

METEOROLOGICAL OFFICE.

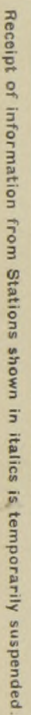
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DAILY WEATHER REPORTS.

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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.335.

Wednesday,  
1st December, 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 ...	987.0	38	E	8	org	991.0	+1	41	0	NE	2	NE	bcm	1	9	43	37	org	org	bc	Hours.
	Deerness ...	983.0	42	S	6	or	988.8	+	42	+2	-	0	-	o	4	8	43	40	rg	r.o.c	c.o	0.0
	Stornoway ...	976.8	41	SSW	4	or	987.4	+5	41	-1	NE	1	-	b	1	32	43	39	or	or	or.b	0.0
	Castlebay (Barra Isd.)	977.2	45	SW	4	r	984.3	+5	46	+4	ESE	4	-	o	4	6	47	41	r.o	or	r.o.p.o	0.0
	Glasgow ...	982.9	41	S	1	c	987.1	+2	36	-3	ENE	2	S	b	+	0.3	42	36	o.c.omp	omg.p.c	bc.bz	1.6
	Eskdalemuir ...	984.8	33	SW	3	om	987.5	0	36	+1	NW	1	SE	bc	+	14	39	34	bc.orh	omr.om	omr.bc	0.0
	Malin Head ...	978.9	40	S	4	bc	980.8	+1	42	+6	SE	2	-	omd	2	Trace	43	36	bcm.bc	bc	om	3.3
	Blacksod Point ...	977.5	44	SE	3	cgp	978.9	+3	41	-5	NNE	2	-	qfr	3	5	47	39	bcp	cp	bamp	+
	Valencia ...	977.0	43	S	4	r	978.9	+5	41	-8	ENE	1	NW	cp	5	11	50	41	qph	cp	or.c.cpr	1.2
	Roche's Point ...	983.2	47	SSW	4	c	978.3	+	45	+1	NNW	1	-	o	4	8	50	44	cgp	cgp	cp.r.o	+
	Birr Castle ...	981.0	42	S	2	c	978.8	+	42	+6	-	0	-	e	+	2	49	35	c	c	cp.c	2.7
	Donaghadee ...	981.8	40	SSW	3	bcm	982.4	+2	45	+10	SSE	4	S	amp	3	6	46	35	bamp	bcm	bm.cmp	+
	Liverpool (Bidston)	987.3	40	SSE	2	b	985.8	-1	38	+2	SE	3	E	bc	3	2	44	36	bc	or	bc.c	3.0
	Holyhead ...	984.8	49	SW	4	cp	982.5	-1	45	-1	S	5	-	bc	+	6	50	44	cp	cp	cp.bc	1.5
	Pembroke (St. Ann's)	986.5	49	SW	5	bq.p	978.9	-4	48	+1	S	5	S	cgp	6	17	51	44	bq.p	bq.p	omg.p	2.1
	Scilly (St. Mary's)	988.1	49	WSW	5	c	981.1	-3	49	+1	WSW	7	SW	cgp	6	6	51	45	cp	c	cq.p	1.9
	Falmouth ...	989.8	46	SW	5	bq.p	983.2	-2	48	+2	SSW	6	-	r	+	10	51	43	bc.sph	c.bcp	q.p.h	2.0
	Jersey (St. Aubin)	994.7	49	SW	3	c	992.3	+	49	+1	SSW	5	S	c	4	0.3	52	45	b.bc	cp.c	bc	4.6
	Portland Bill ...	990.0	46	SW	4	cp	987.2	-3	48	-1	SSW	6	-	qrl	6	8	50	47	cgp	cp	cq.p	+
	Dungeness ...	994.5	48	SW	6	bq.p	992.5	-2	47	0	SSW	5	?	cgp	6	2	49	44	org	org	bq.p.bc	+
Dover ...	995.2	48	SW	6	b	993.9	-2	46	0	SSW	5	S	r	6	7	48	43	op.r.s.c	c.bc.b.	b.opr	1.3	
Wick ...	982.3	44	S	3	m	988.2	+2	43	-1	SSE	1	-	bc	4	3	44	41	omr.c	c.bcm	dp.bcm	+	
Nairn ...	981.1	41	-	0	og	987.9	+	32	-10	-	0	-	bce	1	4	42	31	p.r.o	d.cq	bcp.c	0.0	
Aberdeen ...	984.4	42	S	3	r	989.1	+2	36	-7	W	1	-	cm	3	1	44	36	or.c.bc	bc.or	or.c	3.0	
Leith ...	983.0	40	S	1	c	983.5	+1	27	-3	SE	1	E	c	1	1	43	37	c.bc	c.bc.or	c.bc.or	+	
Tynemouth ...	986.3	40	SE	2	bcm	987.9	+1	36	-3	S	2	-	q	3	-	42	35	bcm	bcm	of	+	
Spurn Head ...	989.5	42	SSW	4	c	990.4	-1	38	-1	S	4	-	bcm	4	-	44	34	bc	bc	bcm	5.8	
Yarmouth ...	993.5	44	SSW	4	b	992.7	-2	42	-1	SSW	3	-	cm	3	0.4	46	40	bc	b	bcp.cm	3.5	
Clacton-on-Sea ...	993.9	44	SSW	4	r	992.5	-1	44	+2	S	4	SW	c	3	6	44	41	bq.p.c	cq.or	or.c	1.5	
Nottingham ...	989.6	43	SW	2	b	989.0	+	41	+3	SSE	2	S	c	+	1	46	35	b	bc	b	4.6	
Bath ...	990.5	45	S	+	b	987.0	0	44	+6	S	2	-	r	+	6	50	35	c.bc.b	c.bc.b.	b.bc.or	2.5	
Sth Farnborough ...	992.8	43	SSE	3	r	989.6	-3	44	+2	SSE	4	-	c	+	9	46	40	q.bcp	p	p	1.1	
London (Kew Obsy.)	994.0	44	SSW	3	omr	991.2	-3	43	+1	SSE	3	S	bcm	+	5	46	38	omr.c	bc.s	omr.bc	1.5	
NORTHERN EUROPE.	Spitsbergen ...	1024.7	+31	SSE	1	b	1029.6	+3	-31	-5	S	2	+	b	+	+	-26	-36	GALES.			
	Vardö ...	1017.5	18	NE	1	o	1017.2	+2	10	-15	SW	6	-	o	4	+	25	9	Duration and Extreme Force in British Islands.			
	Bodö ...	1017.1	12	E	4	b	1011.3	-8	14	+2	E	5	-	b	2	-	14	10				
	Christiansund ...						997.2	0	34	+4	-	0	-	o	5	3	37	28				
	Skudesnaes ...	993.0	34	E	8	3	994.9	0	39	+2	E	4	-	o	4	4	37	32				
	Færder (Xiania Fjord)	998.0	34	E	6	5	1000.0	0	32	+2	NNE	4	-	o	2	?	34	30				
	The Scaw (Skagen)	997.5	34	SSE	5	5	999.5	+2	36	+2	WSW	2	-	f	2	12	39	34				
	Blaavands Huk ...	996.3	39	SSW	2	m	998.1	0	37	+7	S	2	-	o	3	7	39	28				
	Haparanda ...																					
	Hernösand ...																					
FRANCE, &c.	Stockholm ...																					
	Wisby ...																					
	Karlstad ...																					
	Petrograd (5 a.m. G.M.T.)																					
	The Helder ...	996.6	41	SSW	3	r	996.0	-2	39	-4	S	2	-	o	2	7	46	37				
	C. Gris Nez ...	995.9	45	S	6	bc	993.2	-3	43	-3	S	6	+	o	5	Trace	52	43				
	La Hève ...	993.6	45	SW	5	bc	993.3	+	45	-1	SW	6	+	o	5	4	50	41				
	Ushant ...																					
	Brest (St. Mathieu)	995.0	50	SW	5	b	992.3	0	52	+4	SW	6	+	c	6	3	52	48				
	Rochefort (Ile d'Aix)	1002.9	52	SW	6	o	1003.8	+2	51	+3	SW	6	+	o	+	10	54	48				
Biarritz ...	1005.6	55	ESE	2	bc	1007.3	+1	54	+2	-	0	+	bc	5	-	61	52					
Paris ...	1001.5	48	S	4	c	1000.2	+4	46	+3	SSW	4	-	o	+	3	54	43					
Belfort ...	1009.3	41	-	0	r	1008.0	+	41	+9	-	0	+	o	+	7	43	39					
SOUTHERN EUROPE.	Lyons ...																					
	Nice ...	1013.9	45	-	0	r	1013.9	0	48	+8	-	0	+	f	1	17	48	40				
	Perpignan ...	1007.7	52	-	0	o	1011.0	+5	45	-5	-	0	SW	bc	+	-	57	45				
	Sanguinaire ...	+	62	E	2	o	+	+	59	+13	E	3	+	o	3	-	64	46				
	Corunna (7 a.m.)	1003.7	57	SW	5	o	1009.0	+2	57	+5	SW	5	-	o	7	9	59	52				
	Madrid (8 a.m.)	1009.5	52	WSW	2	bc	1008.3	+4	48	-4	SW	1	-	o	+	Trace	55	46				
	Lisbon (9 a.m.)	1013.3	59	SW	2	b	1016.2	+1	59	+4	SW	3	-	c	+	Trace	61	55				
	Gibraltar ...	1016.2	58	W	4	b	1019.3	+	56	-6	NW	4	+	b	3	5	67	55				
	Rome ...																					
Malta (8 a.m.)	+	+	+	+	+	1015.3	0	63	+7	WSW	1	-	c	0	-	64	56					
Azores (Horta, 8 a.m.)	1009.9	+	SW	5	o	997.3	-3	60	-3	SSW	5	+	o	5	27	64	57					
Madeira (Funchal)																						

## GALES.

Duration and Extreme Force  
in British Islands.

Lerwick  
30th Jan-7 p.m. SE 8.

South Farnborough.

Pilot Balloon Ascent at 7.30 a.m.

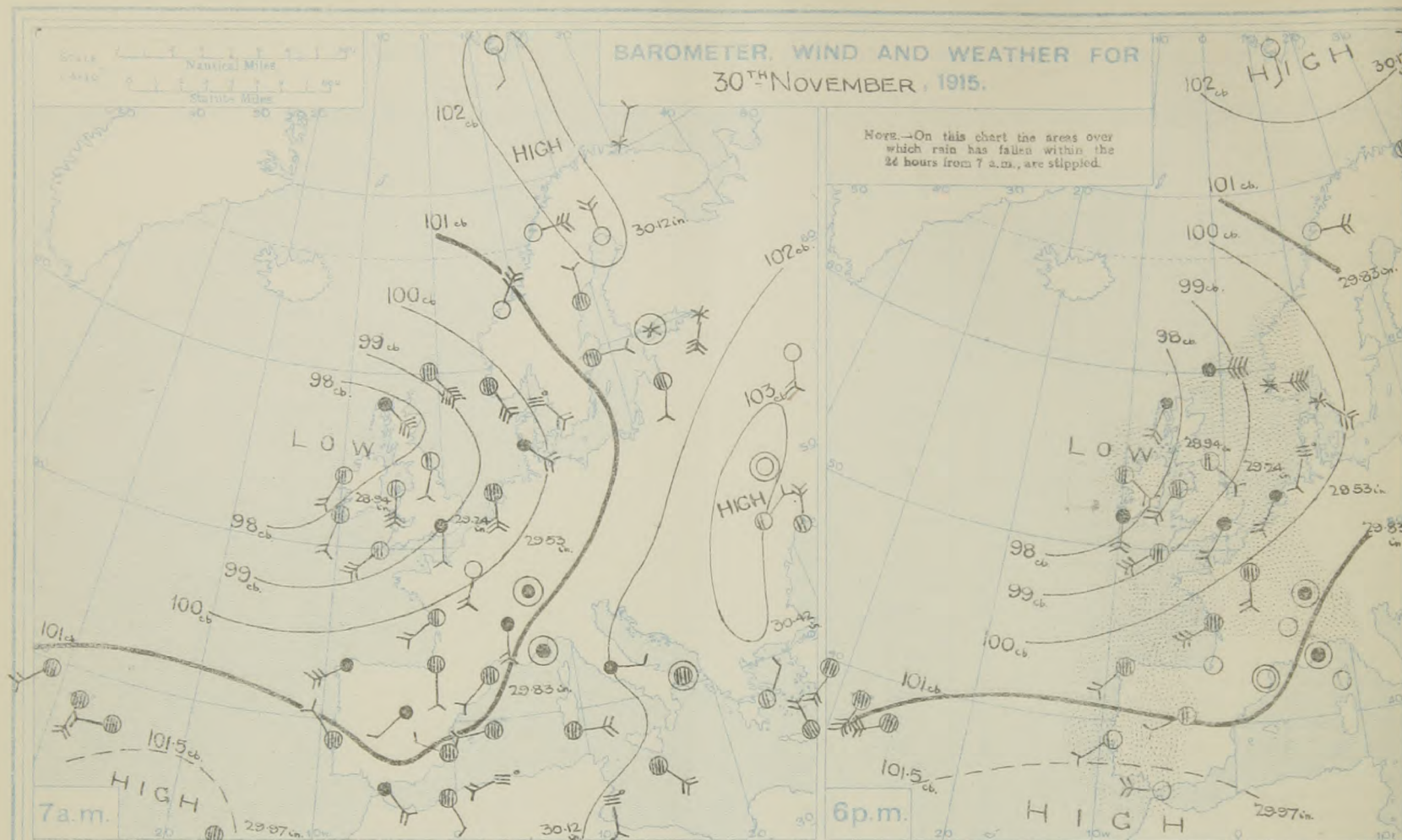
300 metres S 27 miles per hour.

\* 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 WEDNESDAY TO NOON THURSDAY.**

**FORECAST DISTRICTS.**



**STORM WARNINGS.**

The Coast 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

Calms and light variable airs to freshening Easterly breezes; fair to cloudy, some sleet or snow; colder.

Southerly winds, freshening and backing Easterly, fresh or strong at times; changeable, some rain, local sleet or snow; colder.

Squally Southerly and South-Westerly winds, strong to fresh or high at times, veering Westerly and moderating later; dull, rainy, then fairer; temperature mild to moderate.

Same as Nos. 0 and 1.

Same as No. 2.

Same as Nos. 3 to 5.

Wind between North-East and North-West, freshening somewhat; changeable, some rain or sleet; colder.

Squally South-Westerly to Westerly winds, strong to gale; high sea and swell; unsettled, some rain; moderate temperature.

**FURTHER OUTLOOK.**

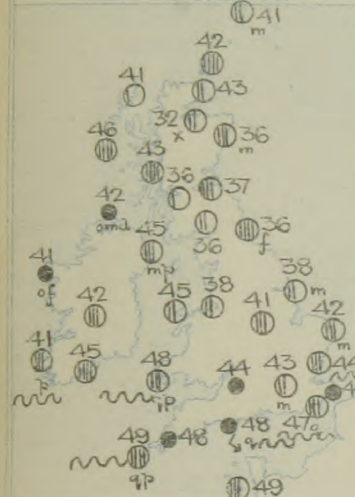


# SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 1<sup>ST</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

The depression on the Bristol Channel will maintain an unsettled type of conditions over the country generally.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.



### EXPLANATION.

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

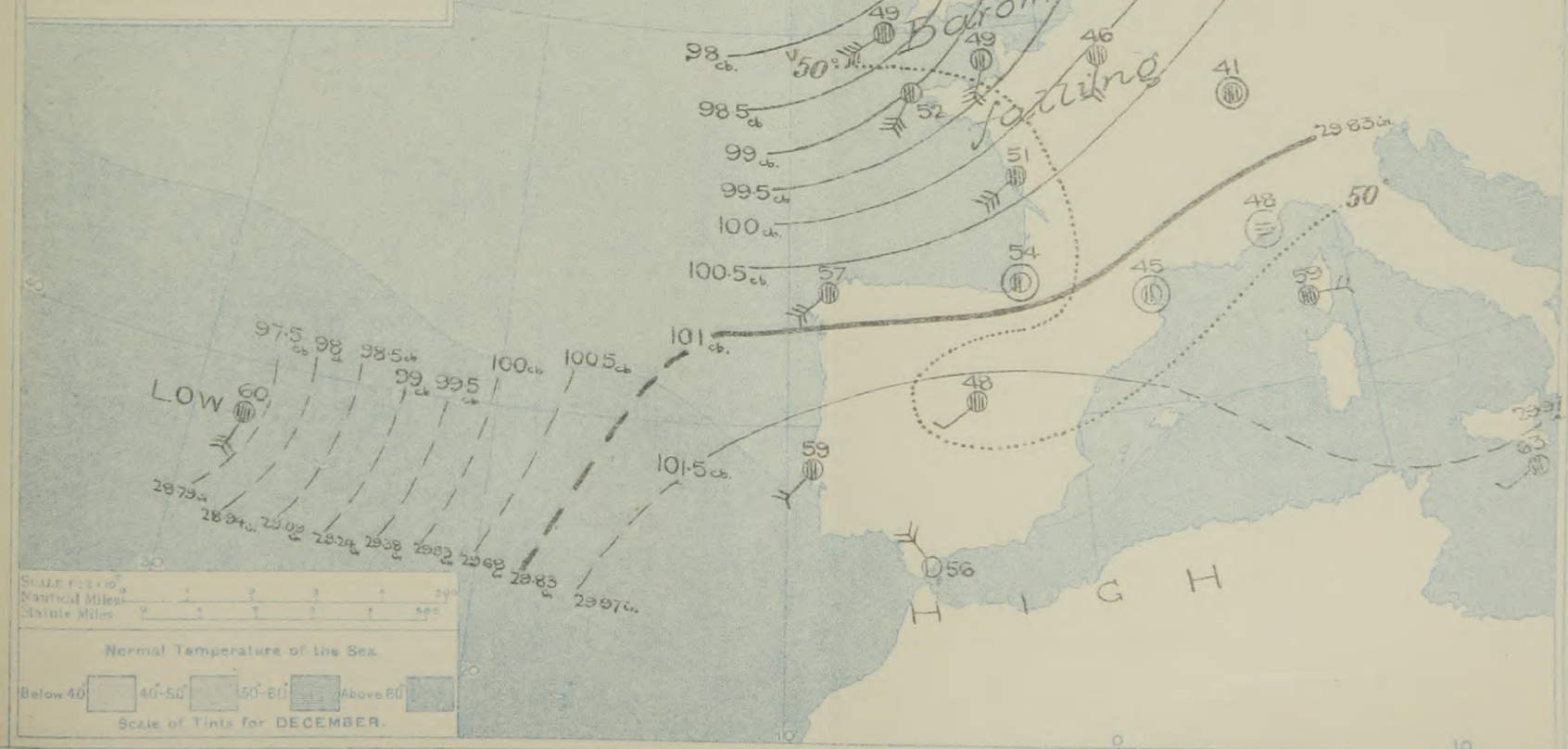
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm.

**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 wavy. High wavy.





## DAILY WEATHER REPORT.

Wednesday, 1st December, 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.								
																	° F.			
	Retrograde Lyons Lisbon Rome.	1008.4 1009.9 1004.4 1024.4	34 42 61 39	W S S 1	3 8 2 0	s b s o o b	1011.8 1006.0 1010.6 1020.0	+2 -4 +2 -1	36 48 55 41	+12 +8 -8 .	SW S NW E	5 3 2 1	- - - -	S r o r	4 1 10 1	36 52 64 43	14 40 54 39			
30th 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.	no	bc	Hr.		mm. §	° F.	° F.			Hr.
Scotland.							Tunbridge Wells ...						
{ Oban ...	7	45	36	no	bc	0.2	Margate ...	9	48	39	cp	cp	0.1
{ Banff ...	0	46	38	bc	bc	4.2	Ramsgate ...	8	47	41	p	p.c	1.2
{ Carnoustie ...							Hastings ...	7	49	44	oc.bc	oc.c	1.6
{ St. Andrews ...				*	*		Bexhill-on-Sea ...						
	5	42	33	bc	c.bc	1.0	Eastbourne ...	6	49	44	bc	bc	1.3
Eng. N.E.	5	45	37	c.bc	bc o	4.8	Seaford ...	7	49	43	o	o.c	1.3
{ Harrogate ...							Brighton ...	17	49	44	oc.c	c.bc	0.5
{ Skegness ...							Worthing ...	24	49	42	c	c.bc	0.7
	-	42	35	c	bc.o	2.2	Littlehampton ...	7	48	43	op	bc.p	1.3
Eng. N.W.	3	43	35	bc.s	oc.o	2.0	Bognor ...						
{ Blackpool ...	3	42	35	c.bc	oc.bc	2.6	Southsea ...	10	51	43	p	p	0.0
{ Southport ...							Bournemouth ...	9	49	41	oc.c	oc	1.6
	1	47	33	c.bc	bc.c.bc	2.9							
Midlands.	2	46	38	bc	bc.bc	2.9							
{ Buxton ...	1	48	37	bc	op.c.bc	2.4							
{ Leamington Spa ...													
{ Malvern ...													
{ Ross-on-Wye ...													
	2	47	32	bc.c.o	op	1.4	Weymouth...	7	52	43	bc.p	r.c	1.3
Wales.	2	46	38	bc	bc.p.o	2.8	Torquay ...	11	49	42	op	cp	0.2
{ Rhyl ...							Paignton ...	10	49	37	op	op	0.0
{ Colwyn Bay ...							Falmouth ...	5	51	42	bc.op.h	c.bc.p	2.0
{ Llandudno ...	3	48	38	bc.o.c	c.o	4.0	Penzance ...	6	51	43	cp.r	bc.p.r	2.1
{ Aberystwyth ...	11	49	39	bc.op	bc.or	1.6	Newquay ...	6	50	40	b.bc	r.b.bc	1.4
{ Tenby ...							Ilfracombe ...	7	49	41	oc.p	cp.c	0.7
							Weston-super-Mare ...	-	48	38	bc.bc	bc.c	1.6
	2	47	39	bc	bc	3.3							
England, E.	2	45	40	bc	bc	1.9							
{ Cromer ...													
{ Lowestoft ...													
{ Felixstowe ...	2	45	39	bc.c	bc.cp	1.5							
{ Walton-on-Naze ...	2	47	38	oc.p	bc.c.oc	1.8							
{ Southend-on-Sea ...	3												

## 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.) ...	87	90	1.5	48	40	31	8	o.c	c.b.c.o	op
City (Bunhill Row) ...	x	x	1.3	x	x	x	x	x	x	x
Westminster (St. James's Pk.)	85	86	1.6	49	34	34	4	ov	o.c.m	od
Camden Sq. (Brit. Rainfall)	85	89	1.1	48	41	36	4	b.m.c	b.c.ov	x
Hampstead (Reservoir) ...	x	91	1.9	47	40	29	4	c.op	ov	o
Richmond Park ...	x	x	1.9	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.)	85	87	1.6	Total. 237 Joules		Average Rate. 8.1 Milliwatts.		Max. Rate. 22 Milliwatts.		

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

... 1st Dec. 1915.	Sunrise	Noon	Sunset
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.45	11.42	3.45
Greenwich ...	7.46	11.43	3.46
Wick ...	8.28	12.1	3.25
Valencia ...	8.28	12.30	4.32

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.	1	48	37	31	c. bc	c. b	bc.	*
Darwen to 9 p.m.	2	44	34	30	ow	ow. c	bc. u	0.1
Manchester "	1	45	36	*	od. x. bc	bc. c	c. bc. b	3.0
Birmingham "					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 "	10	50	40	32	bc p r	q p r	bc p	0.5
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	2	49	43	33	od. c. bc	em. c b	c. ow.	*

## NOTES ON YESTERDAY'S WEATHER.

Temperature exceeded 50° at several southern stations. Rain fell generally, heavy locally, 32 mm. at Stornoway. As a rule there was but little sunshine, none in places.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 336.

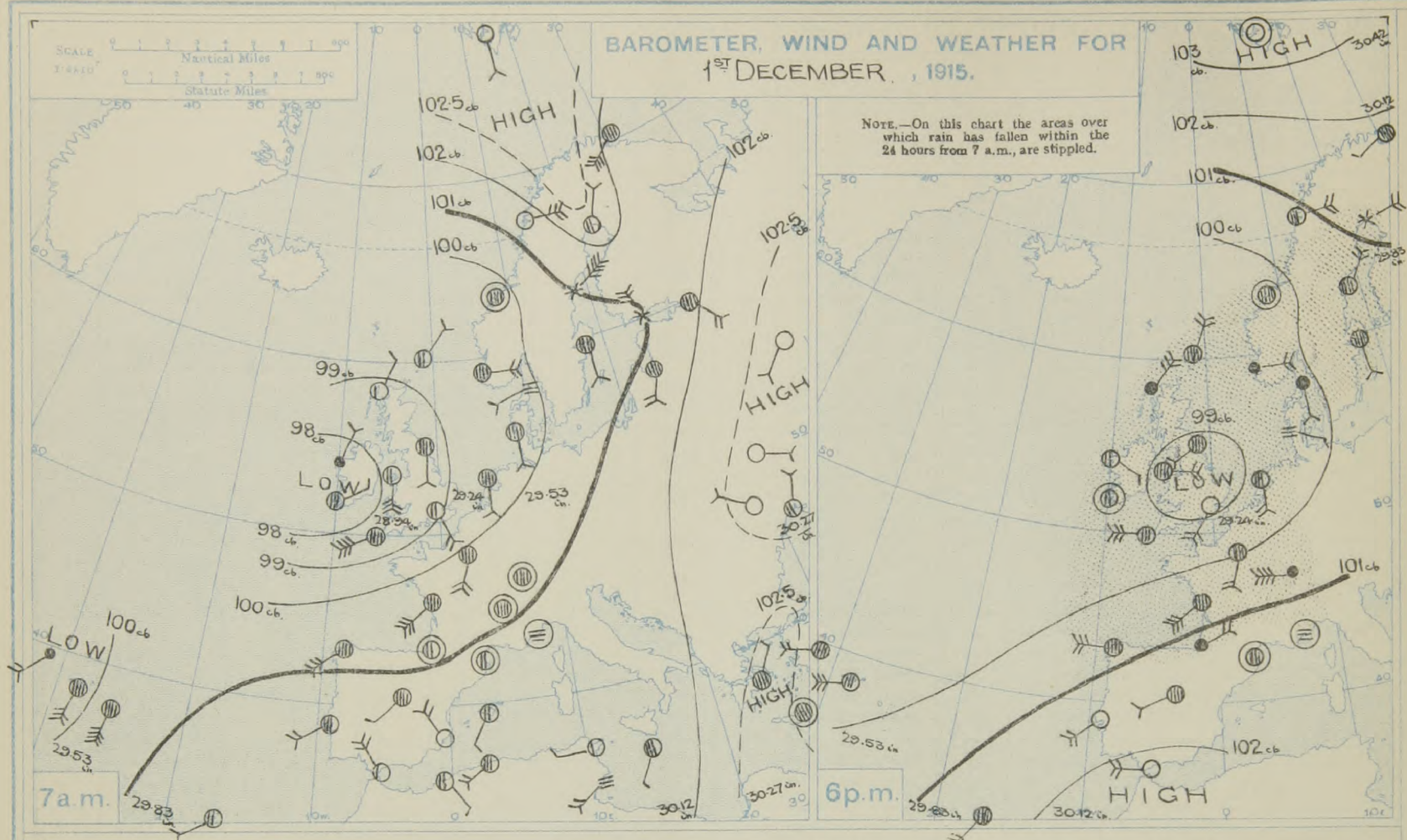
Thursday,  
2nd December, 1915.

	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	994.7	43	NNE	4	ogm	1001.8	+3	40	-1	NNE	6	-	og	5	6	44	38	bc. omr	om	ogp	Hours.
	Deerness	993.9	41	N	2	op	1001.3	+	41	-1	N	5	-	op	3	5	44	40	o	op	op	0.0
	Stornoway	994.4	45	NE	5	ogp	1005.3	+6	40	-1	NNE	5	-	og	5	5	46	35	bc	bc. c. ogp	c. ogp	3.4
	Castlebay (Barra Isd.)	992.4	46	NE	3	b	1004.4	+6	42	-4	N	4	-	b	4	1	47	41	o c	c. o. b	b. o. b	0.6
	Glasgow	991.6	40	ENE	2	c	1002.2	+4	35	-1	W	1	NW	c	Trace	44	34	b. bc. c	bc. c	b. bc. bc.	2.4	
	Eskdalemuir	990.8	37	NNE	4	c	1001.8	+6	35	-1	-	0	W	bcx	1	39	34	bc. c. o	omg	or. c. bc	0.4	
	Malin Head	991.2	45	ENE	4	om	1001.9	+4	44	+2	NE	2	NE	em	3	1	49	40	bc. m	omr	bc. m	1.2
	Blacksod Point	991.3	44	ESE	1	bc	1002.2	+4	40	-1	ESE	2	SE	bc	2	0.3	47	39	bc	bc	bc	1.0
	Valencia	991.8	45	-	0	bc	1000.2	+1	37	-4	NE	2	-	b	3	1	50	36	ap	bc. p	c. bc. b	4.0
	Roche's Point	992.1	46	NW	2	b	1002.1	+	37	-8	N	1	-	b	3	0.2	50	35	c. bc. g	bc. b	b. m	0.0
	Birr Castle	993.7	44	W	1	o	1002.3	+	39	-3	NW	1	-	f	8	45	39	or	or. o	or. f	0.0	
	Donaghadee	989.9	45	ENE	4	ogm	1001.5	+5	44	-1	N	3	-	bc. m	2	2	47	43	og. mp	c. gm.	cm. bc. m	0.0
	Liverpool (Bidston)	987.1	41	E	1	m	1001.8	+6	41	+3	WNW	1	-	b	2	3	44	38	og	og	o. bc. b	0.0
	Holyhead	987.9	45	E	4	omg	1001.1	+4	44	-1	SE	2	-	om	0	1	46	43	cp. sp.	o. c. om	om	0.1
	Pembroke (St. Ann's)	989.5	43	NW	5	og	1002.2	+4	44	-4	-	0	-	b	4	5	49	44	c. ogp.	c. ogp.	cp	0.8
	Scilly (St. Mary's)	993.8	51	W	6	og	1002.5	+3	50	+1	W	2	-	o	4	3	52	48	c. ogp. bc	bc. c	bc. c. ogp	2.4
	Falmouth	994.2	49	WSW	6	bc. ogp	1003.6	+3	45	-3	W	2	-	o	2	6	52	45	rg. og	c. ogp. og	bc. ogp. o	2.1
	Jersey (St. Aubin)	995.5	51	WSW	6	ogp	1005.1	+	50	+1	WSW	4	-	o	4	11	53	48	c. ogp.	c. ogp.	c. ogp. b	0.3
	Portland Bill	990.8	51	WSW	7	b	1002.3	+6	48	0	W	4	W	bc. p	4	4	53	47	c. ogp.	c. ogp.	b. ogp.	0.0
	Dungeness	990.1	50	SSW	7	ogp	1001.8	+5	43	-4	W	3	SW	c	3	8	51	42	bc. ogp.	bc. ogp.	og. l. c	0.0
	Dover	991.1	48	SW	6	c	1002.5	+6	44	-2	WNW	3	NW	bc	2	9	50	41	c. bc. o	og. p. r. p.	bc. b. bc	0.6
NORTHERN EUROPE.	Wick	993.7	44	WNW	2	bc	1001.2	+4	43	0	N	4	-	c	4	1	45	33	om	bc. m	omg. cm	0.0
	Nairn	993.7	37	-	0	om	1002.4	+	41	+9	W	3	-	og	2	2	41	31	bc. m	bc. fe	omg	1.0
	Aberdeen	992.7	40	WNW	2	em	1000.1	+3	39	+3	WNW	2	NW	bc	2	1	41	35	m. cm	om	bc. m	0.0
	Leith	991.8	42	E	1	o	1001.7	+4	40	+3	W	1	W	c	1	-	42	37	og. o	og. oe	og. oe	0.0
	Tynemouth	988.5	45	SW	2	omg	999.7	+5	42	+6	WNW	2	N	bc. m	3	1	45	36	bc. m	omg	bc. m	0.0
	Spurn Head	986.1	42	SSE	3	o	997.1	+5	40	+2	WNW	5	-	bc. g	4	2	43	37	c. ogp.	c. om	o. cm	0.1
	Yarmouth	988.0	45	SSW	5	o	998.9	+8	43	+1	NW	3	NW	om	3	2	47	42	om. or	or. bc. p	od. bc. m	1.7
	Clacton-on-Sea	988.3	44	S	5	c	1000.4	+5	42	0	W	3	NW	o	3	10	46	43	c. or. c	ot. gh	c. bc. o	1.4
	Nottingham	985.5	44	SE	2	o	1000.5	+	40	-1	WSW	1	W	c	1	47	39	ep. o	or	omd	0.1	
	Bath	988.4	46	SW	1	o	1002.5	+	43	-1	W	1	NW	o	6	52	41	r. o. c. bc	c. or	o. cp	0.8	
	Sth Farnborough	988.6	46	WSW	3	b	1002.1	+6	39	-5	WSW	1	W	bc	15	43	38	rg. h	c. bc	bc. p. c. bc	0.1	
	London (Kew Obsy.)	988.7	47	SW	4	b	1002.2	+7	41	-2	WSW	2	W	bc. m	13	48	44	bc. m. cm. omg	o. c. bc. b	b. bc. ogp. bc. m	0.0	
FRANCE, &c.	Spitsbergen	1033.3	-19	-	0	b	1036.3	+2	-19	+12	E	2	-	b	1	-	-11	-33	GALES.			
	Vardö	1019.8	9	WSW	1	o	1019.8	0	14	+4	SW	2	-	o	2	14	9	Duration and Extreme Force				
	Bodö	1007.5	19	E	4	c	1006.3	-1	16	+2	E	2	-	b	2	18	12	in British Islands.				
	Christiansund	997.7	37	-	0	o	1001.9	+1	32	-2	NE	4	-	o	5	1	37	32	Jersey			
	Skudesnaes	995.5	37	E	4	r	999.4	0	37	-2	-	0	-	o	3	13	39	36	1st Between g.p.m. & Mid. 3gulls WSW 8			
	Færder (X'ania Fjord)	1000.0	32	NE	3	s	998.7	+1	32	0	N	5	-	o	2	Trace	32	30	Dover			
	The Scaw (Skagen)	998.0	39	S	2	r	997.5	+1	37	+1	E	3	-	o	2	3	39	36	1st Noon - 2p.m. SSW 8			
	Blaavands Huk	995.9	37	SE	1	f	994.4	0	36	-1	SE	1	-	r	2	1	39	34				
	Haparanda	1013.5	5	E	4	s	1009.3	0	1	+20	N	2	-	bc	1	9	-19					
	Hernösand	1006.7	18	NE	4	o	1006.7	0	16	-3	N	4	-	o	5	19	12					
SOUTHERN EUROPE.	Stockholm	1003.3	36	S	2	o	997.7	-2	32	-2	NE	2	-	r	5	36	32					
	Wisby	1004.6	57	SSW	2	f	999.5	0	39	+2	SW	2	-	o	2	4	39	36				
	Karlstad	1002.4	28	NE	2	o	999.7	+4	30	-6	N	2	-	o	1	36	25					
	Petrograd (5 a.m. G.M.T.)																					
	The Helder	992.8	45	S	3	c	994.4	+3	45	+6	WSW	4	-	o	3	44	46	39				
	C. Gris Nez	991.3	48	SSW	7	r	1000.8	+6	46	+3	W	5	-	bc	5	10	50	43				
	La Hève	998.0	43	SW	6	o	1004.8	+	48	+3	WSW	5	-	o	5	4	48	43				
	Ushant																					
	Brest (St. Mathieu)	1000.7	52	W	6	b	1006.9	+2	52	0	WSW	4	-	r	5	1	54	50				
	Rochefort (Ile d'Aix)	1007.4	52	SW	6	o	1010.6	0	52	+1	WSW	5	-	r	8	54	50					
SOUTHERN EUROPE.	Biarritz	1011.5	54	ENE	3	r	1013.6	+1	57	+3	SE	2	-	c	7	19	61	54				
	Paris	1000.8	45	SSW	3	o	1006.9	+2	46	0	SSW	3	-	o	7	54	45					
	Belfort	1005.5	52	W	8	r	1012.0	+	46	+5	W	7	-	o	5	54	41					
	Lyons	1009.5	52	S	3	o	1015.4	+	50	+2	-	0	-	r	5	59	49					
	Nice	1014.9	49	-	0	f	1015.8	+1	45	-3	-	0	-	bc	2	2	50	45				
	Perpignan	1011.6	52	-	0	o	1017.1	+2	46	+1	SW	1	-	m	1	59	45					
	Sanguinaire		60	S	3	m			58	-1	E	4	-	m	8	63	52					
	Corunna (7 a.m.)	?	61	?	5	o	1011.8	0	61	+4	SW	8	-	o	6	18	61	57				
	Madrid (8 a.m.)	1018.0	54	WSW	2	o	1022.4	+2	46	-2	-	0	SW	o	5	54	46					
	Lisbon (9 a.m.)	1017.7	61	SW	4	b	1017.9	0	59	0	SE	2	-	o	5	63	55					
SOUTHERN EUROPE.	Gibraltar	1020.6	59	W	4	b	1020.3	+	53	-3	NW	2	-	b	3	67	52					
	Rome																					
	Malta (8 a.m.)						1020.6	+3	61	-2	NW	2	-	o	1	70	59					
SOUTHERN EUROPE.	Azores (Horta, 8 a.m.)	995.3		WSW	6	c	999.4	+4	57	-3	-	0	-	b	3	9	66	57				
	Madeira (Funchal)	1016.7	64	SW	4	o	1016.4	0	64	+3	-	?	-	r	4	68	61					

## South Farnborough

Pilot Balloon Ascent at about 7 a.m.





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 Coast.  
North Coast.

Signals hoisted this morning.

South Coast.  
North Coast.

No Warnings Issued.

Western Channel and Bay 11

FURTHER OUTLOOK.

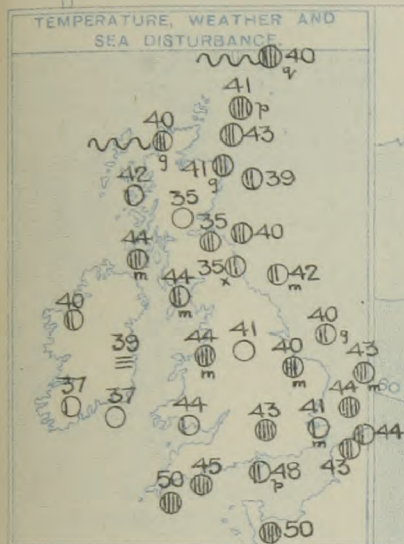
- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | Squally fresh Northerly wind; cloudy, some showers; moderate temperature.   |
|    | b |   |   |
| 1  |   | } | Variable Northerly breezes; fair to fine; local showers; moderate temperature.  |
| 2  | a |   |   |
|    | b |   |   |
| 3  |   | } | Variable breezes, backing South-Westerly or Southerly later and freshening; fine to fair, then less settled, some rain; mild. |
| 4  | a |   |   |
|    | b |   |   |
| 5  |   | } | Same as Nos. 1 and 2.   |
| 6  | a |   |   |
|    | b |   |   |
| 7  | a | } | Same as Nos. 3 to 5.  |
|    | b |   |   |
| 8  | a | } | Variable Northerly breezes, veering Easterly later; fair to fine, then less settled, some rain; moderate temperature.         |
|    | b |   |   |
| 9  | a | } | Squally South-Westerly winds, strong to gale; high sea and swell; unsettled, some rain, mist or fog; mild.                    |
|    | b |   |   |
| 10 | a | } |   |
|    | b |   |   |
| 11 |   | } |   |
|    |   |   |   |



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

## GENERAL INFERENCE.

Quiet, fairer conditions are indicated for a time, but a depression appears to be approaching the Bay region, and it is likely to affect our southern districts later.



## 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.

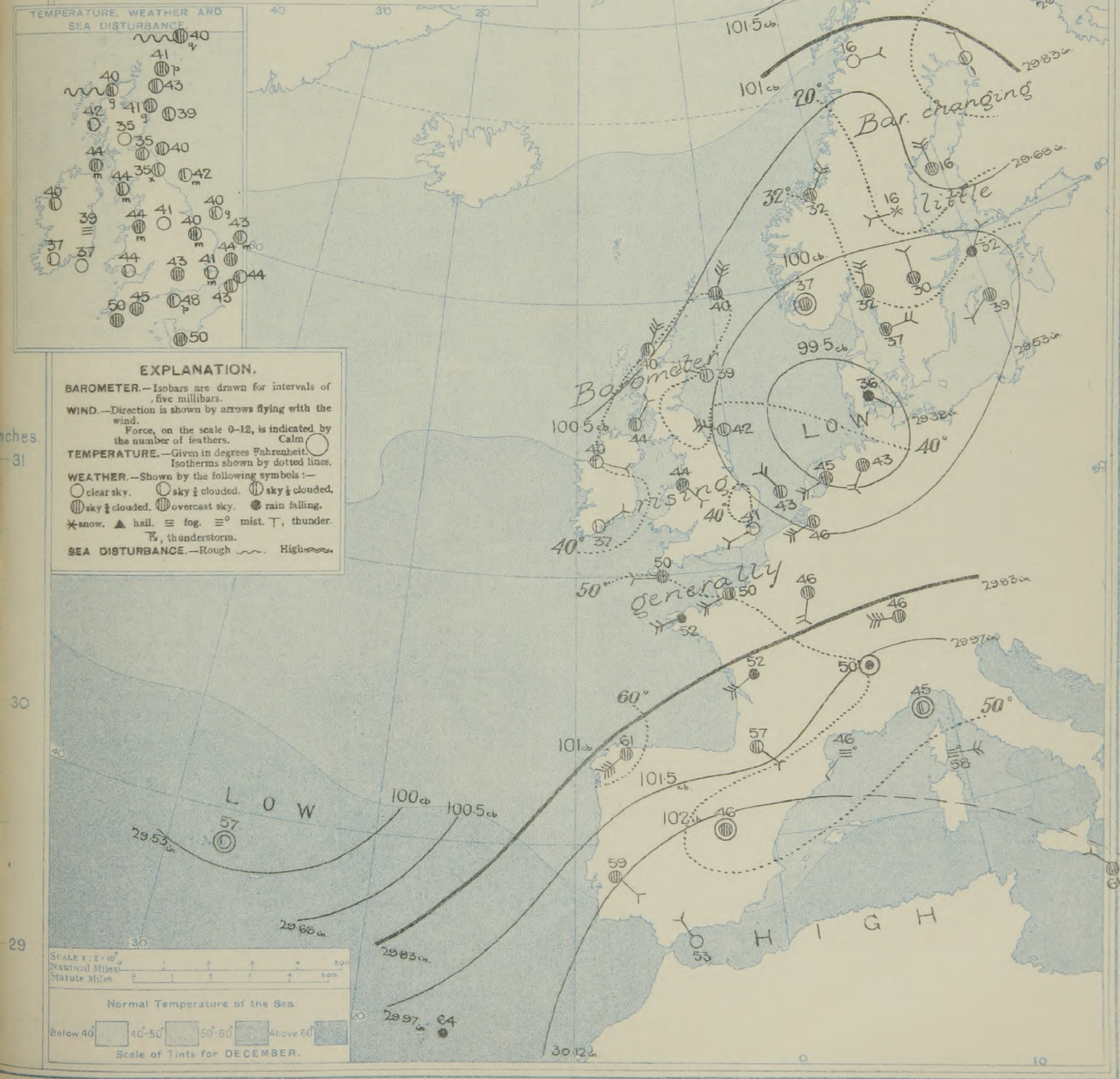
**TEMPERATURE.**—Given in degrees Fahrenheit.

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.  
 B, thunderstorm.

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





# DAILY WEATHER REPORT.

Thursday, 2nd December, 1915.

## REPORTS FOR YESTERDAY.

1st December, 1915.

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.	
			Dir.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.							
		° F.																
Hapstons	1026.0	-17	N	2	b	1024.7	?	-19	-11	NNE	2	-	bc	4	-	-8	-20	
Hernand	1018.7	16	N	4	S	1010.0	-5	19	+5	NE	8	-	3	4	-	14	2	
Stockholm	1010.3	34	SW	4	S	1001.2	-2	34	+9	S	2	-	m	4	-	24	34	
Wist	1008.0	36	SW	2	S	1004.2	0	37	+12	SW	2	-	m	3	-	24	37	
Harstad	1005.6	30	NE	4	S	1001.0	-1	36	+11	SW	0	-	m	3	-	24	36	
Retrograd	1017.9	21	SW	3	S	1019.8	+1	19	-17	IR	0	-	0	0	-	36	85	
Lyons	1008.4	51	SW	2	S	1003.5	0	51	+2	SW	2	-	bc	2	-	1	1	
Funchal	1017.5	66	NW	2	S	1018.7	0	66	+	SW	2	-	bc	2	-	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.	
		° F.	° F.						° F.	° F.			
Scotland.													
Oban ...	7	46	41	bc	b	2.1	Tunbridge Wells ...	...	...	...	...	...	...
Banff ...	-	37	29	bc	bc m	1.2	Margate ...	9	51	42	o	op	1.1
Carnoustie ...	...	...	...	...	...	...	Ramsgate ...	3	49	43	p.c	r	0.9
St. Andrews ...	2	44	32	*	*	0.0	Hastings ...	8	50	44	oc	oc bc	0.1
England.							Bexhill-on-Sea ...	...	...	...	...	...	...
Harrogate ...	4	41	31	of. m	omr	0.0	Eastbourne ...	8	51	44	op q	op q	0.0
Skegness ...	3	44	39	og r	h.g o	0.1	Seaford ...	7	51	44	r	r	0.0
England.							Brighton ...	9	50	49	h.c. bc	h.c. bc	0.0
Morecambe ...	1	42	39	bc. o	od	1.0	Worthing ...	18	50	45	th. q	th. q	0.0
Blackpool ...	0.3	45	36	h.g. o	o. op	0.0	Littlehampton ...	1	50	43	p	p bc	0.7
Southport ...	1	44	35	bc. o	odr	0.0	Bognor ...	...	...	...	...	...	...
England.							Southsea ...	15	51	43	p	p	0.0
Buxton ...	...	...	...	...	...	...	Bournemouth ...	19	51	41	oc	oc. b	0.4
Leamington Spa ...	3	47	35	cp r	cp r	0.2	Weymouth ...	13	51	45	oc. c	c. bc. b	0.2
Malvern ...	3	47	36	bc. c	c. o	0.3	Torquay ...	15	50	42	oc. c	c. bc. b	1.3
Ross-on-Wye ...	3	48	40	c. bc	od	0.7	Paignton ...	19	51	40	oc. op.	op.	1.6
Wales.							Falmouth ...	12	52	43	oc. op.	oc. op.	3.0
Rhyl ...	1	45	37	bc	bc. b	0.0	Penzance ...	7	52	45	oc. op.	oc. op.	1.6
Colwyn Bay ...	2	44	39	bc	bc. o	0.1	Newquay ...	?	51	42	oc. op.	oc. op.	0.3
Llandudno ...	...	...	...	...	...	...	Ilfracombe ...	10	50	42	oc. op.	oc. op.	0.1
Aberystwyth ...	2	48	44	h.c. c	o. oc	0.0	Weston-super-Mare ...	6	50	41	oc. op.	oc. op.	0.5
Tenby ...	14	50	44	bc. oc	r	0.4							
England.													
Cromer ...	...	...	...	...	...	...							
Lowestoft ...	2	47	39	d. c. c	op	1.7							
Felixstowe ...	10	46	41	bc. p	oc. bc	1.0							
Walton-on-Naze ...	9	46	41	bc. c. oc	oc. bc	1.1							
Southend-on-Sea ...	15	47	41	bc. op	oc. bc	1.4							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall. mm. §	WEATHER.		
	3 p.m. Yester- day.	9 a.m. To- day.		In Screen.	Min. on Grass.	Min. on Grass.		Fore- noon.	After- noon.	Night.
	%	%		Max.	Min.	Min. on Grass.				
Greenwich (Royal Obs.) ...	90	90	0.0	48	40	34	9	o. or	o. c	c. b. op
City (Bunhill Row) ...	...	...	...	...	...	...	...	...	...	...
Westminster (St. James's Pk.)	84	95	0.0	49	39	32	10	or	oc	o. c. b.
Camden Sq. (Brit. Rainfall)	88	97	0.0	48	39	34	12	o. c. m. or	op. o.	*
Hampstead (Reservoir) ...	...	...	...	...	...	...	...	...	...	...
Richmond Park ...	...	...	...	...	...	...	...	...	...	...
Kew. (See front page.)	...	...	...	...	...	...	...	...	...	...
(Greenwich and Camden Square air temperatures are in Glaisher screens.)	...	...	...	...	...	...	...	...	...	...
S. Kensington (Roof of M.O.)	86	88	0.0	48	37	23	13	or	bc m	bc m

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL. mm. §	TEMPERATURE.		WEATHER.		Sun- shine for Yester- day.
		In Screen.	Night Min. on Grass.	Night.	Fore- noon.	
		Max.	Min.			
Dublin to 4 p.m.	0.3	47	41	36	bc. p.	c. op.
Darwen to 9 p.m.	4	41	35	30	bc. m.	oc
Manchester "	...	...	...	...	...	...
Birmingham "	...	...	...	...	...	...
Oxford to 8 p.m.	...	...	...	...	...	...
Teignmouth to 9 "	18	52	44	36	bc. or	oc
Plymouth "	...	...	...	...	...	...
S. Kensington (Museum Grounds to 6 p.m.)	16	49	43	31	o. or. bc.	og. or. o. m. c.

## NOTES ON YESTERDAY'S WEATHER.

Temperature exceeded 50° at a number of southern stations. Rain was general, up to 16 mm. at South Farnborough. Thunder and lightning occurred in many localities. Valencia had four hours of sunshine, but generally there was little or none.

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. 357

Friday,  
3rd December, 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 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	WIND.		Dirac. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Dirac.	Force 0-12.						Dirac.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
Lerwick ...	1006.9	35	N	4	bc	1003.6	-2	31	-9	-	0	-	bcm	0	1	40	29	o. bc	bcsp.	bc	Hours.
Deerness ...	1007.4	34	NNW	4	b	1004.4	-2	32	-9	W	2	-	b	1	2	43	30	op. c. bc	bc. b.	b. bcsp. b	1.7
Stornoway ...	1011.3	37	N	4	c	1008.0	-3	32	-8	N	3	-	bc	3	0.3	41	30	c	c	bcsp	0.6
Castlebay (Barra Isd.)	1010.3	41	NNW	3	b	1006.8	-3	36	-6	N	3	-	b	3	0.3	45	35	b. op. o	o. c. b.	b	1.5
Glasgow ...	1008.9	38	ENE	1	c	1007.6	-3	31	-4	ENE	2	-	ag	*	-	43	29	af. bc. b	b. bc. c	bc. b. o	5.3
Eskdalemuir ...	1008.9	35	N	3	b	1007.5	-2	31	-4	NW	2	-	oe	*	-	42	27	bc. b	b. bc. b.	b. bc. c. o	3.9
Malin Head ...	1007.2	43	NE	3	bc	1004.2	-2	42	-2	E	5	E	og	4	-	48	40	bc	bc	og	4.6
Blacksod Point ...	1005.4	41	E	3	bcm	1000.8	-3	40	0	E	4	E	cm	3	-	44	38	bcz	bcm	og	*
Valencia ...	1001.2	48	E	4	o	996.3	-1	50	+13	SE	2	SE	odp	3	2	50	36	o	o	od. o	0.0
Roches Point ...	1003.5	47	ENE	3	r	998.5	*	49	+12	E	5	-	r	5	11	49	37	bf. o	ogr	r	*
Birr Castle ...	1004.9	39	NE	1	m	1000.0	*	42	+3	NE	1	-	r	*	1	42	35	f	f	od. r	0.0
Donaghadee ...	1006.8	43	E	3	bcm	1004.1	-2	41	-3	ESE	4	-	ogm	2	-	47	40	bcm	bcm	bcm. o	*
Liverpool (Bidston)	1006.9	38	SE	3	o	1004.4	-3	37	-4	SE	3	-	om	2	-	45	37	bc. b	b. om	f. om	4.4
Holyhead ...	1005.8	45	E	4	bcm	1001.6	-1	43	-1	E	5	-	om	4	-	47	40	o. c. bc	b. bc. b.	b. om	2.4
Pembroke (St. Ann's)	1003.8	44	E	3	cm	999.1	-2	44	0	ESE	4	-	md	2	2	49	42	cf	f	bcm. md	0.0
Scilly (St. Mary's)	999.3	50	E	5	omgr	998.8	0	53	+3	WSW	4	-	fd	6	23	53	48	o. omr	omrg	fr. fd	0.0
Falmouth ...	1001.9	48	ESE	2	r	999.5	-2	51	+6	E	2	-	r	2	22	51	44	or	or	r. d. r	0.0
Jersey (St. Aubin)	1002.7	50	ESE	3	omr	1001.6	*	54	+4	SW	2	-	omd	2	27	55	48	or	omr	omd. e. d	0.0
Portland Bill ...	1004.8	47	E	3	or	1000.3	-4	48	0	E	3	-	od	4	8	50	46	bc. c	o. er	er. od	*
Dungeness ...	1006.6	45	E	1	o	1003.2	-3	45	+2	E	3	E	c	3	1	47	40	c	o. c. o	o. bcp.	*
Dover ...	1007.2	42	-	0	o	1003.7	?	45	+1	E	3	-	o	3	1	48	41	bc. c	c. o	od. o	3.5
Wick ...	1008.1	36	N	1	bc	1007.4	-1	28	-15	-	0	-	b	2	1	44	24	bcm	bcp. rs	bcm	*
Nairn ...	1009.4	37	NW	2	ag	1007.4	*	30	-11	NW	1	-	bc	2	0.3	41	29	d. bc	bc. c	bc. c	0.0
Aberdeen ...	1007.9	38	NW	3	bc	1007.0	-2	31	-8	WNW	1	W	b	2	2	43	31	op. bc	bcp.	bc. b.	2.5
Leith ...	1008.1	41	N	2	c	1008.1	-1	35	-5	NE	1	-	o	1	-	43	32	c. bc	c. bc. o	og. bc	*
Tynemouth ...	1006.4	42	NW	1	cmp	1006.4	-1	38	-4	NNE	1	-	omp	3	3	44	35	bcm	bcm	omp	*
Spurn Head ...	1006.3	40	WNW	3	bcm	1005.6	-1	39	-1	NW	3	-	cf	4	-	42	33	bcm	bcm	bcm. f	4.0
Yarmouth ...	1006.2	39	NW	2	bc	1006.1	-2	40	-3	NW	1	-	bcm	2	-	47	36	bcm	bcm	bcm.	5.4
Clacton-on-Sea ...	1007.2	41	W	1	c	1004.5	-1	43	-1	E	2	-	o	1	-	47	39	og. c. bc	bc. ogm	c. bc. om	3.6
Nottingham ...	1006.7	37	-	0	f	1005.2	*	32	-8	E	1	E	om	*	0.2	42	27	c. bcm	bcm. fe	fe.	0.0
Bath ...	1005.1	44	E	1	o	1001.5	*	42	-1	E	3	E	r	*	5	46	40	og	og	g. or	0.0
Sth Farnborough ...	1006.1	42	E	1	o	1002.4	-5	44	+2	E	2	-	om	*	1	45	37	b. o	og	or. m.	1.7
London (Kew Obsy.)	1006.8	43	-	0	om	1003.1	-3	43	+2	E	4	-	of	*	-	46	40	bcm. bcm	bcm. om. of	om. of	1.3
Spitsbergen ...	1034.4	-24	S	2	b	1029.0	-1	-24	-5	ESE	1	*	b	*	*	-19	-29				
Vardö ...	1014.0	25	E	2	o	1011.4	0	25	+11	E	6	-	s	5	*	25	5				
Bodö ...	1006.6	16	E	2	b	1003.0	-3	14	-2	E	4	-	b	2	-	16	12				
Christiansund ...	1002.1	30	NE	6	o	1001.1	0	30	-2	-	0	-	b	5	1	32	28				
Skudesnaes ...	998.9	39	SSW	5	r	1001.0	0	34	-3	NNW	3	-	b	2	3	39	34				
Færder (Kianla Fjord)	1002.3	32	ENE	1	o	996.7	-3	34	+2	WNW	4	-	bc	2	-	34	32				
The Scaw (Skagen)	999.9	36	E	3	o	998.4	-3	34	-3	SW	4	-	bc	3	-	37	34				
Blaavands Huk ...	1001.1	36	NE	1	f	1003.8	0	37	+1	NW	2	-	o	2	4	39	34				
Haparanda ...	1007.8	-8	N	2	b	1005.7	-1	-8	-9	N	2	-	o	*	-	3	-11				
Hernösand ...	1007.0	14	N	2	o	1004.6	-1	9	-7	NW	4	-	o	*	-	16	9				
Stockholm ...	997.3	32	NNE	2	s	997.6	0	28	-4	N	2	-	o	*	1	34	28				
Wisby ...	995.8	39	SW	2	f	995.8	0	34	-5	NNE	4	-	o	4	1	39	32				
Karlstad ...	1001.7	28	NE	2	o	999.4	-3	27	-3	-	0	-	s	*	1	30	23				
Petrograd ...																					
The Helder ...	1005.0	45	WNW	3	o	1006.1	-2	32	-13	S	1	-	m	1	-	45	32				
C. Gris Nez ...	1004.1	45	WSW	1	o	1003.1	-4	44	-2	E	4	-	o	2	4	46	43				
La Hève ...	1003.4	46	SE	3	f	1004.2	*	54	+6	SW	4	-	r	4	20	54	46				
Ushant ...																					
Brest (St. Mathieu)	1003.8	54	WSW	5	f	1002.8	0	54	+2	W	5	-	f	5	7	55	52				
Rochefort (Ile d'Aix)	1012.3	54	SW	5	r	1011.5	0	53	+1	SW	5	-	r	*	7	55	50				
Biarritz ...	1014.3	62	S	3	b	1014.6	0	60	+3	SSE	2	-	bc	3	-	64	57				
Paris ...	1009.0	48	SSE	1	r	1006.0	-1	54	+8	SSW	4	-	o	*	16	55	46				
Belfort ...	1013.3	45	WSW	3	r	1011.8	*	?	?	WSW	7	-	r	*	17	53	44				
Lyons ...	1017.3	53	S	1	o	1016.4	*	48	-2	S	1	-	r	*	-	54	48				
Nice ...	1014.4	54	-	0	ba	1015.9	0	48	+3	-	0	-	c	3	-	57	45				
Perpignan ...	1017.3	52	W	1	o	1017.9	0	50	+4	-	0	-	o	*	-	59	46				
Sanguinaire ...	1011.9	58	S	3	m	1013.5	*	55	-3	E	3	-	m	3	-	61	52				
Corunna (7 a.m.)	1011.4	61	SW	6	o	1014.1	+1	63	+2	SW	3	-	o	4	8	63	57				
Madrid (8 a.m.)	1021.1	54	SW	2	bc.	1025.7	+3	45	-1	-	0	-	f	*	-	57	43				
Lisbon (9 a.m.)																					
Gibraltar ...																					
Rome ...																					
Malta (8 a.m.)		*	*	*	*	1023.4	+1	59	-2	-	0	-	b	0	-	66	55				
Azores (Horta, 8 a.m.)	999.7	*	SSW	5	o	997.6	+1	60	+3	SW	8	*	o	6	5	66	57				
Madeira (Funchal)																					

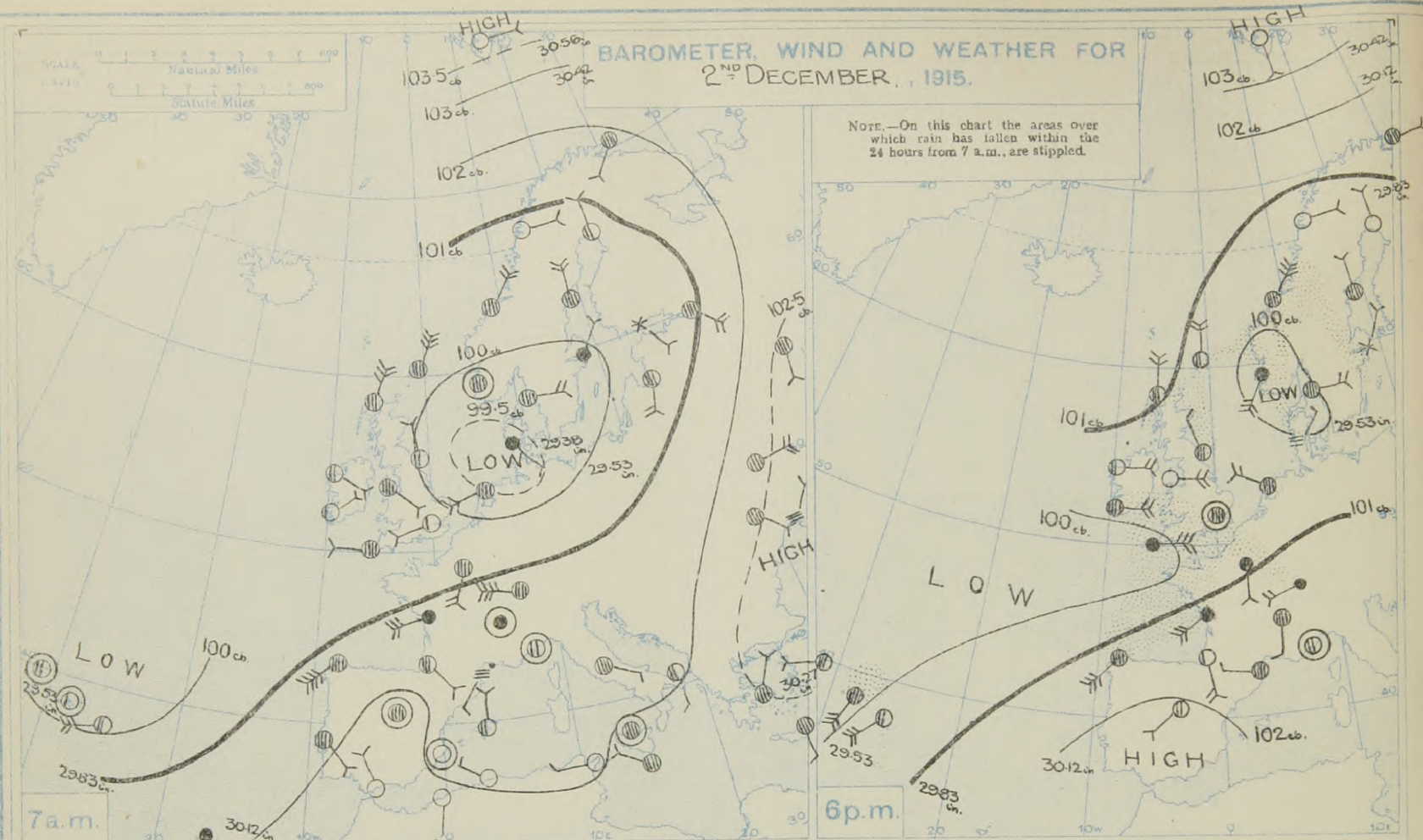
|

## RAINFALL.

Equivalents of Millimetres.  
in Inches.

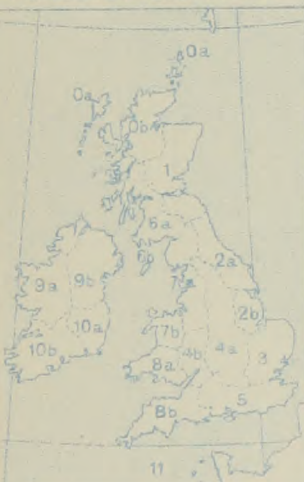
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69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

Light variable breezes, mainly Northerly, fair to fine, some mist; cold, night frost.

Light North-Westerly breezes, becoming Easterly; dull generally, some rain, mist or fog; moderate temperature.

Light to moderate Easterly breezes, probably veering South-East or South; dull, some rain, mist or fog; moderate temperature.

Same as Nos. 0 and 1.

Same as Nos. 4 and 5.

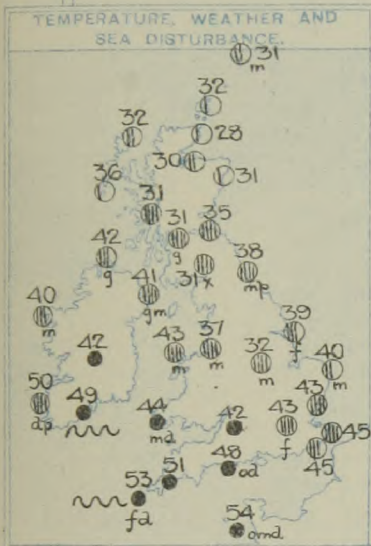
South-Westerly wind, strong or high at times; rough sea; changeable, some rain, mist or fog; mild.

**FURTHER OUTLOOK.**



GENERAL INFERENCE,

The depression in the south-west is very erratic in its movements and unsettled conditions are likely to prevail in most districts.



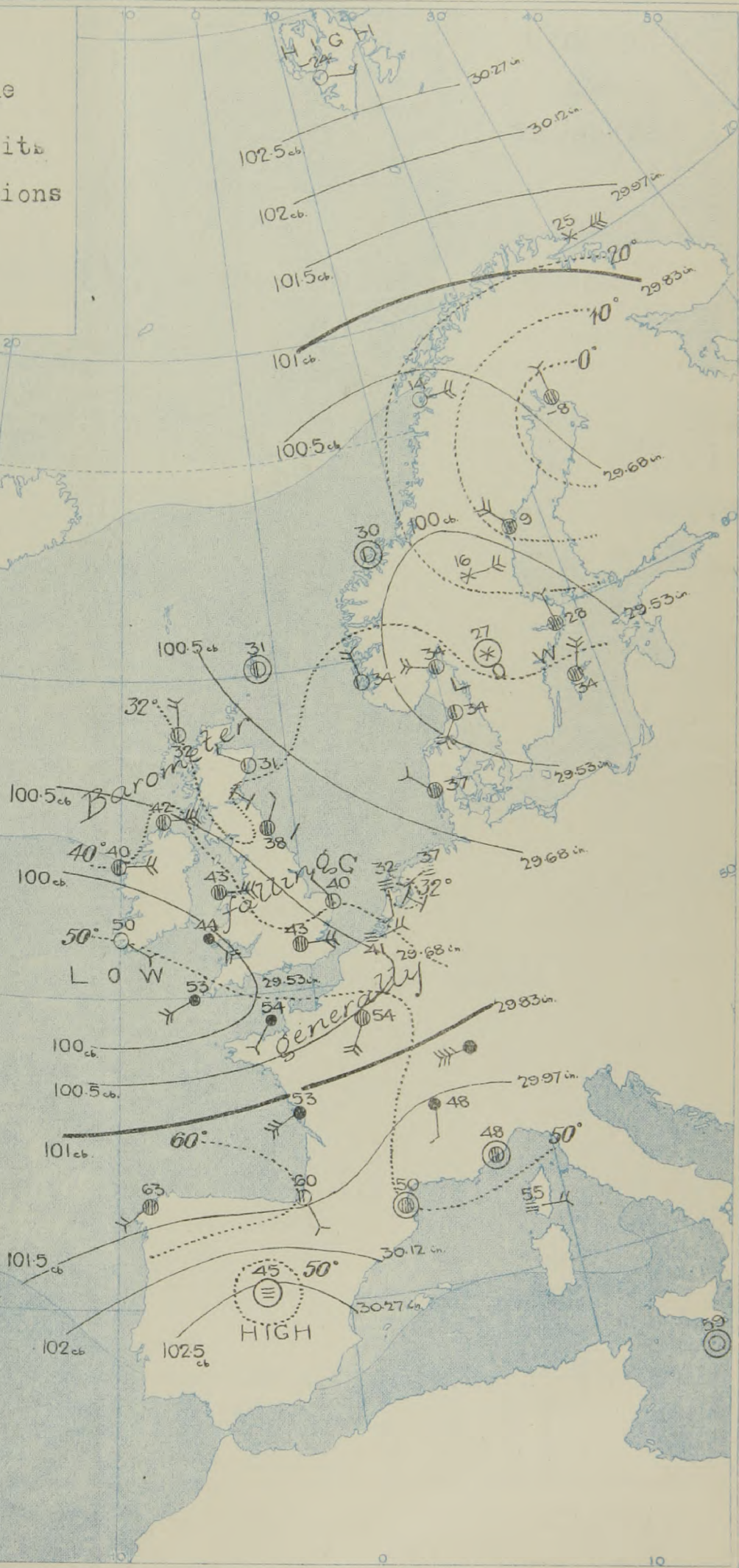
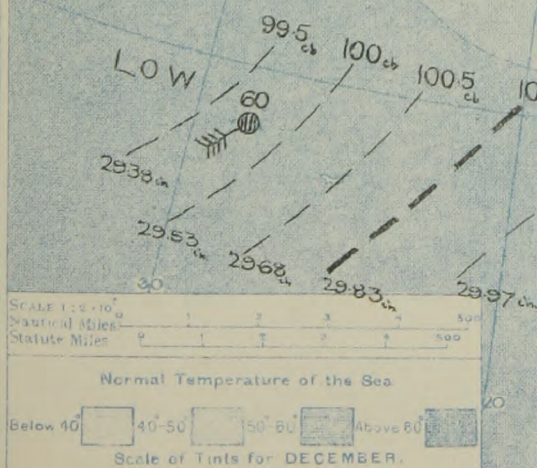
EXPLANATION.

