
Deerness ...	1024.4	36	W	2	c	1024.7	0	40	+1	WNW	4	NW	c	2	2	41	38	bc o	op c	bc c	0.0
Stornoway ...	1027.5	37	N	1	0	1027.7	0	36	+3	NW	1	-	c	1	-	41	32	bc o	o	bc c	2.3
Castlebay (Barra Is.)	1027.3	41	N	2	0	1027.1	0	42	+4	E	2	E	o	2	-	44	36	b	b o bc o	o b o	5.1
Glasgow ...	1027.7	29	WNW	1	b	1028.4	+1	19	-4	ESE	1	N	b	0	-	34	18	f. bf	bf bz	bf	3.1
Esksdalemuir ...	1027.5	29	NNW	1	bz	1029.2	0	16	-0	-	0	-	bx	0	-	37	12	b. bv	bv bz	bz bx	7.4
Malin Head ...	1026.7	40	NE	1	bv	1027.2	0	32	-8	S	2	-	bx	2	-	44	31	bcv	bcv	bx	7.7
Blacksod Point ...	1025.4	36	SE	3	bc													bc	bc		*
Valencia ...	1024.2	42	E	3	b	1021.9	0	46	+10	SE	4	-	b	3	-	46	33	b	b	bc c b	6.4
ROCHE'S POINT.																					
Roches Point ...	1026.0	46	E	4	c	1025.2	0	47	+13	ESE	5	-	o	5	0.2	47	33	b	b. bc c	c o	*
Birr Castle ...	1027.2	32	E	1	b	1026.6	0	24	0	-	0	-	b	0	-	40	23	b	b	bp	6.0
Donaghadee ...	1026.9	38	NW	3	bcu	1027.3	+1	33	-5	W	2	-	bm x	2	-	44	32	bcu	bcu	bcu x	*
Liverpool (Bidston) ...	1026.5	37	NNW	1	b	1027.8	0	32	-1	N	1	-	bm	1	-	39	32	b	b	bm x	7.3
Holyhead ...	1026.3	42	NE	1	b	1026.9	+1	33	-9	SE	1	-	bz	0	-	46	32	bc b	b. bc b	b. bc b	7.3
Pembroke (St. Ann's) ...	1026.2	38	NE	3	b	1027.0	-1	32	-6	NNE	2	-	b	1	3	43	31	b	b	bw	7.3
SCILLY (St. Mary's).																					
Scilly (St. Mary's) ...	1023.8	45	ESE	4	bcu	1024.1	-1	45	+2	SSE	5	SE	bc	5	-	48	40	bcu	bcu	bc	4.4
Falmouth ...	1025.6	42	W	2	bcz	1026.0	+1	44	+6	ESE	2	-	bc	3	-	44	36	o. bc o	o. bc bc	bc	4.6
Jersey (St. Aubin) ...	1022.5	44	ENE	4	b	1025.8	-	31	-11	ENE	3	-	bm	2	1	46	30	bc. op	op b	bm x	5.0
Portland Bill ...	1024.4	40	NE	2	b	1026.0	-1	36	-1	NE	2	-	bm	3	-	45	35	bc	bc b	bm	*
Dungeness ...	1022.5	33	NNW	2	b	1023.3	0	29	-8	N	3	N	cxz	3	-	43	29	o. q. c	c. bc b	b. bc xz	*
Dover ...	1022.0	34	NW	4	b	1022.0	+1	39	+4	NW	5	NW	c	3	2	42	31	o. hr bc	bc b	bx. bc	4.6
WICK.																					
Wick ...	1025.2	36	NNW	2	S	1025.5	0	35	-3	WNW	2	-	bc	3	5	40	33	bc	bc. om	om p. bc	*
Nairn ...	1026.6	33	WNW	1	og	1027.3	0	31	+1	-	0	-	b	1	-	33	28	bc	bc c	c. bc	3.8
Aberdeen ...	1025.4	36	WNW	4	o	1025.7	+1	37	+3	WNW	5	-	bc	3	-	37	32	bc b	bc. o	bc. bc	5.4
Leith ...	1028.5	33	W	1	b	1028.5	+1	30	-1	W	1	W	b	0	-	39	27	bc. cu	b	b	*
Tynemouth ...	1024.5	36	NNW	2	bcu	1025.4	0	30	-4	NW	2	-	bm	4	3	40	30	bcu	bcu	bm	*
Spurn Head ...	1022.3	39	N	5	ogp	1024.3	0	35	-5	N	5	-	bcg	5	1	40	34	bcu	ogp	bcg p	4.3
YARMOUTH.																					
Yarmouth ...	1019.1	38	NNW	2	bc	1021.9	0	35	-6	NW	4	NW	bcu p	3	5	46	35	bcu	bcu	bcu	6.0
Clacton-on-Sea ...	1022.0	35	WNW	3	bc	1024.0	0	32	-3	WNW	3	N	c	2	-	45	31	o. bc	bc	bc. cx	5.5
Nottingham ...	1024.5	37	NNW	3	c	1026.2	0	26	-7	W	2	-	bm	0	-	41	25	bm	bm. c	cu b	4.7
Bath ...	1025.3	32	W	1	m	1027.4	0	24	-11	W	1	-	m	0	-	45	23	o. m b	bm	bm	6.9
Sth Farnborough ...	1024.3	33	NW	1	b	1026.7	0	26	-7	W	1	N	bx	0	1	42	25	S. bc b	b	bx	6.3
London (Kew Obsy.) ...	1024.7	37	WNW	2	bm	1026.7	0	29	-5	W	1	-	bm x	0	2	43	29	o. m. b	bm	bm. bx	6.0
NORTHERN EUROPE.																					
Spitsbergen ...	999.8	16	-	0	S	1001.0	0	-9	-16	-	0	-	b	0	*	16	-11				
Vardö ...	1008.7	30	SW	1	b	1013.2	0	26	-6	-	0	-	b	2	*	34	28				
Bodö ...	1004.5	36	E	4	bc	1014.3	0	30	-7	E	2	-	b	2	-	37	28				
Christiansund ...	1015.8	36	NNW	2	c	1018.6	+1	36	-3	-	0	-	b	3	6	39	36				
Skudesnaes ...	1015.7	36	NNW	2	b	1019.4	+1	36	-1	N	1	-	c	1	-	39	32				
Færder (X'ania Fjord) ...	1011.7	37	N	4	b	1016.4	+4	34	-5	NNW	5	-	b	2	-	41	32				
The Scaw (Skagen) ...	1009.9	41	NE	5	b	1015.8	+3	37	-2	NNE	4	N	bc	4	-	45	36				
Blaavands Huk ...	1011.5	37	NNE	1	bc	1016.7	+2	30	-13	N	2	-	c	3	Trace	43	30				
FRANCE, &c.																					
Haparanda ...														*							
Hernösand ...														*							
Stockholm ...														*							
Wisby ...														*							
Karlstad ...														*							
Petrograd (5 a.m. G.M.T.)														*							
The Helder ...	1015.9	41	NW	2	c	1017.7	0	39	+2	NNW	4	-	c	3	6	45	36				
C. Gris Nez ...	1021.1	41	NW	5	b	1023.7	0	39	+6	NNW	6	-	o	5	-	43	39				
La Hève ...	1024.4	39	NE	3	c	1025.0	0	46	+4	N	3	-	c	3	3	45	36				
Ushant ...														*							
Brest (St. Mathieu) ...	1024.8	41	NE	2	b	1025.7	0	39	-7	ESE	3	-	b	5	-	50	37				
Roche fort (Ile d'Aix) ...	1021.9	43	NNE	3	b	1025.1	0	33	-10	E	4	-	b	0	-	50	32				
Biarritz ...	1020.6	50	NE	3	o	1021.2	0	38	-20	ENE	3	-	o	2	15	57	37				
Paris ...	1022.3	32	N	2	b	1024.3	+1	30	-6	-	0	-	o	0	3	37	28				
Belfort ...	1018.7	3	-	0	c	1023.4	0	28	+3	WSW	4	-	s	0	-	40	28				
Lyons ...	1019.0	35	NW	3	bc	1027.0	0	30	-5	W	1	-	o	0	-	42	29				
Nice ...	1006.0	44	SE	1	c	1018.1	+5	37	-4	NW	2	-	b	2	-	50	34				
Perpignan ...	1017.5	46	W	3	o	1023.7	+3	36	-23	SW	1	-	bc	0	-	61	36				
Sanguinaire ...	*	50	W	6	o	*	0	46	-13	NW	3	-	c	4	-	59	41				
SOUTHERN EUROPE.																					
Corunna (7 a.m.) ...	1020.0	59	NW	1	o	1015.8	-3	54	-5	SE	3	-	o	3	3	61	54				
Madrid (8 a.m.) ...	1017.6	59	NW	1	b	1021.5	+2	41	-5	NNE	1	-	o	0	-	61	41				
Lisbon (9 a.m.) ...																					
Gibraltar ...	1018.6	60	NW	4	b	1019.6	0	55	0	W	3	-	b	2	-	71	53				
Rome ...														*							
Malta (8 a.m.) ...	*	*	*	0	*	1013.5	+2	64	+3	WNW	4	-	b	1	-	68	61				
Azores (Horta, 8 a.m.) ...	1014.4	*	WNW	5	bc	1016.3	+1	62	+7	WSW	6	-	o	6	7	64	57				
Madeira (Funchal) ...	1018.7	64	N	2	o	1017.9	0	61	0	W	2	-	b	2	-	68	61				
RAINFALL.																					
Equivalents of Millimetres in Inches.																					
		mm.	Inches.			mm.	Inches.														
		1	0.04			2															
		2	0.08			27															
		3	0.12			28															
		4	0.16			29															
		5	0.20			30															
		6	0.24			31															
		7	0.28			32															
		8	0.32			33															
		9	0.35			34															
		10	0.39			35															
		11	0.43			36															
		12	0.47			37															
		13	0.51			38															
		14	0.55			39															
		15	0.59			40															
		16	0.63			41															
		17	0.67			42															
		18	0.71			43															
		19	0.75			44															
		South																			





FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Coast.	South Coast.
North Coast.	North Coast.

No Warnings Issued.

Western Channel and Bay 11

- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | Wind light or moderate between North and North-West;                                      |
|    | b |   |   |
| 1  |   | } | fair generally, local mist; cold.   |
| 2  | a |   |   |
|    | b |   |   |
| 3  |   |   | Same as No 5.   |
| 4  | a | } | Light variable airs; mostly fair, but mist or fog locally; cold.                          |
|    | b |   |   |
| 5  |   | } | Light Northerly winds; fair generally, but some mist or fog locally; cold.                |
| 6  | a |   |   |
|    | b |   |   |
| 7  | a | } | Same as No 4.   |
|    | b |   |   |
| 8  | a | } | Wind between East and South-East light or moderate to fresh; fair generally; rather cold. |
|    | b |   |   |
| 9  | a | } | Same as No 4.   |
|    | b |   |   |
| 10 | a | } | Same as No 8.   |
|    | b |   |   |
| 11 |   | } | South-Easterly winds, moderate to fresh; sea moderate to rather rough; fair generally.    |
|    |   |   |   |

FURTHER OUTLOOK.

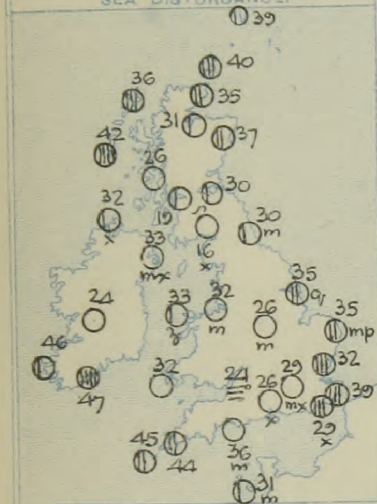


# SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 17<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

There are no indications of any important change in the conditions now prevalent.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**WIND.**—Direction is shown by arrows flying with the wind.

Force, on the scale 0-12, is indicated by the number of feathers. Calm

**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

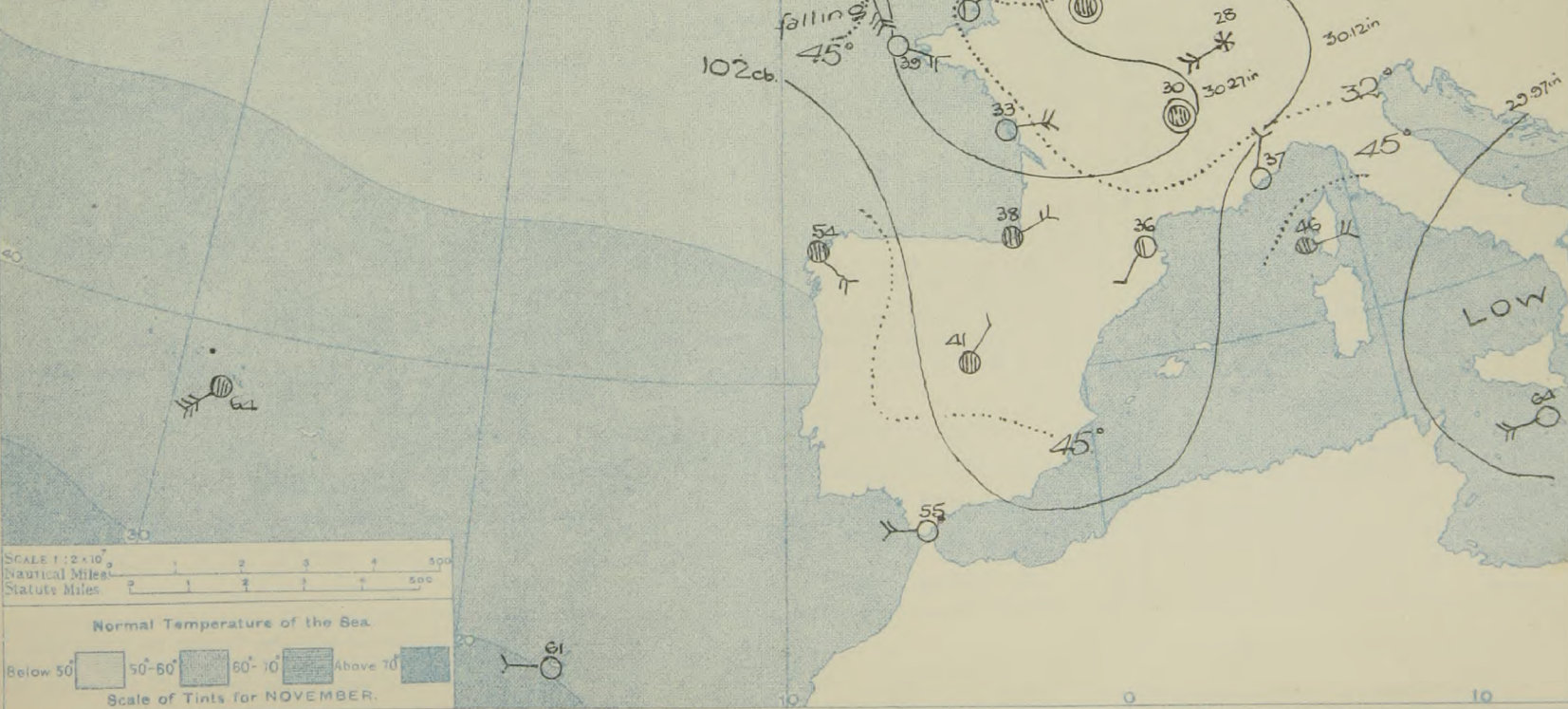
○ clear sky. ○ sky 1/4 clouded. ○ sky 1/2 clouded.

○ sky 3/4 clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough wavy. High wavy.





## DAILY WEATHER REPORT.

Wednesday, 17th November, 1915.

REPORTS  FOR  YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.											
		Barom. Milli- bars at M.S.L.	TEMP.  ° F.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.  ° F.	Change in 24 hours.  ° F.	Direc.	Force 0-12.					Max.	Min.
16th November.	Blackrod Pt.						1022.3	+3	37	-2	ESE	3	SE	bc	3	0.3	43	35
	Petrograd	1009.2	36	SW	3	b	1012.8	0	30	-7	SE	4	-	0	*	5	37	28
	Rochefort	1009.9	44	ESE	5	r	1014.0	+5	43	+3	N	4	#	0	*	7	46	39
	Corunna	1019.4	59	SW	5	r	1020.4	+2	59	+2	SW	2	-	0	4	6	61	57
	Madrid	1022.1	52	WSW	2	c	1022.0	+1	46	-	W	1	-	bc	*	-	54	43
	Lisbon	1025.1	57	NW	2	bc	1022.4	-1	57	+3	-	0	-	0	5	-	61	55

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.		
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.			
	mm.‡	° F.	° F.			Hr.		mm.‡	° F.	° F.			Hr.		
Scotland.	{ Oban ... ..	~	42	25	b	b	6.5	{ Tunbridge Wells ... ..							
	{ Banff ... ..	4	40	29	bc	c. o	2.6		{ Margate ... ..	9	41	33	q	bc	3.7
	{ Carnoustie ... ..								{ Ramsgate ... ..	14	44	32	s. bc	bc	4.7
	{ St. Andrews ... ..				*	*			{ Hastings ... ..	8	42	33	or. bc. b	b	5.8
Eng. N.E.	{ Harrogate ... ..	3	37	26	b	bc	4.3	{ Bexhill-on-Sea ... ..							
	{ Skegness ... ..	1	41	30	bc	bc. c	6.0		{ Eastbourne ... ..	6	43	33	ors. bc	b. bc. b.	5.5
Eng. N.W.	{ Morecambe ... ..	-	37	29	b	b	7.1		{ Seaford ... ..	1	36	33	s. bc	b	6.0
	{ Blackpool ... ..	1	38	27	b	b	7.3		{ Brighton ... ..	3	43	33	bc. c. bc	bc. b.	4.7
	{ Southport ... ..	-	38	29	b	b	7.5		{ Worthing ... ..	2	42	31	bc	bc. b.	4.5
Midlands.	{ Buxton ... ..								{ Littlehampton ... ..	2	45	33	s. bc. b.	b. bc	6.3
	{ Leamington Spa ... ..	1	42	30	b. bc	bc. b.	6.7		{ Bognor ... ..						
	{ Malvern ... ..	-	41	33	b	b	6.3		{ Southsea ... ..	2	44	32	bc	bc	5.1
	{ Ross-on-Wye ... ..	-	43	31	o. bc	bc. b.	5.9		{ Bournemouth ... ..	2	44	33	2.3. b	b.	5.9
Wales.	{ Rhyl ... ..	3	41	31	b	c. bc	7.8		{ Weymouth... ..	-	45	34	c. bc. b	b.3	6.2
	{ Colwyn Bay ... ..	2	42	33	bc	bc	7.8	{ Torquay ... ..		-	45	33	o. c	bc. b.	4.6
	{ Llandudno ... ..							{ Paignton ... ..		0.3	44	33	bc. b	b	3.4
	{ Aberystwyth ... ..	1	43	35	r. c. b.	bc. c.	7.6	{ Falmouth ... ..		1	43	37	o. bc. o	o. c. bc	4.6
	{ Tenby ... ..	-	47	29	b	b	7.5	{ Penzance ... ..		3	44	40	c	c. bc.	5.1
England, E.	{ Cromer ... ..							{ Newquay ... ..	?	43	?	bc	b.	5.8	
	{ Lowestoft ... ..	1	46	28	bc	c. g. h.	5.8		{ Ilfracombe ... ..						
	{ Felixstowe ... ..	1	45	30	bc. m	bc. m	6.4		{ Weston-super-Mare ... ..	-	48	33	b	b.	6.5
	{ Walton-on-Naze ... ..	2	45	30	bc. m	bc	5.6								
	{ Southend-on-Sea ... ..	5	44	32	s. bc. b.	b.3	5.5								

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
				24 HOURS ENDED 9 A.M. TO-DAY.						
				° F.	° F.					
Greenwich (Royal Obsy.) ...	76	80	5.4	41	27	24	-	bm	bm	bm.3
City (Bunhill Row) ...	*	*	4.6	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	76	82	4.8	43	27	24	-	m. b	b	m. b. bc
Camden Sq. (Brit. Rainfall)	84	70	5.4	43	27	26	-	c. b	b	*
Hampstead (Reservoir) ...	*	71	6.2	40	26	12	-	bc. r	br	bx
Richmond Park	*	*	5.3	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Kew. (See front page.)				Total.		Average Rate.		Max. Rate.		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				4.22 Joules		13.3 Milliwatts.		2.4 Milliwatts.		
S. Kensington (Roof of M.O.)	73	82	5.4							

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.	
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.		
		Max.	Min.						
		° F.	° F.						° F.
		Dublin to 4 p.m.	mm. §						° F.
Darwen to 9 p.m.							*		
Manchester							*		
Birmingham "							*		
Oxford to 8 p.m.	*	43	32	23	obs. b	b. fos. b	b. km	*	
Teignmouth to 9,,	1	44	37	30	bc. bc. p	c. b	b	5.5	
Plymouth "									
S. Kensington (Museum Grounds to 6 p.m.)	6	43	33	26	bm. c	c. bz	b.2. b	*	

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

Nov. 17th 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	
Yarmouth ...	7.19	11.38	3.57
Greenwich ...	7.23	11.45	3.7
Wick ...	8.7	11.51	3.47
Valencia ...	8.6	12.36	4.46
	8.7	12.26	4.45

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained low during the day and sharp frost occurred at night over a wide area. Much bright sunshine was experienced generally, but showers fell on many parts of the east and northeast coasts.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at M.O. and at the bookstalls at certain Railway Termini in London.



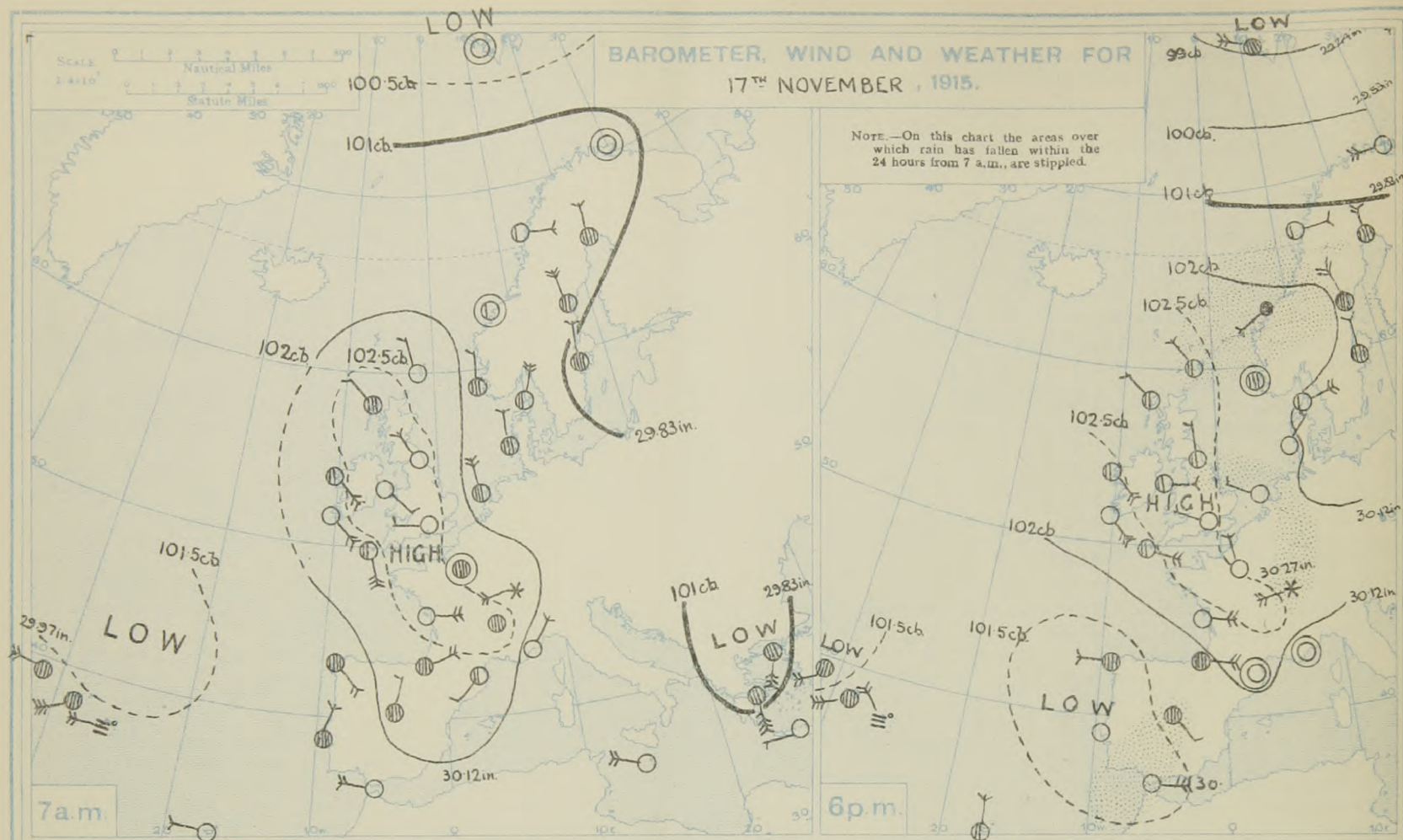
	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
				Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick ...	1026.4	40	NW	2	bc	1029.0	0	38	-1	-	0	-	bc	0	0.4	43	36	bc	bc	bc	Hours.
	Deerness ...	1027.1	40	WNW	1	bc	1029.9	0	40	0	-	0	-	c	0	45	39	c. bc	bc	bc	3.7	
	Stornoway ...	1028.0	33	NW	1	bc	1028.4	0	34	-2	W	1	-	b	1	44	27	bc	bc	b	5.0	
	Castlebay (Barra Isd.)	1027.1	43	S	3	o	1027.3	0	45	+3	SE	3	-	b	3	45	39	o. b	o. b	o. b	4.4	
	Glasgow ...	1029.1	29	-	0	f	1030.9	+1	19	0	ESE	1	-	b	1	32	18	f	f	f	0.0	
	Eskdalemuir ...	1029.7	25	N	1	b	1030.8	0	23	+7	NNW	1	-	bx	1	36	16	bx bc	bc b	b	5.4	
	Malin Head ...	1027.1	35	E	3	bm	1026.5	0	35	+3	SE	3	-	bx	2	41	32	b	b	bx	7.5	
	Blacksod Point ...	1023.3	40	SE	4	bc	1023.4	0	37	+1	SE	4	SE	bc	4	41	33	bc	bc	bc	*	
	Valencia ...	1022.2	46	SE	5	b	1023.2	0	45	-1	ESE	4	-	b	3	49	44	o. c. b	bc	b. bc b	5.5	
	Roche's Point																					
	Birr Castle ...	1026.1	38	SE	1	b	1027.1	0	26	+2	ESE	1	-	b	0	44	23	b	b	bx	6.0	
	Donaghadee ...	1027.5	38	SW	3	bm	1027.7	0	40	+7	SW	2	SW	cg	2	47	32	bm	bm	bm	*	
	Liverpool (Bldston)	1028.1	35	ESE	1	b	1029.0	0	34	+2	-	0	-	b	0	39	29	bm	bm	bx	0.6	
	Holyhead ...	1027.2	40	E	2	bc	1027.6	0	33	0	S	1	-	bx	0	49	32	b. bc b	b. b. m	bx	6.8	
	Pembroke (St. Ann's)	1027.6	38	S	3	bm	1027.8	0	34	+2	ENE	3	-	b	2	37	2	b	b	b	5.8	
	Scilly (St. Mary's)																					
	Falmouth ...	1026.4	42	E	1	b. x	1026.2	0	39	-5	ENE	3	-	b	3	47	36	bc b	b. z	bx	7.6	
	Jersey (St. Aubin)	1025.4	40	NNE	2	bm	1025.0	0	41	+0	E	2	-	om	2	47	30	bm	bm	bx. om	5.8	
	Portland Bill ...	1026.6	38	NNE	2	b	1026.2	-1	36	0	NE	3	NE	bx	3	44	35	b	b	b	*	
	Dungeness ...	1024.3	35	N	2	b. z	1025.3	0	28	-1	NNW	2	NE	bx	2	42	28	bc. z	bc. z	bc. bx	*	
	Dover ...	1024.7	35	NNW	5	b	1025.8	0	30	+9	NW	4	NW	b	2	Trace	41	29	bc. c. b	b	bx	4.2
	Wick																					
	Nairn ...	1027.3	35	WNW	1	bc	1029.3	0	31	-4	WNW	1	-	bc	2	40	28	bc	bc	bc	*	
	Aberdeen ...	1028.8	28	-	0	b	1029.6	0	22	-9	-	0	-	bc	2	35	20	bc	bc	bc. s	6.1	
	Leith ...	1027.7	35	WNW	3	b	1029.9	+1	32	-5	W	2	NE	b	2	41	31	bc. b	b	b. z	4.2	
Tynemouth ...	1026.5	40	SW	1	b	1029.8	+2	26	-4	SW	1	-	b	1	37	25	b	c. bc	b	*		
Spurn Head ...	1026.0	39	NNW	4	bc	1027.1	0	34	+4	NW	2	-	bc	3	41	31	om	bc	bc	*		
Yarmouth ...	1024.4	36	NNW	2	bc	1025.4	-2	35	0	NW	1	NW	bc	2	Trace	43	?	bc	bc	bc. om	2.2	
Clacton-on-Sea ...	1025.5	35	WNW	3	bc	1025.9	0	29	-3	NW	3	N	bc	2	41	28	c. bc	bc	bc. bx	4.5		
Nottingham ...	1026.6	38	N	2	b	1027.1	0	33	+7	W	1	N	om	1	41	25	bm	bm	bm	1.7		
Bath ...	1027.1	29	NW	1	M	1027.7	0	29	+5	W	1	-	m	1	42	22	m. b	bm	bm	6.7		
St. Farnborough ...	1026.6	32	NW	1	b	1027.0	0	28	+2	WNW	1	-	fx	1	Trace	41	25	bm	bm	bc. fx	6.7	
London (Kew Obs.)	1026.7	36	WNW	1	bm	1027.3	-1	31	+2	-	0	-	fx	1	Trace	42	27	bm. b. x. b	b. bm	bm. om. fx	4.8	
NORTHERN EUROPE.	Spitsbergen ...	990.0	-15	WNW	4	o	1004.2	+2	-2	+7	W	4	o	o	1	?	?					
	Vardö ...	1003.4	25	W	4	b	1011.5	+5	21	-7	NNW	6	-	o	5	27	21					
	Bodö ...	1014.3	34	E	2	b	1018.9	+3	41	+11	W	3	-	c	2	41	28					
	Christiansund ...	1012.1	39	SW	2	r	1017.3	+3	41	+5	SW	3	-	o	3	41	36					
	Skudesnaes ...	1012.6	37	-	0	c	1021.1	+2	32	-4	E	1	-	b	2	41	32					
	Færder (Xania Fjord)	1012.4	34	NNW	4	bc	1018.2	+5	32	-2	NNE	4	-	b	2	36	32					
	The Scaw (Skagen)	1014.5	38	NNE	3	bc	1025.3	+3	36	-1	ENE	4	NE	b	4	37	34					
	Blaavands Huk ...	1020.8	34	NE	1	b	1023.6	+2	30	0	NE	2	-	c	3	39	27					
	Haparanda ...	1014.9	28	N	4	o	1019.0	+3	21	-11	W	2	-	b	1	34	19					
	Hernösand ...	1018.4	32	NNW	4	c	1026.1	+3	19	-15	-	0	-	b	1	Trace	36	18				
FRANCE, &c.	Stockholm ...	1015.1	34	N	2	o	1023.3	+5	32	-2	N	2	-	c	1	36	30					
	Wisby ...	1014.3	39	N	6	c	1021.6	+6	36	-1	NE	4	S	b	4	39	34					
	Karlstad ...	1019.1	28	WNW	2	c	1027.9	+8	25	-5	N	2	-	b	1	30	19					
	Petrograd (9 a.m.)	1022.7	41	WNW	1	b	1021.6	-1	39	0	ENE	3	-	r	1	43	37					
	The Helder ...	1025.0	40	N	6	bc	1025.2	0	41	+2	N	4	-	bc	3	43	36					
	La Hève ...	1025.6	41	NNE	2	bc	1025.6	0	36	-10	ENE	2	-	bx	2	46	34					
	Ushant ...	1025.0	41	E	3	b	1024.8	0	39	0	E	4	-	b	3	46	37					
	Brest (St. Mathieu)	1022.7	39	E	4	b	1021.5	0	33	0	ENE	5	-	b	1	45	32					
	Rochefort (Ile d'Aix)	1016.2	44	E	4	o	1013.7	-1	40	+2	E	3	-	o	2	48	38					
	Biarritz ...	1024.2	34	NNW	2	b	1026.0	+1	30	0	-	0	-	o	1	43	28					
SOUTHERN EUROPE.	Belfort ...	1024.6	30	WSW	4	S	1025.2	0	28	0	W	2	-	o	1	42	28					
	Lyons ...	1025.5	36	N	2	o	1024.7	0	30	0	N	1	-	ox	1	42	29					
	Nice ...	1017.6	40	-	0	b	1018.6	+1	39	+2	E	2	-	b	3	50	34					
	Perpignan ...	1021.2	36	-	0	b	1019.5	0	39	+3	SW	1	SW	o	1	48	36					
	Sanguinaire ...	1021.2	36	-	0	b	1019.5	0	39	+3	SW	1	SW	o	1	48	36					
	Corunna (7 a.m.)	1012.7	57	W	2	o	1013.6	0	50	+4	S	2	-	f	3	61	50					
	Madrid (8 a.m.)	1015.5	55	SE	1	o	1014.0	+2	48	+7	NE	2	-	f	3	59	41					
	Lisbon (9 a.m.)	1014.5	62	E	5	o	1018.9	0	54	-1	W	3	-	c	2	68	53					
	Gibraltar ...	1014.5	62	E	5	o	1018.9	0	54	-1	W	3	-	c	2	68	53					
	Rome ...	1014.5	62	E	5	o	1018.9	0	54	-1	W	3	-	c	2	68	53					
	Malta (8 a.m.)	1015.9	66	N	2	bc	1022.0	+3	54	-10	SW	2	-	b	0	66	50					
	Azores (Horta, 8 a.m.)	1015.9	66	N	2	bc	1022.0	+3	54	-10	SW	2	-	b	0	66	50					
	Madeira (Funchal)	1019.0	66	N	2	bc	1019.3	0	61	0	N	2	-	bc	2	70	61					

## RAINFALL.

Equivalents of Millimetres.  
in Inches.

mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
19	0.75	44	1.73
20	0.79	45	1.77
21	0.83	46	1.81
22	0.87	47	1.85
23	0.91	48	1.89
24	0.95	49	1.93
25	0.98	50	1.97





**FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.**

**FORECAST DISTRICTS.**



- |    |        |   |
|----|--------|---|
| 0  | a<br>b | } Light winds, variable or Westerly; mostly fair, but local mist; cold.   |
| 1  |        |   |
| 2  | a<br>b | } Light winds, between North and North-West; mostly fair, but local showers on coast and local mist inland; rather low temperature. |
| 3  |        |   |
| 4  | a<br>b | } Wind light, rather variable or Northerly; local fog or mist, otherwise fair; cold.  |
| 5  |        |   |
| 6  | a<br>b | } Light variable winds; some local mist or fog, but fair generally; cold.   |
| 7  |        |   |
| 8  | a<br>b | } Easterly or South-Easterly winds, light or moderate; fair generally; rather cold.   |
| 9  |        |   |
| 9  | a<br>b | } Light or moderate South-Easterly or Southerly winds; fair generally; cold.  |
| 10 |        |   |
| 10 | a<br>b | } South-Easterly winds, light or moderate; fair; cold.  |
| 11 |        |   |
| 11 |        | } Easterly winds, light or moderate; sea moderate or rather rough; fair.  |

**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings Issued.

Western Channel and Bay 11

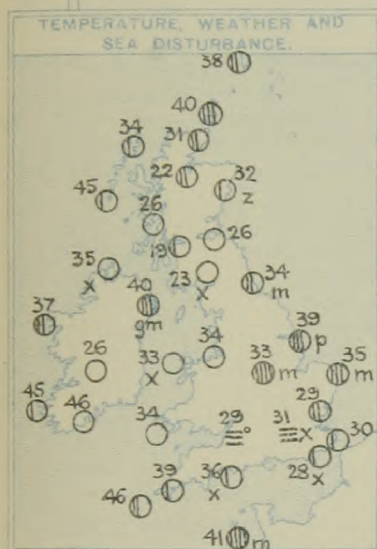
**FURTHER OUTLOOK.**



# SYNOPTIC CHART FOR 7 a.m., THURSDAY, 18<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

The anticyclonic system is likely to continue the main factor in the pressure distribution for the present, and may be expected to extend still further in a northeasterly direction.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm.

**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

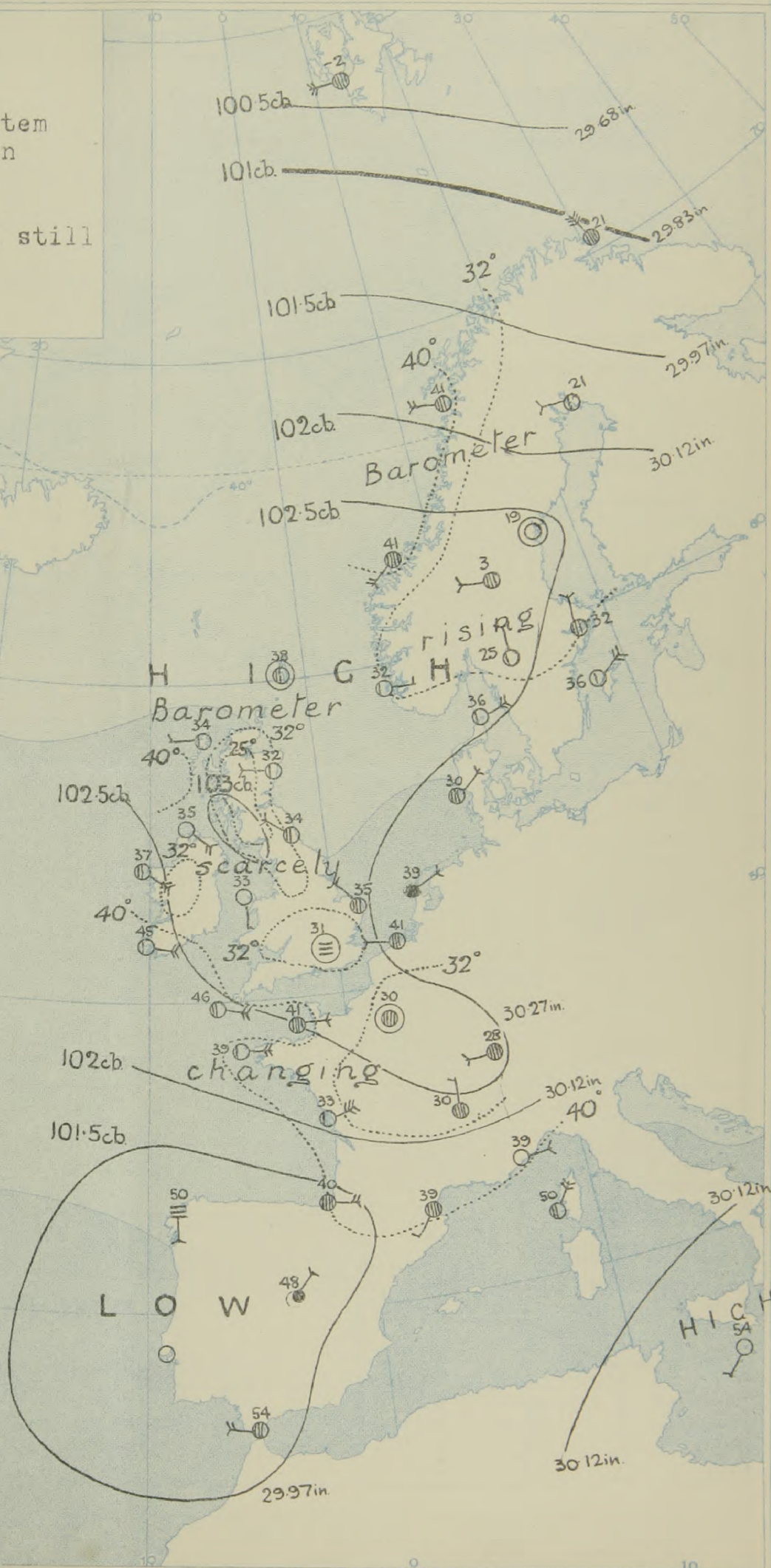
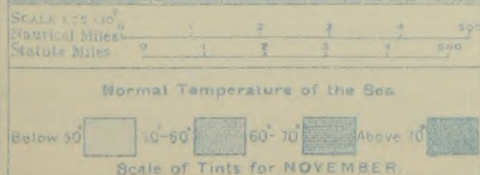
○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded. ○ sky 1/2 clouded. ○ overcast sky. ● rain falling. \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder. T, thunderstorm.

**SEA DISTURBANCE.**—Rough wavy. High wavy.

Inches  
31

30

29





## DAILY WEATHER REPORT.

Thursday, 13th November, 1915.

REPORTS  FOR  YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain- fall. Multi- metres.	TEMP.	
		Barom. Milli- bars at M.S.L.	TEMP.  ° F.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.							
	Blacksea Pt.						1024.0	-2	35	-2	SE	4	E	bc	3	-	43	83	
	Makaranda	1008.8	32	S	2	r	1013.1	+2	32	-2	N	2	-	0	A	Trace	36	32	
	Hornö Sand	1005.0	34	-	0	bc	1011.3	+3	34	0	NW	4	-	0	e	3	36	32	
	Stockholm	1005.0	32	NW	2	0	1009.7	+1	34	-2	N	2	-	0	*	-	36	32	
	Wick	1005.9	37	WSW	2	bc	1008.6	+3	37	-2	SE	4	-	0	*	1	41	34	
	Karlshad	1008.8	27	N	2	b	1014.6	+5	30	-2	-	0	-	0	*	-	36	27	
	Lisbon	1020.0	57	NNE	1	0	1015.3	-2	50	-7	NNE	2	-	0	5	-	57	52	
17th November, 1915.																			