**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 cloudy. ○ sky 3/4 cloudy.  
 ○ sky 3/4 cloudy. ○ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 K, thunderstorm.  
**SEA DISTURBANCE.**—Rough High

Inches  
31

30

29





## DAILY WEATHER REPORT.

Friday, 3rd December, 1915.

REPORTS  
FOR  
YESTERDAY.

3rd December, 1915.

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 24 hours. ° F.	Direc.	Force 0-12.					Max.	Min.
		* F.															
Petrograd	1013.1	21	S	3	0	1009.2	-3	27	+9	SE	4	-	0	*	2	27	18
Rome.	1016.8	54	SE	1	0	1016.7	+2	54		SE	1	-	0	*	-	59	50.

## 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 ...	...	45	31	...	...	5.3	Margate ...	...	47	43	...	...	2.5
Banff ...	3	43	29	...	...	0.2	Ramsgate ...	...	47	41	bc	3	3.0
Carnoustie ...	...	...	...	...	...	...	Hastings ...	...	50	41	bc, bc	0	2.5
St. Andrews ...	...	...	...	...	...	...	Bexhill-on-Sea ...	...	...	...	...	...	...
England, N.E.							Eastbourne ...	...	48	43	bc	om	1.5
Harrogate ...	1	44	35	d	bc	5.9	Seaford ...	...	50	42	bc	0	0.6
Skegness ...	1	47	37	bc	bc	5.5	Brighton ...	...	47	43	b	b	0.6
England, N.W.							Worthing ...	...	46	42	c	bc	0.2
Morecambe ...	...	...	...	...	...	...	Littlehampton ...	...	51	41	bc	0	0.7
Blackpool ...	1	45	33	bc, bc	bc, bc	4.5	Bognor ...	...	47	42	0	0	0.8
Southport ...	1	44	36	bc, bc	bc, bc	2.1	Southsea ...	...	46	43	0	0	0.0
Midlands.							Bournemouth ...	...	46	41	bc	bc	0.0
Buxton ...	...	...	...	...	...	...	England, S.E.						
Leamington Spa ...	0.3	43	34	bc, bc	bc, bc	0.8	Weymouth ...	...	48	42	bc, bc	bc	0.0
Malvern ...	...	...	...	...	...	...	Torquay ...	...	49	43	0	bc	0.0
Ross-on-Wye ...	...	...	...	...	...	...	Paignton ...	...	48	41	bc	bc	0.0
Wales.							Falmouth ...	...	49	45	bc	bc	0.0
Rhyl ...	1	47	38	bc, bc	bc	4.2	Penzance ...	...	51	46	bc	bc	0.0
Colwyn Bay ...	...	...	...	...	...	...	Newquay ...	...	49	44	bc	bc	0.0
Llandudno ...	...	...	...	...	...	...	Ilfracombe ...	...	49	43	bc	bc	0.0
Aberystwyth ...	3	46	41	bc, bc	bc, bc	2.0	Weston-super-Mare ...	...	46	40	bc, bc	bc	0.0
Tenby ...	...	...	...	...	...	...							
England, S.W.													
Cromer ...	...	...	...	...	...	...							
Lowestoft ...	0.1	47	40	bc, bc	bc, bc	5.1							
Felixstowe ...	1	47	39	bc, bc	bc, bc	4.4							
Walton-on-Naze ...	0.2	46	40	bc, bc	bc, bc	3.5							
Southend-on-Sea ...	...	...	...	...	...	2.9							

## 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.) ...	% 93	% 98.	Hr. 1.4	° F. 45	° F. 40	° F. 35	mm.‡ 2	bc.c	om	om, am
City (Bunhill Row) ...	% *	% *	0.0	% *	% *	% *	% *	% *	% *	% *
Westminster (St. James's Pk.)	88	97	0.5	50	29	33	3	bom.c	m	f.or.
Camden Sq. (Brit. Rainfall)	90	97	0.0	45	40	27	3	bm.c	o.	*
Hampstead (Reservoir) ...	% *	97	2.6	44	38	31	3	bc.o	om	om, am
Richmond Park ...	% *	% *	0.9							
Kew. (See front page.)										
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
				Total.		Average Rate.		Max. Rate.		
				176 Joules		6.0 Milliwatts.		15 Milliwatts.		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	83	94.	0.7							

## Additional Observations for Yesterday.

STATIONS.	Rain- fall. mm.†	TEMPERATURE.		Night Min. on Grass.	WEATHER.		Sun- shine for Yester- day. Hr.
		In Screen.	Night Min. on Grass.		Night.	Fore- noon.	
		° F.	° F.				
Dublin to 4 p.m.	...	...	...	...	...	...	...
Darwen to 9 p.m.	...	...	...	...	...	...	...
Manchester "	0.4	40	36	...	bc	bc	0.0
Birmingham "	...	...	...	...	...	...	...
Oxford to 8 p.m.	...	...	...	...	...	...	...
Teignmouth to 9 "	8	49	41	35	bc, c	bc, c	0.0
Plymouth "	...	...	...	...	...	...	...
S. Kensington (Museum Grounds to 6 p.m.)	0.2	46	41	30	bc, bc	bc, bc	...

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to above the normal generally, but at night frost occurred in the north. Rain fell in most places, large amounts in the south-west, 27 mm. at Jersey. Sunshine ranged from none at several stations to six hours at Harrogate.

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

3rd & 4th Dec., 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.45	11.43	3.40
Greenwich ...	7.46	11.43	3.40
Wick ...	7.49	11.50	3.52
Valencia ...	8.31	12.2	3.22

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. 338.

Saturday  
4th December, 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.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Direc.	Force 0-12.												Max.	Min.	Morning.	Afternoon.	Night.	
Lerwick ...	1000.8	31	-	0	bcm	998.6	0	30	-1	-	0	-	bcm	0	2	35	27	besp	besp	besp.	Hours.
Deerness ...	1001.3	31	WNW	3	b	1000.0	2	31	-1	NW	1	-	b	1	1	36	30	b.beshp	psn.b.	b.s.p.b.	0.5
Stornoway ...	1004.0	33	NNE	4	esp.	1001.8	-1	28	-4	N	1	-	b	1	4	35	27	esp	esp.	a.b.c.b.	0.0
Castlebay (Barra Isd.)	1001.8	37	ENE	4	b	1000.8	-2	35	-1	N	3	-	b	3	0.4	37	34	bc	cshp.b.	bc.b.	1.6
Glasgow ...	1001.2	32	ENE	2	o	1000.7	-1	30	-1	ENE	3	NW	b	*	-	34	29	o	osp	o.c.b.	0.0
Eskdalemuir ...	999.8	32	NE	4	osd	999.6	-1	30	-1	NE	4	-	o	*	3	33	28	osd	osd.	os.o	0.0
Malin Head ...	999.3	38	NE	5	ag	998.3	-1	36	-6	E	4	E	cg	4	42	34	cg	cg	cg	0.0	
Blacksod Point ...	996.9	38	E	6	omr	995.7	-2	37	-3	E	5	E	ogm	4	5	47	36	omr	omr.	omr.	*
Valencia ...	998.8	50	SW	3	b	991.4	-5	46	-4	ENE	2	-	or	3	1	54	43	ond	bc	bc.c.or	4.0
Roche's Point	998.8	49	WSW	4	c	994.2	*	46	-3	ESE	4	-	r	4	7	52	46	r.o.cp	c.b.	b.or	*
Birr Castle ...	995.5	49	NW	2	o	994.8	*	39	-3	NW	2	-	o	*	7	48	38	or	or.op	o	0.0
Donaghadee ...	997.9	38	ESE	4	orm	997.7	-1	37	-4	E	4	-	og	4	6	41	35	omr	omr.	omr.og.	*
Liverpool (Bidston)	995.8	41	WSW	3	o	996.0	-1	40	+3	E	1	-	me	2	6	44	37	or	o	f	0.0
Holyhead ...	995.3	46	N	2	omd	995.1	0	43	0	E	4	-	om	3	8	46	42	o.ond	or.o.ond	omr.om	9.0
Pembroke (St. Ann's)	997.4	51	WSW	6	cg	995.2	-3	44	0	SSW	1	-	od	1	1	52	43	fc.cg	bcq.	cg	0.0
Scilly (St. Mary's)	1003.3	52	WSW	4	cmg	994.4	-6	51	-2	SE	4	-	omr	4	16	54	48	cmg	omr.jp.	omr.or	3.2
Falmouth ...	1003.7	52	WSW	5	bcq	995.7	-4	49	-2	SE	2	-	thr	*	16	54	47	r.b.cq	bcq.cp	r.or.thr.	2.2
Jersey (St. Aubin)	1006.7	63	W	3	o	1000.2	*	55	+1	SW	3	-	oe	3	4	55	50	omd.o	o.c.o.	b.op	1.1
Portland Bill ...	1001.9	52	WSW	6	bc	998.2	-1	48	0	E	1	W	bc	5	14	52	47	r.f.c	c.be	bc.c.or	*
Dungeness ...	1000.2	47	W	4	b	998.3	-3	48	+3	SE	2	-	r	2	15	50	45	bc.or	o.be	bc.c.or	*
Dover ...	1000.8	50	W	5	b	998.8	-3	47	+2	SSE	3	-	f	3	15	51	44	op.r	o.oe.b.	bc.orf	0.0
Wick ...	1001.8	34	N	3	b	1000.8	-1	25	-3	NW	2	-	bc	3	3	26	20	bm.osp	bcn.	sp.bcm	*
Nairn ...	1002.2	33	W	1	cg	1002.0	*	24	-6	-	0	-	bc	1	0.4	34	23	boma	gps.c	bcx	0.1
Aberdeen ...	1000.7	32	W	3	b	1000.9	0	27	-4	NW	2	-	b	2	-	35	25	b.b.c	c.b.c.b.	bcx	2.2
Leith ...	1002.0	35	NE	2	s	999.8	-1	35	0	NE	2	NE	c	2	1	37	34	o.c.or	og.os	or.o	*
Tynemouth ...	998.9	39	E	2	omr	998.4	0	37	-1	ESE	4	-	omr	2	20	40	35	omr	omr.	omr.	*
Spurn Head ...	995.6	40	S	3	r	997.6	-1	38	-1	N	2	-	od	5	2	42	38	f.or	or.	or.	0.0
Yarmouth ...	996.7	44	S	3	omr	997.4	-2	46	+6	WSW	3	-	op	3	3	50	40	bcp	ond.	og.omy	0.0
Clacton-on-Sea	998.7	44	SW	2	o	998.5	-2	44	+1	WNW	1	-	o	1	10	47	42	ogmr	ogmd.	bc.ogd.	0.0
Nottingham ...	995.6	43	SW	3	o	997.2	*	37	+5	ENE	1	E	o	*	7	46	32	ondp.	r.o	o.cp	0.0
Bath ...	1000.2	52	W	2	o	997.3	*	44	+2	E	4	W	o	*	6	52	41	r.o	o	a.c.b.c.r	0.0
Sth Farnborough	1000.5	49	WSW	3	o	997.4	-3	45	+4	SSW	1	-	om	*	11	49	41	r.m.	r.o.c.o	b.r.om	0.0
London (Kew Obsy.)	1000.5	49	SW	4	r	998.1	-4	46	+3	SSW	1	-	om	*	13	49	43	of.sfr.cg	om.omr.om	bc.o.bop.omr	0.0
Spitsbergen ...	1026.0	-24	-	0	b	1023.7	0	-27	-3	-	0	*	b	*	*	-24	-35				
Vardö ...	1012.0	23	SE	6	bc	1010.9	0	23	-2	NE	6	-	bc.	5	*	25	12				
Bodö ...	1201.0	14	E	4	b	999.1	-1	14	0	E	4	-	b	2	-	14	12				
Christiansund	996.3	30	SE	3	o	993.2	0	32	+2	NW	5	-	c	5	1	32	30				
Skudesnaes ..	998.1	32	-	0	s	996.7	0	32	-2	SSE	3	-	c	3	2	36	30				
Færder (X'ania Fjord)	1000.3	28	NNW	2	b	999.3	0	23	-11	ESE	1	-	b	1	-	34	23				
The Scaw (Skagen)	1000.2	32	NNE	1	b	998.3	+1	30	-4	SE	2	-	c	2	-	37	27				
Blaavands Huk	1000.7	34	SSE	1	o	998.4	0	34	-3	SSE	1	-	s	1	2	37	30				
Haparanda ...	1003.9	3	N	2	o	1001.0	-1	7	+15	NNE	4	-	o	*	-	9	-8				
Hernösand ...	1001.6	9	N	4	s	997.9	-2	9	0	NW	2	-	s	*	2	9	7				
Stockholm ...	994.4	27	NW	2	s	996.8	+1	12	-16	W	2	-	b	*	3	28	12				
Wisby ...	996.3	36	W	4	bc	997.2	0	27	-7	NNW	4	-	c	3	-	36	25				
Karlstad ...	998.0	23	-	0	o	1000.8	+3	0	-27	N	2	-	f	*	3	27	-4				
Petrograd (5 a.m. G.M.T.)																					
The Helder ...	997.5	39	ESE	2	r	997.9	0	45	+13	SSW	1	-	o	3	3	48	20				
C. Gris Nez ...	1001.6	50	SW	6	b	999.3	-6	47	+3	SE	3	*	o	2	16	50	44				
La Hève ...	1002.1	45	SW	4	bc	1000.4	*	53	-1	SW	5	*	o	5	2	54	48				
Ushant ...																					
Brest (St. Mathieu)	1008.6	52	SW	4	bc	1000.8	-2	54	0	SW	5	*	r	5	2	65	52				
Rochefort (Ile d'Aix)	1013.6	52	WSW	4	f	1010.3	-2	55	+2	WSW	4	*	o	*	10	55	52				
Biarritz ...	1015.1	63	S	2	b	1012.4	-1	64	+4	SSE	2	*	c	2	-	70	60				
Paris ...	1009.2	52	SW	2	c	1004.2	-4	55	+1	SSW	5	-	o	*	5	57	45				
Belfort ...	1011.5	53	WSW	7	o	1011.4	*	53	?	SW	7	*	o	*	2	54	51				
Lyons ...	1016.3	54	-	0	b	1015.9	*	49	+1	S	1	*	c	*	-	55	49				
Nice ...	1015.5	50	-	0	bc	1016.3	0	49	+1	-	0	*	c	2	-	57	45				
Perpignan ...	1017.5	48	-	0	b	1017.2	+2	43	-7	-	0	-	f	*	-	59	39				
Sanguinaire ...		55	S	4	m	*	*	55	0	E	3	*	o	3	-	59	52				
Corunna (7 a.m.)	1014.1	64	SW	4	c	1009.7	-3	63	0	SSW	6	SW	o	4	6	66	63				
Madrid (8 a.m.)	1023.9	52	SSW	1	o	1021.3	0	50	+5	-	0	-	o	*	Trace	52	45				
Lisbon (9 a.m.)	1020.8	63	S	4	bc	1017.9	-1	61	0	SSW	3	-	o	*	-	64	59				
Gibraltar ...	1023.0	59	W	4	b	1020.6	*	51	-3	NW	3	*	b	2	-	66	50				
Rome ...																					
Malta (8 a.m.)		*	*	*	*	1021.9	0	59	0	NW	1	-	o	1	-	64	57				
Azores (Horta, 8 a.m.)	1000.4	*	W	5	bc	1005.3	-2	65	-5	WNW	1	*	o	3	9	64	54				
Madeira (Funchal)	1019.7	66	W	4	o	1016.7	-1	64	-2	*	*	-	r	*	1	68	63				
South Farnborough																					
Pilot Balloon Ascent at about 7 a.m.																					
500 metres. S by W 6 miles per hour.																					

## RAINFALL. Equivalents of Millimetres. in Inches.

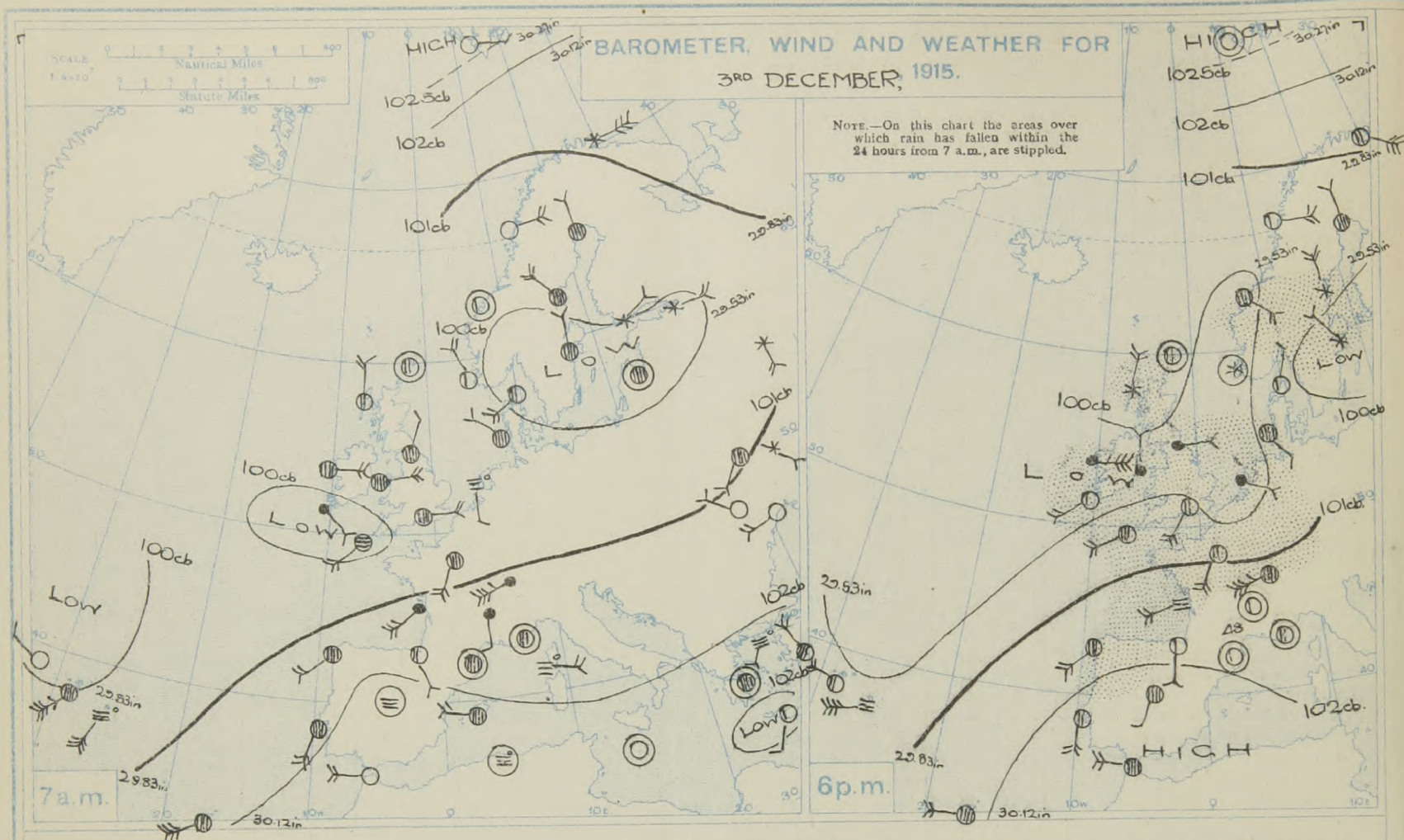
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69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

500 metres. S by W 6 miles per hour.





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 } | Light variable Northerly breezes, veering Easterly and freshening; fine to fair at first, some cold precipitation later; night frost. |
| 1  | a }<br>b } | Freshening Easterly and South-Easterly breezes; unsettled, misty, rainy; moderate temperature.  |
| 2  | a }<br>b } |   |
| 3  | a }<br>b } |   |
| 4  | a }<br>b } |   |
| 5  | a }<br>b } | South-Easterly to Southerly and South-Westerly breezes, freshening; dull to rainy and misty; mild.                                    |
| 6  | a }<br>b } | Same as Nos. 0 and 1.   |
| 7  | a }<br>b } | Same as Nos. 2 to 4.  |
| 8  | a }<br>b } | Same as No. 5.  |
| 9  | a }<br>b } | Freshening Easterly winds; dull, misty to rainy; moderate temperature.  |
| 10 | a }<br>b } |   |
| 11 | a }<br>b } | South-Westerly winds, strong to gale; high sea and swell; dull, rainy and foggy; mild.  |

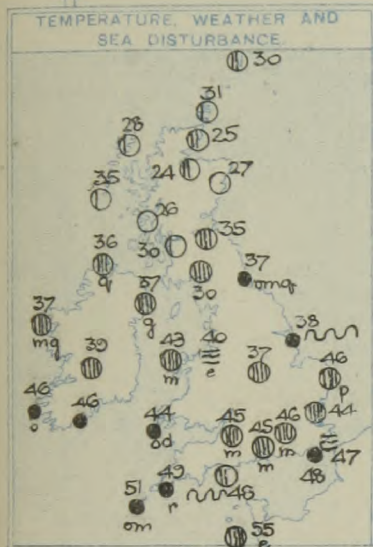
**FURTHER OUTLOOK.**



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

## GENERAL INFERENCE.

Another disturbance approaching from the south-west will maintain the unsettled conditions.



## EXPLANATION.

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

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

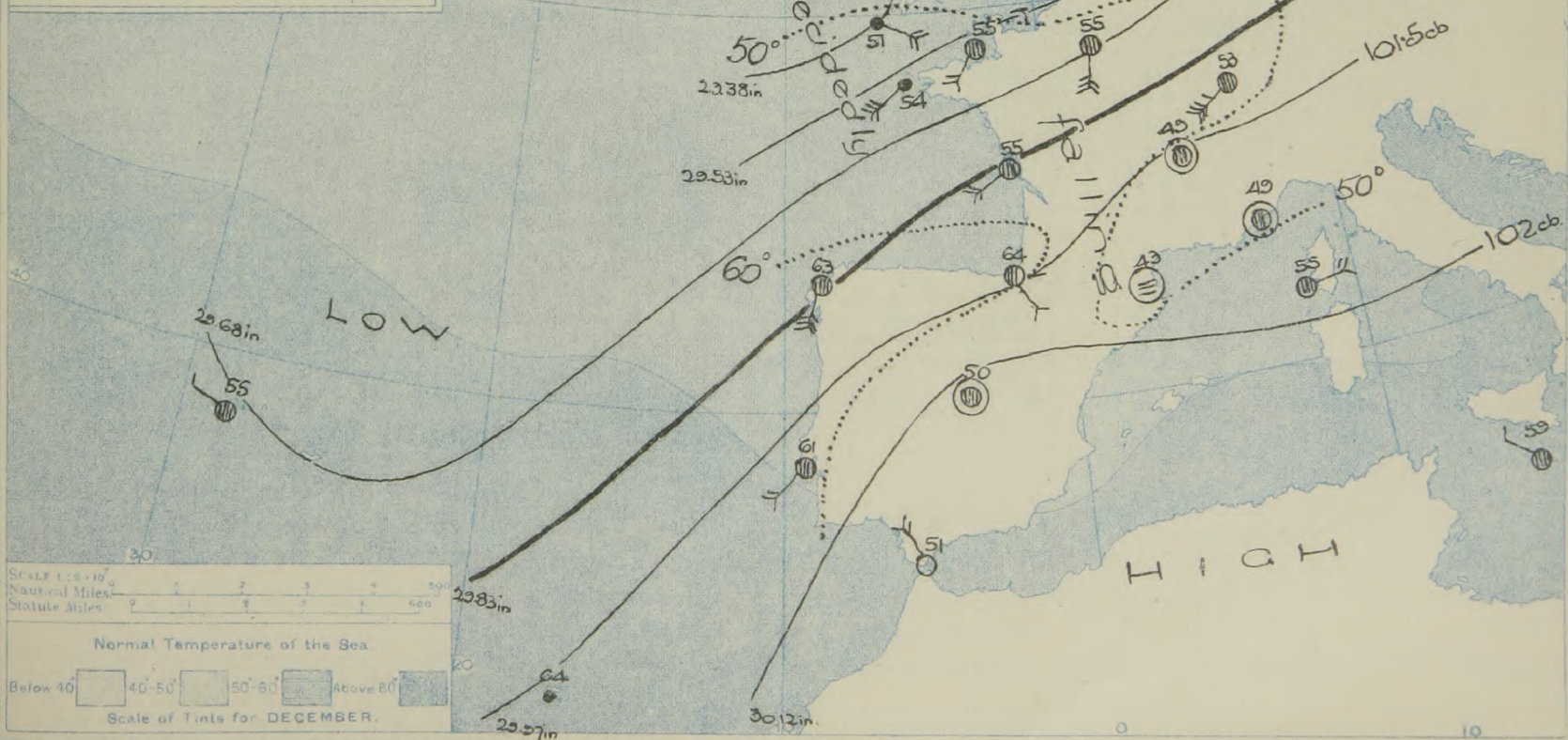
Force, on the scale 0-12, is indicated by the number of feathers. Calm

**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.  
 ⚡, thunderstorm.

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





## DAILY WEATHER REPORT.

Saturday, 4th December, 1915.

REPORTS  
FOR  
YESTERDAY.

3rd December, 1915.

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

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.	
Scotland.	mm. & °F.	°F.	°F.			Hr.
Oban ...	...	37	28	bc	bc	16
Banff ...	1	37	30	bc	bc	06
Carnoustie ...	...	35	28	*	*	07
St. Andrews ...	...	37	34	bc	bc	00
England, N.E.	mm. & °F.	°F.	°F.			Hr.
Harrogate ...	9	37	34	bc	bc	00
Skegness ...	5	42	33	bc	bc	00
England, N.W.	mm. & °F.	°F.	°F.			Hr.
Morecambe ...	...	40	33	bc	bc	00
Blackpool ...	7	40	33	bc	bc	00
Southport ...	8	39	32	bc	bc	00
Midlands.	mm. & °F.	°F.	°F.			Hr.
Buxton ...	6	37	30	bc	bc	00
Leamington Spa ...	5	46	33	bc	bc	00
Malvern ...	...	51	37	bc	bc	00
Ross-on-Wye ...	7	51	37	bc	bc	00
Wales.	mm. & °F.	°F.	°F.			Hr.
Rhyl ...	2	43	34	bc	bc	00
Colwyn Bay ...	3	45	35	bc	bc	00
Llandudno ...	...	50	40	bc	bc	00
Aberystwyth ...	2	50	40	bc	bc	00
Tenby ...	16	51	42	bc	bc	00
England, E.	mm. & °F.	°F.	°F.			Hr.
Cromer ...	2	45	37	bc	bc	00
Lowestoft ...	...	45	34	bc	bc	00
Felixstowe ...	4	45	34	bc	bc	00
Walton-on-Naze ...	...	47	40	bc	bc	00
Southend-on-Sea ...	6	47	40	bc	bc	00
England, S.E.	mm. & °F.	°F.	°F.			Hr.
Tunbridge Wells ...	...	51	43	bc	bc	00
Margate ...	4	51	43	bc	bc	00
Ramsgate ...	3	45	42	bc	bc	00
Hastings ...	8	52	44	bc	bc	00
Bexhill-on-Sea ...	...	53	45	bc	bc	00
Eastbourne ...	12	53	45	bc	bc	00
Seaford ...	11	51	44	bc	bc	00
Brighton ...	12	50	43	bc	bc	00
Worthing ...	14	50	44	bc	bc	00
Littlehampton ...	14	51	44	bc	bc	00
Bognor ...	15	52	44	bc	bc	00
Southsea ...	12	52	44	bc	bc	00
Bournemouth ...	8	52	41	bc	bc	00
England, S.W.	mm. & °F.	°F.	°F.			Hr.
Weymouth ...	9	53	45	bc	bc	06
Torquay ...	11	54	46	bc	bc	16
Paignton ...	9	54	47	bc	bc	05
Falmouth ...	8	54	47	bc	bc	22
Penzance ...	11	54	47	bc	bc	23
Newquay ...	...	53	45	bc	bc	16
Ilfracombe ...	13	53	43	bc	bc	00
Weston-super-Mare ...	11	52	41	bc	bc	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.
Greenwich (Royal Obs.) ...	98	98	0.0	50	43	40	bc	bc	bc
City (Banhill Row) ...	98	98	0.0	51	45	41	bc	bc	bc
Westminster (St. James's Pk.)	98	98	0.0	51	45	41	bc	bc	bc
Camden Sq. (Brit. Rainfall)	99	91	0.0	50	44	41	bc	bc	bc
Hampstead (Reservoir) ...	98	91	0.0	48	40	35	bc	bc	bc
Richmond Park ...	98	91	0.0	48	40	35	bc	bc	bc
Kew. (See front page.)	98	91	0.0	48	40	35	bc	bc	bc
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.									
Total.				Average Rate.		Max. Rate.			
38 Joules				1.3 Milli-watts		5. Milli-watts			
S. Kensington (Roof of M.O.)	94	97	0.0	38	30	25	bc	bc	bc

## 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.	8	45	43	bc	bc	0.0
Darwen to 9 p.m.	6	38	34	bc	bc	0.0
Manchester "	6	44	35	bc	bc	0.0
Birmingham "	6	44	35	bc	bc	0.0
Oxford to 8 p.m.	6	44	35	bc	bc	0.0
Teignmouth to 9 "	11	55	46	bc	bc	1.1
Plymouth "	11	55	46	bc	bc	1.1
S. Kensington (Museum Grounds to 6 p.m.)	5	50	43	bc	bc	0.0

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.
4th Dec., 1915.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.46	11.43	3.40
Greenwich ...	7.47	11.44	3.40
Wick ...	7.48	11.51	3.52
Valencia ...	8.45	12.31	3.21

## NOTES ON YESTERDAY'S WEATHER.

Temperature was low in the north, high in the south. Rain was general, up to 20 mm. at Tynemouth; snow fell in various parts of Scotland. Valencia had four hours of sunshine, but as a rule there was none or very little.

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.

1 mm. is approximately 4 hundredths of an inch.

The barometric change is expressed in half-millibars.



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 339.

Sunday,  
5th December 1915.

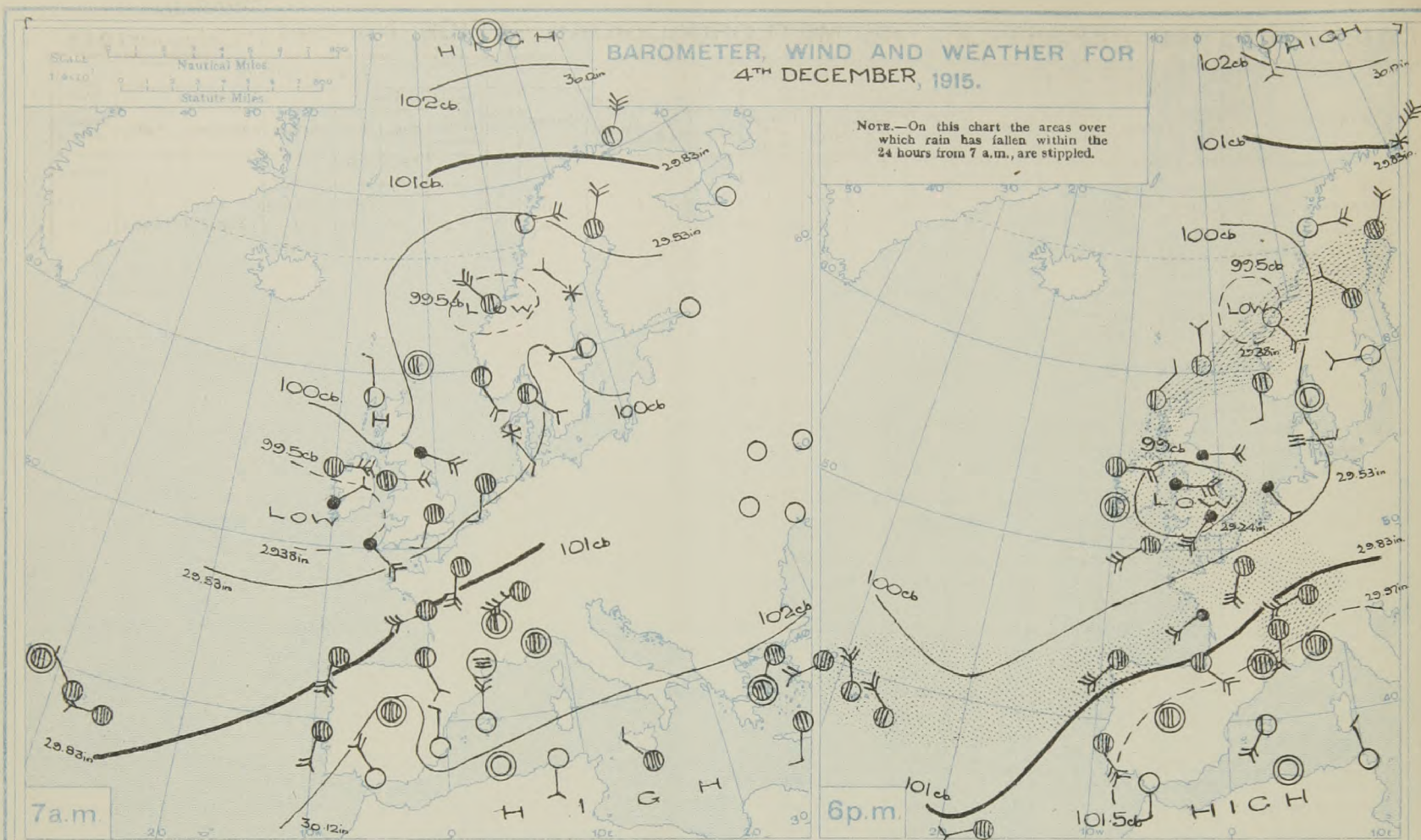
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
Lerwick ...	998.2	32	N	2	dm	999.1	+1	33	+3	N	2	N	bc	2	0.4	34	28	bc	bc	bcsp	Hours.
Deerness ...	998.3	32	WNW	2	b	1000.3	+	31	0	NE	2	-	b	1	2	33	29	bpsbcd	b	b	4.0
Stornoway ...	999.1	28	NE	1	bc	999.8	+1	33	+5	NE	3	-	bc	3	2	33	23	bz	beps	beps	1.5
Castlebay (Barra Isd.)	997.4	37	NNE	4	b	997.8	0	37	+1	E	3	-	bc	3	-	38	34	bo	ob	bc	1.4
Glasgow ...	995.6	33	ENE	3	o	999.4	0	32	+2	ENE	4	-	o	+	Trace	33	28	c.ogm	oghp	o.c.bog	0.0
Esksdalemuir ...	994.0	32	NNE	5	os	999.6	+1	31	+1	NE	2	-	osd	+	0.1	32	28	os.o	os	os.asd	0.0
Malin Head ...	994.4	36	NNE	4	bcy	994.8	-2	36	0	ESE	5	-	omrjt	5	1	38	34	og	og	omr	0.0
Blacksod Point ...	993.1	37	E	3	om	986.1	-10	36	-1	ESE	4	E	omrjgs	3	9	38	35	omg	omrj	omrjgs	0.0
Valencia ...	992.0	43	-	0	c	987.1	-3	51	+5	S	4	S	c	4	4	52	38	omr.d	omr.d	bcsp.c	0.0
Roche's Point	991.1	44	N	3	o	992.3	+	51	+5	SW	3	-	o	5	16	51	40	r	r.om	o.c.p.o	0.0
Birr Castle ...	990.3	37	NW	2	r	990.1	+	43	+4	SE	2	-	c	+	5	43	35	oe	oe	oe.c	0.0
Donaghadee ...	991.3	38	ENE	3	omrjbd	995.0	+	40	+3	SE	5	-	omr	4	1	41	36	omrjg	omrjbd	ogm.fg	0.0
Liverpool (Bidston)	987.3	38	E	3	r	998.1	-2	36	-4	E	3	E	bc	3	18	42	36	oe	oe	oe.c	0.0
Holyhead ...	986.6	42	E	5	om	996.0	-2	41	-2	SE	3	-	og	2	9	44	39	omr	oe.f.m	omr.omr	0.0
Pembroke (St. Ann's)	985.5	46	N	4	op	995.9	-2	49	+5	SSW	5	-	ogjt	4	23	52	44	og	omr	c	0.0
Scilly (St. Mary's)	989.8	52	WSW	7	og	996.9	-2	51	0	S	4	SW	cj	5	3	55	48	omrjg	og.oe	o.c.qd	0.1
Falmouth ...	990.2	51	WSW	8	o	998.6	-1	50	+1	SSW	3	-	c	+	11	55	44	og	r.og	og.oe	0.0
Jersey (St. Aubin)	995.6	57	SSW	5	odp	1002.7	+	50	-3	SW	3	SW	bc	3	1	57	49	o.c.op	odp	og.b	0.2
Portland Bill ...	989.4	52	WSW	7	oe	1000.4	+3	50	+2	WSW	3	-	bc	5	12	54	48	oe	oe	c.o	0.0
Dungeness ...	990.7	52	SSW	7	oe	1001.6	+8	43	-5	N	3	SW	c	4	9	53	42	oe	oe	op.b	0.0
Dover ...	991.2	52	SSW	7	r	1003.9	+5	43	+4	NW	2	-	c	3	7	54	42	op.r	op.r	op.o.c	0.0
Wick ...	997.7	23	WNW	2	b	1000.3	+1	23	-2	WNW	2	-	b	3	0.2	22	19	bomps	bom	bom	0.0
Nairn ...	998.4	21	-	0	b	1000.6	+	19	-5	-	0	-	bc	1	-	28	18	bc	bc	b.bom	2.7
Aberdeen ...	997.8	29	WNW	3	b	1001.1	+1	26	-1	SW	1	-	b	2	-	33	25	b	b	b.c	3.4
Leith ...	995.5	37	NE	3	r	999.4	+1	35	0	E	1	-	r	+	2	37	34	cy.s.o	os.oe	odg.oe	0.0
Tynemouth ...	993.2	39	E	4	omrj	999.8	+4	40	+3	ESE	3	-	omr	4	12	41	36	ogr	omrj	omrj	0.0
Spurn Head ...	989.4	43	SSE	4	oe	999.9	+3	42	+4	SSE	4	-	o	5	8.1	43	38	odf	f.oe	oe	0.0
Yarmouth ...	987.3	45	SSE	3	r	1000.9	+10	40	-6	NW	2	-	c	2	10	55	41	omr	omr	omr.b	0.0
Clacton-on-Sea ...	989.6	47	S	3	o	1002.2	+4	43	-1	WNW	1	-	o	1	5	51	42	ogm.f	ogm.f	ogm.f	0.0
Nottingham ...	985.1	43	E	5	r	1000.4	+	38	+1	SW	1	-	o	+	23	44	37	om	oe	oe	0.0
Bath ...	986.5	57	SW	4	o	1001.0	+	43	-1	SE	0	SW	o	+	10	58	41	oe	oe	oe.b	0.0
St. Farnborough ...	989.1	55	SW	7	oe	1001.8	+4	38	-7	-	0	-	bc	+	5	55	37	omr	op.rj	h.b.c	0.0
London (Kew Obs.)	988.7	54	SW	3	omrj	1002.9	+5	42	-4	-	0	-	o	+	7	55	41	omr.omr	omr.omr	omr.og	0.0
Spitsbergen ...	1024.7	-22	S	2	b	1025.0	+2	-19	+8	SE	2	+	b	+	+	-8	-27	GALES.			
Vardö ...	1011.4	23	NE	7	3	1028.0	0	21	-2	E	7	-	o	4	+	23	19	Duration and Extreme Force in British Islands.			
Bodö ...	1000.3	14	E	4	b	999.3	0	16	+2	E	6	-	b	2	-	16	12				
Christiansund ...	993.3	30	SE	3	b	992.7	0	32	0	NW	2	-	c	5	6	32	28				
Skudesnaes ...	997.0	34	E	1	c	998.3	+2	34	+2	SSE	4	-	c	4	+	36	28				
Færder (Xiania Fjord)	999.9	25	N	2	f	1000.7	+2	16	-7	N	5	-	f	2	-	27	16				
The Scaw (Skagen)	1000.6	27	-	0	b	998.4	+1	28	-2	E	3	-	c	2	-	30	27				
Blaavands Huk ...	999.0	28	E	1	f	994.6	+5	30	-4	NE	3	-	s	3	Trace	36	37				
Haparanda ...	1001.1	5	NNE	4	o	1003.9	+1	9	+2	NE	4	-	o	+	Trace	9	3				
Hernösand ...	1001.0	10	NW	2	o	1004.3	+2	-6	-15	N	2	-	b	+	Trace	10	-8				
Stockholm ...	1000.4	9	N	2	b	1001.7	-1	0	-12	-	0	-	o	+	+	14	-4				
Wisby ...	1001.3	27	NW	4	b	999.0	-3	23	-4	ENE	2	-	c	+	-	28	19				
Karlstad ...	1001.1	0	-	0	o	1002.1	?	10	+10	N	2	-	o	+	-	10	-2				
Petrograd (5 a.m. G.M.T.)																					
The Helder ...	992.7	45	SE	2	r	998.9	+21	41	-4	N	1	-	c	3	8	48	41				
C. Gris Nez ...	992.7	49	SSW	6	r	1002.7	+8	46	-1	N	5	+	bc	5	14	52	46				
La Hève ...	996.7	51	SW	5	o	1003.7	+	47	-6	WSW	4	+	c	5	1	55	45				
Ushant ...																					
Brest (St. Mathieu)	998.0	54	SW	6	o	1000.3	-3	53	-1	ESE	5	+	o	5	2	55	52				
Rochefort (Ile d'Aix)	1007.3	54	SW	4	r	1006.7	-1	53	-2	S	3	+	o	+	3	57	52				
Biarritz ...	1010.0	59	ESE	4	c	1006.4	-3	68	+4	S	3	+	o	2	-	68	59				
Paris ...	1002.4	57	SSW	5	r	1007.0	+4	50	-3	SW	2	-	o	+	3	61	50				
Belfort ...	1010.0	55	WSW	5	o	1016.6	+	52	-1	WSW	7	+	r	+	1	57	50				
Lyons ...	1012.4	56	S	1	o	1013.0	+	50	+1	S	1	+	o	+	-	59	49				
Nice ...	1016.8	50	-	0	o	1016.8	0	51	-2	-	0	+	o	4	-	57	48				
Perpignan ...	1015.0	51	-	0	o	1014.4	0	48	+5	NE	1	-	f	+	Trace	55	43				
Sanguinaire ...																					
Corunna (7 a.m.)	1008.0	63	SW	5	o	999.4	-7	59	-4	SSE	6	-	o	4	11	66	57				
Madrid (8 a.m.)	1017.9	57	-	0	c	1013.6	-4	45	-5	?	?	SW	c	+	-	57	45				
Lisbon (9 a.m.)	1013.3	61	SSE	4	o	1003.0	+5	63	+2	SSE	4	-	o	?	-	64	57				
Gibraltar ...																					
Rome ...																					
Malta (8 a.m.)						1021.7	+1	57	-2	-	0	-	b	0	-	67	55				
Azores (Horta, 8 a.m.)	1005.0	+	WNW	4	bc	998.3	-7	60	+5	WSW	7	+	r	6	8	61	54				
Madeira (Funchal)	1010.9	64	WSW	2	o	1011.8	+2	63	-1	WSW	1	W	o	2	8	66	61				

\* Information for these columns not usually received.

† Received too late for insertion in Charts.

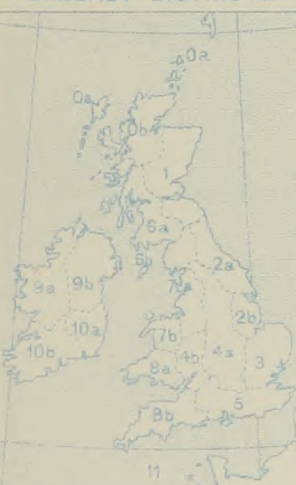
‡ The barometric change is expressed in half-millibars.





**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.

No Warnings Issued.

Western Channel and Bay 11

0 } Increasing South-Easterly wind, backing North-Easterly; unsettled, some rain or snow; cold.

1 }  
2 }  
3 } Variable North-Westerly to Westerly breezes, backing South-Westerly and freshening; cloudy to dull, some rain; mild.

4 }  
5 }

6 } Same as Nos. 0 to 2.

7 }  
8 } Increasing Southerly and South-Westerly breezes, unsettled, some rain; mild.

9 } Same as Nos. 0 to 2.

10 } Same as No. 8.

11 } South-Easterly to South-Westerly winds, strong at times; rough sea and swell; dull, some rain and fog; mild.

**FURTHER OUTLOOK.**



# SYNOPTIC CHART FOR 7 a.m., SUNDAY, 5<sup>TH</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

Another depression from the Atlantic will maintain the unsettled type of conditions.



## 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:—

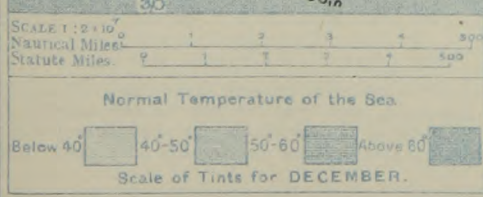
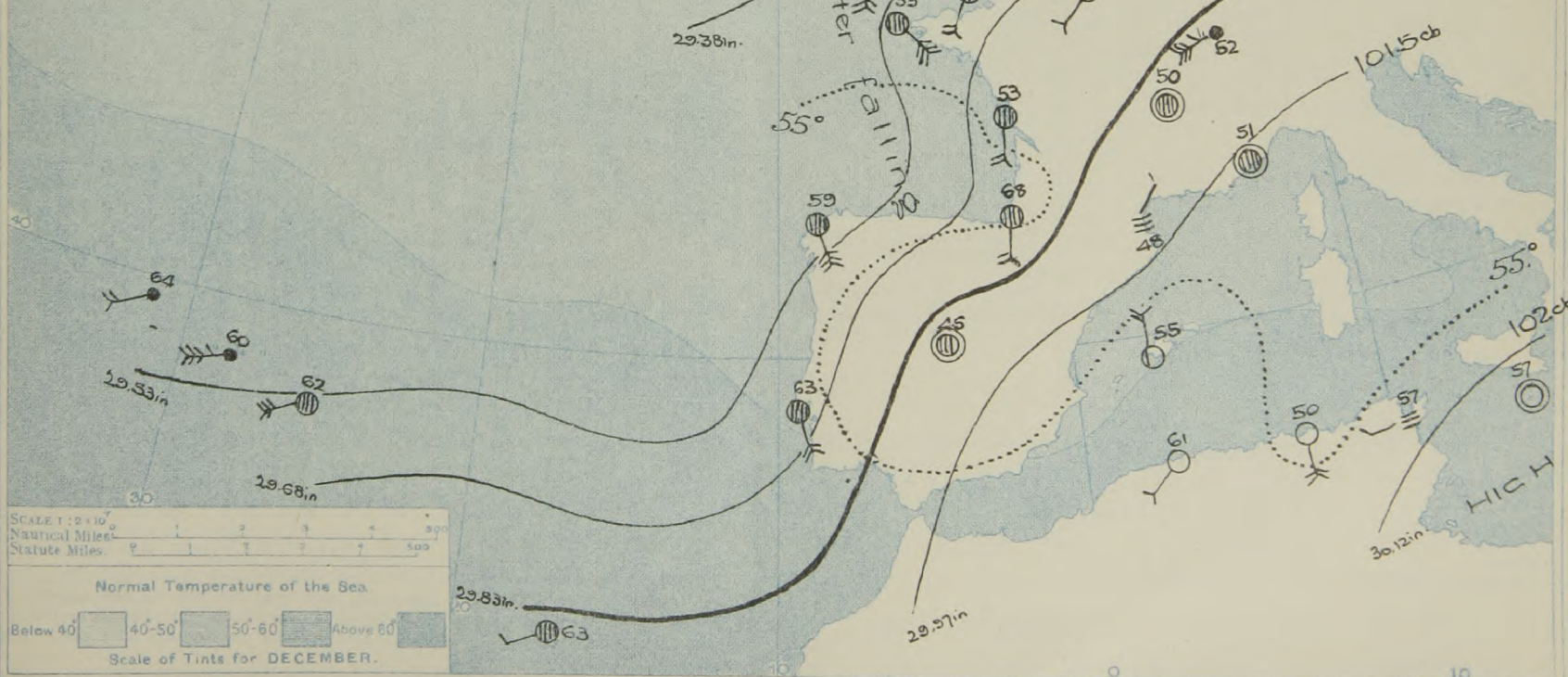
○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.

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

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

⚡, thunderstorm.

**SEA DISTURBANCE.**—rough ~~~~~ High ~~~~~.





## DAILY WEATHER REPORT.

Sunday, 5th December 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.
4 <sup>th</sup> December.....																			

4th December

## 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 ...	...	34	23	+	+	1.7	Margate ...	14	56	44	or	or	0.0
Banff ...	...	31	25	b	bc	2.6	Ramsgate ...	11	47	44	m.or	r	0.0
Carnoustie ...	...			*	*		Hastings ...	12	63	47	or f	or	0.0
St. Andrews ...	...						Bexhill-on-Sea ...						
Eng. N.E.							Eastbourne ...	16	55	48	or	org	0.0
Harrogate ...	22	39	32	org	or	0.0	Seaford ...	13	53	48	r.c	r	0.2
Skegness ...	11	43	39	md	r	0.0	Brighton ...	16	53	46	org.or	or	0.0
Eng. N.W.							Worthing ...	16	53	48	r	r	0.0
Morecambe ...							Littlehampton ...	15	53	41	r	r	0.0
Blackpool ...	14	41	37	org	or	0.0	Bognor ...	21	53	47	or	or	0.0
Southport ...	14	38	36	od	or	0.0	Southsea ...						
Midlands.							Bournemouth ...	19	55	45	f.or	or	0.0
Buxton ...	5	40	30	cr	c.cr	0.0	Weymouth ...	20	55	46	cr.o	or	0.0
Leamington Spa ...	13	54	39	op	or	0.0	Torquay ...	22	56	45	r	r	0.0
Malvern ...							Paignton ...	24	57	44	or	op	0.0
Ross-on-Wye ...	12	54	44	r	r	0.0	Falmouth ...	25	55	47	ng	r z og	0.0
Wales.							Penzance ...	21	56	48	br	or	0.0
Rhyl ...	12	44	39	r	r	0.0	Newquay ...	?	56	45	or	or	0.0
Colwyn Bay ...							Ilfracombe ...	18	52	46	r	r	0.0
Llandudno ...							Weston-super-Mare ...						
Aberystwyth ...	3	50	41	r.o.r	o.c.o	0.0							
Tenby ...	20	51	40	r	r	0.0							
England, E.													
Cromer ...													
Lowestoft ...													
Felixstowe ...	6	50	42	omp	ofr	0.0							
Walton-on-Naze ...	8	48	42	c.org	c.org	0.0							
Southend-on-Sea ...	13	52	42	or	or	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.) ...	%	%	Hr.	° F.	° F.	° F.	mm. §			
City (Bunhill Row) ...	92	90	0.0	55	40	35	6	0	or	or
Westminster (St. James's Pk.)	*	*	0.0	*	*	*	*	*	*	*
Camden Sq. (Brit. Rainfall)	87	87	0.0	57	41	36	6	ud	ud	ru. b
Hampstead (Reservoir) ...	99	90	0.0	55	39	35	8	om. or	om	*
Richmond Park	*	82	0.0	54	37	23	7	c. or	om	om
Kew. (See front page.)	*	*	0.0	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.)	92	95	0.0	86 Joules		30 Milliwatts.		9 Milliwatts.		

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

5th & 6th December 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7:41	11:44	3:46
Greenwich ...	7:50	11:51	3:52
Wick ...	8:45	12:3	3:21
Valencia ...	8:33	12:31	4:29

## NOTES ON YESTERDAY'S WEATHER.

Temperature only rose to about 32° in several Scottish localities, but exceeded 55° at some south-eastern and southern stations. Precipitation was general; 23 mm. at Pembroke and Nottingham, and 81 mm. at Spurn Head. Except in Scotland there was little or no 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.

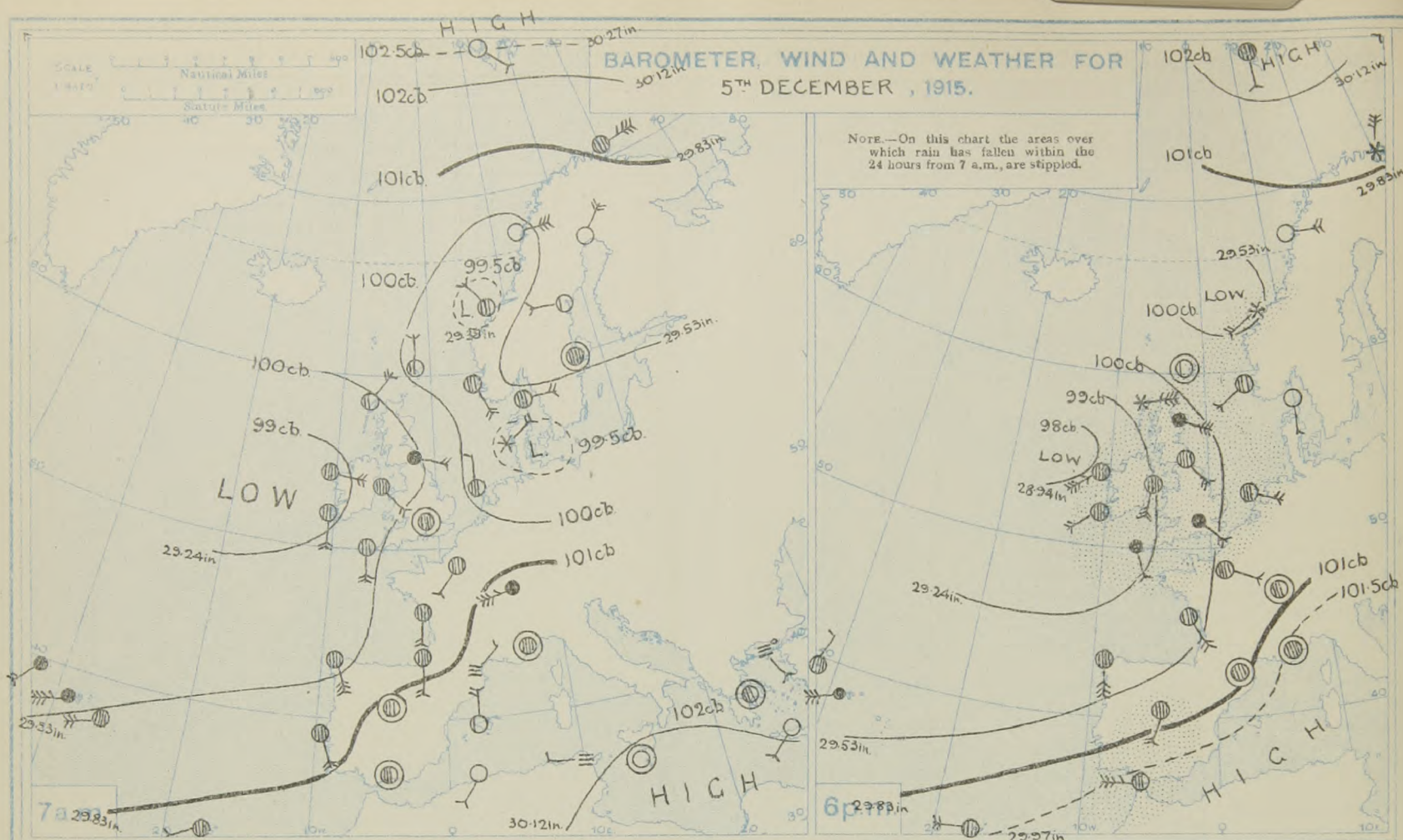
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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 340. Monday, 16<sup>th</sup> December, 1915.

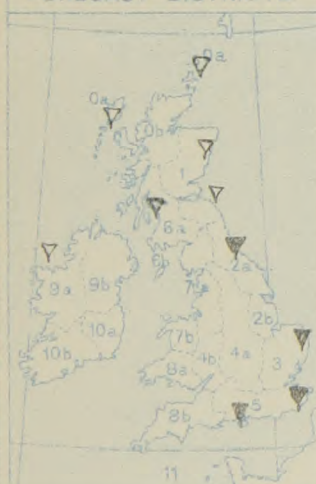
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TRMP.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 3 hours.	TRMP.		WIND.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Dirac.	Force 0-12.				Dry Bulb.	Change in 24 hours.							Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.																					
Lerwick ...	1028.0	30	-	0	bm	994.2	-7	38	+5	ESE	9	-	ogr	7	5	38	28	bc	bm	ogr.g	Hours.
Deerness ...	999.6	38	E	5	om	983.7	+	4.4	+13	ESE	7	-	om	5	8	45	31	b.bc.c	c.ow	om	0.0
Stornoway ...	992.4	35	E	7	opsy	977.7	-7	44	+11	SE	5	-	og	5	20	44	28	c.o	opsy	om	0.0
Castlebay (Barrisd.)	983.2	41	E	7	r	975.4	-5	47	+10	ESE	5	-	om	5	14	49	34	bc.rsp	rs.br	om	0.0
Glasgow ...	991.2	35	ENE	3	o	975.9	-10	39	+7	ENE	3	-	r	+	13	42	30	S	sr.sp.o	om	0.0
Eskdalemuir ...	992.6	37	N	1	orm	974.9	-13	42	+11	SE	3	-	or	+	24	42	30	osr	os.or	or	0.0
Malin Head ...	983.4	47	SSW	4	cm	975.2	-3	45	+9	S	3	-	og	3	8	48	33	omg	cmg	og	0.0
Blackod Point ...	980.4	48	SW	8	omg	976.9	-2	44	+8	WSW	3	W	omd	5	3	49	36	omg	omg	omg	0.0
Valencia ...	984.7	49	SW	3	o	979.8	0	47	-4	SW	3	-	c	4	3	52	44	sp.or.o	o	o.c	0.1
Roches Point ...	988.3	50	SW	4	o	981.3	+	44	-7	W	1	-	b	4	0.2	52	43	c.o.om	c.o.om	a.b	+
Birr Castle ...	985.2	50	S	3	c	977.9	+	44	+1	S	1	-	o	+	-	54	35	c	c	o	3.3
Donaghadee ...	987.1	48	SSW	4	om	975.6	-6	45	+5	E	3	-	omr	2	4	49	40	om	om	om.omr	+
Liverpool (Bidston)	991.8	45	NE	3	o	974.3	-9	49	+13	SE	3	SE	od	3	12	49	36	or.c	o	or	0.1
Holyhead ...	989.9	49	SSW	5	omg	974.5	-1	47	+6	W	7	-	omg	7	37	51	40	omr	op.om	o.orm	0.0
Pembroke (St. Ann's)	988.8	50	S	5	om	979.6	+5	48	-1	WNW	5	W	omg	5	31	51	46	+	+	omg	0.0
Scilly (St. Mary's)	988.4	52	SSE	3	omr	983.4	+4	50	-1	WSW	4	W	c	6	21	53	47	omd	omr	omr.c	0.0
Falmouth ...	989.6	52	SSE	3	r	984.0	+10	48	-2	SW	3	-	b	4	23	53	45	ap	or	omg.b	0.0
Jersey (St. Aubin)	994.7	52	ESE	2	omc	988.1	+	52	+2	WSW	7	-	o	4	10	52	48	bc.ogr	omg.p.o	o.c.o	0.0
Portland Bill ...	994.3	51	SE	4	omr	979.6	-6	50	0	W	8	W	c	6	7	55	47	bc.c	c.or	or.c	+
Dungeness ...	999.5	50	SE	4	or	983.5	-4	52	+9	SW	6	-	o	5	6	53	42	ap.bc	bc.or	c.or.o	+
Dover ...	998.8	48	SSE	2	r	983.5	-4	52	+9	S	6	S	r	6	8	53	40	c	c.or	om	1.1
Wick ...	986.1	39	ESE	4	m	983.3	-5	45	+22	S	4	-	r	4	3	45	?	bcm	bcm.om	omr	+
Nairn ...	994.3	33	ENE	2	S	980.1	+	40	+21	-	0	-	uro	1	3	40	18	bc.o	os	prso	0.0
Aberdeen ...	996.4	38	ESE	6	omg	981.1	-8	44	+18	SE	6	-	r	5	19	45	25	bc.sp	omg	omg	0.0
Leith ...	993.1	38	E	1	m	978.3	-7	43	+8	E	1	-	r	+	11	43	?	+	+	dhso	+
Tynemouth ...	995.0	42	SE	3	omg	977.4	-12	46	+6	SE	3	-	omr	4	10	46	39	omd	omg	omr	+
Spurn Head ...	997.7	41	SW	4	o	979.8	-9	40	-2	S	6	-	ogr	6	7	44	39	c.o	ogr	ogr	0.0
Yarmouth ...	1000.5	44	SSE	3	o	982.7	-7	46	+6	SSE	6	-	ogr	6	5	47	40	c	bc.o	omg	0.0
Clacton-on-Sea ...	999.8	45	ESE	3	o	982.6	-5	47	+4	SSE	4	SW	r	3	4	48	42	og.c	c.bc.og	ogr	1.9
Nottingham ...	996.0	44	SE	2	o	976.8	+	51	+13	S	4	S	r	+	7	51	38	om	om	or	0.0
Bath ...	995.6	50	SE	2	r	977.3	+	52	+9	SW	4	SW	r	+	7	54	42	o	or	r.o	0.0
St. Farnborough ...	996.4	48	S	3	r	979.3	-7	52	+14	S	5	-	omg	+	10	52	37	bc.c	c.or	omg	0.4
London (Kew Obs.)	997.2	48	SE	3	omr	980.1	-8	52	+10	SSW	4	-	or	+	7	53	39	a.b.m.c	c.om.orm	omg.orm	0.5
NORTHERN EUROPE.																					
Spitsbergen ...	1023.4	71.9	S	2	o	1021.3	-2.1	-6	+13	NW	1	+	b	+	+	-6	-27	GALES.  Duration and Extreme Force in British Islands.  Stornoway: 5h 18h. Squalls force 8.  Blackhead: 5h 11h - 20h. S.W. 8. Portlaoigh: 6h 6h - 7h. W. 8.  Aberdeen: Gusts W 19 metres p.s.c. 6h 6h SE 20 metres p.s.c.			
Vardö ...	1011.9	18	NNE	5	S	1013.2	0	19	-2	ENE	5	-	S	4	+	21	14				
Bodö ...	1005.0	18	E	4	b	1005.0	+1	14	-2	E	4	-	b	2	-	18	12				
Christiansund ...	999.3	34	SW	3	S	1004.0	+2	32	0	NW	5	-	S	5	7	34	32				
Skudesnaes ...	1004.8	36	SW	2	c	998.0	-5	36	+2	SE	4	-	o	4	7	36	30				
Færder (X'ianta Fjord)	1007.7	25	W	2	f	1008.4	6	21	+5	NNE	3	-	f	1	-	25	16				
The Scaw (Skagen)	1008.2	28	S	1	b	1006.3	-3	48	+10	SSE	4	-	o	4	-	50	28				
Blaavands Huk ...	1008.3	27	E	2	f	997.3	-9	34	+4	SE	5	-	r	5	Trace	34	23				
Haparanda ...																		GALES.  Duration and Extreme Force in British Islands.  Stornoway: 5h 18h. Squalls force 8.  Blackhead: 5h 11h - 20h. S.W. 8. Portlaoigh: 6h 6h - 7h. W. 8.  Aberdeen: Gusts W 19 metres p.s.c. 6h 6h SE 20 metres p.s.c.			
Hernösand ...																					
Stockholm ...																					
Wisby ...																					
Karlstad ...																					
Petrograd (O.A.M. G.M.T.)																		FRANCE, &c.			
The Helder ...	1004.4	39	ESE	3	c	988.4	-7	46	+5	SSE	3	-	r	2	3	46	39				
C. Gris Nez ...	998.0	50	SE	4	r	985.6	-6	57	+11	S	6	+	o	5	4	?	?				
La Hève ...	997.2	50	SE	3	bc	?	+	51	+4	WSW	5	+	r	5	7	54	46				
Ushant ...																					
Brest (St. Mathieu)	991.1	52	SE	4	o	989.9	+6	52	-1	SW	4	+	c	3	10	66	50				
Rochefort (Ile d'Aix)	998.6	54	SSE	5	o	999.5	+5	52	-1	WSW	4	+	o	+	-	55	52				
Biarritz ...																		FRANCE, &c.			
Paris ...	1000.6	54	ESE	2	o	993.2	0	57	+7	S	7	-	o	+	Trace	59	48				
Belfort ...	1006.6	52	-	0	c	1004.0	+	48	-4	WSW	2	+	c	+	-	58	43				
Lyons ...																					
Nice ...	1016.7	54	-	0	o	1014.4	-2	52	+1	-	0	+	o	3	1	57	50				
Perpignan ...	1008.8	46	-	0	o	1006.1	+5	50	+2	N	3	-	b	+	-	52	46				
Sanguinaire ...																		SOUTHERN EUROPE.			
Corunna (7 a.m.)	990.7	61	S	6	o	993.0	+4	59	0	WSW	7	-	o	5	-	63	52				
Madrid (8 a.m.)	1006.6	50	SSW	3	o	1011.7	0	50	+5	SSW	3	SW	o	+	2	55	48				
Lisbon (9 a.m.)																					
Gibraltar ...	1016.6	64	W	7	c	1018.6	+	62	-	W	6	+	c	5	1	67	56				
Rome ...																		SOUTHERN EUROPE.			
Malta (8 a.m.)						1021.2	+1	57	0	SW	1	-	c	0	-	64	55				
Azores (Horta, 8 a.m.)	996.3	+	WSW	6	r	998.6	0	63	+3	WSW	7	+	3	6	10	64	59				
Madeira (Funchal)	1004.4	64	W	4	o	1016.0	+1	64	+1	?	?	W	0	?	-	66	63				





**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 at 2.10 p.m. & evening of 5<sup>th</sup>, also at 8.30 a.m. of 6<sup>th</sup>.

Western Channel and Bay 11

- |    |  |
|----|--|
| 0  | Squally South-Easterly to North-Easterly wind, strong to a gale at times; rainy; mild.   |
| 1  |  |
| 2  | Squally Southerly wind, strong to a gale,  |
| 3  | veering Westerly, moderating later; rainy, fair intervals  |
| 4  | later; mild.   |
| 5  |  |
| 6  | Same as Nos. 0 and 1.  |
| 7  | Squally Westerly to Northerly wind, strong to a gale at times, moderating and becoming variable in direction; rainy, fairer later; mild. |
| 8  | Wind between South-West and North-West, fresh to strong and squally at times; changeable, some rain; mild.                               |
| 9  | Light breezes between West and South, freshening   |
| 10 | again later; changeable, some rain; mild.  |
| 11 | Squally South-Westerly winds, strong to a gale at times; high sea; unsettled, some rain and fog; mild.                                   |

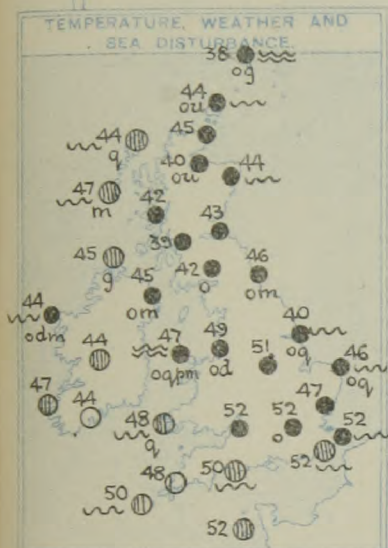
**FURTHER OUTLOOK.**



DECEMBER, 1915.


GENERAL INFERENCE.

The pressure distribution continues of a very unsettled type and further depressions are likely to arrive from the Atlantic.



EXPLANATION.

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

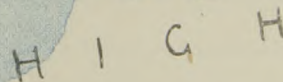
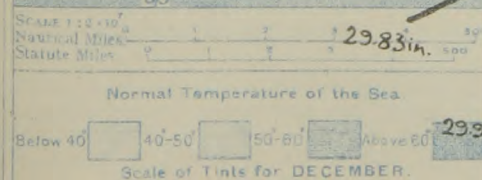
**WIND.**—Direction is shown by arrows flying with the wind.  
Force, on the scale 0-12, is indicated by the number of feathers. Calm 

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

**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky.      ◐ sky  $\frac{1}{2}$  clouded.      ◑ sky  $\frac{1}{2}$  clouded.  
 ◒ sky  $\frac{3}{4}$  clouded.      ◓ overcast sky.      ☔ rain falling.

\*snow. ▲ hail. ≡ fog. ≡<sup>o</sup> mist. T, 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.	
	Benson Nov 30 11.50	S. Farnborough Dec 2 11.40	Benson Dec 2 10.50	S. Farnborough Dec 2 12.25	Benson Dec 2 10.50	S. Farnborough Dec 2 12.25	Benson Dec 2 10.50	S. Farnborough Dec 2 12.25	Benson Dec 2 10.50	S. Farnborough Dec 2 12.25	Benson Dec 2 10.50	S. Farnborough Dec 2 12.25	Benson Dec 2 10.50	S. Farnborough Dec 2 12.25	Benson Dec 2 10.50	S. Farnborough Dec 2 12.25	Benson Dec 2 10.50	S. Farnborough Dec 2 12.25	Benson Dec 2 10.50	S. Farnborough Dec 2 12.25
5																				
4																				
3																				
2																				
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. 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 ...	...	44	22	5.0	7.0	0.0	Margate ...	1	49	42	bc	c.0	0.6
Banff ...	3	35	16	c.0	0.8	0.0	Ramsgate ...	6	47	41	3	3	1.0
Carnoustie ...	...	...	...	...	...	...	Hastings ...	4	54	41	bc.0	c.0	1.1
St. Andrews ...	...	...	...	...	...	...	Bexhill-on-Sea ...	...	...	...	...	...	...
England, N.E.							Eastbourne ...	1	51	42	bc	c.0	0.5
Harrogate ...	15	44	33	0.0	0	0.0	Seaford ...	...	...	...	...	...	...
Skegness ...	14	43	39	0.0	c.0	0.4	Brighton ...	11	50	42	bc.0	0.0	0.2
England, N.W.							Worthing ...	7	51	39	c	0	0.3
Morecambe ...	...	...	...	...	...	...	Littlehampton ...	5	51	40	bc.0	0	0.8
Blackpool ...	16	45	36	0.0	0.0	0.0	Bognor ...	6	51	41	c.0	0	0.9
Southport ...	14	44	36	0	0.0	0.0	Southsea ...	5	51	41	bc	0	0.7
Midlands.							Bournemouth ...	8	51	43	0.0	0	0.2
Buxton ...	15	42	33	c.0	c.0	0.0	Weymouth ...	2	52	47	bc.0	0.0	0.1
Leamington Spa ...	3	47	38	0	0	0.0	Torquay ...	7	52	46	0	0	0.0
Malvern ...	3	48	37	0	0	0.0	Paignton ...	...	...	...	...	...	...
Ross-on-Wye ...	1	53	37	0.0	0.0	0.0	Falmouth ...	9	53	45	0	0	0.0
Wales.							Penzance ...	...	...	...	...	...	...
Rhyl ...	10	48	35	bc	c	0.8	Newquay ...	3	53	45	0	0.0	0.0
Colwyn Bay ...	13	60	37	c	c	0.0	Ilfracombe ...	3	54	45	0	0.0	0.0
Llandudno ...	...	...	...	...	...	...	Weston-super-Mare ...	3	52	41	bc.0	0	0.5
Aberystwyth ...	14	51	40	0.0	c.0	0.5							
Tenby ...	...	...	...	...	...	...							
England, S.W.													
Cromer ...	...	...	...	...	...	...							
Lowestoft ...	...	...	...	...	...	...							
Felixstowe ...	2	45	41	0.0	0.0	2.2							
Walton-on-Naze ...	2	53	41	c.0	0.0	1.5							
Southend-on-Sea ...	...	...	...	...	...	2.5							

## LONDON OBSERVATIONS.

STATIONS.	HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.		Rain- fall.	WEATHER.		
	3 p.m. Yester- day.	4 a.m. To-day.		In Screen.	Min. on Grass.		Fore- noon.	After- noon.	Night.
Greenwich (Royal Obs.) ...	82	84	2.2	52	40	35	7	c	or
City (Bunhill Row) ...	x	x	0.3	x	x	x	x	x	x
Westminster (St. James's Pk.)	86	84	0.5	55	42	37	6	m	or
Camden Sq. (Brit. Rainfall)	x	83	0.0	53	41	37	7	x	x
Hampstead (Reservoir) ...	x	90	0.0	51	45	29	6	or	or
Richmond Park ...	x	x	1.2						
Kew. (See front page.)									
(Greenwich and Camden Square air temperatures are in Glaisher screens.)									
S. Kensington (Roof of M.O.)	84	83	0.1	197	Joules	6.6 Milliwatts.	1.8	Milliwatts.	

## Additional Observations for Yesterday.

STATIONS.	Rain- fall.	TEMPERATURE.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	Sun- shine for Yester- day.
		Max.	Min.					
Dublin to 4 p.m.	2	52	38	25	0.0	bc	bc	*
Darwen to 9 p.m.								
Manchester "								
Birmingham "								
Oxford to 8 p.m.								
Teignmouth to 9,	9	53	46	39	bc.0	c.0	0.0	0.0
Plymouth "	8	53	47	2	0.0	0	0.0	0.0
S. Kensington (Museum Grounds to 6 p.m.)	2	56	42	34	bc	0.0	0.0	*

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

December 6 <sup>th</sup> 1915.	Sunrise.	Noon.	Sunset.
Yarmouth ...	7.49	11.44	3.39
Greenwich ...	7.51	11.45	3.39
Wick ...	7.51	11.51	3.51
Valencia ...	6.47	12.3	3.20

## NOTES ON YESTERDAY'S WEATHER.

The day was cold and frosty in Scotland, very mild elsewhere. Rain was general and in many places heavy, 37 mm. at Holyhead. As a rule there was no sunshine. A gale occurred locally on the 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.

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## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 341.

Tuesday  
7th December 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.	TEMP.		WIND.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Dir.	Force 0-12.			Change in 24 hours.	Dry Bulb.							Change in 24 hours.	Dir.	Force 0-12.	Max.	Min.	Morning.	
Lerwick ...	981.4	37	ESE	10	org	977.2	+2	36	-1	N	4	c	4	31	39	34	org	org	org	Hour.	
Deerness ...	971.5	38	E	7	oru	977.6	-	36	-8	SW	3	? b	5	24	45	35	ru	oru	oru	0.0	
Stornoway ...	972.5	29	SE	2	or	972.2	-7	41	-3	S	7	org	6	21	45	34	o.org	or	o.org	0.0	
Castlebay (Barra Isd.)	973.8	45	SW	4	op	971.6	-3	46	-1	SW	6	bcp	6	2	48	41	om.o	op	op.bcp	0.0	
Glasgow ...	977.4	42	WSW	2	ogm	983.4	+1	40	+1	SSW	4	c	4	5	43	38	r.odpm	o.c.odp	c.b.bcg	0.0	
Esksdalemuir ...	978.7	39	SW	5	bc	986.6	+2	38	-4	SSW	3	o	8	44	32	or.org	o.c.bc	bc.bcg	0.0		
Malin Head ...	976.0	42	SW	4	cm	975.5	-1	40	-5	SW	8	omg	6	1	47	37	cv	cm	cmg	0.0	
Blackod Point ...	979.2	42	WSW	4	cm	981.4	+2	44	0	WSW	8	omg	6	1	44	41	bc	bc	omg	0.0	
Valencia ...	984.2	46	W	4	bc	990.9	0	43	-4	SW	4	b	4	10	49	41	clh	bc	bc	0.2	
Roche's Point ...	983.6	43	W	4	b	992.7	-	45	+1	W	3	c	4	2	50	41	cl	cgp	b.b.c	1.5	
Birr Castle ...	979.3	43	W	2	r	983.5	-	40	-4	SW	3	c	3	1	46	37	c	c.od	cl	1.5	
Donaghadee ...	978.6	41	SW	3	bcu	984.8	+1	38	-7	SW	5	bcg	3	2	46	36	cm	bcu	bcu	1.6	
Liverpool (Bidston)	981.7	45	SW	3	bc	991.7	+1	41	-8	SW	4	b	3	7	49	39	op	bc.op	or.b	2.2	
Holyhead ...	979.3	47	SW	4	opm	990.2	+1	45	-2	WSW	5	bc	4	6	50	41	op.c	c.b.c	bc.bcg	3.3	
Pembroke (St. Ann's)	982.6	50	SW	7	bcg	994.1	+1	49	+1	WSW	6	bcg	6	2	52	40	cgp	cgp	bcg	4.1	
Scilly (St. Mary's)	989.3	49	W	8	bcg	996.9	-1	51	+1	SW	5	bcg	6	2	52	45	cgp	cgp	bcg	3.0	
Falmouth ...	990.1	47	SSW	7	bcg	998.2	-2	50	+2	SSW	5	o	6	2	52	45	bcg	bcg	bcg	1.0	
Jersey (St. Aubin)	993.3	52	W	6	c	1003.4	-	50	-2	SSW	5	o	5	6	53	49	op.or	nc	bcg	1.0	
Portland Bill ...	988.7	50	WSW	6	bcg	999.3	+2	50	0	SW	5	c	5	3	52	48	cgp	bcg	bcg	1.0	
Dungeness ...	989.6	49	SW	5	bcg	1000.3	+5	49	-3	SW	6	bcg	5	11	53	47	org	org	bcg	1.5	
Dover ...	990.5	46	SW	5	bc	1002.2	+3	48	-4	SW	4	bc	6	6	51	45	org	org	bcg	1.5	
Wick ...	969.3	43	E	4	r	977.9	+3	38	-7	SSW	3	b	4	19	45	34	omr	omr	omr	0.0	
Nairn ...	971.8	36	E	1	ou	978.1	-	37	-3	W	1	og	1	6	40	34	ro	ro	ro	0.0	
Aberdeen ...	972.0	41	SW	4	bc	981.9	+1	37	-7	SW	1	b	3	14	46	37	org	or.c.bc	bc.b	0.0	
Leith ...	976.7	44	W	2	c	983.1	+1	40	-3	W	2	b	6	45	38	38	r	og.c	c.b.c	0.0	
Tynemouth ...	978.6	44	WSW	2	bm	987.9	+7	42	-4	WSW	2	bm	4	4	47	39	ofr	bm	bm	0.0	
Spurn Head ...	983.8	44	W	4	bc	992.5	+4	41	+1	WSW	5	bcg	5	4	48	40	org	org	org	0.9	
Yarmouth ...	982.3	49	W	5	omr	997.4	+5	43	-3	WSW	3	b	2	2	52	42	bcg	omr	bcg	1.6	
Clacton-on-Sea ...	988.6	47	SW	4	o	993.8	+6	43	-4	WSW	3	W	2	3	51	43	og.bc	bcg	og.bc	3.0	
Nottingham ...	984.0	48	SW	4	c	994.4	-	43	-8	SW	5	SW	2	2	52	40	r.o.c	op	c.b	1.9	
Bath ...	987.4	49	SW	3	b	997.8	-	46	-6	SW	4	W	3	3	54	44	r.o.c	r.o.c	bcg	2.8	
St. Farnborough ...	989.0	48	SW	4	b	999.3	+3	43	-9	SW	3	SW	2	15	52	42	obc	bc	bc	3.5	
London (Kew Obs.)	988.5	48	SW	3	b	1000.4	+3	45	-7	SW	4	SW	2	13	53	44	org	org	bcg	2.6	
Spitsbergen ...	1021.1	-27	S	2	b	1024.7	-1	-36	-30	S	2	b	2	-	-6	-40	-	-	-	-	
Vardö ...	1014.7	19	E	1	o	1014.1	5	19	0	E	4	f	3	-	19	14	-	-	-	-	
Bodö ...	1007.8	14	E	4	b	1001.7	-3	18	+4	E	4	f	2	-	18	14	-	-	-	-	
Christiansund ...	995.0	34	E	5	b	984.3	-1	36	+4	SE	4	o	5	-	36	28	-	-	-	-	
Skudesnaes ...	980.3	37	ESE	9	o	981.3	0	39	+3	S	8	r	6	8	39	30	-	-	-	-	
Færder (X'ania Fjord)	995.3	30	NE	6	3	985.3	+3	27	+6	NW	6	c	3	7	30	21	-	-	-	-	
The Scaw (Skagen)	990.6	32	ESE	6	3	985.5	+1	37	+11	WSW	4	f	4	8	39	32	-	-	-	-	
Blaavands Huk ...	983.8	36	SW	6	r	988.7	+3	41	+7	SW	4	o	5	18	43	32	-	-	-	-	
Haparanda ...	1015.9	7	N	2	o	1014.6	0	-6	-11	NNE	2	o	2	-	9	-6	-	-	-	-	
Hernösand ...	1012.4	21	NE	4	o	1004.3	-3	21	+12	E	6	o	2	-	25	9	-	-	-	-	
Stockholm ...	1008.0	27	E	2	o	?	-7	30	+12	SE	6	o	2	-	30	18	-	-	-	-	
Wisby ...	1005.9	32	E	2	S	991.7	-5	36	+8	S	2	f	2	-	36	27	-	-	-	-	
Karlstad ...	1002.4	23	E	2	o	985.0	-8	32	+4	ESE	4	r	2	-	32	19	-	-	-	-	
Petrograd ...	(S.A.M. G.M.T.)																				
The Helder ...	989.9	46	SSW	5	o	997.0	+6	45	-1	SW	6	b	6	3	54	46	-	-	-	-	
C. Gris Nez ...	990.7	49	SW	5	b	1020.0	+3	48	-9	SW	6	o	6	18	57	45	-	-	-	-	
La Hève ...	994.9	46	SSW	4	r	1005.6	-	46	-5	SW	5	o	5	5	54	43	-	-	-	-	
Ushant ...																	-	-	-	-	
Brest (St. Mathieu)	997.2	51	WSW	5	bc	1002.7	-2	52	0	SSW	4	c	4	-	55	50	-	-	-	-	
Rochefort (Ile d'Aix)	1003.4	52	WSW	6	c	1010.6	-1	50	-2	S	4	o	2	-	57	48	-	-	-	-	
Biarritz ...	1009.0	57	SSW	5	o	1011.1	-3	59	-	S	3	c	3	3	64	54	-	-	-	-	
Paris ...	997.2	54	SSW	5	o	1010.0	+3	46	-9	SSW	3	o	2	-	57	45	-	-	-	-	
Belfort ...	1003.5	59	WSW	7	o	1015.3	-	45	-3	WSW	4	c	2	-	59	41	-	-	-	-	
Lyon ...	1006.0	58	S	6	o	1015.7	-	49	-8	WSW	1	b	2	-	61	47	-	-	-	-	
Nice ...	1014.1	52	-	0	f	1015.4	+1	50	-2	-	0	b	3	-	55	48	-	-	-	-	
Perpignan ...	1008.0	52	-	0	o	1016.3	+3	45	-5	W	2	bc	2	-	59	41	-	-	-	-	
Sanguinaire ...	*	64	S	3	m	*	-	59	-4	S	4	m	3	-	66	54	-	-	-	-	
Corunna (7 a.m.)	1007.7	55	W	5	b	1008.0	+1	61	+2	SW	4	b	4	4	63	54	-	-	-	-	
Madrid (8 a.m.)	1013.7	54	SSW	2	r	1019.7	+2	52	+2	SSW	1	o	3	-	55	50	-	-	-	-	
Lisbon (9 a.m.)																	-	-	-	-	
Gibraltar ...	1021.3	62	W	2	b	1021.3	-	59	-3	SE	3	bc	2	-	68	53	-	-	-	-	
Rome ...																	-	-	-	-	
Malta (8 a.m.)	*	*	*	*	*	1022.7	+1	59	+2	W	3	b	1	-	66	57	-	-	-	-	
Azores (Moria 8 a.m.)	999.3	*	SW	5	c												-	-	-	-	
Madeira (Funchal)	1016.4	66	W	3	o	1017.3	0	64	0	W	5	W	3	22	68	63	-	-	-	-	

South Farnborough: - 7 a.m.

Pilot Balloon Ascent: -

Wind at 1800 metres WSW 50 miles per hour  
500 " " SW by W 40

## GALES.

Duration and Extreme Force  
in British Islands.

Lerwick - 6th 7h - 7th 3h.

SE 8.

6th 15h ESE 10.

Malin Head - 7th 4h - 7h.

SW 8.

Holyhead - 6th 7 a.m.

Gust WNW 18 m.p.s.

Pembroke - 6th 19-23h.

WSW 8.

Ext. WSW 9 at 20h.

Scilly - 6th.

Squalls force 9 14h-15h.

20h-22h. WSW 8.

Gust 25 m.p.s. at 21h.

Jersey - 6th 22h - after midnight.

W 8.

Portland - 6th 7h-9h.

W 8.

21h-3h (7h) W 8.

Ext. WSW 9 at 24.

Dungeness - 6th 8h-12h.

SW 8.

Ext. SW 10 at 10h.

23h-4h (7h) SW 8.

Ext. SW 9 at 24.

Dover - 6th 8h-11h.

S 8.

Ext. S 9 at 9h.

Aberdeen - 6th 11h.

Gusts 21 m.p.s.

Spurn Head - 12h.

WSW 25 m.p.s.

Yarmouth - 6th. 10h-14h.

SW 8.

Nottingham - 6th 23h - 7th 1h.

SW 8.

Kew - 6th 9h-10.30h.

SW 8.

Gusts 9-18h WSW 26 m.p.s.

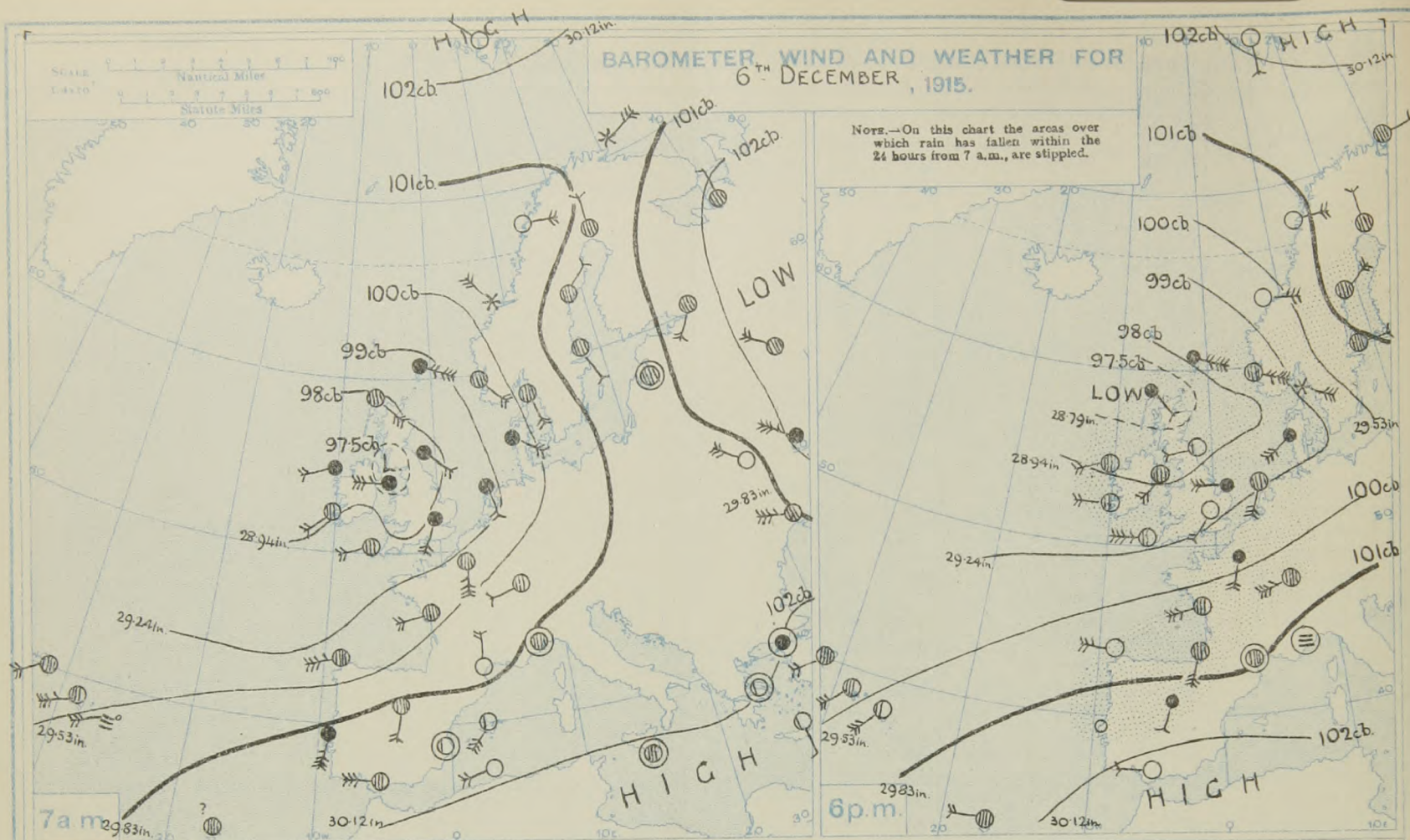
10-12h WSW 23 m.p.s.

\* Information for these columns not usually received.

† Received too late for insertion in Charts.

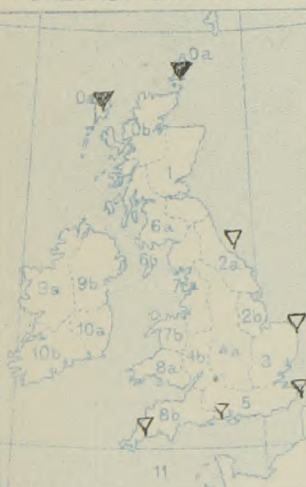
‡ The barometric change is expressed in half-millibars.





**FORECASTS FOR THE 24 HOURS NOON 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.

**Cones Hoisted**

at 8.30 a.m. and 2.30 p.m.

Yesterday & at 9 a.m. Today

Western Channel and Bay

- |    |   |   |
|----|---|---|
| 0  | a | Strong Southerly winds or gales, veering South-Westerly; weather dull with rain; rather mild.                 |
| 1  | b |   |
| 2  | a | Fresh South-Westerly winds; fair but showery; temperature about normal.                                       |
| 3  | b |   |
| 4  | a | Fresh South-Westerly winds, backing Southerly later; fair with showers, then becoming dull; temperature mild. |
| 5  | b |   |
| 6  | a | Fresh South-Westerly or Westerly winds; weather fair, rain at times; temperature about the normal.            |
| 7  | b |   |
| 8  | a | Fresh South-Westerly winds, backing Southerly later; dull, some rain; temperature about normal.               |
| 9  | b |   |
| 10 | a | Moderate Westerly or South-Westerly winds; fair; temperature about normal.                                    |
| 11 | b |   |
|    |   | Fresh Southerly or South-Westerly winds; dull, some rain; sea rough.  |

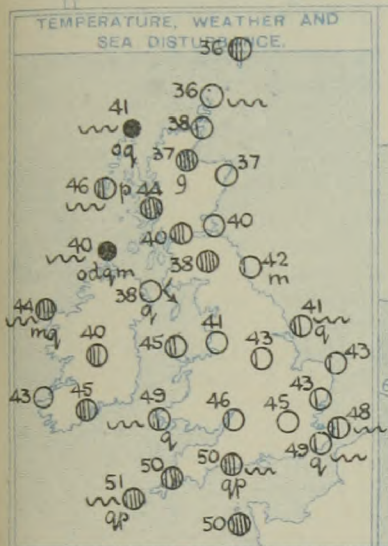
**FURTHER OUTLOOK.**



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

## GENERAL INFERENCE.

The depression off the Hebrides will move to the north-east and a secondary which is approaching the mouth of the Channel will cause less fine weather in the South.



## 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.

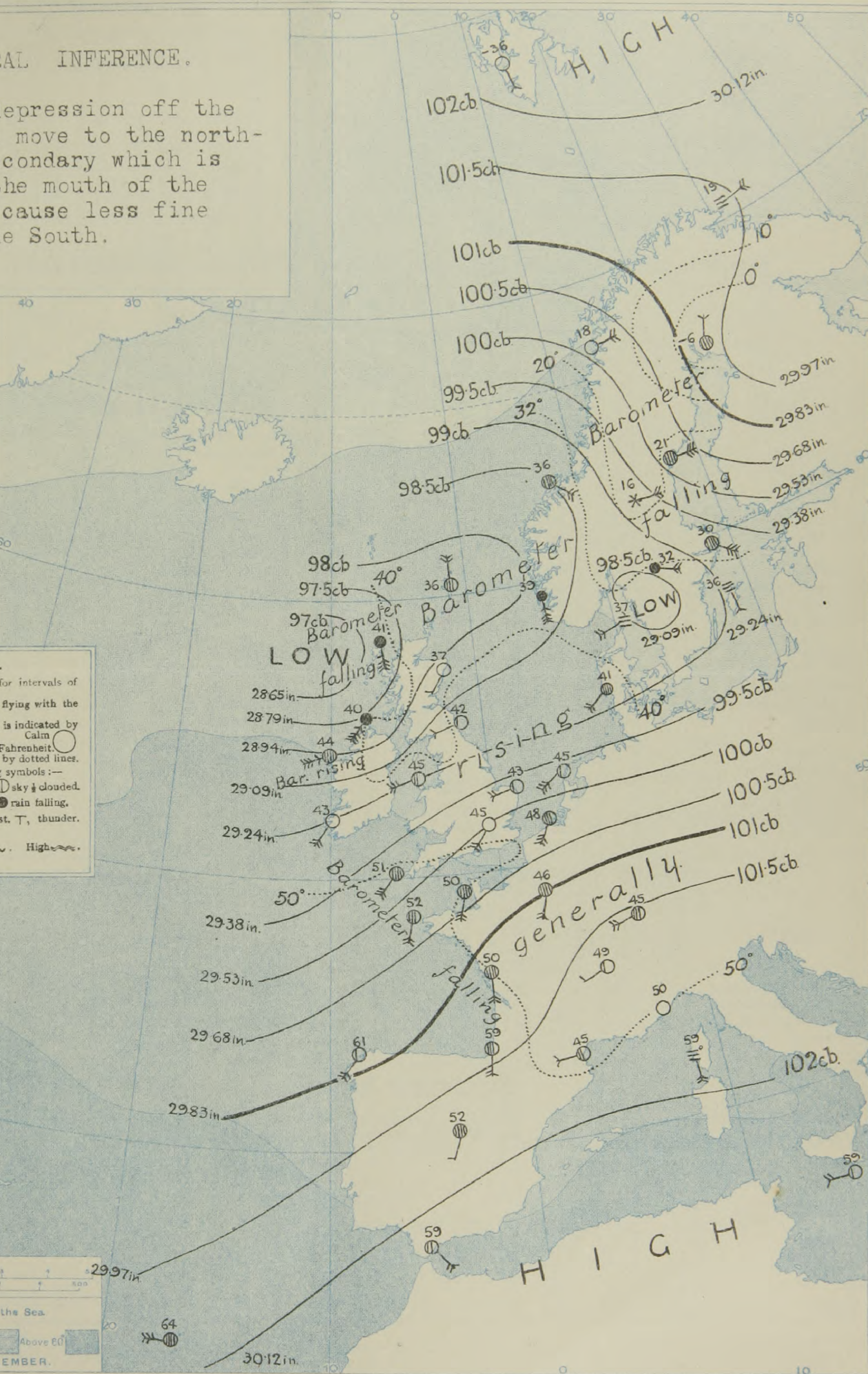
**TEMPERATURE.**—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

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

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

K, thunderstorm.

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





## DAILY WEATHER REPORT.

Tuesday, 7th December, 1915.

REPORTS  
FOR  
YESTERDAY.

6th December 1915.

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. Direc.	Force 0-12.	Weather.	Barometer. Milli- bars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb. °F.	Change in 24 hours. °F.	Wind. Direc.	Force 0-12.	Dirac. of Upper Cloud.	Weather.	Sea 0-8.				
Haparanda ...	1008.3	5	N	2	0	1010.7	+3	5	-4	N	2	-	0	+	-	10	0	
Hernösand ...	1008.7	-8	NW	2	0	1012.7	+2	9	+15	NW	2	-	0	+	-	9	-8	
Stockholm ...	1007.4	12	NW	2	0	1011.3	0	18	+8	SSW	2	-	0	+	-	18	0	
Wibby ...	1007.9	23	NNE	4	0	1012.8	0	28	+5	W	2	-	0	+	-	30	21	
Karlstad ...	1008.6	16	-	0	0	1010.3	+1	28	+18	-	0	-	0	+	-	28	7	
Petrograd ...	990.7	1	NW	3	0	1006.4	+5	7	-	SW	3	-	0	+	-	14	0	
Lyons ...	1006.6	59	SW	8	0	1004.2	+	57	-7	SW	6	-	0	+	-	59	56	
Sanguinaria ...	*	61	E	3	0	*	+	55	-	E	3	-	0	+	-	63	46	
Lisboa ...	1005.1	57	W	6	0	1008.3	*	61	-2	SSW	7	-	0	+	-	61	59	

## 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.													
Oban ...	3	45	38	cp	cp	0.0	Tunbridge Wells ...						
Banff ...	17	45	35	r	r.o.	0.0	Margate ...	6	63	43			1.8
Carnoustie ...							Ramsgate ...	8	51	43	r.b.c.r	r	2.3
St. Andrews ...	28	46	38	*	*	0.0	Hastings ...	15	53	47	or.b.c	or.b.c.	1.5
England, N.E.							Bexhill-on-Sea ...						
Harrogate ...	22	48	40	r.o	a.c.b.c.b	0.7	Eastbourne ...	18	54	48	bc.	bc.or	1.5
Skegness ...	6	51	41	r.o.c	og.b.c	1.1	Seaford ...	6	52	48	c	r	1.6
England, N.W.							Brighton ...	9	52	47	a.p.o.c	o.o.r.c	1.1
Morecambe ...	2	50	43	r.o	bc.or	0.3	Worthing ...	13	51	48	cr	r	0.7
Blackpool ...	23	50	44	or.g	c.b.c.or	1.9	Littlehampton ...	9	52	47	bc.or	r.o	0.8
Southport ...	7	47	44	r.o.c	bc.o	1.3	Bognor ...	12	52	48	c.or	p.r	1.0
Midlands.							Southsea ...	11	52	44	or	or	0.9
Buxton ...	19	48	33	cr.b	cb	0.1	Bournemouth ...	8	52	47	bc.or	b.	2.5
Leamington Spa ...	7	50	39	or.c.b.c.	s.or.	1.0	England, S.E.						
Malvern ...	15	50	45	bc	bc	1.3	Weymouth ...	12	53	48	bc.or	r.b.c.b	0.0
Ross-on-Wye ...	15	52	46	bc	c.or	1.3	Torquay ...	10	55	47	bcp	bcp	1.3
Wales.							Paignton ...						
Rhyl ...	5	51	43	p.o.c	bc.c.o	2.5	Falmouth ...	19	52	45	c.p.r	b.b.c.p	3.0
Colwyn Bay ...	13	49	45	r.b.c.	bcp.	1.0	Penzance ...	15	53	47	or.b.c	bcp.r	3.0
Llandudno ...							Newquay ...	*	52	45	b	b.b.c.g	3.1
Aberystwyth ...	11	48	42	r.or.	c.o.	1.3	Ilfracombe ...	12	51	45	ap.c	ap.c.	0.5
Tenby ...	20	51	44	bc.or	r	2.4	Weston-super-Mare ...	4	51	45	bcp.b.c.	bc.c.	0.6
England, S.W.													
Cromer ...													
Lowestoft ...	11	52	40	c.c	c.	0.3							
Felixstowe ...	9	51	44	bcp.	bc.or.	2.7							
Walton-on-Naze ...	7	52	42	c.b.c	bc.or.b.c	3.2							
Southend-on-Sea ...	5	51	41	q.c.b.c.b	bcp.og	2.7							

## 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.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 89	% 82	Hr. 2.7	° F. 53	° F. 44	° F. 36	mm. 4	3.3c	c.o.r.o	3.3g
City (Banhill Row) ...	*	*	2.7	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	94	85	2.8	55	45	37	9	ur	or.b	or.be
Camden Sq. (Brit. Rainfall)	83	81	2.7	53	44	38	13	c.3c	c.or	*
Hampstead (Reservoir) ...	*	85	3.0	51	41	29	15	3.or	bc	bc
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.)	85	84	2.8	21.2 Joules		7.3 Milliwatts.		19 Milliwatts.		

## Additional Observations for Yesterday.

STATIONS.	Rain- fall. mm.	TEMPERATURE.		WEATHER.		Sun- shine for Yester- day.
		In Screen.	Night Min. on Grass.	Night.	Fore- noon.	
		Max.	Min.		After- noon.	
Dublin to 4 p.m.						
Darwen to 9 p.m.	37	48	40	39	or.r	or.r
Manchester "						
Birmingham "						
Oxford to 8 p.m.	*					
Teignmouth to 9 "	9	54	48	45	d.r.	bc.p
Plymouth "						
S. Kensington (Museum Grounds to 6 p.m.)	14	54	42	36	or.b.c	or.b.c

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

7th Dec. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.51	11.45	3.39
Greenwich ...	7.52	11.45	3.38
Wick ...	7.54	11.52	3.50
Valencia ...	8.50	12.44	3.18

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to between 50° and 55° in the south and south-east of England. Rain fell in all districts, up to 31 mm. at Lerwick, but in the west and south there were bright intervals. Aurora was observed at many stations last night.

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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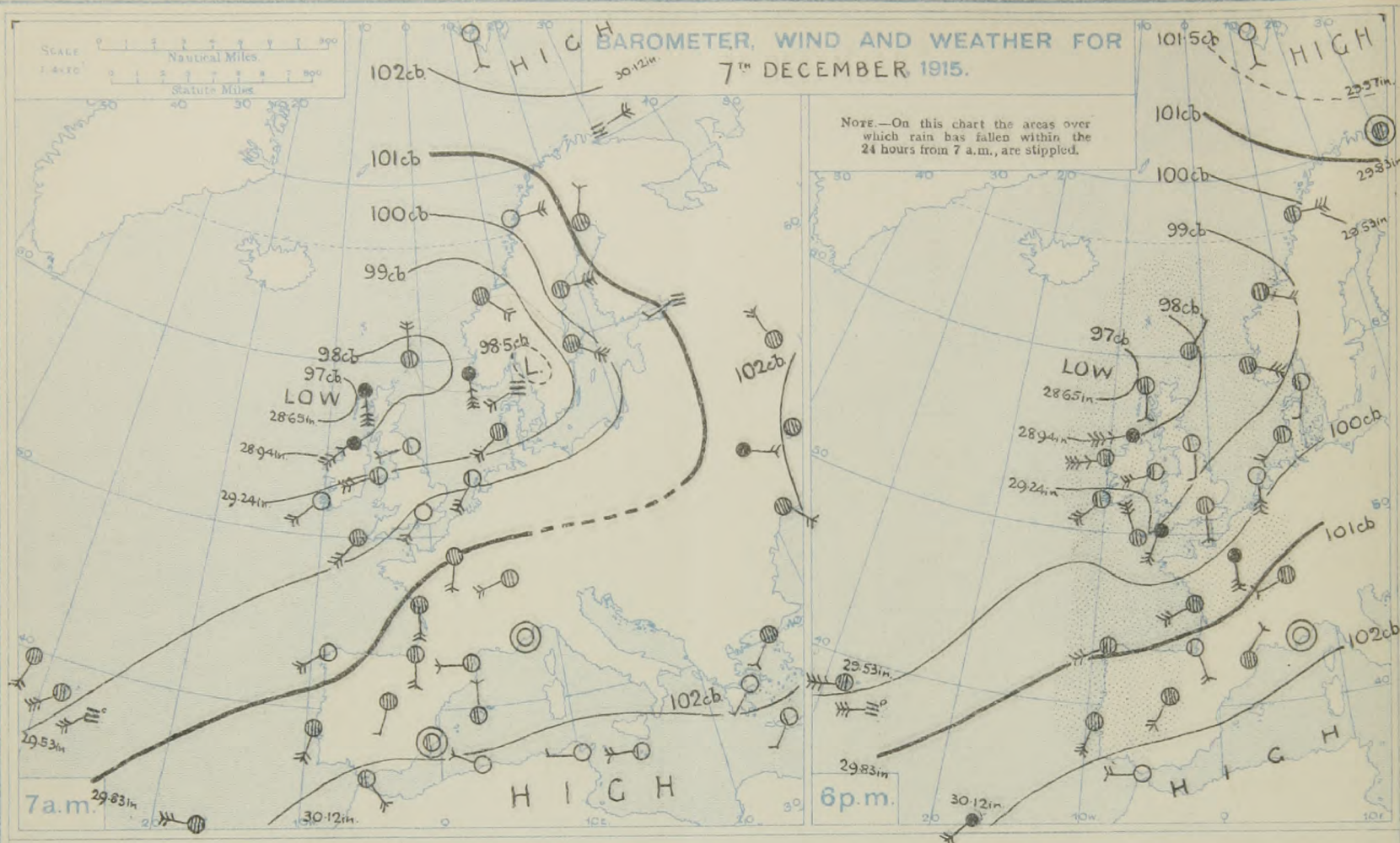


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 342

WEDNESDAY,  
18<sup>th</sup> DECEMBER, 1915

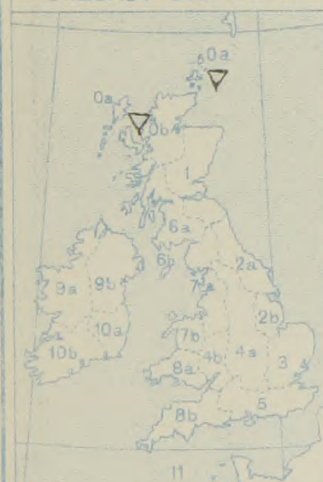
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Dirac. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Dirac.	Force 0-12.		Milli- bars at M.S.L.	Change in 3 hours.	Dry Bulb. °F.	Change in 24 hours. °F.	Dirac.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
Lerwick ...	979.1	38	NW	1	om	982.2	+2	38	+2	N	5	-	o	4	2.0	33	34	bc	bc, om, d	on	Hours.
Deerness ...	974.6	41	SSW	6	qf	?	?	38	+2	N	6	-	b, c, p	5	12	43	38	b, bc, o	qf	or, c, b, c, p	0.0
Stornoway ...	971.6	38	S	2	cf	991.4	+8	36	-5	NNW	7	-	b, c, q	6	13	43	35	qf, c	op	or, b, c, q	0.0
Castlebay (Barra Isd.)	973.2	45	W	4	bc	994.1	+8	40	-6	NW	4	NW	bc	4	9	47	36	b, c, h, op	op, bc	bc	0.0
Glasgow ...	982.1	41	SSW	4	bc	988.6	+9	38	-2	W	3	SW	o	1	44	38	qf, bc, m	cm	qf, bc, r	2.0	
Eskdalemuir ...	985.6	38	S	4	c	988.8	+6	37	-1	W	5	-	c	2	42	36	o, c	c	bc, c, o	0.2	
Malin Head ...	977.5	43	WSW	8	om, qf	994.2	+8	40	0	N	6	N	b, c, q, p	6	4	45	40	b, c, q, p	b, c, q, p	b, c, q, p	2.5
Blackhead Point ...	982.5	43	WSW	8	om, qf, p	999.1	+6	39	-5	NNE	3	NE	b, c, p	4	6	46	37	b, c, q, p	om, q, p	b, c, p	2.5
Valencia ...	991.9	47	SW	5	bc	1002.2	+6	47	+4	W	3	NW	b	4	0.4	48	42	bc	bc	bc	4.2
Roche's Point	992.6	43	W	3	b	1001.7	?	43	-2	NW	2	-	o	3	1	49	42	c, op	op, bc, b	b, bc, b	?
Birr Castle ...	988.2	40	SW	2	c	1000.0	?	38	-2	SW	1	-	c	1	1	46	37	b	cp	cp, c	5.0
Donaghadee ...	983.8	40	SW	5	b, z, q	993.1	+6	40	+2	W	4	-	bc	4	1	48	38	b, om, q	b, z, q	om, q, p, q	0.0
Liverpool (Bidston) ...	989.2	42	SW	3	o	992.9	+4	42	+1	WSW	5	W	om, q	4	2	47	40	c, o	o, p	op, q	0.4
Holyhead ...	988.5	47	WSW	5	bc	995.3	+6	45	0	W	6	W	c, q	6	Trace	49	43	b, c, c, o, r	c, o, c	b, bc, c, p	0.0
Pembroke (St. Ann's) ...	991.4	46	W	4	cf	998.6	+3	49	0	NNW	7	NW	b, c, q	6	4	49	44	c, q	c, q, p	b, q	0.0
Scilly (St. Mary's)	992.0	48	NNW	6	c, q	1003.5	+4	48	-3	NNW	5	W	b, c, w	6	7	54	45	cp	cp, om, r	b, c, q, p, r	1.9
Falmouth ...	990.4	51	SSW	5	r	1003.7	+4	42	-8	WSW	1	-	b	1	9	53	41	o, q, c	o, q, c	q, q, b	0.2
Jersey (St. Aubin) ...	996.4	53	SW	4	o	1004.2	?	49	-1	WSW	3	-	b	4	8	56	48	or	or, o	op, b	0.0
Portland Bill ...	993.6	51	SSW	5	or	1001.4	+2	46	-4	W	6	W	b	5	5	52	46	c, p, q	c	or, c, bc	?
Dungeness ...	995.3	49	SW	6	o, q, p	999.8	+2	47	-2	W	3	SW	b	3	4	51	45	b, c, q	bc, op	or, c, b	?
Dover ...	995.0	48	SSW	6	r	1000.3	+3	43	-5	SW	5	-	b	4	8	52	42	b, c, or	op, r	or, c, b	0.2
Wick ...	975.5	41	SSW	4	r	983.2	+10	39	+1	N	4	-	o	3	5	48	36	bm	c, om, r	om, q, p	?
Nairn ...	974.7	42	SSW	6	b, c, q	987.8	?	37	0	WSW	3	-	c, q	2	2	44	36	c, c, q	q, bc, q	q, bc, o	2.7
Aberdeen ...	978.4	41	SSW	5	bc	982.0	+8	39	+2	NW	7	-	b, q	3	0.3	44	36	b, bc	b, bc	b, c, q, p	1.4
Leith ...	982.8	41	W	2	bc	986.8	+4	40	0	W	2	W	c	2	1	45	39	b	b	b, c, or	?
Tynemouth ...	986.8	41	S	1	bm	985.4	+3	42	0	W	3	-	b	4	-	45	39	bm	bm	b, q, m	?
Spurn Head ...	991.5	43	WSW	4	r	990.8	+2	43	+2	NNW	5	-	b, c, q	5	5	45	39	bc, o	o, q, r	or	1.6
Yarmouth ...	994.0	48	WSW	5	o, q	994.6	+3	43	0	W	5	NW	b, c, q	3	3	49	41	bc, o	o, c	om, r, c	1.8
Clacton-on-Sea ...	995.0	45	S	3	o	997.6	+1	42	-1	SW	3	-	b	2	3	48	42	bc, c, o	o, d	o, q, bc	0.5
Nottingham ...	990.9	44	SW	1	r	992.4	?	43	0	WSW	3	W	b	1	6	47	40	bc, o	or	r, o, c	0.2
Bath ...	992.0	51	SW	4	r	999.3	?	45	-1	SW	4	W	o	1	7	53	42	b, bc, or	or	r, o, c	0.0
St. Farnborough ...	992.4	49	SSE	2	o	999.8	+3	41	-2	WSW	4	-	b, v	1	4	52	39	b, o	r, o	r, o, b	0.2
London (Kew Obs.) ...	993.2	48	S	2	c	999.5	+3	43	-2	SW	4	-	b	1	6	52	42	b, o, or	om, o, d, o, c	om, d, om, b	0.3
Spitsbergen ...	1015.9	-27	S	2	b	1013.3	-2	-17	+19	-	0	?	S	?	?	-17	-40				
Vardö ...	1011.8	18	-	0	o	1008.8	0	16	-3	WSW	1	-	o	3	?	19	16				
Bodö ...	997.6	18	E	5	c	992.2	-3	16	-2	E	8	-	b	2	0	18	12				
Christiansund ...	961.9	39	ESE	3	o	980.0	-3	39	+3	W	4	-	c	4	2	39	36				
Skudesnaes ...																					
Færder (Klania Fjord) ...	992.0	32	SW	3	o	983.9	-6	36	+9	E	2	-	r	3	Trace	36	25				
The Scaw (Skagen) ...	993.3	34	SSW	1	bc	980.6	-4	39	+2	ESE	4	-	r	4	9	39	34				
Blaavands Huk ...	996.3	41	SW	3	c	982.7	+2	39	-2	NNW	5	-	o	4	10	43	37				
Haparanda ...	1008.6	-9	NE	2	bc	1006.6	-2	-6	0	NE	2	-	o	1	-	-2	-11				
Hernösand ...	997.0	21	E	8	S	996.8	0	18	-3	NW	4	-	S	1	8	23	16				
Stockholm ...	986.0	22	E	2	S	993.2	0	28	-2	E	2	-	o	1	7	32	28				
Wisby ...	989.7	39	SW	6	o	992.8	-5	36	0	SSE	2	-	o	1	6	41	34				
Karlstad ...	991.0	30	-	0	r	988.0	-8	30	-2	E	2	-	S	1	2	36	23				
Petrograd (5 a.m. G.M.T.)																					
The Helder ...	997.0	46	S	6	b	993.9	+4	46	+1	WSW	6	-	b	4	3	48	45				
C. Gris Nez ...	995.4	48	SSW	6	r	1000.0	+3	48	0	W	6	-	b	6	4	52	46				
La Hève ...	996.6	52	SW	5	r	1004.4	?	46	0	WSW	4	-	c	4	6	55	45				
Ushant ...																					
Brest (St. Mathieu) ...	997.0	50	SW	5	b	1005.6	0	50	-2	WSW	2	-	c	5	17	57	50				
Rochefort (Ile d'Aix) ...	1009.0	55	SW	6	o	1009.3	0	54	+4	SW	4	-	o	1	1	57	48				
Biarritz ...	1011.8	64	SSE	3	b	1012.0	0	61	+2	SSW	2	-	o	3	0	66	59				
Paris ...	1002.6	54	SSW	5	o	1005.0	+2	50	+4	NNW	1	-	r	1	5	57	46				
Belfort ...	1012.0	49	WSW	2	o	1011.8	?	52	+7	WSW	6	-	o	1	3	59	46				
Lyons ...	1014.6	66	S	2	b	1013.3	?	57	+8	S	2	-	o	1	-	59	49				
Nice ...	1016.3	53	-	0	b	1015.5	-1	50	0	-	0	-	b	2	-	57	45				
Perpignan ...	1015.5	52	NE	2	o	1015.8	0	43	-2	SW	1	-	bc	1	-	57	43				
Sanguinaire ...	?	58	S	3	m	?	?	58	-1	E	3	-	bc	3	-	61	54				
Corunna (7 a.m.) ...	1009.7	64	WSW	5	c	1009.9	0	61	0												





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,

South Cone.

North Cone.

Signals hoisted this morning,

South Cone.

North Cone.

Cones Hoisted at 9.0 a.m.

Western Channel and Bay 11

- |    |   |   |  |
|----|---|---|--|
| 0  | a | } | Fresh Northerly winds, decreasing and backing slowly; weather fair, but showery; cold.                         |
| 1  | b |   |  |
| 2  | a | } | Fresh Westerly winds, decreasing slowly; weather fair, some showers at first; cool.                            |
| 3  | b |   |  |
| 4  | a | } | Fresh Westerly or South-Westerly winds, decreasing; fair, some showers possible at first; cooler than of late. |
| 5  | b |   |  |
| 6  | a | } | Same as Nos. 0 and 1.  |
| 7  | b |   |  |
| 8  | a | } | Same as Nos. 2 to 4.   |
| 9  | b |   |  |
| 10 | a | } | Same as No. 5.   |
| 11 | b |   |  |
|    | a | } | Moderate Northerly winds, backing later; fair, showery; rather cold.   |
|    | b |   |  |
|    | a | } | Moderate North-Westerly winds, backing later; fair; cool.  |
|    | b |   |  |
|    | a | } | Moderate Westerly or North-Westerly winds, backing later; fair; sea rough, becoming moderate.                  |
|    | b |   |  |

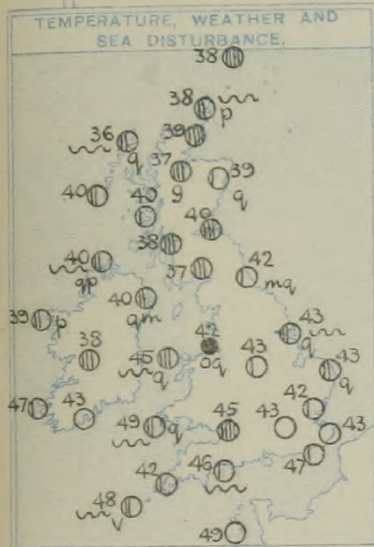
FURTHER OUTLOOK.



# SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 8<sup>th</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

As the depression over the North Sea passes away eastward, the winds over the country generally will decrease in force. A fresh depression will probably approach Ireland within the ensuing 24 hours.



## 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:—

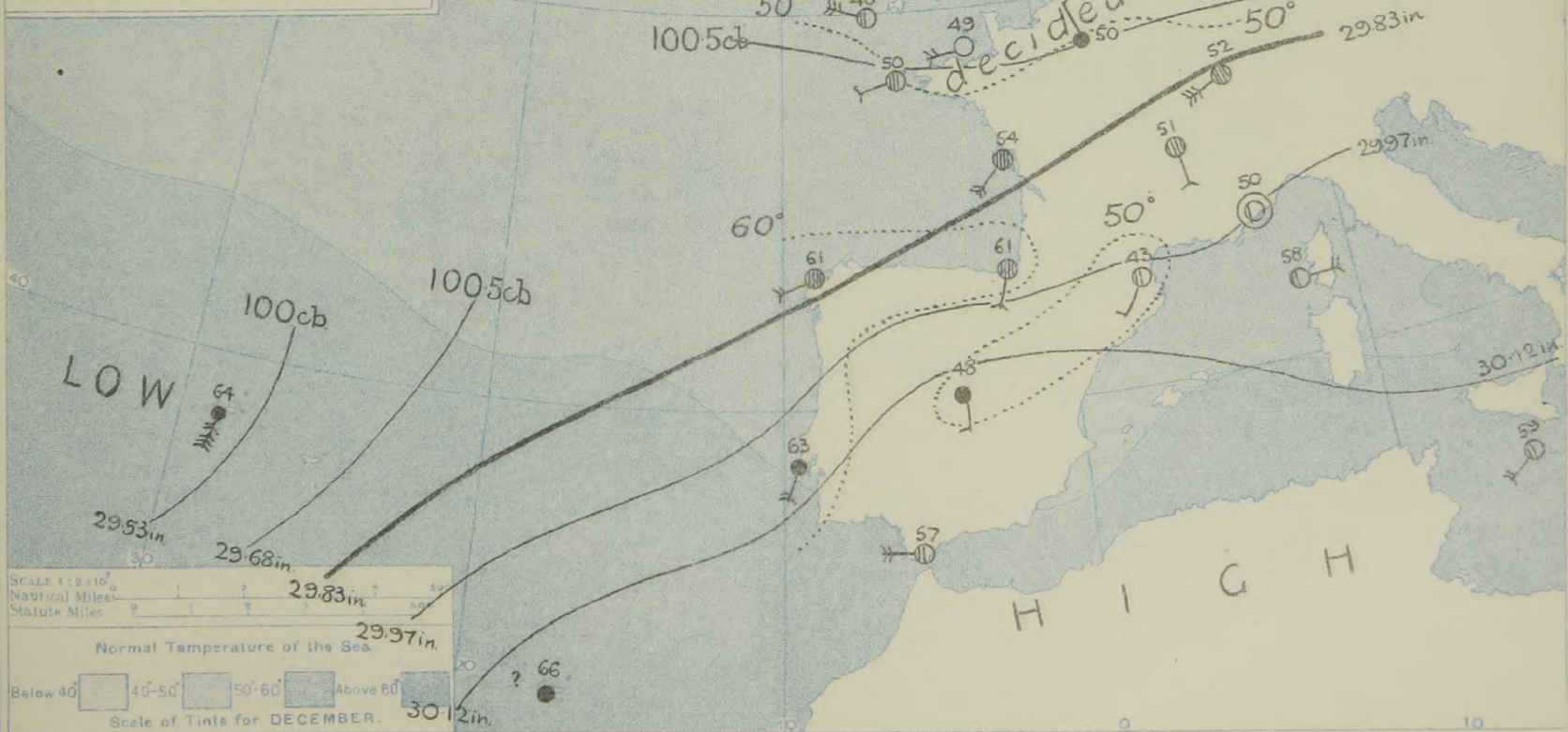
○ clear sky. ○ sky ½ clouded. ○ sky ¾ clouded.

● sky ¾ clouded. ● overcast sky. ● rain falling.

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

⚡, thunderstorm.

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





## DAILY WEATHER REPORT.

Wednesday, 8th December 1915.

REPORTS  
FOR  
YESTERDAY.

7th December, 1915.

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.	° F.										
Petrograd -	1014.9	-2	NW	2	b	1013.9	-3	-6	-13	WSW	1	-	f	+	-	9	-7		
Lisbon -	1013.6	63	SW	6	o	1015.8	0	63	+2	SSW	4	-	o	?	19	63	61		
Azores (Horta)	-	-	-	-	-	999.9	0	63	0	SW	6	*	c	5	2	64	63		

## 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 ...	5	45	38	p	o.r.	0.0	Margate ...	1	52	44	op	op	0.0
Bauff ...	-	45	34	c.bc	bc	1.5	Ramsgate ...	3	?	43	cr	r.	0.5
Carnoustie ...							Hastings ...	2	51	46	bc.o	or.	0.0
St. Andrews ...				*	*		Bexhill-on-Sea ...						
England, N.E.							Eastbourne ...	3	51	47	bc.o	or	0.0
Harrogate ...	0.3	44	38	c.bc.c	c.o.	1.6	Seaford ...	2	51	47	o	r	0.1
Skegness ...	7	46	39	b.bc.o	or	0.9	Brighton ...	5	51	47	c.or.o	o.or.o	0.0
England, N.W.							Worthing ...	3	51	46	c.o	or	0.0
Morecambe ...	-	45	40	bc.	bc.o	2.0	Littlehampton ...	5	51	47	d.r	r.d.	0.0
Blackpool ...	2	46	42	bc.o	of	1.3	Bognor ...	5	51	46	op	op	0.0
Southport ...	4	46	40	bc.op.o	o	0.1	Southsea ...	1	52	46	o	or	0.0
Midlands.							Bournemouth ...	1	53	44	or	or	0.2
Buxton ...	14	44	37	bcd	bcd	0.0	Weymouth ...	5	52	46	cr	r.c.o	0.0
Leamington Spa ...	3	48	41	bc.c.op	op.r	0.0	Torquay ...	4	53	47	o	op	0.3
Malvern ...							Paignton ...	4	53	46	cp	cp	0.0
Ross-on-Wye ...	12	48	42	bc.c	or.	0.3	Falmouth ...	8	53	46	op.c	op.r	0.2
Wales.							Penzance ...	9	54	47	bc.c	c.or.	0.6
Rhyl ...	8	47	41	r.bcp.c	op	0.5	Newquay ...	*	53	*	o.bc.o	bc.or.	0.5
Colwyn Bay ...	6	48	42	bc	bop.	0.3	Ilfracombe ...	14	50	44	cp.o	or	0.0
Llandudno ...							Weston-super-Mare ...	2	51	42	bc.c	c	0.0
Aberystwyth ...	4	48	42	r.o.c	o.or.	0.0							
Tenby ...	10	49	43	bc.or	r.	0.0							
England, E.													
Cromer ...													
Lowestoft ...	2	49	42	bc.c.op	op.c.	1.4							
Felixstowe ...	1	46	42	bc.m	bc.or.	0.9							
Walton-on-Naze ...	1	48	42	bc.c	c.op.d	0.3							
Southend-on-Sea ...	0.3	49	42	bc.c	c.op.d	0.3							

## 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) ...	85	76	0.1	52	42	37	4	c	op	op.b
Westminster (St. James's Pk.)	*	*	0.0	5	5	5	5	5	5	5
Camden Sq. (Brit. Rainfall)	90	80	0.0	53	43	37	4	ur	or	ur.b
Hampstead (Reservoir) ...	94	78	0.0	52	41	36	5	b.o	or.o	*
Richmond Park	*	82	0.0	50	39	28	5	or	or	or.b
Kew. (See front page.)	*	*	0.0	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.)	92	76	0.0	Total. 172 Joules		Average Rate. 60 Milliwatts.		Max. Rate. 16 Milliwatts.		

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

8th Dec. 1915.			
Station	Sunrise.	Noon.	Sunset.
Yarmouth ...	7.52	11.45	3.38
Greenwich ...	7.53	11.45	3.36
Wick ...	7.54	11.52	3.50
Valencia ...	7.55	11.52	3.50
	8.50	12.4	3.18
	8.52	12.4	3.17
	8.58	12.33	4.28
	8.59	12.33	4.28

## NOTES ON YESTERDAY'S WEATHER.

The temperature again rose above 50° in the South and to 56° at Jersey. Weather was showery in all districts and fairly heavy rain fell in the North, 20 mm. at Lerwick. The sunshine measurements were generally small.

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.

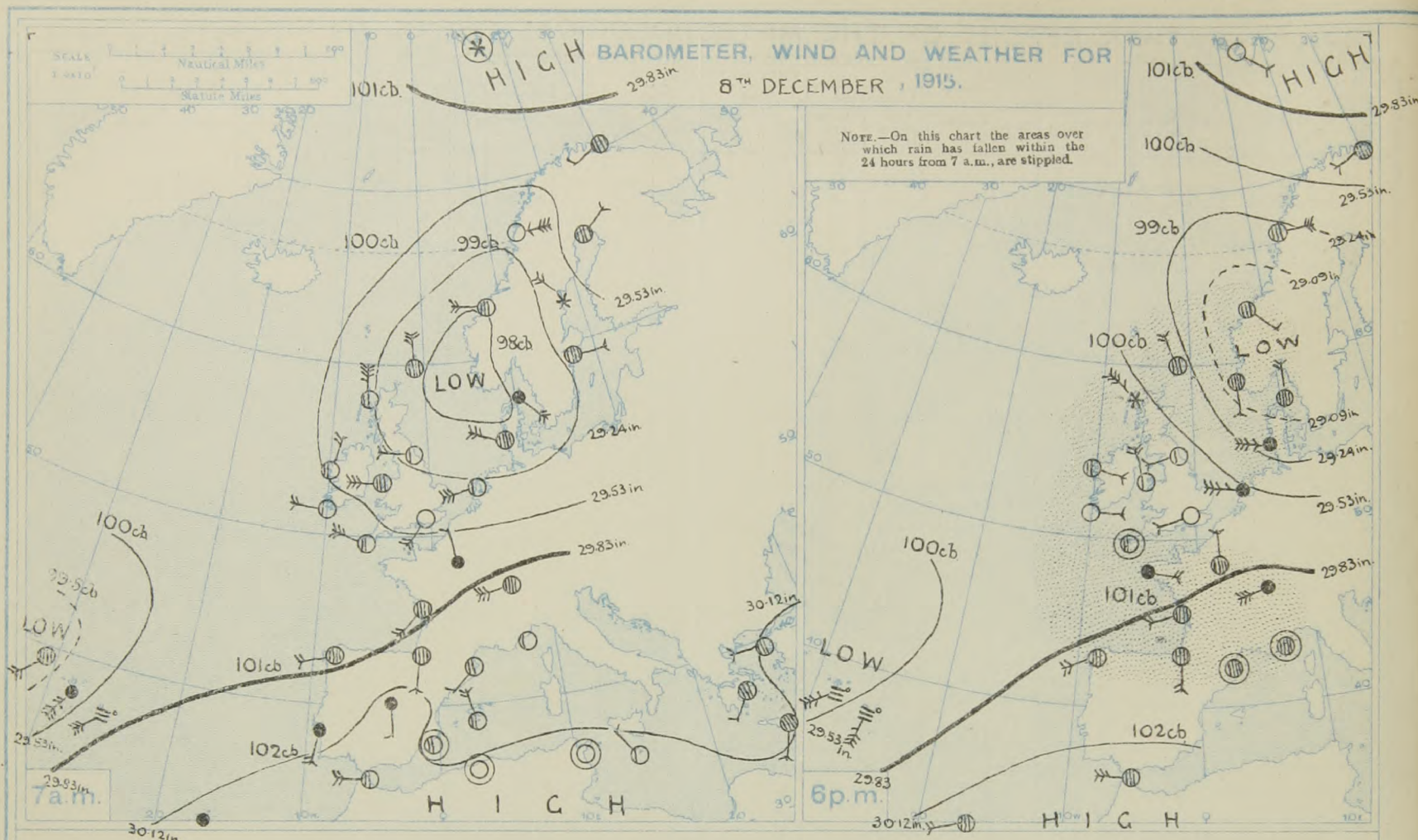


DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 343. Thursday, 9th DECEMBER 1915.

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sub- sine 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.	°F.	°F.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick ...	991.2	35	NNW	3	c	1002.0	+2	31	-7	-	0	-	b	0	1	38	30	c.c.spg	csp	c.b.c	Hours.
	Deerness ...	996.3	33	WNW	5	b.cph	1005.1	+	30	-8	W	2	-	b.cphs	2	4	41	30	b.cph	b.cph	b.cphs	0.4
	Stornoway ...	1003.5	35	NW	5	b.cphs	1007.1	-2	29	-7	NW	2	-	b	2	1	37	28	b.cphs	b.cphs	b.cphs	2.7
	Castlebay (Barra Isd.)	1004.9	37	W	4	chp	1007.3	0	35	-5	-	0	-	b	1	1	41	33	b.cph	ch.spg	ch.spg	0.8
	Glasgow ...	1005.5	34	W	1	b	1009.4	-1	27	-11	ENE	1	-	b.m.x	+	0.1	39	26	c.b.c.b	b	b.cphs	5.9
	Eskdalemuir ...	1004.2	31	WNW	4	b	1011.1	0	19	-18	N	1	-	b.x	+	0.4	38	18	c.p	c.b	b.b.c.s	5.6
	Malin Head ...	1005.7	41	NW	4	bc	1005.7	-5	34	-6	SE	4	-	bc	4	3	43	33	b.cq	bc	cm	5.0
	Blacksod Point ...	1007.1	39	ESE	2	bc	1000.6	-8	36	-3	ESE	5	SE	cm	4	0.2	44	35	bc	bc	bc.m	+
	Valencia ...	1007.3	41	E	2	b	999.8	-11	46	-1	E	6	-	r	+	2	50	40	bc	bc	bc.or	4.9
	Roche's Point ...	1008.5	38	SE	1	b	1000.9	+	47	+4	E	6	-	r	6	2	49	37	b	b.b.c.b	b.or	+
Birr Castle ...	1008.1	35	-	0	bc	1003.1	+	39	-1	ESE	3	-	b	+	-	44	28	b	bc	b.c.c	6.0	
Donaghadee ...	1005.2	35	W	3	bz	1007.9	-4	39	-1	ESE	3	E	b.c.m	2	-	41	31	bz	bz	bz.b.m	+	
Liverpool (Bidston)	1007.4	39	SW	1	b	1009.1	-2	33	-9	SW	2	SW	o	2	-	45	33	c.c.b	b.o	b.b.c.x	5.1	
Holyhead ...	1007.8	44	N	4	b	1006.4	-5	40	-5	ENE	4	-	cg	3	-	46	35	c.b.c	b.c.b	b.c.b.c	4.2	
Pembroke (St. Ann's)	1009.4	41	N	1	b	1004.3	-5	42	-7	E	4	-	cg	4	-	49	37	b	b	b	4.0	
Scilly (St. Mary's)	1007.4	45	-	0	bc	1000.2	-6	51	+3	SE	5	-	over	5	2	51	44	c	c.b.c	c.c.p	1.0	
Falmouth ...	1009.0	44	NW	1	z	1003.0	-7	48?	+6	ESE	2	-	r	+	5	49	41	b.c.c	c.c.c	b.or	0.0	
Jersey (St. Aubin)	1008.7	45	NW	2	bm	1005.8	+	49	0	E	2	-	odf	2	2	54	42	b.c.c	c.b.m	b.odf	2.3	
Portland Bill ...	1008.0	47	N	2	c	1006.2	-3	45	-1	E	5	-	or	5	3	51	44	bc	b.c.c	b.c.or	+	
Dungeness ...	1008.0	42	W	2	b	1010.3	-3	45	-2	E	3	E	cu	3	-	50	34	b	b	bc	+	
Dover ...	1008.4	40	SW	1	b	1011.0	-1	44	+1	ESE	1	E	o	2	-	50	33	b	b.b.c	b.b.c	6.0	
Wick ...	997.8	33	NW	4	s	1006.6	+1	27	-12	NW	1	-	b	2	4	39	26	cm.spg	hp.spg	oms.b	+	
Nairn ...	1002.1	34	NNW	3	bc	1008.2	+	28	-9	NW	1	N	bc	1	0.4	38	26	grs.b	ps.b	ps.c	1.6	
Aberdeen ...	1000.7	35	W	5	b	1008.3	+1	30	-9	W	3	-	b	2	0.3	39	30	b.c.p	bc.b	bq.b	1.1	
Leith ...	1004.4	35	W	1	b	1009.7	0	30	-10	W	1	-	b	1	-	41	29	p.c.c	b	b	+	
Tynemouth ...	1003.7	35	WSW	2	bm	1008.9	+1	32	-10	W	1	-	bm	3	-	42	31	b.c	bm	bm	+	
Spurn Head ...	1003.0	40	NW	5	b.cph	1011.1	+1	34	-9	NW	2	-	b.m.x	5	-	44	22	bc	bc	b.c.m	4.0	
Yarmouth ...	1005.3	41	WNW	4	b	1010.7	0	34	-9	WNW	2	-	om	2	-	47	32	bc	b.c.m	b.c.m	4.2	
Clacton-on-Sea ...	1008.1	41	NW	3	b	1011.2	-1	37	-5	NE	2	NE	c	1	-	48	33	bc	b.c.b	b.x.c	4.3	
Nottingham ...	1006.9	40	W	2	b	1010.9	+	30	-18	-	0	-	fx	+	Trace	46	29	b.c.p	b.m	b	4.0	
Bath ...	1008.5	43	W	?	b	1007.8	+	36	-9	E	4	-	o	+	-	51	29	c.c.b.c	b.b.c	b.m.c	4.7	
St. Farnborough ...	1008.7	38	W	1	b	1009.6	-3	33	-8	ENE	1	SW	oz.x	+	-	49	25	b.b.c	b.b.c	b.m.c	5.9	
London (Kew Obs.)	1009.0	43	WSW	2	b	1010.7	-2	36	-7	E	3	-	om.x	+	Trace	50	29	b.c.c	c.b.c	b.b.c	5.6	
Spitsbergen ...	1010.7	-13	SE	2	b	1014.6	+4	10	+27	ESE	2	+	bc	+	+	10	-19					
Vardö ...	1007.3	14	WSW	2	o	1007.8	0	14	-2	S	2	-	o	2	+	16	12					
Bodö ...	989.6	18	E	5	c	991.0	0	19	+3	E	4	-	c	2	-	19	16					
Christiansund ...	981.5	37	SE	1	c	988.4	+8	37	-2	NW	7	-	c	4	10	41	36					
Skudesnaes ...	983.0	39	S	2	o	995.9	+3	34	-	NW	9	-	r	4	13	39	32					
Færder (Mianla Fjord)	983.4	32	N	6	o	990.1	+3	28	-8	-	0	-	m	3	?	36	28					
The Scaw (Skagen)	981.5	36	N	3	o	990.4	+	34	-5	NNW	3	-	c	3	9	39	32					
Blaavands Huk ...	987.1	41	W	8	r	1001.0	+4	39	0	WNW	10	-	o	6	Trace	43	34					
Haparanda ...																						
Hernösand ...																						
Stockholm ...																						
Wisby ...																						
Karlstad ...																						
Petrograd (G.M.T.)																						
The Helder ...	1002.4	41	WNW	7	r	1011.5	0	41	-5	W	2	-	bc	4	1	46	41					
C. Gris Nez ...	1007.9	47	W	5	b	1010.9	-2	41	-7	ESE	4	-	o	2	-	50	37					
La Hève ...	1009.5	46	WNW	2	c	1007.5	+	45	-1	ESE	3	-	f	3	4	54	43					
Ushant ...																						
Brest (St. Mathieu)	1009.3	50	E	3	r	1005.5	-2	52	-12	S	4	-	r	4	5	55	48					
Rochefort (Ile d'Aix)	1010.7	53	WSW	3	o	1013.1	+2	54	0	WSW	4	-	o	+	9	57	52					
Biarritz ...	1012.3	60	S	3	o	1016.0	+1	61	0	SSE	3	-	c	2	-	64	59					
Paris ...	1010.1	50	NW	1	o	1010.0	-3	48	-2	SE	1	-	r	+	2	55	46					
Belfort ...	1010.9	51	WSW	6	r	1014.1	+	51	-1	WSW	4	-	o	+	7	56	48					
Lyons ...	1013.6	54	SSW	1	o	1016.7	+	50	-1	S	2	-	b.c	+	1	61	49					
Nice ...	1014.7	51	-	0	o	1017.2	+3	50	0	-	0	-	f	3	1	55	48					
Perpignan ...	1014.0	50	-	0	o	1018.4	+5	48	+5	SW	1	-	f	+	2	57	46					
Sanguinaire ...	*	58	S	3	m	*	+	55	-3	E	2	-	b	3	-	64	54					
Corunna (7 a.m.)	1012.8	63	WSW	4	c	1013.7	-1	63	+2	SW	7	-	o	4	?	66	61					
Madrid (8 a.m.)	1019.4	52	SW	3	r	1025.5	+3	50	+2	WSW	1	W	o	+	4	54	50					
Lisbon (9 a.m.)																						
Gibraltar ...	1024.4	64	W	5	c	1025.4	+	62	+5	NW	3	-	b	1	-	67	56					
Rome ...																						
Malta (8 a.m.)	*	*	*	*	*	1019.8	+1	61	+2	W	1	-	o	1	-	70	59					
Azores (Horta, 8 a.m.)	997.1	*	SW	7	m																	
Madeira (Funchal)	1021.5	68	WSW	3	c	1023.0	0	66	0	WSW	4	-	bc	2	-	70	63					
South Farnborough :- 7.45 a.m.																						
Pilot Balloon Ascent :-																						
Wind at 800 metres SE 26 miles per hour }																						
" " 500 " SE by E 30 " " " }																						

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





**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.

11 a.m. December 9<sup>th</sup>

"South Cone"

Districts 6 to 10.