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.							Tunbridge Wells ...						
Oban ...	...	42	28	b	b	6.2	Margate ...	...	42	37	c.b	b	4.4
Banff ...	3	42	35	c.b.c.b	b	4.6	Ramsgate ...	...	44	32	bc	bc	4.1
Carnoustie ...	...	42	30	x	x	6.9	Hastings ...	...	42	32	b	b	7.3
St. Andrews ...	...	42	30	x	x	6.9	Bexhill-on-Sea ...	...	42	32	b	b	7.3
England, N.E.							Eastbourne ...	...	42	32	b	bm	6.2
Harrogate ...	...	39	26	b	b.bc	4.8	Seaford ...	...	42	29	b	b	6.0
Skegness ...	6	39	32	c.b.c	bc	0.0	Brighton ...	...	42	31	bc.b	b.bm	6.4
England, N.W.							Worthing ...	...	43	30	b	b	7.1
Morecambe ...	...	36	12	c.b.c	b.bc	4.0	Littlehampton ...	...	45	30	bc.b	b.bc	7.5
Blackpool ...	...	37	15	bm.b	bc.b	4.3	Bognor ...	...	43	30	b	b	7.7
Southport ...	...	38	19	c.b.c	bc.b	3.1	Southsea ...	...	43	30	b	b	7.0
Midlands.							Bournemouth ...	...	44	26	b	b	7.8
Buxton ...	...	41	25	b.bc	bc.c	3.4	Weymouth ...	...	45	30	3.b	bz	6.5
Leamington Spa ...	...	40	26	b	b	7.7	Torquay ...	...	46	28	b	b	7.7
Malvern ...	...	42	21	bc	bm	0.5	Paignton ...	...	44	23	bm	bm.b	7.2
Ross-on-Wye ...	...	42	21	bc	bm	0.5	Falmouth ...	...	47	36	bc.b	bz	7.6
Wales.							Penzance ...	...	49	38	bc	bc.b	5.8
Rhyl ...	...	40	24	b	b	7.5	Newquay ...	...	45	30	bx	b	7.5
Colwyn Bay ...	...	39	27	bc	bc	6.0	Ilfracombe ...	...	45	30	b	b	7.5
Llandudno ...	...	42	27	c.b.c	c.b.c	7.3	Weston-super-Mare ...	...	49	23	b	b	6.6
Aberystwyth ...	...	43	24	b	bc	6.8							
Tenby ...	...	43	24	b	bc	6.8							
England, E.													
Cromer ...	...	46	37	c.b.c	c.b.c	3.4							
Lowestoft ...	...	41	31	bc	bc	4.1							
Felixstowe ...	...	41	30	bc	bc	4.1							
Walton-on-Naze ...	...	39	30	b	bc	6.2							
Southend-on-Sea ...	...	39	30	b	bc	6.2							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 67	% 100	Hr. 4.0	° F. 41	° F. 27	° F. 23	mm. 8	b2	b2	bm2
City (Bunhill Row) ...	*	*	4.1	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	66	93	3.0	42	28	25	-	bc.b	b.	bc.f
Camden Sq. (Brit. Rainfall)	71	97	5.5	43	28	26	Trace	b	b	*
Hampstead (Reservoir) ...	*	96	5.7	40	27	13	-	bc	bc	xof
Richmond Park	*	*								
Kew. (See front page.)										
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
				Total.		Average Rate.		Max. Rate.		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				339 Joules		10.8 Milliwatts.		20 Milliwatts.		
S. Kensington (Roof of M.O.)				65 99 4.0						

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
		° F.	° F.	° F.				
Dublin to 4 p.m.	mm.8	° F.	° F.	° F.				Hr.
Darwen to 9 p.m.								
Manchester "								
Birmingham "								
Oxford to 8 p.m.	*	42	25	17	bm	bm	bm	*
Teignmouth to 9 "	-	43	25	22	bx	bx	b	7.1
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	-	42	30	19	b	bm	bz	*

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

	13th-14th November, 1915.		
	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.20	11.28	3.56
Greenwich ...	7.24	11.38	3.55
Wick ...	6.9	11.57	3.46
Valencia ...	6.7	12.26	4.44

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in many parts of the Kingdom, and frost again occurred at night. Bright sunshine was very prevalent over the Country generally.

NOTE.—The information relating to weather is indicated by the following letters—b, blue sky; bc, sky half clouded; c, sky three parts clouded; d, drizzling 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; s, snow; t, thunder; u, ugly, threatening sky; v, visibility, unusual transparency; w, dew; x, hoar frost; z, dust-haze, or smoke.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies id. at M.O. and at the bookstalls at certain Railway Terminals in London.



Friday,  
19th November 1915.

# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 323.

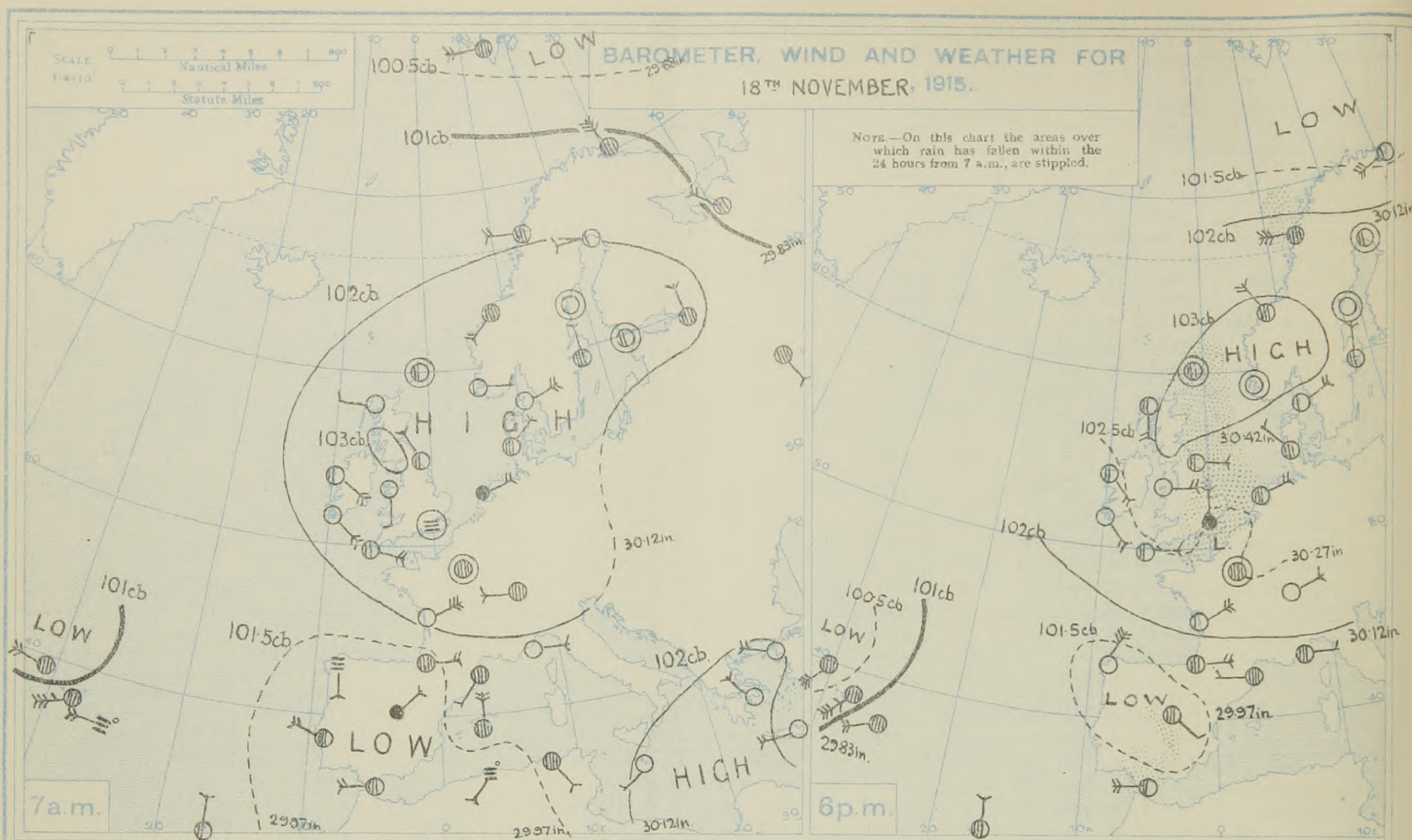
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 5 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick	1031.6	SE	0	c	1036.9	+	41	+3	S	1	-	c	1	1	43	36	bc	bc	cm	Hours.	
	Deerness	1030.8	SE	2	omp	1033.8	+	42	+2	S	3	-	bc	1	1	44	38	c, bc	bc, po	c, po, bc	1.0	
	Stornoway	1029.1	S	3	bc	1032.6	+1	46	+6	S	3	-	c	3	-	43	33	c, o	o, bc	b, bc	0.7	
	Castletay (Barra Isd.)	1028.1	SE	4	c	1021.2	+1	44	-1	SE	4	SE	o	4	-	47	43	b, o, c	c, o, c	c, bc	2.6	
	Glasgow	1031.1	35	-	o	1035.3	+3	33	+4	ENE	1	-	m	-	-	32	18	bf	f	fb, fx	1.0	
	Eskdalemuir	1030.6	28	-	o	1035.6	+2	32	+9	-	0	-	o	1	1	40	19	b, bc	bc, o, o	o, bc, c, o	6.3	
	Malin Head	1027.2	SE	3	bm	1029.9	0	34	-1	SE	3	-	bm, x	2	-	45	33	bm	bm	bm	6.7	
	Blacksod Point	1024.4	SE	3	bc	1025.7	-2	39	+7	SE	4	SE	bc	3	-	42	35	bc	bc	bc	-	
	Valencia	1024.6	SE	3	b	1024.9	0	44	-1	ESE	4	-	b	4	-	50	44	b	bc	bc	2.3	
	Roche's Point	1026.4	SE	3	c	1027.6	+	46	0	SE	5	-	o	5	-	49	44	bc, c	bc, c	b, o, g	-	
	Birr Castle	1027.3	34	-	o	1028.9	+	37	+11	SE	2	-	c	-	-	45	25	b	b, fog	cx	5.4	
	Donaghadee	1028.1	E	3	bc, m	1031.5	+1	42	+2	SSE	4	SE	bc, m	3	-	48	39	bc, m	bc, m	bc, m	-	
	Liverpool (Bidston)	1028.3	39	NE	2	o	1032.5	0	35	+1	ENE	1	-	m	1	-	42	33	bc	bc	bm, x	2.2
	Holyhead	1028.2	42	E	3	bm	1030.9	+1	37	+4	ENE	4	-	b, x	3	Trace	47	32	b, z	b, km	b, o, p, bx	7.4
	Pembroke (St. Ann's)	1027.2	39	ENE	2	b	1029.4	+1	35	+1	E	3	NE	b	3	-	43	35	b	b	bm	6.0
	Scilly (St. Mary's)	1024.8	42	E	2	bc, m	1025.0	0	42	-4	E	4	E	cm	4	-	50	40	bc, c	bc, m	bc, m, m	6.3
	Falmouth	1026.2	40	ENE	3	b, z	1026.8	+1	38	-1	NE	3	-	c	4	-	47	34	b, bc	bc, z, bc	b, bc, c	5.0
	Jersey (St. Aubin)	1024.0	44	E	2	cm	1025.9	+	42	+1	E	2	-	b	2	0.3	47	35	b	bc, m	cm, o, p, b	5.2
	Portland Bill	1025.1	40	NNE	3	bm	1027.1	+1	37	+1	ENE	5	NE	bc	4	-	41	36	b, bc	bc, m	cm, o, c	-
	Dungeness	1023.5	37	NNW	2	omr	1026.3	+2	38	+10	ENE	5	E	c	5	1	37	28	b, x, f	f, omr	m, bc, bc	-
	Dover	1024.7	37	E	3	r	1030.5	+3	36	+6	NNE	4	NE	b	6	2	38	30	bc, c	c, or	m, o, c, bc	0.0
	Wick	1031.1	36	W	1	m	1034.4	+1	40	+9	S	1	-	bc	3	-	44	30	bc, m	bc, m, m	c, bc, m	-
	Nairn	1031.0	24	-	0	bc	1034.5	+	20	-2	-	0	-	b	1	-	30	19	bc	bc	c, bc	4.8
	Aberdeen	1031.3	35	WNW	2	op, z	1035.6	+2	32	0	NW	2	S	c, z	2	1	37	30	bc, z, o, p	bc, z, o, p	o, bc, z	0.3
	Leith	1029.8	38	SW	1	o	1033.8	+1	37	+11	SW	1	-	f	0	-	36	25	c, omr	c, omr	om, fx	-
	Tynemouth	1028.9	43	E	2	bc, m	1033.6	+3	43	+9	E	3	E	bc	3	1	44	34	bc, m	bc, m	bc	-
	Spurn Head	1027.4	42	E	5	bc, q, p	1033.2	+2	44	+5	ESE	4	-	c, q, p	5	1	45	35	c, p	bc, q, p	bc, q, p	1.7
	Yarmouth	1025.2	39	E	5	c	1030.8	+2	42	+7	E	5	E	c	3	8	43	34	omr	cm, p	bc, p	0.0
	Clacton-on-Sea	1024.8	40	ENE	3	o	1031.0	+4	42	+13	ENE	4	E	c	3	2	42	28	bc, o, g, m	o, g, m	o, g, m	0.0
	Nottingham	1026.4	39	NNE	3	b	1032.5	+	35	+2	E	2	E	c	0.4	43	30	o, cm	omd, c	bc, p, b	0.2	
	Bath	1026.3	35	E	?	o	1030.9	+	32	+3	E	3	-	b	0.3	40	29	m, o, c	m, o, c	o, p, bc, b	0.3	
	St. Farnborough	1024.7	31	NW	1	o	1030.6	+3	25	+3	-	0	-	bm, x	0.8	38	24	f, m, bc	om	d, c, o, m, x	0.0	
	London (Kew Obsy.)	1024.7	40	N	2	omd	1031.3	+3	32	+1	NE	1	E	bm, x	0.4	41	30	f, x, o, s, o, f	o, f, m, o, f, o, m, d	omd, bc, m	0.0	
NORTHERN EUROPE.	Spitsbergen	1007.5	-2	-	0	b	1014.6	+2	-9	-7	-	0	-	b	0	0	-11	-	-	-	-	
	Vardö	1011.5	25	WSW	5	b	1011.3	+3	30	+9	NW	6	-	o	4	+	25	19	-	-	-	
	Bodö	1020.8	41	W	6	o	1025.0	+3	43	+2	SW	7	-	o	4	11	41	37	-	-	-	
	Christiansund	1031.9	41	NW	3	c	1035.9	0	41	0	SW	2	-	c	3	-	43	34	-	-	-	
	Skudesnaes	1032.9	30	-	0	b	1034.7	0	34	+2	-	0	-	o	1	-	41	30	-	-	-	
	Færder (Xiania Fjord)	1024.6	34	N	3	b	1033.3	+2	30	-2	N	3	-	b	1	-	34	30	-	-	-	
	The Scay (Skagen)	1029.5	36	ENE	3	b	1032.4	0	36	0	NE	2	-	b	2	-	36	34	-	-	-	
	Blaavands Huk	1029.5	34	NW	1	c	1032.3	+2	34	+4	NNE	2	-	b	2	-	36	25	-	-	-	
	Haparanda	1020.6	21	-	0	bc	1019.5	+1	21	0	-	0	-	c	+	-	39	14	-	-	-	
	Hernösand	1027.7	30	-	0	b	1027.9	+1	37	+18	NW	2	-	b	+	-	37	19	-	-	-	
FRANCE, &c.	Stockholm	1026.9	30	N	2	bc	1027.4	0	28	-4	N	2	-	bc	+	-	34	28	-	-	-	
	Wisby	1023.5	30	NE	6	bc	1026.4	+2	39	+3	NNE	4	-	c	4	-	39	34	-	-	-	
	Karlstad	1030.9	25	-	0	S	1032.0	+3	23	-2	N	2	-	b	+	-	28	21	-	-	-	
	Petrograd (S.M.T.)																					
	The Helder	1026.7	37	ENE	3	o	1031.3	0	27	-2	N	1	-	bc	1	1	41	36	-	-	-	
	C. Gris Nez	1023.4	39	NNW	5	o	1029.0	+3	30	-11	E	4	-	b	2	4	45	28	-	-	-	
	La Hève	1023.8	34	SSE	2	m	1026.9	+	34	-2	SSE	2	-	m	1	-	43	34	-	-	-	
	Ushant																					
	Brest (St. Mathieu)	1024.7	42	E	2	b	1022.4	+2	41	+2	E	3	-	c	2	-	48	37	-	-	-	
	Rochefort (Ile d'Aix)	1021.2	36	ENE	4	b	1021.6	0	33	0	ENE	4	-	bc	+	-	41	32	-	-	-	
SOUTHERN EUROPE.	Biarritz	1016.4	43	E	3	c	1018.6	0	35	-5	NE	2	-	b	2	-	43	34	-	-	-	
	Paris	1024.7	34	-	0	o	1028.0	+2	30	0	E	1	-	o	+	-	36	30	-	-	-	
	Belfort	1025.0	30	ENE	2	b	1028.3	+	23	-5	BNE	4	-	f	+	-	39	41	-	-	-	
	Lyons																					
	Nice	1019.0	41	E	1	c	1020.3	0	36	-3	E	3	-	b	4	-	48	36	-	-	-	
	Perpignan	1018.0	41	W	1	o	1020.7	+1	41	+2	SW	1	-	o	+	-	46	37	-	-	-	
	Sanguinaire		53	E	3	o			49	-1	E	2	-	c	2	-	54	43	-	-	-	
	Corunna (7 a.m.)	1014.6	57	NNE	5	b	1019.3	+4	50	0	SE	1	-	f	3	-	61	46	-	-	-	
	Madrid (8 a.m.)	1013.7	56	SE	1	c	1020.7	+4	43	-5	-	0	-	r	3	52	43	-	-	-	-	
	Lisbon (9 a.m.)																					
SOUTHERN EUROPE.	Gibraltar	1016.2	59	W	4	bc	1018.6	+	55	+1	W	3	-	b	2	2	64	53	-	-	-	
	Rome																					
	Malta (8 a.m.)						1015.0	-1	66	+12	SE	5	S	o	3	-	66	64	-	-	-	
	Azores (Flores, 8 a.m.)	1008.6	+	SW	8	o																
	Madeira (Funchal)	1018.1	70	N	2	o	1019.7	+1														

\* Information for these columns not usually received.

† Received too late for insertion in Charts.

‡ The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday. Signals hoisted this morning.

South Coast. North Coast. South Coast. North Coast.

No Warnings Issued.

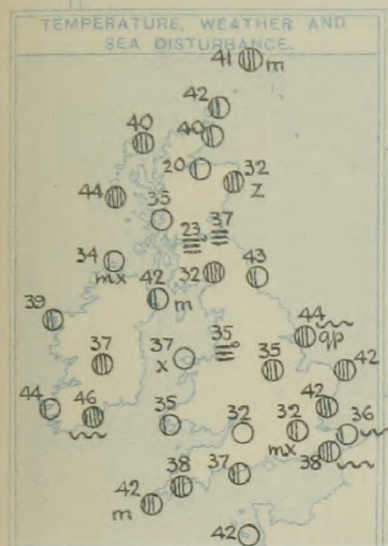
Western Channel and Bay 11

- |    |            |  |
|----|------------|--|
| 0  | a }<br>b } | Light Southerly winds; fair generally; rather cold.  |
| 1  | a }<br>b } | Wind light variable; fair generally, but fog or mist locally; cold.  |
| 2  |            |  |
| 3  | a }<br>b } | Wind between North-East and East, moderate or light; mostly fair but occasional mist or fog locally; cold. |
| 4  |            |  |
| 5  |            |  |
| 6  | a }<br>b } | Same as Nos. 1 and 2.  |
| 7  | a }<br>b } | Light winds between South and East, or variable; some fog or mist, otherwise fair; cold.                   |
| 8  | a }<br>b } | Same as Nos. 3 to 5.   |
| 9  | a }<br>b } | South-Easterly or Southerly winds, light or moderate; fair generally, mist locally; rather cold.           |
| 10 |            |  |
| 11 |            | Easterly winds, moderate to fresh; sea rather rough or moderate; mostly fair, some mist.                   |

FURTHER OUTLOOK.



The anticyclonic regime  
appears likely to continue  
without important modification

SEA DISTURBANCE.—Rough  High .



## DAILY WEATHER REPORT.

Friday, 19th November 1915.

REPORTS  FOR  YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain-fall. Milli-metres.		TEMP. Max. Min.	
		BAROM. Milli-bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.					
				Direc.	Force 0-12.		Milli-bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours. ° F.	Direc.	Force 0-12.								
			° F.																	
	Petrograd	1009.2	34	NW	4	0	1021.9	+5	32	-	NNW	2	-	0	4	1	34	32		
	Lisbon	1010.7	55	?	1	r	1012.2	+2	55	+5	WNW	3	-	c	6	17	55	50		
	Horta						1011.8	-2	65	+1	WSW	7	*	0	6	-	68	64		
18th November, 1915																				

18th November, 1915

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. §	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		° F.	° F.						° F.	° F.			
Scotland.													
Oban ...	...	40	24	b	bc. b	4.6	Tunbridge Wells ...	...	41	35	o	r	0.0
Banff ...	...	36	26	bc. bc. c	c	0.0	Margate ...	2	37	32	o	r	0.0
Carnoustie ...	...			*	*		Ramsgate ...	1	43	32	b	o	4.7
St. Andrews ...	...						Hastings ...	...	41	33	b. bc. m	f	5.5
England, N.E.							Bexhill-on-Sea ...	...	40	28	b	b. c	3.8
Harrogate ...	0.2	39	35	bc. b	c. op. bc	1.0	Eastbourne ...	...	37	30	bc. b	bc. m	4.2
Skegness ...	2	44	31	o. bc	bc. p. c	0.6	Seaford ...	...	39	29	b	b	4.5
England, N.W.							Brighton ...	...	40	29	fo	o	0.7
Morecambe ...	...	40	23	bc. b	b. bc. o	4.0	Worthing ...	...	40	30	b	b. c	4.6
Blackpool ...	...	?	?	bc	o. c. op	4.1	Littlehampton ...	...	38	30	bc	bc	2.2
Southport ...	...						Bognor ...	...	42	28	o	o	0.0
Midlands.							Bournemouth ...	...					
Buxton ...	...	41	26	of	ofe	0.0							
Leamington Spa ...	...	39	24	om. bc	om	0.1							
Malvern ...	...												
Ross-on-Wye ...	...												
Wales.													
Rhyl ...	...	45	24	b	z. bc	5.6	Weymouth ...	...	39	32	z. b	bc. z	4.5
Colwyn Bay ...	...	40	27	bc	bc. o	6.7	Torquay ...	...	45	30	b. bc	bc. c	5.6
Llandudno ...	...						Paignton ...	...					
Aberystwyth ...	...	45	27	c. b	c. o	7.5	Falmouth ...	...	47	37	b. bc	bc. z. bc	5.0
Tenby ...	...	43	33	b	b	6.7	Penzance ...	...	47	26	b	b	7.3
England, S.E.							Newquay ...	...	43	30	z. b	bc. z	6.8
Cromer ...	...	42	31	op. m	op. c	0.0	Ilfracombe ...	...	49	26	m. bc	b. bc. m	1.2
Lowestoft ...	...	40	28	up. m	om. r	0.0	Weston-super-Mare ...	...					
Felixstowe ...	...	41	28	om	om. or	0.0							
Walton-on-Naze ...	...	38	27	o	or	0.0							
Southend-on-Sea ...	...												

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obsy.) ...	% 95	% 84	Hr. 0.0	° F. 40	° F. 30	° F. 24	mm. § 1	CZ 02	02.07	02.07
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	95	79	0.0	42	31	28	1	fe	fe frs	f bc
Camden Sq. (Brit. Rainfall)	87	89	0.0	40	31	28	1	f. o	0. cm	*
Hampstead (Reservoir) ...	*	80	0.3	38	29	20	1	c. o. d	c. o. x	o
Richmond Park	...	*								
Kew. (See front page.)				VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)	93	78	0.0	131 Joules		4.2 Milliwatts.		16 Milliwatts		

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

19th November, 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.22	11.38	3.55
Greenwich ...	7.24	11.39	3.54
Wick ...	7.28	11.46	4.5
Valencia ...	8.12	11.57	3.43
	8.14	11.58	3.42
	8.9	12.26	4.44
	8.11	12.27	4.43

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

## NOTES ON YESTERDAY'S WEATHER.

Temperature failed to reach 40° in several parts of Great Britain. Some rain was experienced in the east and south-east of England, but many western districts recorded much sunshine—more than 7 hours, at a few stations.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies id. at M.O. and at the bookstalls at certain Railway Termini in London.



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 324

Saturday,  
20th November, 1915.

STATIONS.	YESTERDAY EVENING.						THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.						Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea G-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.																							
Lerwick ...	1037.0	41	SW	2	bcm	1037.1	0	45	+4	SW	4	-	c	3	0.1	45	40	bc	bc	c	Hours.		
Deerness ...	1036.2	38	S	4	bc	1036.0	+	42	0	S	5	-	b	4	-	44	39	bc b	b	b	3.3		
Stornoway ...	1034.8	41	SSW	3	b	1034.5	+3	43	+3	S	6	-	cg	5	-	44	38	bc b	b	bc.cq	5.5		
Castlebay (Barra Isd.)	1032.6	46	SE	5	o	1034.3	+1	47	+3	SE	5	SE	c	5	-	47	43	o bc o	o	o c	2.7		
Glasgow ...	1037.8	32	E	1	b	1040.1	+3	31	+8	ENE	2	-	b	+	-	35	22	cm	bc c bm	bm x	1.4		
Eskdalemuir ...	1039.0	31	NW	1	o	1041.3	+2	26	-6	NNW	2	-	b	+	-	37	24	o	o bc c	o c bc	1.1		
Malin Head ...	1030.4	38	SE	6	bcm	1035.8	+3	39	+5	S	4	-	bm	3	-	43	34	bm	bm	cm	6.3		
Blacksod Point ...	1027.5	39	ESE	6	bcm	1027.5	+1	40	+1	S	6	S	cm	5	-	42	36	bm	bm	bc	+		
Valencia ...	1027.7	46	SE	4	bc	1029.5	+1	48	+4	SSE	5	SE	o	3	-	49	43	bc o	bc bz	c o	1.5		
Roches Point ...	1029.8	46	E	5	b	1033.7	+	49	+3	SE	5	-	o	5	-	49	45	o bc c	bc b	b o	+		
Birr Castle ...	1031.3	38	SE	3	b	1034.4	+	40	+3	SE	1	-	o	+	-	43	35	c	b	b o	5.2		
Donaghadee ...	1034.3	44	SSE	4	om	1036.8	+4	43	+1	S	4	S	cg	3	-	45	42	cg	cg	cm, sq	+		
Liverpool (Bidston) ...	1036.7	37	E	1	b	1039.4	0	37	+2	E	1	E	om	2	-	42	35	bm	bm	om	4.3		
Holyhead ...	1035.0	39	E	4	bz	1037.1	+2	35	-2	S	1	-	bx	0	-	48	34	bm	b bc bz	bc	6.3		
Pembroke (St. Ann's) ...	1033.1	46	ESE	4	b	1035.6	+1	40	+5	ESE	3	SE	c	3	-	43	34	bc	bc	c bc	5.5		
Scilly (St. Mary's) ...	1028.8	47	E	4	c	1033.3	+1	48	+6	ESE	4	E	o	4	0.3	49	40	cp	c	bc o	4.1		
Falmouth ...	1031.7	43	NE	4	b	1034.6	+2	44	+6	E	3	-	b	4	1	45	37	o	cg p b	b	0.6		
Jersey (St. Aubin) ...	1029.6	42	NE	3	o	1033.2	+	41	-1	E	2	-	o	2	-	46	35	b o	o c o	bc b o	2.8		
Portland Bill ...	1032.7	40	NE	4	bc	1035.1	+3	42	+5	ENE	4	NE	c	4	-	44	34	bc c	c bc	bc c	+		
Dungeness ...	1031.7	43	ENE	5	c	1035.6	+3	37	-1	E	4	-	o	4	-	43	36	bc	bc	bc c o	+		
Dover ...	1032.6	43	MNE	4	c	1036.6	+6	36	0	NE	4	NE	o	4	-	38	34	bc c	c	c o	0.9		
Wick ...	1036.7	40	S	2	b	1036.4	+2	41	+1	SE	2	-	b	3	-	41	30	bc	bc	b	+		
Nairn ...	1037.0	28	-	0	bm	1027.0	+	29	+9	-	0	-	bm	1	-	35	19	bc	bc b	bm	3.6		
Aberdeen ...	1038.4	33	NNW	1	bz	1039.8	+1	36	+4	SW	2	-	c	2	-	39	31	cg, oz	cg, bz	cg, bc c	0.0		
Leith ...	1038.1	35	SW	1	m	1035.7	+1	28	-9	SW	1	-	m	+	-	27	27	cm, f	c, bm c	z	+		
Tynemouth ...	1037.2	44	ESE	1	bc	1040.4	0	42	-1	SE	1	-	fg	3	-	45	41	bc	bc	o	+		
Spurn Head ...	1036.3	40	ESE	3	o	1039.5	+1	45	+1	ESE	3	-	c	3	1	46	41	cg p	bc p o	o bc	3.3		
Yarmouth ...	1034.2	45	E	4	c	1037.8	+4	42	0	ESE	4	E	bc	4	-	46	42	bc	c	c bc	0.4		
Clacton-on-Sea ...	1033.6	42	N	2	o	1037.4	+4	40	-2	ENE	4	E	c	3	-	45	40	cr	cr o	o c	2.6		
Nottingham ...	1035.9	41	ENE	1	o	1038.7	+	42	+7	NE	2	NE	o	+	-	44	32	c bc	e o	o c	5.8		
Bath ...	1034.2	30	E	+	b	1037.1	+	33	+1	E	2	-	b	+	-	42	27	b, bcm	bm	b bc c	5.3		
Sth Farnborough ...	1033.6	38	N	1	o	1036.2	+2	36	+11	ENE	2	-	o	+	Trace	40	24	bm	b bc o	o bc o	7.1		
London (Kew Obsv.) ...	1034.2	42	NE	3	om	1037.7	+4	37	+7	ENE	4	-	om	+	0.1	42	32	bm, cfc	bm, bm om	om	1.0		
NORTHERN EUROPE.																							
Spitsbergen ...	1006.7	-2	S	2	o	995.1	+2	5	+14	-	0	+	s	+	+	7	-11						
Vardö ...	1017.6	28	SW	1	o	1006.9	-3	39	+9	W	5	-	o	3	+	28	19						
Bodö ...	1031.3	43	SW	6	o	1031.1	0	41	-2	SW	6	-	o	4	2	43	39						
Christiansund ...	1037.9	43	NNW	1	c	1040.0	+3	37	-4	E	4	-	c	3	-	43	37						
Skudesnaes ...	1037.3	36	-	0	b	1040.8	+3	30	-4	NE	1	-	b	1	-	39	27						
Færder (X'ianla Fjord) ...	1036.4	32	NNW	2	b	1040.2	+3	28	-2	N	2	-	b	1	-	34	28						
The Scaw (Skagen) ...	1034.7	36	MNE	2	b	1037.1	+2	34	-2	ESE	1	-	b	1	-	37	34						
Blaavands Huk ...	1035.7	32	ENE	1	b	1040.2	+3	27	-7	E	1	-	f	1	-	37	27						
Haparanda ...	1024.6	32	W	2	bc	1025.3	0	32	+11	W	4	-	b	+	-	34	21						
Hernösand ...	1031.7	41	NW	6	b	1035.8	0	32	-5	W	2	-	b	+	-	41	30						
Stockholm ...	1030.0	34	N	2	b	1036.8	+3	30	+2	-	0	-	b	+	-	34	28						
Wisby ...	1029.6	39	NNW	6	c	1035.5	+6	39	0	N	2	-	o	3	-	41	36						
Karlstad ...	1034.9	28	-	0	b	1040.2	+3	25	+2	-	0	-	b	+	-	32	19						
Petrograd (5 a.m. G.M.T.) ...																							
The Helder ...	1024.1	29	MNE	2	b	1037.1	+3	36	-1	ENE	2	-	o	1	-	43	32						
C. Gris Nez ...	1031.8	36	E	3	c	1035.3	+4	33	+3	E	4	+	o	3	-	37	30						
La Hève ...	1030.6	35	ENE	2	m	1034.5	+	33	-1	ENE	2	+	m	1	-	37	32						
Ushant ...																							
Brest (St. Mathieu) ...	1030.0	41	ENE	3	b	1033.1	0	38	-3	E	3	+	b	2	-	48	36						
Rochefort (Ile d'Aix) ...	1024.3	36	ENE	5	c	1028.6	+3	37	+4	NE	5	+	o	+	-	39	33						
Biarritz ...	1020.4	46	E	1	bc	1025.6	+2	35	0	ESE	2	+	o	1	-	50	34						
Paris ...	1029.2	34	N	2	b	1032.7	+4	30	0	NE	1	-	o	+	-	37	28						
Belfort ...	1027.3	30	E	4	bc	1031.1	+	30	+7	E	6	+	o	+	-	32	23						
Lyons ...	1026.7	29	-	0	o	1030.1	+	24	-5	NNW	1	+	o	+	-	32	25						
Nice ...	1020.8	42	E	3	b	1020.4	0	47	+11	-	0	+	c	3	-	54	37						
Perpignan ...	1020.7	46	N	1	o	1023.4	+5	39	-2	NNW	4	NE	o	+	5	50	37						
Sanguinaire ...		39	N	1	o		+	53	+4	E	2	+	o	3	-	61	49						
SOUTHERN EUROPE.																							
Corunna (7 a.m.) ...	1021.0	55	SW	1	p	1027.8	+4	45	-5	NE	5	N	b	3	-	55	45						
Madrid (8 a.m.) ...	1020.6	50	S	1	o	1024.3	+5	41	-2	MNE	3	-	b	+	1	52	36						
Lisbon (8 a.m.) ...	1022.0	57	WSW	2	b	1022.4	0	55	+1	N	1	-	o	6	-	59	55						
Gibraltar ...	1022.3	56	W	3	b	1019.6	+	56	+1	W	5	+	b	3	-	63	54						
Rome ...																							
Malta (8 a.m.) ...						1013.6	+3	66	0	ESE	6	-	r	4	Trace	73	64						
Azores (Horta, 8 a.m.) ...	1006.3	+	SSW	6	o	1009.1	0	58	-2	SSE	1	+	o	4	11	68	57						
Madeira (Funchal) ...	1021.9	68	N	2	o	1022.3	+1	61	-2	N	3	-	bc	3	-	73	61						

South Farnborough

Pilot Balloon Ascent at about 7 a.m.

500 metres E by N 25 miles per hour.

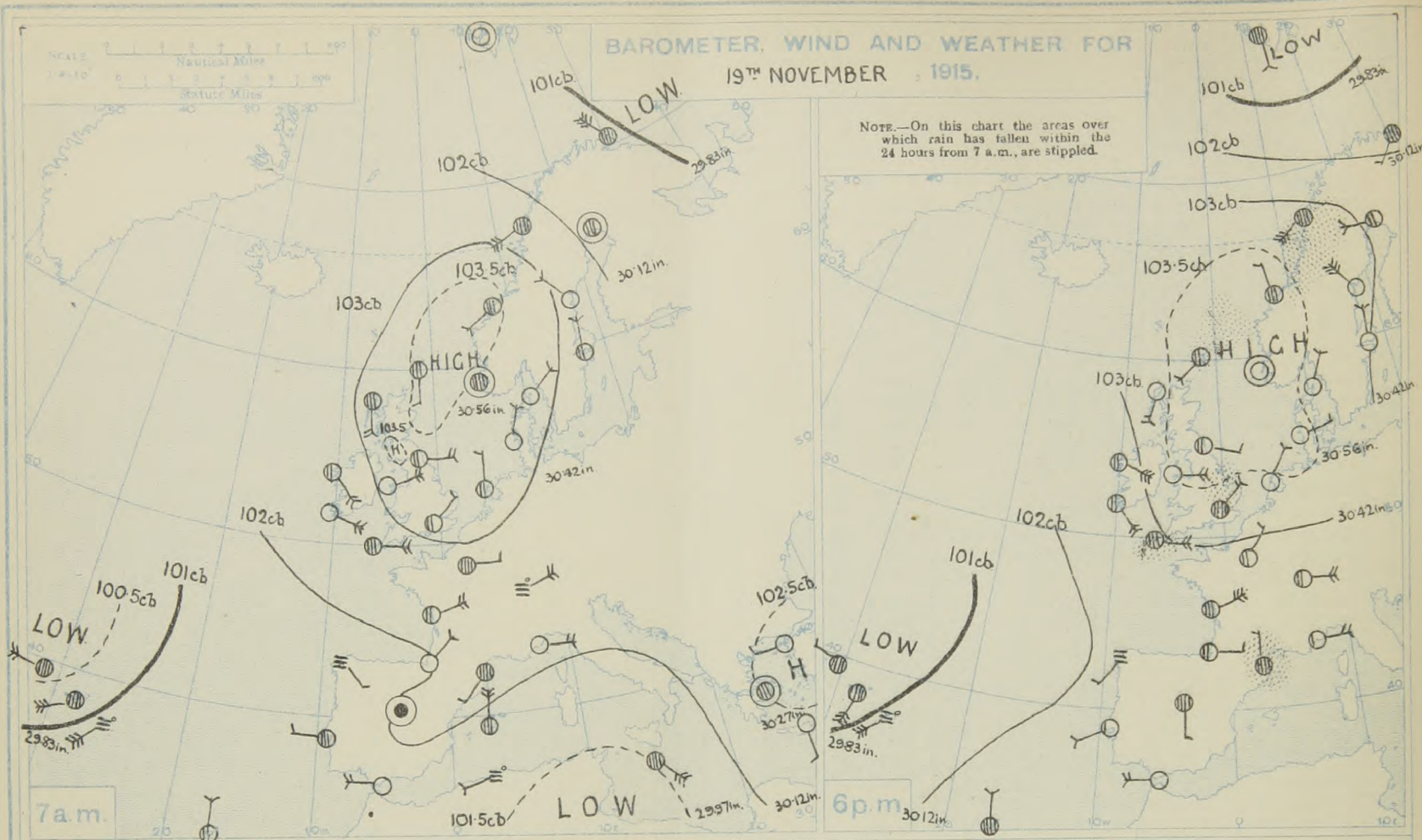
RAINFALL.	
Equivalents of Millimetres. in Inches.	
mm.	Inches.
1	0.04
2	0.08
3	0.12
4	0.16

## RAINFALL.

Equivalents of Millimetres.  
in Inches.

mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
19	0.75	44	1.73
20	0.79	45	1.77
21	0.83	46	1.81
22	0.87	47	1.85
23	0.91	48	1.89
24	0.95	49	1.93
25	0.98	50	1.97





**FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

No Warnings  
Issued.

Western Channel and Bay 11

- |    |            |  |
|----|------------|--|
| 0  | a }<br>b } | Southerly winds, moderate or light; fair; moderate temperature.                        |
| 1  | a }<br>b } | Variable light winds; some mist or fog, otherwise fair; moderately cold.               |
| 2  | a }<br>b } | Wind mainly Easterly, light or moderate; fair generally; moderately cold.              |
| 3  | a }<br>b } | South-Easterly winds, light or moderate; fair generally, some mist; moderately cold.   |
| 4  | a }<br>b } | Easterly winds, light or moderate; fair; moderate temperature.                         |
| 5  | a }<br>b } | Southerly winds, light to fresh, strong locally; fair generally; moderate temperature. |
| 6  | a }<br>b } | Easterly winds, light or moderate; sea moderate; fair generally.                       |
| 7  | a }<br>b } |  |
| 8  | a }<br>b } |  |
| 9  | a }<br>b } |  |
| 10 | a }<br>b } |  |

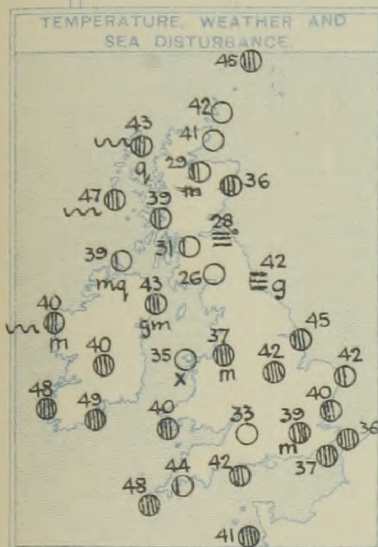
**FURTHER OUTLOOK.**



# SYNOPTIC CHART FOR 7 a.m., SATURDAY, 20<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

The weather of the United Kingdom will continue under the influence of the large anticyclonic system.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**WIND.**—Direction is shown by arrows flying with the wind.

Force, on the scale 0-12, is indicated by the number of feathers.

**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky & clouded. ○ sky & clouded.

○ sky & clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

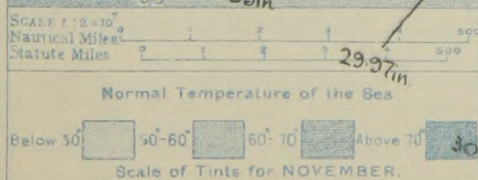
⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough ~~~. High ~~~~.

inches.  
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30

29



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LOW

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## DAILY WEATHER REPORT.

Saturday, 20th November, 1915.

REPORTS  
FOR  
YESTERDAY.

19th November.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
	mm. & ° F.	° F.				Hr.		mm. & ° F.	° F.				Hr.
Scotland.							Tunbridge Wells ...						
Oban ...	—	44	29	b	b	5.3	Margate ...	—	45	35	c.b	c	1.2
Banff ...	—	38	26	bc	bc	5.4	Ramsgate ...	2	42	36	c	c	1.2
Carnoustie ...	—	—	—	—	—	—	Hastings ...	1	44	35	op.b.c	b.b.c	6.1
St. Andrews ...	1	41	27	*	*	1.5	Bexhill-on-Sea ...	—	—	—	—	—	—
England, N.E.							Eastbourne ...	1	43	36	c.b.c	b.m	6.5
Harrogate ...	—	40	30	c.b.c	c.b.c	1.8	Seaford ...	2	42	32	b	b	6.6
Skegness ...	5	46	36	cp.v.o	o.c.o	1.5	Brighton ...	1	44	31	bc.b	b.b.c	7.2
England, N.W.							Worthing ...	1	43	32	b	b.b.c	7.7
Morecambe ...	—	40	32	b	b.b.c	4.4	Littlehampton ...	—	42	30	b	b	7.8
Blackpool ...	—	—	—	—	—	—	Bognor ...	1	43	32	b	b.b.c	7.8
Southport ...	—	39	29	bc	b	2.8	Southsea ...	1	43	32	b	b	7.2
England, Midlands.							Bournemouth ...	—	42	30	b	b	6.8
Buxton ...	—	44	29	c.b.c	bc	3.9	Weymouth ...	—	41	34	b	b.b.c	6.5
Leamington Spa ...	—	41	31	b	b	6.2	Torquay ...	—	45	36	o.c.b.c	bc.c.b.c	4.5
Malvern ...	—	42	30	b	b	7.2	Paignton ...	—	44	35	c.b.c	bc	3.5
Ross-on-Wye ...	—	—	—	—	—	—	Falmouth ...	1	45	34	o	op.b	0.6
England, Wales.							Penzance ...	0.3	43	36	bc	op.b.c	2.8
Rhyl ...	—	43	27	b	bc.c	5.5	Newquay ...	—	44	35	bc	b	7.0
Colwyn Bay ...	—	40	30	bc	bc	6.2	Ilfracombe ...	—	43	35	b	b	7.6
Llandudno ...	—	43	34	o.c.b	bc.c	6.3	Weston-super-Mare ...	—	49	29	b	b	6.0
Aberystwyth ...	—	47	35	b	bc	6.7							
Tenby ...	—	—	—	—	—	—							
England, S.													
Cromer ...	—	46	39	c.o	c	0.8							
Lowestoft ...	1	45	31	cv	cv	1.6							
Felixstowe ...	0.2	44	31	bc	bc.c.o	2.5							
Walton-on-Naze ...	—	44	29	bc	b.b.c.o	5.7							
Southend-on-Sea ...	1	45	29	bc	b.b.c.o	5.7							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.	Min. on Grass.	Min. on Grass.		Fore- noon.	After- noon.	Night.
Greenwich (Royal Obs.) ...	74	81	5.5	43	36	30	—	bc	bc.c.o	o.
City (Bunhill Row) ...	74	81	3.8	43	36	30	—	bc	bc.c.o	o.
Westminster (St. James's Pk.) ...	74	82	2.5	44	40	33	—	bc	bc.m	bc.m
Camden Sq. (Brit. Rainfall) ...	75	93	3.8	43	35	28	—	b.b.c	bc.b	*
Hampstead (Reservoir) ...	75	88	5.5	41	33	23	—	bc	bc	bc.c.o
Richmond Park ...	75	88	3.2	41	33	23	—	bc	bc	bc.c.o
Kew. (See front page.)	75	88	3.2	41	33	23	—	bc	bc	bc.c.o
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	69	81	2.4	266	Joules	8.5	Milliwatts.	19	Milliwatts.	

## Additional Observations for Yesterday.

STATIONS.	Rain- fall.	TEMPERATURE.		WEATHER.		Sun- shine for Yester- day.
		In Screen.	Night Min. on Grass.	Night.	Fore- noon.	
Dublin to 4 p.m.	mm. & ° F.	° F.	° F.			
Darwen to 9 p.m.	—	—	—	—	—	—
Manchester "	—	—	—	—	—	—
Birmingham "	—	—	—	—	—	—
Oxford to 8 p.m.	—	—	—	—	—	—
Teignmouth to 9 "	—	43	30	23	bc	bc
Plymouth "	—	44	37	23	bc	bc
S. Kensington (Museum Grounds to 6 p.m.)	1	43	33	20	c.b.c	bc

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

20th Nov. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.24	11.39	3.54
Greenwich ...	7.26	11.41	3.52
Wick ...	7.29	11.46	4.2
Valencia ...	8.11	12.27	4.43

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to between 40° and 45°, in most parts of the Kingdom, and the frost at night was generally slight. The day was fair or bright in most regions, and the sunshine records rather high.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies id. at M.O. and at the bookstalls at certain Railway Termini in London.



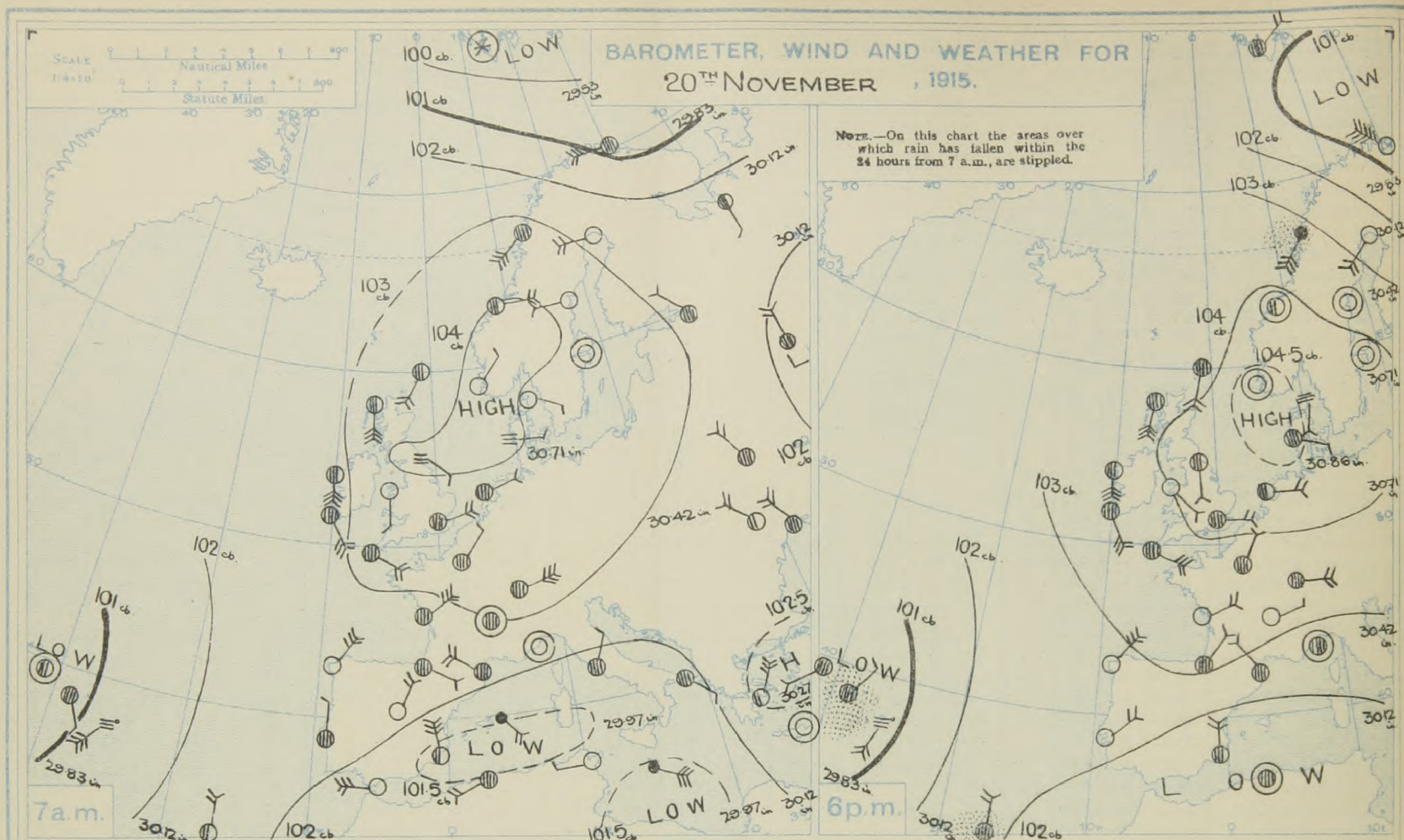
DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 325.

Sunday.  
21st November 1915.

STATIONS.	YESTERDAY EVENING						THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.						Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change in 24 hours.	WIND.	Force 0-12.	Dirac. of Upper Cloud.	Weather.	Sea 9-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
			Dirac.	Force 0-12.												Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.	Lerwick ...	1038.6	45	SSW	4	o	1036.3	-2	46	+1	SSW	4	-	om	4	-	46	39	c.bc	bc.c.o	c.om	Hours. 3.8	
	Deerness ...	1037.9	43	SSE	5	b	1035.9	-1	44	+2	S	4	-	c	4	-	45	43	b.bc	bc.b	b.bc.c	3.8	
	Stornoway ...	1036.6	44	SSW	6	og	1034.4	-1	45	+2	S	7	-	og	5	-	45	43	c.og	og	og	0.0	
	Castlebay (Barra Isd.)	1035.8	48	SSE	5	o	1034.6	0	47	0	S	4	-	o	5	-	48	46	c.o	o	o	0.0	
	Glasgow ...	1041.7	32	E	1	c	1041.9	+1	26	-5	ENE	1	NW	bc	Trace	36	24	b.bc.cm	c.bc.cm	c.bc.bc	1.0		
	Eskdalemuir ...	1042.9	29	NNW	1	b	1043.3	0	17	-9	-	0	-	bc	-	39	17	bc.bc	bc.b	b.bc.c	6.0		
	Malin Head ...	1035.9	41	SE	4	bc	1033.6	-3	42	+3	SW	5	SW	cmq	4	-	45	38	cmq	cmq	cmq	0.1	
	Blacksod Point	1031.6	47	S	6	cm	1032.0	0	48	+8	S	6	S	bcn	6	-	43	39	bcn	cm	bcn	0.1	
	Valencia ...	1032.8	49	SSE	5	og	1034.8	0	49	+1	SSE	5	-	o	4	-	50	48	o.og	c.og	og	0.1	
	Roche's Point	1037.0	48	ESE	5	o	1037.9	0	49	0	ESE	3	-	o	4	-	49	48	og	c.og	o	0.1	
	Birr Castle ...	1036.9	41	SE	3	c	1037.9	0	42	+2	SSE	2	-	o	4	-	48	39	c	c	c.o	3.6	
	Donaghadee ...	1039.0	42	S	3	bcn	1039.6	+1	43	0	S	3	-	om	3	-	45	41	ogm	cm.bcn	bcn.cm	0.1	
	Liverpool (Bidston)	1041.4	38	E	2	m	1042.4	0	34	-3	SE	2	E	bc	2	-	42	33	o.bcn	om	b.bcn	1.6	
	Holyhead ...	1029.9	46	SE	2	bz	1041.0	0	33	-2	E	2	-	bc	1	-	46	31	bc.c.o.b	bc.b	bc	4.0	
	Pembroke (St. Ann's)	1038.8	41	SE	4	c	1040.3	-1	39	-1	SE	4	SE	egg	4	-	46	38	c.bc	bcg.c	eg	3.8	
	Scilly (St. Mary's)	1036.8	48	ESE	5	om	1036.8	0	46	-2	ESE	4	E	o	4	-	49	44	om	om	om	0.0	
	Falmouth ...	1038.7	46	E	3	og	1038.4	-1	44	0	E	4	-	bc	5	-	46	43	b.o	o	o	0.1	
	Jersey (St. Aubin)	1036.7	42	ENE	4	o	1037.8	0	40	-1	NE	2	-	om	2	-	43	38	c.c	c.o	om	2.0	
	Portland Bill ...	1038.9	39	ENE	5	om	1039.7	-1	38	-4	ENE	3	-	o	4	-	43	37	c	om	m.c	0.1	
	Dungeness ...	1039.7	41	NE	4	c	1038.1	-2	39	+2	ENE	4	-	o	4	-	43	37	o.c	o.c	bc.o	0.1	
	Dover ...	1039.7	40	NE	4	c	1040.0	-1	37	+1	ENE	3	NE	o	4	-	42	36	o.c	bc.c.o.c	c.b.c.o	2.7	
NORTH EUROPE.	Wick ...	1037.7	44	SSE	3	bc	1036.0	-1	44	+3	SSW	3	-	c	3	-	45	40	bc	bc	bc	0.1	
	Nairn ...	1038.5	31	-	0	cm	1037.1	0	36	+7	-	0	-	cg	0	0.4	39	27	bcn	bcn	bcn	2.6	
	Aberdeen ...	1041.2	40	SSW	2	eg	1040.0	0	37	+1	SSW	2	NW	cg	2	-	43	35	bc.c	bc.c	cg.bz	1.0	
	Leith ...	1042.0	34	SSW	1	m	1042.4	-1	26	-2	SW	1	-	m	0	-	35	24	z	z	z	0.1	
	Tynemouth ...	1042.1	42	S	2	cm	1042.4	0	36	-6	SW	2	-	bm	3	-	44	36	c	cm	z	0.1	
	Spurn Head ...	1042.9	44	ESE	3	cg	1042.3	-1	44	-1	SE	2	-	o	2	-	45	43	c.o	o.c	o.cg	0.0	
	Yarmouth ...	1041.5	42	ESE	4	bc	1041.0	-2	40	-2	ESE	5	-	o	5	-	44	39	bc	bc	bc.o	7.4	
	Clacton-on-Sea	1041.4	42	ENE	3	c	1040.6	-2	41	+1	ENE	4	E	o	3	-	43	39	c	c	c.o	2.9	
	Nottingham ...	1042.4	37	ENE	1	b	1042.4	0	33	-9	E	1	-	om	0	-	46	28	o.c.b	c.b	b.bc	2.8	
	Bath ...	1040.4	31	E	2	b	1041.3	0	35	+2	E	2	E	o	0	-	42	30	m.b.bc	bc.bm	b.b.c.o	4.5	
FRANCE, &c.	Sth Farnborough	1040.9	37	E	1	o	1040.4	-1	37	+1	NE	2	-	og	0	-	41	34	o.be	b.o	o	3.6	
	London (Kew Obsy.)	1041.4	39	E	3	om	1041.2	0	39	0	NE	3	-	o	0	-	41	36	om.cbm	b.bcm	om.o	0.3	
	Spitsbergen ...	1010.3	7	ENE	3	o	1017.9	+3	-11	-16	N	1	-	S	0	-	9	-13					
	Vardö ...	1009.7	37	NW	9	b	1017.0	0	32	-7	NW	5	-	S	4	-	39	19					
	Bodö ...	1035.0	43	SW	6	r	1031.1	-3	43	+2	SW	7	-	o	5	-	43	39					
	Christiansund	1047.5	39	-	0	bc	1047.8	-2	36	-1	-	0	-	b	3	-	43	34					
	Skudesnaes ...	1046.3	28	-	0	b	1043.9	0	37	+7	SE	4	-	o	2	-	39	28					
	Færder (X'tania Fjord)	1044.8	30	NNE	2	c	1043.9	-1	30	+2	N	2	-	f	1	-	30	28					
	The Scaw (Skagen)	1044.3	36	SSW	2	f	1045.6	-1	34	0	W	2	-	m	2	-	41	32					
	Blaavands Huk	1045.3	34	ESE	1	o	1046.0	0	34	+7	E	1	-	o	1	-	34	27					
SOUTHERN EUROPE.	Haparanda ...	1027.8	39	SW	4	bc	1029.1	0	30	-2	WSW	2	-	bc	0	-	41	28					
	Hernösand ...	1029.3	32	-	0	b	1028.9	-1	30	-2	-	0	-	b	0	-	41	28					
	Stockholm ...	1041.2	32	-	0	b	1041.9	0	27	-3	WSW	2	-	f	0	-	36	27					
	Wisby ...	1041.6	39	NW	2	b	1043.5	0	37	-2	NNW	2	-	b	0	-	39	34					
	Karlstad ...	1043.3	25	-	0	b	1044.8	-1	25	0	-	0	-	o	0	-	34	12					
	Petrograd (5 a.m. G.M.T.)	1032.3	34	W	4	s	1033.7	+1	32	+4	WNW	4	-	o	0	-	34	28					
	The Helder ...	1043.0	36	E	3	c	1043.0	0	34	-2	E	3	-	o	2	-	39	34					
	C. Gris Nez ...	1029.9	33	E	3	bc	1028.6	-1	32	-1	E	4	-	o	3	-	39	30					
	La Hève ...	1037.0	35	ENE	2	m	1038.3	0	32	-1	ENE	2	-	m	1	-	39	32					
	Ushant ...	1036.8	39	NE	2	b	1039.3	+1	33	-5	NE	3	-	b	2	-	48	32					
AZORES &c.	Roche fort (Ile d'Aix)	1032.6	36	ENE	4	b	1033.7	0	35	-2	ENE	4	-	bc	0	-	39	34					
	Biarritz ...	1020.3	41	NE	2	o	1031.3	-1	38	+3	SE	2	-	b	2	-	43	35					
	Paris ...	1037.3	37	NNE	2	o	1037.5	0	36	+6	ENE	2	-	o	0	-	37	30					
	Belfort ...	1035.5	32	E	4	o	1037.0	0	31	+1	E	5	-	o	0	-	34	30					
	Lyons ...	1035.3	28	ENE	1	b	1035.9	0	26	+2	-	0	-	b	0	-	33	24					
	Nice ...	1025.0	54	-	0	o	1026.9	0	53	+6	-	0	-	c	3	-	57	45					
	Perpignan ...	1028.0	46	WNW	4	o	1029.1	+1	46	+7	NW	2	-	o	0	-	46	39					
	Sanguinaire ...	1028.2	54	NE	5	b	1029.1	0	41	-4	S	1	-	b	2	-	54	37					
	Corunna (7 a.m.)	1028.2	54	NE	5	b	1029.1	0	41	-4	S	1	-	b	2	-	54	37					
	Madrid (8 a.m.)	1024.2	59	NE	3	b	1025.1	0	46	-9	NNE	4	-	b	0	-	63	46					
AZORES &c.	Lisbon (9 a.m.)	1024.2	59	NE	3	b	1025.1	0	46	-9	NNE	4	-	b	0	-	63	46					
	Gibraltar ...	1015.1	0	64	-2	SSW	5	-	r	5	5	70	61										
	Rome ...	1005.3	0	NE	1	o	1006.6	-2	58	0	N	4	-	o	2	-	61	57					
	Malta (8 a.m.)	1021.5	68	M	3	o	1018.7	0	63	+2	-	2	-	o	0	-	72	61					
	Azores (Horta, 8 a.m.)	1005.3	0	NE	1	o	1006.6	-2	58	0	N	4	-	o	2	-	61	57					
	Madeira (Funchal)	1021.5	68	M	3	o	1018.7	0	63	+2	-	2	-	o	0	-	72	61					

RAINFALL.			
Equivalents of Millimetres.			
In Inches.			
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.62
17	0.67	42	1.66
18	0.71	43	1.69
19	0.75	44	1.73
20	0.79	45	1.77
21	0.83	46	1.81
22	0.87	47	1.85
23	0.91	48	1.89
24	0.95	49	1.93
25	0.98	50	1.97





FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Coast.	South Coast.
North Coast.	North Coast.

No Warnings

Issued.

Western Channel and Bay

- |   |   |
|---|---|
| 0 | a } Wind mainly Southerly, moderate to fresh or strong; much cloud, some showers later; rather mild.                              |
| 1 | b } Wind mainly Southerly, light to moderate; mostly fair, some mist; moderate temperature.                                       |
| 2 | a } Wind South-Easterly, light to moderate; overcast, then fairer; moderate temperature.  |
| 3 | b } Wind mainly Easterly, veering towards South-East later, light or moderate; overcast, then fairer; moderately low temperature. |
| 4 | a } Southerly winds, light to fresh; mostly fair to overcast; temperature rising.   |
| 5 | b } Wind between East and South-East, light or moderate; fair generally, some mist locally; moderate temperature.                 |
| 6 | a } Southerly winds; light to fresh or strong; cloudy or overcast generally, some rain in west later; rather mild.                |
| 7 | b } Easterly and South-Easterly winds, light or moderate; sea moderate; cloudy to fair.   |

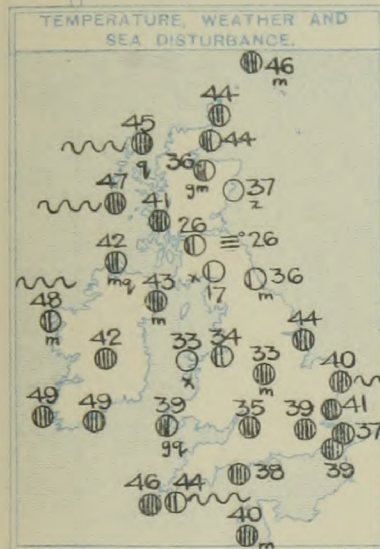
FURTHER OUTLOOK.



# SYNOPTIC CHART FOR 7 a.m., SUNDAY, 21<sup>ST</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

It appears probable that depressions on the Atlantic will encroach more and more on our north-western districts.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

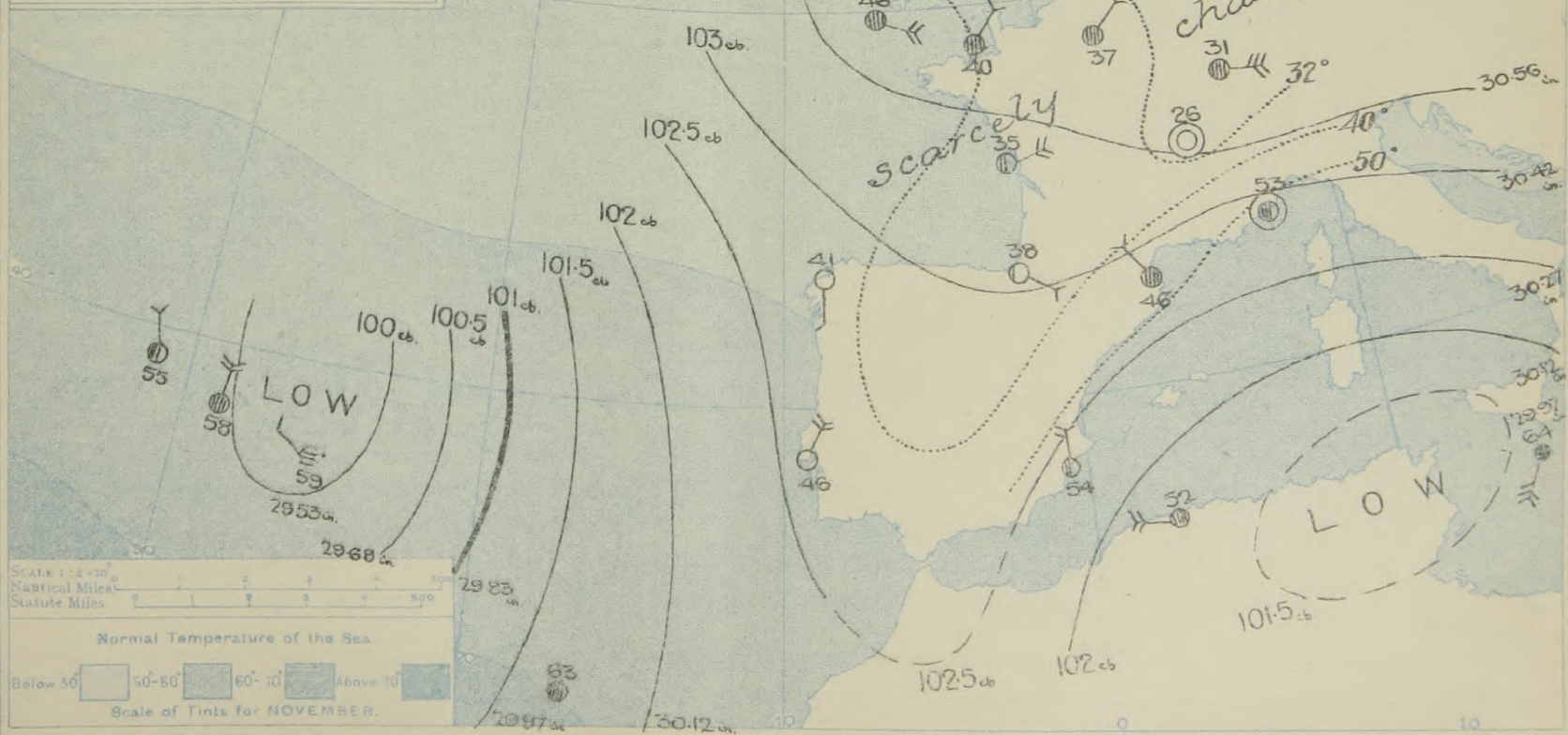
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm.

**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky & clouded. ○ sky & clouded. ○ sky & clouded. ○ overcast sky. ● rain falling. \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder. T, thunderstorm.

**SEA DISTURBANCE.**—Rough wavy. High wavy.





# DAILY WEATHER REPORT.

Sunday, 21<sup>st</sup> November, 1915.

REPORTS  FOR  YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain- fall. Milli- metres.	TEMP.	
		Barom. Milli- bars at M.S.L.	TEMP.  ° F.	WIND.		Weather.	Barometer.  Milli- bars at M.S.L.	Change in 3 hours.	Day Bulb.  ° F.	Change in 24 hours.  ° F.	WIND.  Dirce. Force 0-12.	Dirce. of Upper Cloud.	Weather.	Sea 0-9.	Max.	Min.			
				Dirce.	Force 0-12.														
Petrograd ...	1023.3	23	NTM	2	0	1029.4	+4	28	-2	NTM	2	-	0	*	30	23			
Rome ...	1017.3	50	NE	1	7	1018.3	+1	50	-	NE	1	-	0	*	35	54 48			
30 <sup>th</sup> November																			

20<sup>th</sup> November

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.		
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.			
	mm. & .	° F.	° F.			Hr.		mm. & .	° F.	° F.			Hr.		
Scotland.	{ Oban ... ..	-	2	35	b.c	c	0.0	{ Tunbridge Wells ... ..	-	43	37	b.c	b.c	2.6	
	{ Banff ... ..	-	40	27	x.b	b.c	5.1		{ Margate ... ..	-	43	36	c	c	3.8
	{ Carnoustie ... ..						{ Ramsgate ... ..		-	42	36	o	b.c.c	1.7	
	{ St. Andrews ... ..				*	1 *	{ Hastings ... ..		-	42	36	o	b.c.c	1.7	
Eng. N.E.	{ Harrogate ... ..	-	42	34	o	o	0.0	England, S.E.	{ Bexhill-on-Sea ... ..	-	42	35	o	o.b.c	0.0
	{ Skegness ... ..		46	37	c	o	0.1		{ Eastbourne ... ..	-	41	35	a	c	2.4
Eng. N.W.	{ Morecambe ... ..						{ Seaford ... ..		-	42	34	o.b.c	b.b.c.o	3.4	
	{ Blackpool ... ..						{ Worthing ... ..		-	41	35	c.b.c	b.c	3.1	
	{ Southport ... ..	-	36	29	o.c.b.c	c.b.c.b	0.5		{ Littlehampton ... ..	-	42	36	b.c	b.o	2.5
Midlands.	{ Buxton ... ..	-	39	28	b.c	b.c	2.6		{ Bognor ... ..	-	42	37	o	c.b.o	2.5
	{ Leamington Spa ... ..		46	31	b.b.c	b.c.b	7.0		{ Southsea ... ..						
	{ Malvern ... ..						{ Bournemouth ... ..		-	40	32	o.c.b	b.c	1.5	
	{ Ross-on-Wye ... ..	-	44	29	b.x.m	b.c.b	6.8								
Wales.	{ Rhyl ... ..								{ Weymouth ... ..	-	40	35	o.c	c	0.0
	{ Colwyn Bay ... ..						{ Torquay ... ..	-		43	37	o	c.o	0.0	
	{ Llandudno ... ..						{ Paignton ... ..	-		44	37	o	o	0.0	
	{ Aberystwyth ... ..	-	45	30	o.c.b	c.o	6.2	{ Falmouth ... ..		-	46	39	b.o	o	0.1
	{ Tenby ... ..	-	45	38	b.c	b.c	6.1	{ Penzance ... ..		-	48	38	o	o	0.0
England, E.	{ Cromer ... ..							{ Newquay ... ..	2	43	7	b.b.c	o	0.7	
	{ Lowestoft ... ..						{ Ilfracombe ... ..		-	44	35	b	b.b.c	6.9	
	{ Felixstowe ... ..	0.2	43	39	b.c	b.c	5.0		{ Weston-super-Mare ... ..						
	{ Walton-on-Naze ... ..	-	42	39	b.c	b.c	4.5								
	{ Southend-on-Sea ... ..	-	42	37	c.b.c.b	b.b.c.c	2.1								

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 76	% 86	Hr. 1.2	* F. 43	* F. 36	* F. 30	mm. & -			
City (Bunhill Row) ...	*	*	2.1	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	84	88	0.8	44	38	35	-	b.c	b.c	b.m.m
Camden Sq. (Brit. Rainfall)	79	85	0.5	42	35	30	-	b	b.c	*
Hampstead (Reservoir) ...	*	84	3.0	41	34	23	-	0.0	c.o	o
Richmond Park ...	*	*	1.7	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	75	84	2.1	Total. 24.6 Joules		Average Rate. 7.9 Milliwatts.		Max. Rate. 25 Milliwatts.		

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

	Sunrise.	Noon.	Sunset.
21 <sup>st</sup> & 22 <sup>nd</sup> Nov 1915.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.26	11.39	3.52
Greenwich ...	7.20	11.34	3.50
Wick ...	7.24	11.46	4.1
Valencia ...	8.16	11.58	3.40
	8.18	12.27	4.42
	8.18	12.27	4.42

## NOTES ON YESTERDAY'S WEATHER.

In most districts temperature remained below 45°, locally below 40°. The weather was dry, but varied from dull and sunless in many places to fine and bright in others, Yarmouth returning 7½ hours of sunshine.

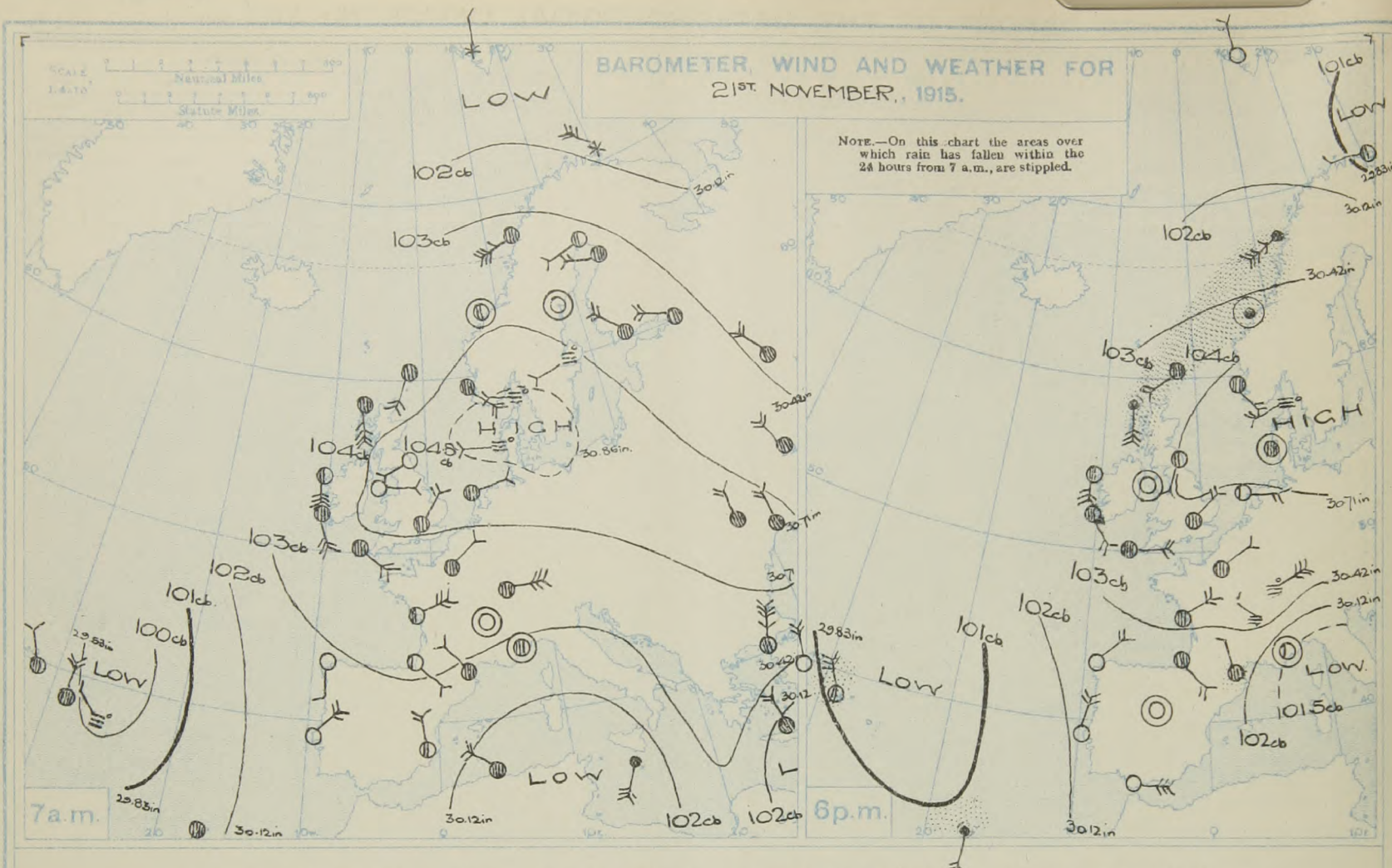
NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; i. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at M.O. and at the bookstalls at certain Railway Termini in London.



\* The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

FORECAST DISTRICTS.



STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Coast.	South Coast.
North Coast.	North Coast.

No Warnings Issued.

Western Channel and Bay 11

FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division

NAPIER SHAW, Director

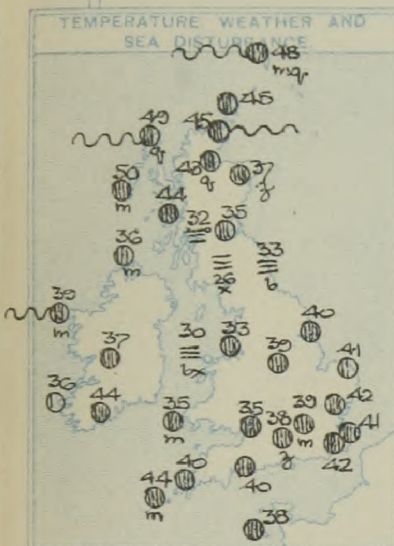
- |   |   |
|---|---|
| <p>0 {<br/>a }<br/>b }</p> <p>1 {<br/>a }<br/>b }</p> <p>2 {<br/>a }<br/>b }</p> <p>3 {<br/>a }<br/>b }</p> <p>4 {<br/>a }<br/>b }</p> <p>5 {<br/>a }<br/>b }</p> <p>6 {<br/>a }<br/>b }</p> <p>7 {<br/>a }<br/>b }</p> <p>8 {<br/>a }<br/>b }</p> <p>9 {<br/>a }<br/>b }</p> <p>10 {<br/>a }<br/>b }</p> | <p>South-Westerly and Westerly winds, moderate or strong, high locally; much cloud, some rain and mist; rather mild.</p> <p>South-Westerly to Westerly winds, light or moderate, cloudy or overcast; moderate temperature.</p> <p>Wind variable locally, but mainly Easterly, light or moderate; much cloud, some mist, then fairer; no important change of temperature.</p> <p>Southerly and South-Westerly winds, light or moderate; much cloud, some mist, rain locally; moderate temperature.</p> <p>Easterly to Southerly winds, light; mist or fog locally, then fairer; rather cold.</p> <p>Easterly winds, light or moderate; dull to fairer; rather low temperature.</p> <p>Same as No. 8.</p> <p>Wind between East and South, light to moderate; sky variable; moderately cold.</p> <p>Easterly winds, light or moderate; sea moderate; dull to fairer.</p> |
|---|---|



# SYNOPTIC CHART FOR 7 a.m., MONDAY, 22<sup>ND</sup> NOVEMBER, 1915.

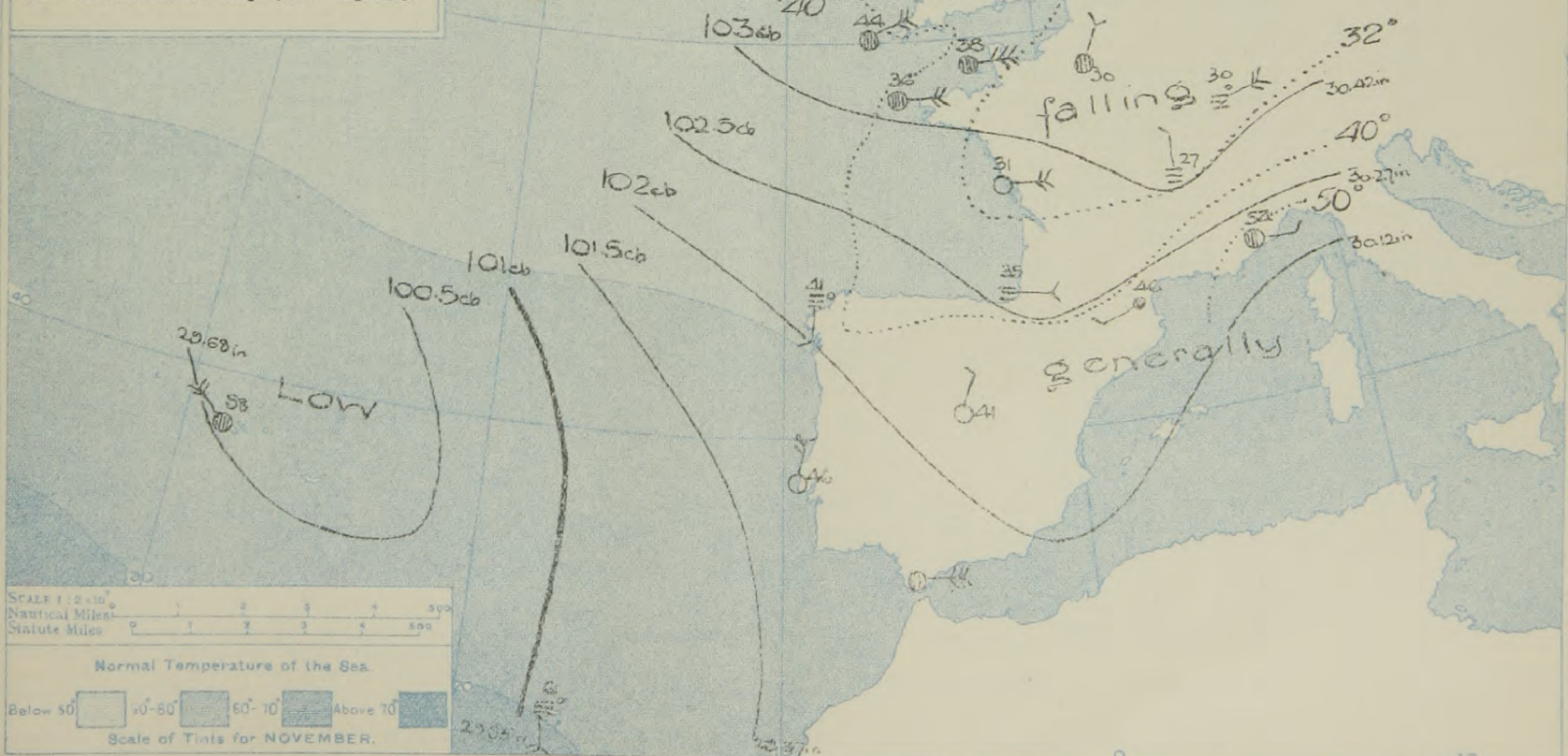
## GENERAL INFERENCE.

It appears probable that the extension of cyclonic conditions to England will be very gradual.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm   
**TEMPERATURE.**—Given in degrees Fahrenheit.  
 Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.  
 ○ sky 1/2 clouded. ○ overcast sky. ○ rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 R, thunderstorm.  
**SEA DISTURBANCE.**—Rough High





# PILOT BALLOON ASCENTS for the PAST WEEK. Component Velocities to East and to North in Metres per Second.

Station Date & Hour.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.	Comp. to E.	Comp. to N.
Station	15h	7.20h	16h	13h	17h	7.30h	17h	8h	17h	12.15h	17h	13h	18h	13h	19h	7.30h	19h	15.45h	20h	13h
Heights in Kilometres.	4	+2	-9										-3	-12						
	3	+8	-4	+1	-4	+3	-14						-3	-10					-3	+9
	2	+5	-7	+1	-4	+4	-10						-1	-4	-3	-7	-8	-2	-14	+4
	1.5	+5	-7	-5	-8	+2	-8	+1	-16	-2	-6	-7	-6	-5	-2	-14	-4	-17	-5	-4
	1	+5	-5	-2	-5	-2	-11	+8	-19	0	-7	-1	-2	-3	-6	-10	-1	-11	-4	0
	0.5	+5	-5	-2	-5	-2	-11	+8	-19	0	-7	-1	-2	-3	-6	-10	-1	-11	-4	0
	0	+3	-1	0	-2	+2	-1	+6	-5	0	0	0	0	0	-2	+1	-1	-1	-1	0

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.	
Scotland.						
Oban ...	...	44	33	0	0	0.0
Banff ...	0.1	43	34	0.7	0.7	0.0
Carnoustie ...	...	...	...	...	...	...
St. Andrews ...	...	...	...	...	...	...
Eng. N.E.						
Harrogate ...	...	40	35	0.0	0.0	0.0
Skegness ...	...	42	40	0.0	0.0	0.1
Eng. N.W.						
Morecambe ...	...	...	...	...	...	...
Blackpool ...	...	37	27	b.c.	b.c.	2.5
Southport ...	...	37	23	b.c.	b.c.	0.4
Midlands.						
Buxton ...	...	...	...	...	...	...
Leamington Spa ...	...	39	29	0	0	0.0
Malvern ...	...	36	31	0	0	0.0
Ross-on-Wye ...	...	36	31	0	0	0.0
Wales.						
Rhyl ...	...	38	28	0	0	5.5
Colwyn Bay ...	...	38	26	b.c.	b.c.	6.5
Llandudno ...	...	...	...	...	...	...
Aberystwyth ...	...	41	27	0.0	0.0	6.5
Tenby ...	...	...	...	...	...	...
England, S.W.						
Cromer ...	...	...	...	...	...	...
Lowestoft ...	...	...	...	...	...	...
Felixstowe ...	...	42	40	0.0	0.0	0.0
Walton-on-Naze ...	...	41	39	0.0	0.0	0.1
Southend-on-Sea ...	...	41	36	0	0	0.0
England, S.E.						
Tunbridge Wells ...	...	...	...	...	...	...
Margate ...	...	42	38	0	0	0.0
Ramsgate ...	...	39	26	0	0	0.0
Hastings ...	...	40	25	b.c.	0	0.0
Bexhill-on-Sea ...	...	...	...	...	...	...
Eastbourne ...	...	44	36	0	0	0.0
Seaford ...	...	...	...	...	...	...
Brighton ...	...	40	35	0.0	0.0	0.0
Worthing ...	...	44	35	0	0	0.0
Littlehampton ...	...	41	36	0	0	0.0
Bognor ...	...	42	37	0	0	0.0
Southsea ...	...	41	36	0	0	0.0
Bournemouth ...	...	40	32	0	0	0.0
Weymouth ...	...	40	35	0	0	0.0
Torquay ...	...	44	39	0	0	0.0
Paignton ...	...	41	37	0	0	0.0
Falmouth ...	...	45	38	0.0	0.0	0.0
Penzance ...	...	...	...	...	...	...
Newquay ...	...	...	...	...	...	...
Ilfracombe ...	...	38	33	b.c.	0	1.5
Weston-super-Mare ...	...	...	...	...	...	...