Western Channel and Bay 11

**FURTHER OUTLOOK.**

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

NAPIER SHAW, Director

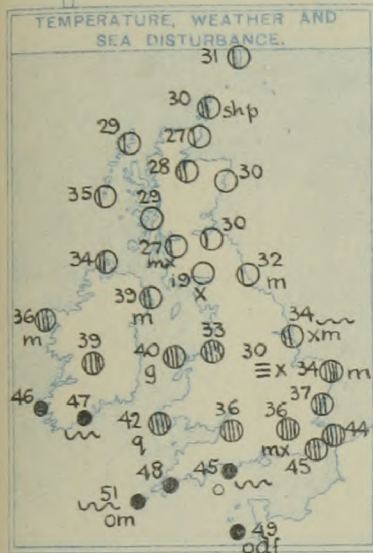
- |    |   |   |  |
|----|---|---|--|
| 0  | a | } | Light variable breezes, increasing later from South-East; fair first, becoming less settled; cold.                     |
| 1  | b |   |  |
| 2  | a | } | Wind shifting to South-East and freshening; fair at first, some rain later; cold.                                      |
| 3  | b |   |  |
| 4  | a | } | Freshening South-Easterly or Easterly wind; dull, some rain, cold, becoming warmer later.                              |
| 5  | b |   |  |
| 6  | a | } | Strong winds from between South-East and South-West, a gale at times; dull, some rain; becoming warmer.                |
| 7  | b |   |  |
| 8  | a | } | Fresh or strong winds from between South-East and South-West; dull, some rain; moderate temperature; rather rough sea. |
| 9  | b |   |  |
| 10 | a | } |  |
|    | b |   |  |



# SYNOPTIC CHART FOR 7 a.m., THURSDAY, 9<sup>TH</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

The depression in the West will advance eastward and cause an increase of wind and less fine weather generally.



## 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:—

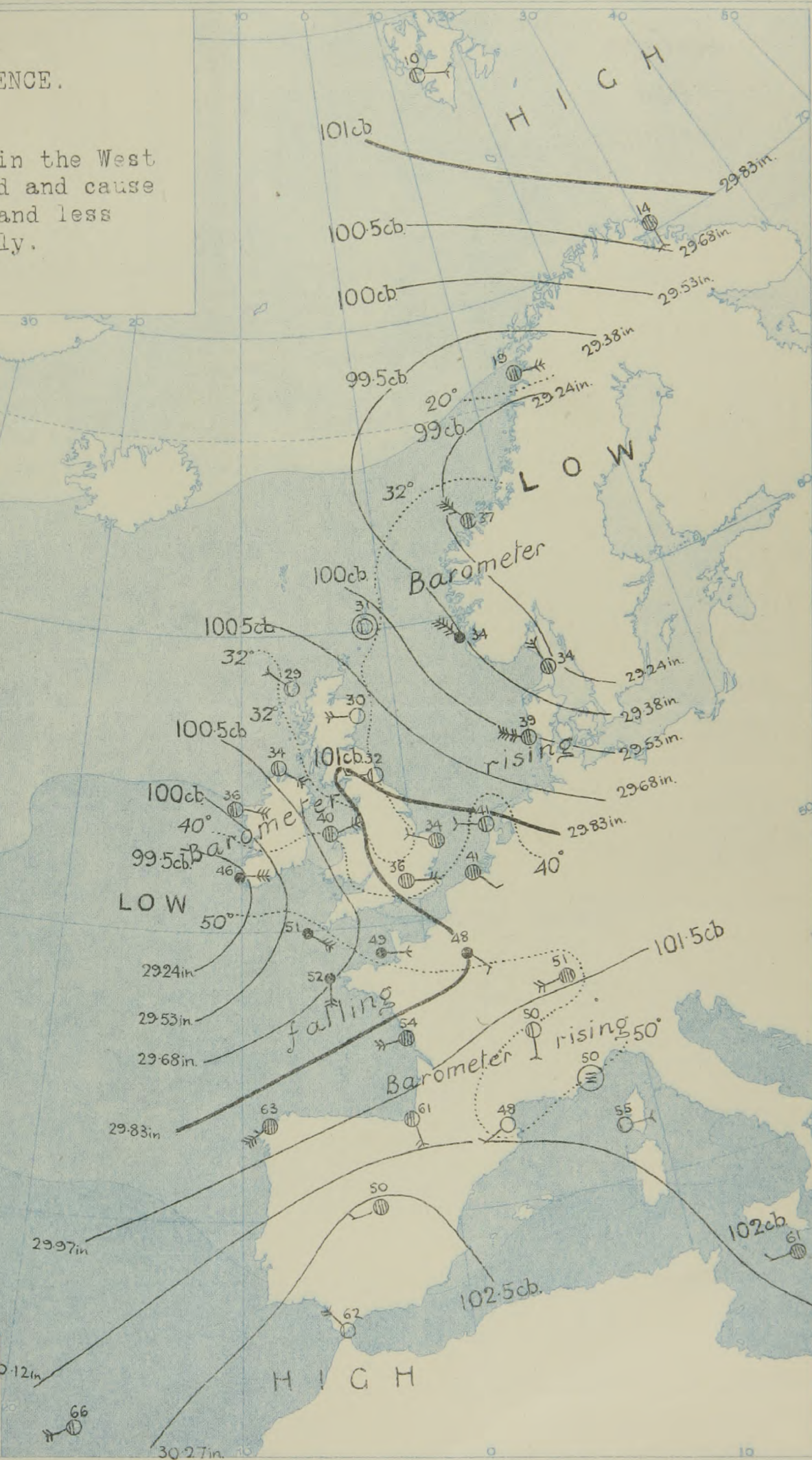
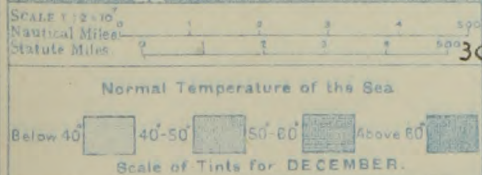
○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded. ○ sky 4/5 clouded. ○ overcast sky. ● rain falling. \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder. T, thunderstorm.

**SEA DISTURBANCE.**—Rough. High.

Inches  
31

30

29





## DAILY WEATHER REPORT.

Thursday, 9th December, 1915.

REPORTS  
FOR  
YESTERDAY.

8th December 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.	
		° F.	° F.						° F.	° F.			
Scotland.		mm. &	° F.	° F.		Hr.	Tunbridge Wells ...	mm. &	° F.	° F.			Hr.
Oban ...	9	46	39	b	sp.	4.3	Margate ...	5	51	43	b bc	bc b	5.0
Banff ...	0.4	42	35	cq	bchp.	0.7	Ramsgate ...	14	50	42	bc	bc	6.3
Carnoustie ...	—	41	33	*	*	4.7	Hastings ...	2	53	43	b	b	6.0
St. Andrews ...	—	41	33	*	*	4.7	Bexhill-on-Sea ...	—	51	43	b	b	5.6
Eng. N.E.							Eastbourne ...	6	51	43	b	b	5.5
Harrogate ...	3	42	35	c bcd	b	3.4	Seaford ...	4	52	43	b	b	5.5
Skegness ...	9	45	36	bc c	bc b	4.8	Brighton ...	—	50	45	c bcd	bcd b	5.5
Eng. N.W.							Worthing ...	3	51	43	bc	bc	5.3
Morecambe ...	—	44	38	bc	bc	3.0	Littlehampton ...	1	52	43	b	b bc	5.5
Blackpool ...	—	45	39	bc bcd	cp. bcd	3.6	Bognor ...	4	51	44	b	b	5.4
Southport ...	2	44	38	cobpc	copcb	4.2	Southsea ...	5	50	44	b	b	5.4
Midlands.							Bournemouth ...	—	50	43	b	b	4.5
Buxton ...	8	40	36	bc r	bc r	5.8	Wales.						
Leamington Spa ...	—	48	40	bc	bc b	5.3	Rhyl ...	2	44	38	bc b	bc	3.4
Malvern ...	4	47	40	bc	bc b	5.3	Colwyn Bay ...	2	45	39	bc	bc	3.6
Ross-on-Wye ...	4	46	40	bc	bc	4.8	Llandudno ...	—	—	—	—	—	—
Wales.							Aberystwyth ...	3	46	41	bc c	bc c	3.5
Rhyl ...	2	44	38	bc b	bc	3.4	Tenby ...	1	45	42	bc	b	4.4
Colwyn Bay ...	2	45	39	bc	bc	3.6	England, E.						
Llandudno ...	—	—	—	—	—	—	Cromer ...	3	47	40	c o c	c	3.7
Aberystwyth ...	3	46	41	bc c	bc c	3.5	Lowestoft ...	4	48	41	bc	bc	3.7
Tenby ...	1	45	42	bc	b	4.4	Felixstowe ...	3	47	41	bc	bc b	4.5
England, E.							Walton-on-Naze ...	—	47	41	b	b	5.0
Cromer ...	3	47	40	c o c	c	3.7	Southend-on-Sea ...	—	47	42	b	b bc b	5.0
Lowestoft ...	4	48	41	bc	bc	3.7							
Felixstowe ...	3	47	41	bc	bc b	4.5							
Walton-on-Naze ...	—	47	41	b	b	5.0							
Southend-on-Sea ...	—	47	42	b	b bc b	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.				
Greenwich (Royal Obsy.) ...	66	94	5.2	50	31	2.7	b	bc	bx. om
City (Bunhill Row) ...	*	*	2.8	*	*	*	*	*	*
Westminster (St. James's Pk.)	73	90	4.5	52	34	2.9	bc	bc	om. b. m.
Camden Sq. (Brit. Rainfall)	71	93	2.8	50	31	2.8	b	b. bc	*
Hampstead (Reservoir) ...	*	*	*	*	*	*	*	*	*
Richmond Park ...	*	*	*	*	*	*	*	*	*
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.)				251 Joules		4.8 Milli-watts.			
67				86		2.3 Milli-watts.			

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

9th Dec. 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.53	11.45	3.08
Greenwich ...	7.54	11.46	3.07
Wick ...	7.55	11.47	3.06
Valencia ...	7.56	11.48	3.05
	7.57	11.49	3.04
	7.58	11.50	3.03
	7.59	11.51	3.02
	8.00	11.52	3.01

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-laze, 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.	
		Max.	Min.			
Dublin to 4 p.m.	trace	42	38	33	bq. b	*
Darwen to 9 p.m.	4	41	36	32	o. ch	2.1
Manchester "	1	44	34	*	c o	0.0
Birmingham "	*	*	*	*	c o	0.0
Oxford to 8 p.m.	*	*	*	*	*	*
Teignmouth to 9 "	4	51	41	37	o. b c r	3.1
Plymouth "	*	*	*	*	bc	bc
S. Kensington (Museum Grounds to 6 p.m.)	4	51	43	34	od. b	0.0

## NOTES ON YESTERDAY'S WEATHER.

Weather improved, and up to 6 hours of sunshine were experienced very generally in the south-east. Rain fell later in the south-west. Temperature fell decidedly and sharp frost was experienced over a considerable area.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 344

FRIDAY,

10<sup>TH</sup> DECEMBER, 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.	Dry Bulb.	Change in 24 hours.	WIND. Direc.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12												Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick	1000.2	32	N	5	cq	1002.1	-1	34	+3	N	3	-	bc	3	36	29	csp	cspg	bc	Hours.	
	Deerness	1001.3	34	N	2	b	996.6	+	36	+6	ESE	5	-	op	4	36	30	bc.b	bps.b	bc.c,op	3.2	
	Stornoway	999.6	30	N	1	cu	991.6	-3	37	+8	E	7	-	og	6	37	27	b.be	bc.c,om	o.bc.o	3.0	
	Castletown (Barraled.)	996.1	39	E	4	o	965.9	-2	38	+3	ENE	4	-	r	4	39	34	b.o	o	bc.opr	0.0	
	Glasgow	998.0	32	ENE	4	o	968.0	-4	34	+7	ENE	4	-	or	8	34	24	bc.c,om	omg	o.ssr.r	0.0	
	Eskdalemuir	998.7	31	SE	4	os	969.1	-5	35	+16	NNE	3	-	od	11	35	16	bc.c,om	o	o.ssr.s	0.0	
	Malin Head	990.3	36	SE	8	omgr												omgr	omgr	omg		
	Blacksod Point	982.6	43	ESE	6	omd	978.8	-3	50	+14	SSW	5	SW	cm	5	51	36	omgr	omg	omg		
	Valencia	986.8	54	S	4	m	981.6	-2	52	+6	SW	4	-	op	16	56	46	omg	omg	omg	0.0	
	Roche's Point	989.6	53	SW	4	o	986.2	+	52	+5	WSW	6	-	o	6	54	47	r	r	omg		
	Birr Castle	986.4	49	SE	2	r	981.8	+	52	+13	S	1	-	o	16	53	39	omg	omg	omg	0.0	
	Donaghadee	990.7	36	SE	9	omgr	984.0	-4	49	+10	S	3	-	bcm	3	18	49	omg	omg	omg		
	Liverpool (Bidston)	993.4	35	ESE	4	s	989.1	-2	48	+15	SE	2	-	oe	2	9	48	33	o	os	od	0.0
	Holyhead	988.5	47	SSE	4	omg	986.8	-2	51	+11	SW	4	-	odm	4	10	52	39	ov.2 om	omg	odm	0.0
	Pembroke (St. Ann's)	991.2	53	W	5	og.d,om	988.9	-5	52	+10	SSW	6	SW	cgm	5	22	53	40	ogm	ogm	f	0.0
	Scilly (St. Mary's)	994.1	54	WSW	5	omd	992.2	-3	54	+3	SW	6	-	om	6	13	55	58	omr	omr	omr,fd	0.0
	Falmouth	995.0	55	SW	6	r	993.7	-2	53	+5	SW	7	-	o	4	30	55	47	rq	rq	rq,p	0.0
	Jersey (St. Aubin)	1000.4	56	SSW	5	op	1000.7	+	55	+6	SW	4	-	og	4	22	56	48	omrge	or	op	0.0
	Portland Bill	995.1	53	SW	6	or	996.0	-1	53	+8	SW	6	-	o	5	17	54	45	or	or	or,f	
	Dungeness	995.3	52	SW	7	or	997.6	0	53	+8	SW	4	-	omr	4	23	54	44	bc or	or	omr	
	Dover	996.0	52	SW	5	r	998.2	0	53	+9	SW	5	SW	d,om	4	25	63	42	or,p	or	or,p,d,om	0.0
Wick	1002.0	30	-	0	bc	996.1	-3	39	+12	ESE	3	-	r	3	04	40	22	b	bc	bc,opa		
Nairn	1000.7	22	-	0	cmx	992.2	+	34	+6	E	2	-	r	2	1	34	21	bc	bcm	bc,prs	1.3	
Aberdeen	1001.7	30	W	2	o	993.5	-4	38	+8	SE	6	-	og	5	3	39	29	b2	bc,czo	org	1.1	
Leith	999.4	37	E	2	o	988.3	-3	38	+8	E	2	-	r	9	39	27	bcm	cm	ogr			
Tynemouth	1000.2	40	S	4	omg	990.1	-3	40	+8	SSE	1	-	omr	4	11	41	31	f	m,og	omr		
Spurn Head	998.2	39	S	7	r	991.5	0	43	+9	SSE	4	-	f	6	10	43	34	og	m,og	omr	0.0	
Yarmouth	998.9	40	SE	7	omg	995.3	+1	57	+18	SW	3	-	o	3	11	52	33	bc,om	omg	omg	0.0	
Clacton-on-Sea	997.2	43	ESE	6	r	996.5	0	47	+10	SSW	3	-	o	2	13	49	37	c,og	omg	og,ro	0.0	
Nottingham	995.5	37	E	4	n	992.0	+	42	+12	SE	1	-	o	10	42	28	f,om	or	ro	0.0		
Bath	993.5	54	S	1	o	993.9	+	56	+20	SW	4	SW	o	20	57	35	or	ro	org	0.0		
Sth Farnborough	994.3	52	WSW	3	c	996.0	-1	54	+21	SW	3	-	o	17	54	32	or	rm	car,ro	0.0		
London (Kew Obs.)	995.0	45	E	2	r	996.2	-2	54	+18	SW	3	-	o	15	54	36	omx,omf	of,omr	or,omr,ro	0.0		
NORTHERN EUROPE.	Spitsbergen	1017.7	5	-	0	b	1020.4	+1	7	-3	ESE	7	+	b	2	12	-2					
	Vardö	1007.3	18	SSE	2	o	1016.9	0	18	+4	-	0	-	S	2	18	10					
	Bodö	994.1	16	E	5	bc	994.6	0	14	-5	E	5	-	c	2	21	12					
	Christiansund	997.7	32	SW	4	o	999.8	+1	30	-7	WNW	4	-	c	4	12	37	28				
	Skudesnaes	1002.0	37	NNW	4	o	999.7	0	36	+2	SSW	1	-	o	2	37	32					
	Færder (X'ianta Fjord)	1002.6	32	W	2	b	1000.8	0	36	+8	SW	5	-	b	3	Trace	36	28				
	The Scaw (Skagen)	1003.6	30	N,W	2	b	1002.7	0	36	+2	SSW	2	-	bc	2	41	28					
	Blaavands Huk	1007.7	37	WNW	2	b	1001.5	0	32	-7	SE	1	-	S	3	Trace	39	40				
	Haparanda																					
	Hernösand																					
Stockholm																						
Wisby																						
Karlstad																						
Petrograd (6 a.m. G.M.T.)																						
FRANCE, &c.	The Helder	1005.0	41	ESE	3	o	996.0	0	48	+7	SW	2	-	o	3	11	48	36				
	C. Gris Nez	997.7	51	S	7	r	998.9	+1	52	+11	SW	6	+	r	6	19	52	41				
	La Hève	1002.6	50	SSW	4	r	1001.7	+	54	+9	SSW	5	+	r	4	11	55	45				
	Ushant																					
	Brest (St. Mathieu)	1001.5	54	SW	6	f	1001.6	+1	54	+2	SW	5	+	o	5	5	55	48				
	Rochefort (Ile d'Aix)	1010.6	54	SW	5	f	1010.3	0	57	+3	WSW	7	+	r	13	57	54					
	Biarritz	1013.0	66	SSW	5	o	1012.8	+1	68	+7	SSW	3	+	o	3	68	61					
	Paris	1006.4	57	SSW	5	r	1005.2	+1	57	+9	SSW	4	-	o	7	57	48					
	Belfort	1012.8	52	WSW	7	r	1011.1	+	52	+1	WSW	7	+	r	6	54	50					
	Lyons	1017.1	56	S	1	o	1016.0	+	53	+3	S	2	+	o	1	61	50					
Nice	1018.0	57	-	0	f	1018.7	0	57	+1	-	0	+	c	2	Trace	54	50					
Perpignan	1017.7	54	-	0	o	1018.0	0	48	0	SW	1	SW	o	66	45							
Sanguinaire		57	S	2	o		55	0	E	4	+	m	3	64	54							
SOUTHERN EUROPE.	Corunna (7 a.m.)	1011.7	64	SW	5	o	1011.7	0	64	+1	SW	6	-	o	5	3	66	63				
	Madrid (8 a.m.)	1026.3	54	WSW	2	o	1024.8	+1	52	+2	-	0	-	o	Trace	54	50					
	Lisbon (9 a.m.)																					
	Gibraltar	1024.7	61	W	4	b	1022.7	+	55	-7	W	3	+	b	1	69	54					
	Rome																					
	Malta (3 a.m.)						1023.3	+2	59	-2	W	1	-	bc	1	70	57					
Azores (Horta, 8 a.m.)	1006.4		N	3	o	1018.7	+5	55	-5	NNW	4	+	bc	3	1	64	54					
Madeira (Funchal)	1021.2	68	S	3	c	1019.1	-1	64	-2	S	3	-	o	8	73	64						

## GALES.

Duration and Extreme Force  
in British Islands.

Malin Head - 9th. From 16 hrs

SE 8.

Blacksod Point - 9th. 11hrs - 16hrs

ESE 8.

Donaghadee - 9th. From 15hrs.

SE 8.

Extreme SE 9 at 16hrs.

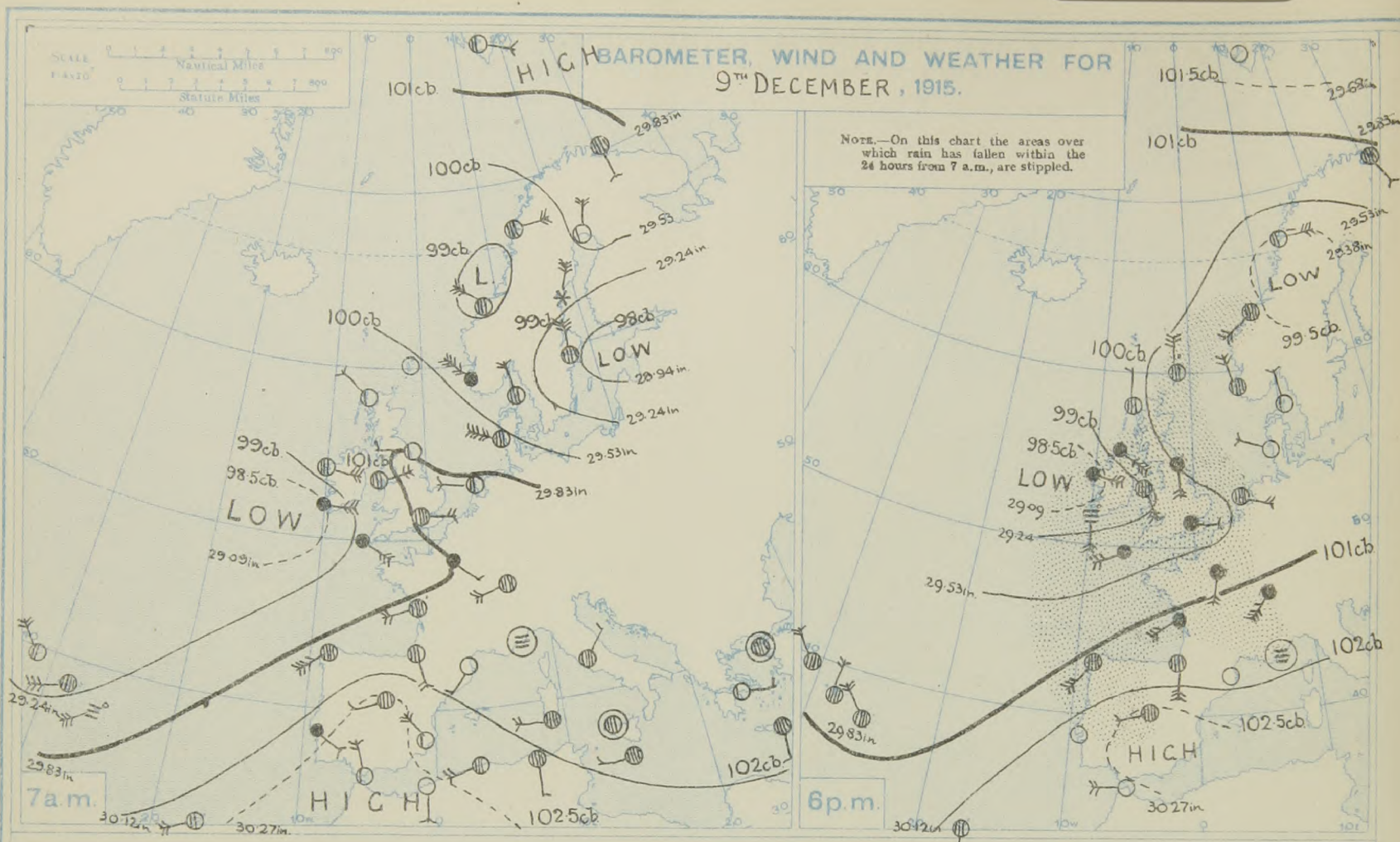
Spurn Head - 9th. 19hrs - 23hrs

ESE 8.

Yarmouth - 9th. 17hrs.

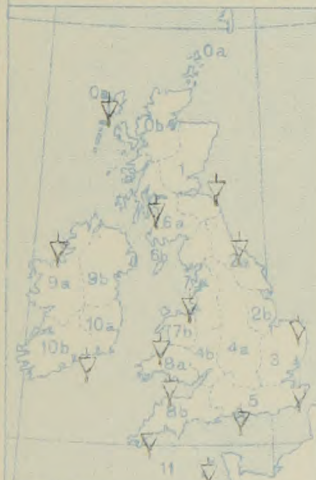
SE 8.





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

South Coast Hoisted  
in Districts 6-10 at 11 a.m.;  
in Districts 1-5 and 11 at 7 p.m.

Western Channel and Bay

- |    |   |  |
|----|---|--|
| 0  | a | Fresh or strong South-Easterly winds; dull with rain or sleet; rather cold.                                    |
| 1  | b |  |
| 2  | a | Moderate Southerly winds; dull, some rain; becoming milder.  |
| 3  | b |  |
| 4  | a | Fresh or strong South-Westerly winds, then moderating somewhat; dull, some rain but fair intervals; very mild. |
| 5  | b |  |
| 6  | a | Same as No. 2.   |
| 7  | b |  |
| 8  | a | Same as No. 2.   |
| 9  | b |  |
| 10 | a | Fresh or strong South-Easterly winds; dull, with some rain; becoming milder.                                   |
| 11 | b |  |
|    | a | Same as No. 2.   |
|    | b |  |
|    | a | Same as No. 3.   |
|    | b |  |
|    | a | Fresh Southerly or South-Westerly winds; fair or dull, some rain; mild.  |
|    | b |  |
|    | a | Strong South-Westerly winds or gales, then decreasing somewhat, sea rough or high; dull, some rain; mild.      |
|    | b |  |

**FURTHER OUTLOOK.**

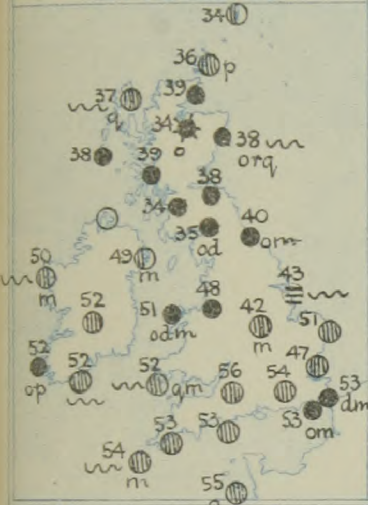


# SYNOPTIC CHART FOR 7 a.m., FRIDAY, 10<sup>TH</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

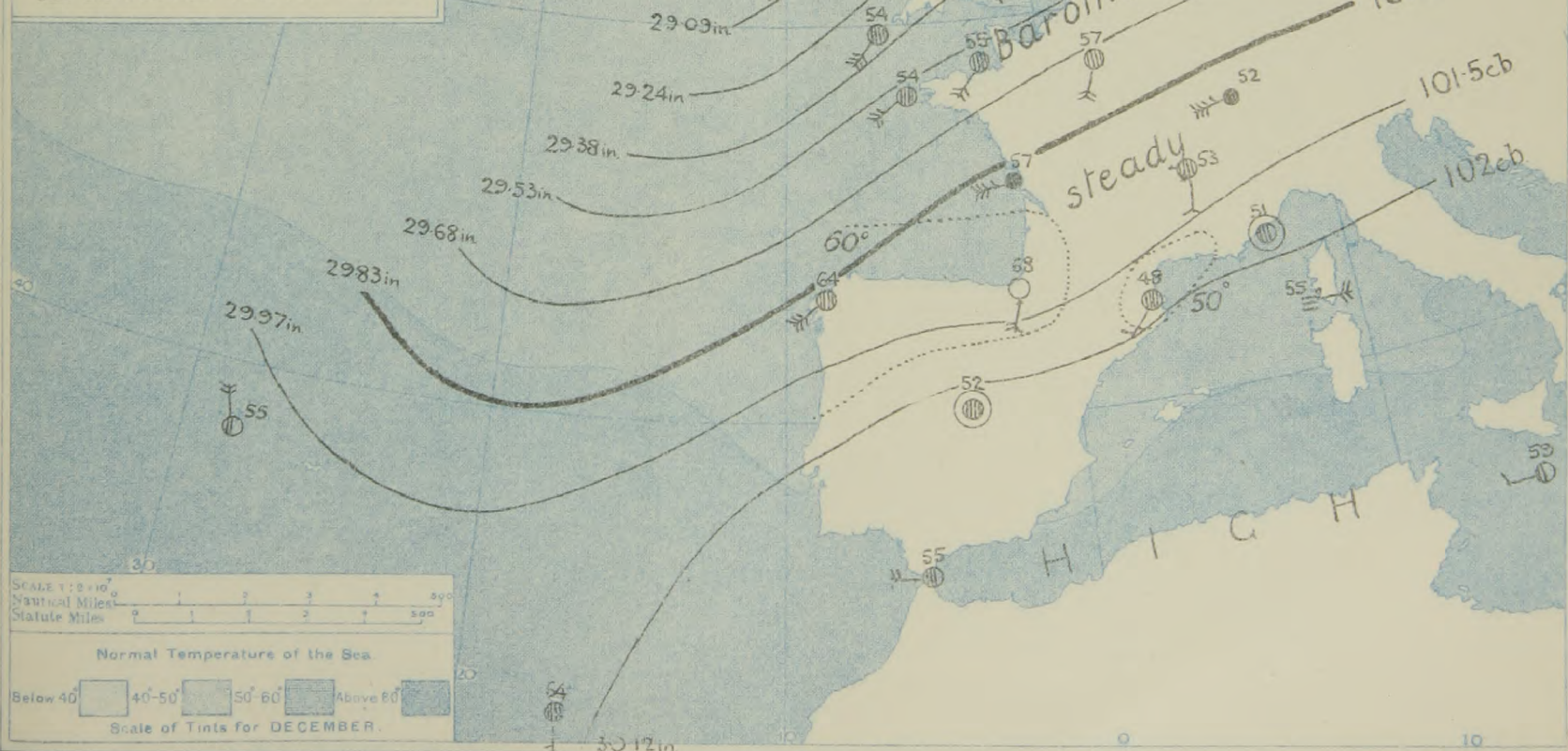
The British Isles will remain under the influence of the depression which is lying to the Westward of Ireland.

### 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. thunder. thunderstorm.  
**SEA DISTURBANCE.**—Rough High





# DAILY WEATHER REPORT.

Friday, 19th December, 1915.

## REPORTS FOR YESTERDAY.

9th December, 1915.

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.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-0.	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.							
Haparanda ...	1004.5	1	E	2	3	1000h	-2	1	+7	NNE	4	-	3	+	-	1	-6	
Hermosand ...	992.7	19	NE	4	5	991.0	0	12	-6	NNE	6	-	5	+	1	21	10	
Stockholm ...	974.6	32	E	8	3	980.7	+10	23	-5	NNW	6	-	0	+	17	34	28	
Visby ...	974.5	39	SW	6	3	984.0	+5	28	-8	NNW	9	-	0	7	8	41	27	
Lisbon ...	1020.2	61	WSW	3	0	1022.3	0	61	-2	SE	2	-	+	+	-	64	61	
Rome ...	1017.3	55	S	1	0	1018.0	0	52	-	NE	1	-	0	+	-	63	50	
Horta ...	"	"	"	"	"	999.8	+4	60	-4	WSW	6	+	0	7	1	66	54	

## 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 5 p.m. Hr.
		Max.	Min.	Forenoon.	Afternoon.				Max.	Min.	Forenoon.	Afternoon.	
		°F.	°F.						°F.	°F.			
Scotland. (Oban ... Banff ... Carnoustie ... St. Andrews ...)	2 1	36 31	26 26	0 b	0 by	0.0 2.0	Tunbridge Wells ...	...	...	...	...	...	...
England, N.E. (Harrogate ... Skegness ...)	5 4	33 41	27 29	c.o o.c	os ogn	0.0 0.0	Margate ...	10	45	37	c.o	o.or	0.0
England, N.W. (Morecambe ... Blackpool ... Southport ...)	1 9	38 37	30 30	o.p om.o	os os	0.0 0.0	Ramsgate ...	5	44	34	sc	r.o	0.0
Midlands. (Buxton ... Leamington Spa ... Malvern ... Ross-on-Wye ...)	8 8 8 13	42 41 41 40	23 32 32 29	of o o o	o o o o	0.0 0.0 0.0 0.0	Hastings ...	15	53	38	o.or	or	0.0
Wales. (Rhyl ... Colwyn Bay ... Llandudno ... Aberystwyth ... Tenby ...)	7 5 ...	38 39 ...	30 32 ...	os o.c ...	o o.c ...	0.0 0.0 ...	Bexhill-on-Sea ...	...	...	...	...	...	...
England, E. (Cromer ... Lowestoft ... Felixstowe ... Walton-on-Naze ... Southend-on-Sea ...)	1 7 7 9	44 43 43 43	31 31 31 35	c.o o om dr	cor or or r	0.0 0.0 0.0 0.0	Eastbourne ...	12	50	34	or	or	0.0
							Seaford ...	20	53	35	r	r	0.0
							Brighton ...	8	50	36	or	or	0.0
							Worthing ...	20	52	34	r	r	0.0
							Littlehampton ...	14	52	34	dr	r	0.0
							Bognor ...	14	52	36	od	or	0.0
							Southsea ...	15	54	35	or	or	0.0
							Bournemouth ...	18	54	32	r	r	0.0
							Weymouth ...	21	55	37	or	r.o	0.0
							Torquay ...	28	55	37	or	r.o	0.0
							Paignton ...	26	56	34	or	r	0.0
							Falmouth ...	32	55	43	rq	rq	0.0
							Penzance ...	23	56	43	or	or	0.0
							Newquay ...	?	55	38	or	or	0.0
							Ilfracombe ...	18	55	39	r	r.o	0.0
							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 Obs.) ...	%	%	Hr.	* F.	* F.	* F.	mm. &			
City (Bunhill Row) ...	97	94	0 0	55	36	32	16	or	or	or oc
Westminster (St. James's Pk.)	*	*	0 0	*	*	*	*	*	*	*
Camden Sq. (Brit. Rainfall)	85	99	0 0	56	39	38	16	or	or u	e or
Hampstead (Reservoir) ...	98	93	0 0	55	37	41	18	om or	or	*
Richmond Park	*	99	0 0	53	50	41	19	or	or	ed
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.)	94	93	0 0	56 Joules		20 Milli-watts.		6 Milli-watts.		

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

19th December 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.54	11.46	3.37
Greenwich ...	7.56	11.53	3.50
Wick ...	8.23	12.5	3.17
Valencia ...	8.41	12.34	4.27

## NOTES ON YESTERDAY'S WEATHER.

Temperature has become very mild in the south and south-west, but is cold in the east of Scotland. Very little sunshine was measured, and rain fell generally yesterday, up to 30 mm. at Falmouth, 27 mm. at Roche's Point and 25 mm. at Dover. Some snow fell in the north.

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. 345

Saturday,  
11th December, 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.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick ...	999.1	36	ENE	4	0	999.2	0	36	+2	NE	3	-	0	3	0.4	37	32	0	0	0	Hours.
	Deerness ...	994.2	38	E	5	or	994.2	0	37	+1	E	5	-	ophr	4	7	38	35	or	or	ophr	0.0
	Stornoway ...	992.9	38	NE	7	or	995.0	0	34	-3	N	6	-	orsq	5	16	40	34	or	or	orsq	0.0
	Castlebay (Barra Isd.)	987.8	41	NE	5	r	994.4	+6	38	0	N	6	-	opq	6	36	41	36	r	r	opq	0.0
	Glasgow ...	988.9	38	S	1	or	985.6	-3	38	+4	ENE	4	-	or	*	24	40	33	or	or	or	0.0
	Esksdalemuir ...	988.1	37	-	0	bm	986.2	-4	41	+6	SSW	3	-	od	*	14	42	34	od	or	or	0.0
	Malin Head ...	987.4	48	WSW	8	or	986.6	+5	42	-8	NW	9	N	opb	6	5	51	39	or	or	or	0.0
	Blackod Point ...	995.9	48	SW	4	b	1000.4	+6	45	-7	NW	6	NW	oe	*	3	51	44	cp	bc	bc	0.0
	Valencia ...	995.9	48	SW	4	b	1000.4	+6	45	-7	NW	6	NW	oe	*	3	51	44	cp	bc	bc	0.0
	Roche's Point ...	997.2	47	WSW	3	c	997.9	0	45	-7	W	4	W	bc	4	1	52	44	opq	or	bc	0.0
	Birr Castle ...	992.9	46	SW	3	c	995.3	0	41	-11	NW	3	-	c	*	8	52	40	or	or	cp	0.0
	Donaghadee ...	987.8	47	W	4	c	986.3	-3	41	-8	W	5	-	c	*	2	51	41	cf	cf	cf	0.0
	Liverpool (Bldston)	991.9	48	SW	4	0	991.0	-4	45	-3	SW	3	W	0	3	1	52	44	or	or	or	2.2
	Holyhead ...	993.1	50	WSW	6	or	989.7	-3	47	-4	WSW	5	W	bcq	5	8	52	46	or	or	or	0.0
	Pembroke (St. Ann's)	998.0	50	WSW	6	or	995.2	-2	49	-3	W	5	W	bcq	5	0.4	52	47	or	or	or	0.0
	Scilly (St. Mary's)	1000.9	51	SW	4	or	999.4	+1	49	-5	W	5	W	bc	5	-	54	48	or	or	or	0.0
	Falmouth ...	1001.7	50	SW	5	c	999.5	+3	47	-6	WSW	3	-	r	4	1	54	46	or	or	or	0.8
	Jersey (St. Aubin)	1004.7	52	SW	3	or	999.6	0	47	-6	WNW	5	-	op	4	24	57	46	or	or	or	0.3
	Portland Bill ...	1000.9	52	SW	5	c	996.6	-2	48	-5	WNW	3	-	c	5	6	54	47	or	or	or	0.0
	Dungeness ...	1000.8	52	WSW	6	b	991.0	-11	48	-5	E	4	E	cp	4	8	54	47	or	or	or	0.0
	Dover ...	1001.9	52	SW	5	b	992.3	-7	44	-9	NW	2	NW	r	4	14	54	44	or	or	or	0.7
	Wick ...	993.0	40	SE	3	0	994.4	-2	40	+1	SE	3	-	0	4	9	41	36	or	or	or	0.0
	Nairn ...	991.0	37	E	2	or	991.7	0	35	+1	E/NE	3	-	or	3	17	37	33	or	or	or	0.0
	Aberdeen ...	989.4	41	E/NE	5	or	990.1	-2	38	0	E/NE	5	-	r	5	12	41	38	or	or	or	0.0
	Leith ...	988.1	42	NW	1	r	986.7	-3	41	+3	E	3	-	r	5	24	42	38	or	or	or	0.0
Tynemouth ...	986.2	45	W	2	or	988.1	-3	44	+4	SW	2	-	ogm	4	8	45	37	or	or	or	0.0	
Spurn Head ...	990.1	49	W	5	or	992.1	-2	42	-1	W	4	-	bcq	4	-	53	40	or	or	or	1.0	
Yarmouth ...	995.4	51	SW	4	bcq	993.5	-5	45	-6	W	2	-	or	3	-	56	44	or	or	or	0.0	
Clacton-on-Sea ...	995.4	49	W	5	bc	994.0	-3	44	-3	WSW	1	-	r	0	2	52	44	or	or	or	0.5	
Nottingham ...	992.9	50	SW	6	0	992.9	0	42	0	SW	2	SW	0	*	0.3	56	42	or	or	or	0.4	
Bath ...	999.0	50	SW	4	c	995.5	0	46	-10	W	1	W	0	*	1	58	43	or	or	or	0.3	
St. Farnborough ...	1000.1	48	SW	4	b	995.3	-4	45	-9	WNW	2	-	or	*	5	55	44	or	or	or	0.6	
London (Kew Obsy.)	999.9	51	WSW	4	b	995.2	-4	45	-9	WNW	2	-	or	*	3	56	45	or	or	or	0.2	
NORTHERN EUROPE.	Spitsbergen ...	1022.3	11	NNE	2	b	1022.1	0	-17	-24	-	0	-	b	*	7	-19	-	-	-	-	
	Vardö ...	1006.0	21	NNE	1	0	1008.0	0	21	+3	E	5	-	s	4	0	21	12	-	-	-	
	Bodö ...	998.0	18	E	5	c	998.3	-1	21	+7	E	4	-	c	2	-	21	14	-	-	-	
	Christiansund ...	1001.3	30	-	0	b	999.1	-2	27	-3	NE	3	-	c	4	-	30	25	-	-	-	
	Skudesnaes ...	996.3	34	SE	3	0	994.3	0	36	0	E	4	-	0	2	-	36	34	-	-	-	
	Færder (Klanfjord)	1001.5	25	NNE	3	0	996.3	-2	25	-11	NNE	6	-	0	2	7	36	23	-	-	-	
	The Scaw (Skagen)	999.3	36	SE	3	0	991.4	0	34	-2	E	5	-	0	5	3	43	32	-	-	-	
	Blaavands Huk ...	990.1	36	SE	6	r	991.4	+2	43	+11	WSW	3	-	0	3	4	43	30	-	-	-	
	Haparanda ...	1003.8	0	N	2	bc	1007.7	+2	-6	-13	N	2	-	b	*	-	7	-6	-	-	-	
	Hernösand ...	1006.3	3	N	2	b	1007.3	0	10	+10	NW	2	-	0	*	-	10	-2	-	-	-	
FRANCE, &C.	Stockholm ...	1005.3	21	-	0	0	999.8	-1	28	+16	E	2	-	0	*	-	28	12	-	-	-	
	Wisby ...	1006.1	30	WSW	2	b	999.9	-5	32	+2	E	4	-	S	*	2	34	27	-	-	-	
	Karlstad ...	1004.3	10	-	0	0	999.1	-3	21	+18	-	0	-	S	*	Trace	21	1	-	-	-	
	Petrograd (S.A.M. G.M.T.)	1004.3	10	-	0	0	999.1	-3	21	+18	-	0	-	S	*	Trace	21	1	-	-	-	
	The Helder ...	995.1	50	SW	7	0	994.6	-5	46	-2	S	3	-	r	4	1	50	46	-	-	-	
	C. Gris Nez ...	1001.9	43	SW	6	0	990.6	-11	54	+2	S	5	-	r	5	7	54	46	-	-	-	
	La Hève ...	1003.8	52	S	3	c	994.7	0	55	+1	W	6	-	0	5	10	55	45	-	-	-	
	Ushant ...	1004.7	51	WSW	4	0	1005.0	+6	50	-4	WNW	5	-	bc	5	9	55	45	-	-	-	
	Brest (St. Mathieu)	1009.7	57	SSW	4	0	1008.7	+9	52	-5	W	7	-	0	*	11	61	52	-	-	-	
	Rochefort (Ile d'Aix)	1013.5	70	SSW	6	0	1014.0	+8	55	-13	WSW	4	-	r	4	2	72	54	-	-	-	
SOUTHERN EUROPE.	Biarritz ...	1013.5	70	SSW	6	0	1014.0	+8	55	-13	WSW	4	-	r	4	2	72	54	-	-	-	
	Paris ...	1007.7	59	SW	3	0	998.6	-5	59	+2	SSW	5	-	0	*	3	61	57	-	-	-	
	Belfort ...	1012.4	59	WSW	7	0	1006.7	0	59	+7	WSW	2	-	c	*	1	60	52	-	-	-	
	Lyons ...	1017.2	57	S	1	0	1009.5	0	64	+11	S	4	-	0	*	-	64	53	-	-	-	
	Nice ...	1018.4	52	-	0	0	1020.7	+1	51	0	-	0	-	c	3	-	57	48	-	-	-	
	Perpignan ...	1018.1	54	-	0	0	1013.5	-3	52	+4	-	0	-	f	*	-	63	48	-	-	-	
	Sanguinaire ...	*	58	E	2	0	*	*	56	+1	E	2	-	f	3	-	61	50	-	-	-	
	Corunna (7 a.m.)	1005.7	64	SSW	8	c	1012.2	+2	52	-12	SSW	6	-	0	4	4	66	50	-	-	-	
	Madrid (8 a.m.)	1021.3	55	-	0	c	1019.5	+2	50	-2	SW	1	SW	bc	*	2	57	50	-	-	-	
	Lisbon (9 a.m.)	1022.3	58	W	2	b	1021.7	0	63	+8	W	5	-	bc	3	-	65	54	-	-	-	
	Gibraltar ...	1022.3	58	W	2	b	1021.7	0	63	+8	W	5	-	bc	3	-	65	54	-	-	-	
	Rome ...	*	*	*	*	*	1025.0	0	59	0	WSW	2	-	0	1	-	66	57	-	-	-	
	Malta (8 a.m.)	*	*	*	*	*	1025.0	0	59	0	WSW	2	-	0	1	-	66	57	-	-	-	
	Azores (Horta, 8 a.m.)	1021.7	66	NW	5	b	1026.4	0	58	+3	-	0	-	0	2	-	61	55	-	-	-	
	Madeira (Funchal)	1020.7	66	N	4	c	1025.1	+1	61	-3	N	3	N	0	3	-	72	61	-	-	-	

## GALES.

Duration and Extreme Force  
in British Islands.

Blackod Point:- 10th. 14th.-19th.  
WSW 8.

11th. 2h.-7h.  
NNW 9.

Valencia:- 10th. 7h.-8h.  
WSW 8.

Holyhead:- 10th. 15h.  
W 8. Gust 22 m.p.s.

Pembroke:- 10th. 8h.-15h.  
WSW 8.

Extreme: WSW 9 at 9h.

Scilly:- 10th. 8h.  
WSW 8.

Aberdeen:- 10th. 13h.  
Gusts E 17 m.p.s.

London (Kew Obsy.) 10th. 10.45h.-13h.  
WSW 8.

Gust WSW 23 m.p.s. at 11.30h.

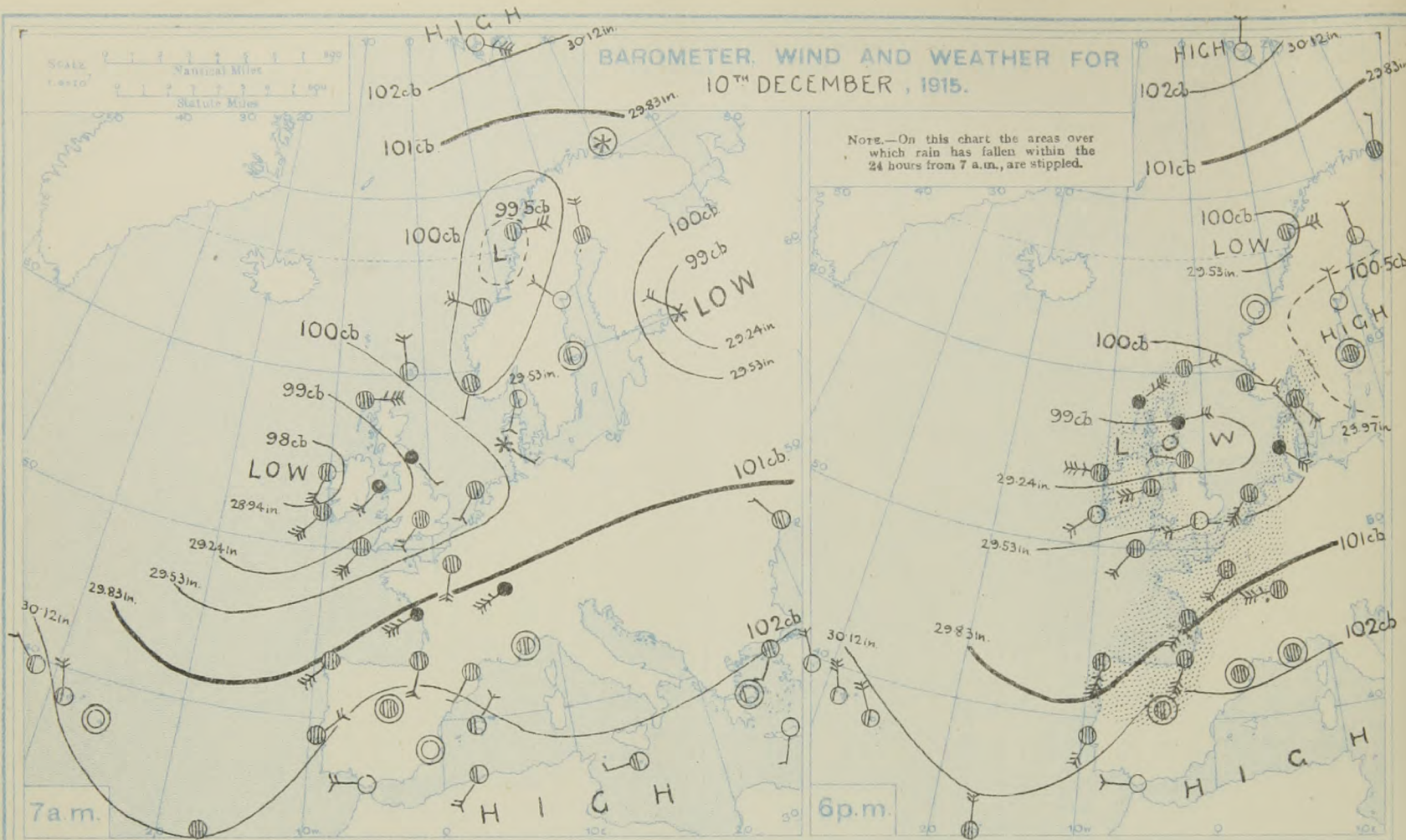
Gust WSW 18 m.p.s. at 16.55h.

South Farnborough: 7.45 a.m.

Pilot Balloon Ascent:-

Wind at 1000 metres NW by W 28 miles per hour.  
500 NW by W 18 .. .. .





**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 | Fresh or strong North-Easterly winds; dull, with rain or snow, then improving somewhat; cold.                 |
| 1  | b |   |
| 2  | a | Light variable winds, becoming Northerly; some rain or sleet, then improving; cold.                           |
| 3  | b |   |
| 4  | a | Fresh Westerly or North-Westerly winds; fair, some showers; temperature about normal.                         |
| 5  | b |   |
| 6  | a | Strong Northerly or North-Westerly winds; fair weather, with showers of rain or snow; cold.                   |
| 7  | b |   |
| 8  | a | Same as Nos. 3 to 5.  |
| 9  | b |   |
| 10 | a | Strong Northerly or North-Westerly winds; weather dull and showery, improving; temperature rather cold.       |
| 11 | b |   |
| 12 | a | Strong Westerly or North-Westerly winds, decreasing later; fair, some showers; sea rough; temperature normal. |
| 13 | b |   |

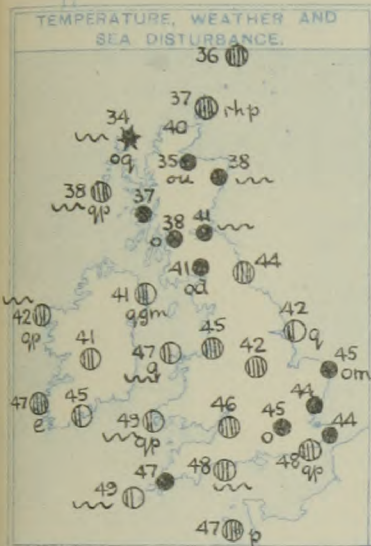
**FURTHER OUTLOOK.**



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

## GENERAL INFERENCE.

The depression to the north of Ireland will move in an easterly direction to the North Sea.



## 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.

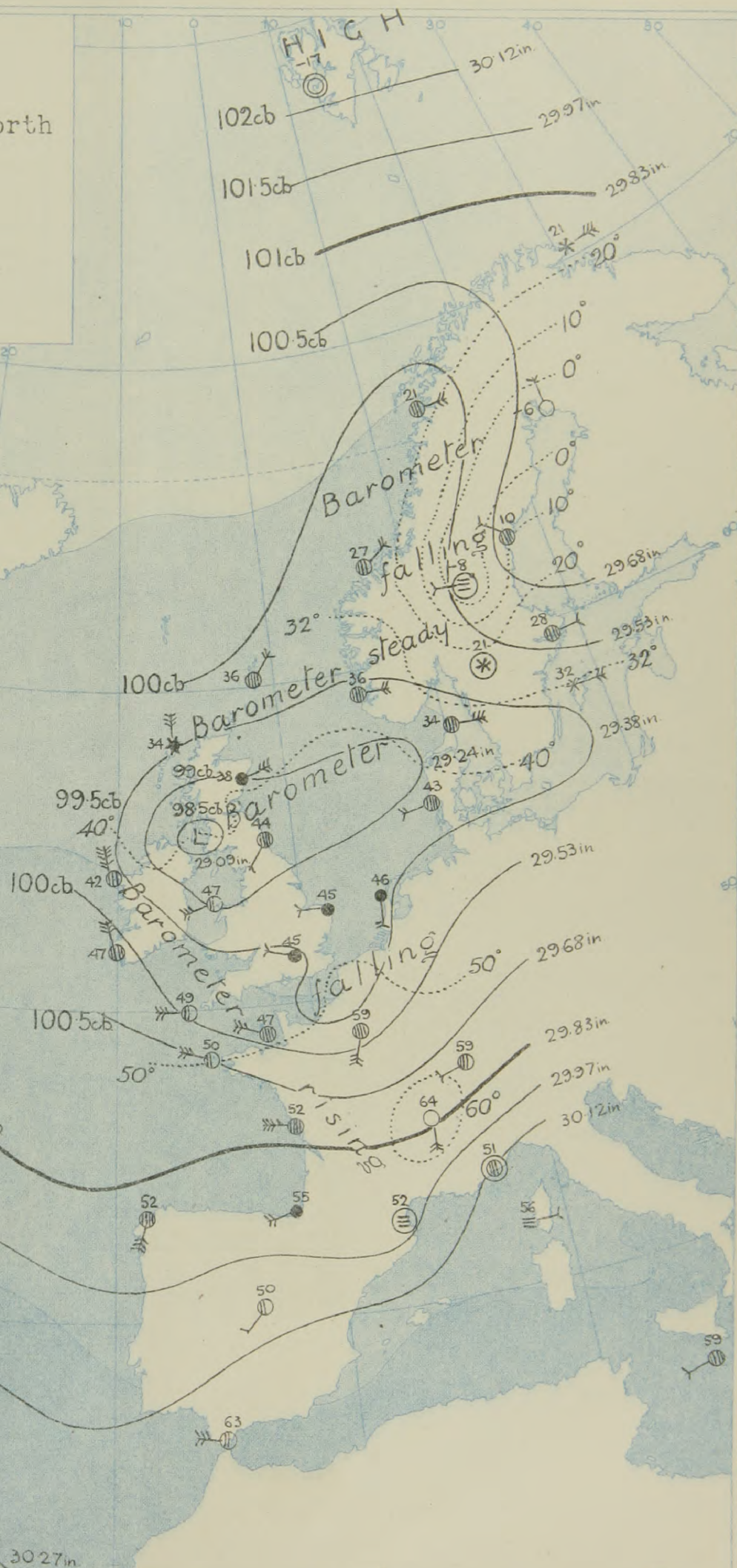
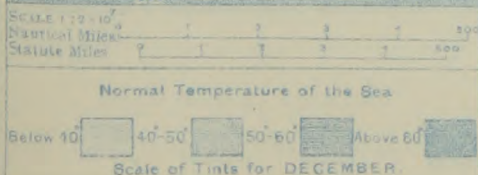
**WEATHER.**—Shown by the following symbols:—  
 clear sky. sky 1/2 clouded. sky 3/4 clouded. overcast sky. rain falling. snow. hail. fog. mist. thunderstorm. thunderstorm.

**SEA DISTURBANCE.**—Rough High

inches  
31

30

29





## DAILY WEATHER REPORT.

Saturday, 11th December, 1915.

REPORTS  
FOR  
YESTERDAY.

10th December, 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.				Hr.		mm. & ° F.	° F.			Hr.			
Scotland.	{ Oban ... ..	7	43	33	r	o	0.0	{ Tunbridge Wells ... ..	...	...	...	...	...		
	{ Banff ... ..	11	39	24	rs. r	r	0.0		{ Margate ... ..	3	58	42	o	c. bc	0
	{ Carnoustie ... ..	...	...	...	...	...	...		{ Ramsgate ... ..	?	56	42	od	e	0.4
	{ St. Andrews ... ..	18	43	30	*	*	0.0		{ Hastings ... ..	5	54	50	or. o	o. bc	0.2
Eng. N.E.	{ Harrogate ... ..	13	46	31	ro	c. br.	0.0	England, S.E.	{ Bexhill-on-Sea ... ..	...	...	...	...	...	
	{ Skegness ... ..	5	54	36	oe	og. o	0.3		{ Eastbourne ... ..	18	56	49	or	bcq	1.3
Eng. N.W.	{ Morecambe ... ..	6	46	34	ro	or	0.0		{ Seaford ... ..	...	...	...	...	...	
	{ Blackpool ... ..	20	52	35	orm. o	or. og	0.1		{ Brighton ... ..	...	...	...	...	...	
	{ Southport ... ..	10	54	32	or	od. o	0.7		{ Worthing ... ..	2	53	49	o. bc	b. bc	1.0
									{ Littlehampton ... ..	2	53	50	o	b. bc. o	1.4
Midlands.	{ Buxton ... ..	...	...	...	...	...	...		{ Bognor ... ..	5	53	50	op	o	1.3
	{ Leamington Spa ... ..	1	56	38	ap. o	o. c. bc	0.1		{ Southsea ... ..	1	55	42	o	bc.	2.0
	{ Malvern ... ..	2	54	39	c. bc	bc.	0.5		{ Bournemouth ... ..	5	55	43	o	c. o	1.7
	{ Ross-on-Wye ... ..	2	55	50	c. p.	bcq	0.2								
Wales.	{ Rhyl ... ..	2	55	34	p. og	p. c	0.0	{ Weymouth... ..	1	55	51	o. bc	bc.	0.9	
	{ Colwyn Bay ... ..	1	55	33	cp	bc. p	0.8		{ Torquay ... ..	1	55	51	c. bc.	bc. c	1.8
	{ Llandudno ... ..	...	...	...	...	...	...		{ Paignton ... ..	2	55	48	bc	o	1.9
	{ Aberystwyth ... ..	3	52	43	ro. c	c. o	0.0		{ Falmouth ... ..	2	54	50	od. c	og.	0.8
	{ Tenby ... ..	3	53	42	bc	bc. o	0.0		{ Penzance ... ..	2	54	51	o. bc	bc. c. o	0.4
England, E.	{ Cromer ... ..	...	...	...	...	...	...	{ Newquay ... ..	*	53	49	o	o	0.3	
	{ Lowestoft ... ..	8	55	31	o. c. o	o. c	0.0		{ Ilfracombe ... ..	1	54	45	o	o	0.0
	{ Felixstowe ... ..	5	54	35	omp	bc.	0.3		{ Weston-super-Mare ... ..	3	56	47	cr. c	c	0.0
	{ Walton-on-Naze ... ..	3	53	42	cm. bc	c. bc	0.3								
	{ Southend-on-Sea ... ..	5	54	41	o. c. bc. b	b	1.4								

## 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.		Night.
	%	%		Max.	Min.	Min. on Grass.		24 HOURS ENDED 9 A.M. TO-DAY.		
Greenwich (Royal Obs.) ...	71	86	10	56	44	39	5	0.0	0.0	0.0
City (Runhill Row) ...	*	*	0.3	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	75	86	0.6	57	44	40	4	0.0	0.0	0.0
Camden Sq. (Brit. Rainfall)	70	89	0.6	57	44	41	4	0.0	0.0	0.0
Hampstead (Reservoir) ...	*	93	0.3	55	41	34	3	0.0	0.0	0.0
Richmond Park ...	*	*								
Kew. (See front page.)	*	*								
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	72	90	0.5	52	40	34	3	0.0	0.0	0.0
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
Total.				Average Rate.		Max. Rate.				
152 Joules				54 Milliwatts.		21 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.					
Dublin to 4 p.m.	mm.‡	° F.	° F.	° F.				Hr.
Darwen to 9 p.m.	4	53	47	42	or	97.0	bcg	*
Manchester "				*				
Birmingham "					*			
Oxford to 8 p.m.	*							*
Teignmouth to 9 "	1	56	51	50	079.0	076	bc	1.8
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	1	57	40	38	074.0	070.0	070.0	*

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

11th December 1915.	Sunrise.			Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.		
Yarmouth ...	7.56	11.46	3.37		
Greenwich ...	7.57	11.47	3.36		
Wick ...	7.58	11.54	3.49		
Valencia ...	8.55	12.6	3.16		
	8.41	12.34	4.23		
	8.42	12.25	4.23		

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained very mild in the South, reaching 58° at Bath. The day was dull, with much rain and some sleet in the North, 36 mm. at Castlebay, but there were fair intervals in the South.

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. 346

Sunday  
12 December 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. °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	998.1	34	NNE	5	eq	1001.2	+3	32	N	5	N	bcq	4	3	37	28	osqp	osqp	bcqap	Hours.		
	Deerness	996.3	36	NE	6	ogph	1000.7	+3	35	N	7	N	oghp	6	3	39	31	op.c	op.c	oghp	0.0		
	Stornoway	997.6	33	N	3	osq	1010.8	+3	36	NE	7	N	bcq	6	13	36	32	osq	osq	bcqap	0.0		
	Castlebay (Barra Isd.)	995.0	38	W	3	o	1014.1	+5	38	N	5	N	ohp	5	8	39	31	osqp	osqp	osqhp	0.5		
	Glasgow	994.2	34	NW	2	o	1009.7	+6	31	W	2	N	b	6	6	39	3	osq	osq	osqhp	0.0		
	Esksdalemuir	992.7	34	NNW	5	os	1008.3	+6	30	NW	5	N	o	6	2	41	24	os	os	osqhp	0.0		
	Malin Head	997.1	37	NNW	5	ogsp	1012.5	+5	38	NNW	7	N	ogsp	6	12	40	33	bcq	bcq	ogsp	0.0		
	Blacksod Point	1002.2	38	NNW	8	ogph	1016.5	+9	29	NNE	8	NE	oghp	6	4	41	32	ogp	ogp	oghp	0.0		
	Valencia	1008.1	42	NW	5	chp	107.5	+12	42	N	7	N	c	4	4	46	35	d.o.cq	cp.b	chp.c	1.6		
	Roche's Point	1007.3	39	WNW	4	bc	1013.6	+	36	NW	4	NW	c	4	2	47	34	bcqp	bcqp	bcqp	0.0		
	Birr Castle	1004.3	34	N	3	bc	1014.3	+	34	N	2	N	o	4	1	42	29	b	bc	osq	3.3		
	Donaghadee	996.8	36	NW	7	bmq	1009.9	+6	39	NE	5	NE	bmq	4	4	42	32	cmq	bmq	bc.c.os	0.0		
	Liverpool (Bidston)	996.2	36	WSW	7	o	1006.9	+8	36	NNW	3	N	o	3	4	45	32	ogp	ogp	os	0.5		
	Holyhead	997.0	42	WNW	8	og	1008.2	+8	41	NNE	7	N	ogp	6	2	47	34	ogp	ogp	bc.c.o	0.0		
	Pembroke (St. Ann's)	1003.7	43	NW	5	bcq	1007.3	+3	36	N	3	N	oghp	3	2	49	34	og	bcq	bcqhp	0.6		
	Scilly (St. Mary's)	1006.4	45	NNW	4	og	1005.9	+1	37	N	2	NW	o	5	6	52	36	bcqp	bcqp	osq	4.3		
	Falmouth	1006.1	44	NW	3	r	1006.8	+4	35	NE	3	N	b	6	6	51	32	bcqp	bc	chp.b	3.9		
	Jersey (St. Aubin)	1005.0	50	W	4	b	1003.4	+	40	WSW	3	N	op	3	9	53	39	gp.c.b	bc.b	og.r.p	3.0		
	Portland Bill	1002.8	47	WNW	5	bc	1004.8	+1	37	NNW	4	N	o	4	1	52	35	c.b.c	cp.bc	bc.c.o	0.0		
	Dungeness	?	48	SW	6	bc	1002.8	0	35	WNW	2	N	o	2	6	51	34	p.bc	bcp	bc.c.o	0.0		
	Dover	1000.9	45	SW	4	b	1002.0	0	34	NW	3	N	bc	2	5	50	34	r.o.c.b	bc.r.o.b	b.b.c	5.2		
NORTHERN EUROPE.	Wick	995.6	35	ENE	4	o	1002.1	0	34	N	5	N	?	4	1	40	30	omp	omhp	chp.3.l	0.0		
	Nairn	996.1	34	ENE	3	urs	1006.6	+	36	NNW	6	N	ogp	5	8	37	29	dg.o	r.rs.o	hqp.c	0.0		
	Aberdeen	992.2	37	N	4	o	1003.3	+1	33	WNW	5	N	ogp	4	8	38	32	ogp	ogp	chp	0.0		
	Leith	991.5	37	NE	4	o	1008.4	+3	34	W	1	N	b	3	6	41	34	r	r	r.o.c.b	0.0		
	Tynemouth	984.9	39	N	4	omq	1004.4	+7	34	NNW	3	N	bm	3	3	45	34	bm	ogmp	bm	0.0		
	Spurn Head	987.7	43	WNW	9	c	1002.2	+5	40	NNE	6	N	bcqp	6	5	46	33	bcqp	o.g	bcq	2.0		
	Yarmouth	993.3	45	W	7	bc	1000.8	+1	38	WNW	3	N	bc	3	6	48	33	omr.bc	bc	bc	1.7		
	Clacton-on-Sea	998.3	44	WSW	4	bc	1002.3	+1	33	WNW	2	N	c	1	10	48	43	ogp.em	em.bc	bc	1.2		
	Nottingham	995.0	43	W	6	o	1003.6	+	33	NW	3	NW	s	4	4	48	32	o.c	cp.o	o.c.b	1.6		
	Bath	1001.8	42	W	3	b	1006.1	+	32	W	1	W	o	1	52	31	op.b.c	c.b.c.b	b.b.c.o	3.3			
Sth Farnborough	1001.2	41	W	2	b	1004.1	+2	28	WNW	1	N	b.c	2	50	27	c.b.c	bcp.b.c	b.b.c	3.2				
London (Kew Obsy.)	1000.6	43	WSW	4	b	1004.5	+2	32	WSW	1	N	bm	2	50	32	or.om.b.c	c.gp.b.c	b.b.m	2.1				
FRANCE, &c.	Spitsbergen	1019.5	41	SW	2	s	1016.7	0	49	+	0	+	s	+	+	49	22						
	Vardö	1006.4	21	E	2	o	1009.5	0	21	ENE	2	N	o	2	+	21	12						
	Bodö	1000.3	18	E	4	bc	999.9	0	16	E	4	N	bc	2	+	21	14						
	Christiansund	996.2	27	+	0	b	994.7	0	28	SE	3	N	o	4	1	23	25						
	Skudesnaes	989.3	18	+	0	o	989.2	0	30	NE	3	N	c	2	?	36	28						
	Færder (X'lania Fjord)	986.9	28	NNE	7	s	985.3	+4	28	N	6	N	o	2	?	28	25						
	The Scaw (Skagen)	984.4	34	+	0	s	987.5	+4	34	N	4	N	s	4	4	36	32						
	Blaavands Huk	987.0	44	WSW	3	o	991.0	+7	36	NW	4	N	o	5	8	43	34						
	Haparanda																						
	Hernösand																						
SOUTHERN EUROPE.	Stockholm																						
	Wisby																						
	Karlstad																						
	Petrograd (5 a.m. G.M.T.)																						
	The Helder	993.3	48	SW	7	c	998.6	+2	41	NNW	4	N	o	5	6	48	39						
	C. Gris Nez	1000.7	48	SW	8	bc	1002.9	+1	38	NNW	4	N	o	4	4	55	37						
	La Hève	1004.0	48	SW	6	c	1003.9	+	37	ENE	2	N	c	2	11	54	36						
	Ushant																						
	Brest (St. Mathieu)	1007.5	48	W	3	o	1006.9	0	43	NW	6	N	c	4	4	54	?						
	Roche fort (Ile d'Aix)	1011.3	52	SSW	5	c	1005.2	0	46	NW	5	N	r	7	61	48							
SOUTHERN EUROPE.	Biarritz	1012.2	57	S	3	b	1009.1	-2	57	SW	5	N	o	5	61	55							
	Paris	1008.8	50	SSW	3	c	1003.3	+5	34	N	4	N	s	12	61	34							
	Belfort	1014.9	46	WSW	6	o	1007.5	+	47	WSW	4	N	c	1	61	43							
	Lyons	1015.8	52	+	0	o	1008.6	+	49	SW	3	N	c	1	65	42							
	Nice	1016.3	52	+	0	o	1014.7	+1	50	+	0	N	b	3	1	55	48						
	Perpignan	1016.0	52	NE	1	c	1012.3	-2	41	SW	1	SW	c	+	64	39							
	Sanguinaire																						
	Corunna (7 a.m.)	1008.6	54	SSW	3	o	1022.7	+12	52	NNW	6	N	c	6	22	55	50						
	Madrid (8 a.m.)	1019.9	50	W	2	b	1019.0	+1	48	SSW	1	N	bc	+	Trace	55	45						
	Lisbon (9 a.m.)	1018.1	59	SW	5	bc	1021.3	+3	53	NW	2	N	b	+	1	63	53						
Gibraltar																							
Rome																							
Malta (8 a.m.)						1022.1	0	57	SW	2	N	bc	1	+	64	55							
Azores (Horta, 8 a.m.)						1029.0	+1	59	SSW	5	N	o	2	+	64	59							
Madeira (Funchal)	1025.5	64	N	2	c	1026.9	+	59	+	?	N	bc	+	+	66	59							

**GALES.**  
Duration and Extreme Force in British Islands.

Stornoway  
Between 7 a.m. 11th & 7 a.m. 12th  
3 gales N. S.