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obsy.) ...	%	%	Hr.	° F.	° F.	° F.	mm. §			
City (Bunhill Row) ...	80	87	0.0	40	38	34	-	0	0.0	0
Westminster (St. James's Pk.)	82	87	0.0	42	39	37	-	0	0	0
Camden Sq. (Brit. Rainfall)	-	86	0.0	41	38	36	-	-	-	0
Hampstead (Reservoir) ...	82	90	0.0	38	34	28	-	0.0	0.	0.0
Richmond Park ...	82	88	0.0	38	34	28	-	0.0	0.	0.0
Kew. (See front page.)	82	88	0.0	38	34	28	-	0.0	0.	0.0
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
				Total.		Average Rate.		Max. Rate.		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				100 Joules		3.3 Milliwatts.		6 Milliwatts.		
S. Kensington (Roof of M.O.)	82	85	0.0	38	34	28	-	0.0	0.	0.0

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.		WEATHER.		Sun- shine for Yester- day.
		Max.	Min.	Night.	Fore- noon.	
Dublin to 4 p.m.	...	42	34	2.9	b.c.	...
Darwen to 9 p.m.	...	...	...	...	...	...
Manchester "	...	...	...	...	...	...
Birmingham "	...	...	...	...	...	...
Oxford to 8 p.m.	...	...	...	...	...	...
Teignmouth to 9 "	...	...	...	...	...	...
Plymouth "	...	43	34	...	0	0.0
S. Kensington	...	41	37	2.9	0.0	...
(Museum Grounds to 6 p.m.)	...	...	...	...	...	...

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON  
AND SUNSET FOR STATIONS IN THE UNITED KINGDOM  
TO-DAY AND TO-MORROW.

22 <sup>nd</sup> 23 <sup>rd</sup> Nov. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.28	11.39	3.50
Greenwich ...	7.29	11.39	3.49
Wick ...	7.31	11.46	4.1
Valencia ...	7.32	11.46	4.0
	8.18	11.58	3.38
	8.20	11.58	3.36
	8.24	12.27	4.29
	8.24	12.27	4.29

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in some parts of the Kingdom, but few places had much frost at night. Scarcely any bright sunshine was recorded except in Wales where the day was bright. Abnormally heavy rain has fallen at Malta.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-baze, or smoke.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies id. at M.O. and at the bookstalls at certain Railway Termini in London.



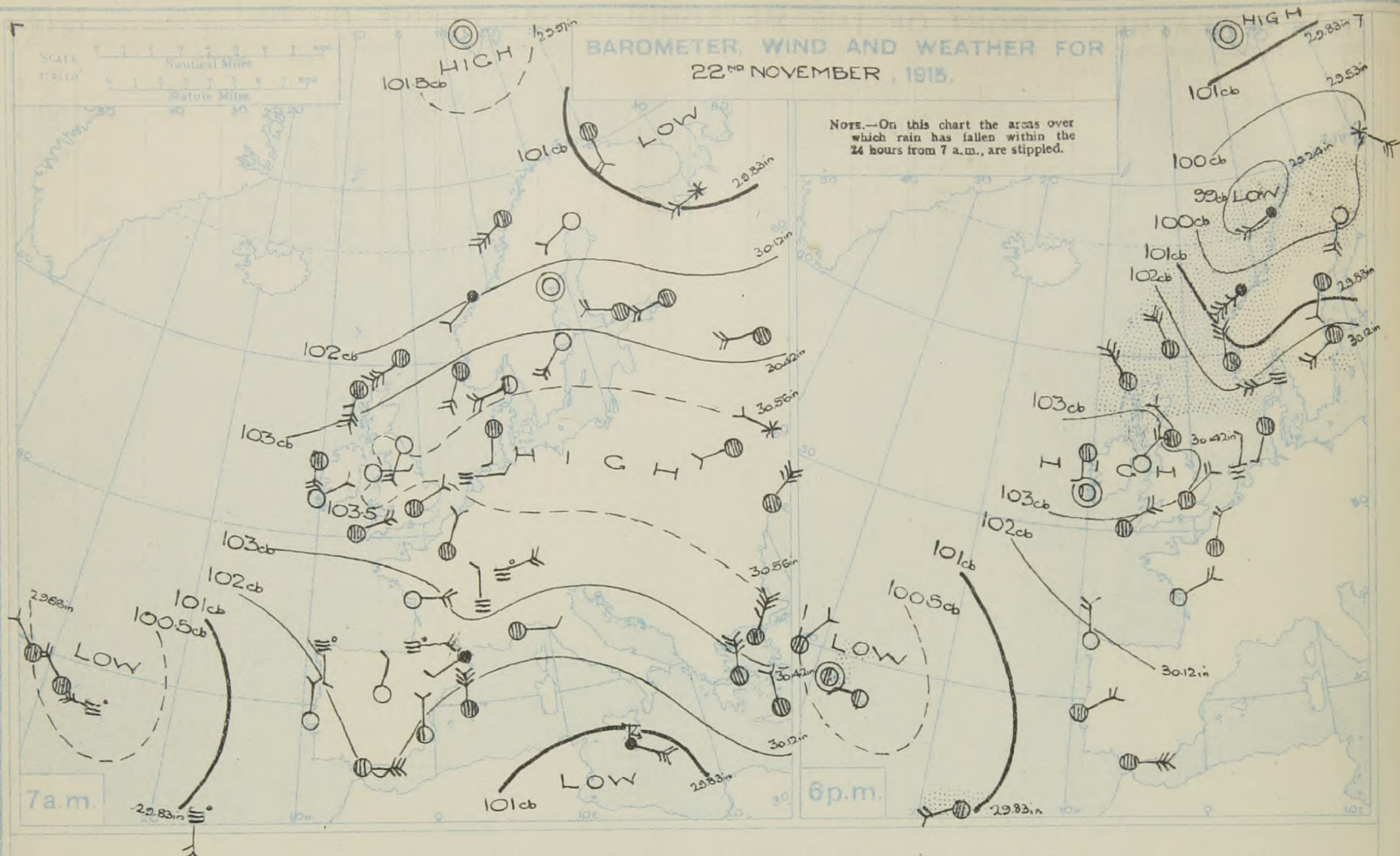
	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
				Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick	1020.5	46	NW	5	C	1023.7	0	36	-12	NW	0	0	5	4	50	34	over	over	over	Hour.	
	Deerness	1024.4	45	N	4	OC	1022.7	0	37	-8	NNW	7	0	5	2	49	37	over	do	0	0.0	
	Stornoway	1028.7	46	NW	5	C	1038.0	+4	39	-10	N	5	0	4	3	51	39	over	over	over	0.0	
	Castlebay (Barra Is.)	1029.2	51	N	3	C	1031.4	+1	44	-6	NE	4	0	4	1	51	43	over	over	over	0.0	
	Glasgow	1030.6	40	SW	2	m	1029.1	-2	36	+4	E	2	0	1	0.3	41	30	f	f	me	0.0	
	Eskdalemuir	1031.4	32	0	0	over	1028.3	0	34	+8	0	0	0	1	0.3	35	25	f	f	me	0.0	
	Malin Head	1031.3	44	SW	3	over	1030.4	0	48	+12	N	4	NE	4	1	49	36	over	over	over	0.0	
	Blacksod Point	1031.7	44	3	1	over	1031.3	0	48	+9	N	2	NE	3	1	48	36	over	over	over	0.3	
	Valencia	1031.0	37	0	0	0	1030.6	0	30	-6	NE	1	NE	4	1	48	30	over	over	over	3	
	Roche's Point	1032.1	40	NE	2	0	1030.8	0	32	-12	NE	2	NE	2	1	44	30	over	over	over	0	
	Birr Castle	1032.6	35	E	1	m	1031.6	0	34	-3	0	0	0	1	1	39	32	over	over	over	1.1	
	Donaghadee	1031.7	36	N	3	of	1028.0	0	47	+9	NNW	4	0	3	1	47	35	over	over	over	0	
	Liverpool (Bidston)	1030.8	33	0	0	0	1027.9	-1	34	+6	NW	1	0	1	1	40	32	over	over	over	0.0	
	Holyhead	1030.5	41	NE	3	over	1028.6	-1	47	+17	N	2	0	1	0.1	47	29	over	over	over	1.3	
	Pembroke (St. Ann's)	1031.1	37	ENE	1	over	1027.0	0	40	+5	N	1	0	1	1	40	33	over	over	over	2.9	
	Scilly (St. Mary's)	1028.2	45	ENE	4	over	1026.6	-1	42	-2	ENE	2	E	3	1	46	40	over	over	over	0.0	
	Falmouth	1029.1	40	NE	2	over	1027.2	-2	36	-4	ENE	1	0	1	1	40	34	over	over	over	0.0	
	Jersey (St. Aubin)	1027.4	40	ENE	3	over	1024.8	0	45	+7	E	3	0	3	1	45	35	over	over	over	0.2	
	Portland Bill	1029.2	41	ENE	3	over	1026.3	-2	31	-9	N	2	0	3	1	42	31	over	over	over	0.0	
	Dungeness	1028.1	43	NE	4	0	1025.0	0	34	-8	NE	3	0	3	1	47	34	over	over	over	0.0	
	Dover	1028.3	42	N	4	0	1026.1	+2	33	-8	NW	3	0	2	1	47	33	over	over	over	4.0	
Wick	1025.9	46	SW	2	0	1028.6	+4	38	-7	NNW	4	0	4	2	49	39	over	over	over	0		
Nairn	1027.1	46	N	1	over	1030.6	0	39	-4	N	2	0	3	1	47	37	over	over	over	0.0		
Aberdeen	1027.1	49	N	3	C	1028.4	+3	41	+4	NW	4	0	2	0.2	50	36	over	over	over	0.0		
Leith	1030.2	42	WSW	1	0	1028.8	-1	39	+4	N	1	W	1	Trace	43	34	over	over	over	0		
Tynemouth	1028.8	38	NNW	4	over	1025.9	-2	41	+8	NW	2	0	3	1	41	32	over	over	over	0		
Spurn Head	1030.6	39	NW	1	f	1026.1	-1	40	0	N	4	0	3	1	42	33	over	over	over	0.0		
Yarmouth	1028.6	43	ENE	2	C	1024.7	-2	36	-5	NNW	2	0	2	1	45	34	over	over	over	1.8		
Clacton-on-Sea	1029.5	41	NNE	2	0	1025.6	-1	33	-9	NNW	2	0	1	1	45	32	over	over	over	0.0		
Nottingham	1030.3	37	E	1	0	1027.4	0	29	-10	WSW	1	SW	1	1	40	27	over	over	over	0.0		
Bath	1030.3	36	NE	2	0	1027.9	0	29	-6	N	1	0	1	1	45	29	over	over	over	0.0		
Sth Farnborough	1029.7	37	NE	3	0	1027.3	0	30	-8	NW	2	0	1	1	39	30	over	over	over	0.0		
London (Kew Obs.)	1029.9	38	NE	3	0	1026.9	+1	32	-7	NW	2	0	1	1	41	31	over	over	over	0.0		
NORTHERN EUROPE.	Spitsbergen	1013.2	-17	0	0	0	1017.1	+4	-17	+9	0	0	0	1	1	-17	-27	0	0	0	0.0	
	Vardö	998.6	30	SE	5	3	990.0	+1	30	0	SE	6	0	5	1	30	30	0	0	0	0.0	
	Bodö	998.8	43	SW	4	0	982.1	+2	37	-6	SW	8	0	5	2.9	43	34	over	over	over	0.0	
	Christiansund	1004.3	45	SW	8	0	996.2	-6	37	-8	NW	10	0	5	1.7	46	36	over	over	over	0.0	
	Skudesnaes	1019.0	46	N	5	0	1014.1	-1	36	-7	NW	7	0	5	1	43	32	over	over	over	0.0	
	Færder (X'ania Fjord)	1015.4	41	SW	7	0	1003.8	+4	39	+5	NW	7	0	3	1	41	32	over	over	over	0.0	
	The Scaw (Skagen)	1022.0	37	WSW	5	f	1005.0	-6	41	+4	NNW	6	NW	6	1	43	36	over	over	over	0.0	
	Blaavands Huk	1028.7	37	SSW	1	0	1015.9	-4	45	+8	WNW	3	0	3	1	43	34	over	over	over	0.0	
	Haparanda	997.2	34	SSW	4	0	977.0	-3	30	+3	NNW	2	0	1	1	36	30	over	over	over	0.0	
	Härnösand	1003.0	36	SSW	2	0	988.8	-4	36	+1	SSE	6	0	1	1	39	34	over	over	over	0.0	
	Stockholm	1014.6	37	SW	4	0	995.0	-10	39	+3	SW	4	0	1	1	39	36	over	over	over	0.0	
	Wisby	1020.8	37	SW	6	C	1000.7	-13	39	+3	WSW	8	0	1	Trace	41	34	over	over	over	0.0	
	Karlstad	1016.2	39	WSW	4	0	998.1	-8	39	+2	N	6	0	1	1	41	36	over	over	over	0.0	
	Petrograd (5 a.m. G.M.T.)	1029.1	30	NNE	1	f	1022.1	0	45	+15	NW	1	0	1	1	45	30	over	over	over	0.0	
FRANCE, &c.	The Helder	1029.1	30	NNE	1	f	1022.1	0	45	+15	NW	1	0	1	1	45	30	over	over	over	0.0	
	C. Gris Nez	1029.1	30	NNE	1	f	1022.1	0	45	+15	NW	1	0	1	1	45	30	over	over	over	0.0	
	La Hève	1029.1	30	NNE	1	f	1022.1	0	45	+15	NW	1	0	1	1	45	30	over	over	over	0.0	
	Ushant	1029.1	30	NNE	1	f	1022.1	0	45	+15	NW	1	0	1	1	45	30	over	over	over	0.0	
	Brest (St. Mathieu)	1029.1	30	NNE	1	f	1022.1	0	45	+15	NW	1	0	1	1	45	30	over	over	over	0.0	
	Rochefort (Ile d'Aix)	1029.1	30	NNE	1	f	1022.1	0	45	+15	NW	1	0	1	1	45	30	over	over	over	0.0	
	Biarritz	1029.1	30	NNE	1	f	1022.1	0	45	+15	NW	1	0	1	1	45	30	over	over	over	0.0	
	Paris	1027.0	30	N	2	0	1025.0	+1	27	-3	NNE	1	0	1	1	37	27	over	over	over	0.0	
	Belfort	1027.0	30	N	2	0	1025.0	+1	27	-3	NNE	1	0	1	1	37	27	over	over	over	0.0	
	Lyons	1027.0	30	N	2	0	1025.0	+1	27	-3	NNE	1	0	1	1	37	27	over	over	over	0.0	
Nice	1027.0	30	N	2	0	1025.0	+1	27	-3	NNE	1	0	1	1	37	27	over	over	over	0.0		
SOUTHERN EUROPE.	Perpignan	1027.0	30	N	2	0	1025.0	+1	27	-3	NNE	1	0	1	1	37	27	over	over	over	0.0	
	Sanguinaire	1027.0	30	N	2	0	1025.0	+1	27	-3	NNE	1	0	1	1	37	27	over	over	over	0.0	
	Corunna (7 a.m.)	1018.9	54	N	3	0	1019.9	+1	43	+2	SSE	3	S	2	1	55	41	over	over	over	0.0	
	Madrid (8 a.m.)	1014.6	57	ENE	3	0	1014.9	0	52	+6	NE	3	0	5	1	61	46	over	over	over	0.0	
	Lisbon (9 a.m.)	1016.2	59	E	6	0	1016.2	0	39	0	E	6	0	4	1	66	58	over	over	over	0.0	
	Gibraltar	1016.2	59	E	6	0	1016.2	0	39	0	E	6	0	4	1	66	58	over	over	over	0.0	
	Rome	1016.2	59	E	6	0	1016.2	0	39	0	E	6	0	4	1	66	58	over	over	over	0.0	
	Malta (8 a.m.)	1016.2	59	E	6	0	1016.2	0	39	0	E	6	0	4	1	66	58	over	over	over	0.0	
	Azores (Horta, 8 a.m.)	1003.5	63	WSW	3	C	1008.0	0	56	-2	N	4										

## RAINFALL.

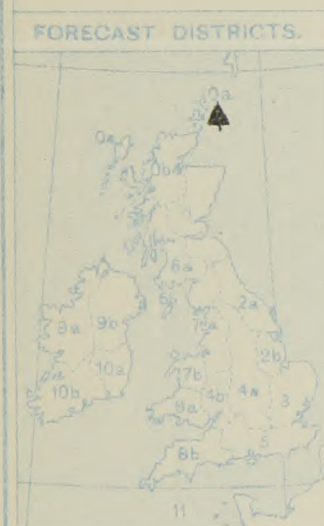
Equivalents of Millimetres.  
in Inches.

mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
19	0.75	44	1.73
20	0.79	45	1.77
21	0.83	46	1.81
22	0.87	47	1.85
23	0.91	48	1.89
24	0.95	49	1.93
25	0.98	50	1.97





FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.



**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

North Cone hoisted 5-day  
in Dist. 0a at 9.35 a.m.

Western Channel and Bay 11

0 } Strong North-Westerly winds, a gale in extreme north,  
1 } weather dull, with some rain; temperature rather cold.

2 } Moderate Northerly winds, freshening somewhat;  
3 } dull weather; temperature rather cold.

4 } Light Northerly or North-Easterly winds, and  
5 }  
6 }  
7 } dull, misty weather; temperature about normal.

8 } Light North-Easterly winds; sea smooth; weather  
9 } dull, with some fog.  
10 }

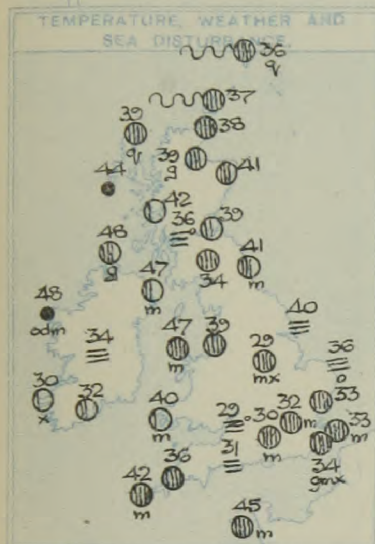
**FURTHER OUTLOOK.**



# SYNOPTIC CHART FOR 7 a.m., TUESDAY, 23<sup>RD</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

The depression over Norway is spreading towards the south-west and will occasion strong winds or gales in the extreme north of Scotland, and some increase of wind down the east coast.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm.

**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

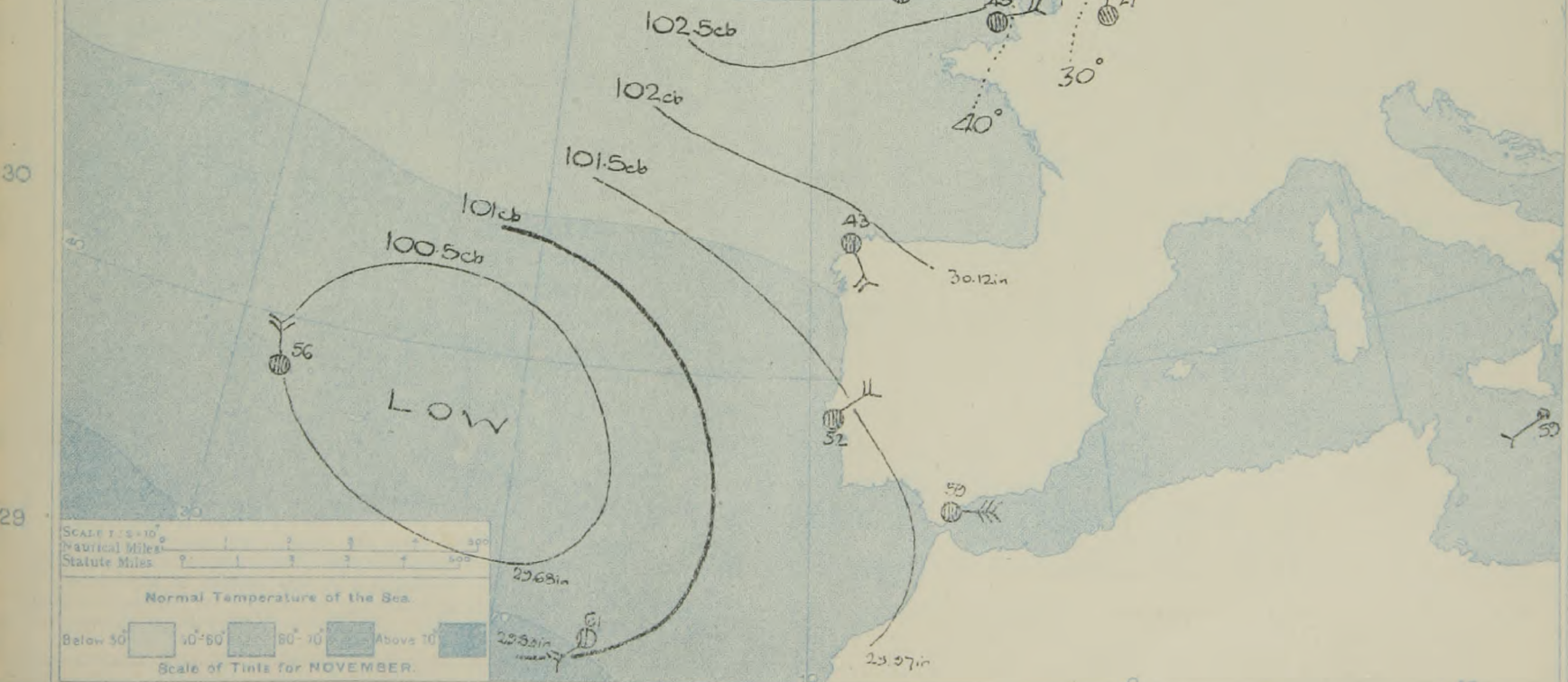
**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky 1/4 clouded. ○ sky 1/2 clouded. ○ sky 3/4 clouded. ○ overcast sky. ○ rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

K, thunderstorm.

**SEA DISTURBANCE.**—Rough wavy line. High wavy line.





# DAILY WEATHER REPORT.

Tuesday, 23<sup>rd</sup> November 1915.

REPORTS FOR YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.											
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 2½ hours. ° F.	Direc.	Force 0-12.					Max.	Min.
			° F.						° F.									
	Petrograd	1033.2	34	WNW	3	0	1024.4	-.4	36	+.4	W	4	0	0	0	0	36	30
22nd November.																		

22<sup>nd</sup> November.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		°F.	°F.						°F.	°F.			
Scotland.							Tunbridge Wells ...		45	34			14
Oban ...		47	39	0	0.0	0.0	Margate ...		45	38	bc	c	15
Banff ...		47	35	c	c	0.0	Ramsgate ...		47	36	bc. b	bc. 0	4.9
Carnoustie ...		42	31	0	0	0.0	Hastings ...		47	37	0. bc	bm	4.0
St. Andrews ...							Bexhill-on-Sea ...						
England, N.E.							Eastbourne ...		47	37			4.0
Harrogate ...		37	32	0	cbc	0.0	Seaford ...		47	37	ac. bc	bc. bc	2.5
Skegness ...		43	39	0	0	0.0	Brighton ...		46	37	0. bc	bc	3.1
England, N.W.							Worthing ...		45	37	0	bc. bc	3.0
Morecambe ...		33	22	f	f	0.0	Littlehampton ...		45	38	0	bc. b	2.4
Blackpool ...		34	27	om	om	0.0	Bognor ...		43	38	0	0	0.5
Southport ...		34	28	0	0	0.0	Southsea ...		41	36	0	0	0.0
Midlands.							Bournemouth ...						
Buxton ...		35	28	c	om	0.0							
Leamington Spa ...		38	35	0	0	0.0	Weymouth ...		40	36	0	0	0.0
Malvern ...		36	33	0	m	0.0	Torquay ...		41	38	0	0	0.0
Ross-on-Wye ...		36	33	0	0	0.0	Paignton ...		42	37	0	0	0.0
Wales.							Falmouth ...		40	36	0	0	0.0
Rhyl ...		35	23	m	m	0.0	Penzance ...		42	38	0	0	0.0
Colwyn Bay ...		36	24	c. b	0	0.2	Newquay ...		39	32	0	0	0.5
Llandudno ...		42	24	0. c. b	c. 0	5.2	Ilfracombe ...		39	32	0	0	0.5
Aberystwyth ...		41	37	bc. 0	bc	1.4	Weston-super-Mare ...		31	0	0	0	0.0
Tenby ...													
England, E.													
Cromer ...		45	40	c	bc. c	1.5							
Lowestoft ...		41	39	om	om	0.3							
Felixstowe ...		45	39	c. og	og. m	0.0							
Walton-on-Naze ...		44	39	0.	0	0.0							
Southend-on-Sea ...													

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
	%	%	Hr.	° F.	° F.	° F.	mm. §			
Greenwich (Royal Obs.) ...	87	50	0.0	42	31	31	-	om. 0	o. c	o
City (Punhill Row) ...	%	%	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	84	90	0.0	45	32	32	-	m	m	umc
Camden Sq. (Brit. Rainfall)	86	-	0.0	42	31	31	-	om. 0	o. g m	*
Hampstead (Reservoir) ...	%	100	0.0	39	28	24	-	o	o	of. of
Richmond Park	...	%	%							
Kew. (See front page.)										
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
				Total.		Average Rate.		Max. Rate.		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				151 Joules		49 Milli-watts.		12 Milli-watts.		
S. Kensington (Roof of M.G.)	86	95	0.0	151		49		12		

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

22 <sup>nd</sup> Nov. 1915	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T. 7.29	G.M.T. 11.39	G.M.T. 3.49
Greenwich ...	7.31	11.40	3.48
Wick ...	7.34	11.47	3.59
Valencia ...	8.20	11.58	3.36
	8.22	11.59	3.35
	8.15	12.27	4.29
	8.17	12.28	4.28

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 50° in Scotland, whi minima of about 30° were experienced in most districts. The day was dull and misty with little sunshine, except along the south-east coast.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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. snow; t. thunder; u. ugly, threatening sky; v. visibility; u. unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 328.

Wednesday  
24th November 1915.

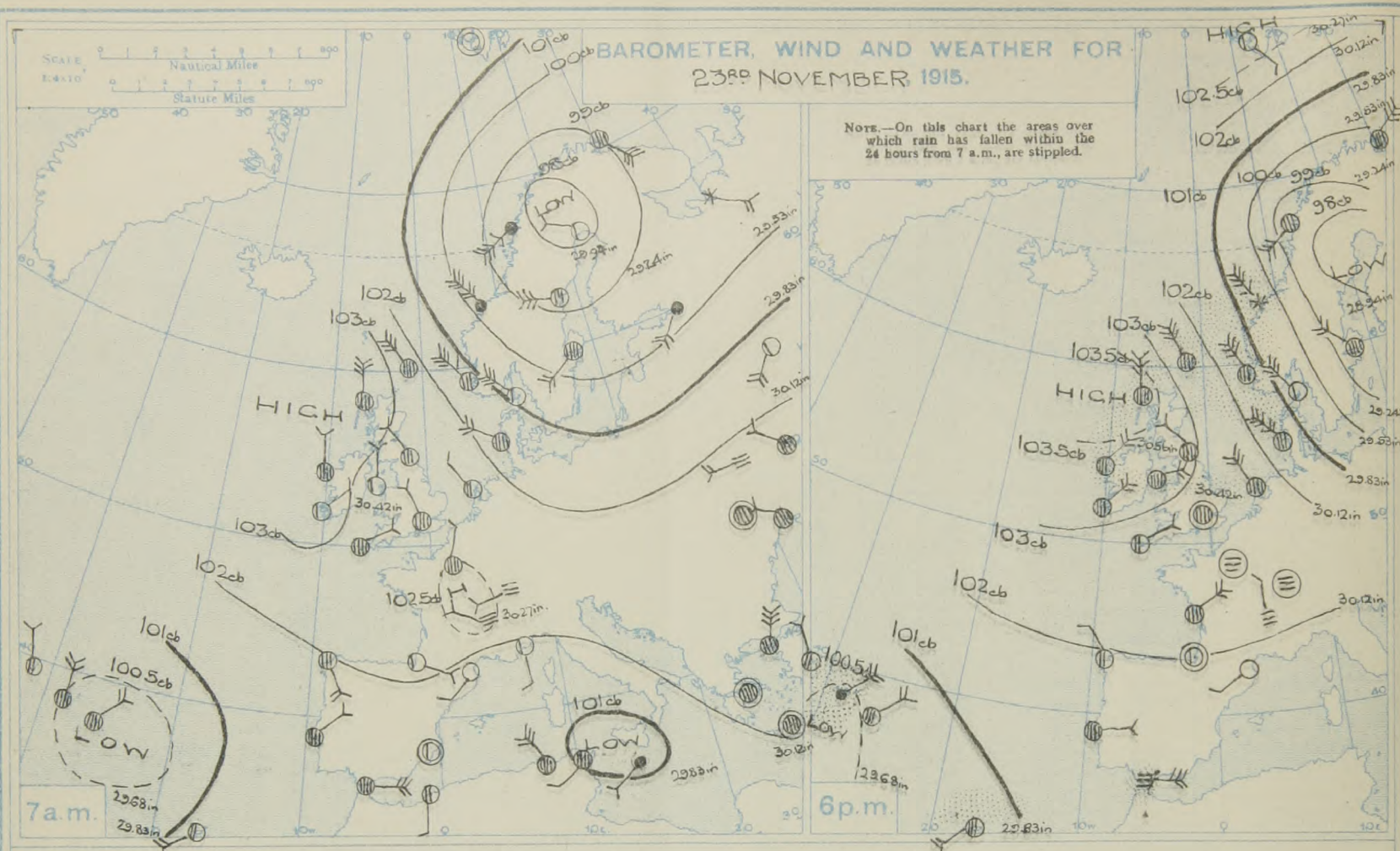
	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Force 0-12.	Diren. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
				Dir.	Force 0-12.				°F.	°F.							Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick ...	1028.1	34	NNW	6	og	1029.6	0	36	0	NNW	4	-	0	3	0.3	37	30	og	og, sp	0	Hours.
	Deerness ...	1030.8	35	NNW	7	o	1031.1	0	37	0	NW	5	-	0	4	-	44	35	o.c	c.o	0	0.0
	Stornoway ...	1036.3	37	N	5	og	1035.7	0	36	-3	N	2	-	0	4	-	39	36	og	og	0	0.0
	Castlebay (Barra Isd.)	1033.5	39	N	4	op	1033.7	0	39	-5	NNE	3	-	0	3	Trace	44	37	r.o	op	0	0.0
	Glasgow ...	1033.0	34	NE	2	b	1034.9	0	27	-9	WSW	1	-	bc	-	Trace	41	26	m.e.c	c.bc	0	0.9
	Eskdalemuir ...	1032.9	31	N	3	b	1034.8	0	25	-9	NNW	1	-	b	-	-	41	25	o.c.o	bc b	0	3.5
	Malin Head ...	1033.5	43	NNE	5	omg	1034.3	0	40	-8	ENE	3	N	cm	3	-	48	38	cg	cmg	0	1.0
	Blacksod Point ...	1033.8	44	NE	4	cmu	1034.4	0	39	-9	NE	2	NE	cm	3	1	48	37	cm	cm p	0	-
	Valencia ...	1031.1	47	NE	4	c	1032.5	0	38	-8	ENE	2	SE	0	3	-	49	29	b	bc	c.bc.o	4.5
	Roche's Point ...	1031.2	46	N	2	o	1032.1	0	43	+11	NNE	2	-	0	2	-	47	32	of.c.o	om.o	0	-
	Birr Castle ...	1032.0	42	N	1	o	1033.7	0	36	+2	-	0	-	0	-	1	43	34	fe	fe.o	c.o	0.0
	Donaghadee ...	1031.1	46	ENE	3	ogm	1033.8	0	39	-8	ESE	4	-	omg	2	-	48	39	bc m	bc om	0	-
	Liverpool (Bidston)	1030.5	42	NNE	1	o	1033.7	0	34	-5	NNE	2	E	bc	1	-	43	32	om	om	0	0.0
	Holyhead ...	1030.1	46	ENE	4	om	1033.6	+1	38	-9	SSW	3	-	0	2	Trace	52	37	om bc	bc com	0	1.8
	Pembroke (St. Ann's)	1029.3	46	NNE	1	opd	1032.0	+2	42	+2	ENE	2	-	om	2	-	49	39	om	om	0	2.5
	Scilly (St. Mary's)	1026.5	46	NE	2	bc m	1028.9	+1	49	+7	E	4	E	cm	4	-	50	41	om	bc m	bc m om	4.5
	Falmouth ...	1027.5	40	NE	1	b	1031.2	+2	45	+9	NE	1	-	c	-	-	49	35	o.c.b	b	bc m	5.2
	Jersey (St. Aubin)	1025.3	44	NE	1	f	1025.0	0	46	+1	NE	3	-	0	3	-	46	42	om	o.c of	c.o	0.0
	Portland Bill ...	1027.2	42	NE	4	og	1031.0	+1	37	+6	NE	2	-	b	3	-	44	30	f bc	bc om	om bc	-
	Dungeness ...	1026.0	39	NNW	2	om	1029.4	0	32	-2	NW	2	N	bc	2	-	39	31	om	om	om c.bc	-
	Dover ...	1026.8	40	NW	4	m	1028.6	+1	36	+3	NW	5	NW	b	3	-	41	35	mo	om	mo bc b	0.0
	Wick ...	1031.8	37	N	4	o	1031.8	0	37	-1	N	3	-	0	3	-	40	34	og	og	og	-
	Nairn ...	1034.1	37	N	3	om	1034.0	0	37	-2	N	2	-	og	2	-	39	35	om	om.o	g. om	0.0
	Aberdeen ...	1031.7	37	NNW	4	o	1032.0	0	36	-5	NW	4	-	0	2	0.3	41	35	cop	om p	op s	0.0
	Leith ...	1032.9	38	NNE	1	c	1034.0	0	30	-9	SSW	1	SW	bc	-	-	41	30	om bc	o.c b	c bc c	-
	Tynemouth ...	1030.1	40	NW	3	om	1030.9	0	36	-5	NNW	4	-	ogm p	5	-	44	36	c.o	om	ogm	-
	Spurn Head ...	1028.1	42	NE	6	c	1029.5	0	38	-2	N	6	-	og p	6	2	45	36	og p	og bc	og p	0.6
Yarmouth ...	1027.6	43	NNE	5	c	1027.1	0	39	-3	NNE	4	-	bc	4	1	46	36	of bc	of cg	cg m o	0.8	
Clacton-on-Sea ...	1027.2	41	NNW	3	o	1029.3	0	37	+4	NW	3	N	0	2	-	42	31	ogm	og m	og m bc	0.0	
Nottingham ...	1029.6	41	NNE	3	c	1031.6	0	38	+9	NNW	3	NW	0	-	0.2	45	28	odoc	cm	c.o	0.0	
Bath ...	1028.7	43	E	-	o	1031.6	0	34	+5	E	-	NE	c	-	-	43	29	m.o.c	ogm	m g o.c	og	
Sth Farnborough ...	1028.2	38	NW	1	m	1030.6	0	35	+5	NNW	2	-	og	-	-	41	30	om	m	m.c.o	0.0	
London (Kew Obsy.)	1028.8	41	-	0	om c	1030.9	+1	37	+5	N	2	N	om	-	-	43	30	om	om om c	om c.o	0.0	
NORTHERN EUROPE.	Spitsbergen ...	1028.3	79	SSE	1	b	1024.7	+2	-9	+8	-	0	-	b	-	-	79	26	-	-	-	-
	Vardö ...	980.0	27	ENE	6	o	1003.8	+3	25	+8	NE	6	-	0	4	-	30	25	-	-	-	-
	Bodö ...	985.5	41	SW	5	c	997.7	+5	32	-5	E	4	-	0	2	-	41	32	-	-	-	-
	Christiansund ...	1008.6	36	NW	8	s	1013.9	+2	36	-1	NW	7	-	c	6	10	37	32	-	-	-	-
	Skudesnaes ...	1013.6	37	NNW	10	c	1015.5	0	34	-2	N	10	-	s	5	3	37	25	-	-	-	-
	Færder (X'ania Fjord)	1001.5	39	ENE	6	bc	1005.6	+3	37	-2	NW	5	-	b	2	-	41	37	-	-	-	-
	The Scaw (Skagen)	1003.1	37	NW	6	b	1006.9	+3	39	-2	NNW	6	-	b	6	-	41	37	-	-	-	-
	Blaavands Huk ...	1012.6	37	NW	9	c	1012.0	0	39	-6	N	9	-	0	6	Trace	45	34	-	-	-	-
	Haparanda ...	977.7	30	N	2	o	990.7	+5	21	-9	N	6	-	0	-	1	32	19	-	-	-	-
	Hernösand ...	982.4	34	N	4	o	991.3	+8	28	-8	NNW	6	-	m	-	1	37	27	-	-	-	-
FRANCE, &c.	Stockholm ...	986.0	30	NW	4	bc	989.0	+2	36	-3	NNW	4	-	0	-	1	41	30	-	-	-	-
	Wisby ...	989.7	39	NNW	9	c	992.2	+1	37	-2	NW	8	-	0	-	Trace	41	32	-	-	-	-
	Karlstad ...	993.9	37	N	4	b	998.9	+5	36	-3	NNW	6	-	0	-	-	39	30	-	-	-	-
	Petrograd (5 a.m. G.M.T.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	The Helder ...	1022.7	43	NNW	5	o	1023.0	0	41	-4	NNW	6	-	0	4	1	46	39	-	-	-	-
	C. Gris Nez ...	1027.3	43	N	4	m	1027.7	+1	40	0	N	5	-	b	5	-	45	39	-	-	-	-
	La Hève ...	1026.3	39	ENE	2	m	1028.3	0	41	+5	NE	2	-	0	2	-	43	36	-	-	-	-
	Ushant ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Brest (St. Mathieu)	1026.1	44	NE	2	m	1029.5	+1	43	+2	ENE	4	-	b	2	-	46	37	-	-	-	-
	Rochefort (Ile d'Aix)	1022.9	35	ENE	4	o	1025.2	+2	31	-	ENE	4	-	0	-	-	36	30	-	-	-	-
Biarritz ...	1020.0	48	-	0	b	1022.4	+1	46	+2	NNW	3	-	0	1	-	37	45	-	-	-	-	
Paris ...	1025.6	31	-	0	f	1027.4	+2	37	+10	NNE	2	-	0	-	-	37	27	-	-	-	-	
Belfort ...	1026.1	28	-	0	f	1026.9	0	27	-1	WSW	2	-	f	-	-	31	26	-	-	-	-	
Lyons ...	1025.2	30	N	1	f	1026.1	0	28	-1	N	1	-	0	-	-	30	28	-	-	-	-	
Nice ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Perpignan ...	1017.7	52	SW	1	b	1017.9	+1	54	+17	NW	4	-	b	-	-	57	37	-	-	-	-	
Sanguinaire ...	-	67	E	3	bc	-	0	54	-	E	4	-	0	4	-	68	46	-	-	-	-	
SOUTHERN EUROPE.	Corunna (7 a.m.)	1019.7	55	NW	1	bc	1022.9	+1	41	-2	S	2	-	b	1	-	57	41	-	-	-	-
	Madrid (8 a.m.)	1019.7	54	-	0	o	1024.2	+2	43	-	-	0	-	b	-	-	55	39	-	-	-	-
	Lisbon (9 a.m.)	1016.4	59	E	2	o	1018.3	+1	35	+3	E	2	-	0	5	-	61	52	-	-	-	-
	Gibraltar ...	1019.3	59	E	5	m	1019.3	0	50	-9	E	4	-	0	3	1	60	58	-	-	-	-
	Rome ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Malta (8 a.m.)	-	-	-	-	-	1012.0	+1	61	+2	N	4	-	b	4	3	66	57	-	-	-	-
	Azores (Horta, 8 a.m.)	1004.8	-	NE	4	r	1001.1	0	59	+3	NNE	5	-	r	4	21	59	57	-	-	-	-
	Madeira (Funchal)	1009.3	66	SW	3	o	1009.5	+1	63	+2	SW	4	-	r	4	12	70	63	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-</																		

## RAINFALL.

Equivalents of Millimetres.  
in Inches.

mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
19	0.75	44	1.73
20	0.79	45	1.77
21	0.83	46	1.81
22	0.87	47	1.85
23	0.91	48	1.89
24	0.95	49	1.93
25	0.98	50	1.97





### FORECASTS FOR THE 24 HOURS NOON WEDNESDAY TO NOON THURSDAY.

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

North Cone hoisted yesterday at 9.35 a.m. in Dist. 0a.

Western Channel and Bay 11

- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | Moderate or fresh North-Westerly winds, with dull weather; some snow showers; temperature cold. |
| 1  | b |   |   |
| 2  | a | } | Moderate or fresh Northerly winds; squally, showery weather; rather cold.                       |
| 3  | b |   |   |
| 4  | a | } | Moderate Northerly winds; weather cloudy; temperature cold.                                     |
| 5  | b |   |   |
| 6  | a | } | Light North-Easterly winds; fair weather, with some mist; cold.                                 |
| 7  | b |   |   |
| 8  | a | } | Moderate North-Easterly winds; sea slight; variable sky, fair to dull.                          |
| 9  | b |   |   |
| 10 | a | } |   |
| 11 | b |   |   |

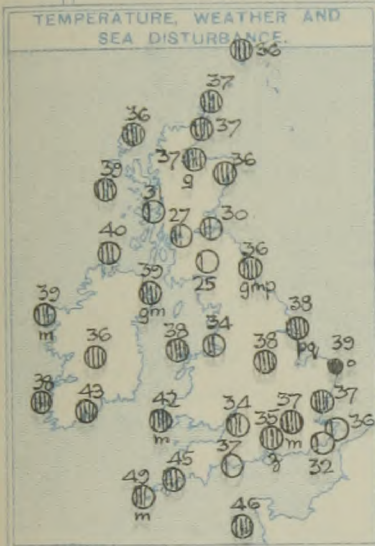
#### FURTHER OUTLOOK.



# SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 24<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE

The Scandinavian depression has ceased to extend to the south-westward. Conditions over the British Isles will remain without much change.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**WIND.**—Direction is shown by arrows flying with the wind.

Force, on the scale 0-12, is indicated by the number of feathers. Calm.

**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded. ○ sky 1/2 clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

K, thunderstorm.

**SEA DISTURBANCE.**—Rough wavy. High wavy.

Inches.  
— 31

30

29

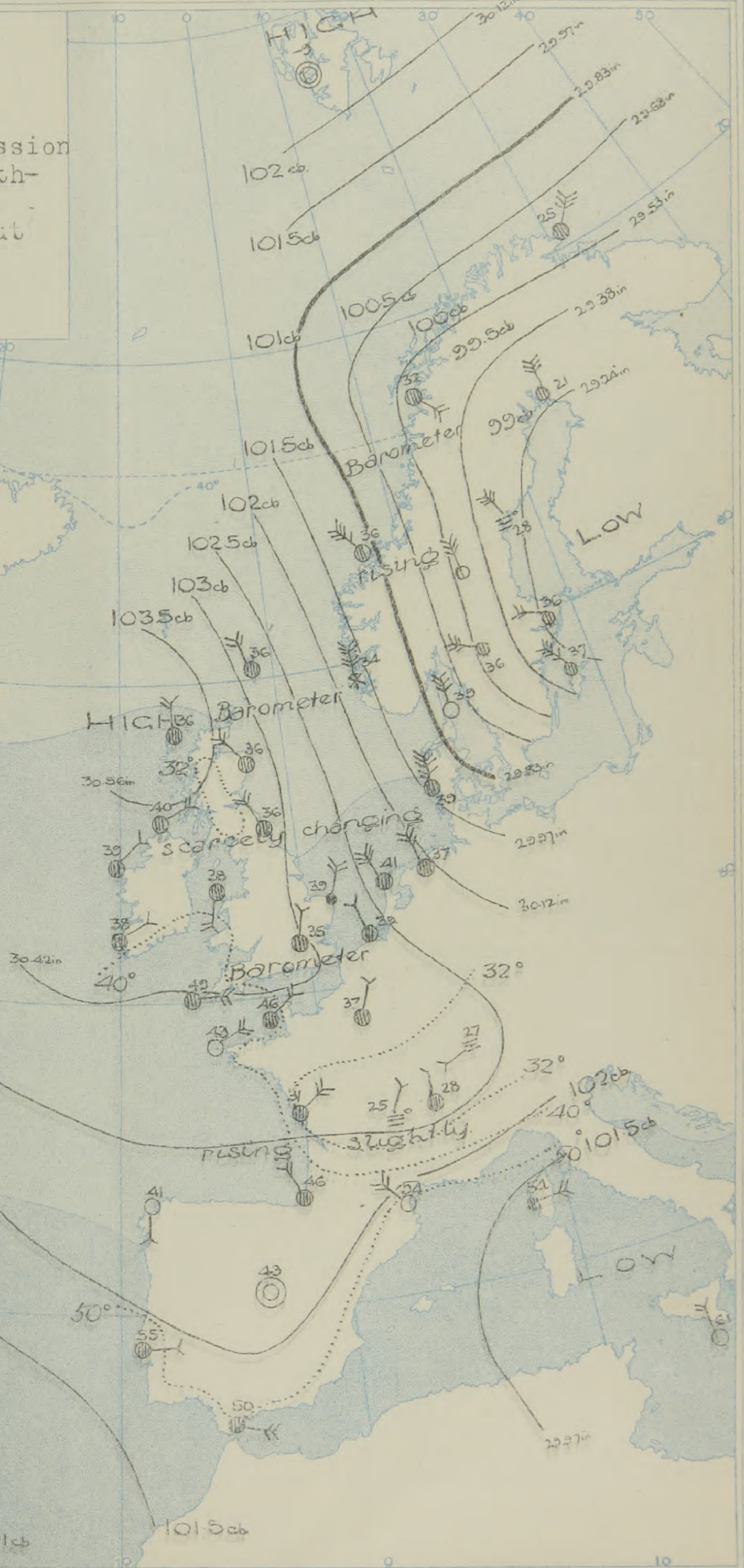
SCALE 1:250,000  
Nautical Miles  
Statute Miles

Normal Temperature of the Sea.

Below 50 50-60 60-70 Above 70

Scale of Tints for NOVEMBER.

Direct



10



## DAILY WEATHER REPORT.

Wednesday 24<sup>th</sup> November, 1915.

REPORTS  FOR  YESTERDAY.  23 <sup>rd</sup> November	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain- fall. Milli- metres.	TEMP.	
		Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change to 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.							
																			° F.
	Petrograd ...	1016.3	34	N	2	0	997.9	-9	37	+1	SW	4	-	r	4	2	37	22	
	C. Grig Neg ...	1027.8	44	NE	4	0	1024.6	0	40	+8	N	4	-	0	3	-	45	29	
	La Hève ...	1024.7	37	ENE	2	0	1024.8	0	36	+3	ENE	2	-	0	1	-	39	22	
	Brest ...	1027.8	36	ESE	2	0	1025.7	0	41	+5	NE	2	-	0	2	-	41	36	
	Biarritz ...	1024.2	43	E	2	0	1024.4	0	44	+9	ENE	2	-	0	1	-	48	37	
	Belport ...	1027.3	30	ENE	4	0	1024.4	0	28	-2	WSW	2	-	0	1	-	33	28	
	Lyons ...	1026.9	29	N	1	0	1025.2	0	29	+2	NW	2	-	0	1	-	30	29	
	Nice ...	1018.6	33	N	0	0	1017.7	0	51	-3	S	1	-	0	3	-	64	59	
	Perpignan ...	1019.1	48	N	1	0	1019.1	0	37	-9	SW	1	-	0	1	-	59	36	

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		°F.	°F.						°F.	°F.			
Scotland.	Oban ...	4	43	34	bc. b	2.2	Tunbridge Wells ...	...	45	35	o	o	0.0
	Banff ...	2	41	37	ukp	0.0	Margate ...	...	39	33	o	og	0.0
	Carnoustie ...	...	...	...	...	...	Ramsgate ...	...	41	32	f	o	0.0
	St. Andrews ...	...	...	...	...	...	Hastings ...	...	...	...	...	...	...
Eng. N.E.	Harrogate ...	...	45	31	o.c	0.0	Bexhill-on-Sea ...	...	...	...	...	...	...
	Skegness ...	1	47	29	nd	1.1	Eastbourne ...	...	39	32	og	ogd f	0.0
Eng. N.W.	Morecambe ...	...	41	27	f.c. bc	2.1	Seaford ...	...	42	37	o	o	0.0
	Blackpool ...	...	39	31	omc	0.9	Brighton ...	...	42	32	o.c	o.c.o	0.0
	Southport ...	...	39	30	o.c.o	0.0	Worthing ...	...	39	32	o. bc	m	0.9
	...	...	...	...	...	...	Littlehampton ...	...	39	30	o	og.c.o	2.5
Midlands.	Buxton ...	...	41	30	of	0.0	Bognor ...	...	40	31	og	og	4.0
	Leamington Spa ...	...	43	27	m	0.0	Southsea ...	...	40	30	bc	bc	3.1
	Malvern ...	...	42	26	o	0.0	Bournemouth ...	...	40	29	ob	bo	5.1
	Ross-on-Wye ...	...	...	...	...	...	...	...	...	...	...	...	...
Wales.	Rhyl ...	1	48	25	odm	0.0	Weymouth ...	...	41	29	z.c. bc	z.z	4.3
	Colwyn Bay ...	...	47	33	ef	0.0	Torquay ...	...	46	29	b	b	5.8
	Llandudno ...	...	...	...	...	...	Paignton ...	...	...	...	...	...	...
	Aberystwyth ...	...	40	27	o.c.o	0.0	Falmouth ...	...	49	35	o.c. b	b	5.2
	Tenby ...	...	47	27	bc	4.1	Penzance ...	...	50	38	bc. b	b	6.8
England, E.	Cromer ...	...	...	...	...	...	Newquay ...	...	47	31	bc	b	7.0
	Lowestoft ...	...	47	34	of.c	0.7	Ilfracombe ...	...	47	32	z.c. b	b. bc. b	5.2
	Felixstowe ...	0.2	42	32	of	0.8	Weston-super-Mare ...	...	49	31	omc	b. bc. m	1.0
	Walton-on-Naze ...	...	...	...	...	...	...	...	...	...	...	...	...
	Southend-on-Sea ...	...	41	31	o	0.0	...	...	...	...	...	...	...

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			
	7 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	
				Max.	Min.						
24 HOURS ENDED 9 A.M. TO-DAY.											
	%	%	Hr.	° F.	° F.	° F.	mm.				
Greenwich (Royal Obs.) ...	95	84	0.0	42	31	29	-	over	over	overcast	
City (Bunhill Row) ...	x	x	0.0	x	x	x	x	x	x	x	
Westminster (St. James's Pk.)	96	82	0.0	44	31	30	-	mf.	over	fair.	
Camden Sq. (Brit. Rainfall)	94	82	0.0	43	31	28	-	over	over	x	
Hampstead (Reservoir) ...	x	87	0.0	41	27	20	-	over	0	overcast	
Richmond Park ...	x	x	0.0								
Kew. (See front page.)											
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.											
				Total.		Average Rate.		Max. Rate.			
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				84 Joules.		2.8 Milliwatts.		8 Milliwatts.			
S. Kensington (Roof of M.O.)	92	79	0.0								

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

24-25 November 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	
Yarmouth ...	7.31	12.40	3.49
Greenwich ...	7.33	12.40	3.47
Wick ...	7.36	12.47	3.49
Valencia ...	8.34	12.50	3.33

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; i. light; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; s. snow; t. thunder; u. ugly, threatening sky; v. visibility; w. dew; x. hoar frost; z. dust, haze, or smoke.

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.		WEATHER.			Sun- shine for Yester- day.	
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.		After- noon.
		Max.	Min.					
	mm.	'F.	'F.	'F.				Hr.
Dublin to 4 p.m.	-	45	32	29	f. b. c.	a. b. c.	c. c.	8
Darwen to 9 p.m.								
Manchester "				1				
Birmingham "					1			
Oxford to 8 p.m.	8							8
Teignmouth to 9 "	-	44	29	28	a. b. c. f.	b. c. c.	b.	5.6
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	-	43	31	30	a. a. m.	c. m.	f. m.	9

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 45° in the eastern parts of the country, and a minimum of 20° was recorded at Nottingham. There was a good deal of sunshine in the south of the country, 7 hours at Newquay and Penzance. In other districts the weather was dull.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 329

Thursday  
25th November 1915.

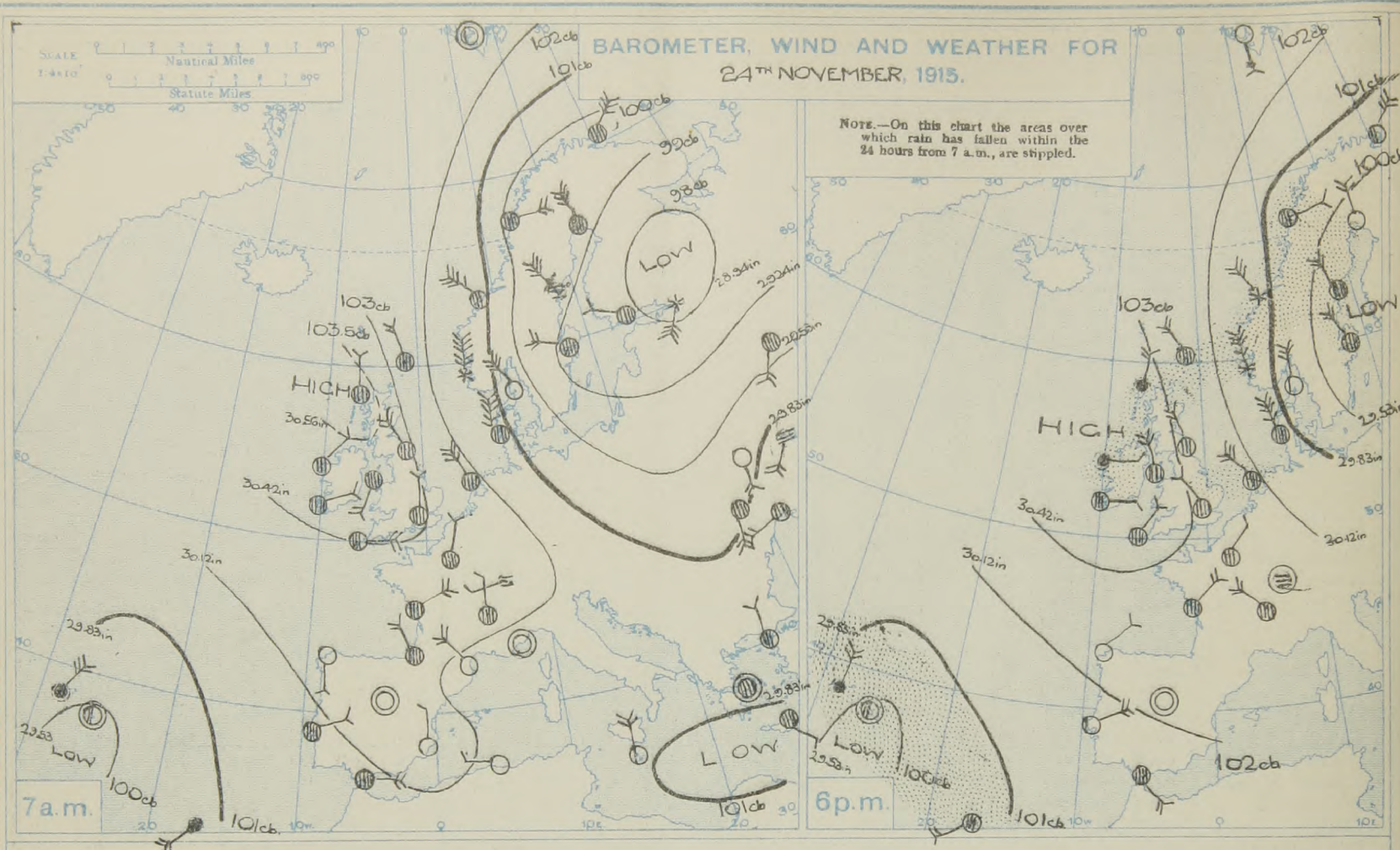
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.						Max.	Min.	Morning.	Afternoon.	Night.		
Lerwick ...	1026.0	35	NW	4	om	1023.4	0	34	-2	NNW	3	-	om	3	2	37	32	o	om	omsp	Hours.
Deerness ...	1027.4	39	NNW	4	o	1024.4	+	38	+1	NW	4	N	bc	3	3	40	36	ac	o.o	pac	0.0
Stornoway ...	1032.0	40	N	3	odp	1028.2	0	40	+4	N	3	-	o	3	2	44	36	ac	codp	codp	0.7
Castlebay (Barrisd.)	1032.6	42	NNW	3	o	1027.8	0	44	+5	N	2	N	bc	2	1	47	39	o.c.o	op	cop	0.4
Glasgow ...	1032.1	33	WSW	1	c	1025.8	-2	37	+10	NW	1	N	b	+	Trace	37	26	bc.o	o.c	cf	0.0
Eskdalemuir ...	1032.0	28	-	0	bm	1025.0	-1	36	+11	NW	4	NW	c	+	36	20	o.b.o	o.b	bc	0.2	
Malin Head ...	1033.2	42	NNE	4	bcp	1027.2	-2	43	+3	NE	5	-	omug	4	+	45	39	omip	omip	omg	0.6
Blackod Point ...	1033.9	40	E	1	om	1031.6	-2	41	+2	NE	1	-	om	2	0.3	42	37	bc	om	om	0.2
Valencia ...	1031.8	45	E	1	c	1031.3	-1	38	0	E	3	-	b	2	-	47	34	bcg	c.g	g.c.b	0.2
Roche's Point ...	1032.7	43	NE	2	o	1031.3	+	35	-8	NNW	2	-	b	2	0.1	45	33	ogm	ogm	pac	0.0
Birr Castle ...	1033.4	38	NNE	1	o	1031.5	+	32	-4	N	1	N	c	+	39	32	a.o	o	c	0.0	
Donaghadee ...	1031.8	40	NW	4	omug	1026.9	-3	40	+1	NW	4	NW	bc	3	Trace	44	38	ogm	omgip	omip	0.2
Liverpool (Bldston)	1031.7	37	N	1	o	1026.6	-5	36	+2	NNW	2	-	o	2	-	39	33	o.c	o	ox	0.2
Holyhead ...	1032.2	43	NNW	4	om	1027.7	-2	44	+6	N	3	-	o	3	-	44	37	o. om	om	obc	0.0
Pembroke (St. Ann's)	1032.4	37	ESE	2	b	1028.5	-2	38	-4	N	1	N	bu	1	-	42	37	om	bc	bc	2.9
Scilly (St. Mary's)	1030.4	45	NE	2	om	1028.6	-1	42	-7	E	3	NNW	o	3	-	50	39	om	om	om	0.0
Falmouth ...	1030.3	43	ESE	1	o	1028.7	-1	36	-9	NE	1	-	o	3	-	46	32	c.b.c	c.b	o.b	4.4
Jersey (St. Aubin)	1028.9	44	N	2	o	1026.2	+	43	-3	N	2	-	o	2	-	46	42	o	o	o	0.0
Portland Bill ...	1030.4	40	NE	2	o	1027.1	-2	36	-1	N	3	-	c	2	-	41	35	bc.o	c.o	c.o.b	0.0
Dungeness ...	1028.9	38	NNW	2	o	1025.8	-1	32	0	NW	2	NW	3gpx	2	-	43	32	b.b	bcg	obg	0.0
Dover ...	1028.4	38	NW	2	c	1024.1	-2	33	-3	NW	3	NW	b	3	-	42	33	b.b	bc	c.b	2.3
Wick ...	1028.3	36	NW	1	c	1024.4	-1	37	0	NNW	2	-	c	3	1	40	35	og	og	om	0.0
Nairn ...	1030.5	37	NNW	1	bc	1026.2	+	39	+2	NW	1	-	og	2	1	42	35	og	c.b	bc	0.0
Aberdeen ...	1029.1	38	NNW	5	o	1026.8	0	36	0	NNW	3	-	og	3	1	38	35	op	op	ob	0.0
Leith ...	1032.4	34	WSW	1	o	1026.3	-2	37	+7	NW	1	NW	c	+	-	37	29	o.c.b	c.b	om	0.0
Tynemouth ...	1029.6	35	NNW	3	om	1023.7	-4	35	-1	NNW	4	N	om	4	-	36	31	ogm	om	om	0.0
Spurn Head ...	1028.5	39	N	6	gfp	1023.6	-1	35	-3	N	6	-	bcg	7	0.4	40	32	c.g	c.g	bcg	0.0
Yarmouth ...	1026.8	39	NW	4	omid	1022.7	-3	33	-6	NW	3	NW	bc	3	4	42	33	bcg	om	op	0.1
Clacton-on-Sea ...	1028.1	39	NNW	3	o	1023.8	-2	34	-3	NNW	2	NW	c	1	-	45	33	c.o.c	c.og	og.c	0.5
Nottingham ...	1030.2	38	NNW	3	o	1025.1	+	28	-10	WSW	2	SW	bc	1	-	41	27	o.o	c.o	o.c	0.0
Bath ...	1030.8	39	NNE	2	o	1027.2	+	30	-4	N	-	-	b	+	-	40	26	c.o	og	o.b	0.0
Sth Farnborough ...	1029.7	39	NW	2	o	1026.0	-3	27	-8	N	2	N	bcg	+	-	41	27	o.b.c	c.b	o.b	1.2
London (Kew Obsy.)	1029.7	40	N	1	o	1025.7	-3	32	-5	WSW	1	N	bc	+	-	42	32	om	o	o.b	1.0
Spitsbergen ...	1029.5	22	SSE	2	b	1031.1	+1	24	-15	S	2	-	b	+	+	28	25	-	-	-	0.0
Vardö ...	1005.3	25	NE	5	bc	1011.8	+1	23	-2	ESE	1	-	o	3	+	25	23	-	-	-	0.0
Bodö ...	1004.6	25	E	2	c	1012.6	+5	25	-7	E	2	-	o	2	?	26	22	-	-	-	0.0
Christiansund ...	1013.3	30	NW	6	S	1011.5	0	34	-2	NE	4	-	S	6	7	36	28	-	-	-	0.0
Skudesnaes ...	1015.9	34	NNW	8	S	1013.0	0	30	-4	NNW	6	-	c	4	?	36	28	-	-	-	0.0
Færder (X'iania Fjord)	1007.4	34	NN	6	b	1005.6	+1	34	-3	NNW	6	-	o	2	-	37	30	-	-	-	0.0
The Scaw (Skagen)	1007.8	37	N	6	b	1008.3	+1	30	-8	N	6	-	S	6	-	37	30	-	-	-	0.0
Blaavands Huk ...	1012.7	39	NNW	8	o	1007.1	-2	39	0	NNW	6	-	o	5	-	39	37	-	-	-	0.0
Haparanda ...	998.9	14	N	4	b	1010.4	+5	9	-12	N	2	-	b	+	+	21	9	-	-	-	0.0
Hernösand ...	998.6	25	NNW	6	o	1005.9	+4	21	-7	NNE	6	-	o	+	1	28	19	-	-	-	0.0
Stockholm ...	995.7	28	NNW	4	o	997.3	+2	21	-15	N	6	-	S	+	1	36	21	-	-	-	0.0
Wisby ...	994.7	34	NNW	8	o	997.0	+2	30	-7	N	6	-	o	5	1	39	28	-	-	-	0.0
Karlstad ...	1002.6	34	NNW	6	c	1004.4	+5	25	-11	NW	4	-	o	+	-	37	21	-	-	-	0.0
Petrograd ...	1021.7	41	NW	5	o	1016.2	-3	41	0	NNW	7	-	r	6	3	43	37	-	-	-	0.0
The Helder ...	1024.0	41	NE	1	o	1025.0	+	40	-1	NNE	2	-	o	1	-	43	37	-	-	-	0.0
C. Gris Nez ...																					0.0
La Hève ...																					0.0
Ushant ...																					0.0
Brest (St. Mathieu)																					0.0
Rochefort (de d'Aix)																					0.0
Biarritz ...																					0.0
Paris ...																					0.0
Belfort ...	1026.9	20	-	0	f	1024.8	+	29	+2	SW	3	-	S	+	-	30	26	-	-	-	0.0
Lyons ...	1025.7	25	NW	4	o	1023.8	+	32	+4	N	1	-	o	+	-	33	28	-	-	-	0.0
Nice ...																					0.0
Perpignan ...																					0.0
Sanguinaire ...																					0.0
Corunna (7 a.m.)	1021.2	57	NE	2	b	1020.0	0	45	+4	S	1	SW	b	1	-	37	41	-	-	-	0.0
Madrid (8 a.m.)	1020.4	54	-	0	b	1021.6	0	39	-4	-	0	-	b	+	-	73	26	-	-	-	0.0
Lisbon (9 a.m.)	1017.1	63	E	3	bc	1015.8	0	54	-1	NNE	4	NE	c	5	-	64	64	-	-	-	0.0
Gibraltar ...	1019.3	60	SE	3	o	1017.6	+	57	+7	E	3	-	m	2	-	61	50	-	-	-	0.0
Rome ...																					0.0
Malta (8 a.m.)						1012.3	0	61	0	NNW	5	-	bc	3	-	64	59	-	-	-	0.0
Azores (Horta, 8 a.m.)	1001.0	+	N	4	h	1000.8	0	59	0	NNE	1	-	b	2	3	64	67	-	-	-	0.0
Madeira (Funchal)	1007.9	64	SW	3	c	1008.6	0	66	+3	SW	3	NW	o	3	8	68	63	-	-	-	0.0
South Farnborough:- 7 a.m.																					
Pilot Balloon Ascent.																					
2000 metres. N by E. 20 miles per hour.																					
500 metres. NW. 20 miles per hour.																					

RAINFALL.			
Equivalents of Millimetres in Inches.			
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
19	0.75	44	1.73
20	0.79	45	1.77
21	0.83	46	1.81
22	0.87	47	1.85
23	0.91	48	1.89
24	0.95	49	1.93
25	0.98	50	1.97

South Farnborough:- 7 a.m.  
Pilot Balloon Ascent.  
2000 metres. N by E. 20 miles per hour.  
500 metres. NW. 20 miles per hour.

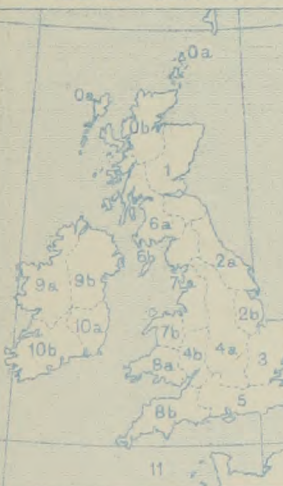
\* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.





FORECASTS FOR THE 24 HOURS NOON THURSDAY TO NOON FRIDAY.

FORECAST DISTRICTS.



**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.

South Cone.

North Cone.

Signals hoisted this morning.

South Cone.

North Cone.

No Warnings Issued.

Western Channel and Bay 1)

- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | Moderate Northerly winds; weather cloudy to dull, with some rain; rather cold.  |
|    | b |   |   |
| 1  |   | } |   |
| 2  | a |   |   |
|    | b | } | Moderate North-Westerly winds, increasing a little; weather cloudy, some rain on east coast; rather cold. Same as Nos. 7 and 8. |
| 3  |   |   |   |
| 4  | a | } | Same as Nos. 3 and 4a.  |
|    | b |   |   |
| 5  |   | } | Same as Nos. 0 to 2.  |
| 6  | a |   |   |
|    | b | } | Light Northerly winds; weather cloudy;  |
| 7  | a |   |   |
|    | b | } | cold.   |
| 8  | a |   |   |
|    | b | } | Moderate Northerly winds; cloudy, some rain; cold.  |
| 9  | a |   |   |
|    | b | } | Same as Nos. 7 and 8.   |
| 10 | a |   |   |
|    | b | } | Light North-Easterly winds; sea slight; weather cloudy.   |
| 11 |   |   |   |

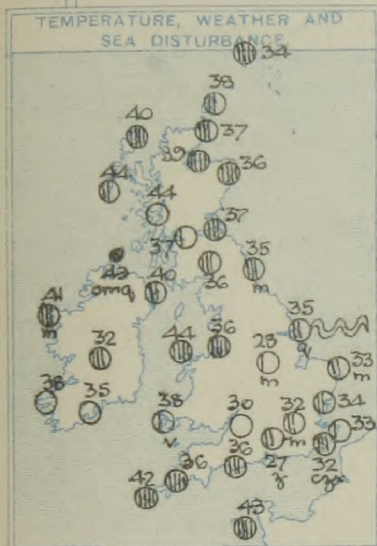
FURTHER OUTLOOK.



# SYNOPTIC CHART FOR 7 a.m., THURSDAY, 25<sup>th</sup> NOVEMBER, 1915.

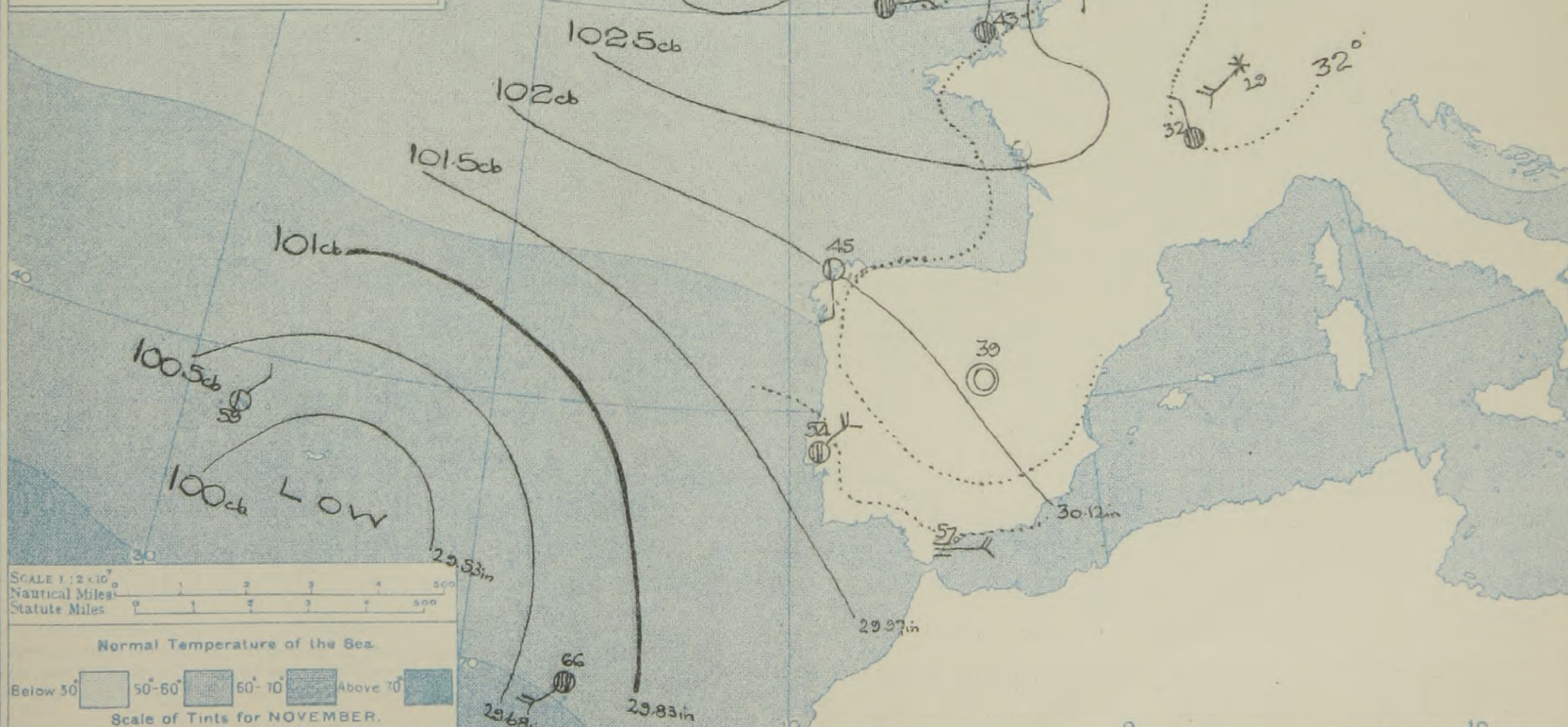
## GENERAL INFERENCE.

The anticyclone is giving way slowly.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
 Force, on the scale 0-12, is indicated by the number of feathers. Calm   
**TEMPERATURE.**—Given in degrees Fahrenheit.  
 Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 clear sky. sky 1/2 clouded. sky 3/4 clouded. overcast sky. rain falling.  
 \* snow. hail. fog. mist. thunder.  
**SEA DISTURBANCE.**—Rough High High.





## DAILY WEATHER REPORT.

Thursday, 25<sup>th</sup> November, 1915.

REPORTS  FOR  YESTERDAY.  
--

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall. mm. & .	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall. mm. & .	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
Scotland.		°F.	°F.			Hr.	Tunbridge Wells ...		°F.	°F.			Hr.
Oban ...	...	40	29	m	bc	0.0	Margate ...	...	41	35	c	c	0.3
Banff ...	0.3	41	36	o.c	b	0.0	Ramsgate ...	...	40	36	c	c	0.3
Carnoustie ...	...	38	31	c	c	0.8	Hastings ...	...	42	34	o.c.b	bc.c	3.2
St. Andrews ...	...	27	23	o	o.c	0.0	Bexhill-on-Sea ...	...	44	35	o.b.c	bc.m	2.7
England, N.E.		°F.	°F.			0.0	Eastbourne ...	...	43	34	c	c	2.8
Harrogate ...	...	39	35	o.p.c	bc.o	0.0	Seaford ...	...	42	33	c.o.c	c.o	0.4
Skegness ...	1	29	30	o	c	0.1	Brighton ...	...	42	35	c.b.c	c	1.4
England, N.W.		°F.	°F.			0.6	Worthing ...	...	43	30	o	b.b.c.o	1.6
Morecambe ...	...	38	29	c.o	o	0.6	Littlehampton ...	...	44	33	o	bc.o	1.7
Blackpool ...	...	38	30	o.c	c.o	0.4	Bognor ...	...	42	31	o	o	0.1
Southport ...	...	39	31	bc	bc	0.0	Southsea ...	...	40	30	o	o	0.0
Midlands.		°F.	°F.			0.0	Bournemouth ...	...	41	33	bc.c	c.o	0.0
Buxton ...	...	42	36	o	o.b.c.o	1.8	Weymouth ...	...	46	37	c.b.c	o.b	4.4
Leamington Spa ...	...	39	33	c	c	0.0	Torquay ...	...	46	40	o	bc.c	2.5
Malvern ...	...	41	20	o	o	0.0	Paignton ...	...	44	?	o.c.b.c	b.b.c	3.7
Ross-on-Wye ...	...	40	25	b	o.b.c	2.3	Falmouth ...	...	46	36	2.b	b.b.c	6.0
Wales.		°F.	°F.			0.0	Penzance ...	...	42	33	c.b.c	cm	0.0
Rhyl ...	...	41	30	m.c	c.b.c	4.0	Newquay ...	...	50	33	c.b.c	cm	0.0
Colwyn Bay ...	...	42	38	b	bc.o	4.9	Ilfracombe ...	...					
Llandudno ...	...						Weston-super-Mare ...	...					
Aberystwyth ...	...												
Tenby ...	...												
England, E.		°F.	°F.			0.2							
Cromer ...	...	43	37	o.p.c.o	o.c.o	0.2							
Lowestoft ...	...	41	37	cm	cm	0.2							
Felixstowe ...	0.4												
Walton-on-Naze ...	...	42	35	bc.b	b.b.c.o	2.3							
Southend-on-Sea ...	...												

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To-day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 76	% 81	Hr. 0.2	° F. 41	° F. 30	° F. 27	mm. \$ -	° 0	° C. 0.0	° F. 0.0
City (Bunhill Row) ...	% *	% *	0.5	% *	% *	% *	% *	% *	% *	% *
Westminster (St. James's Pk.)	78	81	0.1	43	31	30	-	m	bc	bc
Camden Sq. (Brit. Rainfall)	76	76	1.2	43	30	28	-	cm c	c. 0	*
Hampstead (Reservoir) ...	% *	82	2.1	41	27	17	-	cm	o.c	bc o.c
Richmond Park ...	% *	% *	2.3							
Kew. (See front page.)				VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.Q.)	74	77	0.7	292 Joules		46 Milliwatts.		23 Milli-watts.		

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

25 <sup>th</sup> 26 <sup>th</sup> November 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.33	11.40	3.47
Greenwich ...	7.36	11.47	3.58
Wick ...	8.24	11.59	3.38
Valencia ...	8.19	12.29	4.37

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
	mm. & .	° F.	° F.	° F.				Hr.
Dublin to 4 p.m.								
Darwen to 9 p.m.	-	36	20	22	o.b.c	ou	bc	0.0
Manchester "				*				
Birmingham "		39	32	24	*	o	o.c	0.0
Oxford to 8 p.m.								
Teignmouth to 9 "	-	43	36	32	om.b.c	bc	bc.b	5.2
Plymouth "								
S. Kensington (Museum Grounds to 8 p.m.)	-	42	31	28	o.m	o.c.o	ou.o	*

## NOTES ON YESTERDAY'S WEATHER.

Temperature fell to 20° at Eskdalemuir. A few other stations had minima below 30°. The day was fairly bright in parts of Wales and at some stations along the south coast; otherwise it was generally cloudy.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 330

Friday  
26th November 1915.