Malin Head  
11th 7 a.m. - 12th 12 a.m. N. S.  
Ex. N. 9 at 1 p.m. 11th.

Blacksod Point  
11th 7 a.m. - 12th 7 a.m. NNW 8  
Ex. NNW 9 at 9 p.m. 11th.

Valencia  
12th 2 a.m. - 3 a.m. NW 8  
Ex. NW 9 at 3 a.m. 12th.

Donaghadee  
11th 11 a.m. - 2 p.m. NW 8

Liverpool  
11th 1 p.m. - 6 p.m. WSW 8

Holyhead  
11th 1 p.m. - 9 p.m. WNW 8  
Ex. WNW 9 at 1 p.m.

Scilly  
11th 11 p.m. 3 gales W. 9

Aberdeen  
11th 3 gales NE 20 metres per second.  
11th 10 a.m. - 11th 10 p.m. NE 8  
11th 10 a.m. - 11th 10 p.m. WNW 18

Spurn Head  
11th 3 p.m. - 10 p.m. WNW 8  
Ex. WNW 9 at 6 p.m. 11th.

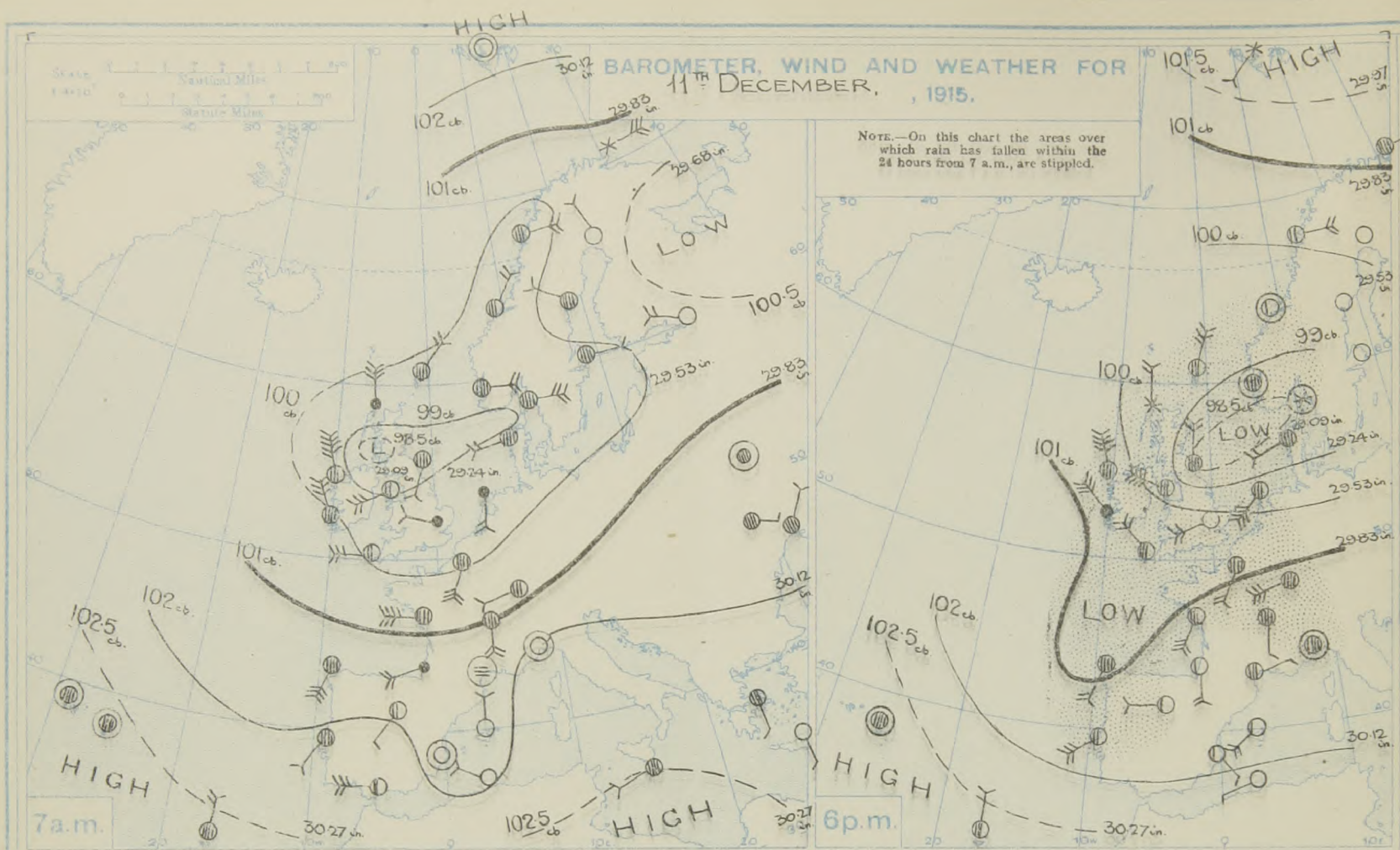
Nottingham  
11th 4 p.m. W 8

\* 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 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

Fresh or strong Northerly winds; snow or hail showers; cold.

Moderate or fresh Northerly or North-Westerly winds; sleet or snow showers, fair intervals; cold.

Same as Nos. 0 to 2

Moderate or fresh Northerly winds; hail, sleet or snow showers; cold.

Fresh or strong Northerly winds, decreasing later; snow or hail showers, then improving; cold.

Winds from between North and North-East, moderate or fresh; some hail or sleet showers, improving; cold; sea rather rough.

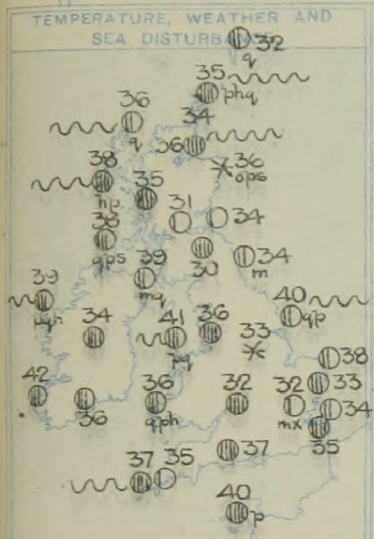
**FURTHER OUTLOOK.**



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

## GENERAL INFERENCE.

Pressure is rising generally, but the North current is likely to remain fresh over the British Isles for the present.



## EXPLANATION.

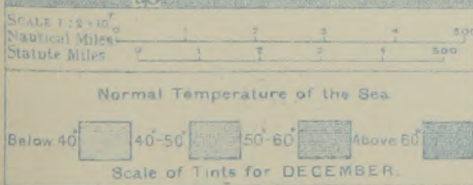
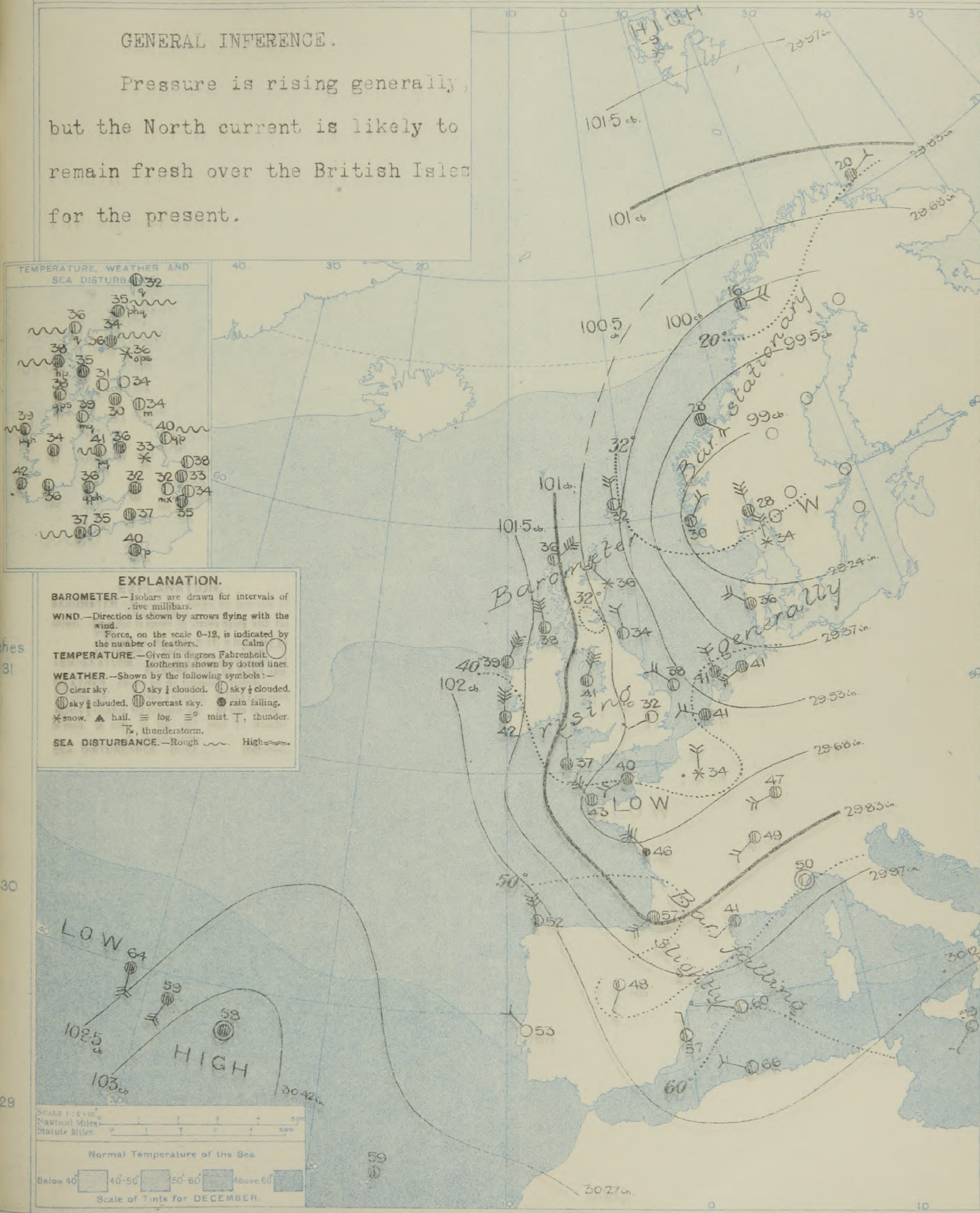
**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**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.

Sunday, 12<sup>th</sup> December 1915.

REPORTS  FOR  YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., G.M.T.										Rain- fall. Milli- metres.	
		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.	° F.												
Molix Head ...	984.5	47	SW	3	OMR	987.3	+1	44	-	NW	8	-	omg	7	9	50	39	
Petrograd ...	994.8	7	WNW	4	S	1005.6	+2	1	-13	WNW	3	-	3	+	-	16	0	
Lisbon ...	1016.7	63	S	5	0	1020.4	0	57	-4	SW	2	-	0	4	6	63	55	
11 <sup>th</sup> December																		

11<sup>th</sup> December

## 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 ... ..	34	38	36	or	h	00	{ Tunbridge Wells ... ..						
	{ Banff ... ..	15	39	36	h.s.r	h.s.o	00	{ Margate ... ..	13	51	43	or	c. bc	2
	{ Carnoustie ... ..							{ Ramsgate ... ..	15	47	41	r. bc	c	36
	{ St. Andrews ... ..				*	*		{ Hastings ... ..	19	51	42	or. bc	bc. op	28
Eng. N.E.	{ Harrogate ... ..	1	43	37	o.c	r. o. bc. b	03	{ Bexhill-on-Sea ... ..						
	{ Skegness ... ..	-	48	41	or	c	26	{ Eastbourne ... ..	18	51	43	or	o. bc	34
								{ Seaford ... ..	19	51	42	bc	c	43
								{ Brighton ... ..	?	?	?	o. c. bc	bc. bc. b	?
Eng. N.W.	{ Morecambe ... ..							{ Worthing ... ..	16	51	44	bc	bc. p	43
	{ Blackpool ... ..							{ Littlehampton ... ..	13	51	45	bc. b	bc	36
	{ Southport ... ..	2	45	40	op	o. bc	03	{ Bognor ... ..	12	52	44	bc. bc	bc. p	40
								{ Southsea ... ..						
Midlands.	{ Buxton ... ..							{ Bournemouth ... ..	5	52	43	8	bc.	50
	{ Leamington Spa ... ..	0.4	49	41	bc. cp	bc. b	40							
	{ Malvern ... ..													
	{ Ross-on-Wye ... ..	0.4	48	40	bc. q	bc. p. b	23							
Wales.	{ Rhyl ... ..							{ Weymouth ... ..	5	52	45	bc	bc	40
	{ Colwyn Bay ... ..							{ Torquay ... ..	3	52	44	bc. b	bc	36
	{ Llandudno ... ..							{ Paignton ... ..	4	52	44	bc. p	bc	38
	{ Aberystwyth ... ..	1	46	41	h. o. c	c. o	02	{ Falmouth ... ..						
England, E.	{ Tenby ... ..	1	47	45	bc. o	bc	06	{ Penzance ... ..	1	53	46	p. bc	bc. c	40
	{ Cromer ... ..							{ Newquay ... ..	?	50	45	c. bc. p	bc. c	28
	{ Lowestoft ... ..							{ Ilfracombe ... ..						
	{ Felixstowe ... ..	9	48	42	or. bc	bc	17	{ Weston-super-Mare ... ..						
England, E.	{ Walton-on-Naze ... ..	10	48	42	or. mg. bc	bc. b	12							
	{ Southend-on-Sea ... ..	10	50	43	or.	bc	24							

## 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) ...	74	76	2.9	50	32	27	1	bc. bc	cp. bc.	b bx
Westminster (St. James's Pk.)	*	*	0.6	*	*	*	*	*	*	*
Camden Sq. (Brit. Rainfall)	85	83	2.2	51	31	25	-	b-c-o	bc. bc. m	bc. m.
Hampstead (Reservoir) ...	78	86	0.8	50	29	27	-	om c	bc	*
Richmond Park	*	8.4	0.9	48	28	14	-	cp. bc	bx	bc
Kew. (See front page.)	*	*	2.1	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.)	79	79	1.7	192	Joules	68	Milliwatts.	18	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.					
Dublin to 4 p.m.	mm.‡	° F.	° F.	° F.				Hr.
Darwen to 9 p.m.	-	43	38	35	q. d. o	a. c. d. q	z. y. c	*
Manchester "				*				
Birmingham "					*			
Oxford to 8 p.m.	*	50	37	31	c. o. c	c	c. d. c	*
Teignmouth to 9,,	4	52	41	39	z. p. b. c	z. c. p	z. c. b	5.4
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	5	51	44	38	d. q. o	o. o. p.	c. d. c. d	*

## NOTES ON YESTERDAY'S WEATHER.

There was a general decrease of temperature, but it was still above 50° at many southern stations. Rain fell in all districts, 13 mm. at Stornoway. Locally there was hail or snow. Some northern stations had no sunshine, but in the south Bournemouth had five hours. A N.W. gale was felt in many places.

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.



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 347.

Monday  
13<sup>th</sup> December, 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. 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.					
BRITISH ISLANDS.	Lerwick ...	1011.4	34	NNW	6	bcg	+1	33	+1	NNW	3	NW	bc	3	2	38	28	cg, sp	bcg	bcg	Hours. 0.0		
	Deerness ...	1013.9	36	N	6	bcphg	+	34	-1	N	6	-	cpn	5	3	38	31	opn	bcphg	bcph	0.1		
	Stornoway ...	1021.6	35	N	6	cpbg	+1	36	0	N	4	-	c	4	9	37	33	cpbg	cpbg	cpbg	0.2		
	Castlebay (Barrisd.)	1023.5	37	NNW	6	ashpg	0	42	+4	NNW	5	-	c	5	4	42	32	shpg	shpg	shpg	2.5		
	Glasgow ...	1018.7	32	NW	2	b	+2	34	+3	N	3	-	b	*	35	30	c	bc	b	3.8			
	Esksdalemuir ...	1016.0	31	NW	6	b	+1	29	-1	NNW	4	-	bx	*	33	20	ofo	bc	bcx	0.6			
	Malin Head ...	1022.7	37	N	8	cpb	0	43	+5	NNW	5	NW	cg	6	7	42	32	bcph	cpb	cp	*		
	Blacksod Point ...	1028.3	39	NNE	8	cpb	0	38	-1	NNW	3	NW	cm	4	1	39	33	cpb	cpb	cm	2.9		
	Valencia ...	1030.1	40	N	3	bc	0	34	-8	ENE	1	N	c	4	2	42	33	c	cp	bc	*		
	Roche's Point	1028.0	38	NNW	4	b	0	33	-3	NNW	2	-	b	2	40	32	bc	b	b	4.9			
	Birr Castle ...	1027.2	32	N	1	c	0	29	5	N	1	-	bc	*	36	26	cp	cp	bcx	3.6			
	Donaghadee ...	1014.8	38	N	5	cmgph	+2	36	-3	N	5	N	bcg	4	2	40	33	cmgph	cmgph	bcph	1.4		
	Liverpool (Bldston)	1018.1	37	NNW	5	bc	+2	38	+2	NNW	4	NW	b	4	39	34	bc	bc	bc	2.8			
	Holyhead ...	1020.2	41	N	8	opbg	+2	42	+1	NNW	6	-	cg	6	2	44	37	cp	opbg	bc	3.1		
	Pembroke (St. Ann's)	1022.2	37	N	5	bcg	+3	39	+3	NNW	4	N	bc	4	2	43	34	bc	bc	bc	2.9		
	Scilly (St. Mary's)	1023.1	43	N	6	c	+4	42	+5	NNW	5	N	cg	6	3	45	34	cp	cp	cg	0.0		
	Falmouth ...	1022.4	36	NNE	2	b	+2	37	+2	NNW	3	-	b	*	42	31	bcph	cp	bcph	0.3			
	Jersey (St. Aubin)	1015.8	42	N	3	cg	+	41	+1	NNW	3	-	b	3	13	42	33	poro	cg	bc	*		
	Portland Bill ...	1017.7	36	N	4	bc	+9	35	-2	NW	3	-	b	3	39	34	bc	bc	bc	0.6			
	Dungeness ...	1013.0	33	NNW	3	b	+7	28	-7	NW	1	-	b	1	38	28	ac	op	bcx	1.2			
Dover ...	1012.6	33	NW	5	b	+5	30	-4	NNW	4	-	b	3	0.2	38	30	bc	bc	b	*			
Wick ...	1004.7	33	N	5	s	+1	34	0	NNW	4	-	bc	4	6	36	30	op	bc	bc	0.0			
Nairn ...	1017.6	34	NNW	2	c	0	33	-3	NNW	1	-	bc	2	2	37	30	op	bc	bc	0.3			
Aberdeen ...	1014.9	34	NW	5	csq	0	31	-2	NNW	4	-	b	3	10	36	30	ac	bc	bc	2.4			
Leith ...	1016.7	34	N	1	c	+1	32	-2	NW	1	NW	bc	*	37	31	bc	bc	bc	0.2				
Tynemouth ...	1012.7	35	NNW	3	b	+2	30	-4	NNW	2	-	bc	4	36	30	bc	bc	bc	0.6				
Spurn Head ...	1011.8	32	N	7	og	+1	30	-10	N	7	-	bc	7	1	40	30	bc	bc	bc	0.0			
Yarmouth ...	1011.0	33	N	5	ogms	+2	31	-7	NW	3	-	bc	3	6	40	30	bc	bc	bc	0.0			
Clacton-on-Sea	1012.8	34	NNW	3	b	+3	31	-2	NW	3	-	b	2	38	31	c	bc	bc	0.0				
Nottingham ...	1015.4	34	NW	4	b	0	31	-2	NNW	2	-	b	*	36	29	ac	bc	bc	2.5				
Bath ...	1016.6	34	NW	-	b	0	31	-1	NW	-	-	b	0.2	39	30	ac	bc	bc	0.2				
Sth Farnborough	1016.0	33	NNW	2	b	+3	26	-2	NW	1	-	bx	0.4	35	25	bc	bc	bc	0.6				
London (Kew Obsy.)	1016.6	34	NW	2	b	+3	30	-2	N	1	-	bm	0.2	36	30	bc	bc	bc	0.0				
NORTHERN EUROPE.	Spitsbergen ...	1016.4	22	-	0	o	+2	-31	-22	S	2	-	b	*	-8	-35							
	Vardö ...	1008.4	16	-	0	o	0	12	-9	SW	2	-	o	2	21	14							
	Bodö ...	1001.9	16	E	4	c	+1	14	-2	E	4	-	o	2	16	12							
	Christiansund	999.5	28	S	2	o	+5	27	-1	NE	3	-	c	4	30	27							
	Skudesnaes ..	998.0	28	N	4	b	0	37	-7	NNW	6	-	o	2	37	27							
	Færder (X'ania Fjord)	997.2	19	NE	4	s	+2	23	-5	NNW	1	-	b	1	28	19							
	The Scaw (Skagen)	994.9	28	NE	3	o	+5	27	-7	N	4	-	c	4	34	23							
	Blaavands Huk	997.9	36	NNW	4	s	+2	32	-4	NNW	1	-	c	5	37	25							
	Haparanda ...	1004.8	3	N	2	o	-2	5	-	NE	4	-	o	*	7	?							
	Hernösand ...	997.6	9	NNW	8	o	0	7	-	NW	6	-	o	*	12	5							
FRANCE, &c.	Stockholm ...	991.5	18	NW	2	o	+3	10	-	NNW	2	-	o	*	26	9							
	Wisby ...	992.3	28	NNW	4	o	+3	25	-	N	4	-	o	*	39	23							
	Karlstad ...	996.4	12	NNE	2	o	+4	7	-	NW	2	-	o	*	27	5							
	Petrograd (5 a.m. G.M.T.)																						
	The Helder ...	1004.6	37	WSW	4	c	+5	36	-10	N	8	-	r	6	2	41	36						
	C. Gris Nez ...	1012.4	38	NNE	5	bc	+6	36	-2	NNW	6	-	b	?	1	?							
	La Hève ...	1016.0	37	N	4	c	0	37	0	N	4	-	c	4	43	36							
	Ushant ...																						
	Brest (St. Mathieu)	1022.7	43	N	5	c	+4	44	+1	NNE	4	-	c	3	45	34							
	Rochefort (Ile d'Aix)	1014.9	42	N	6	bc	+5	40	-6	N	6	-	b	8	46	37							
SOUTHERN EUROPE.	Biarritz ...	1016.2	49	N	7	r	+5	39	-18	ENE	3	-	bc	5	8	57	37						
	Paris ...	1010.6	37	N	2	o	+5	34	0	NNW	3	-	b	3	39	32							
	Belfort ...	1007.0	37	NNW	7	r	0	32	-15	ENE	6	-	o	*	34	32							
	Lyons ...	1010.1	43	N	1	o	0	34	-15	N	4	-	o	*	58	34							
	Nice ...	1009.9	52	-	0	r	0	43	-7	-	0	-	b	2	54	41							
	Perpignan ...	1013.0	46	NNW	5	o	+3	39	-2	NW	6	N	c	*	59	36							
	Sanguinaire ...	*	57	SE	3	m	0	51	-	N	5	-	m	5	61	50							
	Corunna (7 a.m.)	1028.4	52	NNE	6	b	+4	45	-7	N	1	-	b	6	54	45							
	Madrid (8 a.m.)	1017.7	46	NNW	3	b	+3	37	-11	N	1	-	bc	*	52	32							
	Lisbon (9 a.m.)	1026.1	54	N	4	b	+2	45	-8	N	5	NE	b	?	59	45							
Gibraltar ...	1022.7	57	NNW	5	b	0	48	-	E	4	-	b	1	64	48								
Rome ...																							
Malta (8 a.m.)	*	*	*	*	*	0	61	+4	S	3	-	b	1	68	57								
Azores (Horta, 8 a.m.)	1029.0	*	SW	6	o	0	59	0	SSW	4	-	r	5	63	57								
Madeira (Funchal)	1026.6	64	NE	4	c	0	63	+4	NE	4	NE	bc	4	66	59								

## GALES.

Duration and Extreme Force  
in British Islands.

Aberdeen, 12<sup>th</sup> Dec.

gust. NW 21 mps. at 4 p.m.

Spurn Head, 12<sup>th</sup> Dec.

Force 8 in squalls.

Malin Head, 12<sup>th</sup> Dec.

N. 9 at 11 a.m.

N. 8. 10 a.m. to 7 p.m.

Blacksod Point, 12<sup>th</sup> Dec.

NNW 10 at 1 a.m.

NNW. 9. 2 a.m. to 7 p.m.

## South Farnborough

Pilot Balloon Ascent at 7.45 a.m.

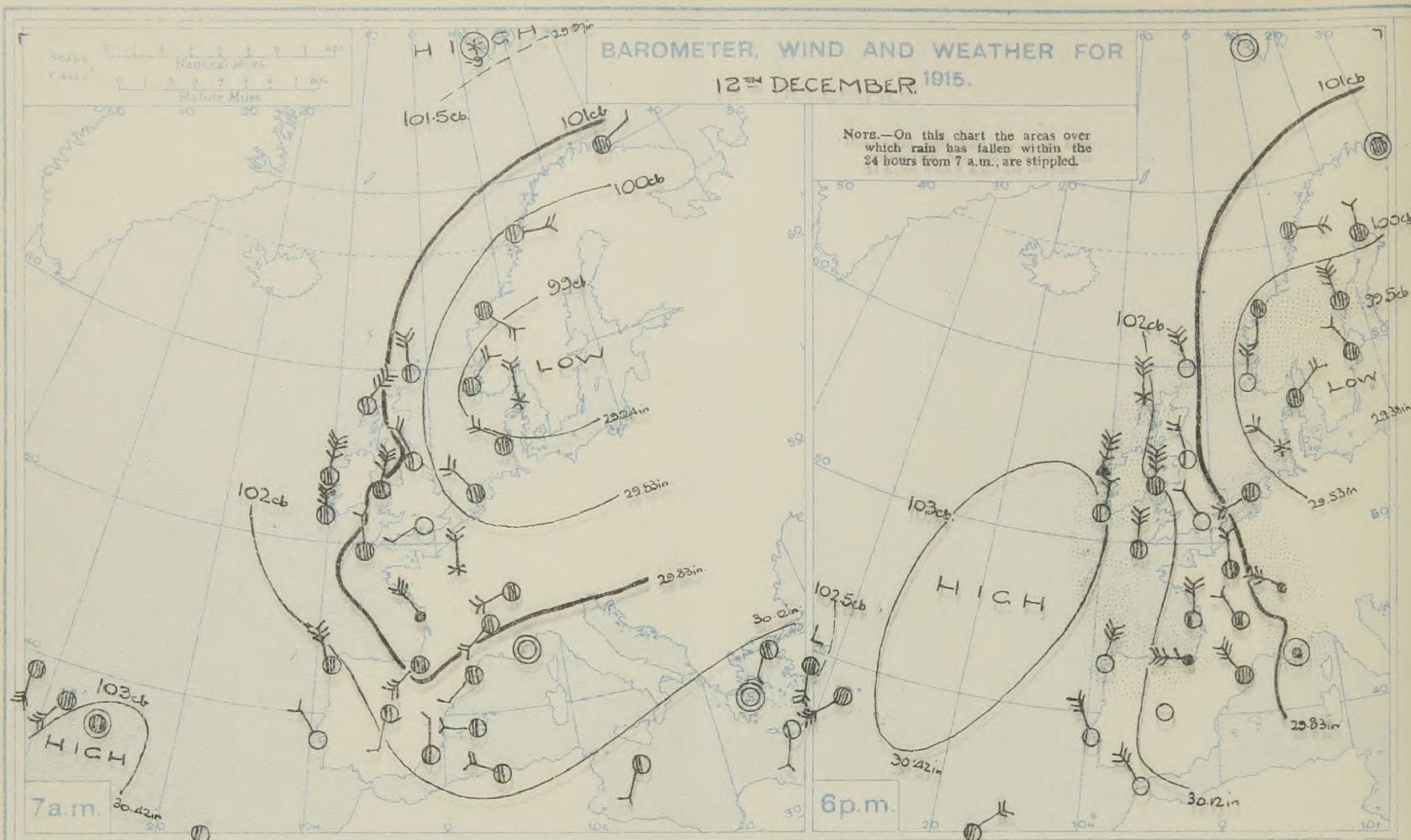
2,000 metres. NW by N. 32 miles per hour.  
900 metres. NNW. 40 miles per hour.  
500 metres. NW by N. 32 miles per hour.

\* Information for these columns not usually received.

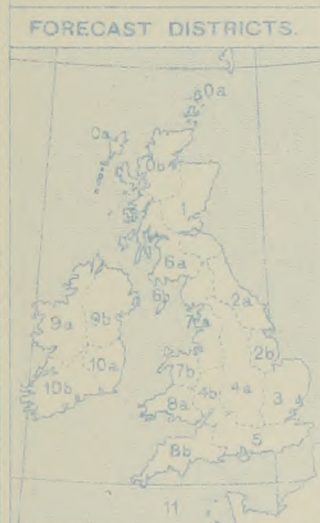
† Received too late for insertion in Charts.

‡ The barometric change is expressed in half-millibars.





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



**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.**

- |  |   |
|--|---|
| 0 }<br>1 }<br>2 }<br>3 }<br>4 }<br>5 }<br>6 }<br>7 }<br>8 }<br>9 }<br>10 }<br>11 } | Fresh North-Westerly winds, decreasing slowly;<br>fair or fine, snow or sleet showers possible, particularly<br>in north; cold.<br><br>Fresh or moderate winds from between North-West<br>and West; weather fair or fine; cold.<br><br>Light Northerly or variable winds; fair or fine;<br>rather cold.<br>Same as Nos. 4 to 7.<br>Same as No. 8.<br>Light Northerly or variable winds; fair or fine;<br>rather cold; sea slight. |
|--|---|



SYNOPTIC CHART FOR 7 a.m., MONDAY, 13<sup>TH</sup> DECEMBER, 1915.

## GENERAL INFERENCE

Conditions will become  
anticyclonic over 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

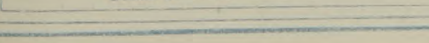
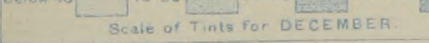
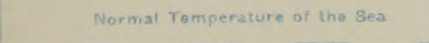
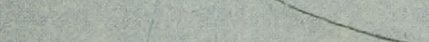
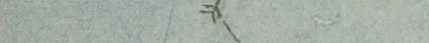
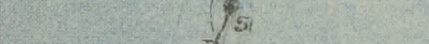
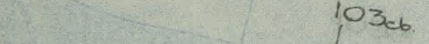
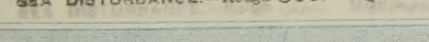
TEMPERATURE.—Given in degrees Fahrenheit.  
Isotherms shown by dotted lines.

**WEATHER.**—Shown by the following symbols:—  
 Sunny.  Cloudy.  Sun & clouded.

 clear sky.   
  sky  $\frac{1}{2}$  clouded.   
  sky  $\frac{1}{2}$  clouded.  
 sky  $\frac{3}{4}$  clouded.   
 overcast sky.   
 rain falling.

\*snow. ▲ hail. ≡ fog. ≡<sup>o</sup> mist. T, thunder.

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.	
	5h Farnborough	6h	5h Farnborough	6h	5h Farnborough	6h	5h Farnborough	6h	5h Farnborough	6h	5h Farnborough	6h	5h Farnborough	6h	5h Farnborough	6h	5h Farnborough	6h	5h Farnborough	6h
Heights in Kilometres.	2.5		+19	-4																
	2		+10	-1																
	1		+7	-7	+6	-10														
	0.8	+40	+6																	
	0.5	+22	+7	-3	+3	-6	+14	-1												
	0	+5	+2	+4	0	+3	-7	+7	0											

## 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.
Oban ...	3	38	32	ps	bc	10	Margate ...	-	40	36	cp	c. bc	01
Banff ...	3	40	33	rsqo	rsqc	00	Ramsgate ...	-	41	34	cr	c	03
Carnoustie ...							Hastings ...	-	42	33	bc	ob	30
St. Andrews ...							Bexhill-on-Sea ...						
England, N.E.							Eastbourne ...		37	34	clbc	bc oz	19
Harrogate ...	2	35	30	bc. b	bc. b	38	Seaford ...		?	34	bc. p	oc bc. b	04
Skegness ...	3	40	32	so. bc	bc. s	35	Brighton ...		37	32	bc	bc	04
England, N.W.							Worthing ...		?	33	oc. bc	oc. bc	01
Morecambe ...							Littlehampton ...						
Blackpool ...	8	39	33	bc. bc	c. bc	29	Bognor ...	0.3	38	33	c	c	00
Southport ...	4	43	32	bc	c. bc. b	31	Southsea ...		37	34	o	bc	00
Midlands.							Bournemouth ...		38	30	bc. o	o. b	07
Buxton ...							England, S.E.						
Leamington Spa ...	3	36	27	bc	bc	27	Weymouth ...		38	34	c. bc	b	16
Malvern ...	0.4	36	32	bc	bc	30	Torquay ...		46	34	bc. bc	bc. c	43
Ross-on-Wye ...	0.4	40	29	os	bc	34	Paignton ...						
Wales.							Falmouth ...	6	42	32	bc. p. h	cp. p. h	29
Rhyl ...	3	44	32	q. bc	c	43	Penzance ...		43	36	c. h. bc	bc. p. h	28
Colwyn Bay ...	3	40	34	c	c	20	Newquay ...		46	34	oc. bc	bc. bc. os	26
Llandudno ...							Ilfracombe ...	5	46	34	bc. bc	bc. bc	25
Aberystwyth ...	0.3	42	33	oc. bc	c. o	27	Weston-super-Mare ...		49	34	bc. bc	bc. bc	25
Tenby ...							England, S.W.						
England, E.													
Cromer ...													
Lowestoft ...													
Felixstowe ...		37	32	bc. m	bc	02							
Walton-on-Naze ...		37	32	bc. m	bc. b	02							
Southend-on-Sea ...		37	32	bc. o	oc. b	17							

## 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.) ...	% 79	% 76	Hr. 0.0	° F. 36	° F. 29	° F. 20	mm. 0.3	0.05.	0.05.0	bc. bc.
City (Bunhill Row) ...	* *	* *	0.0	* *	* *	* *	* *	* *	* *	* *
Westminster (St. James's Pk.)	74	85	0.0	45	?	23	1	ms	bc. 0	bc
Camden Sq. (Brit. Rainfall)	-	87	0.0	36	28	25	0.3	.	.	*
Hampstead (Reservoir) ...	*	96	0.2	34	34	13	0.2	cos. b	bc. x	bc. m
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.)				140 Joules		5.0 Milliwatts.		10 Milliwatts.		
S. Kensington (Roof of M.O.)	67	84	0.1							

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

12 <sup>th</sup> Dec. 1915.	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T. 7.59	G.M.T. 11.47	G.M.T. 3.36
Greenwich ...	7.59	11.47	3.36
Wick ...	8.56	12.4	3.16
Valencia ...	8.43	12.35	4.27

## NOTES ON YESTERDAY'S WEATHER.

Temperature was generally cold yesterday, with maxima below 40° at most stations. Snow and hail showers occurred over almost the whole country, though with bright intervals. 4.9 hours of sunshine were measured at Birr Castle.

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.



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 348. Tuesday, 14<sup>th</sup> December, 1915.

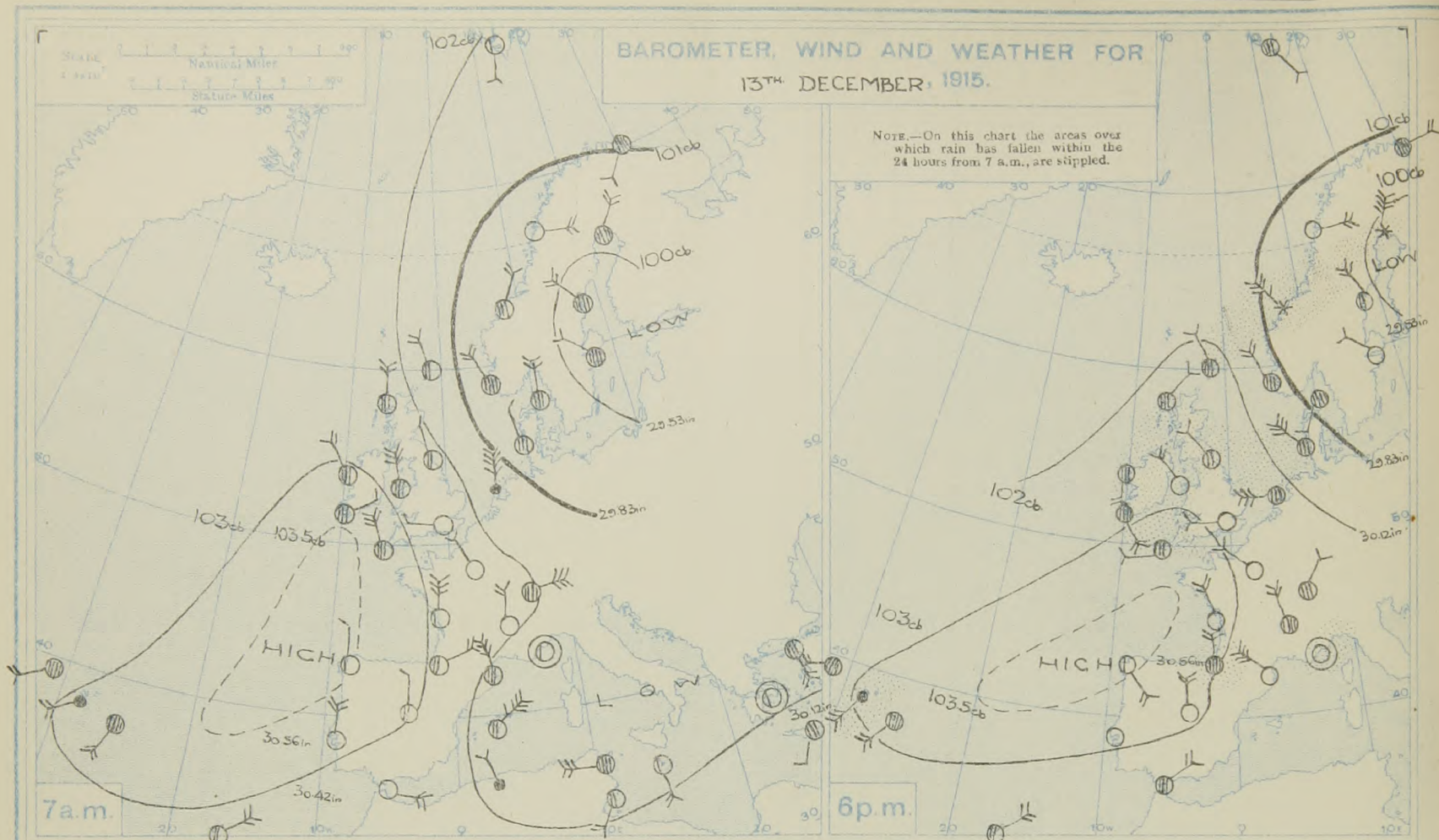
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Milli- bars at M.S.L.	Change in 5 hours.	Dry Bulb.	Change in 24 hours.	WIND. Dir.	Force 0-12.	Dir.	of Upper Cloud.	Weather.	Sea 0-5.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Dir.	Force 0-12.													Max.	Min.	Morning	Afternoon		Night
Lerwick ...	1019.7	39	NNW	2	C	1014.1	-2	33	0	-	0	-	cm	0	0.3	34	30	bc	c	cm sp	Hours.	
Deerness ...	1021.0	34	NNW	4	0	1010.8	-	38	+4	SSE	3	-	0	2	-	38	34	cdh bc	bc	0	0.0	
Sornoway ...	1022.6	37	NE	2	0	1004.8	-10	40	+4	SE	6	-	org	5	3	41	34	c	c	c. org	0.1	
Castledy (Barra) ...	1023.3	42	SW	3	0	1022.6	-10	45	+3	SSE	5	-	r	5	10	45	39	c. o	o	op. r	0.4	
Glasgow ...	1023.4	37	SW	1	0	1011.2	-9	38	+4	SSE	3	-	r	4	2	39	38	bc. c	o	cm. o	0.7	
Esksdalemuir ...	1026.0	36	NNW	3	0	1018.9	-10	34	+5	SSE	4	-	0	1	1	37	26	bc. c. c	c. bc. c. o	o. o. c	1.3	
Malin Head ...	1025.3	49	WSW	3	C	1005.3	-3	42	-1	SW	5	SW	cm sp	5	2	43	35	cq	0	cm sp	0.8	
Blacksod Point ...	1023.6	43	S	5	cm. sp	1009.3	0	48	+10	WSW	6	W	cm sp	5	4	55	33	cm	cm	cm. sp	0.8	
Valencia ...	1027.3	44	SSE	4	0	1015.0	-1	51	+7	WSW	4	W	c	5	8	51	34	c. o	0	0.0	0.0	
Roche's Point ...	1031.0	44	NNW	2	0	1016.8	-	50	+17	WSW	3	-	0	4	6	50	31	b. o	o	0.0	0.0	
Birr Castle ...	1029.4	35	SW	1	0	1013.0	-	48	+19	SW	1	-	0	3	2	48	26	c	o	0.0	0.0	
Donaghadee ...	1026.8	36	W	3	0	1009.4	-8	44	+8	SW	4	-	org. m. g.	4	5	44	33	cm	cm	0.0	0.0	
Liverpool (Bldston) ...	1028.4	40	WSW	3	0	1018.0	-7	36	-2	SE	3	-	0	3	1	42	35	bc. p	c. bc	0.0	2.7	
Holyhead ...	1029.0	40	NNW	2	0	1014.7	-10	42	0	S	6	-	0	5	5	43	39	bc. q	bc. q	0.0	1.4	
Pembroke (St. Ann's) ...	1031.7	42	NNW	2	0	1018.9	-3	47	+8	SSW	6	-	org. r.	5	2	47	38	bc. bc. c	bc	0.0	2.6	
Scilly (St. Mary's) ...	1032.4	48	W	2	0	1022.2	-7	48	+6	SW	3	-	0	5	1	49	39	0	0	0.0	1.5	
Falmouth ...	1033.0	40	NNW	2	0	1023.3	-6	46	+9	SSW	5	-	r	4	1	46	36	bc. c	bc. o	0.0	3.0	
Jersey (St. Aubin) ...	1031.4	41	NNW	2	0	1028.2	-	44	+3	SW	3	SW	c	3	2	46	34	0	0	0.0	3.3	
Pontland Bill ...	1030.9	42	NNW	4	0	1025.7	-4	47	+12	SW	5	SW	0	3	-	47	35	bc. c	bc. c	0.0	0.0	
Dungeness ...	1027.2	31	NNW	2	0	1026.9	-1	39	+11	SW	2	W	bc. c	2	-	39	27	bc. z	bc. z	0.0	0.0	
Dover ...	1027.9	32	NNW	3	0	1027.1	-1	36	+6	SW	3	-	bc	2	-	36	30	bc	bc. c	0.0	6.4	
Wick ...	1021.6	33	NNW	2	0	1011.1	-6	38	+4	SSE	3	-	r	4	1	39	28	org. p. s	cm	0.0	0.0	
Nairn ...	1022.8	34	NNW	1	0	1009.3	-	36	+3	-	0	-	ru	1	2	37	32	0. c	0. c	0.0	0.3	
Aberdeen ...	1023.0	35	W	3	0	1013.0	-6	36	+5	SSW	3	-	0	2	1	36	30	bc. asp	0.0	0.0	1.3	
Leith ...	1024.8	37	SW	1	0	1013.0	-5	39	+7	SSE	1	-	r	4	1	40	31	bc	bc. c	0.0	0.0	
Tynemouth ...	1023.8	36	NNW	2	0	1017.3	-6	37	+7	S	2	-	org. m.	4	1	37	30	bc. m	bc. m	0.0	0.0	
Spurn Head ...	1024.9	35	NNW	6	0	1022.4	-2	35	+5	W	4	-	0	6	2	40	30	bc. q	bc. q	0.0	3.8	
Yarmouth ...	1026.0	30	NNW	3	0	1024.9	-2	33	+2	SW	3	-	cm	3	1	36	30	bc. o. s	bc	0.0	4.1	
Clacton-on-Sea ...	1027.3	32	NNW	3	0	1025.8	-1	36	+5	WSW	3	-	c	2	-	36	30	bc	bc. c	0.0	3.4	
Nottingham ...	1027.1	26	SW	2	0	1022.8	-	36	+5	SW	2	SW	0	1	-	38	26	bc	bc. c	0.0	1.2	
Bath ...	1026.1	36	NNW	-	0	1023.8	-	40	+9	S	4	W	0	1	-	43	30	bc	bc. m	0.0	0.8	
St. Farnborough ...	1029.5	35	NNW	2	0	1025.7	-5	34	+8	S	3	NW	0	1	-	39	25	bc. c	bc. c	0.0	0.2	
London (Kew Obsy.) ...	1029.6	36	W	2	0	1026.2	-4	33	+3	SSW	1	-	0	2	0.1	38	32	bc. bc. c	bc. bc. c	0.0	0.9	
Spitsbergen ...	1019.1	-24	SSE	2	C	1013.3	-3	-15	+16	SE	2	-	bc	1	-	-15	-35					
Vardö ...	1007.0	19	E	3	0	999.1	-2	18	+6	NE	3	-	0	3	-	21	7					
Bodö ...	1005.0	12	E	4	0	1000.0	-2	18	+4	E	6	-	c	2	-	18	10					
Christiansund ...	1005.2	36	NNW	7	5	1008.2	0	30	+3	NNW	3	-	s	4	13	36	27					
Skudesnaes ...	1011.9	32	NNW	4	C	1014.0	0	28	-4	NE	2	-	c	2	-	37	28					
Færder (Xianla Fjord) ...	1010.7	21	N	2	m	1011.1	0	27	+4	WSW	4	-	bc	2	-	27	19					
The Scaw (Skagen) ...	1007.8	30	SSW	1	0	1013.3	0	23	-4	WSW	4	-	bc	3	-	32	21					
Blaavands Huk ...	1012.6	37	NNW	6	C	1019.0	+2	36	+4	NNW	2	-	c	3	2	37	30					
Haparanda ...	996.2	5	NNE	6	5	999.5	+3	10	+5	NNW	6	-	0	1	3	10	3					
Hernösand ...	1002.1	7	NNW	4	bc	1007.9	+3	3	-4	SW	2	-	bc	1	-	12	3					
Stockholm ...	1003.9	7	NNW	2	bc	1009.9	+2	9	-1	-	0	-	c	1	-	10	5					
Wisby ...	1005.9	16	NNW	6	0	1012.0	+6	25	0	NNW	4	-	bc	4	-	27	16					
Karlstad ...	1007.8	7	-	0	bc	1010.0	0	8	+1	-	0	-	bc	1	-	10	-8					
Petrograd (8 a.m.) ...																						
The Helder ...	1021.5	37	W	6	C	1024.0	0	39	+3	WSW	1	-	c	2	2	39	34					
C. Gris-Nez ...	1027.4	37	NNW	5	bc	1027.9	-1	41	+5	W	4	-	bc	3	-	39	36					
La Hève ...	1029.3	39	N	3	C	1026.9	-	37	0	SW	4	-	bc	4	-	45	36					
Ushant ...																						
Brest (St. Mathieu) ...	1034.9	45	N	2	C	1028.8	-3	48	+4	SW	5	-	0	4	-	46	39					
Rochefort (Ile d'Aix) ...	1033.2	42	NNW	4	bc	1033.2	0	37	-3	SSE	3	-	c	1	-	45	36					
Biarritz ...	1035.0	46	N	4	bc	1032.6	0	38	-1	ESE	2	-	c	4	1	46	37					
Paris ...	1029.9	36	NNW	2	bc	1031.1	0	30	-4	S	2	-	0	1	-	41	28					
Belfort ...	1027.9	32	NNE	2	C	1032.4	-	27	-5	-	0	-	m	1	-	37	27					
Lyons ...	?	33	NNW	4	0	?	-	29	-5	NNW	6	-	bc	1	-	35	28					
Nice ...	1001.6	42	-	0	bc	1020.3	+6	42	-1	-	0	-	c	3	2	52	39					
Perpignan ...	1023.1	39	NNW	6	bc	1027.1	+3	39	0	NNW	6	-	bc	1	-	41	36					
Sanguinaire ...	?	49	NNW	4	m	?	-	53	+2	E	3	-	bc	5	-	54	46					
Corunna (7 a.m.) ...	1036.6	48	ENE	5	bc	1036.6	-2	39	-6	SE	3	NE	bc	3	-	52	37					
Madrid (8 a.m.) ...	1032.6	37	N	4	bc	1035.1	-3	30	-7	-	0	-	bc	1	-	41	28					
Lisbon (9 a.m.) ...																						
Gibraltar ...	1029.1	50	NE	3	bc	1028.1	-	48	0	E	4	-	bc	1	-	61	46					
Rome ...																						
Malta (8 a.m.) ...																						
Azores (Horta, 8 a.m.) ...	1030.4	48	SSW	5	r	1027.5	-1	62	+3	SSW	7	-	r	6	4	63	59					

## South Farnborough:

Pilot Balloon Ascent at 7.50 a.m.

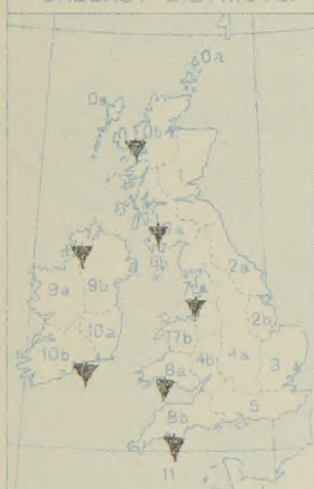
2000 metres. W by S 22 miles per hour.  
500 metres. SW by S 32 miles per hour.





**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 Cone.

North Cone.

Signals hoisted this morning.

South Cone.

North Cone.

South Cone hoisted to-day at

1 a.m. in Distrs. 0, 1, 6, 7, 8, 9, 10.

Western Channel and Bay 11

Southerly and South-Westerly winds, increasing considerably; rainy or showery; milder.

South-Westerly and Southerly winds, increasing in force; becoming rainy or showery; milder.

Southerly to South-Westerly winds, strong or fresh to moderate; rainy or showery, then fairer; mild.

South-Westerly and Westerly winds; moderate, fresh at times; occasional rain; mild.

South-Westerly winds, fresh to moderate; sea rather rough; showery, misty.

**FURTHER OUTLOOK.**

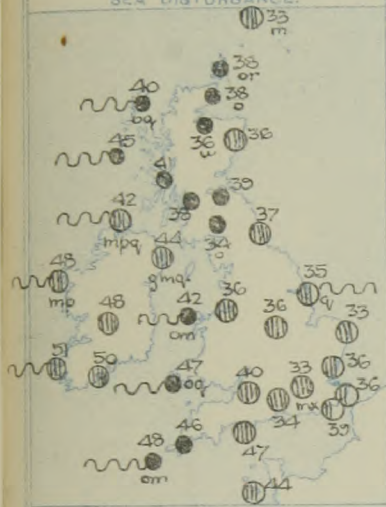


# SYNOPTIC CHART FOR 7 a.m., TUESDAY, 14<sup>TH</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

The depression will extend its influence to all parts of the Kingdom and the North Sea.

### 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:—

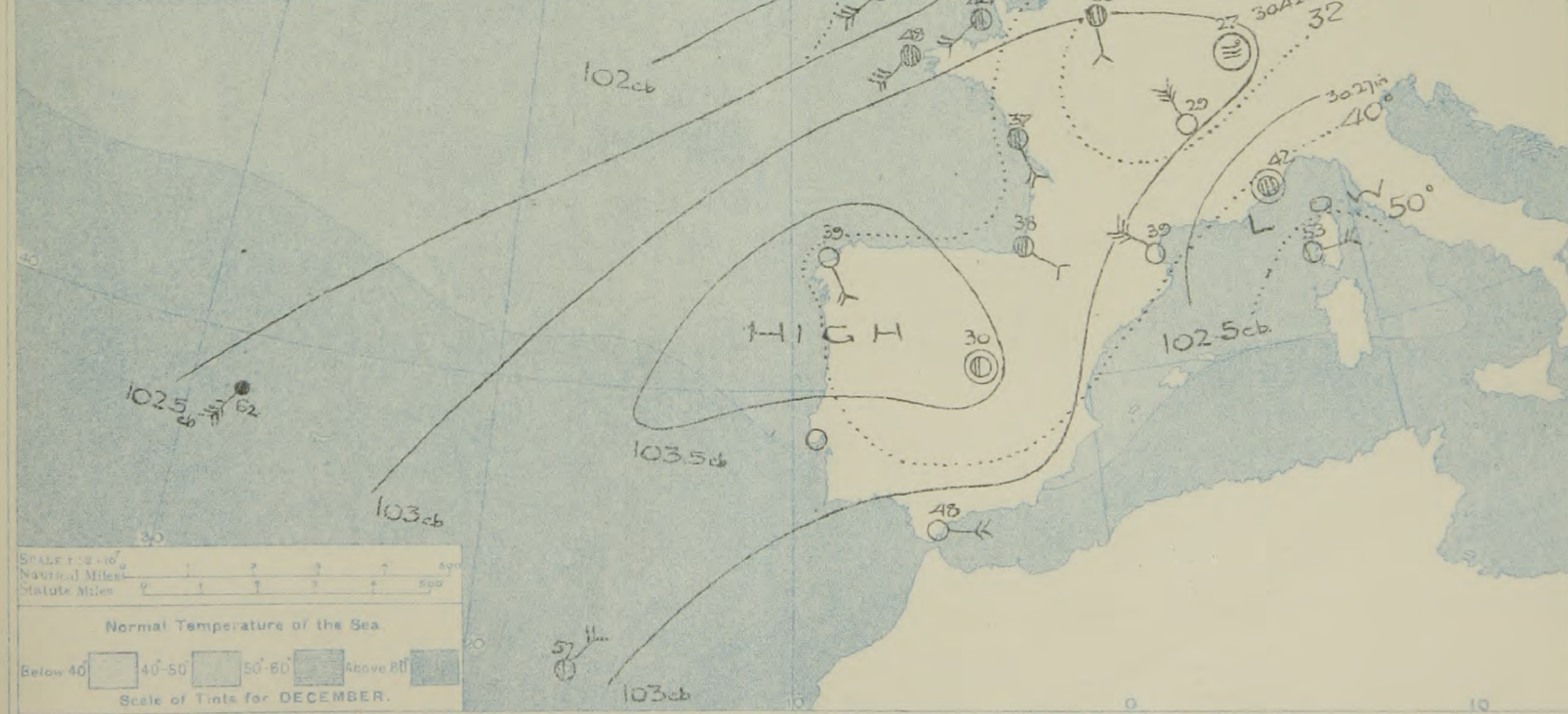
○ clear sky. ○ sky & clouded. ○ sky & clouded.

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

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

K, thunderstorm.

**SEA DISTURBANCE.**—Rough. High.





## DAILY WEATHER REPORT.

Tuesday, 14<sup>th</sup> December, 1915.REPORTS  
FOR  
YESTERDAY.

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.

## 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.	{	Oban ... ..	mm.‡	° F.	° F.			Hr.	{	Tunbridge Wells ... ..	mm.‡	° F.	° F.			Hr.	
		Banff ... ..	2	42	32	p	c	0.0		Margate ... ..	39	34	b	b b c b	46		
		Carnoustie ... ..	3	39	32	shpc	shpo	0.0		Ramsgate ... ..	36	31	b c	b c	62		
		St. Andrews ... ..	-	39	30	*	*	2.7		Hastings ... ..	39	31	b	b	64		
Eng. N.E.	{	Harrogate ... ..	-	37	28	b	b	5.7	{	Bexhill-on-Sea ... ..	-	39	31	b	b	60	
		Skegness ... ..	0.3	36	27	b b c	b c b	5.7		Eastbourne ... ..	-	39	30	b	b b c	65	
										Seaford ... ..	-	39	31	b c c	c o c b c	45	
Eng. N.W.	{	Morecambe ... ..							{	Brighton ... ..	-	39	31	b	b b c c	62	
		Blackpool ... ..	2	41	34	b c c r	b c b	1.7		Worthing ... ..	-	40	30	b	b b c	64	
		Southport ... ..	1	41	34	b c o p	a b c c	3.5		Littlehampton ... ..	-	41	32	b	b c b c	64	
Midlands.	{	Buxton ... ..							{	Bognor ... ..	0.3	40	30	b	b c b c	64	
		Leamington Spa ... ..	-	38	21	b c	b c	2.4		Southsea ... ..	-	41	22	b	b	56	
		Malvern ... ..	-	40	33	c b c	b c b	5.9		Bournemouth ... ..	-	42	31	b	b	63	
		Ross-on-Wye ... ..		43	29	b c	b c	5.1									
Wales.	{	Rhyl ... ..	1	43	35	b c	b c	1.3	{	Weymouth ... ..	-	42	22	x b z	b z	50	
		Colwyn Bay ... ..	2	43	36	b c	b c	0.3		Torquay ... ..	-	44	32	b	b	45	
		Llandudno ... ..								Paignton ... ..	-	44	32	b c	b c	47	
		Aberystwyth ... ..	1	43	32	r o c	c o	1.5		Falmouth ... ..	1	44	35	b b c	b c c	30	
		Tenby ... ..	4	42	33	b c	b c c o	2.6		Penzance ... ..	1	45	39	b c	c	23	
England, S.	{	Cromer ... ..							{	Newquay ... ..	?	44	38	b b c b	b c c	28	
		Lowestoft ... ..	3	34	29	b c c p s	c b c	4.4		Ilfracombe ... ..	2	44	34	c b c	b c c	10	
		Felixstowe ... ..	-	36	31	b	b	5.8		Weston-super-Mare ... ..	-	43	34	b c b	b b c	30	
		Walton-on-Naze ... ..	-	36	29	b b z	b	5.9									
		Southend-on-Sea ... ..	-	39	29	b	b	6.5									

## 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.										
Greenwich (Royal Obs.) ...	%	%	Hr.	° F.	° F.	° F.	mm. ‡			
City (Bunhill Row) ...	72	82	1.3	38	31	26	-	b.b.c	b.c.b	b.c.o.z
Westminster (St. James's Pk.)	76	85	2.3	38	31	25	-	b	b	b.m.m
Camden Sq. (Brit. Rainfall)	83	80	3.8	38	31	28	-	b.m.b	b	b
Hampstead (Reservoir) ...	82	82	5.4	36	29	16	-	b.c.c	b.c.c	b.c.c
Richmond Park ...	82	82	5.4	36	29	16	-	b.c.c	b.c.c	b.c.c
Kew. (See front page.)	82	82	5.4	36	29	16	-	b.c.c	b.c.c	b.c.c
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
				Total.		Average Rate.		Max. Rate.		
				210 Joules		7 1/2 Milliwatts.		13 Milliwatts.		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	73	80	3.5	38	31	26	-	b.b.c	b.c.b	b.c.o.z

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

14 <sup>th</sup> 15 <sup>th</sup> Dec 1915	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.59	11.48	3.36
Greenwich ...	8.0	11.48	3.36
Wick ...	8.07	11.55	3.49
Valencia ...	8.48	12.36	4.27

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° over a large portion of Great Britain, and several hours of bright sunshine were recorded in eastern, central and southern England - more than 6 hours at some stations. Rain set in during the night in the west and north.

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.					Sensib. for Yesterday.		
	Barom. Millibars at M.S.L.	Temp.	WIND.		Weather.	Barometer. Millibars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain-fall. Millimetres.	TEMP.		WEATHER.					
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.			
BRITISH ISLANDS.																							
Lerwick ...	1004.3	39	SE	4	om	1001.8	0	41	+8	SE	4	-	o	4	7	41	32	o	omd	op		Hour.	
Deerness ...	999.3	40	SSE	2	oe	999.6	-	39	+1	WNW	2	-	c	2	4	41	37	or	roe	oc	0.0		
Stornoway ...	1000.7	42	W	4	o	1000.1	-1	35	-5	W	1	-	omg	1	11	45	34	or	or	oc	0.0		
Castlebay (Barra Isd.)	1003.8	48	WNW	3	bc	999.2	-4	46	+1	E	3	-	bc	3	3	48	42	or	or	bc	0.0		
Glasgow ...	1005.6	44	WSW	3	bc	1001.9	-3	39	+1	-	0	-	omg	4	46	37	odmo	odmo	bc	0.0	0.0		
Eskdalemuir ...	1007.0	43	SW	4	og	1002.5	-3	39	+5	-	0	-	ome	8	45	32	odmo	odmo	bc	0.0	0.0		
Malin Head ...	1006.6	45	SW	3	omg	999.5	-5	37	-5	SSW	3	-	om	3	2	47	36	omg	bc	om	0.7		
Blacksod Point ...	1008.3	45	SW	2	om	996.6	-4	40	-8	SSE	3	SE	om	3	-	49	39	oz	om	om			
Valencia ...	1010.1	45	SW	1	b	995.7	-4	45	-6	WNW	3	-	r	4	9	51	42	c. om	om	bc	0.0		
Roche's Point ...	1012.0	46	FNE	2	o	997.6	-	48	-2	E	3	-	o	4	3	50	45	d. om	om	od			
Birr Castle ...	1010.2	41	SW	1	o	997.4	-	36	-12	-	0	-	f	4	48	36	o	o	o	f	0.0		
Donaghadee ...	1007.3	44	SW	3	bc	1000.3	-5	38	-6	SSW	2	-	bc	1	Trace	48	36	omg	om	bc			
Liverpool (Bidston)	1001.6	46	WSW	2	o	1000.3	-6	42	+6	ESE	2	-	f	2	1	49	36	or	oc	of	0.0		
Holyhead ...	1010.5	48	WSW	3	omg	998.4	-6	45	+3	E	3	-	odm	2	3	50	42	om	om	bc	0.0		
Pembroke (St. Ann's)	1012.2	48	SW	2	o	997.2	-3	48	+1	SSW	2	-	fd	5	7	50	47	or	fd	fr	0.0		
Scilly (St. Mary's)	1013.1	51	SW	5	omg	997.1	-2	50	+2	W	6	-	omd	6	27	51	45	om	omg	om	0.0		
Falmouth ...	1013.8	50	SSW	7	r	997.3	-7	51	+5	SW	6	-	odg	8	50	51	45	ry	ry	ry	0.0		
Jersey (St. Aubin)	1021.3	46	SSW	4	ogr	1006.6	-	45	+1	S	5	-	ogr	4	8	48	43	c. og	ogr	ogr	0.0		
Portland Bill ...	1015.3	48	SW	7	ogr	1000.8	-6	47	0	S	8	-	oc	6	19	48	45	oc	oc	oc			
Dungeness ...	1018.2	45	SSW	8	r	1009.5	-5	43	+4	SW	7	-	op	6	8	46	38	bc	oc	oc	0.0		
Dover ...	1018.9	44	SSW	8	r	1009.7	-3	42	+6	SSW	6	6	o	6	16	45	35	bc	c. od	oc	0.0		
Wick ...	999.5	39	-	0	o	1001.3	0	36	-2	W	1	-	bc	3	1	41	35	bc	oc	bc			
Nairn ...	1001.0	42	W	2	bc	1000.9	-	35	-1	-	0	-	bc	1	1	42	34	bc	oc	bc	0.0		
Aberdeen ...	1001.6	37	SSW	1	om	1001.6	+1	34	-2	WNW	1	-	b	2	3	43	34	oc	oc	bc	0.0		
Leith ...	1004.4	46	W	1	c	1004.9	-3	39	0	SW	1	-	c	1	42	38	c. oc	oc	bc				
Tynemouth ...	1006.9	45	SW	2	om	1003.2	-3	40	+3	SSW	2	-	of	4	1	45	36	om	om	f			
Spurn Head ...	1011.4	40	SSW	4	o	1004.1	-4	41	+6	SW	4	-	om	3	3	41	35	ogr	o	bc	0.0		
Yarmouth ...	1015.1	42	SW	6	om	1007.9	-2	43	+10	SW	4	-	om	5	5	44	31	om	om	om	0.0		
Clacton-on-Sea ...	1017.2	42	SSW	5	r	1008.5	-2	42	+6	SSW	4	-	r	3	11	43	35	c. o	ogr	ogr	0.0		
Nottingham ...	1013.2	46	SW	3	o	1003.0	-	46	+10	S	4	-	r	8	47	36	oc	od	o	0.0			
Bath ...	1014.0	50	SW	3	r	1002.5	-	47	+7	S	4	S	r	8	11	51	39	oc	oc	rd	0.0		
St. Farnborough ...	1015.7	45	SSW	5	r	1006.0	-5	43	+9	S	5	-	oc	8	46	34	oc	oc	oc	0.0			
London (Kew Obs.)	1016.0	45	SSW	4	om	1006.6	-4	46	+13	SSW	4	-	oc	8	46	33	om	oc	oc	om	0.0		
NORTHERN EUROPE.																							
Spitsbergen ...	1010.3	-22	-	0	b	1012.2	+2	-20	-5	-	0	-	b	8	-	-17	-27	GALES.					
Vardö ...	998.1	19	N	5	o	994.7	0	14	-4	WSW	3	-	b	2	8	19	9	Duration and Extreme Force in British Islands.					
Bodö ...	1001.5	18	E	4	o	1005.1	0	16	-2	E	4	-	S	2	-	19	12						
Christiansund ...	1008.6	34	WNW	2	c	1007.3	-2	28	-2	NE	2	-	b	4	3	34	27						
Skudesnaes ...	?	34	SE	4	r	1000.7	-1	37	+9	SE	4	-	r	4	4	34	28						
Færder (X'ania Fjord)	1012.4	30	WSW	2	b	1006.7	-2	28	+1	NE	4	-	S	1	?	30	27						
The Scaw (Skagen)	1014.3	30	W	4	bc	1005.2	-3	36	+13	SW	4	-	o	4	7	36	21						
Blaavands Huk ...	1015.7	39	SW	2	o	1007.9	0	41	+5	SW	4	-	r	3	2	41	34						
Haparanda ...	1006.3	3	WNW	4	b	1008.3	0	-4	-14	SSW	2	-	b	4	-	28	-6						
Hernösand ...	1009.3	9	-	0	c	1010.2	0	3	0	-	0	-	c	8	-	7	-8						
Stockholm ...	1011.3	12	-	0	o	1013.1	0	16	+7	-	0	-	f	8	-	16	9						
Wisby ...	1014.0	30	WSW	6	c	1014.1	0	32	+7	S	2	-	S	8	Trace	32	23						
Karlstad ...	1014.0	-6	-	0	b	1011.0	-3	14	+6	-	0	-	S	8	1	?	?						
Petrograd (5 a.m. G.M.T.)																							
FRANCE, &c.																							
The Helder ...	1017.2	41	SSW	7	o	1006.6	-2	39	0	S	7	-	r	6	2	41	39						
C. Gris Nez ...	1019.4	44	SSW	6	o	1010.3	-4	38	-3	S	6	-	o	5	3	46	37						
La Hève ...	1021.6	43	SW	6	o	1012.0	-	39	+2	SW	6	-	o	5	-	52	36						
Ushant ...																							
Brest (St. Mathieu)	1020.3	50	SSW	6	o	1004.3	-1	50	+2	SSW	5	-	m	4	14	50	46						
Rochefort (Ile d'Aix)	1026.9	41	SSE	3	c	1014.3	-4	37	0	S	4	-	o	8	-	45	36						
Biarritz ...	1027.8	43	FNE	2	b	1015.8	-5	37	-1	SE	2	-	b	3	-	48	32						
Paris ...	1026.6	34	S	2	b	1016.8	-5	28	-2	SSE	2	-	b	8	-	41	27						
Belfort ...	1029.9	30	FNE	2	m	1021.9	-	23	-4	FNE	4	-	b	8	-	37	23						
Lyons ...	1024.6	32	N	1	b	1022.1	-	25	-4	-	0	-	b	8	-	37	21						
Nice ...	1021.5	40	E	1	b	1017.6	-1	39	-3	E	1	-	b	3	-	50	34						
Perpignan ...	1026.6	39	WNW	3	b	1019.8	-4	25	-14	WSW	1	-	b	8	-	45	?						
Sanguinaire ...	*	57	N	4	bc	*	*	52	-1	N	2	-	bc	4	-	59	46						
SOUTHERN EUROPE.																							
Corunna (7 a.m.)	1027.8	50	SSW	3	o	1012.6	-10	50	+11	SW	4	-	r	5	3	50	39						
Madrid (8 a.m.)	1026.0	41	-	0	b	1023.3	-2	28	-2	-	0	-	o	8	-	43	27						
Lisbon (9 a.m.)																							
Gibraltar ...	1024.4	48	SW	1	b	1021.7	-	44	-4	E	3	-	b	3	-	60	43						
Rome ...																							
Malta (8 a.m.)	*	*	*	*	*	1010.0	+2	52	-10	SSW	5	-	c	2	6	66	48						
Azores (Horta, 8 a.m.)	1029.0	*	WNW	4	bc	1030.1	0	54	-8	-	0	-	b	2	3	66	54						
Madeira (Funchal)	1028.6	63	NE	3	o	1024.6	-1	59	+2	N	3	-	c	3	-	66	57						

## GALES.

Duration and Extreme Force in British Islands.