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.							Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change in 24 hours. °F.	WIND.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.						
			Dir.	Force 0-12.											Max.	Min.	Morning.	Afternoon.	Night.				
Lerwick ...	1022.7	34	N	4	bc	1024.5	0	35	+1	NNE	2	NE	bc	2	2	37	32	bcsp	bcspg	bc	Hours.		
Deerness ...	1023.7	34	N	6	bc	1025.4	+	35	-3	N	5	-	opth	3	5	40	35	bc.c.o	opthbc	bc.c.opth	0.0		
Stornoway ...	1026.8	38	N	4	opg	1027.6	0	37	-3	N	2	-	o	2	1	44	35	opg	opg	opg	1.6		
Castlebay (Barra Isd.)	1026.4	44	N	3	bc	1027.4	0	39	-5	NNW	3	-	o	3	1	48	36	bc	c.o.bc	bc.op.o	2.8		
Glasgow ...	1023.9	36	W	2	b	1026.5	+1	30	-7	NW	1	-	b	+	-	44	29	b.b.c.b	b	bc	4.5		
Eskdalemuir ...	1023.4	33	NW	2	b	1025.6	0	29	-7	NNE	3	-	b	+	-	40	27	c.b.c.b	b	b.b.c	4.0		
Malin Head ...	1026.1	45	NW	4	opg	1025.8	+1	40	-3	NE	4	N	opg	4	2	46	39	bc	opg	bcg	2.1		
Blackod Point ...	1028.2	44	N	3	cg	1025.7	+2	43	+2	NE	2	-	me	2	1	45	42	cg	omd	bc	+		
Valencia ...	1029.8	36	-	0	b	1026.2	-2	39	+1	-	0	-	m	3	1	44	32	cg	b	b.b.c.m	7.2		
Roche's Point ...	1028.9	42	NNW	2	b	1026.0	+	43	+8	N	1	N	c	1	0.2	44	34	b	b	bc.c	+		
Birr Castle ...	1027.8	42	NNW	1	c	1025.6	+	41	+9	-	0	-	r	+	2	43	29	bc	bc.c	f.o.d.r	2.6		
Donaghadee ...	1024.3	46	N	5	bc	1025.1	+1	39	-1	ESE	3	-	opg	3	1	47	39	bc	bc	bc.m.p.o	+		
Liverpool (Bidston) ...	1023.9	37	NNW	1	b	1024.4	0	33	-3	N	1	-	o	1	2	43	32	bc	o.c.o	bc	0.5		
Holyhead ...	1024.1	46	N	4	b	1024.2	+1	40	-4	ESE	3	-	o	2	5	47	38	op.c.p.d	op.c.op	b.b.c.op	0.2		
Fembroke (St. Ann's) ...	1025.0	46	NW	4	opg	1023.1	-1	42	+4	NNE	1	N	cp	1	4	47	36	cpd	cpd	cp	3.0		
Scilly (St. Mary's) ...	1025.5	44	N	2	bc	1022.7	-1	47	+5	N	4	N	op	4	-	48	40	o.c	op	op.c	0.0		
Falmouth ...	1025.6	38	NNW	1	bc	1023.2	-1	37	+1	NNW	1	-	bc	+	1	46	36	o.c.bc	b.b.c.b	bc.op.bc	4.0		
Jersey (St. Aubin) ...	1028.3	40	NW	2	b	1021.4	+	42	-1	NE	2	NE	b	2	1	46	38	o	o.c.b	c.op.b	0.0		
Portland Bill ...	1023.3	44	NW	3	c	1022.4	-1	37	+1	N	4	N	c	3	-	44	35	c.b.c.b	b.b.c.c	c.b.c	+		
Dungeness ...	1020.9	37	NW	2	opg	1019.0	0	31	-1	NW	2	-	bc	2	-	42	29	bc.c.opg	c.opg	o.c.b.c	+		
Dover ...	1020.7	37	NNW	4	o	1019.1	0	32	-1	NW	4	NW	bc	2	-	40	32	b	bc.c.o	c.b.c.b.c	4.2		
Wick ...	1024.2	37	NNE	3	bc	1025.4	0	37	0	NNE	2	-	bc	4	2	40	32	opg	ph.b.c.g	bcg	+		
Nairn ...	1024.7	39	N	3	bc	1026.4	+	36	-3	NNW	1	-	cg	2	1	43	35	c.b.c	opg	opg	2.2		
Aberdeen ...	1023.0	37	N	3	o	1025.2	+1	33	-3	NNW	4	-	bcsp	3	4	40	32	o.b.c.b	bc.c	c.b.csp	3.7		
Leith ...	1022.8	41	NNW	1	o	1025.7	+1	38	+1	NNW	1	-	b	1	-	42	32	c.b.c	bc.c.o	a.c.o.c	+		
Tynemouth ...	1021.0	37	NW	3	bc	1021.8	+1	35	0	NW	2	N	omps	4	4	41	32	omg	omg	ops.m	+		
Spurn Head ...	1019.3	38	N	6	r	1019.9	0	35	0	N	2	-	sb.c.g.p.h	6	4	40	34	opg	opg	opg	0.4		
Yarmouth ...	1019.1	36	NNW	3	bc	1017.5	0	36	+3	N	4	-	bc	3	7	40	33	om.b.c.p	om.b.c.p	om.b.c.p	1.1		
Clacton-on-Sea ...	1020.3	38	NNW	3	o	1019.2	0	33	-1	NNW	2	-	bc	1	-	40	31	bc.c.o	opg	opg	3.0		
Nottingham ...	1022.1	37	NW	3	b	1022.0	+	33	+5	NW	3	-	bc	+	trace	41	27	bc.c	bc.c	bc	0.0		
Bath ...	1023.0	42	N	-	b	1023.1	+	32	+2	W	-	N	o	+	44	27	m.b	m.b.c.o	a.b.c.m	5.3			
St. Farnborough ...	1021.7	39	NNW	2	o	1021.3	0	31	+4	NW	2	-	bc	+	0.3	41	27	b	c.o	r.o.b	5.3		
London (Kew Obsy.) ...	1022.1	39	NW	2	o	1021.2	0	32	0	NNW	2	-	bc	+	-	41	31	bc.c	bc.c	bc.c	2.3		
Spitsbergen ...	1030.1	38	S	2	b	1027.8	-1	24	0	-	0	-	b	+	-	-24	-35						
Vardö ...	1014.9	19	NE	3	bc	1015.5	+1	19	-4	NE	3	-	o	3	+	23	19						
Bodö ...	1016.4	28	E	4	S	1019.3	+1	18	-7	E	4	-	b	2	?	28	16						
Christiansund ...	1017.9	28	NE	4	b	1021.5	0	28	-6	NW	3	-	S	5	4	34	25						
Skudesnaes ...	1012.2	30	-	0	c	1018.9	+3	25	-5	NE	3	-	o	3	-	32	19						
Færder (X'ania Fjord) ...	1011.5	27	N	5	c	1018.3	+3	25	-9	NNE	6	-	o	2	-	34	21						
The Scaw (Skagen) ...	1008.6	28	ESE	5	bc	1018.8	+3	27	-3	NE	5	-	o	5	-	37	25						
Blaavands Huk ...	1008.3	32	NNE	3	c	1015.7	+3	21	-18	NE	2	-	bc	3	trace	39	19						
Haparanda ...																							
Hernösand ...																							
Stockholm ...																							
Wisby ...																							
Karlstad ...																							
Petrograd (5 a.m. G.M.T.)																							
The Helder ...	1014.1	37	N	5	bc	1013.6	0	34	-7	NNE	1	-	bc	3	5	43	34						
C. Gris Nez ...	1019.5	40	NNW	5	o	1018.0	0	37	-2	NNW	6	-	b	5	-	43	36						
La Hève ...	1022.9	40	NW	3	c	1019.5	+	40	0	NNE	3	-	c	2	-	41	37						
Ushant ...																							
Brest (St. Mathieu) ...	1026.0	43	NNE	1	bc	1023.0	-2	43	0	NE	2	-	c	2	-	46	41						
Rochefort (Ile d'Aix) ...	1023.4	41	NE	3	c	1021.3	-2	34	-5	ESE	1	-	bc	+	-	45	32						
Biarritz ...	1022.3	40	NE	2	b	1020.7	-1	38	-3	ESE	1	-	o	1	-	43	34						
Paris ...	1021.0	39	NW	3	o	1017.7	0	36	-1	NNW	2	-	o	+	-	43	36						
Belfort ...	1019.4	33	W	4	o	1014.9	+	31	+2	W	6	-	o	+	2	44	29						
Lyons ...	1021.2	34	NW	2	r	1019.5	+	33	+1	NW	2	-	o	+	-	40	32						
Nice ...	1007.4	47	-	0	c	1006.7	0	43	-1	E	1	-	c	2	-	52	43						
Perpignan ...	1015.1	41	NW	6	b	1016.6	+1	39	-6	N	5	NW	b	+	-	55	37						
Sanguinaire ...	+	52	ESE	2	m	+	+	?	-	E	2	-	m	5	-	57	48						
Corunna (7 a.m.) ...	1017.7	54	NE	4	o	1016.0	-1	46	+1	SW	4	SE	bc	1	-	57	43						
Madrid (8 a.m.) ...	1017.1	54	W	1	bc	1018.6	0	39	0	-	0	NW	bc	+	-	55	39						
Lisbon (9 a.m.) ...	1013.7	64	S	3	c	1013.9	0	55	+1	N	2	-	o	5	5	68	54						
Gibraltar ...	1015.6	56	W	4	b	1015.6	+	62	+5	W	3	-	bc	4	-	64	54						
Rome ...																							
Malta (8 a.m.) ...	+	+	+	+	+	1007.9	-1	61	0	WSW	4	-	b	2	Trace	64	57						
Azores (Horta, 8 a.m.) ...	1002.0	+	NE	5	r	1002.9	+1	61	+2	NNE	8	-	o	6	1	64	59						
Madeira (Funchal) ...	1009.3	68	SW	4	c	1007.5	-2	66	0	SW	4	SW	r	4	3	68	63						

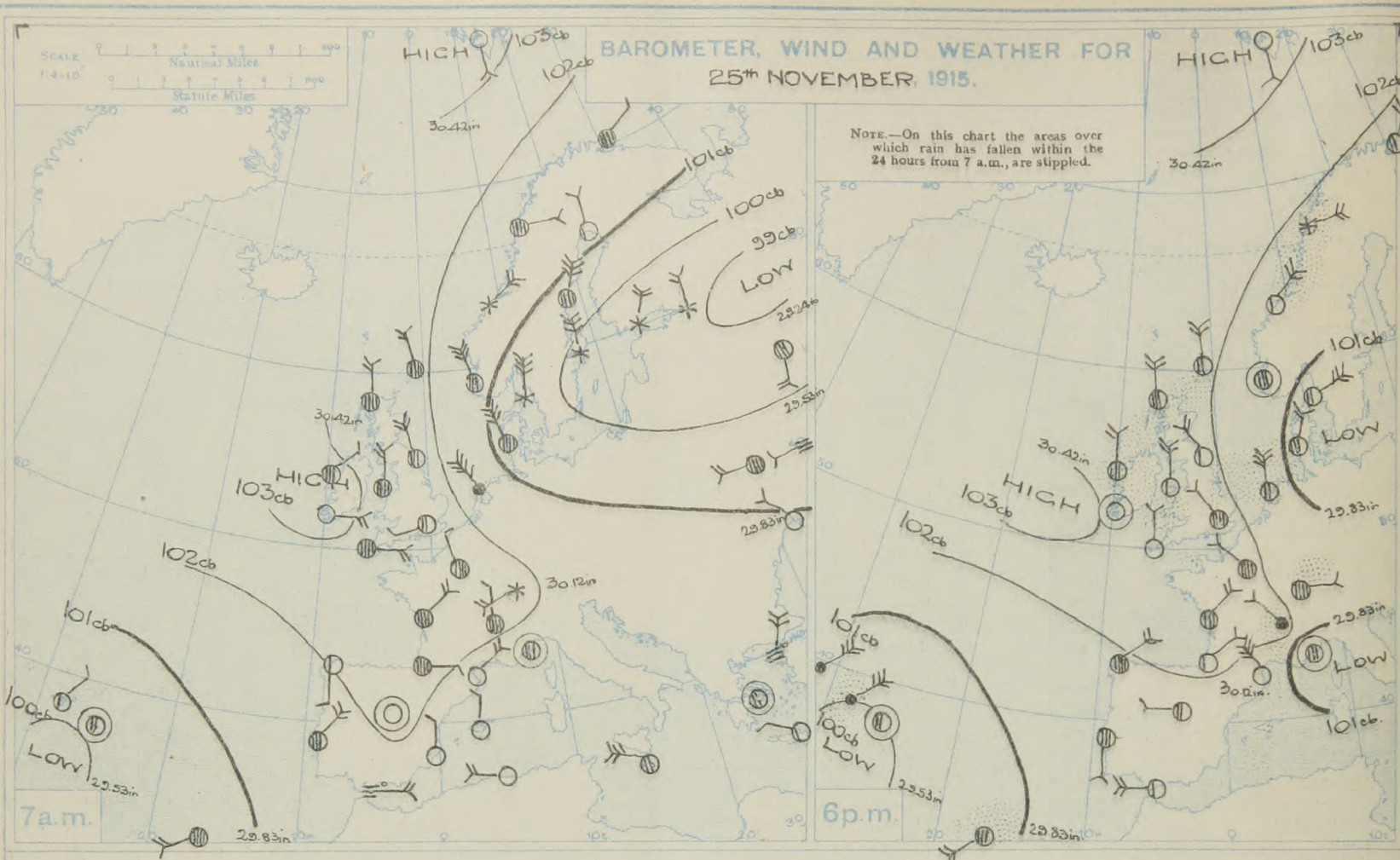
RAINFALL.  
Equivalents of Millimetres.  
in Inches.

mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43		

RAINFALL.			
Equivalents of Millimetres in Inches.			
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
19	0.75	44	1.73
20	0.79	45	1.77
21	0.83	46	1.81
22	0.87	47	1.85
23	0.91	48	1.89
24	0.95	49	1.93
25	0.98	50	1.97

South Farnborough  
Pilot Balloon Ascent at 7.30 a.m.  
2000 metres. N 35 miles per hour.  
300 metres. N by E 27 "





#### FORECASTS FOR THE 24 HOURS NOON FRIDAY TO NOON SATURDAY.

FORECAST DISTRICTS.	
STORM WARNINGS.	
The Coasts upon which the Warning Signals are at present displayed are indicated thus:—	
Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.
No Warnings Issued.	

Western Channel and Bay 1)

#### FURTHER OUTLOOK.

R. G. K. LEMPFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director

Light or moderate Northerly winds; snow showers, with fair intervals; cold.

Fresh or moderate Northerly winds, decreasing somewhat; weather fair, some showers on coast; cold.

Light Northerly or North-Easterly winds; fair weather, with slight showers; cold.

Light North-Easterly winds or calms; fair intervals; some showers, misty; rather cold.

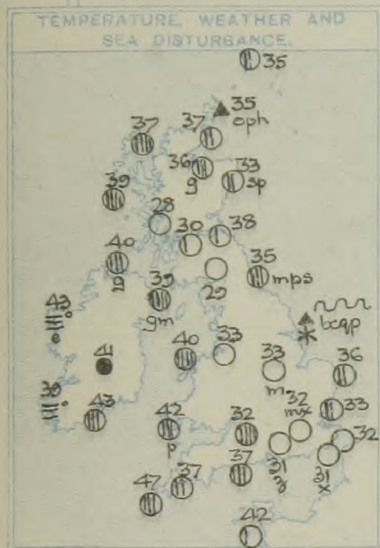
Light North-Easterly winds; fair weather; sea slight.



# SYNOPTIC CHART FOR 7 a.m., FRIDAY, 26<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

Pressure is becoming very uniform over the greater part of the British Isles.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**WIND.**—Direction is shown by arrows flying with the wind.  
Force, on the scale 0-12, is indicated by the number of feathers. Calm

**TEMPERATURE.**—Given in degrees Fahrenheit.  
Isotherms shown by dotted lines.

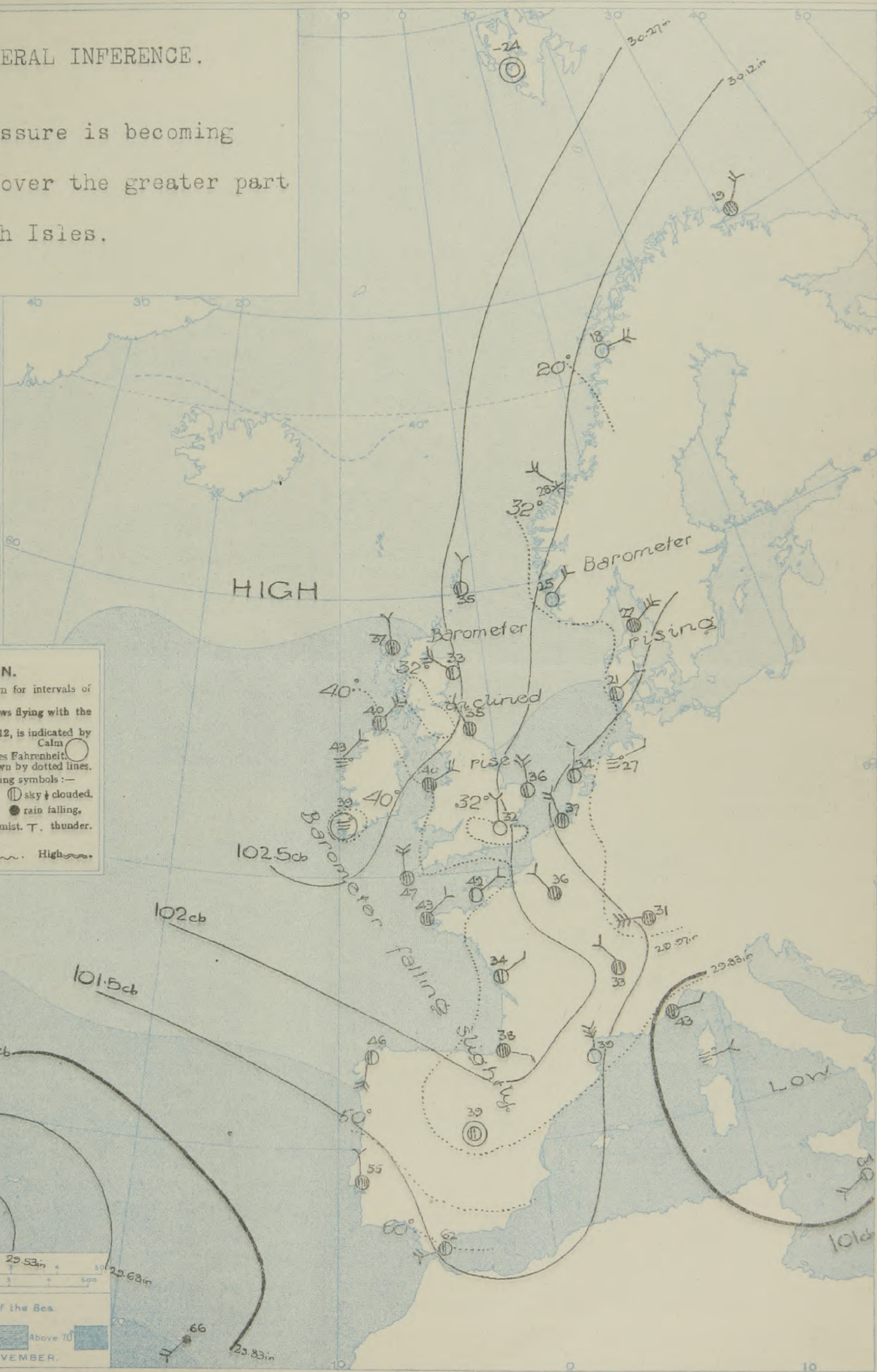
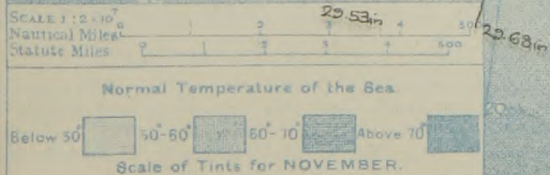
**WEATHER.**—Shown by the following symbols:—  
○ clear sky. ○ sky & clouded. ○ sky & clouded.  
○ sky & clouded. ○ overcast sky. ● rain falling.  
✱ snow. ▲ hail. ≡ fog. ≡ mist. T. thunder.  
K. thunderstorm.

**SEA DISTURBANCE.**—Rough ~~~~~ High ~~~~~.

Inches.  
31

30

29





# DAILY WEATHER REPORT.

Friday, 26<sup>th</sup> November, 1915.

REPORT'S  FOR  YESTERDAY   25 <sup>th</sup> November	STATIONS.	EVENING OBSERVATIONS.						OBSERVATIONS AT 7 A.M., G.M.T.										
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Dir. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.	
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours. ° F.	Direc.	Force 0-12.					Max.	Min.
	Petrograd	985.0	32	WSW	2	r	990.4	+1	27	-3	N	3	-	S	4	93	32	23
	C. Gris Nez	1002.3	40	N	6	o	1023.1	-2	39	7	WSW	5	+	o	5	-	43	37
	Brest	1036.0	43	ENE	2	o	1027.8	0	43	0	NE	3	+	o	2	-	48	41
	Rochefort	1025.9	40	NE	4	o	1024.3	0	39	+8	NE	3	+	o	4	-	43	34
	Biarritz	1022.4	46	NE	1	o	1021.5	0	41	-5	E	1	+	o	1	-	80	36
	Paris	1027.3	39	NNE	1	o	1024.4	0	37	0	NNW	1	-	o	1	-	43	36
	Nice	1016.7	49	-	0	b	1011.3	0	44	0	-	0	-	o	1	-	55	43
	Perpignan	1017.2	50	NW	3	b	1016.2	+2	45	-9	NNW	3	-	o	1	-	63	45

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall mm.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		°F.	°F.						°F.	°F.			
Scotland.							Tunbridge Wells ...						
Oban ...	1	47	36	b	bc	4.2	Margate ...		41	35			2.1
Banff ...	4	42	37	om	rpo	2.6	Ramsgate ...		40	33	bc	o	3.5
Carnoustie ...							Hastings ...		42	33	bc	bc	4.2
St. Andrews ...							Bexhill-on-Sea ...				mb	bm	4.8
England.							Eastbourne ...		46	33	mb	bm	4.8
Harrogate ...		42	30	acbc	bc	2.7	Seaford ...						
Skegness ...	1	40	30	bc	po	1.8	Brighton ...		42	33	bc	bc	5.6
Wales.							Worthing ...		42	31	b	bc	5.8
Morecambe ...		40	25	c	bc	2.5	Littlehampton ...		42	32	bc	bc	5.5
Blackpool ...		39	28	om	o	2.2	Bognor ...		44	30	b	bc	5.9
Southport ...	0.3	47	28	acbc	bc	3.5	Southsea ...		41	30	b	b	6.6
Midlands.							Bournemouth ...		42	27	b	bc	7.3
Buxton ...													
Leamington Spa ...	0.2	40	25	bc	cop	0.5	Weymouth ...		42	29	g	bc	6.5
Malvern ...		42	33	bc	c	3.6	Torquay ...		44	30	b	bc	5.8
Ross-on-Wye ...		42	28	bc	bc	5.2	Paignton ...		46	33	bc	bc	5.9
Wales.							Falmouth ...		46	32	acbc	bc	4.0
Rhydyfod ...	4	44	26	ac	ac	1.0	Penzance ...		47	34	o	bc	3.3
Colwyn Bay ...	3	45	35	bc	bc	0.9	Newquay ...		47	?	bc	bc	3.0
Llandudno ...				ac	ac	0.2	Ilfracombe ...		46	35	bc	bc	3.6
Aberystwyth ...	3	44	29	ac	ac	0.2	Weston-super-Mare ...		46	32	c	bc	6.2
Tenby ...	0.2	46	29	b	bc	3.3							
England.													
Cromer ...													
Lowestoft ...	4	39	37	cop	op	1.1							
Felixstowe ...		41	32	bc	om	3.0							
Walton-on-Naze ...	Trace	40	31	bc	om	3.4							
Southend-on-Sea ...		41	31	bc	bc	3.0							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To-day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
	%	%	Hr.	° F.	° F.	° F.	mm. g.			
Greenwich (Royal Obsy.) ...	76	82	0.0	40	31	27	-	03.03	03.0	02.2
City (Bunhill Row) ...	*	*	0.1	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	79	82	0.1	41	32	27	-	m	m	m.6
Camden Sq. (Brit. Rainfall)	80	82	1.8	41	32	28	-	bc	bc	*
Hampstead (Reservoir) ...	*	81	2.8	39	29	16	-	o	o.6	bc
Richmond Park ...	*	*	3.1							
Kew. (See front page.)										
VERTICAL COMPONENT OF SOLAR RADIATION: PER SQUARE CENTIMETRE DURING YESTERDAY.										
				Total.		Average Rate.		Max. Rate		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				231 Joules		7.7 Milliwatts		22 Milliwatts		
S. Kensington (Roof of M.O.)	67	84	0.8							

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
	mm.8	° P.	° F.	° F.				Hr.
Dublin to 4 p.m.	-	43	34	29	c. 6	bc. 0	ac	*
Darwen to 9 p.m.								
Manchester "				*				
Birmingham "					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 "	-	45	33	28	c. 3c	bc 8	8 bc	5.8
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	-	41	32	24	0	bc. 0	0	*

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

26 <sup>th</sup> & 27 <sup>th</sup> Nov. 1915.	Sunrise.		Noon.		Sunset.	
	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.34	11.40	8.46	3.45	7.36	11.41
Greenwich ...	7.37	11.47	8.57	3.57	7.39	11.48
Wick ...	8.27	11.59	9.31	4.31	8.29	12.0
Valencia ...	8.20	12.28	4.36	4.36	8.22	12.29

## NOTES ON YESTERDAY'S WEATHER.

No very low temperatures were experienced in the night, though many stations reported minima of, or rather below, 32°. Some sunshine was recorded in most districts, along the south coast the day was bright, snow and hail showers fell in the north and north-east.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 331

Saturday  
27 November 1915.

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sea- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Dir.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
Lerwick	1025.2	34	NNW	1	bc	1021.1	-2	38	+3	S	3	-	c	2	-	38	33	c	bc	bc	Hours.
Deerness	1026.1	35	-	0	op	1022.0	-	34	-1	SW	3	5	bc	2	1	38	34	op h. bc	bc p	o. c. bc	00
Stornoway	1026.4	37	NNW	1	oz	1019.6	-5	41	-4	S	4	-	o	4	-	41	36	oz	oz	o	00
Castlebay (Barraisd.)	1026.1	41	E	3	o	1019.8	-2	45	+6	S	4	-	o	4	-	45	37	o	o	o	00
Glasgow	1027.5	32	-	0	f	1025.1	-3	29	-1	ENE	2	-	og	+	trace	39	22	o	bf	f. bas p	49
Eskdalemuir	1028.3	25	NNW	1	b	1027.5	0	21	-8	-	0	-	o	-	-	37	16	b. dx	b	x bc	63
Malin Head	1026.4	38	SSE	2	om	1020.8	-3	37	-3	SW	4	SW	bcg	3	-	43	34	ov	ov	bcg	10
Blackod Point	1024.2	41	SE	2	bc	1020.1	-5	44	+1	S	5	S	cg	3	0.2	45	39	cg	bcg	om	-
Valencia	1024.8	44	-	0	o	1021.7	-2	39	0	-	0	S	bc	2	0.1	47	37	bf	c	o. c. bc	15
Roche's Point	1026.5	42	NNE	1	c	1024.0	-	45	+2	SE	4	-	o	4	1	46	41	c. o	bc	op op	-
Birr Castle	1025.6	37	E	1	c	1023.6	-	39	-2	SE	2	-	o	1	-	42	36	f. bc	bc	f. c. o	22
Donaghadee	1026.4	37	SW	3	bc m	1023.9	-2	36	-3	SW	3	SW	bc m	2	-	45	35	bc	bc m	bc m om	-
Liverpool (Bidston)	1026.9	34	N	1	b	1027.3	0	25	-8	ESE	2	-	m	1	-	38	25	b	bm	bm x	65
Holyhead	1026.5	38	SE	3	b	1026.3	0	37	-3	WNW	3	-	bc m	2	-	43	31	o. c. bc. c	c. bc. b	bc	44
Pembroke (St. Ann's)	1025.6	39	E	3	b	1026.2	0	40	-2	SE	4	SE	bcg	4	0.2	43	35	c	bc	bcg	20
Scilly (St. Mary's)	1022.8	45	E	2	ovg	1024.1	0	44	-3	SE	4	E	c	4	1	49	42	ovp	ovp	c. bc	12
Falmouth	1024.9	42	ENE	3	cg	1025.8	0	41	+4	E	2	-	c	2	-	46	36	bc. c	c. o. c	c. bc. c	07
Jersey (St. Aubin)	1023.0	41	NE	2	b	1025.9	-	38	-4	E	2	-	o	2	-	46	35	bc. o	o. b	bc. o	51
Portland Bill	1023.4	38	NNE	3	b	1026.5	0	35	-2	NE	3	-	bc	3	-	42	34	bc. b	bc. b	bc. bc	-
Dungeness	1022.8	35	NNE	3	bcg	1025.5	0	26	-5	NNE	2	NE	bc	2	1	41	25	b. bc	bcsg	bc. bc. o	-
Dover	1023.5	33	N	2	b	1027.0	+3	30	-2	WNW	4	WNW	c	2	1	39	29	b	b. o. s. b	bc. cs	43
Wick	1026.0	35	WNW	1	o	1021.9	-2	30	-7	SSW	1	-	b	2	-	38	-	bc. c	c. om	b	-
Nairn	1026.9	30	-	0	om	1022.7	-	30	-6	-	0	-	cg	1	-	37	23	cg m	om	c. bc	00
Aberdeen	1026.8	34	WNW	3	o	1024.6	-1	28	-5	WSW	1	-	o	2	1	36	27	bc. p. b	b. bc. o	ac. bc. b	25
Leith	1027.8	33	-	1	bc	1026.2	-1	29	-9	WNW	1	-	o	-	-	39	25	b. bc	c. bc.	bc. bc	-
Tynemouth	1025.7	36	NNW	2	bm	1025.8	0	29	-6	WNW	2	-	bc m	4	-	42	37	bc. c. ops	bc m p	bc m	-
Spurn Head	1024.0	40	NE	5	bcg	1027.8	+1	35	0	N	3	-	cg p m	4	1	41	34	bcg p	bcg	bcg p m	45
Yarmouth	1023.2	35	NE	5	m x	1026.9	+3	37	+1	NE	4	-	bc	4	2	42	30	bcg p h	bcg p h	bcg p h	44
Clacton-on-Sea	1023.6	33	NNW	3	bc	1026.7	0	28	-5	NW	2	N	bc	1	1	39	27	bcg s	bcg s	bcg s x	45
Nottingham	1025.6	35	N	3	b	1027.8	-	23	-10	WSW	1	-	bm x	-	-	40	21	bm	b	bm	41
Bath	1025.4	30	N	-	b	1028.1	-	22	-10	N	-	-	m	-	-	42	20	m. o. bc. b	b	bm	60
St. Farnborough	1024.1	31	NNW	1	b	1027.9	+1	22	-9	WNW	1	-	bcg	-	-	40	21	b	bc	bc	57
London (Kew Obsy.)	1024.8	35	NNE	1	bm	1028.0	0	25	-7	WSW	1	-	bm x	-	-	40	25	bm x. b	bm	bm x m x	53
Spitsbergen	1027.7	-27	SSE	1	b	1028.2	+1	20	+4	-	0	-	b	-	-	-20	-35	-	-	-	-
Vardö	1016.4	21	NNE	3	o	1017.2	0	21	+2	NE	2	-	s	3	-	21	16	-	-	-	-
Bodö	1020.7	18	E	2	b	1014.0	-4	23	+5	E	2	-	b	2	-	23	16	-	-	-	-
Christiansund	1022.9	30	S	2	b	1018.4	-3	34	+6	NW	2	-	b	5	1	34	27	-	-	-	-
Skudesnaes	1024.4	25	-	0	b	1023.7	-2	32	+7	ESE	3	-	s	2	-	32	19	-	-	-	-
Færder (X'iania Fjord)	1024.0	25	NNE	5	b	1025.5	0	21	-4	-	0	-	b	0	-	25	16	-	-	-	-
The Scaw (Skagen)	1022.1	27	NE	4	b	1025.6	0	25	-2	NNE	2	N	bc	2	-	30	23	-	-	-	-
Blaavands Huk	1021.7	25	NE	2	c	1027.1	+2	21	0	ENE	1	-	b	1	-	28	18	-	-	-	-
Haparanda	1019.0	5	N	2	o	1020.3	0	0	-7	NNW	2	-	b	-	-	9	-2	-	-	-	-
Hernösand	1022.1	12	N	2	b	1022.9	0	3	-11	N	2	-	b	-	-	19	1	-	-	-	-
Stockholm	1018.1	19	N	2	o	1022.1	+2	12	-9	W	2	-	o	-	trace	23	12	-	-	-	-
Wisby	1015.1	25	NNE	6	o	1021.0	+5	25	0	ENE	4	-	c	-	-	28	21	-	-	-	-
Karlstad	1022.7	16	N	2	bc	1025.6	+3	9	-12	NW	2	-	b	-	-	21	7	-	-	-	-
Petrograd (5 a.m. G.M.T.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
The Helder	1021.9	28	S	1	b	1026.9	+3	27	-7	SSE	1	-	o	1	6	36	23	-	-	-	-
C. Gris Nez	1021.7	33	ESE	3	bc	1025.2	+1	30	-7	ESE	2	-	s	2	2	39	30	-	-	-	-
La Hève	1021.2	37	NNE	2	c	1026.1	-	32	-8	ESE	3	-	c	0	-	43	30	-	-	-	-
Ushant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brest (St. Mathieu)	1024.2	47	ENE	2	o	1024.6	0	37	-4	ESE	4	-	c	3	-	50	36	-	-	-	-
Roche fort (Ned d'Aix)	1024.0	40	N	3	c	1024.0	+2	30	-4	ENE	4	-	b	-	-	46	30	-	-	-	-
Biarritz	1018.1	40	E	2	o	1020.2	-	32	-6	E	2	-	b	1	-	45	32	-	-	-	-
Paris	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Belfort	1016.3	30	W	4	o	1025.2	-	16	-15	-	0	-	m	-	1	36	15	-	-	-	-
Lyons	1018.6	31	NNW	2	b	1022.4	-	28	-5	NNW	3	-	c	-	1	37	28	-	-	-	-
Nice	1005.9	41	E	2	bc	1013.2	+3	35	-8	-	0	-	b	2	-	48	30	-	-	-	-
Perpignan	1017.0	41	N	1	b	1019.5	+3	36	-3	N	2	-	m	-	-	46	34	-	-	-	-
Sanguinaire	-	53	N	4	o	-	-	45	-	N	4	-	o	5	-	55	39	-	-	-	-
Corunna (7 a.m.)	1014.4	54	NE	5	b	1013.9	0	43	-3	S	3	W	b	1	-	57	39	-	-	-	-
Madrid (8 a.m.) †	1013.9	52	-	0	c	1017.5	+3	39	0	-	0	-	o	-	-	55	37	-	-	-	-
Lisbon (9 a.m.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gibraltar	1013.5	61	W	4	b	1010.8	-	63	+1	W	4	-	bc	3	-	72	57	-	-	-	-
Rome	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malta (8 a.m.)	-	-	-	-	-	1007.8	+3	37	-4	NW	5	-	o	4	-	64	57	-	-	-	-
Azores (Horta, 8 a.m.)	1006.9	-	NE	7	Y	1013.3	+1	59	-2	NNE	6	-	c	5	2	64	57	-	-	-	-
Madeira (Funchal)	1001.9	64	SW	5	o	1008.3	0	64	-2	SW	4	-	r	4	3	66	63	-	-	-	-

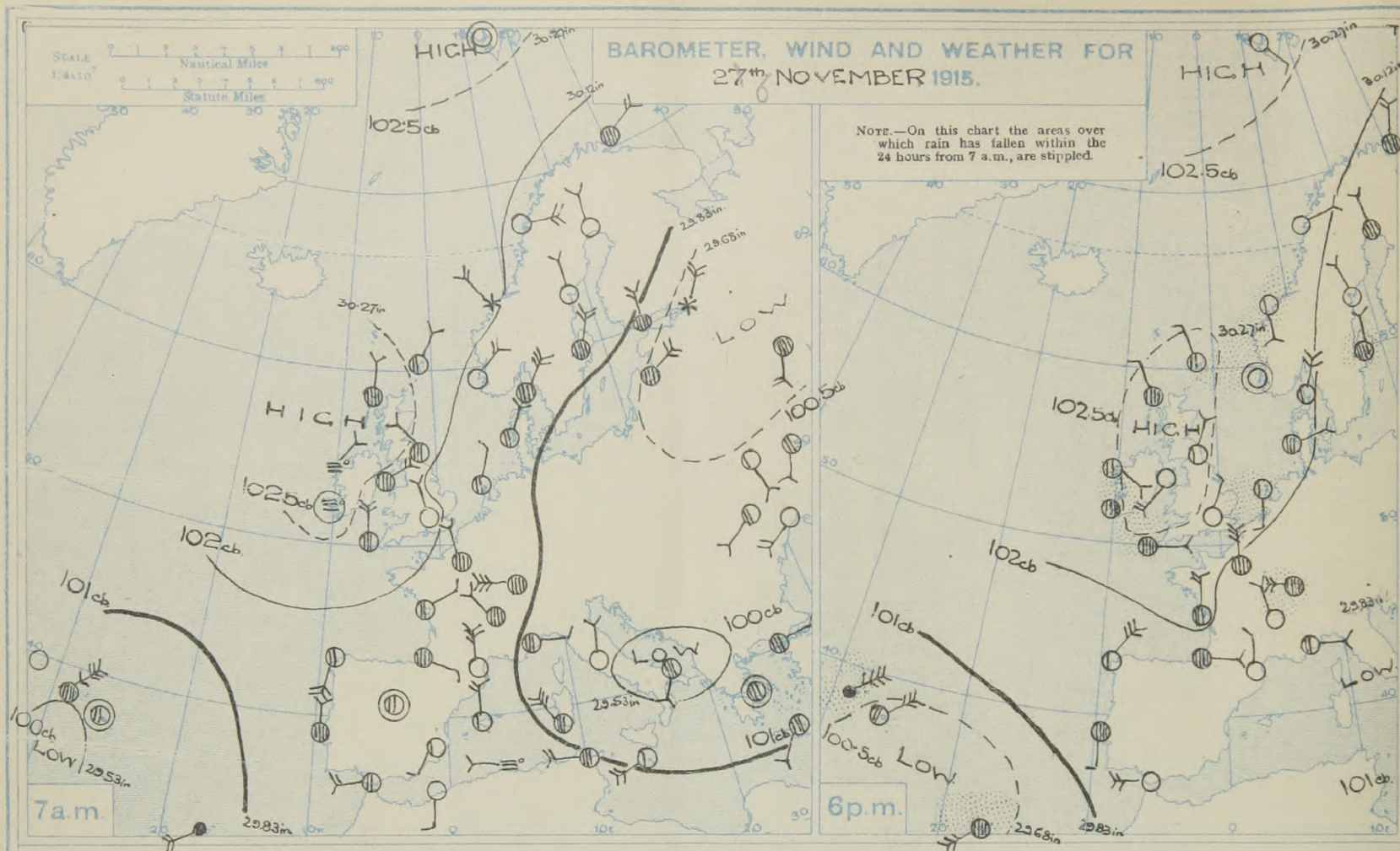
South Farnborough.

Plot Balloon Ascent:- 7 a.m.

<

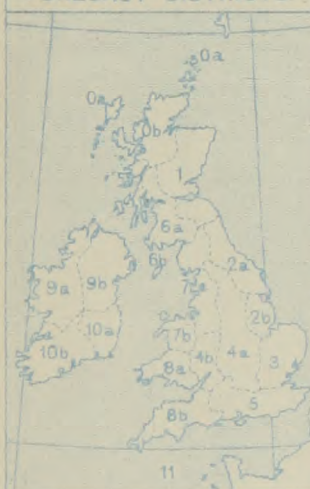
RAINFALL.			
Equivalents of Millimetres. in Inches.			
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58





### FORECASTS FOR THE 24 HOURS NOON SATURDAY TO NOON SUNDAY.

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.

South Cone.

North Cone.

Signals hoisted this morning.

South Cone.

North Cone.

No Warnings Issued.

Western Channel and Bay 11

- |    |        |   |  |
|----|--------|---|--|
| 0  | a<br>b | } | Southerly winds, increasing to fresh or strong; weather dull, some rain; becoming warmer.                            |
| 1  |        |   |  |
| 2  | a<br>b | } | Light variable winds, becoming moderate Southerly; fair weather, less settled later; cold at first, becoming warmer. |
| 3  |        |   |  |
| 4  | a<br>b | } | Light variable winds, becoming South-Easterly; fair with some snow showers; cold.                                    |
| 5  |        |   |  |
| 6  | a<br>b | } | Same as No. 2.   |
| 7  |        |   |  |
| 8  | a<br>b | } | Same as No. 3.   |
| 9  |        |   |  |
| 10 | a<br>b | } | Same as Nos. 0 and 1.  |
| 11 |        |   |  |
|    | a<br>b | } | Same as No. 2.   |
|    |        |   |  |
|    | a<br>b | } | Moderate South-Easterly winds, veering later; weather fair; milder.  |
|    |        |   |  |
|    | a<br>b | } | Same as Nos. 0 and 1.  |
|    |        |   |  |
|    | a<br>b | } | Same as No. 8.   |
|    |        |   |  |
|    | a<br>b | } | Moderate South-Easterly winds, veering later; weather fair; sea moderate or rather rough.                            |
|    |        |   |  |

#### FURTHER OUTLOOK.

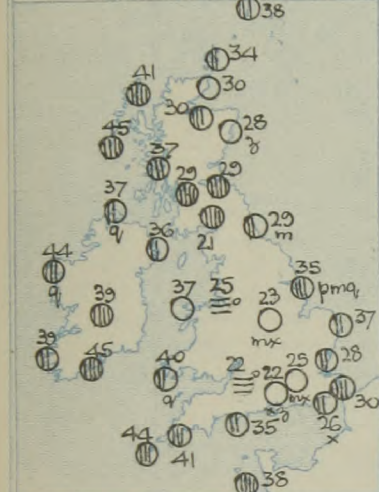


# SYNOPTIC CHART FOR 7 a.m., SATURDAY, 27<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

The anticyclone will move slowly eastward while a depression approaches our north-west coasts.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**WIND.**—Direction is shown by arrows flying with the wind.

Force, on the scale 0-12, is indicated by the number of feathers.

**TEMPERATURE.**—Given in degrees Fahrenheit.

Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.

○ sky 1/2 clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough. High.

Inches.  
— 31

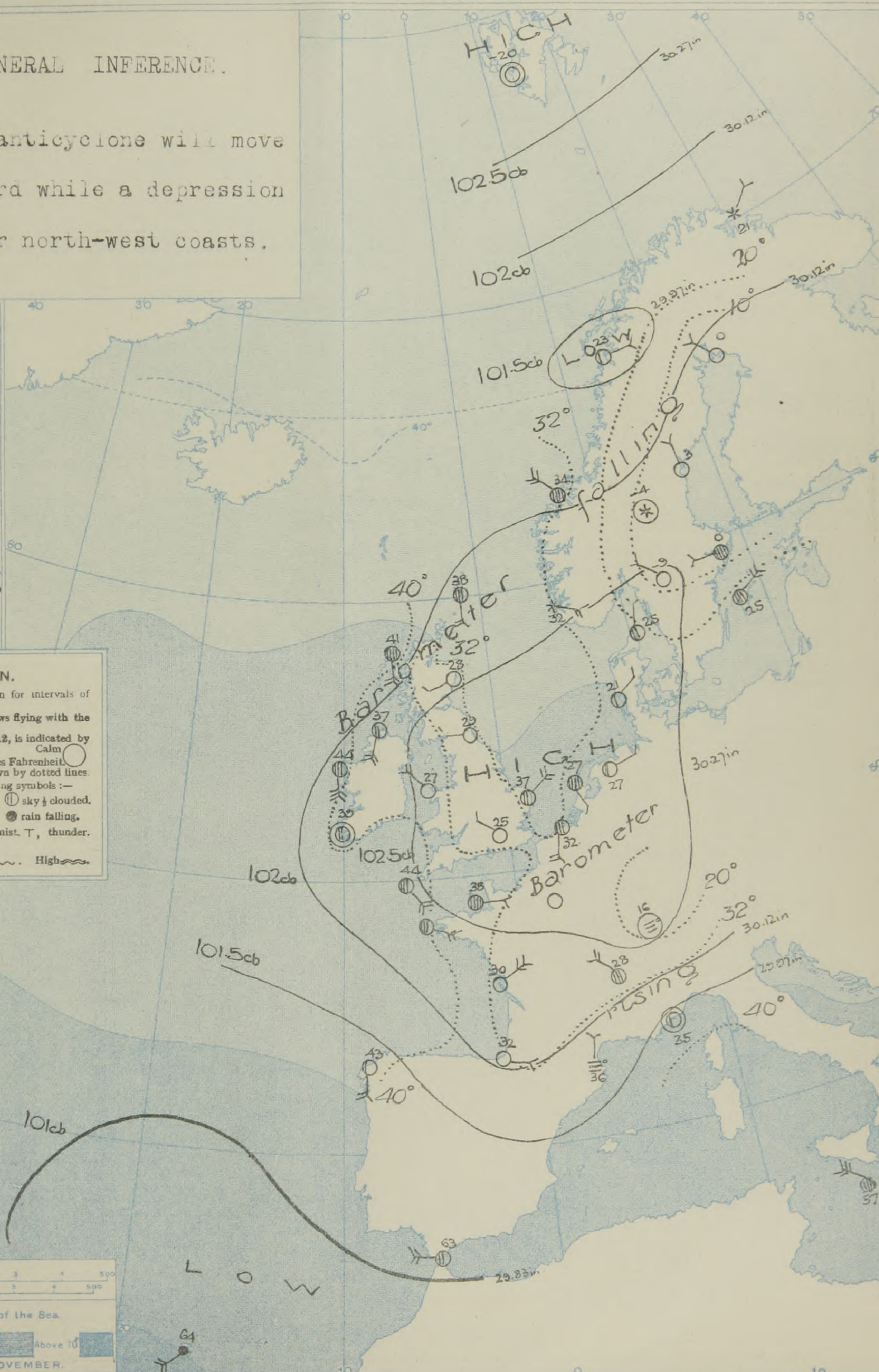
30

29

SCALE 1:2.10<sup>5</sup>  
Nautical Miles  
Statute Miles

Normal Temperature of the Sea.

Below 50° 50°-60° 60°-70° Above 70°  
Scale of Tints for NOVEMBER.





## DAILY WEATHER REPORT.

Saturday, 27<sup>th</sup> November, 1915.

REPORTS  FOR  YESTERDAY.   26 <sup>th</sup> November	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain- fall. Milli- metres.	TEMP.	
		BAROM. Milli- bars at M.S.L.	TEMP.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours. ° F.	Direc.	Force 0-12.							
Haparanda ...	1014.9	9	N	2	bc	1018.4	+	7	-2	N	2	-	bc	+	-	10	7		
Hernösand ...	1012.6	21	N	6	c	1019.4	+3	14	-7	N	2	-	bc	+	-	21	12		
Stockholm ...	1005.0	23	N	4	0	1012.0	+3	21	0	NNE	4	-	0	+	1	25	19		
Visby ...	999.9	30	NNW	6	0	1009.0	+4	25	-5	NE	2	-	c	+	2	32	23		
Karlstad ...	1010.1	21	N	4	c	1017.7	+5	21	-4	NNE	4	-	0	+	-	25	16		
Petrograd ...	997.9	23	NNE	4	s	1003.9	+3	19	-8	NE	4	-	s	+	-	25	19		
Rome ...	1006.4	50	W	1	bc	1002.6	0	43	-	N	2	-	bc	+	6	55	43		

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.				
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.					
	mm. & .	° F.	° F.			Hr.		mm. & .	° F.	° F.			Hr.				
Scotland.	Oban ... ..	-	43	26	b	b	5.6	England, S.E.	Tunbridge Wells ... ..	-	-	-	-	-			
	Banff ... ..	1	40	34	bc.c	rsp	0.6		Margate ... ..	1	41	30	bc	bsh	0.8		
	Carnoustie ... ..	-	-	-	-	-	-		Ramsgate ... ..	1	39	33	o.c	ch.c	1.3		
	St. Andrews ... ..	-	41	27	*	*	5.9		Hastings ... ..	-	40	32	b	b	6.2		
Eng. N.E.	Harrogate ... ..	-	37	32	b	bc.b	4.4	England, S.E.	Bexhill-on-Sea ... ..	-	-	-	-	-			
	Skegness ... ..	2	42	32	sh.o.bc	bc.b	4.9		Eastbourne ... ..	-	40	32	b	bm	4.5		
Eng. N.W.	Morecambe ... ..	-	36	25	b	b	6.4		Seaford ... ..	-	-	-	-	-			
	Blackpool ... ..	-	39	28	b	b	6.6		Brighton ... ..	-	41	31	bc.b	b.b.c	5.3		
	Southport ... ..	-	37	28	b	b	6.7		Worthing ... ..	-	42	31	b	b.b.c	6.3		
Midlands.	Buxton ... ..	-	-	-	-	-	6.4		England, S.W.	Littlehampton ... ..	-	42	32	b	b	6.7	
	Leamington Spa ... ..	-	40	27	bc	bc	4.8			Bognor ... ..	0.3	42	32	b	b	6.7	
	Malvern ... ..	-	40	34	b	b	6.6			Southsea ... ..	-	42	31	b	b	6.0	
	Ross-on-Wye ... ..	-	42	27	b	b	6.2			Bournemouth ... ..	-	42	30	b	b	6.7	
Wales.	Rhyl ... ..	-	40	29	b	bc	6.8			England, S.W.	Weymouth ... ..	-	42	33	x.bc.b	b.bc.z	6.3
	Colwyn Bay ... ..	-	39	32	bc	bc	7.0	Torquay ... ..			-	46	39	bc.c	bc	5.0	
	Llandudno ... ..	-	42	29	bc	bc	6.5	Paignton ... ..			1	46	37	bc.c	co.c	0.7	
	Aberystwyth ... ..	1	46	36	bc	bc	5.1	Falmouth ... ..			3	48	40	bc.c	co	0.8	
England, E.	Cromer ... ..	-	-	-	-	-	-	England, S.W.			Penzance ... ..	2	47	?	bc.c	b.b.c	0.5
	Lowestoft ... ..	7	41	32	c.psh	c.psh	4.2				Newquay ... ..	-	45	35	c.bc.b	b	5.3
	Felixstowe ... ..	2	40	31	bcps	bcps	4.1		Ilfracombe ... ..		-	51	30	b	b	6.5	
	Walton-on-Naze ... ..	3	39	31	bc.c.os	bc.c.os	4.0		Weston-super-Mare ... ..		-	-	-	-	-	-	
Southend-on-Sea ... ..	-	41	32	b	bc.b	5.8											

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
Greenwich (Royal Obs.) ...	70	91	5.4	84	23	19	mm.‡	8.3m	8.3c	bc. f.
City (Bunhill Row) ...	*	*	2.1	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	74	100	3.0	41	25	22	-	7	7	bc. f.
Camden Sq. (Brit. Rainfall)	74	92	5.5	40	26	23	-	7	8.3c	*
Hampstead (Reservoir) ...	*	81	5.6	38	26	14	-	7	8.3c	bc. bc. f.
Richmond Park ...	*	*	5.2	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETER DURING YESTERDAY.						
Kew. (See front page.)				Total.		Average Rate.		Max. Rate		
(Greenwich and Camden Square air temperatures are in Glash & screens.)				32.1 Joules		10.7 Milliwatts.		20 Milliwatts.		
S. Kensington (Roof of M.O.)	74	82	5.7							

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

27 <sup>th</sup> & 28 <sup>th</sup> November 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	
Yarmouth ...	7.36	11.41	3.45
Greenwich ...	7.39	11.41	3.44
Wick ...	7.41	11.48	3.56
Valencia ...	8.20	12.0	3.29
	8.33	12.0	3.27
	8.22	12.29	4.35
	8.34	12.29	4.34

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. fog; v. threatening sky; w. visibility, unusual transparency; x. dew; y. hoar frost; z. dust-haze, or smoke.

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day.
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
	mm. &	° F.	° F.	° F.				Hr.
Dublin to 4 p.m.								*
Darwen to 9 p.m.								*
Manchester "								*
Birmingham "	37	30	24		bc	bc	33	
Oxford to 8 p.m.								*
Teignmouth to 9 "	45	35	30	bc	bc	b	5.5	
Plymouth "								*
S. Kensington (Museum Grounds to 6 p.m.)	41	32	21	0. bc	b. bc	bc. bc		*

## NOTES ON YESTERDAY'S WEATHER.

The night was cold at inland stations. A minimum of 16° occurred at Eskdalemuir, and 20° at other stations; 14° was reached on the grass at Hampstead. The day was bright in all districts, except in the extreme north. Some snow and hail showers fell along the east coasts.

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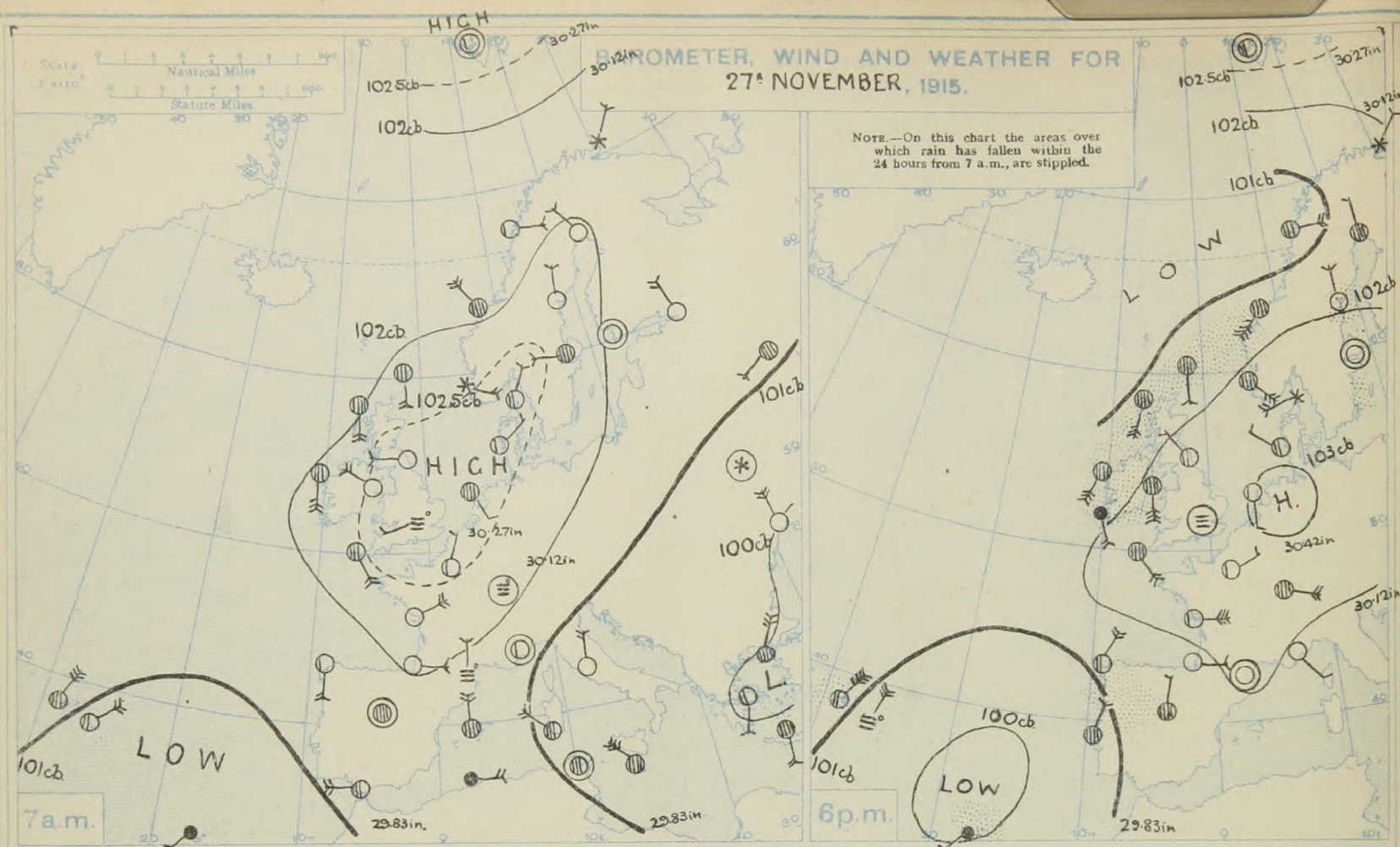
# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 332. Sunday, 28<sup>th</sup> November, 1915.

	STATIONS.	YESTERDAY EVENING.						THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.						Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.					
				Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.	Lerwick ...	1014.3	41	S	2	om	1006.5	-2	43	+5	SSW	4	-	om	4	2	44	36	c	c om	omd	Hours.		
	Deerness ...	1013.9	40	SSW	4	o	1006.4	-2	41	+7	SW	2	-	c	2	2	43	34	bc.c	c.o	op.c	0.0		
	Stornoway ...	1011.2	45	SSW	5	or	1005.2	-3	40	-1	S	3	-	bc	3	12	46	40	odp.o	or	opq.bc	0.0		
	Castlebay (Barrisd.)	1013.0	48	SSW	5	o	1005.9	-3	47	+2	SW	3	-	o	4	6	48	43	ob	op.o	op.o	0.0		
	Glasgow ...	1019.8	39	SSW	3	o	1012.2	-3	40	+11	SSW	4	-	or	6	6	41	29	ogm	ogm	arg	0.0		
	Eskdalemuir ...	1023.0	33	SSE	3	o	1015.8	-4	32	+11	SSE	3	-	os	9	34	20	ox	o	o.o.s	0.0			
	Malin Head ...	1019.0	40	SW	6	cqr	1009.8	-5	41	+4	SW	6	-	omq	6	-	42	36	omq	cq	omq	0.0		
	Blackod Point ...	1014.3	46	SSW	6	omp	1006.4	-4	45	+1	SSW	5	SW	omp	5	5	47	44	omp	omp	omp	0.0		
	Valencia ...	1018.7	47	SSE	3	r	1012.5	-4	46	+7	S	5	-	o	4	3	50	38	bc.c.o	o.b.r	r.o	0.0		
	Roche's Point ...	1022.3	48	S	5	o	1016.3	-2	45	0	SSW	6	-	o	6	2	48	44	op.o	op.o	op	0.0		
	Birr Castle ...	1020.4	42	SSE	2	o	1013.9	-2	41	+2	S	2	-	c	1	1	44	38	or	o	o.c	0.0		
	Donaghadee ...	1019.5	41	SW	4	ogmp	1012.7	-3	41	+5	SSW	5	-	ompq	4	1	43	34	om	og.gm	ogmpq	0.0		
	Liverpool (Bidston) ...	1025.0	32	SE	2	m	1018.9	-2	32	+7	SE	3	E	o	3	-	36	25	f.cu	lm	c.ox	3.5		
	Holyhead ...	1023.0	41	S	6	omqg	1016.3	-3	45	+8	SSW	6	-	o	6	5	46	36	bv	brq	om.or	5.4		
	Pembroke (St. Ann's) ...	1024.3	43	SSW	5	bcq	1018.3	-2	48	+3	SSW	4	S	cq	5	1	45	39	bcq	bcq	cqp	5.0		
	Scilly (St. Mary's) ...	1023.4	44	SSE	4	o	1018.0	-3	39	-5	SE	6	SE	og	5	-	48	37	c	c.o	c.v.c.o	4.6		
	Falmouth ...	1025.1	43	S	3	o	1019.4	-4	38	-3	SE	4	-	o	4	-	46	38	c.o	oz.o	o	2.9		
	Jersey (St. Aubin) ...	1026.5	35	SE	2	bm	1021.8	-2	32	-6	ESE	4	-	b	3	-	41	31	o.bc.b	b	bm.b	4.6		
	Portland Bill ...	1026.7	41	ENE	3	b	1022.5	-2	39	+4	SSE	4	S	c	4	-	44	35	b	b	c	0.0		
	Dungeness ...	1027.2	37	NNE	1	c	1025.3	-2	32	+6	SSE	3	S	bc	3	-	37	25	bcp	bc	bc	0.0		
	Dover ...	1027.4	36	SE	3	o	1025.4	-2	30	0	S	4	S	b	6	4	37	29	ops	bc.ops	o.c.bc.b	0.7		
NORTH EUROPE.	Wick ...	1014.6	39	SSW	2	r	1007.3	-2	41	+11	-	0	-	o	3	0.4	44	29	lom	omp	om	0.0		
	Nairn ...	1015.4	40	SW	1	ou	1007.5	-2	44	+14	SW	1	-	c.g	2	0.2	44	28	og	ou	od.c	0.0		
	Aberdeen ...	1018.5	36	SSW	4	o	1009.8	-3	40	+12	SW	3	-	o	3	-	40	28	bc.oz	oz	og	0.0		
	Leith ...	1021.2	40	SW	2	o	1012.8	-3	40	+11	SW	1	-	o	4	-	40	29	og.c.o	og.c.o	og.c.o	0.0		
	Tynemouth ...	1024.2	34	NW	1	bcms	1016.4	-5	35	+6	SW	4	-	ogm	4	1	38	28	f	bm	ogm	0.0		
	Spurn Head ...	1027.8	38	WSW	3	bc	1021.3	-5	31	-4	SSW	5	-	bcq	5	-	42	30	bcms	bc	bc	4.0		
	Yarmouth ...	1028.5	37	S	4	bc	1024.5	-5	34	-3	SW	5	-	c	4	-	41	33	bc	bc	c	5.7		
	Clacton-on-Sea ...	1027.8	37	NNW	1	c	1025.0	-1	34	+6	SSE	5	S	bc	4	-	39	27	bc.bc	bc.c	c.bc	4.5		
	Nottingham ...	1027.5	29	W	1	b	1021.9	-2	27	+4	S	1	-	b	4	-	36	21	bm.x	bm	b	0.9		
	Bath ...	1027.4	26	N	2	b	1022.0	-2	25	+3	S	2	SW	o	4	-	36	20	m.b	b.m	bm.o	4.0		
FRANCE, &c.	Sth Farnborough ...	1027.8	25	-	0	m	1023.3	-1	32	+10	SE	3	S	o	4	0.1	35	18	bz	bzm	m.b.o	3.2		
	London (Kew Obs.) ...	1028.1	24	-	0	bfx	1023.7	-2	33	+8	S	3	-	oxm	4	-	33	22	bxm	bfx	fx.omx	0.0		
	Spitsbergen ...	1026.9	-22	-	0	b	1023.9	-1	-22	-2	S	2	-	b	4	-	-20	-35	-	-	-	-		
	Vardö ...	1018.0	19	NE	2	S	1017.2	0	19	-2	E	1	-	bc	2	-	21	16	-	-	-	-		
	Bodö ...	1005.2	25	E	4	C	1002.0	-1	19	-4	E	8	-	b	4	-	27	18	-	-	-	-		
	Christiansund ...	1012.4	36	SW	7	o	1004.8	-3	39	+5	SW	4	-	r	6	1	39	34	-	-	-	-		
	Skudesnaes ...	1019.5	39	SSW	5	o	1011.9	-3	41	+9	SW	6	-	o	5	1	41	32	-	-	-	-		
	Færder (Xania Fjord) ...	1020.3	30	WSW	2	b	1013.3	-4	39	+18	SW	6	-	o	3	-	39	21	-	-	-	-		
	The Scaw (Skagen) ...	1024.4	28	WSW	3	S	1017.6	-2	36	+11	WSW	5	-	o	5	1	39	25	-	-	-	-		
	Blaavands Huk ...	1027.9	32	NW	1	bc	1023.8	-2	37	+16	WSW	4	-	o	4	-	37	19	-	-	-	-		
SOUTHERN EUROPE.	Haparanda ...	1020.0	-8	N	2	b	1017.6	-1	-4	-4	NE	2	-	o	4	-	1	-9	-	-	-	-		
	Hernösand ...	1017.6	10	N	2	o	1012.3	-5	21	+18	SW	5	-	o	4	-	21	1	-	-	-	-		
	Stockholm ...	1022.0	14	-	0	b	1012.7	-3	27	+15	SSW	2	-	o	4	-	27	12	-	-	-	-		
	Wisby ...	1023.5	23	NE	4	c	1017.0	-5	32	+7	WSW	6	-	S	4	-	32	19	-	-	-	-		
	Karlstad ...	1022.0	19	-	0	b	1013.1	-5	32	+23	W	2	-	o	4	-	32	7	-	-	-	-		
	Petrograd (S.A.M.T.) ...	1019.5	10	WNW	2	b	1019.1	0	12	+5	NNW	2	-	o	4	-	14	7	-	-	-	-		
	The Helder ...	1030.0	19	S	1	b	1027.5	-2	16	-11	S	3	-	b	2	-	32	12	-	-	-	-		
	C. Gris Nez ...	1026.7	28	ENE	3	b	1025.7	-2	23	-7	SE	3	-	b	2	-	37	23	-	-	-	-		
	La Hève ...	1025.7	34	S	3	c	1023.5	-2	25	-7	SE	3	-	m	2	-	36	23	-	-	-	-		
	Ushant ...	1025.0	38	ESE	5	b	1018.4	-7	35	-4	ESE	5	-	b	3	-	50	34	-	-	-	-		
FRANCE, &c.	Brest (St. Mathieu) ...	1025.0	38	ESE	5	b	1018.4	-7	35	-4	ESE	5	-	b	3	-	50	34	-	-	-	-		
	Roche fort (Ile d'Aix) ...	1023.7	32	E	6	b	1019.0	-5	25	-5	E	6	-	c	4	-	41	23	-	-	-	-		
	Biarritz ...	1019.0	36	E	2	b	1012.4	-3	30	-2	E	3	-	b	2	-	43	28	-	-	-	-		
	Paris ...	1028.4	27	ENE	1	b	1025.9	-2	18	-3	E	2	-	b	4	-	34	18	-	-	-	-		
	Belfort ...	1028.7	21	E	4	o	1030.0	0	12	-4	ENE	4	-	m	4	-	30	10	-	-	-	-		
	Lyons ...	1026.6	25	N	3	b	1027.7	0	16	-12	NNE	1	-	b	4	-	32	15	-	-	-	-		
	Nice ...	1018.1	36	SE	1	b	1025.5	75	34	-1	-	0	-	c	2	-	45	32	-	-	-	-		
	Perpignan ...	1020.2	36	-	0	b	1022.3	0	30	-6	SW	1	SE	o	4	-	46	25	-	-	-	-		
	Sanguinaire ...	1018.9	54	NE	4	bc	1006.3	-2	48	+5	SSE	1	-	r	1	?	55	43	-	-	-	-		
	Corunna (7 a.m.) ...	1015.0	48	NNE	1	o	1013.1	0	48	+9	SE	1	-	r	4	5	50	39	-	-	-	-		
SOUTHERN EUROPE.	Lisbon (9 a.m.) ...	1007.7	57	NNE	2	o	1001.7	-3	61	-	ESE	3	-	r	5	7	61	57	-	-	-	-		
	Gibraltar ...	1015.7																						

## RAINFALL. Equivalents of Millimetres. in Inches.

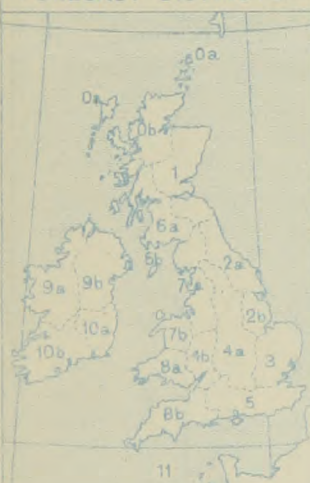
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02</





**FORECASTS FOR THE 24 HOURS NOON SUNDAY TO NOON MONDAY.**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.

South Cone.

North Cone.

Signals hoisted this morning.

South Cone.

North Cone.

*No Warnings  
Issued.*

Western Channel and Bay

- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | Fresh or strong South-Westerly winds; dull, some rain; becoming milder.                       |
| 1  | b |   |   |
| 2  | a | } | Same as No. 5.  |
| 3  | b |   |   |
| 4  | a | } | Moderate or fresh Southerly winds; dull, some rain; rather cold.                              |
| 5  | b |   |   |
| 6  | a | } | Fresh South-Easterly winds; fair at first, then dull, with some rain; rather cold.            |
| 7  | b |   |   |
| 8  | a | } | Same as Nos. 0 to 2.  |
| 9  | b |   |   |
| 10 | a | } | Same as No. 5.  |
| 11 | b |   |   |
| 12 | a | } | Fresh or strong Southerly or South-Westerly winds; dull, some rain; temperature about normal. |
| 13 | b |   |   |
| 14 | a | } | Fresh South-Easterly winds; sea rough; dull, squally, some rain later.                        |
| 15 | b |   |   |

**FURTHER OUTLOOK.**

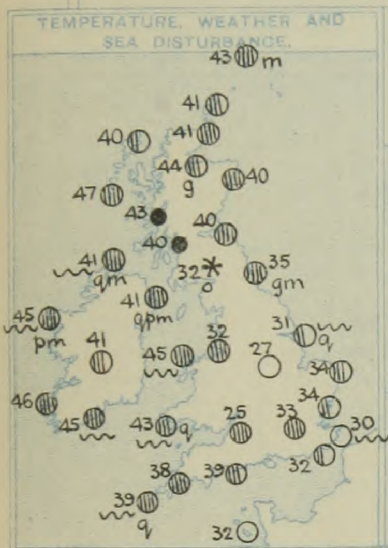
R. G. K. LEMPFFERT, Superintendent, Forecast Division.

NAPIER SHAW, Director



GENERAL INFERENCE.

Cyclonic conditions  
are spreading over the whole of  
the British Isles.



EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**WIND.**—Direction is shown by arrows flying with the wind.

Force, on the scale 0-12, is indicated by the number of feathers. Calm

**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky & clouded. ○ sky & clouded.

○ sky & clouded. ○ overcast sky. ● rain falling.

\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.

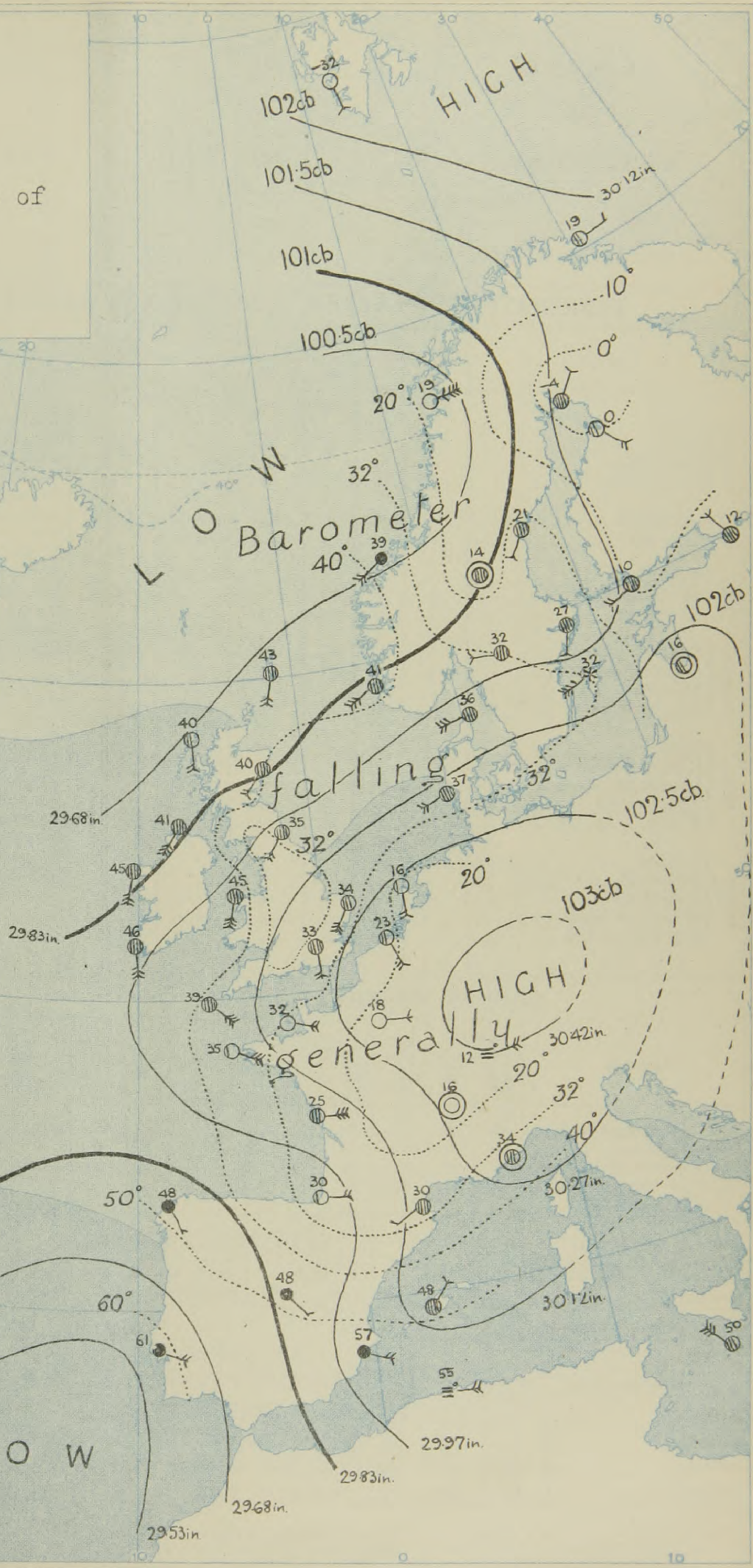
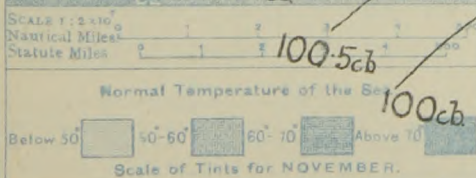
⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough High

inches.  
31

30

29





## DAILY WEATHER REPORT.

Sunday, 28th November, 1915.

REPORTS  
FOR  
YESTERDAY.

27th November, 1915.

STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.									
	Barom.	Temp.	Wind.	Force	Weather.	Barometer.	Temp.	Wind.	Force	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.
	Milli- bars at M.S.L.	° F.	Dir.	0-12.		Milli- bars at M.S.L.	° F.	Dir.	0-12.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.
Petrograd	1011.0	16	N	2	0	1015.7	+2	7	-12	NNW	3	-	b	*	1
Paris	1019.7	26	NNE	3	6	1026.9	+3	21	-15	NNE	1	-	b	*	21
Rome	1003.1	46	N	1	0	1006.0	+5	39	-4	N	3	-	b	*	50

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
	mm. & ° F.	° F.				Hr.		mm. & ° F.	° F.				Hr.
Scotland.							Tunbridge Wells ...						
Banff ...	1	37	27	0	0	0.0	Margate ...	1	40	33	c	c	1.6
Carnoustie ...							Ramsgate ...	2	37	30	sh. c	c	1.1
St. Andrews ...				*	*		Hastings ...	-	38	29	b	c. b	4.9
Eng. N.E.							Bexhill-on-Sea ...						
Harrogate ...	-	41	26	b. bc	bc. b	3.5	Eastbourne ...	-	40	29	m. b	bc. bm	5.0
Skegness ...	0.1	41	31	o. bc	bc. b	2.9	Seaford ...	-	40	26	b	b	5.9
Eng. N.W.							Brighton ...	-	41	29	bx. b	b. bc	7.2
Morecambe ...	-	35	21	bm	c. o	1.4	Worthing ...	-	40	27	b	bm	6.9
Blackpool ...	-	35	21	f	c	0.0	Littlehampton ...	-	40	29	b	b	7.2
Southport ...	-	35	21	f	c	0.0	Bognor ...	-	40	28	b	b	7.2
Midlands.							Southsea ...	-	41	20	b	b	7.0
Buxton ...	-	36	17	bc	bc	2.1	Bournemouth ...	-	41	20	b	b	7.0
Leamington Spa ...	-	28	19	f	f	0.0	Weymouth ...	-	42	28	z. b	b	7.0
Malvern ...	-	28	17	bm	bc	1.2	Torquay ...	-	45	32	bc	bc	3.4
Ross-on-Wye ...	-	28	17	bm	bc	1.2	Paignton ...	-	46	36	c. o	o. o	2.9
Wales.							Falmouth ...	-	46	35	bc. c	o	3.0
Rhyl ...	-	40	23	bc	bc	6.3	Penzance ...	-	44	29	bz	bc. or	5.2
Colwyn Bay ...	-	41	24	o. c. b	bc. c	7.0	Newquay ...	-	41	32	bc. b	b. bc	6.8
Llandudno ...	-	43	35	bc	b	5.8	Ilfracombe ...	-	41	32	bc. b	b. bc	6.8
Aberystwyth ...	-	43	35	bc	b	5.8	Weston-super-Mare ...	-	41	32	bc. b	b. bc	6.8
Tenby ...	-	43	35	bc	b	5.8							
England, E.													
Cromer ...	-	39	25	bc	bc	5.1							
Lowestoft ...	-	38	25	bc. b	bc. c	5.1							
Felixstowe ...	-	38	25	bc. b	bc. c	5.1							
Walton-on-Naze ...	-	40	28	b	b	7.0							
Southend-on-Sea ...	-	40	28	b	b	7.0							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m.	9 a.m.		In Screen.	Min. on			Fore- noon.	After- noon.	Night.
	Yester- day.	To- day.		Max.	Min.	Grass.				
Greenwich (Royal Obs.)	68	79	2.2	38	23	18	-	bf	bc. m	bc. or
City (Bunhill Row)	*	*	0.3	*	*	*	-	*	*	*
Westminster (St. James's Pk.)	72	78	0.0	29	25	23	-	f	f. bc	b
Camden Sq. (Brit. Rainfall)	69	86	3.9	39	26	25	-	bm. b	b.	*
Hampstead (Reservoir)	*	82	4.4	35	26	9	-	bc. or	bc. or	om
Richmond Park	*	*	0.0							
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	85	92	0.0							
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
Total.				Average Rate.		Max. Rate.				
118 Joules				4.0 Milliwatts.		12. Milliwatts.				

## Additional Observations for Yesterday.

STATIONS.	Rain- fall.	TEMPERATURE.		WEATHER.		Sun- shine for Yester- day.
		In Screen.	Night	Night.	Fore- noon.	
		Max.	Min.	Grass.	After- noon.	
Dublin to 4 p.m.	-	43	33	28	bx. o	0
Darwen to 9 p.m.	-	36	26	20	bc	o. b
Manchester "	-	34	17	*	of. c	ma. b
Birmingham "	-	37	24	11	f	c. b
Oxford to 8 p.m.	-	29	20	15	bm. f	fa. f
Teignmouth to 9 "	-	43	28	25	b. bc	bc. c
Plymouth "	-	43	31	*	bc	bc
S. Kensington	-	37	27	14	bx. b. f	cm. f
(Museum Grounds to 6 p.m.)	-	37	27	14	bx. b. f	cm. f

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

28th Nov. 1915.			
	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.38	11.41	3.44
Greenwich ...	7.39	11.41	3.43
Wick ...	7.40	11.42	3.55
Valencia ...	8.25	12.0	3.27

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° over a large area in Great Britain; at Kew it only touched 33°. The frost at night was rather less severe than of late. Precipitation occurred locally in Kent and more generally in the extreme north and west. Bright sunshine was fairly abundant in most parts of England.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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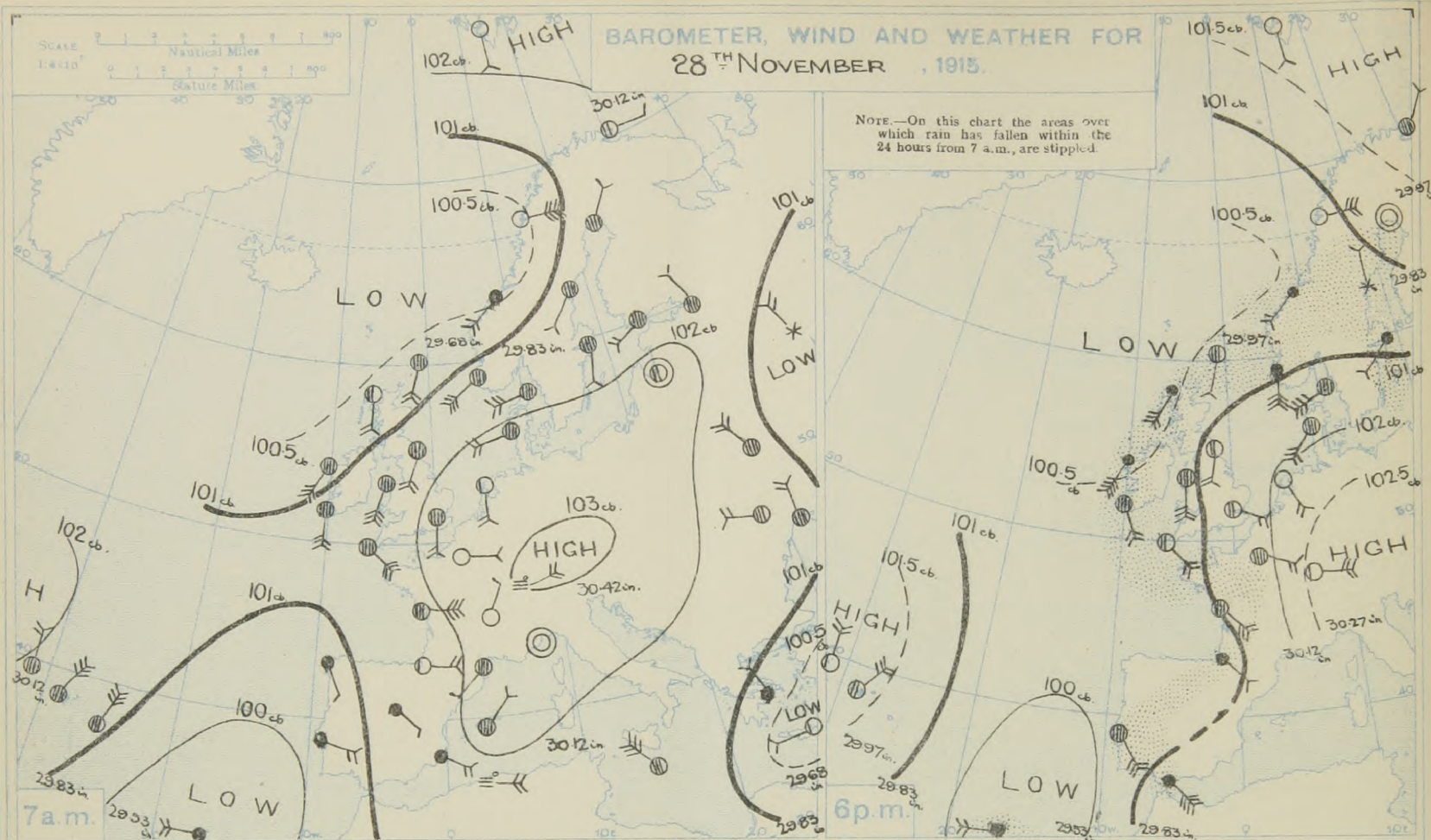


29th November, 1915.

370 metres S by E 2 miles per hour.

‡ The barometric change is expressed in half-millibars.





### FORECASTS FOR THE 24 HOURS NOON MONDAY TO NOON TUESDAY.

#### FORECAST DISTRICTS.



#### STORM WARNINGS.

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Cone.	South Cone.
North Cone.	North Cone.

South Cone hoisted yesterday at 7.00 p.m. in Districts 0, 6, 9, 10; & 10-day at 1 a.m. in Districts 7, 8; & also at 10.15 a.m. in Districts 0, 1.

Western Channel and Bay 11

Fresh South-Easterly winds; becoming strong to gale; dull, rainy; temperature about normal.

Moderate or fresh Southerly winds, becoming strong; dull, some rain, sleet probable in extreme south-east; cold.

Strong Southerly winds or gales; dull, some rain; temperature normal.

Strong South-Easterly winds or gales, veering Southerly; sea becoming rough or high; dull, rainy.

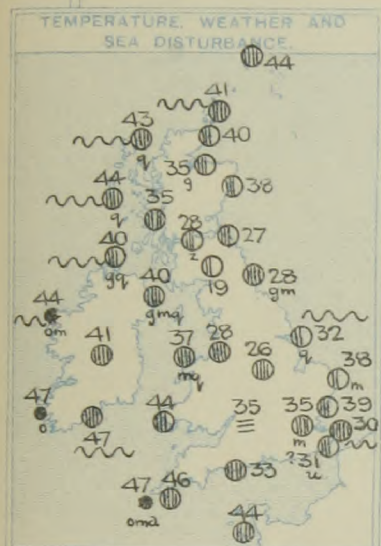
#### FURTHER OUTLOOK.



# SYNOPTIC CHART FOR 7 a.m., MONDAY, 29<sup>TH</sup> NOVEMBER, 1915.

## GENERAL INFERENCE.

The deep depression off Ireland is still advancing eastwards.



## EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**WIND.**—Direction is shown by arrows flying with the wind.

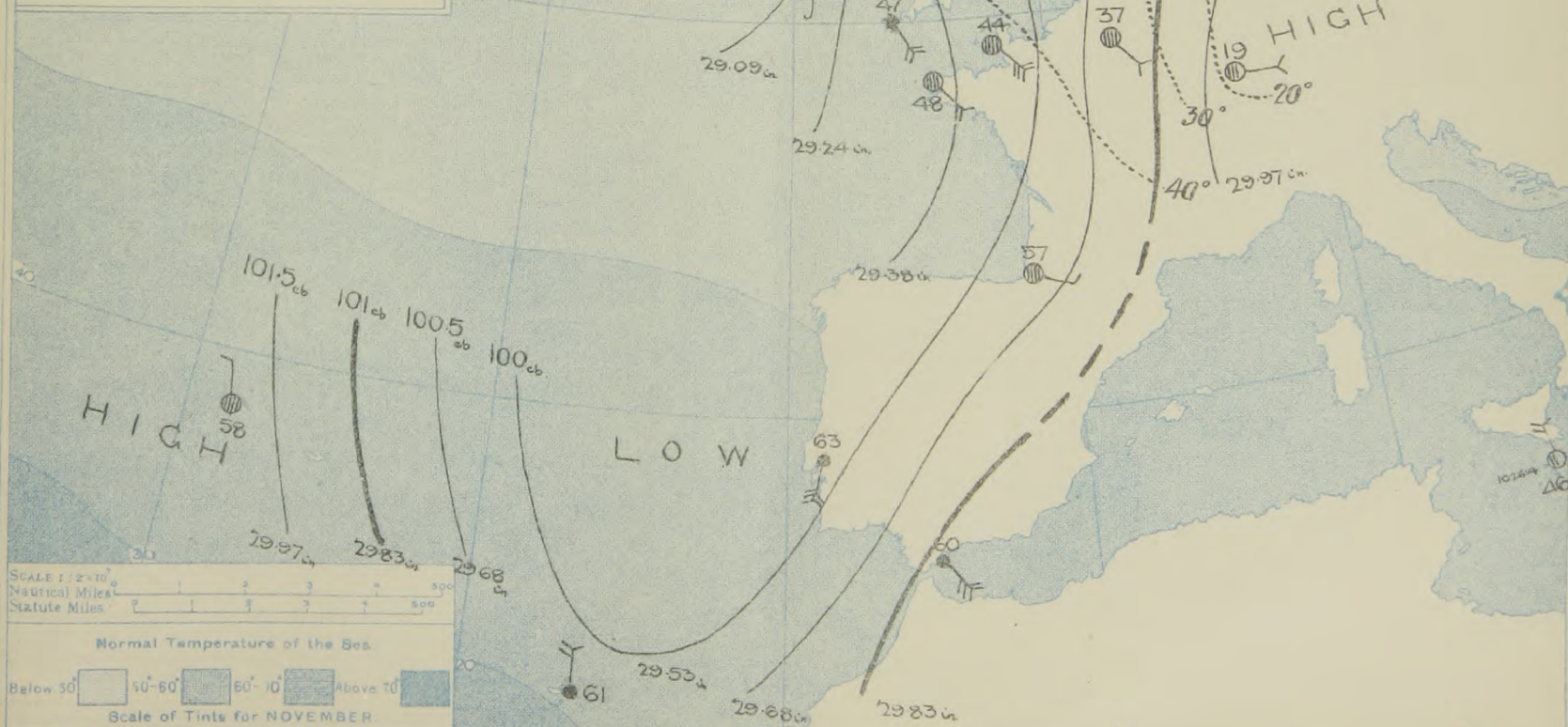
Force, on the scale 0-12, is indicated by the number of feathers. Calm

**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—

○ clear sky. ○ sky & clouded. ○ sky & clouded. ○ sky & clouded. ○ overcast sky. ● rain falling. \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder. T, thunderstorm.