Portland Bill: 15<sup>th</sup> Dec.

SE. 4 a.m. to 7 a.m.

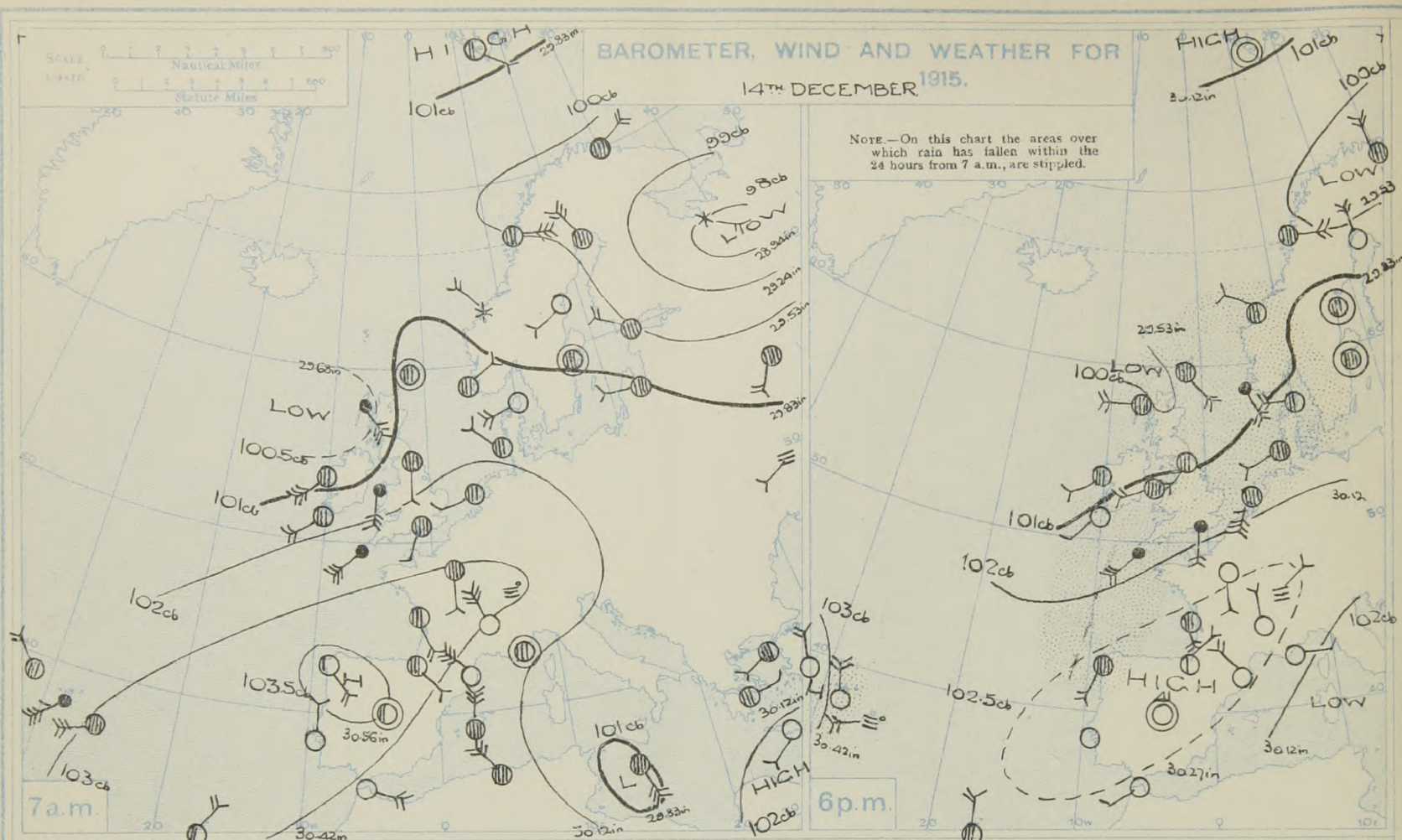
Dungeness: 14<sup>th</sup> & 15<sup>th</sup> Dec.

SSW. 8. 3 p.m. to 2 a.m.

Dover: 14<sup>th</sup> Dec.

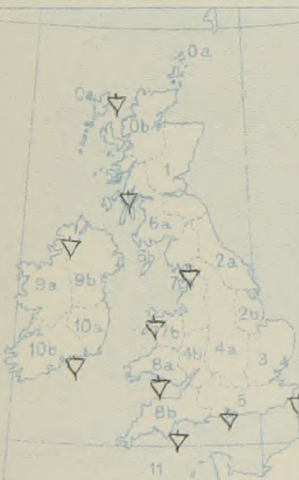
SSW. 8 at 6 p.m.





### 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.

South Cone hoisted yesterday at 1 a.m.

in Districts 9, 6, 7, 8, 9, 10, 11 at 2 p.m.

in District 5.

Western Channel and Bay 11

0 } Light variable winds; weather changeable, some mist or fog; rather cold.

2 } Southerly and South-Westerly winds, light to fresh, some rain and mist; moderate temperature.

4 } Wind between South and South-West, moderate to strong or high; rainy to showery, air misty; rather mild.

6 } Same as Nos. 0 and 1.

7 } Variable winds; some rain and mist or fog; moderate temperature.

8 } Moderate to strong winds between West and South-West; rainy, then showery, some mist; mild.

9 } Wind variable, light, then North-Westerly or Westerly, fresh to strong; changeable; moderately cold.

10 } Westerly and South-Westerly winds, fresh or strong; sea rough; some rain and mist.

#### FURTHER OUTLOOK.

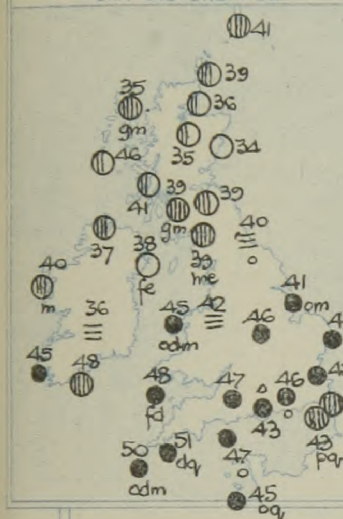


# SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 15<sup>TH</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

There are, so far, no indications of a change to a more stable condition of barometric pressure.

### 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.  
 T, thunderstorm.  
**SEA DISTURBANCE.**—Rough High

Inches  
31

resh.

30

29

SCALE 1:250,000  
 Nautical Miles 1 2 3 4 5  
 Statute Miles 1 2 3 4 5

Normal Temperature of the Sea

Below 40 40-50 50-60 Above 60  
 Scale of Tints for DECEMBER.

recto



## DAILY WEATHER REPORT.

Wednesday, 15<sup>th</sup> December, 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. ot 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.								
		* P.							° F.	* F.										
	Lisbon. ... ..	1032.8	50	N	2	b	1032.8	-1	41	-4	N	2	NE	b	?	-	52	41		
	Malta ... ..	"	"	"	"	"	1007.1	-2	64	+3	SSE	5	-	0	2	-	68	59		
14 <sup>th</sup> December																				

## 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 ... ..	5	48	35	o	r.o.c	0.0	England, S.E.	Tunbridge Wells ... ..	...	...	...	...	...	...		
	Banff ... ..	3	41	34	rs.bc	bc.or	0.5		Margate ... ..	...	2	45	33	c	r	0.0	
	Carnoustie ... ..	...	...	...	...	...	...		Ramsgate ... ..	...	-	44	29	c	cr	0.2	
	St. Andrews ... ..	...	...	...	*	*	...		Hastings ... ..	...	1	46	32	c.o	od	0.0	
Eng. N.E.	Harrogate ... ..	2	44	32	o.p.c	o.p	0.0		Bexhill-on-Sea ... ..	...	...	...	...	...	...	...	
	Skegness ... ..	2	41	29	or	rg.o	0.0		Eastbourne ... ..	...	1	46	34	o	o.p. or q.	0.0	
Eng. N.W.	Morecambe ... ..	2	46	35	d	o	0.0		Seaford ... ..	...	0.3	47	32	o	or	0.0	
	Blackpool ... ..	2	46	36	o.c	o.c	0.0		Brighton ... ..	...	1	46	32	c.o	o.or	0.0	
	Southport ... ..	1	47	35	o.d.c	c.o.c	0.0		Worthing ... ..	...	1	46	30	o	om	0.0	
Midlands.	Buxton ... ..	...	...	...	...	...	...		Littlehampton ... ..	...	1	46	39	od	od	0.0	
	Leamington Spa ... ..	2	47	23	od.r	od.r	0.0		Bognor ... ..	...	4	46	31	od	od	0.0	
	Malvern ... ..	1	47	35	c	od	0.0		Southsea ... ..	...	1	47	31	o	or	0.0	
	Ross-on-Wye ... ..	2	42	33	or	od	0.0		Bournemouth ... ..	...	5	48	31	or	or	0.0	
Wales.	Rhyl ... ..	0.2	50	34	p.o.c	o	0.0		England, S.W.	Weymouth... ..	...	3	50	37	or	r.o	0.0
	Colwyn Bay ... ..	-	50	37	c.bc	c	0.0			Torquay ... ..	...	4	50	35	od	or	0.0
	Llandudno ... ..	...	...	...	...	...	...			Paignton ... ..	...	4	50	42	o.p	r.o.p	0.0
	Aberystwyth ... ..	3	50	38	r.o.c	c.of	0.0			Falmouth ... ..	...	20	50	37	ry	ry	0.0
	Tenby ... ..	10	51	34	bc.c.ow	bc.ow	0.0			Penzance ... ..	...	21	52	39	or	or	0.0
England, E.	Cromer ... ..	...	...	...	...	...	...	Newquay ... ..		...	1	50	39	or	or	0.0	
	Lowestoft ... ..	-	41	30	c.o	od	0.0	Ilfracombe ... ..		...	7	51	38	dr	dr	0.0	
	Felixstowe ... ..	4	43	31	bc.o	o.c	0.0	Weston-super-Mare ... ..		...	5	49	34	r	r	0.0	
	Walton-on-Naze ... ..	3	43	30	c	or	0.0										
	Southend-on-Sea ... ..	-	43	31	c.o	od.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.										
	%	%	Hr.	° F.	° F.	° F.	mm.‡			
Greenwich (Royal Obs.) ...	89	88	0.0	46	38	33	10	o.c	o.c	o.c
City (Bunhill Row) ...	8	8	0.0	4	3	3	1	o.c	o.c	o.c
Westminster (St. James's Pl.)	92	91		47	38	32	11	o.c	o.c	o.c
Camden Sq. (Brit. Rainfall)	91	89	0.0	46	38	41	14	o.c	o.c	o.c
Hampstead (Reservoir) ...	8	94	0.0	45	40	34	17	o.c	o.c	o.c
Richmond Park	8	8								
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.)				138 Joules		4.9 Milliwatts.		9 Milliwatts.		
S. Kensington (Roof of M.O.)	88	92	0.0							

## 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.					
Dublin to 4 p.m.	mm.‡	° F.	° F.	° F.				Hr.
Darwen to 9 p.m.	1	49	38	33	c.p	o.c	c	*
Manchester "								
Birmingham "								
Oxford to 8 p.m.								
Teignmouth to 9,,	2	51	34	29	bc.ow	omd	d	0.0
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	2	46	32	28	bm.3	omod	o.dry	*

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

15 <sup>th</sup> & 16 <sup>th</sup> December 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ... ..	8.9	11.48	3.36
Greenwich ... ..	8.2	11.56	3.49
Wick ... ..	9.38	12.7	3.15
Valencia ... ..	8.45	12.36	4.27

## NOTES ON YESTERDAY'S WEATHER.

Rain fell very generally, heavily in the south-west. At Falmouth the measurement was 50 mm. Scarcely any bright sunshine was recorded. Temperature rose to 50° at several stations in the west and south-west, but only to 41° at Spurn Head.

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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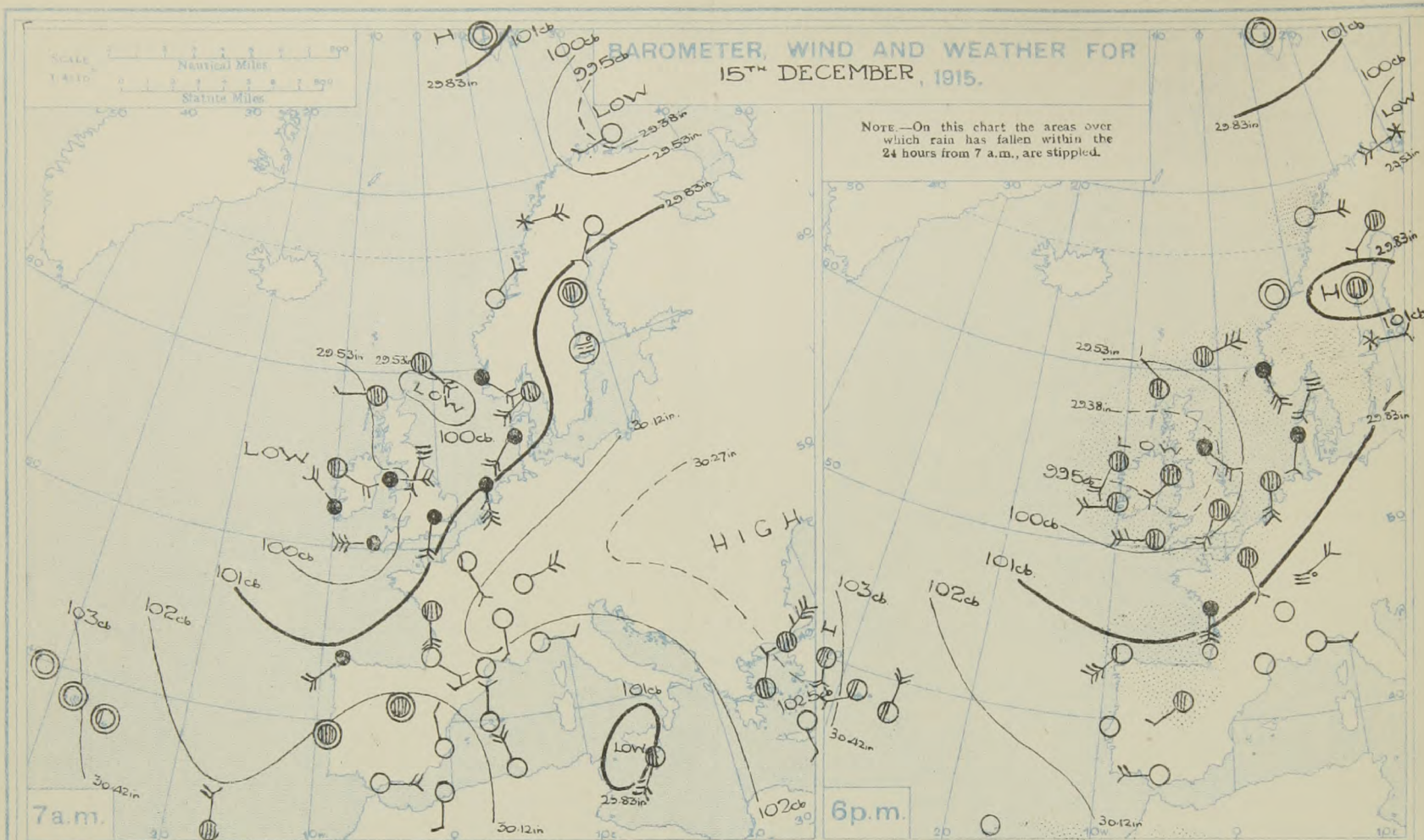
	STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
		Barom. Milli- bars at M.S.L.	Temp.	WIND.		Weather.	Barometer, Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.		Dir. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
				Dir.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick	10029	40	ENE	5	0	10014	-1	42	+1	NE	4	-	om	4	04	42	37	0	0	bc om	Hours.
	Deerness	9996	42	E	4	0	9959	+	42	+3	E	4	-	r	4	3	43	39	0	0	0	00
	Stornoway	9974	37	NW	1	0	9944	0	43	+8	SE	7	-	om	5	3	43	34	0	0	0	00
	Castlebay (Barra Isd.)	9952	45	NE	4	0	9908	-1	43	-3	N	4	-	op	4	6	47	42	0	0	op	01
	Glasgow	9941	40	ENE	3	0	9914	+2	40	+1	S	1	-	0	4	10	41	39	0	0	om	00
	Eskdalemuir	9929	39	NE	4	0	9916	+1	39	0	-	0	-	0	4	9	42	38	0	0	om	00
	Malin Head	9936	44	E	3	0	9900	-2	40	+3	SW	3	-	om	3	7	44	37	0	0	om	00
	Blacksod Point	9928	40	SSW	3	0	9923	0	40	0	SE	1	-	bc	2	4	43	36	0	0	om	00
	Valencia	9958	46	W	3	0	9917	-2	43	-2	SSE	2	-	0	4	10	48	40	0	0	bc	34
	Roche's Point	9963	44	W	3	0	9933	+	40	-8	SW	1	-	r	3	4	44	36	0	0	bc	00
	Birr Castle	9914	41	W	1	0	9936	+	39	-3	E	1	-	c	3	3	46	32	0	0	0	00
	Donaghadee	9915	44	ENE	3	0	9913	+2	40	+2	SW	3	-	om	2	3	45	37	0	0	om	00
	Liverpool (Bidston)	9922	45	SSW	3	0	9956	+2	40	-2	SE	1	-	bc	2	5	46	39	0	0	om	00
	Holyhead	9911	47	SW	3	0	9937	+1	43	-2	WSW	4	-	bc	3	4	47	42	0	0	om	00
	Pembroke (St. Ann's)	9939	49	W	5	0	9954	-1	45	-3	SSW	3	SW	0	3	6	49	44	0	0	om	07
	Scilly (St. Mary's)	9983	47	W	5	0	9962	-1	45	-5	WSW	2	W	0	5	2	51	43	0	0	om	30
	Falmouth	9987	44	W	4	0	9967	-1	39	-12	SW	1	-	bc	3	3	51	38	0	0	om	24
	Jersey (St. Aubin)	10009	48	S	4	0	10010	+	46	+1	S	4	S	bc	3	2	44	44	0	0	om	00
	Portland Bill	9974	49	WSW	5	0	9983	-1	48	+1	SSW	3	SW	0	5	7	51	45	0	0	om	00
	Dungeness	10016	43	S	7	0	10010	0	45	+2	S	5	-	0	5	6	46	42	0	0	om	00
	Dover	10026	42	SW	6	0	10016	0	45	+3	SW	6	SW	c	5	5	46	40	0	0	om	00
NORTHERN EUROPE.	Wick	9991	43	E	2	0	9948	-3	43	+7	E	3	-	r	4	6	45	34	0	0	om	00
	Nairn	9977	36	-	0	0	9914	+	41	+6	-	-	-	0	4	4	41	32	0	0	om	00
	Aberdeen	9977	38	WNW	1	0	9926	+1	45	+11	SSE	2	-	om	3	8	45	34	0	0	om	00
	Leith	9942	42	E	2	0	9917	-1	41	+2	E	1	-	0	4	8	43	38	0	0	om	00
	Tynemouth	9942	43	SE	3	0	9926	+1	41	+1	SSE	3	-	om	4	3	43	39	0	0	om	00
	Spurn Head	9957	42	SSW	0	0	9975	+1	38	-3	WSW	4	-	bc	5	5	43	37	0	0	om	00
	Yarmouth	10001	42	SW	6	0	10009	0	40	-3	SW	3	-	bc	3	3	43	34	0	0	om	00
	Clacton-on-Sea	10009	42	SSE	6	0	10006	0	43	+1	S	3	-	bc	3	7	43	41	0	0	om	00
	Nottingham	9952	46	S	2	0	9977	+	36	-10	SW	2	SW	c	3	3	48	36	0	0	om	00
	Bath	9959	49	SW	1	0	9981	+	36	-11	S	1	SW	0	2	2	53	32	0	0	om	00
	St. Farnborough	9984	45	SSE	5	0	9996	0	38	-5	S	2	-	om	8	45	38	0	0	om	00	
	London (Kew Obsy.)	9991	46	SSW	4	0	10002	+1	34	-7	S	1	-	om	3	46	39	0	0	om	00	
FRANCE, &c.	Spitsbergen	10141	-11	-	0	0	10120	-4	-9	+11	-	0	-	0	4	+	-9	-25				
	Vardö	9971	19	WSW	4	0	9989	0	19	+5	NNW	5	-	bc	4	+	19	7				
	Bodö	10070	19	E	4	0	10083	0	21	+5	E	3	-	bc	2	+	21	16				
	Christiansund	10074	25	-	0	0	10082	0	23	-5	SE	4	-	bc	3	-	28	23				
	Skudesnaes	10020	39	SSE	5	0	10027	0	39	+2	S	2	-	r	3	9	39	36				
	Færder (X'ania Fjord)	10070	27	NNE	4	0	10090	+2	27	-1	NNE	4	-	0	2	7	28	25				
	The Scaw (Skagen)	10060	37	SW	3	0	10079	0	36	0	SSW	2	-	0	2	4	37	36				
	Blaavands Huk	10071	37	SSW	2	0	10053	0	36	-5	SSE	3	-	0	4	2	41	34				
	Haparanda	10060	0	SSW	2	0	10099	+3	-15	-11	NNE	2	-	bc	4	+	9	-15				
	Hernösand	10114	-2	-	0	0	10137	+2	-9	-12	-	0	-	bc	4	+	3	-9				
SOUTHERN EUROPE.	Stockholm	10079	28	E	2	0	10099	+3	28	+12	-	0	-	f	4	+	30	16				
	Wisby	10096	36	SW	4	0	10113	+2	36	+4	WSW	2	-	0	5	41	30					
	Karlstad	10067	25	-	0	0	10110	+3	21	+7	-	0	-	0	4	+	27	12				
	Petrograd	(5 a.m. G.M.T.)																				
	The Helles	10052	36	S	0	0	10027	0	36	-3	S	4	-	r	2	7	39	34				
	C. Gris Nez	10034	37	SSE	4	0	10020	0	40	+2	NNW	5	-	bc	4	1	40	36				
	La Hève	10030	39	S	6	0	10020	+	39	0	SSW	4	-	0	4	3	54	37				
	Ushant																					
	Brest (St. Mathieu)	10029	49	WSW	3	0	10002	-2	47	-3	WSW	4	-	c	5	-	52	45				
	Roche fort (Ile d'Aix)	10071	41	S	5	0	10055	-2	43	+6	S	5	-	r	7	45	36					
SOUTHERN EUROPE.	Biarritz	10103	47	S	2	0	10069	-3	47	+10	SSE	3	-	0	3	1	50	37				
	Paris	10083	34	SSE	2	0	10066	0	37	+9	S	2	-	0	4	5	37	28				
	Belfort	10140	28	ENE	3	0	10120	+	30	+7	W	2	-	c	4	+	35	23				
	Lyons	10132	32	-	0	0	10115	+	38	+13	S	2	-	0	4	+	39	25				
	Nice	10143	41	E	1	0	10110	0	41	+2	-	0	-	bc	2	-	50	37				
	Perpignan	10133	34	-	0	0	10093	-3	36	+11	SW	1	-	0	4	+	45	25				
	Sanguinaire	+	57	E	2	0	+	+	51	-1	E	3	-	0	4	+	59	50				
	Corunna (7 a.m.)	10115	52	SW	3	0	10066	-3	45	-5	SSE	3	-	c	4	13	55	45				
	Madrid (8 a.m.)	10180	37	WSW	1	0	10119	-3	32	+4	-	0	-	0	2	37	28					
	Lisbon (9 a.m.)																					
SOUTHERN EUROPE.	Gibraltar	10164	53	W	3	0	10112	+	54	+10	W	4	-	0	2	-	59	43				
	Rome																					
	Malta (8 a.m.)																					
SOUTHERN EUROPE.	Azores (Horta 8 a.m.)	10296	+	WSW	2	0	10264	-1	59	+5	WSW	4	-	0	3	-	64	54				
	Madeira (Funchal)																					

GALES.  
Duration and Extreme Force  
in British Islands.  
Scilly: 15"  
Squall WNW at 11 a.m.  
Portland: 15"  
S.E. 5 a.m. to 10 a.m.  
Dungeness: 15"  
SW.B. 9 a.m. to 2 p.m.

South Farnborough  
Pilot Balloon Ascent at 745 a.m.  
2000 metres. SW by S. 30 miles per hour  
500 metres. SW by S. 25 miles per hour

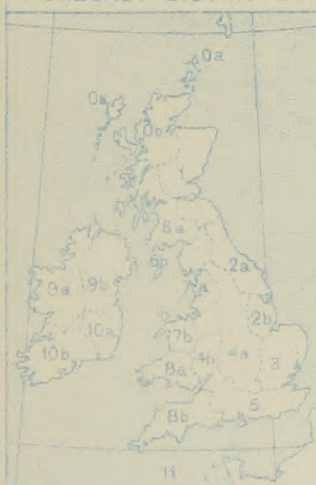
\* Information for these columns not usually received    † Received too late for insertion in Charts.    ‡ The barometric change is expressed in half-millibars.





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

No Warnings Issued.

Western Channel and Bay 11

**FURTHER OUTLOOK.**

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

NAPIER SHAW, Director

0 { a } South-Easterly and Easterly winds, light or  
b } moderate; much cloud, some rain; moderate temperature.

1 { a } Southerly and South-Easterly winds, light or  
b } moderate; mostly fair or cloudy, some rain; moderate temperature.

2 { a } Southerly winds, light to moderate; cloudy or  
b } fair generally, local showers; rather colder.

3 { a } Light Southerly or variable winds; dull generally,  
b } some rain; rather colder.

4 { a } Wind mainly Southerly, light to fresh;  
b } changeable, some rain and mist; moderately mild.

5 { a } Wind varying in force from some Southerly point;  
b } much cloud, some rain; moderately mild.

6 { a } South-Westerly and Southerly winds, light to fresh;  
b } sea rather rough; some showers and mist.

Millib.

1050

1040

1030

1020

1010

1000

990

980

970

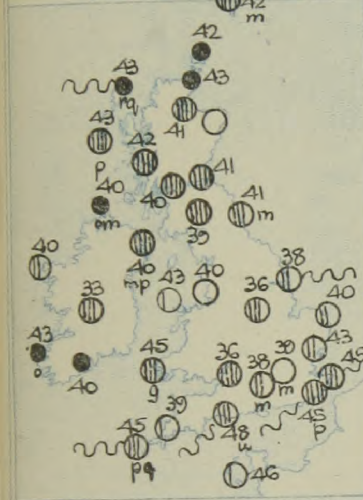


# SYNOPTIC CHART FOR 7 a.m., THURSDAY, 16<sup>TH</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

The general conditions will continue cyclonic and unsettled, but with less rain and lighter winds than of late.

### TEMPERATURE, WEATHER AND SEA DISTURBANCE.





## DAILY WEATHER REPORT.

Thursday, 16<sup>th</sup> December, 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.						
		° F.	° F.								
Scotland.	Oban	6	45	40	bcd	0.5	England, S.E.	Tunbridge Wells	...	...	...
	Banff	0.2	39	33	c	0.0		Margate	...	...	...
	Carnoustie	...	...	...	...	...		Ramsgate	...	...	...
	St. Andrews	2	43	34	f	0.0		Hastings	...	...	...
Eng. N.E.	Harrogate	6	42	34	omr	0.0	England, S.E.	Bexhill-on-Sea	...	...	...
	Skegness	5	44	41	gr	0.0		Eastbourne	...	...	...
Eng. N.W.	Morecambe	11	46	40	d	0.0		Seaford	...	...	...
	Blackpool	13	46	37	or, r	0.0		Brighton	...	...	...
	Southport	11	46	37	or	0.0		Worthing	...	...	...
Midlands.	Buxton	11	42	34	or	0.0		Littlehampton	...	...	...
	Leamington Spa	10	49	36	or	0.0		Bognor	...	...	...
	Malvern	13	48	44	r.o	0.0		Southsea	...	...	...
	Ross-on-Wye	9	50	46	or	0.0		Bournemouth	...	...	...
Wales.	Rhyl	6	48	38	r	0.0	England, S.W.	Weymouth	...	...	...
	Colwyn Bay	5	47	42	rbc	0.0		Torquay	...	...	...
	Llandudno	...	...	...	...	...		Paignton	...	...	...
	Aberystwyth	8	49	45	r.o.c	0.0		Falmouth	...	...	...
England, E.	Tenby	2.1	49	45	bc, dp	0.1		Penzance	...	...	...
	Cromer	6	44	41	or	0.0		Newquay	...	...	...
	Lowestoft	11	42	36	opq	0.0		Ilfracombe	...	...	...
	Felixstowe	10	42	37	opq	0.0		Weston-super-Mare	...	...	...
	Walton-on-Naze	5	43	37	o	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.						
	%	%	Hr.	° F.	° F.	° F.	mm. §			
Greenwich (Royal Obey.) ...	90	92	0.0	45	35	30	2	0.0d.	0	0.0d.
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	93	90	0.0	47	41	32	2	mr	mc	umbc
Camden Sq. (Brit. Rainfall)	92	94	0.0	47	40	34	2	0.0	0	*
Hampstead (Reservoir) ...	*	100	0.0	44	39	27	5	0	0	0.0m
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	91	0.0	77 Joules	2.7 Milliwatts.		6 Milliwatts.			

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

December 16 <sup>th</sup> , 17 <sup>th</sup> 1915.			
	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	8.2	11.49	3.36
Greenwich	8.2	11.56	3.49
Wick	9.0	12.8	3.15
Valencia	8.46	12.37	4.27

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.	0.3	46	38	33	cd. of	off. c	c. yr	*
Darwen to 9 p.m.	16	44	37	33	out	or	h	0.0
Manchester				*				
Birmingham "								
Oxford to 8 p.m.	*							*
Teignmouth to 9 "	15	51	43	47	or	d. c p	h c	1.2
Plymouth "	21	51	46	*	or q	or q	don q	1.0
S. Kensington (Museum Grounds to 6 p.m.)	11	47	43	35	or q. or	or. q	ado	*

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to about 50° at some southern stations, but remained below 45° over a large area in the north and east. Rain fell very generally, and except in the extreme south-west there was little or no bright sunshine.

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.



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.	
Lerwick ...	1000.4	41	ENE	3	oc	1006.2	+2	39	-3	N	5	-	om	4	12	43	38	omd	oc	om	Hours.
Deerness ...	996.9	42	NE	4	oc	1004.7	+	39	-3	NNE	5	-	oc	4	11	44	39	oc	oc	oc	0.0
Stornoway ...	997.1	44	NE	6	oc	1005.8	+5	38	-5	N	6	-	oc	6	9	44	36	oc	oc	oc	0.0
Castlebay (Barraisd.)	996.3	44	ENE	1	o	1007.6	+6	41	-2	NNW	4	-	oc	4	8	45	39	oc	o	oc	0.0
Glasgow ...	997.7	39	S	1	oc	1004.9	+4	37	-3	W	1	-	omd	+	3	42	34	omg	omd	ocod	0.0
Eskdalemuir ...	998.4	37	SSW	2	c	1005.1	+3	34	-5	-	0	-	o	4	4	40	33	ocdm	ocp	ocm	0.0
Malin Head ...	994.3	40	SW	1	om	1004.5	+4	42	+2	NNE	4	-	omr	4	4	45	39	omr	om	om	0.0
Blacksod Point ...	995.5	43	NW	3	omg	1005.3	+5	44	+4	NNE	7	NE	omr	5	6	44	39	omd	omd	ocm	0.0
Valencia ...	997.2	41	-	0	bc	1004.1	+4	45	+2	NNE	2	N	c	4	8	47	37	mrc	bc	m.c.c	2.4
Roche's Point ...	997.1	44	SE	1	c	1003.7	+	39	-1	-	0	-	o	2	7	46	34	ogpc	ogpc	o	0.0
Birr Castle ...	996.5	37	SSE	1	o	1004.0	+	39	+6	NW	1	-	f	+	-	40	31	o	o	o	0.0
Donaghadee ...	996.0	34	SSW	2	om	1003.4	+3	40	0	SE	2	SE	omg	1	1	41	38	omr	omg	om	0.0
Liverpool (Bidston) ...	998.6	40	SE	3	c	1003.4	+3	37	-3	SE	2	-	o	2	1	44	37	bc	bc	omg	0.8
Holyhead ...	997.3	42	S	3	cp	1003.2	+3	40	-3	S	1	-	ce	0	8	45	40	bc	oc	ocp	0.8
Pembroke (St. Ann's) ...	997.9	43	NE	2	cpv	1002.4	+2	41	-4	ENE	2	E	bc	2	6	47	40	ogov	cpv	bc	0.9
Scilly (St. Mary's) ...	997.7	46	SW	3	omg	1002.2	+2	43	-2	-	0	-	oc	3	2	50	40	c.ber	bc	bc	6.0
Falmouth ...	994.3	42	SSW	1	bc	1002.7	+3	37	-2	NNW	2	-	bc	+	1	50	37	bc	bc	bc	3.9
Jersey (St. Aubin) ...	1001.3	46	S	4	bc	1003.4	+	45	-1	SSE	2	-	o	2	-	49	44	bc	bc	bc	4.3
Portland Bill ...	999.2	49	SSW	4	ogp	1002.5	+1	47	-1	SSE	2	SW	bc	5	9	52	47	bc	ogp	bc	0.0
Dungeness ...	1003.0	46	S	4	o	1004.9	0	44	-1	SE	2	-	o	3	-	47	43	o.c.o	o.c.o	bc	0.0
Dover ...	1003.3	45	S	4	c	1005.0	0	43	-2	SE	2	SE	oc	3	0.2	45	42	c	c	ocp	0.2
Wick ...	996.3	44	E	2	o	1003.4	+5	40	-3	N	4	-	r	4	6	45	39	omr	omg	omr	0.0
Nairn ...	996.3	38	-	0	dm	1004.8	+	39	-2	NNW	4	-	oc	3	2	41	36	me	omd	om	0.0
Aberdeen ...	997.1	41	SW	2	bc	1004.1	+3	33	-12	NNW	2	-	c	2	0.3	45	31	omom	ombc	omex	0.7
Leith ...	997.4	39	SW	1	c	1004.4	+2	35	-6	W	1	-	bc	+	-	42	33	og	om	ocm	0.0
Tynemouth ...	998.4	40	SW	2	bc	1002.4	+1	38	-3	SW	1	-	oc	3	-	43	37	om	om	c.f	0.0
Spurn Head ...	1001.0	41	S	4	om	1005.2	+2	39	+1	SSW	3	-	om	4	1	42	35	bc	om	omr	0.0
Yarmouth ...	1003.5	42	SSW	3	c	1006.4	+2	42	+2	SW	3	-	om	3	-	46	38	bc	bc	omom	1.3
Clacton-on-Sea ...	1003.2	42	SSW	3	bc	1005.6	+1	42	-1	ESE	1	-	o	2	-	44	41	bc	bc	coge	3.1
Nottingham ...	1006.3	41	S	2	o	1004.8	+	37	+1	W	1	-	omc	+	0.1	43	34	om	c.o	o	1.6
Bath ...	998.6	37	S	-	bc	1004.3	+	32	-4	E	1	-	m	+	5	45	29	oc	oc	oc	0.8
St. Farnborough ...	1001.3	43	S	2	r	1004.7	+1	32	-6	E	1	-	oc	+	5	46	32	oc	oc	oc	1.2
London (Kew Obsy.) ...	1001.8	43	S	2	bc	1005.4	+2	41	+2	SSE	1	-	om	+	1	47	38	om	om	om	2.3
Spitsbergen ...	1012.4	73	SE	2	bc	1014.6	+2	20	+11	SE	2	+	bc	+	+	-6	-27				
Vardö ...	1002.9	18	SW	6	o	1006.3	+1	18	-1	NNW	5	-	s	4	+	19	10				
Bodö ...	1000.9	23	E	5	s	1007.8	0	23	+2	E	4	-	bc	2	+	23	12				
Christiansund ...	1004.3	27	SE	1	bc	1003.8	0	36	+13	-	0	-	s	4	7	36	23				
Skudenes ...	1003.9	36	SE	5	o	1005.6	0	34	0	SSE	4	-	o	7	6	34	34				
Færder (X'ianiafjord) ...	1009.2	28	NNE	2	s	1009.0	0	30	+3	N	1	-	o	+	3	30	27				
The Scaw (Skagen) ...	1008.2	36	SE	3	m	1004.7	+1	36	0	SW	2	-	o	2	1	37	30				
Blaavands Huk ...	1006.6	37	SSE	2	o	1010.3	+2	37	+1	SSW	2	-	o	2	Trace	37	32				
Haparanda + ...	1013.1	-17	NW	2	b	1015.3	0	9	+24	SSE	2	-	o	+	-	9	-17				
Hernösand + ...	1016.2	3	N	2	b	1010.6	-3	18	+27	-	0	-	s	+	1	18	-9				
Stockholm + ...	1012.3	32	-	0	f	1009.9	-1	34	+6	S	2	-	o	+	1	34	28				
Wisby + ...	1013.0	34	SSE	2	b	1010.7	0	34	-2	S	2	-	o	2	-	37	32				
Karlstad + ...	1010.2	27	-	0	s	1009.6	?	34	+13	-	0	-	o	+	1	30	21				
Petrograd (5 a.m. G.M.T.) ...																					
The Helder ...	1006.4	37	S	3	o	1008.4	0	36	0	SE	1	-	o	1	1	39	36				
C. Gris Nez ...	1004.6	41	S	4	o	1005.3	0	39	-1	SSE	2	+	r	2	Trace	41	39				
La Hève ...	1003.3	41	SSE	3	o	1003.0	+	41	+2	ESE	2	+	f	2	-	52	37				
Ushant ...																					
Brest (St. Mathieu) ...	1000.4	40	S	3	bc	1003.7	+1	40	-7	E	3	+	m	3	-	52	39				
Rochefort (Ile d'Aix) ...	1003.3	45	S	3	r	1001.7	?	42	-1	S	2	+	r	+	?	46	41				
Biarritz ...	1003.8	47	SSE	2	o	1001.1	0	45	-2	SE	2	+	bc	4	-	52	43				
Paris ...	1006.7	41	SE	2	o	1005.1	0	39	+2	-	0	-	o	+	6	41	37				
Belfort ...	1011.0	39	-	0	c	1010.7	+	32	+2	E	4	+	o	+	-	41	30				
Lyons ...	1006.3	46	S	2	o	1007.3	+	44	+2	NNE	2	+	o	+	-	41	38				
Nice ...	1013.3	45	-	0	o	1012.3	0	49	+8	-	0	+	o	4	Trace	52	41				
Perpignan ...	1005.1	50	SE	3	o	1003.1	+3	49	+13	SSW	2	S	r	+	5	52	36				
Sanguinaire ...	+	54	NE	2	o	+	+	54	+3	SE	4	+	c	3	-	57	48				
Corunna (7 a.m.) ...	1002.3	45	SW	3	o	1001.3	0	41	-4	S	2	NE	o	4	4	52	39				
Madrid (8 a.m.) ...	1005.6	32	-	0	s	1002.3	0	?	?	NNE	?	-	?	+	?	?	?				
Lisbon (9 a.m.) ...																					
Gibraltar ...	1007.8	53	W	5	clr	1002.0	+	49	-5	NW	6	+	bc	3	28	57	47				
Rome ...																					
Malta (8 a.m.) ...	+	+	+	+	+																
Azores (Horta, 8 a.m.) ...	1023.4	+	WSW	5	r	1022.6	0	59	0	-	0	+	c	2	3	64	59				
Madeira (Funchal) ...	1018.9	64	N	3	bc	1014.6	-3	61	0	NW	4	-	r	3	1	66	54				

BRITISH ISLANDS.

NORTHERN EUROPE.

FRANCE, &c.

SOUTHERN EUROPE.

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	0.2		

## RAINFALL.

Equivalents of Millimetres.  
in Inches.

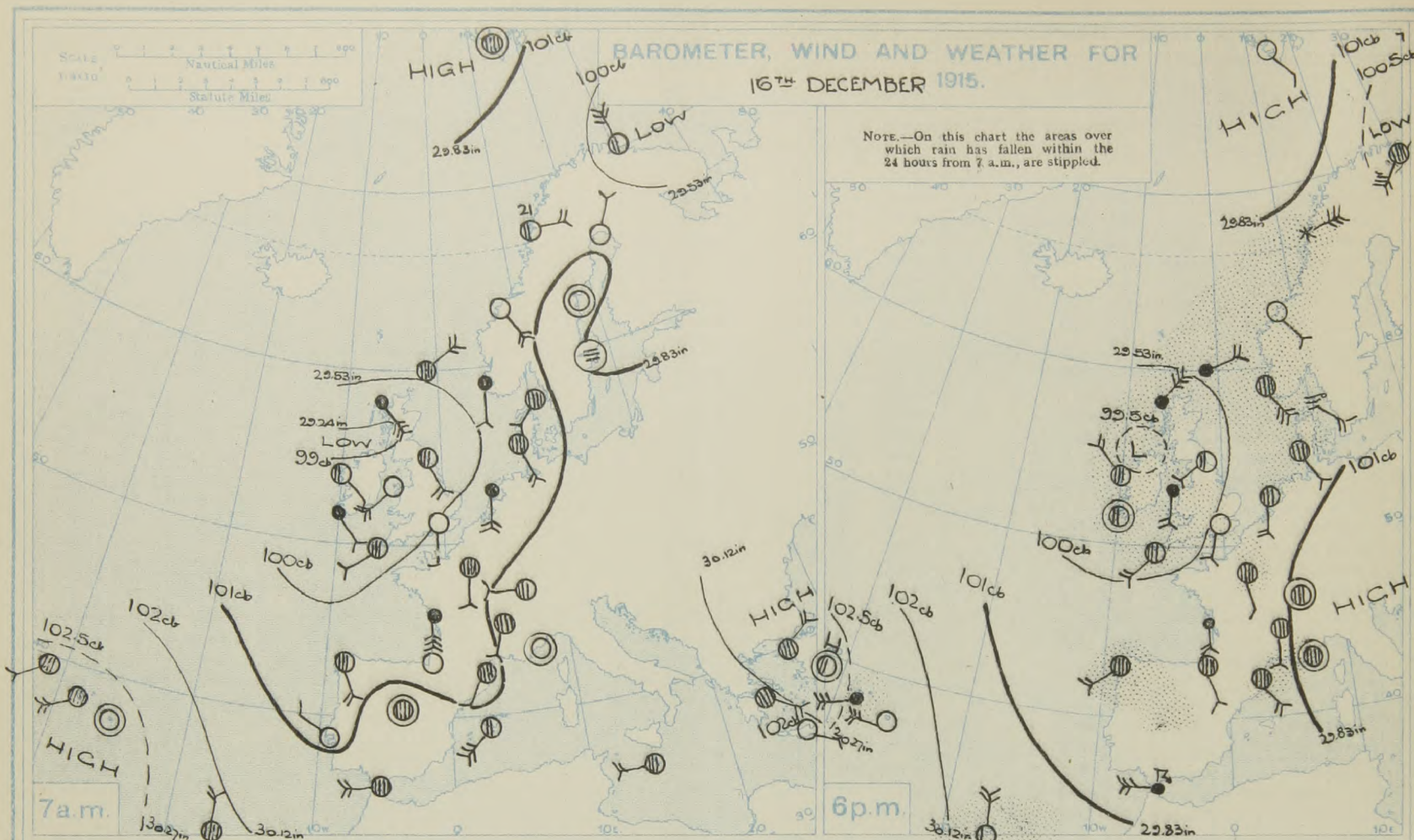
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69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

Pilot Balloon Ascent

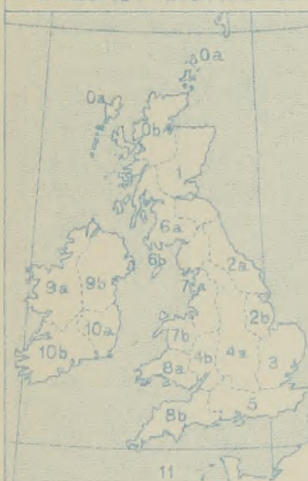
1700 metres. ENE. 3 miles per hour.  
300 metres. S. 8 "





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 11

- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | Northerly winds, light to fresh; much cloud, some rain or sleet; rather cold.   |
|    | b |   |   |
| 1  |   | } | Wind becoming Northerly or North-Easterly, light to moderate; much cloud, some rain and mist; colder.   |
| 2  | a |   |   |
|    | b | } | Light winds, mainly between South-East and South-West, then more variable, finally Northerly or North-Easterly; much cloud, some rain and mist; colder. |
| 3  | a |   |   |
| 4  | a | } | Same as Nos. 0 and 1.   |
|    | b |   |   |
| 5  |   | } | Wind mainly Northerly, light to moderate; some showers and mist; colder.  |
| 6  | a |   |   |
| 7  | a | } | Northerly winds, moderate or fresh, strong locally; much cloud, some rain; colder.  |
| 8  | a |   |   |
|    | b | } | Light variable to Northerly winds; sea slight; fair to cloudy.  |
| 9  | a |   |   |
| 10 | a | } |   |
|    | b |   |   |

FURTHER OUTLOOK.

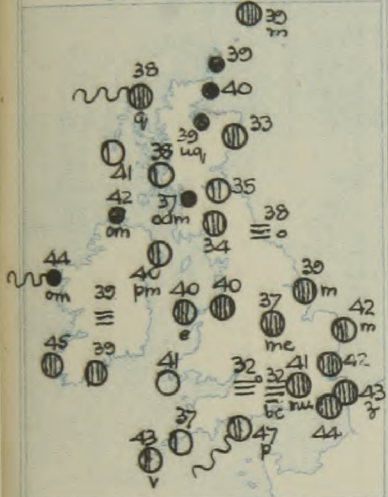


# SYNOPTIC CHART FOR 7 a.m., FRIDAY, 17<sup>TH</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

The Northerly wind current will extend further over the Kingdom, with a fall of temperature.

### 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:—

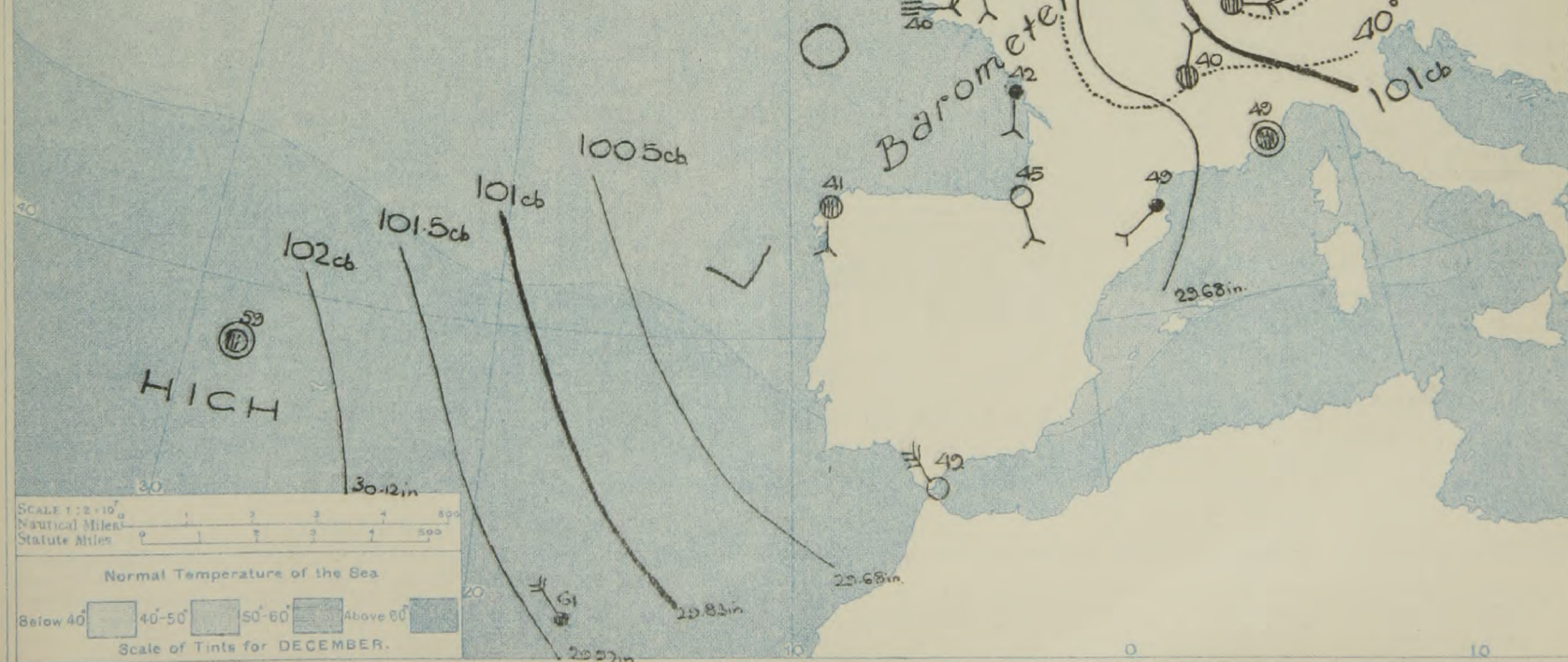
○ clear sky. ○ sky & clouded. ○ sky & clouded.

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

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

⚡, thunderstorm.

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





## DAILY WEATHER REPORT.

Friday, 17th December, 1915.

REPORTS  FOR  YESTERDAY.  <
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## 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	44	38	bc	0	Tunbridge Wells ...	...	...	...	...	...	...
	Banff ...	5	43	36	bc	0.8	Margate ...	1	46	35	c	c	0.4
	Carnoustie ...	...	...	...	...	...	Ramsgate ...	1	45	40	c	oc	0.2
	St. Andrews ...	...	...	...	...	...	Hastings ...	2	47	43	oc, bc	oc	1.6
Eng. N.E.	Harrogate ...	0.2	41	35	bm, c	0.2	Bexhill-on-Sea ...	...	...	...	...	...	...
	Skegness ...	-	43	38	b	4.5	Eastbourne ...	1	47	?	bc, bc	oc	1.6
Eng. N.W.	Morecambe ...	...	...	...	...	...	Seaford ...	3	48	44	oc	c	3.2
	Blackpool ...	2	45	37	bc, b	1.8	Brighton ...	6	48	44	bc, c	oc, oc	3.5
	Southport ...	1	43	36	bc, bc	2.3	Worthing ...	4	49	44	bc	oc	1.8
Midlands.	Buxton ...	2	44	35	bc	0.1	Littlehampton ...	8	47	43	bc	bc	4.7
	Leamington Spa ...	1	45	39	c, bc	1.2	Bognor ...	...	...	...	...	...	...
	Malvern ...	1	42	37	bc, c	0.0	Southsea ...	5	49	42	bc	bc	2.6
	Ross-on-Wye ...	0.3	45	36	od	0.5	Bournemouth ...	3	48	40	oc	oc	2.5
Wales.	Rhyl ...	-	48	37	bc	4.8	Weymouth ...	4	48	44	oc, bc	bc, c	1.1
	Colwyn Bay ...	-	45	41	bc	5.0	Torquay ...	2	43	38	oc	bc, b	1.2
	Llandudno ...	...	...	...	...	...	Paignton ...	3	47	35	oc, bc	bc, m	1.2
	Aberystwyth ...	4	46	39	oc, c	4.0	Falmouth ...	3	50	39	bc, bc	bc	3.9
	Tenby ...	9	47	39	bc	2.6	Penzance ...	3	50	41	oc, bc	bc	3.5
England, E.	Cromer ...	...	...	...	...	...	Newquay ...	?	49	37	c, bc	bc	2.9
	Lowestoft ...	2	45	39	c	0.9	Ilfracombe ...	1	45	39	o	c, bc	2.0
	Felixstowe ...	1	43	41	bc	1.1	Weston-super-Mare ...	0.3	46	38	bc, bc	c, bc	0.2
	Walton-on-Naze ...	1	44	41	bc, c	1.1							
	Southend-on-Sea ...	1	48	40	bc, bc	3.3							

## 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.) ...	88	45	3.8	48	39	32	3	bc. c	bc. c	oc. oc
City (Bunhill Row) ...	*	*		*	*	*	*	*	*	*
Westminster (St. James's Pk.)	93	90	1.8	49	43	35	4	bc. c	c. o	oc. oc
Camden Sq. (Brit. Rainfall)	91	98	1.2	47	40	35	4	bc. m. c	c. bc	*
Hampstead (Reservoir) ...	*	99	1.9	46	33	27	2	bc. bc	od. m	om
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.)				194 Joules		69 Milliwatts.		20 Milliwatts.		
S. Kensington (Roof of M.O.)	88	88	1.5							

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

17th December 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	
Yarmouth ...	8.3	11.58	3.37
Greenwich ...	8.3	11.56	3.40
Wick ...	8.4	11.57	3.50
Valencia ...	8.2	12.8	3.15
	8.47	12.37	4.27
	8.48	12.38	4.28

## NOTES ON YESTERDAY'S WEATHER.

Temperature touched 50° on our extreme south-west coasts. Rain fell generally, heavier in Scotland than elsewhere. In various English localities the sun shone for considerable periods, but in Ireland and Scotland the day was dull.

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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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.	
BRITISH ISLANDS.	Lerwick	1014.0	39	N	5	1022.6	+2	34	-5	N	2	-	bc	2	0.4	39	32	bc	bcpg	bc	Hours.
	Deerness	1014.2	37	N	6	1024.4	+	35	-4	N	2	-	bc	2	1	42	35	r.o.c	c.o.c.c	c.o.c	0.0
	Stornoway	1017.0	35	N	5	1027.0	+4	35	-3	N	2	-	o	2	2	39	34	efg	bcg	bo	1.4
	Castlebay (Barra Isd.)	1017.6	38	NNW	4	1026.6	+5	38	-3	N	2	-	bc	2	1	41	36	bc	b	bcg bc	2.9
	Glasgow	1013.6	37	E	1	1024.3	+5	32	-5	N	1	NE	bc	2	0.2	40	31	smc	c.o	c.bc	0.3
	Eskdalemuir	1012.4	36	N	3	1022.7	+6	34	0	NNW	5	-	bc	2	-	37	32	sm	bcg	sm	0.0
	Malin Head	1014.0	41	N	5	1023.9	+3	40	-2	ENE	5	NE	bcg	5	2	44	38	smc	cmg	bcg	0.0
	Blacksod Point	1016.4	40	NNE	7	1024.2	+4	37	-7	NNE	2	NE	bc	3	1	44	35	bcg	cmg	bcg	0.0
	Valencia	1014.6	44	NE	4	1022.3	+3	40	-5	NE	4	NE	c	3	Trace	46	40	bc	c	bc	0.9
	Roche's Point	1013.0	43	NW	3	1021.5	+	35	-1	NE	2	-	bc	2	-	43	38	o	of	bc	0.0
	Birr Castle	1013.3	41	N	1	1023.5	+	32	-7	N	2	-	c	2	2	41	32	sm	sm	c	0.0
	Donaghadee	1011.6	41	NE	2	1022.2	+3	40	0	ENE	4	E	bc	3	10	44	37	sm	sm	of sm	0.0
	Liverpool (Bidston)	1016.2	36	SSE	1	1020.1	+3	38	+1	N	2	-	og	1	-	40	34	os	sm	o	0.0
	Holyhead	1010.5	44	ENE	4	1020.4	+4	43	+3	ENE	4	-	og	3	0.1	46	40	o.c	c.o.c	bc	1.0
	Pembroke (St. Ann's)	1009.7	41	E	2	?	+3	40	-1	ENE	3	-	bc	1	-	45	38	bc	cf	bc	0.2
	Scilly (St. Mary's)	1008.2	46	NNW	1	1016.2	+3	43	0	ENE	2	E	c	4	4	52	41	bc	bc	bc	6.4
	Falmouth	1008.7	42	NNE	1	1017.0	+4	38	+1	NNW	2	-	o	3	-	48	37	bc	bcg	bc	4.5
	Jersey (St. Aubin)	1006.7	43	N	2	1013.8	+	44	-1	NE	4	-	o	3	2	48	42	bc	c.b	bc	0.8
	Portland Bill	1007.6	45	NE	2	1015.8	+3	35	-12	NNE	4	NE	og	4	-	48	34	bc	c.bc	bc	0.0
	Dungeness	1006.2	43	ENE	3	1012.8	+3	41	-3	NE	4	-	o	3	5	45	40	bc	bc	bc	0.0
	Dover	1007.9	41	NNE	3	1012.2	+3	42	-1	NNW	6	NW	o	3	9	43	39	o.c	c.o.p.d	bc	0.0
	Wick	1014.3	38	N	2	1023.6	+3	35	-5	N	2	-	bc	4	3	40	35	smg	smg	bc	0.0
	Nairn	1015.7	36	NNW	1	1025.5	+	35	-4	NW	2	-	bc	2	4	39	33	d.c	og	bc	0.0
	Aberdeen	1013.7	37	NW	3	1023.9	+4	36	+3	NW	3	-	o	2	1	40	32	bc	bc	bc	0.5
	Leith	1013.3	39	E	2	1025.0	+3	37	+2	NE	1	-	bc	2	-	40	34	bc	bc	bc	0.0
	Tynemouth	1010.8	39	N	1	1019.6	+5	42	+4	NE	3	NE	cm	5	1	42	36	bc	bc	bc	0.0
	Spurn Head	1010.4	34	NNE	2	1016.3	+2	42	+3	NNE	5	-	og	4	2	42	35	bc	bc	bc	0.0
Farmouth	1009.7	42	NE	2	1014.1	+3	42	0	NE	2	-	sm	2	6	43	40	sm	sm	sm	0.0	
Clacton-on-Sea	1008.7	42	NNW	1	1014.2	+2	41	-1	NNE	3	NE	o	2	10	43	37	og	og	og	0.0	
Nottingham	1010.6	34	NE	2	1017.3	+	40	+3	NNE	4	NE	o	2	0.2	40	34	fe	fe	me	0.0	
Bath	1007.5	36	E	-	1017.5	+	36	+4	NE	4	-	m	2	0.3	38	31	me	me	me	0.0	
St. Farnborough	1008.4	40	N	2	1015.9	+3	36	+4	NNW	2	-	og	2	-	41	32	bc	bc	bc	0.0	
London (Kew Obsy.)	1009.1	41	NNE	2	1016.2	+4	38	-3	N	3	-	cm	2	0.2	44	36	sm	sm	sm	0.0	
NORTHERN EUROPE.	Spitsbergen	1016.7	20	SSE	1	1023.5	+4	19	+1	SE	2	-	bc	2	-	?	?	?	?	?	0.0
	Vardö	1007.0	14	W	6	1006.1	0	12	-6	E	5	-	bc	3	2	18	12	?	?	?	0.0
	Bodö	1008.7	21	E	2	1009.5	0	19	-4	E	4	-	o	2	?	23	10	?	?	?	0.0
	Christiansund	1007.0	34	SE	3	1015.4	0	34	-2	SW	2	-	c	4	17	36	32	?	?	?	0.0
	Skudesnaes	1009.5	39	S	2	1016.2	+3	36	-3	N	3	-	bc	2	7	37	34	?	?	?	0.0
	Færder (X'ania Fjord)	1011.1	34	SW	1	1013.1	+3	32	+2	N	2	-	o	1	-	34	30	?	?	?	0.0
	The Scaw (Skagen)	1012.7	36	SW	3	1014.1	+1	34	+2	WSW	3	-	bc	3	Trace	37	34	?	?	?	0.0
	Blaavands Huk	1012.6	36	SSE	1	1015.8	+2	36	-1	SE	1	-	bc	0	-	37	32	?	?	?	0.0
	Haparanda																				0.0
	Hernösand																				0.0
FRANCE, &c.	Stockholm																			0.0	
	Wisby																			0.0	
	Karlstad																			0.0	
	Petrograd (5 a.m. G.M.T.)																			0.0	
	The Helder	1010.1	37	ENE	1	1014.1	+3	39	+3	NNE	3	-	o	2	4	39	36	?	?	?	0.0
	C. Gris Nez	1007.3	40	E	3	1011.1	+3	44	+5	NNE	6	-	bc	5	8	45	37	?	?	?	0.0
	La Hève	1006.3	41	-	0	1009.9	+	41	0	NE	2	-	o	2	9	45	37	?	?	?	0.0
	Ushant																			0.0	
	Brest (St. Mathieu)	1009.3	43	NE	2	1015.0	+3	41	+	NNE	2	-	bc	2	1	46	39	?	?	?	0.0
	Rochefort (Ile d'Aix)	1004.4	44	E	3	1007.8	0	41	-1	NE	5	-	o	2	-	46	39	?	?	?	0.0
Biarritz	1003.0	46	E	2	1003.3	0	43	-2	ENE	1	-	bc	5	2	48	43	?	?	?	0.0	
Paris	1006.3	43	SSE	2	1011.4	+2	39	0	NE	1	-	o	2	4	45	36	?	?	?	0.0	
Belfort	1011.3	31	E	4	1013.1	+	28	-4	E	4	-	bc	2	-	37	26	?	?	?	0.0	
Lyons	1007.8	44	SE	1	1010.9	+	39	-1	S	1	-	o	2	1	49	38	?	?	?	0.0	
Nice	1008.8	44	E	4	1011.5	+	49	0	E	1	-	o	5	3	52	48	?	?	?	0.0	
Perpignan	1002.4	50	SE	1	1003.3	+2	45	-4	-	0	S	bc	2	20	54	43	?	?	?	0.0	
Sanguinaire		55	E	5			54	0	E	3	-	o	2	-	57	50	?	?	?	0.0	
SOUTHERN EUROPE.	Corunna (7 a.m.)	1005.3	50	NNE	4	1013.5	+4	43	+7	E	3	NE	bc	4	4	50	41	?	?	?	0.0
	Madrid (8 a.m.)	1001.7	36	NNW	2	1005.7	+3	34	2	N	1	N	bc	2	7	37	34	?	?	?	0.0
	Lisbon (9 a.m.)																			0.0	
	Gibraltar	1003.7	51	W	4	1004.4	+	46	-3	NW	4	-	bc	2	4	56	45	?	?	?	0.0
	Rome																			0.0	
	Malta (8 a.m.)					1016.2	0	61	+4	ESE	2	-	bc	2	-	63	57	?	?	?	0.0
Azores (Horta, 8 a.m.)	1022.3		SW	2	1020.3	-2	60	+1	S	5	-	c	4	-	66	59	?	?	?	0.0	
Madeira (Funchal)																				0.0	

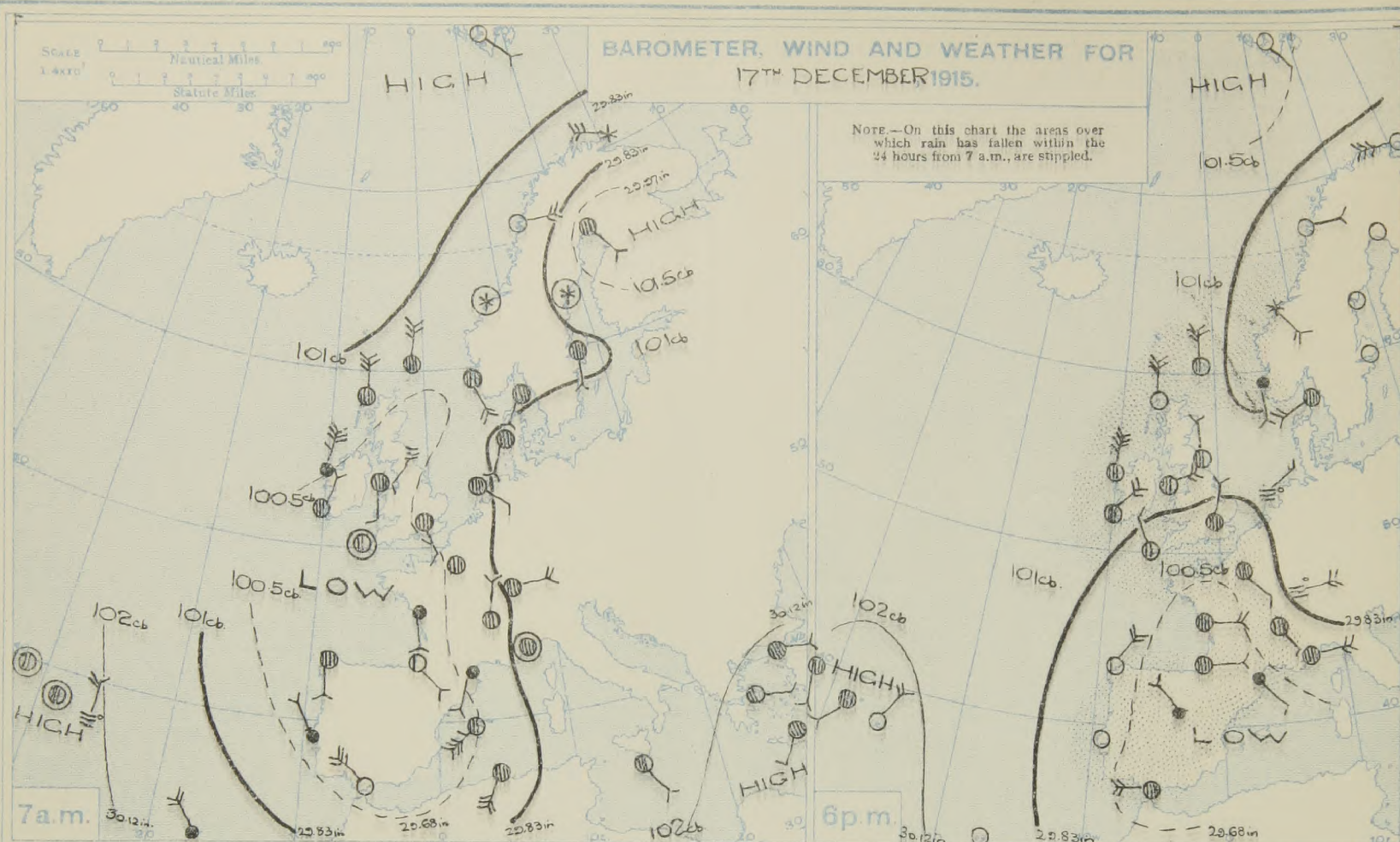
RAINFALL.			
Equivalents of Millimetres. in Inches.			
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59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

## RAINFALL.

Equivalents of Millimetres.  
in Inches.

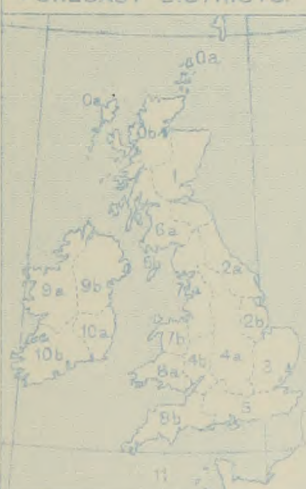
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69
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 } Northerly winds, light or moderate; fair generally; rather low temperature.

2 } Wind between North and North-East, light or moderate generally, mostly cloudy or overcast, some slight rain locally at times; moderately low temperature.

6 } Same as Nos. 0 and 1.

7 } Northerly and North-Easterly winds, light or moderate; fair generally, dull at times; moderately low temperature.

9 } North-Easterly and Northerly winds, light or moderate; fair generally; rather cold.

10 } North-Easterly winds, light or moderate; sea moderate or slight; fair.

#### FURTHER OUTLOOK.

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

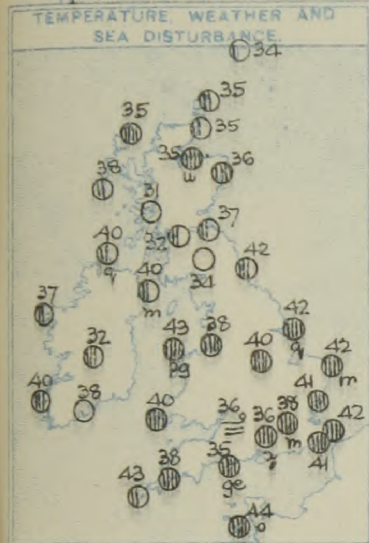
W. NAPIER SHAW, Director.



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

## GENERAL INFERENCE.

The general distribution of pressure over the British Islands and their neighbourhood will continue anticyclonic for the present.



## 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:—

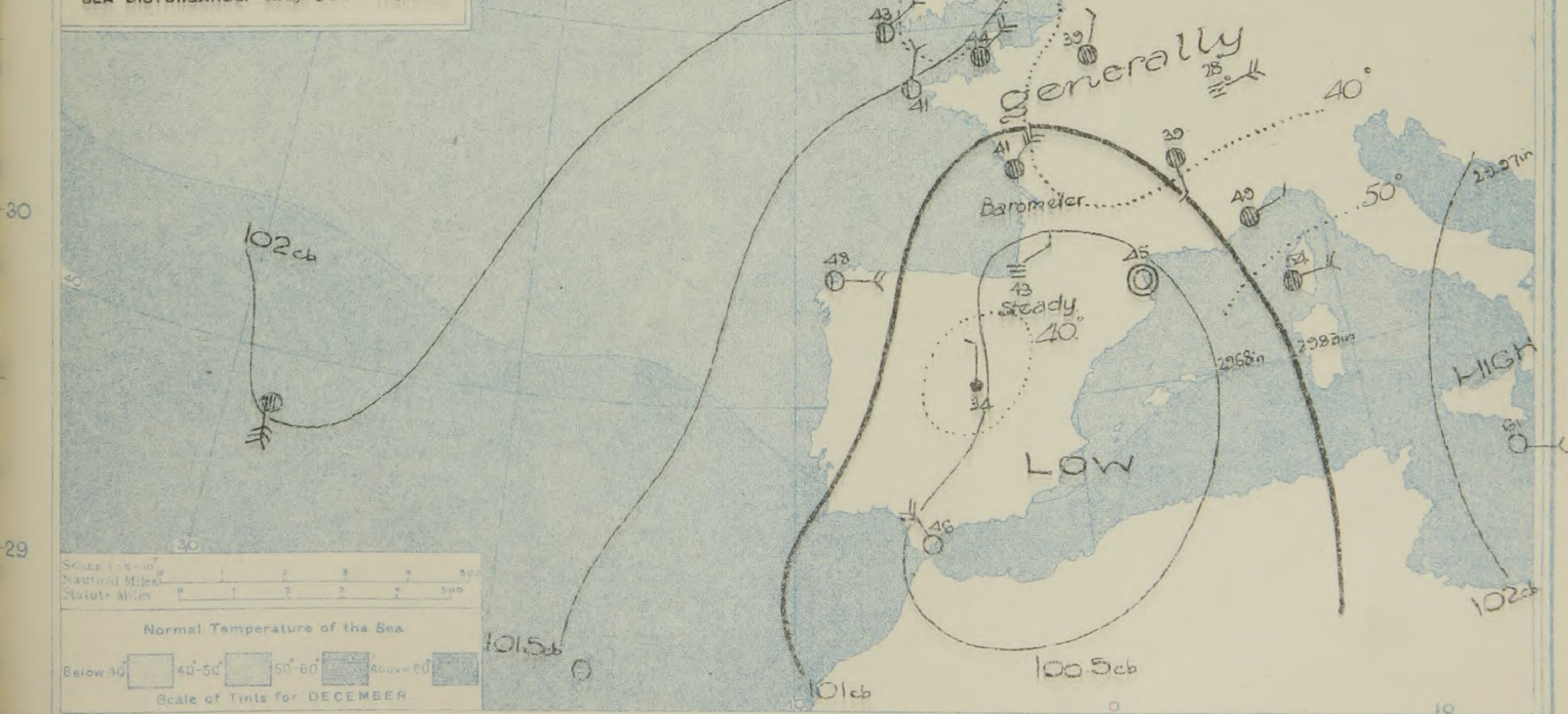
○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.

○ sky 2/3 clouded. ○ overcast sky. ● rain falling.

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

⚡, thunderstorm.

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





## DAILY WEATHER REPORT.

Saturday, 18<sup>th</sup> December 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.							
			° F.						° F.	° F.									
	Lisbon ...	1003.7	55	SW	2	0	1003.5	+1	46	-2	NNW	2	-	r	0	35	45		
	Malta ...	"	"	"	"	"	1019.1	0	57	+3	SSE	2	-	c	1	59	54		
17 <sup>th</sup> December.																			

17<sup>th</sup> December

## 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	43	38	bc	c	3.8	Margate ...	3	44	42	o	od	0.0
Banff ...	3	42	34	ro	o	0.0	Ramsgate ...	"	43	41	od	o	0.0
Carnoustie ...	"	39	28	*	*	0.1	Hastings ...	1	46	41	o	bc	0.0
St. Andrews ...	"	"	"	"	"	"	Bexhill-on-Sea ...	"	"	"	"	"	0.0
England, N.E.							Eastbourne ...	"	46	41	sf	f	0.0
Harrogate ...	0.3	37	35	of	of	0.0	Seaford ...	0.3	46	37	o	o	0.0
Skegness ...	"	39	37	moz	ogm	0.0	Brighton ...	"	45	40	bc, o	o	0.0
England, N.W.							Worthing ...	"	45	41	c	c	0.0
Morecambe ...	"	42	37	o	o	0.0	Littlehampton ...	"	45	42	bc	bc	1.6
Blackpool ...	2	41	34	ovm, o	oc	0.0	Bognor ...	"	"	"	"	"	"
Southport ...	1	38	35	oom	oc	0.0	Southsea ...	4	40	37	o	bc	1.0
Midlands.							Bournemouth ...	1	46	38	o, c	o	1.5
Buxton ...	1	41	31	cm	om, f	0.0	Weymouth ...	7	45	40	bc, c	c	0.7
Leamington Spa ...	"	"	"	"	"	"	Torquay ...	4	47	35	cm	c	2.8
Malvern ...	0.3	33	31	m	m	2.2	Paignton ...	4	47	32	bc, bc	bc, m	2.2
Ross-on-Wye ...	"	39	27	f	f	0.0	Falmouth ...	"	48	37	bc, bc	bc, bc	4.5
Wales.							Penzance ...	1	47	36	bc, bc	bc, bc	6.0
Rhyl ...	3	43	35	bc	bc, o	1.0	Newquay ...	"	50	34	bc	bc	5.6
Colwyn Bay ...	3	46	39	bc	bc	0.8	Ilfracombe ...	"	46	33	bc, bc	bc, bc	5.1
Llandudno ...	"	"	"	"	"	"	Weston-super-Mare ...	"	38	31	bc, m	m, f	1.5
Aberystwyth ...	4	46	39	ro, c	bc, o	1.0							
Tenby ...	11	48	40	bc, o	bc	1.4							
England, E.													
Cromer ...	"	"	"	"	"	"							
Lowestoft ...	"	44	41	c, o	om	0.0							
Felixstowe ...	2	43	40	o	op	0.0							
Walton-on-Naze ...	"	"	"	"	"	"							
Southend-on-Sea ...	"	44	39	of	o	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.										
	%	%	Hr.	" F.	" F.	" F.	mm.‡			
Greenwich (Royal Obsy.) ...	88	73	0.0	44	86	36	-	c. 0	03 c	0.
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	90	93	0.0	46	37	35	-	0 c	0	fine
Camden Sq. (Brit. Rainfall)	97	93	0.0	43	36	34	-	6.0	0.0m	*
Hampstead (Reservoir) ...	*	98	0.0	42	33	27	-	afe	0	0
Richmond Park	*	*		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.)				95 Joules		34 Milli-watts.		6 Milli-watts.		
S. Kensington (Roof of M.O.)	92	91	0.0	95	Joules	34	Milli-watts.	6	Milli-watts.	

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

18 <sup>th</sup> Dec. 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	8.3	11.50	3.37
Greenwich ...	8.4	11.57	3.50
Wick ...	9.2	12.4	3.16
Valencia ...	8.48	12.38	4.48

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. mm.†	TEMPERATURE.			WEATHER.		Sun- shine for Yester- day. Hr.
		In Screen.	Night Min. on Grass.	Night.			
		Max.	Min.				
Dublin to 4 p.m.	mm.†	°F.	°F.	°F.			
Darwen to 9 p.m.	Trace	44	37	34	c	cf	cd
Manchester "	"	"	"	"	"	"	"
Birmingham "	"	"	"	"	"	"	"
Oxford to 8 p.m.	"	"	"	"	"	"	"
Teignmouth to 9 "	9	46	33	32	bc, bc	bc, r	bc
Plymouth "	"	"	"	"	"	"	2.7
S. Kensington (Museum Grounds to 6 p.m.)	0.1	46	42	31	bc, m	om, m	om, m

## NOTES ON YESTERDAY'S WEATHER.

Temperature touched 50° at Newquay and Scilly, but failed to reach 40° in many other parts of the Kingdom. Rain was experienced in nearly all districts and the duration of bright sunshine was very slight, except in the south-west of England, and locally in Scotland.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 353.

SUNDAY.

19<sup>th</sup> DECEMBER, 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.					
			Dir.	Force 0-12.				Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.			
Lerwick ...	1025.5	33	NW	2	om	1026.6	+1	33	-1	-	0	-	om	0	1	36	33	bc	osp	om	Hours.		
Deerness ...	1026.7	35	WNW	1	0	1027.7	+	37	+2	S	1	-	r	2	5	41	36	bc	c	or	0.0		
Stornoway ...	1030.2	35	WNW	1	0	1030.4	0	37	+2	W	2	-	od	2	1	38	34	o.c	o.c	cz. odr	2.1		
Castlebay (Barra Isd.)	1030.3	37	N	1	bc	1030.6	0	40	+2	-	0	-	o	1	0.1	42	35	bc	bc	bc. o	1.5		
Glasgow ...	1031.1	31	NNE	1	bz	1032.0	-2	29	-3	WSW	1	-	b	*	-	37	27	bc	b	bf. bc	5.6		
Eskdalemuir ...	1030.8	27	-	0	bx	1032.8	-1	19	-15	-	0	N	bcx	*	-	36	17	bcb	b bx	bx. bc	6.0		
Malin Head ...	1030.0	38	NNE	3	c	1031.9	0	33	-7	S	2	N	bcx	2	-	42	32	bc	ev	bcx	2.2		
Blacksod Point ...	1030.4	36	ESE	3	bz	1031.1	-2	36	-1	ESE	1	-	bc	2	-	45	31	bc	bz	bz. bc	2.2		
Valencia ...	1028.9	36	ENE	2	b	1031.5	0	30	-10	E	2	-	bx	3	0.1	42	29	bc	b	b. bx	6.2		
Roche's Point ...	1029.1	43	NW	1	b	1032.6	+	34	-4	N	1	-	b	1	0.1	44	34	b	b	bx	0.0		
Birr Castle ...	1030.2	30	N	1	b	1033.4	+	21	-11	N	1	-	b	*	-	39	21	b	bx	bx	6.2		
Donaghadee ...	1029.7	38	ENE	3	bm	1032.1	+1	33	-7	SW	1	-	bcmx	2	-	41	32	bz	bm	bcmx	1.9		
Liverpool (Bidston)	1028.7	37	N	2	b	1032.3	0	34	-4	-	0	-	b	1	-	40	33	o.c	bc	bx	1.9		
Holyhead ...	1028.2	42	ENE	5	bc	1032.1	0	33	-10	SE	2	-	bx	1	-	45	32	bc	bc. bc	bc. bx	2.2		
Pembroke (St. Ann's)	1026.5	40	NE	3	b	1032.0	0	35	-5	ENE	1	-	b	1	-	43	35	bc. bml	bc	b	3.6		
Scilly (St. Mary's)	1022.8	45	NE	4	cm	1028.9	+1	43	0	E	3	NE	c	4	-	47	40	cpm	cm	bc. c	4.2		
Falmouth ...	1024.0	40	NNE	2	02	1030.0	+2	33	-5	N	1	-	b	*	-	42	32	b. bc	bc. c. o	o. bc. bx	3.3		
Jersey (St. Aubin)	1017.7	46	NE	4	ogp	1026.4	+	45	+1	NE	5	NE	bc	4	1	46	43	0	ogp	ogp. bc	0.0		
Portland Bill ...	1020.7	40	NE	5	bc	1028.7	+3	37	+2	NE	5	-	bc	4	-	43	36	bc	bc	bc. c	0.0		
Dungeness ...	1019.7	45	NE	5	of	1027.6	+3	38	-3	NE	4	NE	bc	3	3	45	37	og	of	of. bc	0.0		
Dover ...	1021.1	43	NNE	6	r	1028.8	+2	37	-5	NNW	5	NE	b	3	2	44	36	of	of. bc	of. bc	0.0		
Wick ...	1028.0	33	W	2	bc	1028.1	+1	40	+5	WNW	2	-	r	3	4	41	30	bcps	bc	bc. odr	0.0		
Nairn ...	1030.1	31	-	0	bcx	1030.3	+	35	0	NW	2	-	od	2	1	35	30	bc	bc	bc. cd	1.5		
Aberdeen ...	1029.2	34	WNW	3	b	1029.1	0	39	+3	WNW	5	-	o	2	-	39	31	osp. bc	bc. b	bc. c. o	0.9		
Leith ...	1030.7	34	SW	1	b	1032.4	0	33	-4	SW	1	SW	b	1	-	37	29	b	b	b	0.0		
Tynemouth ...	1028.3	38	NNE	2	ogm	1030.1	+1	32	-10	W	2	W	cm	4	2	41	30	cm	cm	cm	0.0		
Spurn Head ...	1025.8	42	ENE	5	ogp	1030.5	+1	39	-3	NE	4	-	bcg	4	1	43	35	ogp	ogp	bcg	2.1		
Yarmouth ...	1022.8	42	NE	4	bc	1029.3	0	36	-6	NNE	3	-	bc	3	-	43	36	cm	bc	bc	0.0		
Clacton-on-Sea ...	1021.9	43	NNE	4	bc	1029.0	+1	35	-6	NNW	3	-	bc	2	-	45	35	o.c	c. bc	bc. bc	0.0		
Nottingham ...	1026.2	39	NNE	3	c	1031.2	+	36	-4	N	3	N	c	*	-	43	33	o.c. b	bc	c. b	2.7		
Bath ...	1025.8	42	NE	1	bc	1031.1	+	28	-8	W	?	-	b	*	-	43	27	mo	m. o. c. bc	o. c. bc. b	0.0		
St. Farnborough ...	1022.6	42	NNE	3	o	1029.9	+2	30	-6	-	0	-	bx	*	-	42	29	m. o. c. o	o. c. o	o. b	0.1		
London (Kew Obsy.)	1023.5	43	NNE	3	cm	1030.6	+2	32	-6	N	1	-	bm	*	Trace	44	32	om	om. cm	om. cm	0.1		
Spitsbergen ...	1030.3	-22	-	0	b	1029.0	0	-15	+4	S	1	-	b	*	-	-18	-26						
Vardö ...	1010.0	21	-	0	o	1013.0	0	18	+6	NNE	2	-	o	2	*	21	9						
Bodö ...	1010.9	23	ESE	3	c	1011.0	-2	21	+2	E	2	-	c	2	-	23	14						
Christiansund ...	1015.4	32	WNW	4	s	1018.1	0	34	0	NW	6	-	c	4	?	34	32						
Skudesnaes ...	1020.6	32	NNW	3	b	1022.6	+1	30	-6	N	2	-	c	2	-	36	28						
Færder (X'ianla Fjord)	1015.8	28	N	2	c	1019.4	+2	23	-9	NNW	1	-	b	1	-	32	23						
The Scaw (Skagen)	1016.0	34	NNE	3	c	1018.9	0	32	-2	NNE	3	-	c	3	-	37	30						
Blaavands Huk ...	1019.9	37	N	1	b	1023.0	0	37	+1	NW	2	-	r	4	Trace	37	32						
Haparanda ...	1011.7	-9	N	2	b	1014.1	+1	-17	-17	NNE	2	-	b	*	-	5	-17						
Hernösand ...	1015.4	3	-	0	b	1014.6	0	-2	-23	N	2	-	b	*	-	21	-4						
Stockholm ...	1013.6	27	NNE	2	o	1015.5	0	14	-20	-	0	-	bc	*	2	34	-2						
Wisby ...	1013.6	36	W	2	o	1013.5	+4	30	-4	NNE	6	-	o	*	1	36	28						
Karlstad ...	1015.8	21	NW	2	bc	1018.9	+3	7	-27	-	0	-	b	*	-	32	3						
Petrograd (5 a.m. G.M.T.)	1011.1	32	SW	3	s	1008.3	-1	30	-	NW	2	-	o	*	1	32	30						
The Helder ...	1021.5	39	N	3	c	1027.7	+1	39	0	N	2	-	c	1	1	41	37						
C. Gris Nez ...	1020.4	44	NE	5	o	1027.3	+2	38	-6	E	4	-	bc	2	5	45	38						
La Hève ...	1019.0	43	NE	3	o	1025.1	+	37	-7	NE	3	-	b	2	-	46	36						
Ushant ...	1020.3	45	NE	5	o	1025.6	+3	45	+4	NE	3	-	c	2	-	46	43						
Brest (St. Mathieu)	1010.0	43	NE	5	o	1018.6	+3	41	0	ENE	5	-	b	*	2	46	41						
Rochefort (Ile d'Aix)	1006.9	42	ESE	2	o	1013.5	+2	41	-2	E	1	-	o	4	15	43	37						
Biarritz ...	1017.3	43	NE	2	o	1024.0	+2	39	0	NE	3	-	o	*	2	43	36						
Paris ...	1017.3	30	-	0	m	1021.1	+	28	0	S	6	-	m	*	-	39	27						
Belfort ...	1015.4	39	N	2	o	1017.9	+	32	-7	NW	1	-	o	*	-	44	32						
Lyons ...	1012.8	51	E	3	r	1012.3	0	47	-2	-	0	-	r	5	1	52	45						
Nice ...	1008.0	46	W	1	o	1011.3	+2	46	+1	N	1	E	r	*	23	54	45						
Perpignan ...																							
Sanguinaire ...																							
Corunna (7 a.m.)	1006.3	41	N	1	r	1013.3	+4	34	0	-	0	-	m	*	2	41	32						
Madrid (8 a.m.)	1010.6	52	NW	5	b	1012.6	0	45	-3	NNE	4	-	b	?	-	55	45						
Lisbon (9 a.m.)																							
Gibraltar ...																							
Rome ...																							
Malta (8 a.m.)						1014.7	+1	63	+2	SSW	4	-	o	3	-	66	59						
Azores (Horta, 8 a.m.)	1019.5	61	S	5	r	1015.9	-1	61	+1	SSE	5	-	o	5	2	61	57						
Madeira (Funchal)	1019.3	61	NE	3	o	1019.0	-1	57	-2	NE	3	N	bc	3	-	64	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
17	0.67	42	1.65
18	0.71	43	1.69
19	0.75	44	1.73
20	0.79		

## RAINFALL.

Equivalents of Millimetres.  
in Inches.

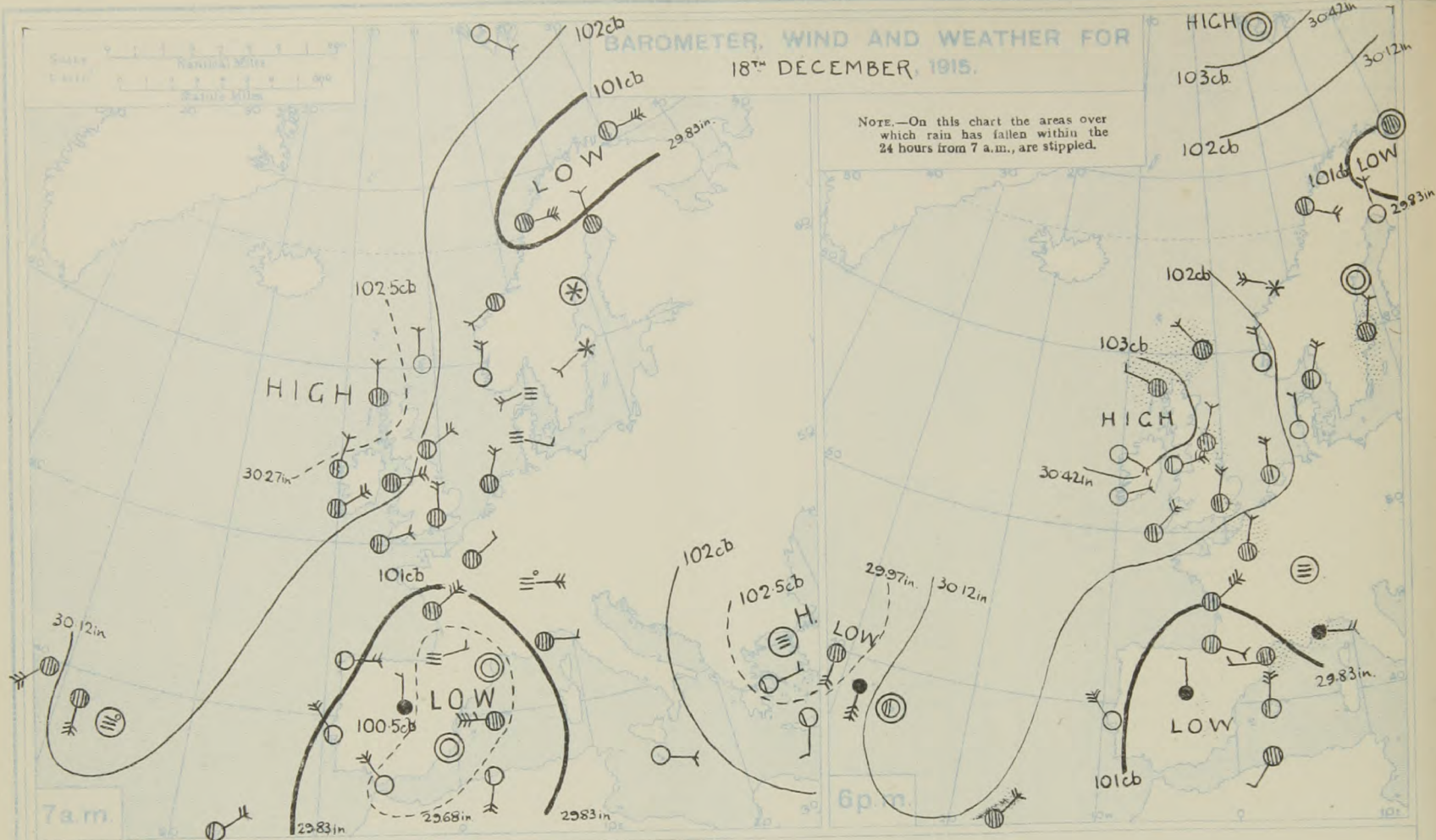
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69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

No Warnings Issued.

Western Channel and Bay 11

- |  |  |
|--|--|
| 0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11 | <div style="display: flex; align-items: center;"> <div style="font-size: 3em; margin-right: 10px;">}</div> <div> <p>Wind light or moderate between North-West and West; some rain or sleet locally; much cloud; moderately low temperature.</p> <p>Wind light from some Northerly point; fair generally; mist or fog locally; rather cold.</p> <p>Northerly or North-Easterly winds, light or moderate; mostly fair or bright, mist locally; rather cold.</p> <p>Light Westerly or variable winds; fair; cold.</p> <p>Light variable winds; mostly fair, mist or fog locally; cold.</p> <p>Light North-Easterly or Easterly winds; fair; cold.</p> <p>Light variable winds; mostly fair; cold.</p> <p>Easterly or North-Easterly winds, light or moderate; sea moderate or slight; fair.</p> </div> </div> |
|--|--|

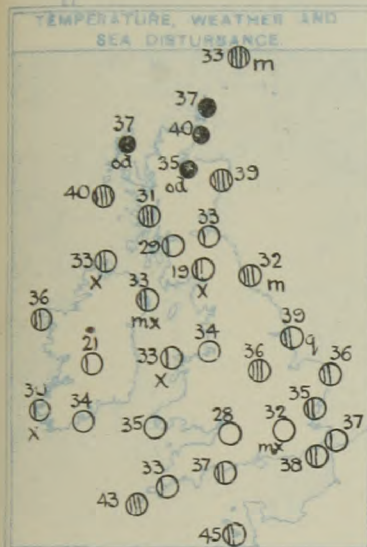
**FURTHER OUTLOOK.**



# SYNOPTIC CHART FOR 7 a.m., SUNDAY, 19<sup>TH</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

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



## EXPLANATION.

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

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

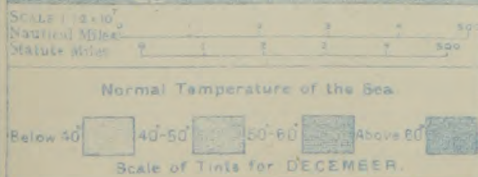
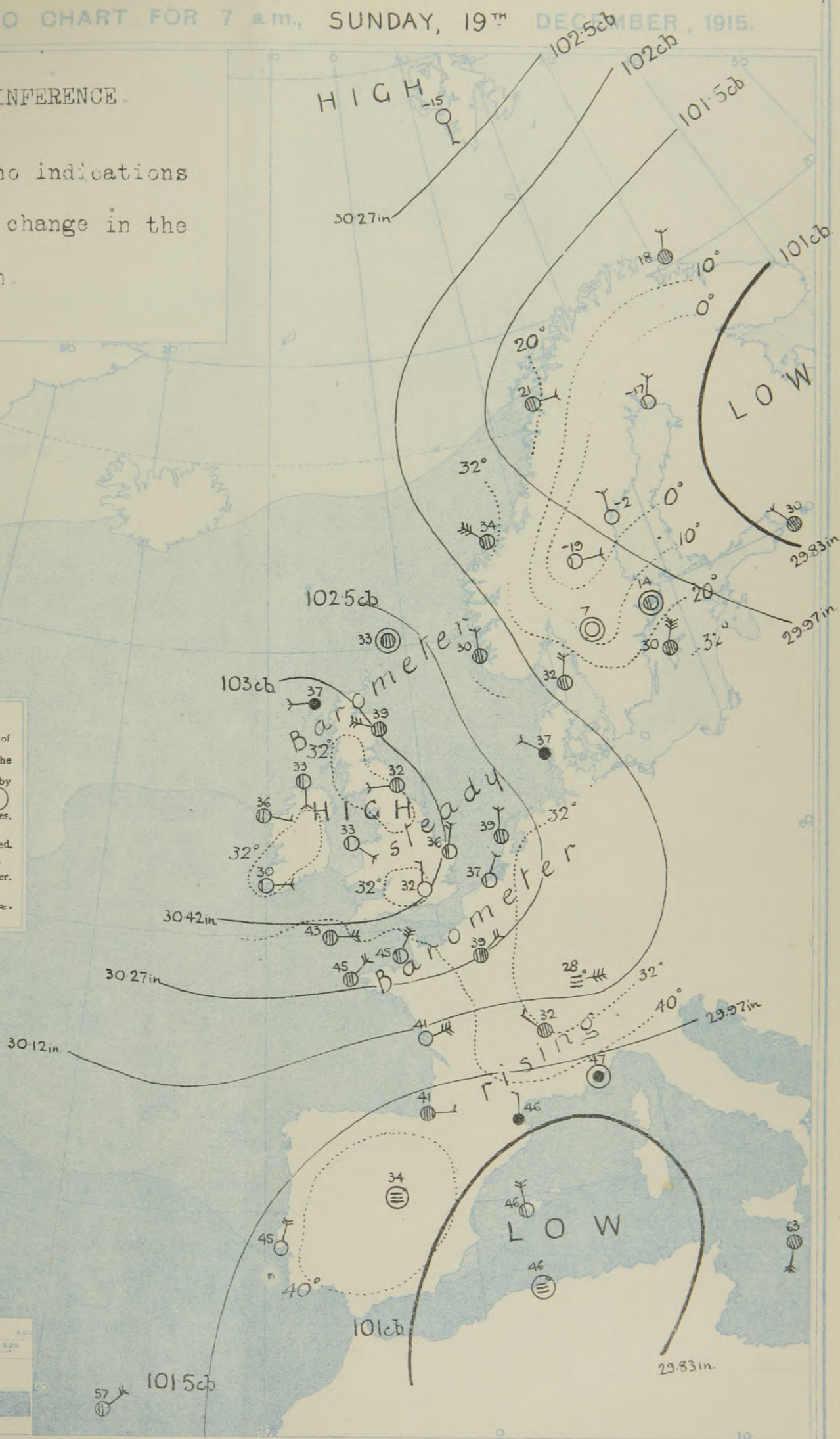
Force, on the scale 0-12, is indicated by the number of feathers. Calm

**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





## DAILY WEATHER REPORT.

Sunday, 19th December, 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 0-10.	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.
	Haparanda	1011.9	5	SSE	4	o	1012.8	+2	o	-9	N	2	-	o	+	1	10	20	
	Hernösand	1006.4	27	-	o	b	1011.9	+3	21	+3	-	o	o	S	+	4	30	10	
	Stockholm	1012.2	30	SW	2	o	1012.6	o	34	o	SW	2	-	S	+	Trace	34	30	
	Wibby	1014.1	34	WNW	2	o	1014.9	o	34	o	W	2	-	o	+	-	36	30	
	Karlskrd	1011.5	30	-	o	o	1012.8	o	34	o	-	o	o	o	+	-	36	21	
	Lisbon	1003.9	50	WSW	2	bc	1009.0	+2	14.8	+2	NNW	4	-	b	+	1	52	45	
	Funchal	1015.4	64	NW	4	r	1016.8	+2	59	-2	NE	3	-	bc	3	-	70	59	
18th December 1915																			

18th December, 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.													
Oban ...	...	41	29	b	b	5.0	Tunbridge Wells ...	...	46	31	or	or	0.0
Banff ...	...	42	34	c. bc	bc. c.	1.9	Margate ...	...	43	40	or	sd.	0.0
Carnoustie ...	...			*	*		Ramsgate ...	...	43	39	or. o	sd.	0.0
St. Andrews ...	...						Hastings ...	...	43	39	or. o	sd.	0.0
England, N.E.							Bexhill-on-Sea ...	...					
Harrogate ...	...	39	35	c. bc	bc. c.	1.1	Eastbourne ...	...	44	39	of	o	0.0
Skegness ...	...	43	36	c. bc	bc	2.2	Seaford ...	...	44	38	o	o	0.0
England, N.W.							Brighton ...	...	44	39	om. o. c.	c. o	0.4
Morecambe ...	...						Worthing ...	...	44	39	o	o	0.1
Blackpool ...	...						Littlehampton ...	...	45	37	bc	bc. o	1.6
Southport ...	5	42	34	c. bc	c. b.	3.0	Bognor ...	...	44	33	m. b	bc. o	3.1
Midlands.							Southsea ...	...					
Buxton ...	...	39	31	bc	bc	1.9	Bournemouth ...	...	43	34	cm. c	c	1.8
Leamington Spa ...	0.1	43	31	of c	c. bc.	0.8	Weymouth ...	...	42	34	o	o. b.	0.4
Malvern ...	...						Torquay ...	...	45	34	m. o. c.	b	0.4
Ross-on-Wye ...	...	41	32	om. c.	bc. o.	0.0	Paignton ...	...	42	34	o. c.	c. bc.	0.1
Wales.							Falmouth ...	...	42	37	b. bc	bc. c. o	3.3
Rhyl ...	0.2	42	36	c. bc	bc. c.	1.5	Penzance ...	...	45	38	b	bc. b.	3.1
Colwyn Bay ...	...						Newquay ...	...	43	34	c. bc. b.	b. bc.	1.2
Llandudno ...	...						Ilfracombe ...	...	45	38	o	o	0.0
Aberystwyth ...	...	43	38	o. c.	c. o.	1.0	Weston-super-Mare ...	...					
Tenby ...	...	43	37	b	bc.	4.7							
England, E.													
Cromer ...	...												
Lowestoft ...	...												
Felixstowe ...	11	42	39	c	bc.	0.0							
Walton-on-Naze ...	10	44	39	bc. c.	c. og. c.	0.1							
Southend-on-Sea ...	6	44	39	c. bc	o	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.) ...	85	95	0.0	46	30	24	0	c. bc. m.	bc. m.
City (Bunhill Row) ...	*	*	0.3	*	*	*	*	*	*
Westminster (St. James's Pk.)	88	86	0.1	45	34	29	om. o	o	bc. m.
Camden Sq. (Brit. Rainfall)	84	85	0.4	44	31	28	bc	bc.	*
Hampstead (Reservoir) ...	*	80	0.7	42	30	20	o. o	c. bc.	b
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.)				149	Joules		53 Milli-watts.		
S. Kensington (Roof of M.O.)				94	77		0.3		

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

1915. 20th Dec.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	8.3	11.50	3.37
Greenwich ...	8.4	11.51	3.38
Wick ...	8.4	11.51	3.51
Valencia ...	8.2	12.9	3.16
	8.2	12.10	3.17
	8.10	12.28	4.25
	8.10	12.29	4.24

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose above 45° at a few stations. Some snow showers were experienced in the north-east of Scotland, but the amounts of precipitation measured were small. Sunshine varied from zero at several stations to 6.2 hours at Valencia and Birr Castle.

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## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 354.

Monday,  
20th December, 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. Dry Bulb. ° 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 ...	1022.4	37	NNE	2	om	1025.7	0	36	+3	NE	3	NE	bc	2	5	37	32	om o	omd.	bc.	Hours.		
	Deerness ...	1025.0	41	W	3	bc	1025.0	0	37	0	E	2	-	o	3	6	42	37	r.o	op c bc	bc c o	0.0		
	Stornoway ...	1028.1	40	SW	3	o	1022.3	-3	42	+5	SE	4	-	ad	4	7	43	37	om o	o	od.	0.0		
	Castlebay (Barraisd.)	1029.0	42	W	4	r	1022.3	-3	48	+8	W	4	-	r	4	13	48	39	c	or	r	0.4		
	Glasgow ...	1030.6	35	W	1	o	1026.2	-3	36	+7	SSW	1	-	omr	2	2	36	29	fa	f o c	cf omr	0.0		
	Eskdalemuir ...	1031.5	29	-	0	o	1026.7	-2	34	+15	-	0	-	o	0.2	0.2	37	18	z c	c o	oc o	0.0		
	Malin Head ...	1030.9	36	S	1	cg	1025.4	-3	45	+12	W	4	-	omr	3	1	46	33	cg	cg	omd.	0.7		
	Blackod Point ...	1030.8	42	SW	3	cm	1027.8	-3	44	+5	WSW	3	W	cm	3	-	46	34	bc	cg	cm	0.0		
	Valencia ...	1023.4	38	ENE	2	oy	1031.2	-2	41	+11	NNE	2	W	o	3	0.1	44	29	bcx c	bc bz c	oc o	1.6		
	Roche's Point ...	1033.6	38	NE	1	b	1031.2	0	42	+8	NNE	1	-	o	1	0.2	42	33	b. bcm	bc b	b. bc c o	0.6		
	Birr Castle ...	1032.8	31	S	1	m	1029.9	0	38	+17	SW	1	-	o	0	-	38	20	b	f	f o	0.6		
	Donaghadee ...	1030.7	33	SW	2	bm	1026.1	-3	36	+3	SW	3	-	omr	2	0.2	37	32	2	cf	of omr	2.1		
	Liverpool (Bidston)	1031.8	37	WNW	1	o	1027.6	-1	38	+4	W	2	-	o	1	-	39	34	bcm	o	b c	2.3		
	Holyhead ...	1031.7	42	NW	4	o	1028.0	-2	44	+11	W	4	-	omr	3	1	45	32	bc b bc	c o	bc c or	5.4		
	Pembroke (St. Ann's)	1033.0	38	N	1	bc	1029.6	-1	44	+9	NNW	2	NW	c	1	-	44	34	bc	bc	c	0.6		
	Scilly (St. Mary's)	1031.1	42	NE	3	c	1030.4	-1	44	+1	NNE	2	NE	cm	3	-	44	36	c	bc c	bcm.	4.4		
	Falmouth ...	1031.6	36	NNE	3	bz	1030.5	-1	34	+1	NNE	1	-	c	0	-	44	29	b	b. bc	b.	6.4		
	Jersey (St. Aubin)	1028.1	43	NE	3	b	1027.8	0	43	-2	NE	3	-	oe	3	Trace	46	40	bc op o	bc b	c o	2.7		
	Portland Bill ...	1030.3	37	NNE	4	bc	1029.0	-1	39	+2	NNW	3	-	o	3	-	41	34	bc	b. bc	bc cm	0.0		
	Dungeness ...	1028.4	39	NE	3	cp	1026.1	-2	35	-3	NNW	2	-	o	2	0.3	41	34	bcp	bcp	bc c o	0.0		
Dover ...	1029.6	39	NW	2	bc	1027.2	-2	35	-2	NW	5	-	o	4	2	43	34	cp bc c	c bcp	bcp c o	1.8			
Wick ...	1026.0	36	WSW	2	bc	1024.6	0	38	-2	ESE	3	-	r	2	3	41	36	omd	o. bcm	op om d	0.0			
Nairn ...	1028.4	35	SW	1	c	1024.1	0	36	+1	-	0	-	og	1	2	37	34	dg o	d c	cp	0.0			
Aberdeen ...	1028.3	36	WSW	3	o	1024.9	-1	38	-1	NW	2	-	o	2	1	40	35	omd	od c.	ap	0.0			
Leith ...	1029.6	36	WSW	1	o	1025.9	-1	37	+4	SW	2	-	r	2	0.2	38	32	bc o c	o	ac or	0.0			
Tynemouth ...	1030.0	35	NW	2	om	1026.2	-2	34	+2	W	2	-	cm	3	-	35	31	om	om	cm	0.0			
Spurn Head ...	1030.4	37	N	3	c	1026.0	-2	37	-2	NNW	4	-	cm	4	-	40	35	bc o	o cm	om	2.2			
Yarmouth ...	1030.9	37	NNE	3	c	1025.1	-4	34	-2	NW	3	-	of	2	-	42	34	bc	bc c	cm	2.1			
Clacton-on-Sea ...	1029.8	39	NW	3	bc	1026.0	-2	34	-1	WNW	3	-	o	2	-	42	33	bc	bc c bc	bc c o	3.6			
Nottingham ...	1021.0	35	WSW	1	o	1026.5	0	34	-2	SW	2	SW	o	0	-	38	32	c om	om	om	0.0			
Bath ...	1031.5	30	E	1	b	1028.5	0	34	+6	E	0	N	o	0	-	36	27	bm	m b bc c	b bc c o	0.6			
St. Farnborough ...	1030.5	35	N	1	b	1027.8	-3	31	+1	-	0	-	oz	0	-	41	28	b bc	c bc o b	bc o	4.4			
London (Kew Obs.)	1031.1	36	NNE	1	bm	1027.7	-3	34	+2	WSW	1	-	om	0	-	41	32	bma bm	bm	bm om	3.8			
NORTHERN EUROPE.	Spitsbergen ...	1031.5	-17	-	0	b	1034.0	0	-13	+2	SE	2	0	b	0	-13	-33							
	Vardö ...	1011.8	18	N	4	o	1014.0	+2	-4	-22	NNE	2	-	o	3	0	19	-4						
	Bodö ...	1015.1	21	E	2	b	1020.7	0	14	-7	E	2	-	b	2	0	23	12						
	Christiansund ...	1018.3	30	NW	3	c	1021.5	0	30	-4	NW	4	-	s	4	10	32	30						
	Skudesnaes ..	1023.4	32	NNW	1	o	1021.7	0	37	+7	N	3	-	b	2	0	39	30						
	Færder (X'ania Fjord)	1019.1	28	WSW	2	b	1019.1	+3	25	+2	N	4	-	b	1	-	28	23						
	The Scaw (Skagen)	1020.0	34	NW	2	b	1016.7	0	30	-2	NE	4	-	b	3	-	36	27						
	Blaavands Huk ...	1024.0	37	NNW	3	bc	1016.3	0	32	-5	NE	2	-	s	3	11	37	30						
	Haparanda ...																		1	0.04	26	1.02		
	Hernösand ...																		2	0.08	27	1.06		
Stockholm ...																		3	0.12	28	1.10			
Wisby ...																		4	0.16	29	1.14			
Karlstad ...																		5	0.20	30	1.18			
Petrograd (3 a.m. G.M.T.)																								
FRANCE, &c.	The Helder ...	1027.7	39	N	2	bc	1022.4	-3	41	+2	NW	3	-	o	2	Trace	41	37						
	C. Gris Nez ...	1028.3	39	E	3	o	1026.1	-2	40	+2	NW	3	0	o	2	1	43	38						
	La Hève ...	1026.3	39	NE	2	o	1025.9	0	41	+4	NE	2	0	o	2	-	45	36						
	Ushant ...																							
	Brest (St. Mathieu)	1029.3	43	NE	2	b	1029.5	0	43	-2	N	3	0	o	1	-	50	41						
	Rochefort (Ile d'Aix)	1022.1	41	NE	6	o	1023.3	0	34	-7	NE	6	0	c	0	-	45	32						
	Biarritz ...	1017.7	47	SE	1	o	1020.2	0	41	0	E	2	0	c	3	-	48	39						
	Paris ...	1025.2	36	NNE	4	b	1026.0	0	32	-7	NNE	2	-	c	0	-	48	30						
	Belfort ...	1019.9	30	E	7	m	1021.1	0	26	-2	E	5	0	b	0	-	32	26						
	Lyon ...	1018.6	33	N	4	o	1018.1	0	31	-1	N	2	0	o	0	-	41	31						
Nice ...	1009.7	48	-	0	c	1007.7	0	42	-5	E	2	0	b	2	-	54	41							
Perpignan ...	1012.7	48	NW	2	o	1013.2	+3	43	-3	NW	5	N	bc	0	11	48	52							
Sanguinaire ...	0	50	SW	3	r	0	0	54		E	2	0	r	3	13	54	43							
SOUTHERN EUROPE.	Corunna (7 a.m.)	1021.7	54	NE	5	o	1026.6	+2	50		NE	5	-	o	3	0	54	48						
	Madrid (8 a.m.)																							
	Lisbon (9 a.m.)	1014.9	50	N	4	b	1018.6	+1	46	+1	NNW	3	-	b	4	-	55	46						
	Gibraltar ...	1012.5	49	NW	3	bc	1014.5	0	45		NW	4	0	b	3	-	58	45						
	Rome ...																							
	Malta (8 a.m.)	0	0	0	0	0																		
Azores (Horta, 8 a.m.)	1016.6	0	SE	6	o																			
Madeira (Funchal)	1018.7	61	NE	3	o	1020.2	0	57	0	NE	3	N	bc	3	0	60	57							

## RAINFALL.

Equivalents of Millimetres.  
in Inches.

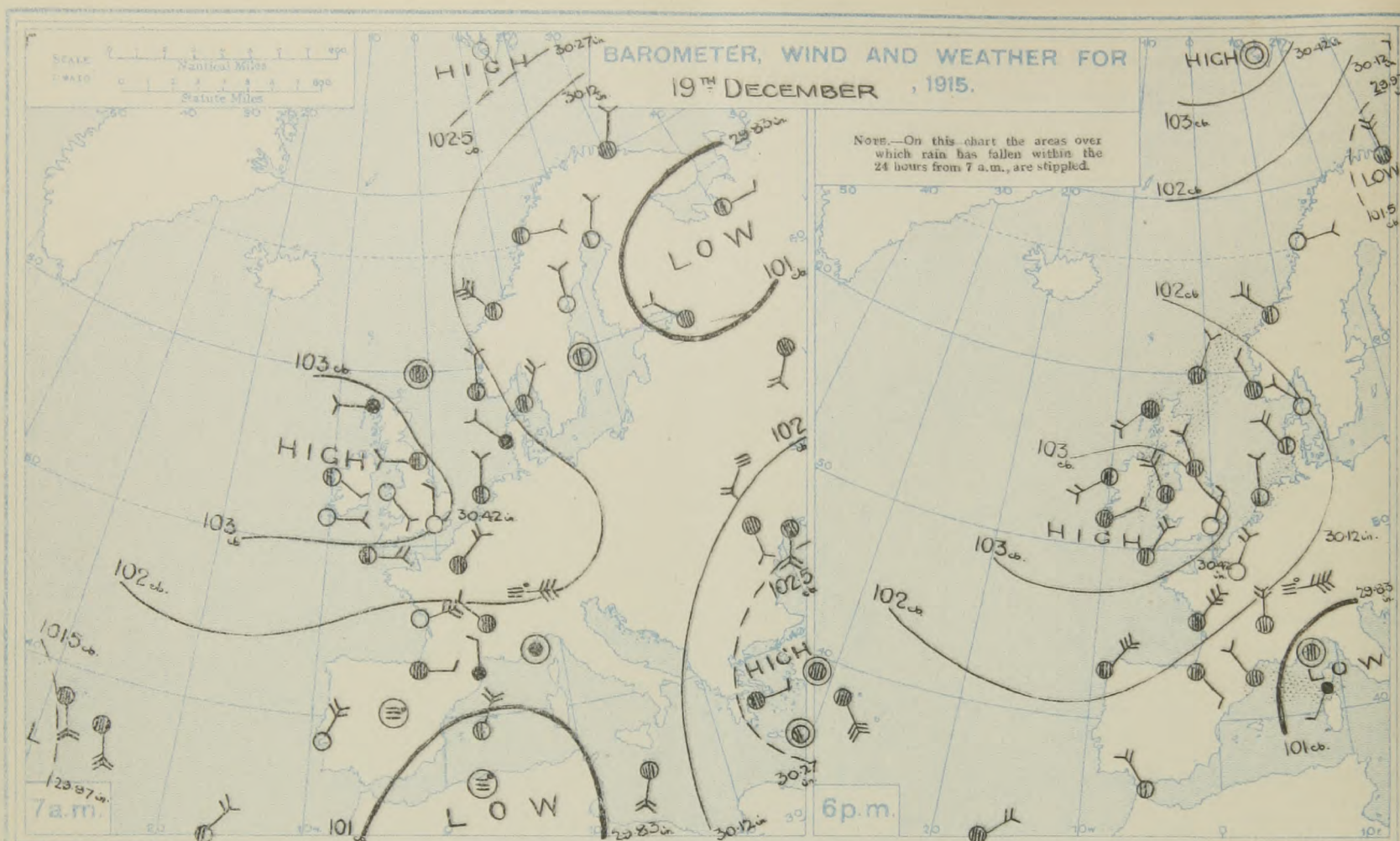
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69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

Plot Balloon Ascent at 7.55 a.m.

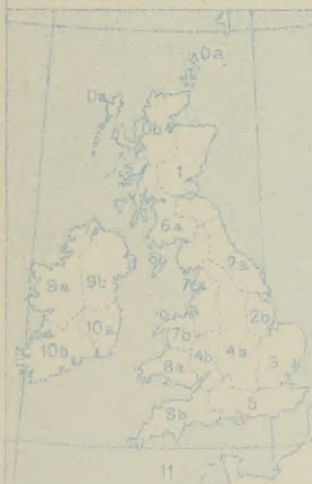
2000 metres NW by N 20 miles per hour.  
500 metres NW by N 20 miles per hour.





**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

- |    |            |  |
|----|------------|--|
| 0  | a }<br>b } | Wind light or moderate between South-East and North-East; some rain or sleet; colder.  |
| 1  | a }<br>b } | Wind becoming variable or Easterly; much cloud, some mist, rain or sleet at times; rather cold.  |
| 2  | a }<br>b } | North-Westerly to Westerly winds, light or moderate, finally light, more variable direction; much cloud, some fog or mist, rain later; rather low temperature. |
| 3  | a }<br>b } | Same as Nos. 1 and 2a.   |
| 4  | a }<br>b } | Westerly to variable winds, light; much cloud, some mist, occasional rain; moderate temperature.   |
| 5  | a }<br>b } | Northerly to Westerly winds, light or moderate; cloudy or overcast, rain later; milder.  |
| 6  | a }<br>b } | Same as No. 7.   |
| 7  | a }<br>b } | Same as No. 8.   |
| 8  | a }<br>b } | Northerly to North-Westerly or Westerly winds, light or moderate, sea slight; cloudy or overcast.  |
| 9  | a }<br>b } |  |
| 10 | a }<br>b } |  |

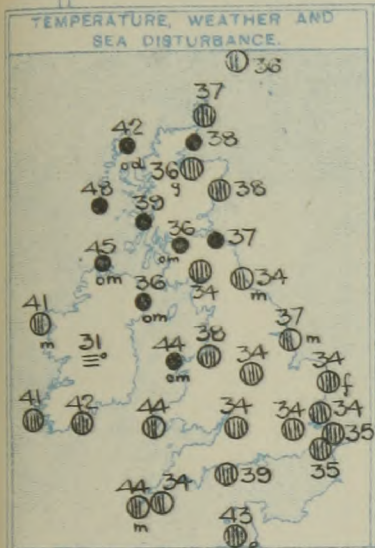
**FURTHER OUTLOOK.**



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

## GENERAL INFERENCE.

It appears probable that the anticyclone will continue to move southward or south-westward.



## EXPLANATION.

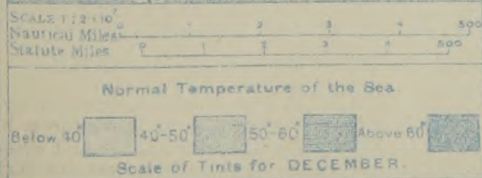
**BAROMETER.**—Isobars are drawn for intervals of five millibars.

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

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





## DAILY WEATHER REPORT.

MONDAY, 20<sup>TH</sup> DECEMBER, 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.		Comp. to E.		Comp. to N.	
	S. Farnborough 13	7h 45m	Falmouth 13h	12h	S. Farnborough 14h	7h 54m	S. Farnborough 16h	7h 47m	Falmouth 17h	13h	S. Farnborough 17h	8h												
Heights in Kilometres.	3				+12	+1	+7	+11																
	2	+8	-12	19K +5	-6	+10	+2	+7	+12	+2	-2													
	1	+5	-16	+10	-12	+15	+10	+7	+10	+1	0													
	0.5	+7	-12	+8	-12	+8	+11	+7	+9	0	0													
	0	+3	-1	+5	-5		+5	0	+5	0	0													

## 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 ...	...	36	27	0	0	0.0	Margate ...	1	43	34			0.1
Banff ...	1	42	33	do	do	0.0	Ramsgate ...	1	41	38	b. cgt	r. bc.	0.7
Carnoustie ...	...						Hastings ...	2	43	35	or b. bc	bc.	1.0
St. Andrews ...	...			*	*		Bexhill-on-Sea ...						
England, N.W.							Eastbourne ...	0.3	43	34	b.	bc. b. bc.	1.5
Harrogate ...	...	36	29	bc. c. 0	0	0.8	Seaford ...						
Skegness ...	...	41	33	bc	bc. 0	2.0	Brighton ...		42	36	bm b. bc	bc.	3.0
England, N.W.							Worthing ...		41	35	b	bc.	1.0
Morecambe ...	...	36	26	bc. c. 0	c. om	0.0	Littlehampton ...		45	32	b	bc.	3.6
Blackpool ...	...	37	26	bx bc. 0	o bcg c	0.0	Bognor ...	0.3	43	34	b	bc. 0	5.0
Southport ...	...						Southsea ...		42	33	b	b	5.0
Midlands.							Bournemouth ...		42	31	b		6.8
Buxton ...	...	36	21	cf. c	cf. c	0.0	England, S.E.						
Leamington Spa ...	...	38	32	b. bc	bc. b	5.0	Weymouth ...		41	34	b	b.	7.0
Malvern ...	...	36	26	b	b	2.0	Torquay ...		45	35	b	b. bc.	6.6
Ross-on-Wye ...	...						Paignton ...						
Wales.							Falmouth ...		44	32	b	b. bc.	6.4
Rhyl ...	...	34	26	b	b	1.0	Penzance ...						
Colwyn Bay ...	...	38	28	bc	bc	1.3	Newquay ...	?	42	?	b	b.	7.0
Llandudno ...	...						Ilfracombe ...		41	35	3. b	b.	5.5
Aberystwyth ...	...	41	31	o. c. b	c. 0	4.0	Weston-super-Mare ...		40	30	b	b.	4.3
Tenby ...	...												
England, E.													
Cromer ...	...												
Lowestoft ...	...												
Felixstowe ...	...	42	33	bc	bc.	4.0							
Walton-on-Naze ...	...	42	33	bc	bc. c.	4.2							
Southend-on-Sea ...	...	42	32	b	bc. b. 0	4.4							

## 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.	Min. on Grass.		Fore- noon.	After- noon.	Night.
Greenwich (Royal Obs.) ...	78	84	Hr.	° F.	° F.	° F.	mm. §	b. bc	bc	bc. o. om
City (Bunhill Row) ...	8	8	0.3	40	33	25		b. bc	bc	bc. om.
Westminster (St. James's Pk.)	83	90	1.4	41	33	29		b. bc	bc	bc. om.
Camden Sq. (Brit. Rainfall)		86	1.6	41	33	29				
Hampstead Reservoir ...	8	88	4.5	39	30	20		b	bc	bc. 0
Richmond Park ...	8	8								
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.)				235	Joules		8.4 Milliwatts.			
S. Kensington (Roof of M.O.)				82	86		2.0.			

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

... 20 <sup>TH</sup> DECEMBER, 1915.		Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	5.4	11.51	3.38	5.4
Greenwich ...	8.5	11.58	3.21	8.5
Wick ...	9.3	12.10	3.17	9.3
Valencia ...	9.49	12.39	3.09	9.49

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.		Night.	WEATHER.		Sun- shine for Yester- day.
		In Screen.	Min. on Grass.		Fore- noon.	After- noon.	
Dublin to 4 p.m.		° F.	° F.	° F.	c. bc	bc. c	*
Darwen to 9 p.m.		36	28	25			
Manchester "							
Birmingham "							
Oxford to 8 p.m.							
Teignmouth to 9 "		42	35	30	b	bc. b	6.3
Plymouth "		42	3		bc. c	bc	5.2
S. Kensington (Museum Grounds to 6 p.m.)		41	34	25	o. c. b.	b. bc. c. bc.	

## NOTES ON YESTERDAY'S WEATHER.

Temperature remained below 40° in various parts of the Kingdom, but the minimum readings of the night were not very low. A considerable amount of sunshine was recorded in the south and south-west; 7 hours at Newquay and Weymouth. Rain fell at several stations in the north.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 355

Tuesday,  
21st December, 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 8 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 ...	1023.4	37	SSE	2	bc	1022.8	-2	36	0	SSE	4	-	om	4	4	37	33	bc	bc	ospd.	Hours.		
Deerness ...	1020.3	36	SE	5	r	1006.8	+	42	+5	SE	1	-	fd	3	?	42	36	o.c	c.or	fr	0.0		
Stornoway ...	1017.1	46	S	3	omd	1010.5	+2	43	+1	NNW	4	-	bc	4	12	47	41	omd	omd	ad r. bc	0.0		
Castlebay (Barra Isd.)	1019.3	48	WSW	4	o	1012.3	0	47	-1	NW	4	-	o	4	4	49	46	r.d.r	d.r.o	or.o	0.0		
Glasgow ...	1021.6	37	NNE	1	omd	1009.8	-4	45	+9	W	2	-	oe	4	13	45	35	omr	or. omd	d.mdp.o	0.0		
Eskdalemuir ...	1021.9	34	-	0	omd	1010.3	-6	43	+9	W	3	-	oe	4	10	43	32	od omr	one. om	ad mr	0.0		
Malin Head ...	1022.1	46	W	4	om	1013.4	-2	47	+2	NW	5	NW	omd	4	2	48	44	om	omp	omd	0.0		
Blacksod Point ...	1023.4	47	WSW	4	ogm	1017.2	-3	47	+6	WSW	6	W	efd	5	3	48	40	og	ogm	efd	0.0		
Valencia ...	1028.8	108	SW	3	o	1022.7	-3	50	+9	SW	4	W	o	4	-	51	40	o	o	o	0.0		
Roche's Point ...	1029.2	46	NW	3	o	1022.7	0	44	+2	NW	2	-	o	2	0.1	47	44	o	o	o	0.0		
Birr Castle ...	1026.6	44	W	1	o	1018.6	0	48	+10	W	2	-	r	2	48	36	o	o	oe.or	0.0			
Donaghadee ...	1022.4	43	W	4	om	1012.0	-5	48	+12	WNW	5	W	cp	3	1	48	36	fr	omp	omp. cp	0.0		
Liverpool (Bldston)	1023.6	43	WSW	4	f	1013.2	-6	45	+7	WSW	6	W	odg	4	3	45	38	od	or	ogp	0.0		
Holyhead ...	1024.8	46	WNW	5	opdm	1015.1	-5	48	+4	WNW	6	-	omdp	5	14	48	43	op omr	omdp.	omdp	0.0		
Pembroke (St. Ann's)	1027.3	47	WNW	3	c	1019.4	-3	48	+4	WSW	5	-	ogp	5	2	49	44	c	c	ogp	0.0		
Scilly (St. Mary's)	1028.8	48	NW	5	og	1023.5	-3	49	+5	WNW	6	W	o	6	-	49	42	c.o	og	om	0.5		
Falmouth ...	1028.1	45	WNW	2	og	1022.6	-4	47	+13	W	2	-	o	4	-	47	33	o	o	o.b.o	0.0		
Jersey (St. Aubin)	1026.1	45	NW	3	c	1022.1	0	48	+5	WNW	3	-	o	2	2	48	41	oe.c	c.bc.c	c.or.o	2.1		
Portland Bill ...	1026.2	43	NNW	2	c	1020.1	-3	45	+6	W	4	-	op	3	1	45	39	bc.c	c	c.op	0.0		
Dungeness ...	1024.2	35	NNW	2	m	1016.8	-7	42	+7	WSW	3	-	or	3	3	39	34	o.c.o	c.cm	om.or	0.0		
Dover ...	1024.6	35	NW	4	bc	1016.7	-4	40	+5	W	4	W	r	3	3	40	34	o	o.c.bc	bcz.or	0.4		
Wick ...	1019.8	39	SE	3	r	1008.0	0	42	+4	SSE	2	-	r	3	9	42	37	dp om	omr	omr	0.0		
Nairn ...	1019.4	36	-	0	gmr	1008.9	0	43	+7	W	1	-	og	1	10	43	34	omd	md	dp.o	0.0		
Aberdeen ...	1021.7	39	SE	4	r	1008.3	-4	37	-1	-	0	-	omd	2	12	40	36	or	or	or. omd	0.0		
Leith ...	1022.1	39	E	1	r	1009.5	-3	39	+2	NNW	1	-	o	1	12	39	36	r	r	mr.f.o	0.0		
Tynemouth ...	1022.4	39	W	2	omr	1009.8	-4	40	+6	-	0	-	omr	3	16	40	35	cm	omr	omr	0.0		
Spurn Head ...	1023.7	40	NNW	3	om	1012.7	-2	40	+3	SW	4	-	or	4	10	40	35	o.cm	om	omr	0.1		
Yarmouth ...	1024.9	38	NNW	2	fd	1013.6	-8	37	+3	SW	3	-	ofr	2	9	39	33	cm.f	fd.	ofd	0.5		
Clacton-on-Sea ...	1023.9	36	NW	2	c	1016.8	-5	40	+6	W	2	-	r	1	9.5	40	33	og cm	om	om. ogr	0.2		
Nottingham ...	1023.8	39	SW	2	r	1014.1	0	44	+10	W	3	W	o	0	6	44	33	o.cm	c. omd	mr	0.0		
Bath ...	1025.9	40	NW	4	m	1018.1	0	46	+12	W	4	SW	o	0	2	46	32	om.cba	m.c.o	od.r	0.9		
Sth Farnborough ...	1025.2	37	-	0	c	1017.1	-4	42	+11	W	2	-	or	0	3	42	31	o.be	b.bc.c	om.or	1.3		
London (Kew Obsy.)	1025.4	38	-	0	m	1017.0	-6	41	+7	WSW	2	-	omr	0	3	41	33	om.o	o.b.c.c.m.	of omr	0.0		
Spitsbergen ...	1019.7	-9	-	0	c	1025.2	-3	-13	0	SSW	8	0	o	0	-	-9	-24	-	-	-	-		
Vardö ...	1022.3	12	NE	5	bc	1024.6	+3	14	+18	ENE	6	-	o	4	0	14	-4	-	-	-	-		
Bodö ...	1020.7	14	E	2	b	1020.6	0	10	-4	E	6	-	b	4	-	16	9	-	-	-	-		
Christiansund ...	1021.9	28	NW	2	s	1016.3	-2	28	-2	NW	3	-	s	4	20	30	27	-	-	-	-		
Skudesnaes ...	1022.1	23	N	2	b	1016.7	-3	28	-9	E	3	-	o	2	-	37	18	-	-	-	-		
Færder (X'ania Fjord)	1021.7	25	N	4	b	1018.9	-2	18	-7	-	0	-	b	0	-	25	18	-	-	-	-		
The Scaw (Skagen)	1020.6	27	NNE	2	bc	1020.0	-1	21	-9	E	1	-	b	1	-	36	19	-	-	-	-		
Blaavands Huk ...	1021.5	25	NE	1	b	1019.5	-2	18	-14	SE	1	-	c	1	Trace	32	12	-	-	-	-		
Haparanda ...																							
Hernösand ...																							
Stockholm ...																							
Wisby ...																							
Karlstad ...																							
Petrograd (5 a.m. G.M.T.)																							
The Helder ...	1021.7	36	NNE	1	bc	1018.0	-5	30	-11	SSE	3	-	o	1	Trace	41	27	-	-	-	-		
C. Gris Nez ...	1024.0	40	N	2	o	1016.3	-5	44	+4	WSW	6	0	r	4	3	41	39	-	-	-	-		
La Hève ...	1023.2	41	NNE	3	c	1019.1	0	41	0	WSW	4	0	r	4	2	45	37	-	-	-	-		
Ushant ...																							
Brest (St. Mathieu)	1029.2	46	N	3	o	1025.6	-2	49	+6	NW	4	0	o	3	-	48	43	-	-	-	-		
Rochefort (Ile d'Aix)	1026.0	41	N	4	o	1025.5	0	38	+4	N	2	0	c	0	-	43	37	-	-	-	-		
Biarritz ...	1024.7	36	E	2	b	1025.9	0	39	-2	-	0	0	o	2	-	43	36	-	-	-	-		
Paris ...	1023.5	37	N	1	c	1021.9	-2	32	0	N	1	-	o	0	-	39	30	-	-	-	-		
Belfort ...	1023.4	28	E	4	o	1023.8	0	26	0	-	0	0	m	0	-	33	26	-	-	-	-		
Lyons ...	1020.0	32	N	6	b	1022.7	0	31	0	-	0	0	o	0	-	37	28	-	-	-	-		
Nice ...	1005.0	46	-	0	o	1011.5	+5	44	+2	-	0	0	b	1	-	54	39	-	-	-	-		
Perpignan ...	1015.4	41	NW	8	b	1020.6	+5	37	-6	N	3	-	b	0	-	43	37	-	-	-	-		
Sanguinaire ...		53	N	3	o			48	-6	E	2	0	o	5	3	57	45	-	-	-	-		
Corunna (7 a.m.)	1027.4	50	NE	5	b	1029.3	0	39	-11	+	0	NE	bc	2	0	50	39	-	-	-	-		
Madrid (8 a.m.)	1018.9	45	NE	2	b	1025.3	+4	30	-7	-	0	NE	m	0	-	46	37	-	-	-	-		
Lisbon (9 a.m.)	1019.8	52	NNW	3	b	1022.7	+1	43	-3	N	3	-	b	0	-	55	43	-	-	-	-		
Gibraltar ...	1018.3	48	W	2	b	1018.9	0	45	0	NW	4	0	b	1	-	57	44	-	-	-	-		
Rome ...																							
Malta (8 a.m.)						1012.3	+1	52	-7	WNW	4	-	c	3	-	63	52	-	-	-	-		
Azores (Horta, 8 a.m.)	1023.9		SE	5	c																		
Madeira (Funchal)																							

### RAINFALL.

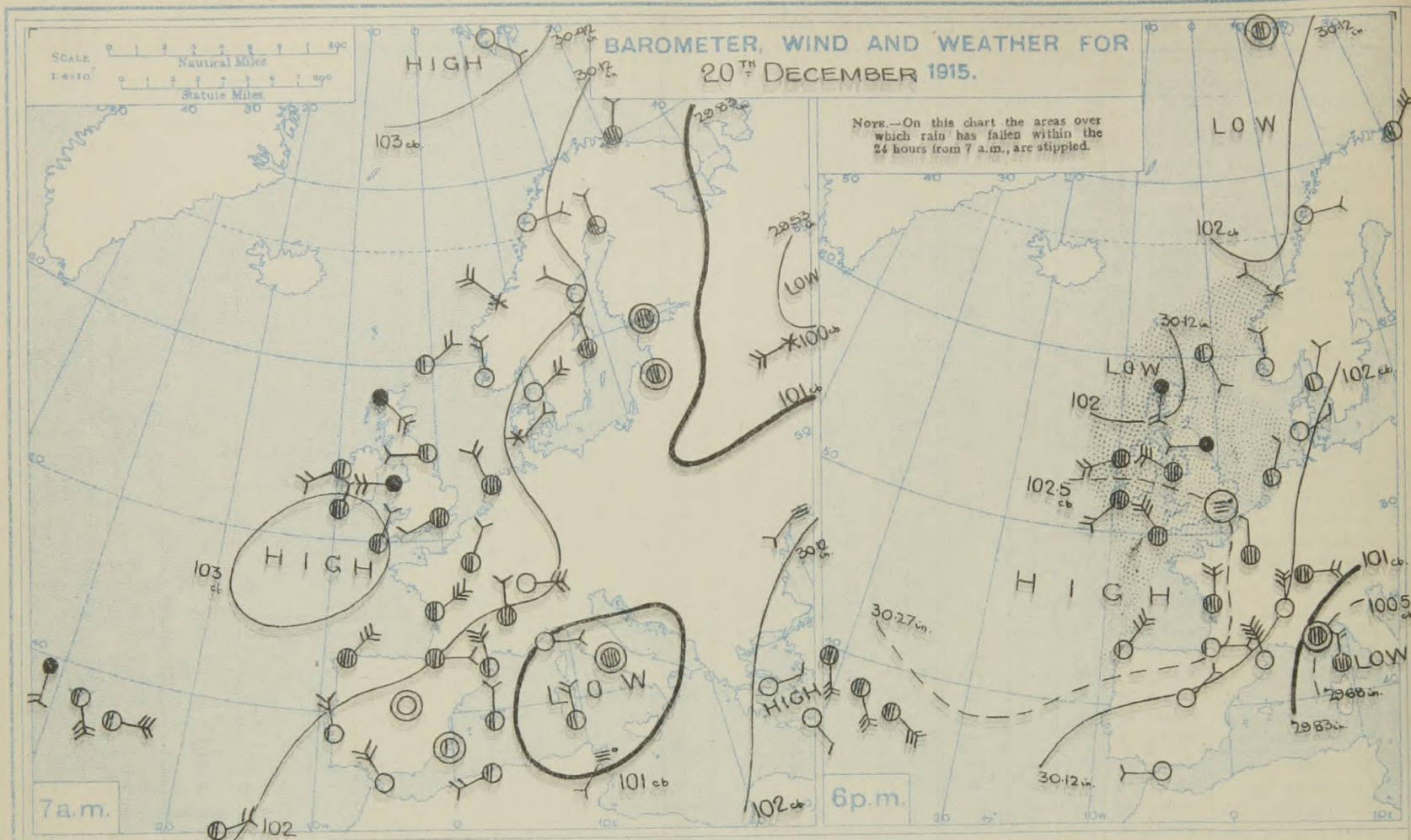
Equivalents of Millimetres.  
in Inches.

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

## RAINFALL. Equivalents of Millimetres. in Inches.

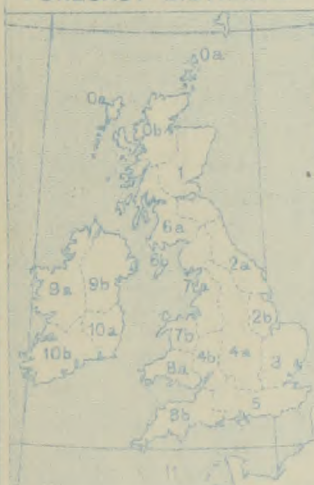
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69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

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

Calms and light variable breezes, becoming North-Westerly to Northerly and freshening somewhat; dull, some rain and mist, fairer later; moderate temperature.

Wind between West and North, fresh at times; dull, rainy, misty, fairer later; moderate temperature.

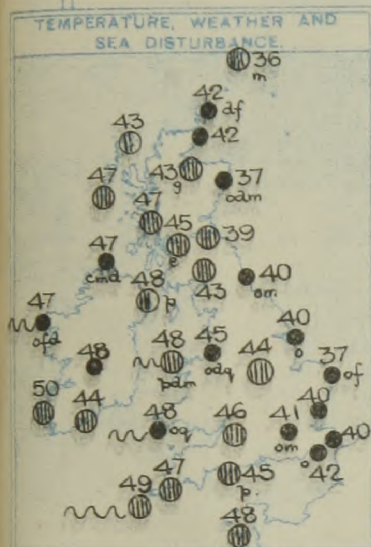
North-Westerly to Westerly and variable breezes, fresh to moderate and light; sea rather rough to moderate; dull to fair; cold.

FURTHER OUTLOOK.