**SEA DISTURBANCE.**—Rough. High.





# PILOT BALLOON ASCENTS for the PAST WEEK. Component Velocities to East and to North in Metres per Second.

Station Date & Hour.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.		Comp. to E.		Comp. to N.															
		S. Farnborough 24th		11h 38m.		Eskdalemuir 24th		12h 49m.		S. Farnborough 25th		7h 35m		Eskdalemuir 25th		13h		Benson 25th		12h 10m		S. Farnborough 26th		7h 26m.		Eskdalemuir 26th		13h		S. Farnborough 27th		7h 30m.		Falmouth 27th		11h.		Benson 26th	
Heights in Kilometres.	4							+4	-15																														
	3							+4	-15																				-5	-10									
	2	+4	-8	+5	-10	+2	-9											-1	-15									-10	-6										
	1	-4	-8	+2	-6	0	-1	-1	0									-2	-14	-5	-5							-7	-6	-5	+8								
	0.5	-1	-5	+3	-4	+5	-6	-1	-5	+8	-10	-2	-12	-2	-3	-7	-6	-5	+5									-7	-6	-5	+5								
0	+2	-3	+4	-1	+3	-1	+1	-4	+2	0	+2	-3	-2	-2	+2	-2	-3	+3	0	-3							+2	-2	-3	+3									

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.		
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.			
	mm. & .	° F.	° F.			Hr.		mm. & .	° F.	° F.			Hr.		
Scotland.	{ Oban ... ..	10	44	41	r	o	0.0	England, S.E.	{ Tunbridge Wells ... ..						
	{ Banff ... ..	-	43	37	o.	o.c	0.0		{ Margate ... ..	-	32	20	c	c	0
	{ Carnoustie ... ..								{ Ramsgate ... ..	-	31	28	c	c	0.3
	{ St. Andrews ... ..				*	*			{ Hastings ... ..	-	38	31	c.o	bc.b.	0.4
Eng. N.E.	{ Harrogate ... ..	-	37	29.	c.o	c.o	0.0		{ Bexhill-on-Sea ... ..						
	{ Skegness ... ..	-	35	31	o.bc	bc.b.	0.7		{ Eastbourne ... ..	-	34	30	bc	bc.o	0.0
Eng. N.W.	{ Morecambe ... ..								{ Seaford ... ..						
	{ Blackpool ... ..		35	31	o	o	0.0		{ Brighton ... ..	-	40	30	bc.c.bc	bc	?
	{ Southport ... ..		36	21	o	o	0.0		{ Worthing ... ..	-	36	29	o	o	0.0
Midlands.	{ Buxton ... ..								{ Littlehampton ... ..	-	38	34	o	o	0.0
	{ Leamington Spa ... ..	-	35	26	bc.f	bc.f.	0.0		{ Bognor ... ..	-	38	30	o	o	0.0
	{ Malvern ... ..		35	28	c	bc	1.0	{ Southsea ... ..	-	36	31	o	o	0.0	
	{ Ross-on-Wye ... ..	-	36	23	bc.bc	bc.b.	0.0	{ Bournemouth ... ..	-	38	27	o	o	0.0	
Wales.	{ Rhyl ... ..	-	39	25	b	c.c.a	0.2	England, S.W.	{ Weymouth ... ..	-	38	28	o	o.c	0.0
	{ Colwyn Bay ... ..	-	40	35	bc	bc	0.0		{ Torquay ... ..	-	43	38	c	c	0.0
	{ Llandudno ... ..								{ Paignton ... ..						
	{ Aberystwyth ... ..	-	43	31	o.c.	c.o	0.0		{ Falmouth ... ..	-	41	37	o	o.bc.c.	0.0
	{ Tenby ... ..								{ Penzance ... ..						
England, E.	{ Cromer ... ..								{ Newquay ... ..	-	40	36	bc	c	0.5
	{ Lowestoft ... ..							{ Ilfracombe ... ..	-	39	35	o	o	0.0	
	{ Felixstowe ... ..	1	34	30	c	c	0.4	{ Weston-super-Mare ... ..							
	{ Walton-on-Naze ... ..	0.3	33	30	bc.cm	c.cm	0.5								
	{ Southend-on-Sea ... ..	-	35	31	bm	bm	1.3								

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.		Rain- fall. mm.	WEATHER.		
	3 p.m. Yester- day.	6 a.m. To-day.		In Screen.	Min. on Grass.		Fore- noon.	After- noon.	Night.
Greenwich (Royal Obs.) ...	91	99	0.9	36	27	21	bc	c	0.02
City (Bunhill Row) ...	x	x		x	x	x	x	x	x
Westminster (St. James's Pk.)	84	95	0.0	39	30	26	m.bc	m.o	m.o.f
Camden Sq. (Brit. Rainfall)		95	0.0	37	28	26			
Hampstead (Reservoir) ...	x	71	0.0	36	26	16	c.o.c	bc.o.f	o.f
Richmond Park ...	x	x	0.3						
Kew. (See front page.)									
(Greenwich and Camden Square air temperatures are in Glaisher screens.)									
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.									
				Total.	Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)	85	92	0.0	255 Joules	86 Milliwatts		17 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.		Night Min. on Grass.	WEATHER.		Sun- shine for Yester- day.
		Max.	Min.		Fore- noon.	After- noon.	
Dublin to 4 p.m.		44	40	34	o.bc	c.o	c.c
Darwen to 9 p.m.							
Manchester "							
Birmingham "							
Oxford to 8 p.m.							
Teignmouth to 9 "		42	38	37	o	o	0.0
Plymouth "							
S. Kensington (Museum Grounds to 6 p.m.)		37	28	16	f.bc	bc.c.c	c.c

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

29th & 30th November, 1915.			
	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.37	11.41	3.43
Greenwich ...	7.42	11.42	3.43
Wick ...	8.35	12.0	3.46
Valencia ...	9.28	12.39	4.23

## NOTES ON YESTERDAY'S WEATHER.

The day was almost sunless in all districts and temperature remained below 35° at a good many stations in the south-east. A minimum of 18° was reached at Eskdalemuir. Little precipitation occurred in this country, except in the west of Ireland; but a fall of 95 mm. is reported from Gibraltar.

NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling 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; s. snow; t. thunder; u. ugly, threatening sky; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 334

Tuesday,  
30th November, 1915.

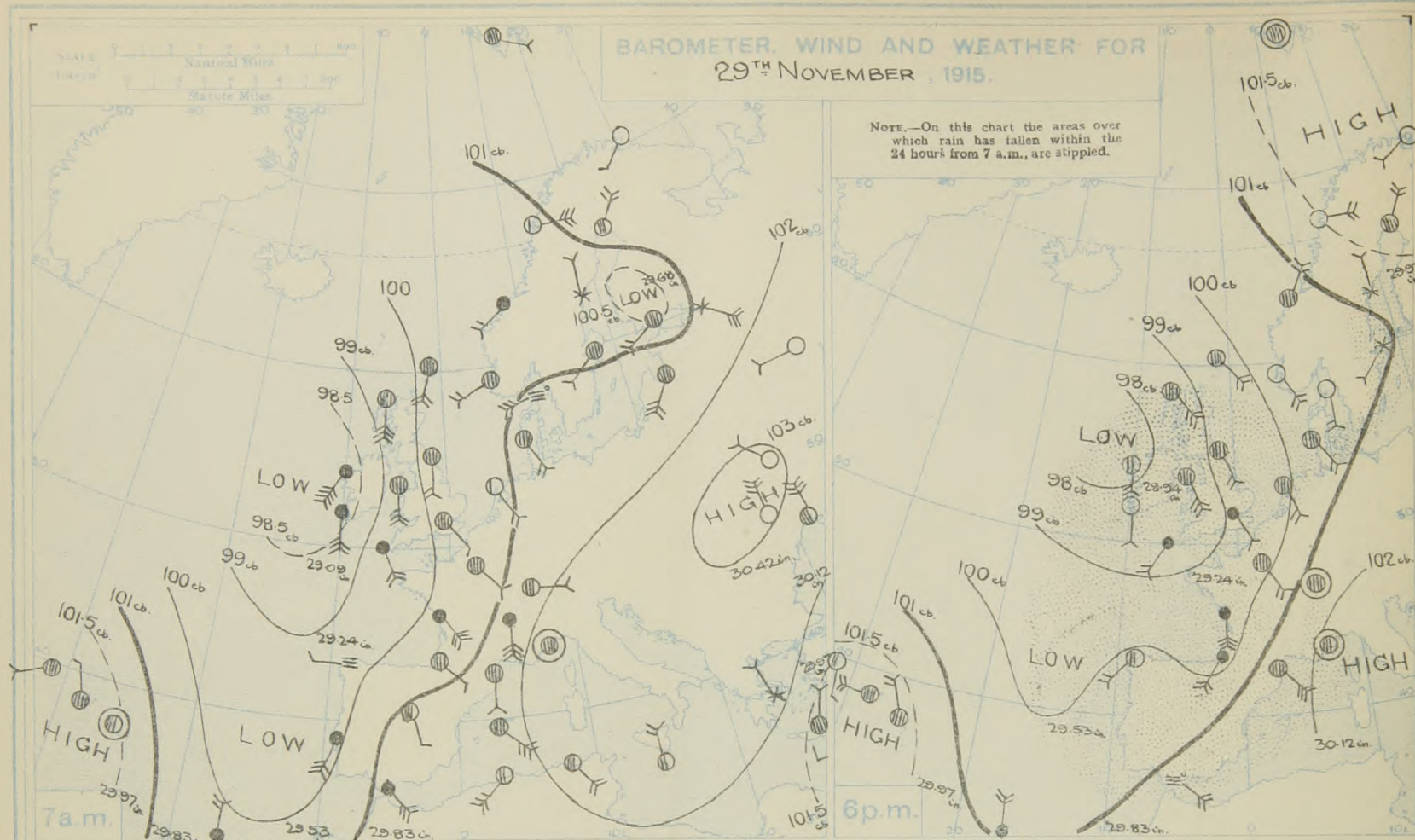
	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
		Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	Temp. °F.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
				Dir.	Force 0-12.						Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick	999.7	42.	SE	4	om	994.8	-2	41	-3	SE	8	-	dy	7	-	44	39	omg	om	egg	Hours.	
	Deerness	992.9	42.	SE	7	om	984.1	-3	40	-1	E	7	-	ur	6	5	43	40	c.ou	c.ou	our	0.0	
	Stornoway	986.4	41	SE	5	og	978.1	-3	42	-1	SE	6	-	org	5	12	44	40	eg	c.og	org	0.0	
	Castlebay (Barra Isd.)	983.9	40	E	5	op	976.3	-3	42	-2	SE	3	-	r	3	16	44	38	o	op	op	0.0	
	Glasgow	987.8	32	ESE	3	o	979.9	+1	39	+11	SW	3	-	o	8	40	25	egg	eg	as rs. o	0.0		
	Eskdalemuir	988.7	32	ESE	3	ors	982.0	+2	35	+16	S	1	-	bc	12	37	19	bc. com	om. ors	ors. bc	0.0		
	Malin Head	980.5	41	SE	5	omrg	977.9	0	36	-4	S	3	S	bc	3	5	41	36	omrg	omrg	bc	0.0	
	Blackod Point	978.9	43	S	3	bc	977.3	-2	46	+2	SSW	3	SW	comp	3	17	46	44	omp	omp	omp	0.0	
	Valencia	981.4	41	S	2	b	980.5	0	46	-1	SSW	3	SW	c	4	8	47	40	omr	c. b.	bcp	2.4	
	Roche's Point	983.5	44	-	0	bc	983.4	0	44	-3	-	0	W	c	4	8	48	41	r	r. o. bc	bcp. bc	0.0	
	Birr Castle	981.3	39	W	2	c	980.6	0	36	-5	SSE	1	S	bc	7	45	33	or	or. c	bc. c.	0.0		
	Donaghadee	981.8	43	SSE	6	omrg	980.4	0	35	-6	WSW	3	SW	bcm	3	9	46	34	omdg	omrg	omr. bc	0.0	
	Liverpool (Bidston)	985.8	39	ESE	3	o	984.7	0	36	+8	SSE	2	SE	o	2	1	40	28	og	od	eg	0.0	
	Holyhead	982.8	46	SSE	5	ogm	982.5	0	46	+9	S	5	S	bc	4	4	47	36	ogm	ogmp	omgr	0.0	
	Pembroke (St. Ann's)	982.4	49	S	5	cgp	984.3	+1	47	+3	SW	4	SW	bcp	4	6	50	43	o	od. o	bcp. o	0.0	
	Scilly (St. Mary's)	985.5	46	SSW	3	omr	986.1	0	48	+1	SW	5	SW	cgp	6	5	51	44	op	omd	bcp. cgp	0.2	
	Falmouth	986.2	45	W	4	r	987.3	+2	46	0	SSW	3	-	bc	8	3	50	42	d. o	or	rg. c. bc	0.0	
	Jersey (St. Aubin)	990.3	51	S	3	bc	993.3	0	48	+4	SSW	4	SW	c	4	6	52	44	ogp	op. bc	b. o. c	0.0	
	Portland Bill	987.9	51	SSW	4	or	988.8	+1	49	+16	WSW	6	SW	cgp	4	1	51	45	od	od	cp	0.0	
	Dungeness	992.5	45	SSE	7	or	991.3	+2	47	+16	S	6	SW	crg	5	9	47	31	bc. or	or	org. c	0.0	
	Dover	992.7	44	SSW	5	op	992.4	+2	46	+16	SSW	5	SW	c	6	8	48	30	c. op	op	or. o. c	0.0	
NORTH EUROPE.	Wick	991.7	43	SE	6	m	981.8	-3	44	+4	SE	6	-	r	5	4	44	39	cgm	cgm. o	omr	0.0	
	Nairn	989.4	38	ESE	2	ogm	977.1	-5	42	+7	E	2	-	om	2	1	42	32	cgm	em	ogp	0.0	
	Aberdeen	991.5	42	SE	5	o	978.8	-5	43	+5	S	4	-	r	5	15	46	37	c. c. o	o	org	0.0	
	Leith	990.0	35	ESE	1	s	979.3	-1	40	+13	W	1	W	c	1	2	46	26	c. b. m. og	o	ogr. o	0.0	
	Tynemouth	990.4	40	SSE	3	opm	981.9	-1	39	+11	SSW	2	-	bcm	4	2	40	28	om	cgm	bcp	0.0	
	Spurn Head	991.3	41	SSE	6	ru	986.7	+2	39	+7	SSW	4	-	bc	4	8	42	31	c. og	org	ogr	0.0	
	Yarmouth	994.7	42	SSE	5	omd	990.2	+3	43	+5	WSW	4	W	bc	5	2	46	30	bcm	om	od. bc	0.0	
	Clacton-on-Sea	992.8	43	SSE	5	o	990.9	+1	42	+3	SSW	4	SW	bc	3	1	44	38	ogd	ogd	ogd. bc	0.0	
	Nottingham	988.7	39	SE	3	o	986.8	0	38	+12	SW	2	SW	b	3	3	45	25	oms	or	or. c	0.0	
	Bath	987.4	49	S	1	r	988.3	0	38	+3	?	2	SW	c	1	51	33	m. od	ogmd	d. or. c	0.0		
	St. Farnborough	989.0	36	SE	2	r	989.7	+1	42	+6	S	2	-	or	8	6	48	36	md	md	r. o. bc. r	0.0	
	London (Kew Obsy.)	989.9	46	SSE	2	omd.	990.5	+2	42	+7	SW	2	-	om	8	3	49	35	om. d. d. om	om. om. om	om. om. om	0.0	
FRANCE, &c.	Spitsbergen	1019.4	-6	-	0	o	1020.8	+2	-26	-26	S	1	-	b	0	0	-29	-	GALES.				
	Vardö	1016.2	14	WSW	2	b	1015.0	+2	25	+11	NE	2	-	s	2	16	10	-	Duration and Extreme Force				
	Bodö	1015.0	16	E	4	b	1018.1	0	12	-6	E	5	-	b	2	18	10	-	in British Islands.				
	Christiansund	1008.0	36	NE	4	o	1006.1	-2	30	-9	NE	5	-	b	5	37	28	-					
	Skudesnaes	1003.3	37	SSE	4	b	995.3	-6	37	-6	SSE	5	-	o	4	39	34	-					
	Færder (X'ianta Fjord)	1008.2	36	S	3	b	1005.6	0	30	-11	ESE	4	-	o	2	41	30	-					
	The Scaw (Skagen)	1008.0	32	S	3	b	1008.0	-2	34	+2	SE	4	-	m	4	36	30	-					
	Blaavands Huk	1004.7	28	SSE	3	o	996.0	-4	30	+3	SE	4	-	r	5	Trace	28	21					
	Haparanda	1018.0	1	NE	4	o	1023.5	+3	-8	+1	N	4	-	b	0	-	-9	-					
	Hernösand	1012.3	16	N	2	s	1018.9	+3	14	-7	N	2	-	o	2	21	14	-					
	Stockholm	1008.8	32	SW	2	s	1011.8	+2	25	-9	E	2	-	o	3	36	25	-					
	Wisby	1012.2	30	SSW	4	b	1011.7	0	25	-7	SE	2	N	m	4	32	23	-					
SOUTHERN EUROPE.	Karlstad	1009.3	32	W	2	o	1009.2	0	25	-12	NE	2	-	b	0	43	21	-					
	Petrograd (5 a.m. G.M.T.)																						
	The Helder	998.7	34	SSE	3	o	991.8	0	43	+17	S	5	-	o	3	4	43	25	-				
	C. Gris Nez	993.1	42	S	6	r	992.8	+1	46	+10	SSW	5	-	b	5	6	46	36	-				
	La Hève	991.5	46	SE	5	r	994.6	0	46	+7	SW	5	-	o	5	18	48	39	-				
	Ushant																						
	Brest (St. Mathieu)	991.1	50	WSW	6	o	993.1	0	48	0	SW	5	-	c	4	1	54	45	-				
	Rochefort (Ile d'Aix)	997.2	48	S	6	r	1002.3	+2	48	0	SW	3	-	c	11	50	46	-					
	Biarritz	997.6	63	SW	4	r	1005.1	+1	52	-5	S	2	-	o	2	11	64	50	-				
	Paris	998.6	45	SSE	4	o	999.5	+3	43	+6	SSW	3	-	b	8	46	37	-					
	Belfort	1010.3	32	-	0	o	1007.3	0	32	+13	-	0	-	r	5	34	49	-					
	Lyons																						
Nice	1021.7	37	-	0	c	1015.8	-3	40	+3	-	0	-	r	4	6	40	34	-					
Perpignan	1011.5	50	SE	5	o	1005.0	+1	50	+2	SW	2	SW	o	1	52	48	-						
Sanguinaire	9	47	E	2	r			46	0	SE	3	-	r	3	2	59	43	-					
SOUTHERN EUROPE.	Corunna (7 a.m.)	1000.6	55	SW	3	bc	1005.1	+1	52	-2	SW	5	-	r	5	3	55	48	-				
	Madrid (8 a.m.)	1005.1	57	SSW	4	bc	1008.6	+2	52	+4	SW	1	-	r	10	59	48	-					
	Lisbon (9 a.m.)																						
	Gibraltar	1010.5	60	SE	4	m	1010.5	0	62	+2	SE	3	-	r	3	26	62	59	-				
	Rome																						
Malta (8 a.m.)						1021.9	0	57	+11	SE	4	-	o	2	57	46	-						
SOUTHERN EUROPE.	Azores (Horta, 8 a.m.)	1016.3	6	W	4	o	1013.6	-2	63	+5	SSW	4	-	o	3	64	58	-					
	Madeira (Funchal)	1009.7	63	N	4	r	1016.0	+1	59	-2	?	?	N	o	?	68	59	-					

South Farnborough

Pilot Balloon Ascent at 7.40 a.m.

1,000 metres SW by W 35 miles per hour  
500 metres SW by W 25 miles per





**FORECASTS FOR THE 24 HOURS NOON TUESDAY TO NOON WEDNESDAY.**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

The Coasts upon which the Warning Signals are at present displayed are indicated thus:—

Signals hoisted yesterday.	Signals hoisted this morning.
South Coast.	South Coast.
North Coast.	North Coast.

South Coast hoisted in Districts 7 and 8 at 1 h. 40 m.  
District 1 at 10 h. 15 m.

Western Channel and Bay 11

Squally South-Easterly to Easterly winds; strong to gale at times; rainy, snow locally; moderate temperature.

Southerly breezes veering Westerly, fresh or strong at times locally; cloudy to fair, local showers; mild.

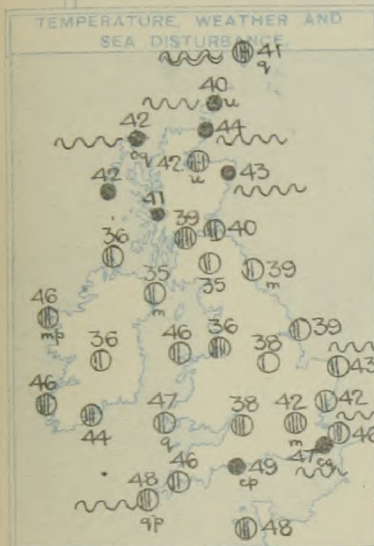
South-Westerly to Westerly breezes, fresh at times; sea rather rough; cloudy, some rain; moderate temperature.

**FURTHER OUTLOOK.**



GENERAL INFERENCE.

The conditions will  
continue wet in the far north,  
while improving in other regions.



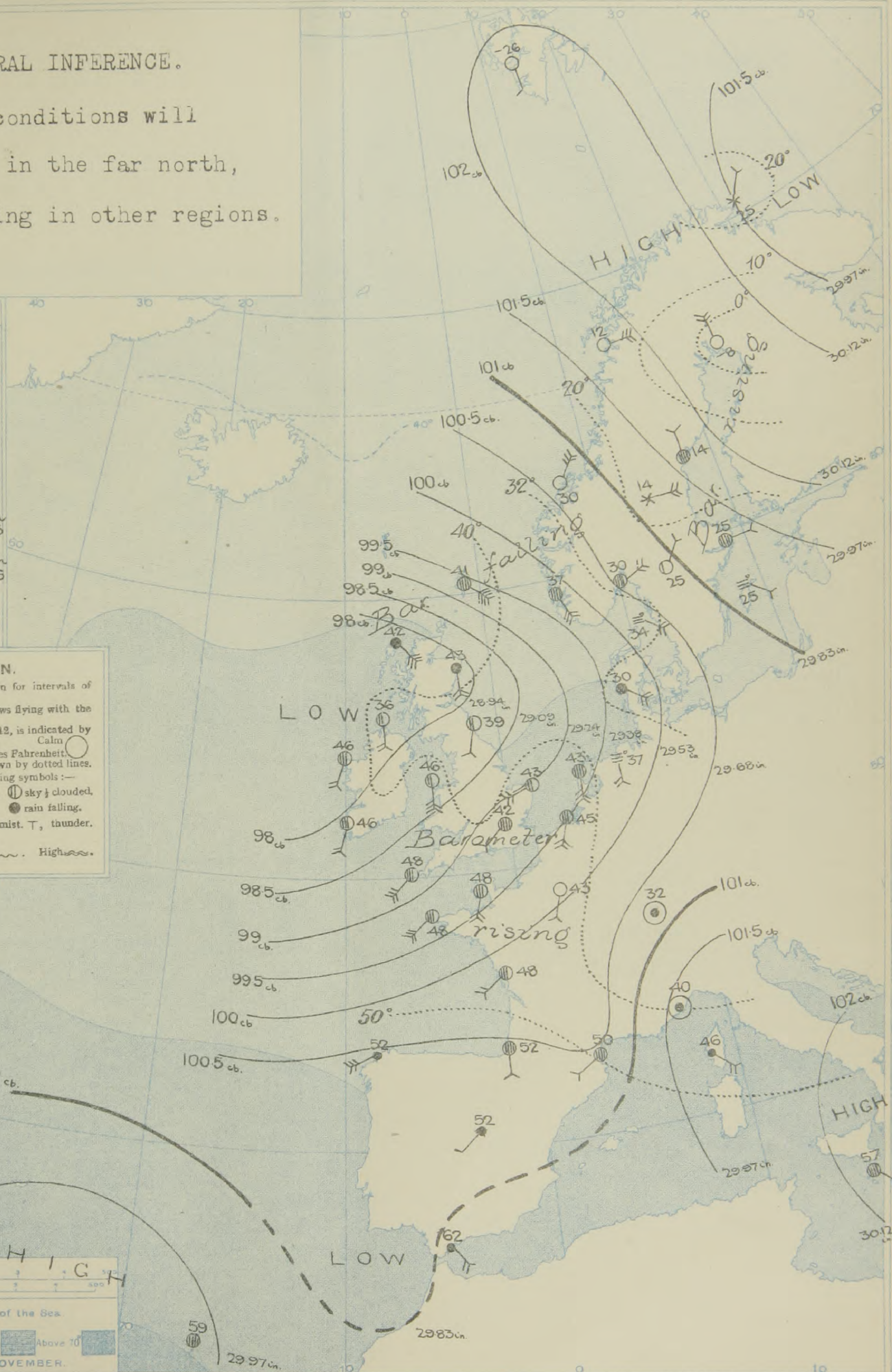
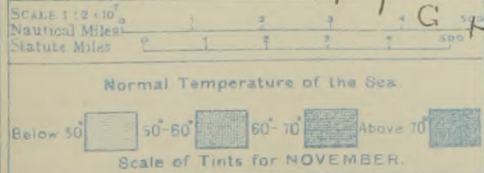
EXPLANATION.

**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind.  
Force, on the scale 0-12, is indicated by the number of feathers. Calm   
**TEMPERATURE.**—Given in degrees Fahrenheit.  
Isotherms shown by dotted lines.  
**WEATHER.**—Shown by the following symbols:—  
 clear sky. sky 1/2 clouded. sky 3/4 clouded. overcast sky. rain falling.  
\* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
⚡, thunderstorm.  
**SEA DISTURBANCE.**—Rough High .

Inches  
31

30

29





## DAILY WEATHER REPORT.

Tuesday, 30th November, 1915.

REPORTS  FOR  YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain- fall. Milli- metres.		Temp. Max. Min.	
		BAROM. Milli- bars at M.S.L.	TEMP.  ° F.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.					
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.  ° F.	Change in 24 hours.  ° F.	Direc.	Force 0-12.								
	Petrograd	1017.3	72	SSE	3	bc	1011.1	-3	14	+2	SE	5	-	S	*	1	16	10		
	RocheFort	1010.7	112	SSE	5	o	1001.9	-5	148	+23	SE	6	-	r	*	1	125	25		
	Lyons	1020.0	114	SSW	5	b	1015.1	8	140	+24	S	7	-	r	*	1	141	36		
	Nice	1025.1	39	E	3	o	1025.3	-1	37	+3	-	0	-	r	*	1	145	34		
	Perpignan	1019.4	26	SE	3	o	1015.5	-3	145	+18	S	2	-	o	*	Trace	148	30		
29th November 1915																				

30th November, 1915.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY, UP TO 6 p.m.

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
	mm. & ° F.	° F.	° F.			Hr.		mm. & ° F.	° F.	° F.			Hr.
Scotland.							Tunbridge Wells ...						
	12	36	34	05	0	00	Margate ...	2	44	30	0	od	00
	-	41	35	c.o	0	00	Ramsgate ...	1	42	30	oe	d	00
							Hastings ...	4	46	35	od	oe	00
		39	25	*	*	00	Bexhill-on-Sea ...						
Eng. N.E.		23	19	0	om	00	Eastbourne ...	1	47	34	odr	org	00
	0.3	40	30	c.o	od.o	00	Seaford ...	2	47	33	or	or	00
							Brighton ...	6	47	33	oe	oe	00
Eng. N.W.		4	39	27	0	od	Worthing ...	3	48	35	r	r	00
	3	36	25	og.o	o.or.o	00	Littlehampton ...	3	47	30	ro	od	00
	1	37	25	0	oe od	00	Bognor ...	3	49	37	od	od	00
							Southsea ...	3	48	35	od	od	00
							Bournemouth ...	2	50	36	oe	oe	00
Midlands.													

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
				24 HOURS ENDED 9 A.M. TO-DAY.						
				° F.	° F.					
Greenwich (Royal Obs.) ...	98	90	0.0	49	38	35	14	od	od	od.c.
City (Bunhill Row) ...	98	88	0.0	49	38	35	14	od	od	od.c.
Westminster (St. James's Pk.)	99	87	0.0	51	39	36	2	r	r	or.o
Camden Sq. (Brit. Rainfall)	98	88	0.0	49	38	36	3	fd	fd	oe
Hampstead (Reservoir) ...	98	91	0.0	48	34	38	3	of.d	c.or	oe
Richmond Park ...	98	91	0.0	48	34	38	3	of.d	c.or	oe
Kew. (See front page.)	98	91	0.0	48	34	38	3	of.d	c.or	oe
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
Total.				Average Rate.		Max. Rate.				
S. Kensington (Roof of M.O.)				47 Joules		1.6 Milliwatts.				

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM TO-DAY AND TO-MORROW.

Station.	30th Nov. 1915.			Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.			
Yarmouth ... ..	7.41	11.42	3.43	7.41	11.42	3.43
Greenwich ... ..	7.44	11.49	3.44	7.44	11.49	3.44
Wick ... ..	8.27	12.1	3.25	8.27	12.1	3.25
Valencia ... ..	8.27	12.30	4.23	8.27	12.30	4.23

NOTE.—The information relating to weather is indicated by the following letters:—b, blue sky; bc, sky half clouded; c, sky three parts clouded; d, drizzling 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; s, snow; t, thunder; u, ugly, threatening sky; v, visibility, unusual transparency; w, dew; x, hoar frost; z, dust-haze, or smoke.

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.			WEATHER.			Sun- shine for Yester- day
		In Screen.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	
		Max.	Min.					
		° F.	° F.					
Dublin to 4 p.m.	mm. §	° F.	° F.	° F.				Hr.
Darwen to 9 p.m.								
Manchester "								
Birmingham "								
Oxford to 8 p.m.	*							
Teignmouth to 9,,	2	50	40	38	oom	or	m	00
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	1	47	31	21	c	om.nd	om.d	

## NOTES ON YESTERDAY'S WEATHER.

Temperature was rather variable, the maxima ranging from 33° at Harrogate to 52° at Weymouth and Jersey. Rain was general, 16 mm. at Castlebay; snow fell in various parts of Scotland. The day was sunless nearly everywhere.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at M.O. and at the bookstalls at certain Railway Termini in London.



NOVEMBER, 1915.

Reports which arrived within 24 hours of the date to which they referred were inserted on Page 4 of the Daily Weather Report of the following day.



# ADDITIONS AND CORRECTIONS TO THE

DATE.	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day. Hours.
		BAROM. Milli- bars at M.S.L.	TEMP. ° F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP. ° F.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
				Direc.	Force 0-12.						Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
1.	Haparanda.	1022.0	21	-	0	m	1023.3	*	27	-5	E	2	-	0	*	9	34	16				
	Hernösand	1021.9	25	-	0	c	1019.3	*	32	+13	E	2	-	0	*	9	32	18				
	Stockholm	1016.4	37	ESE	4	o	1012.8	*	34	+2	ENE	2	-	s	*	2	37	32				
	Wibby	1014.3	36	E	2	o	1010.3	*	32	-4	-	0	-	f	*	5	37	32				
	Karlöf.	1015.9	32	-	0	s	1012.8	*	34	+6	-	0	-	s	*	1	34	28				
	Rome.	1019.5	54	-	0	o	1009.3	*	61	+13	S	2	-	o	*	3	61	32				
2	Rome.	1010.4	55	S	1	b	1011.8	*	55	-6	SE	1	-	o	*	13	63	54				
	Malta.	.	.	.	.	.	1016.2	*	68	+4	SSE	1	-	b	o	7	72	64				
3	Sanguinaire	*	57	SW	3	c	*	*	55	-3	S	3	-	r	4	8	63	52				
	Madrid	1006.9	46	W	2	bc	1009.9	+3	45	+2	WNW	2	-	c	*	1	52	41				
	Rome.	1007.1	57	S	1	r	1004.3	*	63	+8	SW	2	-	o	*	14	64	55				
4	Rome.	1001.0	54	S	2	r	1008.4	*	52	-11	-	0	-	r	*	11	66	52				
5	Faerder.	1014.1	36	NNE	4	o	1018.6	*	34	0	ENE	5	-	o	5	*	*	8				
6	Petrograd	1011.8	27	E	4	o	1008.2	*	23	-11	ENE	4	-	o	*	-	34	23				
	Sanguinaire.	*	58	E	3	bc	*	*	55	-2	E	3	-	bc	3	-	64	54				
7	Biarritz	1013.7	46	NE	2	f	1013.6	*	48	+2	E	1	-	f	1	8	48	46				
	Rome.	1017.6	61	-	0	b	1017.5	*	54	-9	NE	1	-	f	*	-	68	52				
8	Horta.	.	.	.	.	.	1025.7	*	61	0	-	0	-	o	2	-	64	59				
9	Rome.	1011.4	59	NE	1	o	1010.1	*	55	+1	-	0	-	b	*	-	63	54				
10	Rome.	1008.7	59	SW	1	o	1007.0	*	59	+4	SE	1	-	c	*	1	64	54				
11	Sanguinaire.	*	56	W	5	o	*	*	55	-3	NW	6	-	c	6	6	59	52				
12	Rome.	1013.2	50	NE	1	b	1015.3	*	43	-9	NE	1	-	o	*	1	59	41				
13	Belfort	995.1	54	WSW	8	o	991.4	*	49	+5	WSW	8	-	o	10	55	44					
	Madrid.	1011.5	55	SW	3	c	1016.0	+4	46	0	WNW	5	-	b	*	1	55	45				
15	Sanguinaire	*	?	NW	7	m	*	*	54		NW	7	-	m	?	?	?					
	Madrid	1023.7	48	WSW	3	c	1025.8	+1	41	+9	-	0	-	c	*	-	50	32				
	Rome.	1011.8	52	-	0	o	1008.0	*	54	+2	W	2	-	c	*	5	61	50				
16	Rome.	1014.1	46	SW	1	c	1010.3	*	50	-4	SE	2	-	r	*	4	54	41				
17	Petrograd.	1005.3	34	N	3	r	998.9	*	32	+2	NW	3	-	s	*	6	34	28				
	Rome.	1003.5	54	N	1	o	1013.1	*	41	-9	E	3	-	b	*	15	59	41				
18	Rome.	1020.0	39	N	1	b	1020.4	*	36	-5	E	1	-	o	*	-	48	30				
19	Petrograd	1025.3	32	NE	2	b	1023.0	*	30	-2	NE	2	-	s	*	-	32	28				
	Rome.	1019.4	45	NE	1	r	1017.0	*	46	+10	NE	1	-	r	*	2	63	45				
21	Madrid	1025.2	46	NE	3	b	1031.1	+2	39	-2	ENE	1	-	b	*	-	?	37				
	Rome.	1022.3	54	N	3	o	1023.3	*	52	+2	E	1	-	bc	*	3	61	50				
22	Sanguinaire.	*	56	E	2	o	*	*	59		E	3	-	c	3	2	59	54				
	Rome.	1022.7	52	N	2	o	1020.0	*	54	+2	E	2	-	o	*	-	63	50				
23	Rechefort	1024.3	37	ENE	3	b	1022.6	*	32	+1	ENE	3	-	o	*	-	46	30				
	Sanguinaire.	*	59	N	3	o	*	*	57	-2	E	2	-	o	4	-	61	52				
	Madrid	1019.9	50	ENE	1	b	1021.9	+2	43	+2	NNE	3	-	c	*	-	54	39				
	Rome.	1016.4	54	N	1	o	1015.4	*	50	-4	E	1	-	o	*	-	61	50				
24	Rome.	1014.7	52	N	1	b	1013.2	*	41	-9	E	1	-	b	*	-	61	41				
25	Sanguinaire.	*	57	SW	4	m	*	*	50	-4	E	3	-	m	4	-	61	46				
	Rome.	1010.1	50	N	1	e	1009.3	*	43	+2	E	1	-	o	*	-	57	39				
27	Lisbon	999.4	58	NE	2	b	1008.4	+1	56	+1	NNE	3	-	o	5	3	66	55				
28	Rome.	1014.3	36	N	3	b	1022.1	*	36	-3	E	3	-	b	*	-	43	34				
29	Rome	1027.4	32	N	2	b	1027.7	*	32	-4	E	1	-	o	*	-	43	30				



# REPORTS FOR NOVEMBER, 1915.

DATE.	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.						Sun- shine for Yester- day. Hours.
		BAROM. Milli- bars at M.S.L.	TEMP. ° F.	WIND		Weather.	BAROMETER.		TEMP.		WIND.		Dirac. of Upper Cloud.	Weather.	Sea 0-0.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours. ° F.	Direc.	Force 0-12.					Max. ° F.	Min. ° F.	Morning.	Afternoon.	Night.		
2	Nairn																43						
3	Deerness														2								
	Pembroke.															0.4							
4	Esthedaemuir.	1016.3										NE											
6	Brest	1016.2																					
7	Deerness	1011.8																					
	Haparanda.						1012.4		18	+2	SSE	1		e		?	21	10					
8	Castlebay.													op									
	Falmouth						1015.5											23.5					
	Dungeness	1016.9																					
	Wick													ber									
9	Deerness																					1.3	
	Blacksad Point											5											
	Roche's Point	1009.2	51	WSW									NW										
	Holyhead																						
	Yarmouth																	40					
	South Farnborough																	44				2.0	
10	Roche's Point												NW										
	Birr Castle																						
	Donaghadee	982.6																					
	Nairn														6								
	Nottingham						984.2																
	South Farnborough						989.6																
11	Glasgow																						
	Roche's Point								46	+2													
	Dover	995.3																					
	Nairn																		oprsq			b. bcl.	
	South Farnborough																						
12	Stornoway					bcpq																	
	Dover																	38					
	Bath						987.4																
	Yarmouth																	36					
13	Castlebay	993.7					1001.0												35				
	Valencia.																						
	Dungeness						981.0																
	Dover								41	-13													
	South Farnborough								37	-17													
	Brest	971.4													8								
14	Roche's Point																		op. c	op. cp			
	Wick					bcsq																	
	Leith	1002.4																					
15	Glasgow																		bez. bz	b			
	Spurn Head											5											
	South Farnborough																	25					
	Clackton-on-Sea		35																				
16	Castlebay	1013.6																					
	Glasgow																		ohs				
17	Pembroke.															0.3							
	Falmouth			ENE																			
	Dover						1024.0		32.	-3													
	Aberdeen																			be. c. o			
18	Deerness																44	38					
	Pembroke.																42	34					
19	Lerwick						1035.9																
	Wick					om																	
20	Deerness																	38				6.3	
21	Deerness																	42					
	Blacksad Point																48	38					
	Jersey																						
22	Nairn																			g. cd			
	Nice.			E																			
23	Deerness						1027.7																
	Valencia																					4.5	
	Jersey																	34					



## CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.						Sun- shine for Yester- day. Hours.
		Barom. Milli- bars at M.S.L.	TEMP. ° F.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
				Direc.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. ° F.	Change in 24 hours. ° F.	Direc.	Force 0-12.					Max. ° F.	Min. ° F.	Morning.	Afternoon.	Night.		
	South Farnborough.	.	.	.	.	.	1026.4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
25	Castleboy.	.	.	.	.	.	1028.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	Nairn	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	44	.	.	.	.	.	
26	Edinburgh.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	c. bc. c.	.	
	Sanguinaire.	.	.	.	.	.	.	.	50	0	.	.	.	.	.	.	.	.	.	.	.	.	
27	Wick	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	28	.	.	.	.	
	Tynemouth	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	27	.	.	.	.	
	Barmouth	.	.	.	.	b. gh. p.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	Skadesnaes	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
29	Silly	.	.	.	.	.	.	.	.	.	.	.	.	5	.	.	.	36	.	.	.	.	
	Portland	.	.	.	.	.	.	.	43	+4	.	.	.	.	.	.	.	.	.	.	.	.	
	Dungeness	.	.	.	.	.	.	.	41	+9	.	.	.	.	.	.	.	.	.	.	.	.	
	Dover	.	.	.	.	.	.	.	38	+8	.	.	.	.	.	.	.	.	.	.	.	.	
30	Portland	.	.	.	.	.	.	.	.	+6	.	.	.	.	.	.	.	43	.	.	.	.	
	Dungeness	.	.	.	.	.	.	.	.	+6	.	.	.	.	.	.	.	44	.	.	.	.	
	Dover	.	.	.	.	.	.	.	.	48	.	.	.	.	.	.	.	38	.	.	.	.	
	Wick	.	.	.	.	om	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	Spurn Head	.	.	.	.	.	986.7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	South Farnborough	.	46	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
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## LONDON OBSERVATIONS.

										Duration and Extreme Force in British Islands				
STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Date.	ADDITIONS.	Date.	CORRECTIONS.
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.				
				Max.	Min.									
%	%	Hr.	° F.	° F.	° F.	mm. &								
1 City			0.0								21. <u>Stornoway</u>		9. <u>Falkenstein</u>	
Hampstead						37					During night of 20th, Squalls S 8		Delete <u>Langholm</u>	
2 Richmond Park			0.0										<u>Blackhead Point</u>	
3 South Kensington			4.8										20th 10 p.m. - 9th 6 a.m. W 9	
4 Westminster				49										
Richmond Park			4.3											
5 Richmond Park			0.7										29. <u>Blackhead Point</u>	
6 Richmond Park			1.9										28th 2 p.m. - 29th 7 a.m. SSW 8	
7 Richmond Park			0.0										Ex SSW 9 @ 9 p.m., 28th.	
8 Richmond Park			6.0											
9 Greenwich						17								
10 Richmond Park			2.5											
11 Richmond Park			0.2											
12 Hampstead			5.1				6							
13 Richmond Park			4.3											
14 Richmond Park			0.0											
15 Richmond Park			0.0											
16 Camden Sq.			2.9											
17 City			0.0											