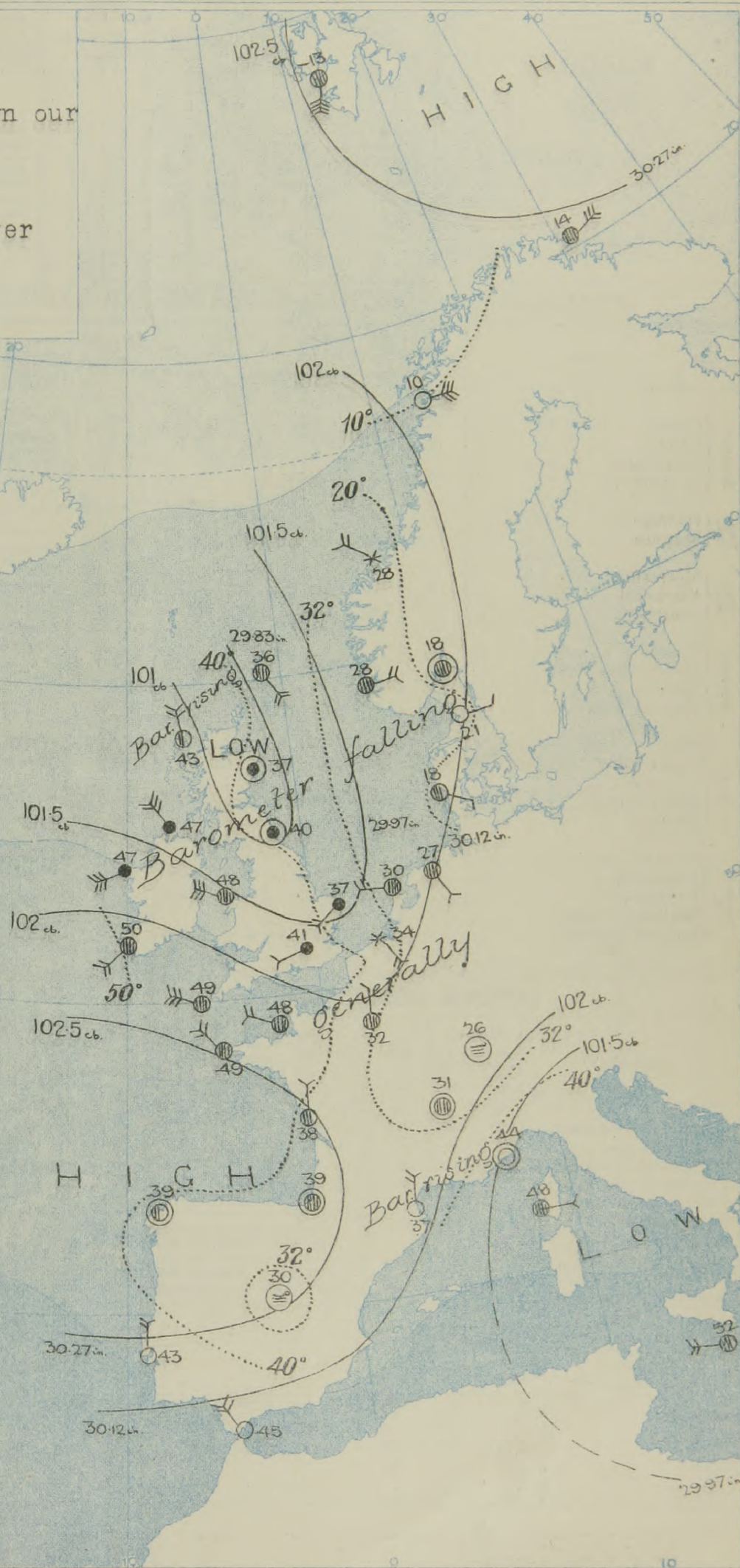
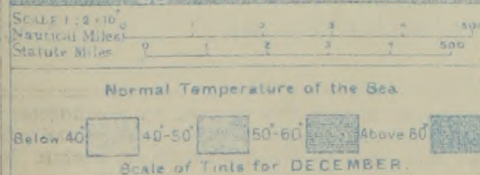
# GENERAL INFERENCE.

A depression moving down our east coast will maintain an unsettled type of conditions over the country generally.



## 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





## DAILY WEATHER REPORT.

Tuesday, 21<sup>st</sup> December 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.								
		* F.							° F.	° F.										
	Haparanda	1016.8	-13	N	2	b	1017.3	0	-11	+6	N	2	1	c	4	-	-	-6	-17.	
	Hernösand	1015.7	1	N	2	b	1020.3	+2	-11	-9	NW	2	1	b	4	-	-	7	-13.	
	Stockholm	1014.6	10	1	0	b	1015.4	+2	19	+5	N	2	1	b	4	-	-	21	9	
	Visby	1016.2	27	NNW	4	c	1013.3	0	25	-5	NNW	4	1	b	4	-	-	22	25	
	Karlskrona	1018.0	3	1	0	c	1018.9	+1	7	6	1	0	1	b	4	-	-	12	-6	
	Madrid	1013.6	43	NNW	1	c	1019.3	+4	37	+3	1	0	1	b	4	-	-	45	34	
	Rome	1010.0	55	SE	1	r	1005.9	+1	50	-	1	0	1	b	4	-	-	61	48	
	Malta	.	.	.	.	.	1012.7	+2	59	-14	SW	2	1	m	1	-	-	66	57	
	Horta.	.	.	.	.	.	1021.0	+1	60	-1	SE	5	1	bc	4	-	-	64	59.	
20 <sup>th</sup> December																				

20<sup>th</sup> December

## 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 ...	8	41	29	r	0	0.0	Margate ...						
Banff ...	3	38	37	0	0	0.0	Ramsgate ...		39	34	0	0	0.0
Carnoustie ...							Hastings ...		40	35	0	0	0.0
St. Andrews ...	3	37	33	*	*	0.0	Bexhill-on-Sea ...						
England, N.E.							Eastbourne ...		41	35	0	0	0.0
Harrogate ...	3	38	30	bc.c	om	0.4	Seaford ...		39	35	0	0	0.0
Skegness ...	-	39	33	gm.c	c.0	0.4	Brighton ...		40	34	om.c	c.0	0.0
England, N.W.							Worthing ...		41	33	c	c	0.2
Morecambe ...							Littlehampton ...		44	32	bc	bc	1.2
Blackpool ...	2	43	33	om.or	or.od	0.0	Bognor ...		41	33	c	bc	1.5
Southport ...	1	42	34	oe	odr	0.0	Southsea ...		41	39	0	bc	2.5
Midlands.							Bournemouth ...		42	29	c.bc	bc.c.0	3.7
Buxton ...		41	26	oc.bc	bc.c.0	1.6	Weymouth ...		44	31	c	0.0m	1.3
Leamington Spa ...		42	32	bc	bc.c.0	2.0	Torquay ...		45	32	om	0	0.0
Malvern ...		42	27	bc	bc	0.3	Paignton ...		45	32	0	0	0.0
Ross-on-Wye ...							Falmouth ...		46	30	0	0	0.0
Wales.							Penzance ...		48	32	0	0	0.0
Rhyl ...	1	44	27	c.bc	cr	0.0	Newquay ...		47	29	0	0	0.0
Colwyn Bay ...	3	44	37	c.bc	cr	0.0	Ilfracombe ...		47	32	0	0	0.0
Llandudno ...		45	34	oc.0	oc.0	0.0	Weston-super-Mare ...		44	27	c	c	0.0
Aberystwyth ...	1	45	37	bc.0	0	0.0							
Tenby ...	-	45	37	bc.0	0	0.0							
England, E.													
Cromer ...		39	33	om.c	c.od	0.0							
Lowestoft ...		39	31	bc	bc.c	1.2							
Felixstowe ...		39	33	om.c.bc	bc.0m	2.3							
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.		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.) ...	77	95	0.0	42	34	30	6	0	0	om. or
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	83	97	0.0	43	35	31	6	om	m. c	om
Camden Sq. (Brit. Rainfall)	78	97	0.0	43	35	33	7	om. 0	o. c.	*
Hampstead (Reservoir) ...	*	100	0.5	41	33	25	6	c. of	om	om
Richmond Park ...	*	*	0.2							
Kew. (See front page.)										
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
				Total.		Average Rate.		Max. Rate.		
				154 Joules		5.5 Milliwatts.		10 Milliwatts.		
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	82	95	0.0							

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

STATIONS.	1915.			Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.			
Yarmouth ...	8.4	11.51	3.49			
Greenwich ...	9.5	11.52	3.49			
Wick ...	9.3	12.11	3.17			
Valencia ...	9.50	12.33	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 rose to between 45° and 49° in many localities. Rain fell generally, mostly in the night, 16 mm. at Tynemouth. Bournemouth had 3.7 hours of sunshine, but as a rule there was little or none.

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## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 356

Wednesday,  
22nd December, 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.	
Lerwick ...	1011.3	38	SSE	4	c	1010.5	-1	38	+2	SE	4	SE	bc	4	1	38	35	m od	om	d.c.	Hours.
Deerness ...	1007.8	42	ESE	3	oe	1006.4	+	42	0	SE	4	-	r	4	4	43	40	fd. o.c	c.oe	or	0.0
Stornoway ...	1010.4	40	NW	3	c	1002.8	-3	43	0	SSE	6	-	org	5	2	44	38	bep	bc.c.	c.odyp	1.7
Castlebay (Barra Isd.)	1010.6	46	NE	1	c	1002.1	-3	48	+1	SSW	3	-	d	3	5	49	41	d.c.b	bc.	c.ord	3.7
Glasgow ...	1011.4	37	-	0	b	1006.9	-3	36	-9	E	1	-	omd	+	2	46	34	o.c	e.bc.b	bc.our	0.5
Eskdalemuir ...	1011.5	37	W	1	b	1008.3	-2	32	-11	-	0	-	omr	+	1	45	27	e.o	o.b.	b.bc.c.o	0.0
Malin Head ...	1011.5	45	SW	2	om	1004.8	-3	47	0	SW	3	-	om	3	2	50	44	bc.m	om	omd	0.2
Blacksod Point ...	1013.1	49	WSW	4	omp	1002.8	-6	49	+2	SE	5	W	ofd	4	4	49	45	omd	omp	ofd	0
Valencia ...	1018.5	51	SW	4	o	1008.3	-7	52	+2	S	4	-	o	4	-	53	50	o	o	o	0.0
Roche's Point ...	1019.2	48	WNW	2	c	1012.1	+	51	+7	SW	4	-	o	4	0.2	51	44	o	o.c	om	0
Birr Castle ...	1013.9	49	W	1	r	1008.5	+	49	+1	S	1	-	c	+	2	50	47	or	or.od	or.c	0.0
Donaghadee ...	1012.3	45	NW	3	cm	1006.0	-5	49	+1	SW	4	-	omg/p	3	2	49	43	cm	cm.	of.omp	0
Liverpool (Bidston)	1012.5	44	WSW	3	o	1008.7	-3	47	+2	WSW	4	W	mgd	3	5	48	41	agd	o	or	0.0
Holyhead ...	1013.5	48	WNW	4	o	1009.0	-2	49	+1	W	4	-	one	3	9	50	47	opd.our	o.c.o	o.our	0.0
Pembroke (St. Ann's)	1015.9	44	W	4	ogp	1012.8	-3	49	+1	WSW	4	-	omg/p	4	5	50	47	ogp	ogp	omg/p	0.0
Scilly (St. Mary's)	1019.7	50	WNW	6	om	1015.6	-5	51	+2	W	6	W	om	5	-	51	48	om	om	m	0.0
Falmouth ...	1018.4	49	WNW	6	cdg	1015.3	-4	50	+3	W	2	-	o	4	-	50	46	o.c	ed.cq	q.cq	0.4
Jersey (St. Aubin)	1017.5	50	W	5	o	1016.2	+	50	+2	W	4	-	o	4	1	51	47	op	op.o	op.o	0.0
Portland Bill ...	1014.8	49	WNW	5	o	1014.2	-1	49	+4	W	3	W	c	4	2	49	43	or	o	o.c	0
Dungeness ...	1010.0	46	W	3	om	1011.7	0	41	-1	WNW	1	-	o	1	3	46	36	r.c.o	c.o	c.o	0
Dover ...	1010.1	47	WNW	4	o	1012.7	0	41	+1	W	2	-	c	2	2	47	38	op.r.c	op.o	o.c	0.0
Wick ...	1007.9	42	WNW	3	c	1006.4	-2	43	+1	SE	2	-	o	3	1	44	39	omr.bc	bc.our	cpd.our	0
Nairn ...	1010.2	41	WNW	1	cg	1006.3	+	37	-6	-	0	-	og	1	0.3	44	35	c.bc	cp.	c.bc.c	0.4
Aberdeen ...	1008.7	39	WNW	2	b	1007.1	-1	36	-1	WNW	1	NW	o	2	4	43	36	omr.bc	bc.b.	b.bc.o	2.5
Leith ...	1010.5	39	NW	1	bc	1008.2	-2	37	-2	E	1	-	r	1	1	44	35	om.f	c.bc.b	c.or	0
Tynemouth ...	1009.5	43	NNW	2	c	1008.1	-2	39	-1	W	2	-	of	3	1	46	36	cmg	omr.	of	0
Spurn Head ...	1009.7	44	NW	4	r	1009.7	0	39	-1	NW	3	-	cm	4	5	44	37	omr	omr	of	0.0
Yarmouth ...	1007.3	45	NW	2	r	1010.0	0	36	-1	W	2	-	bc	2	6	45	36	of	of	fr.bc	0.0
Clacton-on-Sea ...	1009.4	47	W	3	o	1011.2	0	39	-1	WNW	2	-	o	1	1	47	37	ogmr	ogm	og.c.og	0.0
Nottingham ...	1010.6	47	NW	4	o	1009.8	+	42	-2	SW	1	SW	r	+	3	49	38	om	o	o	0.0
Bath ...	1010.9	48	W	3	o	1012.9	+	49	+3	W	4	W	o	+	7	49	45	or	r.o	o.cr	0.0
Sth Farnborough ...	1011.7	47	W	2	o	1011.4	-1	46	+4	W	2	-	or	+	1	48	40	r.o	o.c	b.or	0.0
London (Kew Obsy.)	1011.6	47	WNW	3	om	1011.7	-1	42	+1	-	0	-	omd	+	2	48	39	omr.our	o.our	omr.our	0.0
Spitsbergen ...	1018.0	23	S	4	s	1013.7	-3	28	+44	SSW	5	+	3	+	+	23	-13				
Vardö ...	1026.7	18	ENE	3	bc	1031.1	0	9	+5	ENE	1	-	S	2	+	18	7				
Bodö ...	1027.1	5	E	4	b	1029.9	0	1	-9	E	4	-	b	2	-	10	0				
Christiansund ...	1022.1	28	NW	3	s	1015.3	0	12	-16	E	4	-	L	4	3	28	12				
Skudesnaes ...	1013.9	28	ESE	4	c	1011.7	-2	25	-3	-	0	-	o	1	-	30	21				
Færder (X'ania Fjord)	1016.6	12	NE	5	m	1018.9	+2	9	-9	NE	6	-	3	2	+	18	9				
The Scaw (Skagen)	1015.9	21	WSW	3	c	1014.6	+1	19	-2	E	4	-	S	4	3	25	18				
Blaavands Huk ...	1015.4	23	SSE	2	c	1013.2	-1	27	+9	SSW	3	-	c	3	-	27	16				
Haparanda ...	1026.1	-17	N	2	b	1031.0	+3	-23	-10	N	2	-	b	+	-	-11	-23				
Hernösand ...	1022.1	-9	N	2	b	1026.1	+2	-11	-11	NW	4	-	b	+	2	1	-13				
Stockholm ...	1015.1	5	WNW	2	s	1016.0	+2	-4	-13	NNW	4	-	b	+	1	9	-4				
Wisby ...	1014.3	16	E	2	b	1014.4	-5	16	-7	N	4	-	o	6	5	25	14				
Karlstad ...	1017.9	-2	-	0	b	1022.0	+3	-6	0	N	2	-	b	+	Trace	5	-9				
Petrograd (5 a.m. G.M.T.)																					
The Helder ...	1009.3	32	ESE	3	o	1011.1	0	28	-2	ESE	1	-	b	1	2	34	28				
C. Gris Nez ...	1008.8	46	W	6	o	1011.4	0	43	-1	WNW	2	+	o	2	4	46	43				
La Hève ...	1015.1	49	WNW	5	r	1014.4	+	47	+6	NW	4	+	r	5	10	48	45				
Ushant ...																					
Brest (St. Mathieu)	1022.6	50	WNW	4	o	1019.7	-2	50	+1	W	4	+	o	3	-	50	48				
Rochefort (Ile d'Aix)	1023.0	48	WSW	3	o	1020.7	-2	48	+10	WNW	5	+	o	+	Trace	48	37				
Biarritz ...	1024.8	44	SW	1	f	1023.4	0	50	+11	NW	3	+	o	3	4	46	41				
Paris ...	1013.7	45	W	3	o	1013.9	+1	45	+13	WNW	2	-	r	+	9	46	32				
Belfort ...	1019.7	32	WSW	6	s	1014.0	+	34	+8	W	6	+	r	+	4	31	28				
Lyons ...	1022.4	35	N	1	o	1018.1	+	34	+3	-	0	+	f	+	3	35	31				
Nice ...																					
Perpignan ...	1020.0	45	NW	5	c	1019.9	0	48	+11	NW	5	N	o	+	-	46	41				
Sanguinaire ...		50	E	2	m		+	46	-2	E	2	+	o	5	-	55	45				
Corunna (7 a.m.)	1028.7	52	NW	4	b	1027.4	-1	41	+2	S	1	-	o	1	-	52	37				
Madrid (8 a.m.)	1024.2	41	W	1	b	1028.0	+1	32	+2	-	0	-	m	+	-	43	30				
Lisbon (9 a.m.)	1024.4	50	N	3	b	1026.6	0	43	0	-	0	-	b	2	-	52	43				
Gibraltar ...	1023.0	48	NW	4	b	1025.0	+	46	+1	NW	5	+	b	3	-	56	44				
Rome ...																					
Malta (8 a.m.)																					
Azores (Horta, 8 a.m.)	1029.3	+	S	5	m	1015.5	+1	61	+2	SSW	5	+	o	4	-	64	59				
Madeira (Funchal)																					

### 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.

## RAINFALL.

Equivalents of Millimetres.  
in Inches.

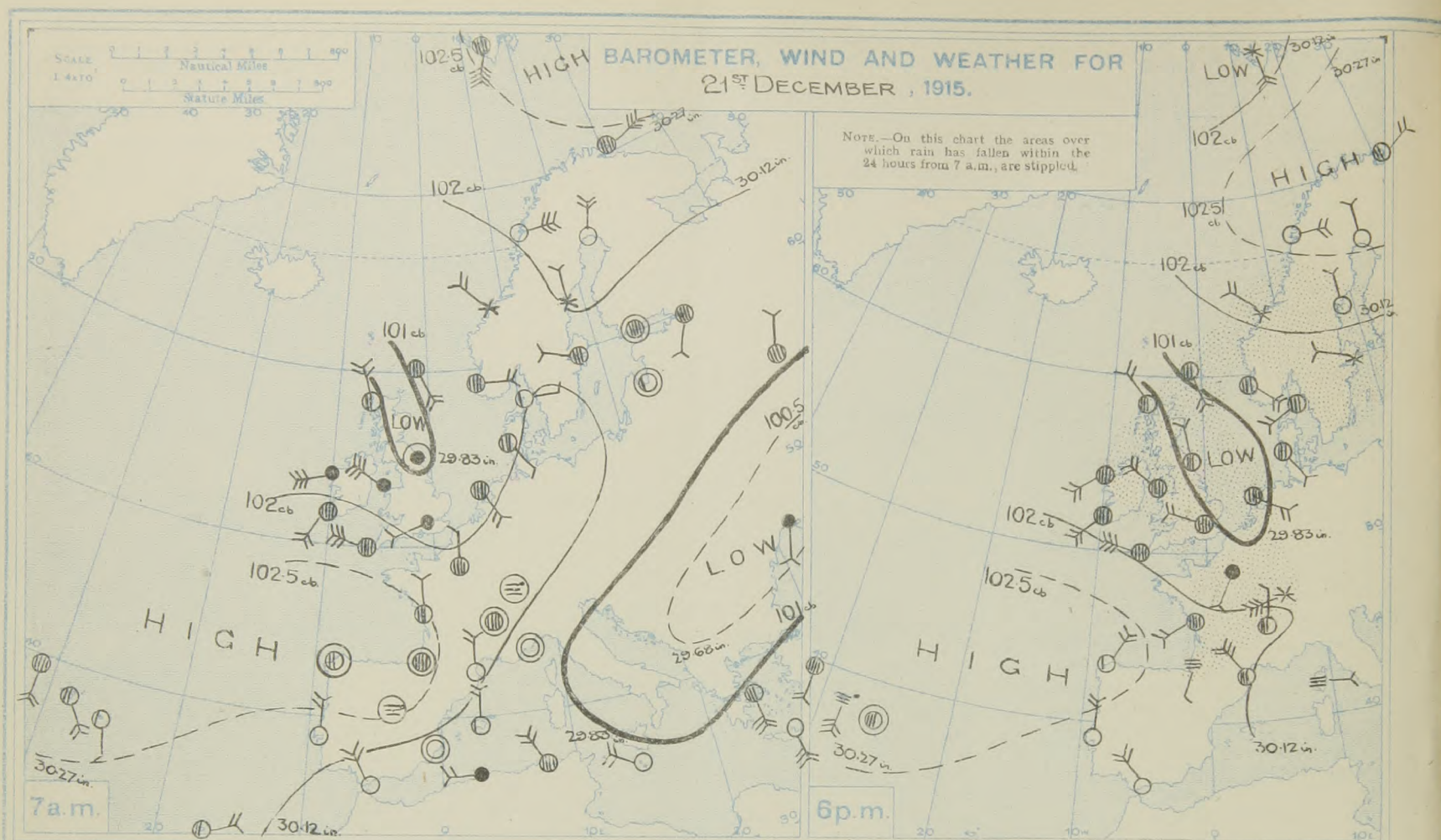
mm.	Inches.	mm.	Inches.
1	0.04	26	1.02
2	0.08	27	1.06
3	0.12	28	1.10
4	0.16	29	1.14
5	0.20	30	1.18
6	0.24	31	1.22
7	0.28	32	1.26
8	0.32	33	1.30
9	0.35	34	1.34
10	0.39	35	1.38
11	0.43	36	1.42
12	0.47	37	1.46
13	0.51	38	1.50
14	0.55	39	1.54
15	0.59	40	1.58
16	0.63	41	1.61
17	0.67	42	1.65
18	0.71	43	1.69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

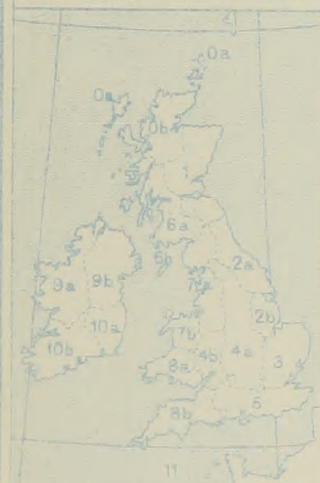
‡ The barometric change is expressed in half-millibars.





### FORECASTS FOR THE 24 HOURS NOON 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 } South-Easterly wind moderate to strong and  
b } squally, veering South-Westerly later; dull, some rain and  
mist; moderate temperature.

1 {  
2 { a } Light variable to freshening South-Westerly  
b } breezes; dull, some rain and mist; mild.  
3 {  
4 { a }  
b }  
5 {

6 { a }  
b } Wind between South and West strong and squally  
7 { at times, dull, some rain and mist; mild.  
8 { a }  
b }  
9 { a }  
b }  
10 { a }  
b }

11 { Westerly to South-Westerly wind, fresh to strong  
at times, dull, some rain, mist or fog; moderate temperature.

#### FURTHER OUTLOOK.

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

W. NAPIER SHAW, Director

Millib

1050

1040

1030

1020

1010

1000

990

980

970

960

950

940

930

920

910

900

890

880

870

860

850

840

830

820

810

800

790

780

770

760

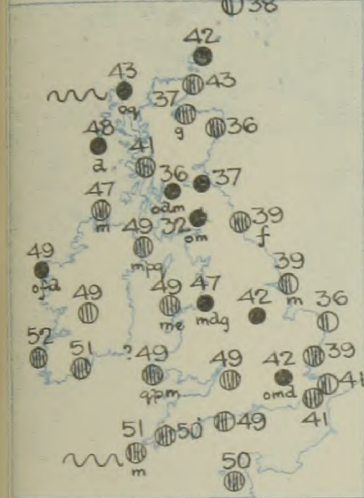


# SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 22<sup>ND</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

A new depression from the Atlantic will maintain the unsettled type of 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.

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

Isotherms shown by dotted lines.

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

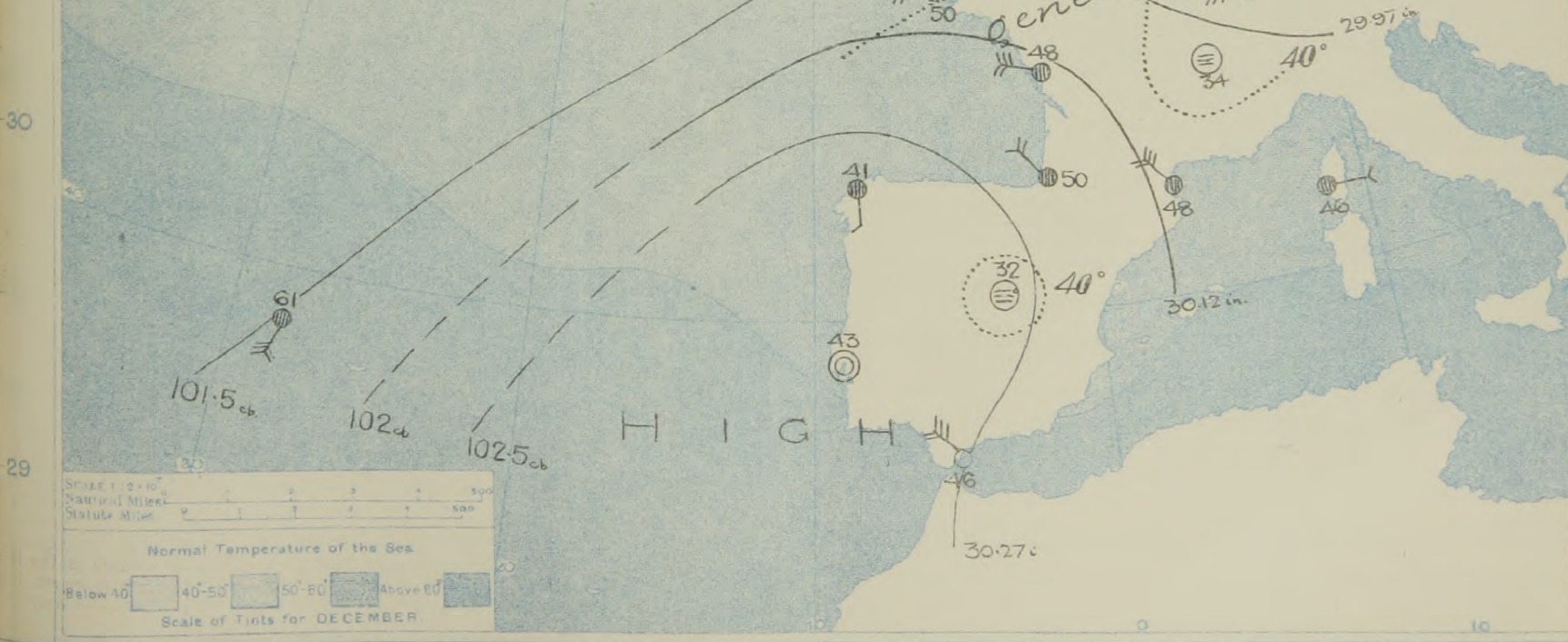
○ clear sky. ○ sky 1/2 cloudy. ○ sky 3/4 cloudy.

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

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

⚡, thunderstorm.

**SEA DISTURBANCE.**—Rough. High.





## DAILY WEATHER REPORT.

Wednesday, 22<sup>nd</sup> Dec. 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.	° F.													
Haparanda	1015.4	-6	N	2	b	1021.6	+1	-13	-2	NNE	4	-	b	4	-	0	-13			
Hernösand	1020.8	0	-	0	bc	1020.2	+1	0	+11	N	2	-	s	4	-	0	-11			
Stockholm	1017.3	14	NW	2	o	1016.9	0	9	-10	WNW	2	-	o	4	-	21	7			
Wigby	1014.7	23	NNE	4	s	1015.0	0	20	-2	N.	6	-	o	4	-	10	27			
Karlstad	1020.3	10	-	0	s	1018.4	-3	-6	-13	-	0	-	bc	4	-	14	18			
Horta	.	.	.	.	.	1027.3	0	59	-1	SE	14	4	bc	3	-	64	59			
Funchal.	1020.3	61	ENE	3	bc	1022.9	0	57	0	ENE	3	-	bc	3	-	64	57			

21<sup>st</sup> December

21<sup>st</sup> December

## 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	...	...	8	47	38	bc	bc	3.8	England, S.E.	Tunbridge Wells	...	...	5	46	36	o	om	0.0
	Banff	...	...	22	44	35	h.bc	bc.c	0.9		Margate	...	...	6	45	35	r	d.o	0.0
	Carnoustie	...	...				*	*			Ramsgate	...	...	5	46	35	bc	o	0.0
	St. Andrews	...	...								Hastings	...	...	2	47	36	bc.o	o	0.0
Eng. N.E.	Harrogate	...	...	7	47	36	o.c	o	0.0		Bexhill-on-Sea	...	...						
	Skegness	...	...	9	47	36	ro	ogp	0.0		Eastbourne	...	...	4	47	35	bc	o	0.0
Eng. N.W.	Morecambe	...	...	-	45	36	o	o.bc	0.0		Seaford	...	...	4	47	35	bc	o	0.0
	Blackpool	...	...	5	46	42	o	o	0.1		Worthing	...	...	4	47	?	bc	bc.o	0.0
	Southport	...	...	6	46	37	o.c.c	c.o.c	0.1		Littlehampton	...	...	6	47	35	bc	bc	0.0
Midlands.	Buxton	...	...								England, S.W.	Bognor	...	...	4	48	35	bc	bc
	Leamington Spa	...	...	2	49	32	o.c	o.c	0.0	Southsea		...	...	4	48	35	bc	bc	0.0
	Malvern	...	...	3	49	41	c	c	0.0	Bournemouth		...	...						
	Ross-on-Wye	...	...	3	50	40	o	o	0.0	Weymouth		...	...	2	49	36	op	p.o	0.0
Wales.	Rhyl	...	...	3	48	39			0.0	Torquay		...	...	2	50	42	op	c.o	0.0
	Colwyn Bay	...	...	5	48	44	c	bc	0.0	Paignton		...	...						
	Llandudno	...	...							Falmouth		...	...						
	Aberystwyth	...	...	14	48	42	ro	bc	0.0	Penzance		...	...						
England, E.	Tenby	...	...	8	49	42	bc bc	r	0.0	Newquay		...	...	?	52	44	o.c	c	0.0
	Cromer	...	...							Ilfracombe		...	...						
	Lowestoft	...	...	14	45	33	bc	bc	0.0	Weston-super-Mare	...	...	2	47	39	bc	ro	0.0	
	Felixstowe	...	...	9	46	34	bc	bc	0.0										
	Walton-on-Naze	...	...																
	Southend-on-Sea	...	...	4	47	35	om	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.		Fore- noon.	After- noon.	Night.
				Max.	Min.					
24 HOURS ENDED 9 A.M. TO-DAY.										
Greenwich (Royal Obs.) ...	% 87	% 98	Hr. 0.0	* F. 48	* F. 37	* F. 31	mm. § 2.	o	om	o. bc. o. or.
City (Bunhill Row) ...	% *	% *		% *	% *	% *	% *	% *	% *	% *
Westminster (St. James's Pk.)	90	99	0.0	49	36	30	2.	o	o. c	b. affd
Camden Sq. (Brit. Rainfall)	85	98	0.0	48	37	31	1	om. u	o	%
Hampstead (Reservoir) ...	% *	98	0.0	46	36	22	2	sc	om	om.
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.)				79 Joules		2.6 Milliwatts.		6 Milliwatts.		
S. Kensington (Roof of M.O.)	85	97	0.0							

## Additional Observations for Yesterday.

STATIONS.	RAIN- FALL.	TEMPERATURE.		Night Min. on Grass.	Night.	Fore- noon.	After- noon.	Sun- shine for Yester- day.
		In Screen.	Min.					
		Max.	Min.					
Dublin to 4 p.m.								
Darwen to 9 p.m.								
Manchester "								
Birmingham "								
Oxford to 8 p.m.								
Teignmouth to 9 "								
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	5	49	32	30	o.c	om	om	

## NOTES ON YESTERDAY'S WEATHER.

Mildness and dampness were general, but while rain fell nearly everywhere, it was nowhere heavy. As a rule there was no 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 id. at M.O. and at the bookstalls at certain Railway Termini in London.



## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 357.

Thursday,  
23rd December, 1915.

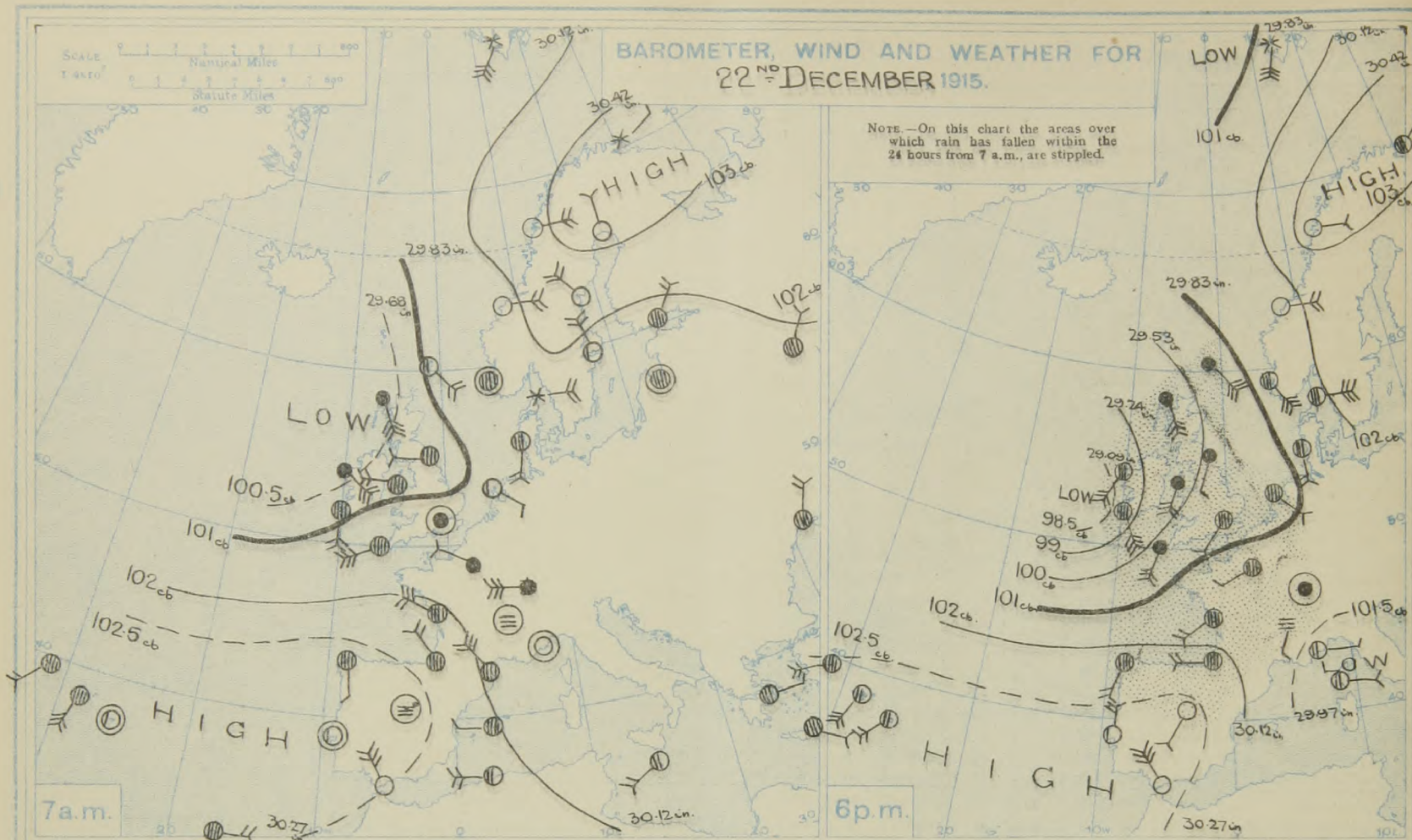
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	Barometer.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 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	1004.3	30	SE	6	orgy	998.1	-1	32	-6	SSE	9	-	2	8	3	40	30	c.og	ogpp	ops	Hours.	
Deerness	997.9	42	SE	5	og	988.1	+	37	-5	ESE	8	-	og	7	8	43	37	r.o	og	org	0.0	
Stornoway	992.3	47	SSE	5	og	980.8	-6	44	+1	SE	5	-	og	5	9	47	40	od.gr	og	c.og/p	0.0	
Castlebay(Barralsd.)																						
Glasgow	997.3	38	ENE	2	mr	979.7	-6	42	+6	SE	3	-	o	+	5	46	35	ond	md.mr.	ondsq	0.0	
Eskdalemuir	998.9	42	S	2	ond	981.6	-6	40	+8	SSE	6	-	od	+	13	45	32	od.ome	ofe.od.	ond.or	0.0	
Malin Head	994.4	47	SW	3	og	973.6	-3	41	-6	SE	3	W	og	4	3	50	41	cmr.	og	cp	0.0	
Blackod Point	987.1	47	SSW	5	emp	980.6	0	45	-4	WNW	8	NW	ogp	5	8	50	39	omr	bc	cmgr	0.0	
Valencia	985.6	52	SSE	6	o	988.3	-2	47	-5	WSW	7	W	cp	6	16	52	44	or.p	op.r	or.o.cp	0.1	
Roche's Point	994.2	50	SSW	6	mr	990.5	+	46	-5	W	4	-	bc	5	12	51	42	om.fol.	mr.	r.c.bc	+	
Birr Castle	994.4	49	SE	1	o	984.2	+	42	-7	SW	3	-	c	+	7	50	41	or	or.o	cq.p	0.0	
Donaghadee	996.4	47	SSW	3	ondp	976.7	+2	41	-8	SW	5	-	omgp	4	1	47	41	omp	ofdp.	ogm.p	+	
Liverpool (Bidston)	1000.9	47	SSE	2	r	986.5	-6	45	-2	SSW	5	S	b	4	2	50	43	od	c.op	og	0.1	
Holyhead	998.6	49	SSW	5	ond	984.9	0	46	-3	SW	6	SW	og	6	6	50	45	od.o.c.o	c.ofr	ofr.c.o	0.0	
Pembroke(St. Ann's)	1000.7	50	SSW	6	odmq	980.2	-2	48	-1	WSW	7	W	ogp	6	11	50	44	fg.md	md	cq.p	0.0	
Scilly (St. Mary's)	1003.2	51	SSW	5	omr	996.6	-2	49	-2	W	7	W	cmg	7	7	52	46	omr	ond.	omp.cq	0.0	
Falmouth	1005.0	50	SSW	7	ogp	996.8	-2	47	-3	WSW	5	-	bc	+	13	52	45	o	ogr.cq	rg.og	0.2	
Jersey (St. Aubin)	1012.1	50	WSW	3	o	1000.8	+	49	-1	W	5	W	c	3	9	52	46	a.c.og	og.c.o	ogr.bc	0.2	
Portland Bill	1008.1	49	SW	3	c	996.9	0	47	-2	WSW	6	SW	bc	5	4	50	45	c	c	o.cr.bc	+	
Dungeness	1008.1	48	SW	4	o	996.5	-4	46	+5	SW	5	SW	c	5	5	48	45	epd.	o.c.o	og	+	
Dover	1008.2	47	WSW	4	o	997.2	-4	46	+5	WSW	5	W	bc	4	6	48	40	c.od.r.o	op.o	or.o.c	0.0	
Wick	997.9	43	SE	6	r	985.7	-5	41	-2	SE	6	-	r	5	7	44	40	o.cm	c.omr	ondg	+	
Nairn	995.3	39	-	0	mr	981.7	+	44	+7	SSW	2	-	og	2	4	44	35	m.o	c.ond.	d.c.bc	0.0	
Aberdeen	999.2	42	SSE	3	omdp	984.6	-4	45	+9	SE	6	-	r	4	16	45	35	of.om	ond.	org	0.0	
Leith	997.9	41	E	1	r	981.1	-4	44	+7	S	1	-	o	1	3	46	36	rg.e.r	r	r.o.e.o	+	
Tynemouth	1000.1	43	SSW	1	ofr	986.2	-6	45	+6	SW	4	-	ogm	4	5	46	38	fr	ofr	ogm	+	
Spurn Head	1003.9	42	S	3	fe	990.7	-2	45	+6	SW	4	-	bc	4	4	45	36	cm.f	fe	for.cm	0.0	
Yarmouth	1005.0	44	WSW	2	f	994.7	-4	44	+8	SW	3	-	cp.	4	3	44	36	ofr	ofd.	ofd.	0.0	
Clacton-on-Sea	1006.6	45	W	2	o	995.3	-1	44	+5	SW	3	-	c	2	6	45	38	ogr	ogmr	ogmr.c	0.0	
Nottingham	1003.7	48	SW	2	o	991.3	+	42	0	SW	3	SW	bc	+	1	49	41	md.o	om	s.c	0.0	
Bath	1006.1	51	W	+	o	994.8	+	45	-4	SW	4	W	bc	+	5	54	43	o.c	bc.c.o	org.bc	0.4	
Sth Farnborough	1006.9	48	WSW	3	o	996.0	0	41	-5	WSW	4	W	b	+	4	50	40	r.o	o.c.o	o.c.or.b	0.0	
London (Kew Obsy.)	1007.0	48	SW	2	o	996.1	-1	43	+1	SW	4	-	b	+	4	50	42	ond.o	o.c.o	o.or.be.b	0.0	
NORTHERN EUROPE.																						
Spitsbergen	1010.3	28	SSW	6	S	1004.7	-3	30	+2	WSW	8	+	S	+	+	28	25	GALES.				
Vardö	1030.4	23	NNE	1	C	1028.0	-3	19	0	-	0	-	b	3	+	22	12	Duration and Extreme Force in British Islands.				
Bodö	1031.0	7	E	2	b	1028.6	-2	10	+9	E	4	-	b	2	-	7	-2					
Christiansund	1014.4	10	E	4	b	1012.2	0	14	+2	NNE	7	-	b	5	-	14	10					
Skudesnaes	1011.4	21	SE	6	C	1007.8	-3	16	-9	ESE	7	-	b	5	-	27	16					
Færder(X'ianlaFjord)	1022.7	0	NNE	6	f	1015.6	-3	1	-8	NE	6	+	f	2	Trace	9	0					
The Scaw (Skagen)	1018.4	10	E	6	C	1015.1	0	9	-10	E	6	-	o	6	-	19	7					
Blaavands Huk	1010.4	30	S	3	C	1004.2	-3	23	-4	ESE	5	-	o	4	-	30	18					
Haparanda																		Lerwick				
Hernösand																		23rd 1am - 7am SSE 9				
Stockholm																		Ex SSE force 10.				
Wisby																		Deerness				
Karlstad																		23rd 7am ESE 8.				
Petrograd																		Blackod Point				
																		23rd 1am - 7am WNW 8.				
																		Valencia				
																		22nd 8pm - 11pm. WSW 8				
																		Ex. WSW 9 @ 8pm.				
FRANCE, &c.																						
The Helder	1007.5	30	SE	2	o	996.0	-3	43	+15	SSW	4	-	o	3	6	43	28					
C. Gris Nez	1007.9	49	SW	4	o	997.3	-4	46	+3	SW	6	+	o	5	9	48	45					
La Hève	1009.6	47	NW	4	f	1001.1	+	45	-2	SW	5	+	o	5	5	55	43					
Ushant																						
Brest (St. Mathieu)	1011.0	51	SW	5	o	1004.0	+1	50	0	W	6	+	c	5	2	52	48					
Roche fort(ile d'Aix)	1012.1	48	SW	3	o	1006.4	-3	50	+2	WSW	6	+	o	+	14	50	46					
Biarritz	1021.0	49	W	3	o	1013.0	-3	48	-2	SSW	2	+	r	2	3	52	45					
Paris	1012.8	46	SW	2	o	1003.8	-4	43	-2	SSW	3	-	r	+	9	48	43					
Belfort	1015.9	36	-	0	r	1010.6	+	34	+5	WSW	6	+	o	+	11	39	36					
Lyons	1018.6	39	-	0	f	1012.3	+	36	+2	SSW	1	+	o	+	1	40	35					
Nice	1013.7	41	E	1	bc	1013.6	0	39	0	E	2	+	bc	2	-	48	37					
Perpignan																						
Sanguinaire		50	E	2	bc			47	+1	E	4	+	bc	5	-	55	43					
SOUTHERN EUROPE.																						
Corunna (7 a.m.)	1024.0	52	SSW	3	o	1017.2	+1	52	+11	SW	3	-	o	4	7	54	50					
Madrid (8 a.m.)	1023.1	41	SW	2	b	1024.3	+3	34	+2	-	0	-	m	+	?	43	30					
Lisbon (9 a.m.)	1027.0	52	N	3	b	1024.4	-2	54	+11	WSW	3	-	o	4	-	55	50					
Gibraltar	1026.1	51	NW	6	b	1025.4	+	49	+3	NW	6	+	b	3	-	56	45					
Rome																						
Malta (8 a.m.)						1011.9	+1	54	+2	NW	4	-	bc	3	Trace	57	52					
Azores(Horta, 8 a.m.)	1027.4	+	SSW	5	bc	1021.5	-3	62	+1	SW	8	+	c	7	2	66	59					
Madeira (Funchal)																						

South Farnborough.

Pilot Balloon Ascent at about 7 a.m.

2000 metres W by S 30 miles per hour  
500 " W by S 50 " "





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.

South Cone  
hoisted at 7.30  
p.m. & 9.15 a.m.

Western Channel and Bay 11

0 } Squally South-Easterly wind, strong to gale,  
1 } veering Southerly or South-Westerly later; some rain, snow  
locally; becoming colder.

2 } Squally South-Westerly wind, fresh to high at  
3 } times; changeable, some rain; mild.

4 } Squally South-Westerly wind, strong to gale at  
5 } times; changeable, some rain; mild.

6 } Same as Nos. 0 and 1.

8 } Same as No. 5.

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

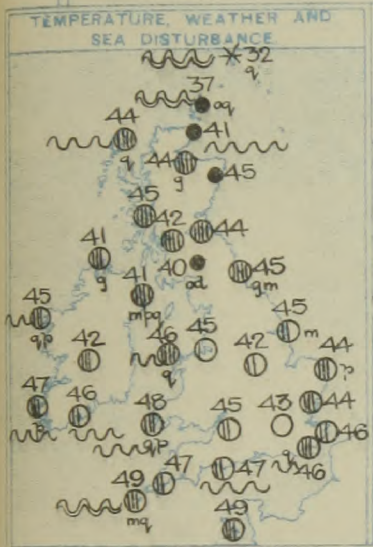
FURTHER OUTLOOK.



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

## GENERAL INFERENCE.

Atlantic disturbances will maintain the unsettled conditions.



## EXPLANATION.

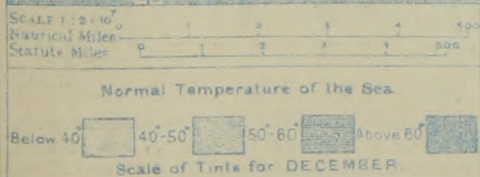
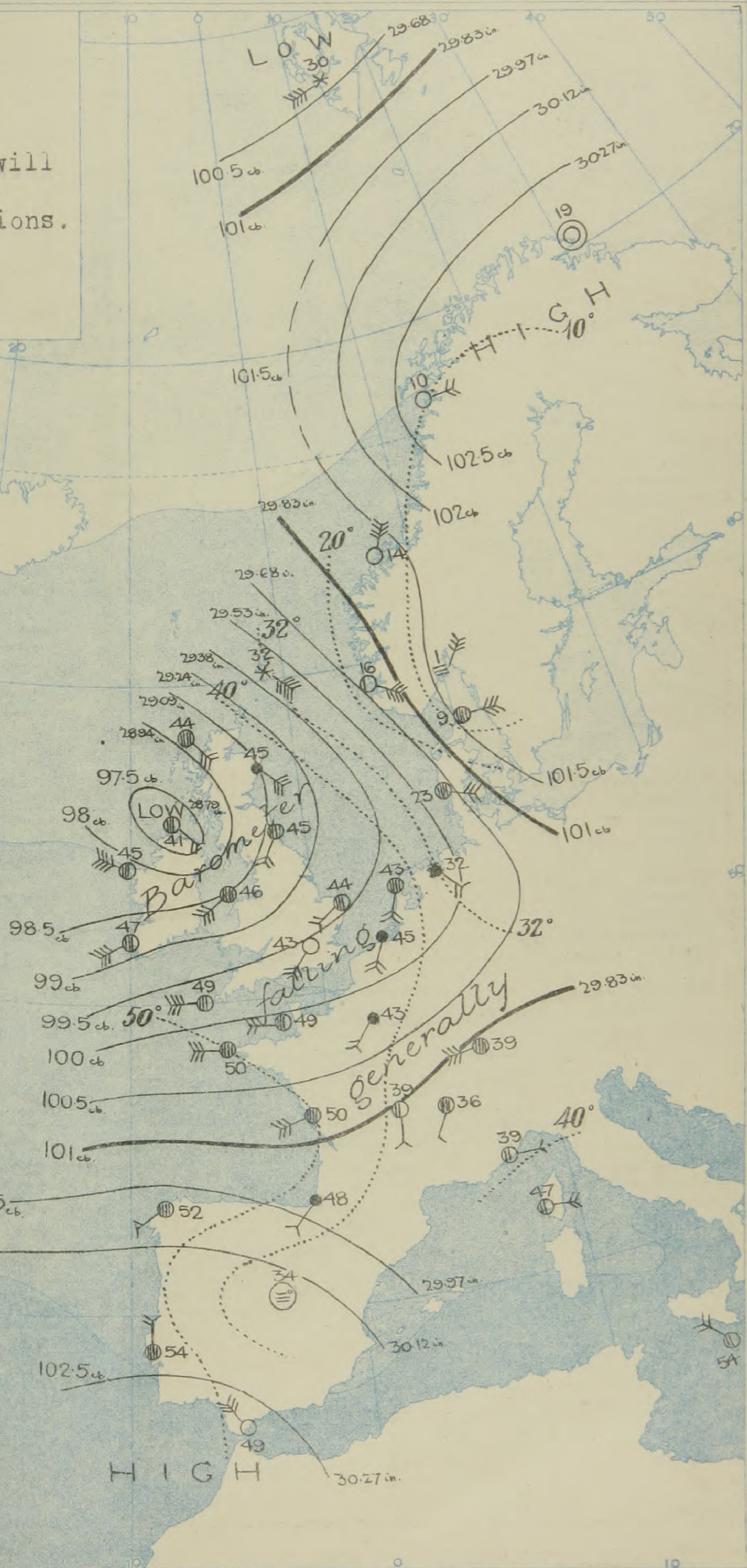
**BAROMETER.**—Isobars are drawn for intervals of five millibars.

**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 ~~~~~





## DAILY WEATHER REPORT.

Thursday, 23rd December, 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.								
	Nice, Malta Funchal	1014.7 1023.7	43 61	- ENE	0 3	bc c	1014.1 1013.2 1026.9	0 0 0	39 52 57	- - -	0 3 3	- WSW ENE	0 3 3	- bc o	2 1 3	- - -	50 59 63	36 52 57		
.....22nd December, 1915.....																				

22nd December, 1915.

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

STATIONS.	Rainfall. mm. & in.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m. Hr.	STATIONS.	Rainfall. mm. & in.	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 ...	4	46	34	r	o	0.0	Margate ...	3	49	39	om	omd	0.0
Banff ...	0.2	42	34	o	dd	0.0	Ramsgate ...	3	46	36	r	c	0.0
Carnoustie ...							Hastings ...	2	49	45	o.c	o	0.0
St. Andrews ...	2	39	32	*	*	0.0	Bexhill-on-Sea ...						
England, N.E.							Eastbourne ...	1	50	43	o	o.bom	0.2
Harrogate ...	5	46	35	r.o	o	0.0	Seaford ...	1	49	40	*	c	0.6
Skegness ...	2	45	35	r.o.d	dm	0.0	Brighton ...	1	48	42	pr.o.c	c.o.	0.3
England, N.W.							Worthing ...	2	49	42	o	o	0.0
Morecambe ...	2	47	34	om	md	0.0	Littlehampton ...	1	50	45	dr	o	0.0
Blackpool ...	7	48	40	od	o.or	0.0	Bognor ...	1	50	44	op	o.c	0.0
Southport ...	8	49	42	or.o	c.or.	0.0	Southsea ...		51	44	o	o	0.0
Midlands.							Bournemouth ...		5	44	o	o	0.1
Buxton ...							England, S.E.						
Leamington Spa ...	2	50	37	o.c	o.c	0.2	Weymouth ...		52	47	c	c	0.0
Malvern ...	1	51	43	c	c	0.0	Torquay ...		52	49	o	o	0.0
Ross-on-Wye ...	1	51	46	o.c	dc.o	0.2	Paignton ...						
Wales.							Falmouth ...	0.2	52	48	o	o.r.c	0.2
Rhyl ...	3	53	43	r.o	q.c	0.5	Penzance ...	1	53	49	c	o	0.0
Colwyn Bay ...	6	53	45	r.c	dc	0.3	Newquay ...		52	48	og	c.o	0.0
Llandudno ...							Ilfracombe ...	2	52	48	o	o	0.0
Aberystwyth ...	12	52	44	r.o.c	o.c	0.0	Weston-super-Mare ...		52	40	mo.c	c.o	0.0
Tenby ...	3	50	47	bc.c.o	r	0.0	England, S.W.						
England, E.													
Cromer ...													
Lowestoft ...	3	43	37	of	of	0.0							
Felixstowe ...	3	46	36	omr	omr	0.0							
Walton-on-Naze ...													
Southend-on-Sea ...	2	45	37	q.d	o.bcz	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.						
				%	%	Hr.	° F.	° F.	° F.	mm. &
Greenwich (Royal Obsy.) ...	89	79	0.0	50	42	36	3	o.op	o.c	o.or.bc
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	93	82	0.0	51	43	36	2	ome	o	omr.bc
Camden Sq. (Brit. Rainfall)	90	86	0.0	50	42	37	2	oe.o	o	*
Hampstead (Reservoir) ...	*	91	0.0	48	39	28	2	omr	o	o.or.bc
Richmond Park	*	*	0.0	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.	Average Rate.		Max. Rate.			
S. Kensington (Roof of M.O.)	87	82	0.0	127 Joules	4.6 Milliwatts.		12. Milliwatts.			

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

... 23rd & 24th Dec., 1915.	Sunrise.		Noon.		Sunset.	
	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	8.5	11.52	3.29			
Greenwich ...	8.6	11.53	3.40			
Wick ...	8.7	12.0	3.52			
Valencia ...	8.8	12.1	4.04			

## NOTES ON YESTERDAY'S WEATHER.

Mildness was general, with temperature above 50° at many stations. Rain fell everywhere, 16 mm. at Valencia and Aberdeen. There was little or no sunshine. A Westerly gale was felt in the night in the west, a South-Easterly gale in the far north.

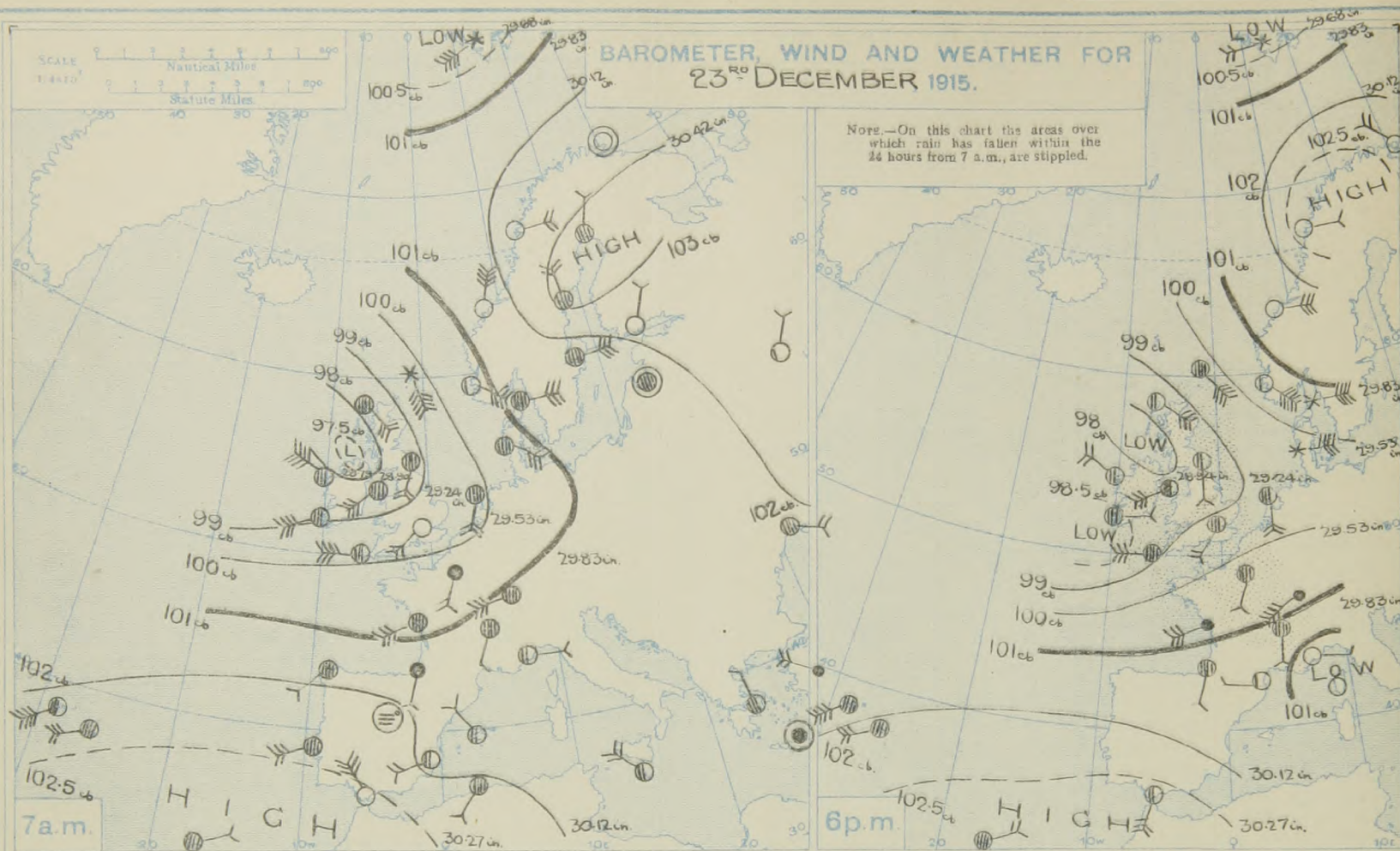
NOTE.—The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloom; h. hail; l. lightning; m. mist; o. overcast sky; p. passing showers; q. squalls; r. rain; 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.



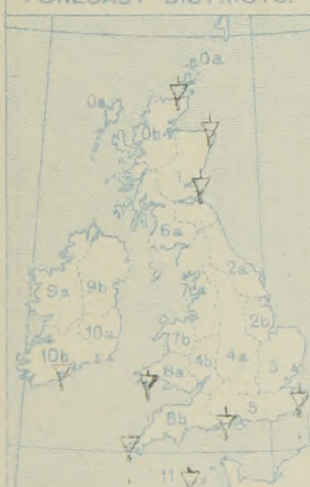
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
	BAROM. Milli- bars at M.S.L.	TEMP. °F.	WIND.		Weather.	BAROMETER.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.			
			Force 0-12.	Dir.		Milli- bars at M.S.L.	Change in 24 hours.	Dry Bulb.	Change in 24 hours.	Force 0-12.	Dir.					Max.	Min.	Morning.	Afternoon.	Night.	
BRITISH ISLANDS.																					
Lerwick ...	999.3	29	SE	8	aq	997.6	-1	30	-2	SE	8	-	omg	7	0.4	32	27	3q	eqp	omg	Hours.
Deerness ...	990.2	31	ESE	5	3ug	988.5	-1	33	-4	ESE	6	-	rsq	6	5	43	31	orsug	3ug	orsq	0.0
Stornoway ...	982.0	41	ESE	6	bcq	982.0	-1	40	-4	ESE	7	-	eq	6	-	45	39	o.cq	c.bcq	eq	0.0
Castlebay (Barra Isd.)	999.4	25	ESE	3	o	997.0	-2	45	-3	E	4	-	aq	4	1	48	43	op.o	o	aq	0.0
Glasgow ...	997.9	40	SE	3	om	997.4	-2	39	-3	ENE	2	-	o	+	1	42	38	omip	dp. om	adp. om	0.0
Eskdalemuir ...	981.4	37	SE	3	or	979.5	-1	37	-3	NNE	1	-	o	+	11	42	36	or. eq	or. or	or. or	0.0
Malin Head ...	978.5	44	N	4	aq	974.6	-2	40	-1	SE	3	-	cm	3	3	46	38	omr	cp	cm	0.0
Blacksod Point	982.0	42	WNW	4	bc	971.9	-5	40	-6	ESE	3	SE	cm	3	1	46	38	cm	bc	cm	0.0
Valencia ...	984.1	43	E	2	c	969.6	-6	48	+1	S	2	-	op	4	7	51	42	bcq	bc	o.cq	2.3
Roche's Point	987.4	45	W	4	bc	973.3	-1	48	+2	W	3	-	r	4	9	49	44	bcq.p	bcq.p	ap. or	+
Birr Castle ...	983.6	40	SW	1	c	972.2	-1	44	+2	S	1	-	o	+	3	46	37	cp	c	c.o	4.8
Donaghadee ...	977.5	44	W	5	omg	976.0	-2	42	+1	S	2	S	cym	1	1	44	39	omg.p	omg.p	om. cgm	+
Liverpool (Bidston)	984.3	45	SSW	3	o	977.0	-4	40	-5	ESE	3	-	o	3	1	47	40	bc	bcq	od	2.6
Holyhead ...	978.1	47	WSW	6	aq	975.0	-6	44	-2	ENE	5	-	aq	4	1	48	43	o.cq	c.bc.c	c.o.cq	2.3
Pembroke (St. Ann's)	987.2	49	WSW	5	bcq	976.8	-3	50	+2	SW	4	SW	eq	5	6	50	45	cyp	cyp	cyp	1.5
Scilly (St. Mary's)	987.7	52	W	6	omg.p	978.9	-4	51	+2	SW	6	SW	bcq.p	7	12	52	46	c. omg.p	omg.p	emg.p	0.0
Falmouth ...	988.4	47	SSE	1	md	980.3	-3	51	+4	SW	7	-	o	+	18	52	46	aq	aq. md	aq. qp	0.0
Jersey (St. Aubin)	997.0	48	SW	4	aq.r	986.0	-1	52	+3	WSW	5	W	b	4	17	52	46	c. op.o	aq	aq. b	0.2
Portland Bill ...	991.9	45	WSW	6	or	981.4	-4	51	+4	WSW	5	SW	bc	5	24	51	47	ophr.o	or	or. bc	+
Dungeness ...	992.2	47	WSW	5	orq	982.4	-1	49	+3	SW	5	-	r	5	21	49	44	bcq	or.o	or.	+
Dover ...	992.9	45	SW	6	c	982.2	-2	50	+4	SW	4	SW	o	5	16	50	43	bc	or. bc.c	or.o	4.0
Wick ...	987.4	36	SE	8	r	987.1	-1	37	-4	SE	8	-	r	7	6	41	34	omg.p	omg.p	omg.p	+
Nairn ...	983.8	39	ESE	5	omg	982.6	-1	38	-6	SE	4	-	aq	4	0.1	45	37	c. bc	cm	q. bc.c	0.0
Aberdeen ...	985.6	39	ESE	3	aq.p	984.0	-1	39	-6	ESE	7	-	aq	7	5	45	39	aq	aq	aq.p	0.0
Leith ...	981.1	43	SE	2	r	979.4	-2	41	-3	SE	1	-	o	4	1	45	39	aq. o.c	c.o.c	r.c.o	+
Tynemouth ...	983.3	43	S	2	bcq	980.3	-3	42	-3	SSE	2	-	omr	4	4	45	41	om	bc	omg	+
Spurn Head ...	986.6	42	WSW	4	bc	981.6	-4	38	-7	SW	3	-	f	5	Trace	45	37	bc	o. bc	c	4.5
Yarmouth ...	989.6	42	SW	4	bc	981.4	-4	42	-2	SW	1	-	af	1	1	46	37	cp. bc	bc	d. c. q	3.3
Clacton-on-Sea	990.7	43	SW	3	bc	981.7	-1	44	0	ESE	1	-	m	0	5	46	41	c. bc	bc. bc	c. qm	3.8
Nottingham ...	987.0	43	SW	3	o	979.1	-1	41	-1	E	2	E	r	+	3	47	39	c. bc	bc. op. o	o. c. bc	2.0
Bath ...	990.0	47	SW	2	o	979.7	-1	50	+5	W	3	W	o	+	9	52	43	bc. or	r. o	or	2.2
St. Farnborough	990.8	45	WSW	6	bc	980.3	-3	50	+9	WSW	5	-	c	+	4	50	40	b. o	d. bc. o	op	2.7
London (Kew Obsy.)	990.7	45	SW	3	c	980.6	-3	46	+3	S	1	-	ou	+	7	49	42	b. bc. c	op. c. p. o. bc. c. om. p. o.	+	3.0
NORTHERN EUROPE.																					
Spitsbergen ...	1004.8	12	W	4	S	1011.0	+1	3	-27	NW	1	+	o	+	+	28	1	GALES.  Duration and Extreme Force in British Islands.  <u>Lerwick</u> 23rd 7 a.m. - 24th 7 a.m. SE 8.  <u>Deerness</u> 23rd 7 a.m. - 24th 2 p.m. ESE 8 Ex. ESE 7 @ 11 a.m.  <u>Blacksod Point</u> 23rd 7 a.m. - 9 a.m. WNW 8  <u>Scilly</u> During morning of 23rd Squalls WSW 8  <u>Jersey</u> During early morning of 24th W 8.  <u>Wick</u> 23rd 9 a.m. - 24th 7 a.m. SE 8 Ex. SE 9 @ 4 p.m.  <u>Aberdeen</u> During morning of 23rd Gusts ESE 22 m.p.s. 23rd 3 p.m. - 6 p.m. ESE 8 Gusts ESE 26 m.p.s. 23rd 8 p.m. - 11 p.m. ESE 8			
Vardö ...	1024.7	19	NW	3	b	1020.2	0	21	+2	WSW	5	-	b	3	+	25	14				
Bodö ...	1026.6	14	E	2	b	1026.1	-3	14	+4	E	2	-	b	2	-	14	10				
Christiansund	1012.3	10	E	6	b	1009.3	0	14	0	E	7	-	b	5	-	14	10				
Skudesnaes ..	1005.0	16	ESE	10	b	1000.4	-2	21	+5	ESE	10	-	o	7	-	18	14				
Færder (X'ania Fjord)	1014.3	14	ENE	7	o	1013.5	0	7	+6	ENE	7	-	o	3	-	14	1				
The Scaw (Skagen)	1008.4	18	E	8	S	1004.6	-1	16	+7	E	7	-	S	7	-	16	12				
Blaavands Huk	995.9	23	E	7	S	991.0	-2	28	+5	ESE	6	-	S	5	Trace	25	19				
Haparanda ...														+							
Hernösand ...														+							
Stockholm ...														+							
Wisby ...														+							
Karlstad ...														+							
Petrograd (5 a.m. G.M.T.)														+							
FRANCE, &c.																					
The Helder ...	991.3	43	S	4	c	983.5	-5	43	0	SE	1	-	o	1	2	46	43	GALES.  Duration and Extreme Force in British Islands.  <u>Lerwick</u> 23rd 7 a.m. - 24th 7 a.m. SE 8.  <u>Deerness</u> 23rd 7 a.m. - 24th 2 p.m. ESE 8 Ex. ESE 7 @ 11 a.m.  <u>Blacksod Point</u> 23rd 7 a.m. - 9 a.m. WNW 8  <u>Scilly</u> During morning of 23rd Squalls WSW 8  <u>Jersey</u> During early morning of 24th W 8.  <u>Wick</u> 23rd 9 a.m. - 24th 7 a.m. SE 8 Ex. SE 9 @ 4 p.m.  <u>Aberdeen</u> During morning of 23rd Gusts ESE 22 m.p.s. 23rd 3 p.m. - 6 p.m. ESE 8 Gusts ESE 26 m.p.s. 23rd 8 p.m. - 11 p.m. ESE 8			
C. Gris Nez ...	993.0	47	SW	6	o	978.9	0	50	+4	SW	6	+	o	3	32	50	45				
La Hève ...	996.3	47	SW	5	r	987.3	+	51	+6	SW	5	+	o	5	6	50	46				
Ushant ...														+							
Brest (St. Mathieu)	995.3	52	SW	7	r	987.5	0	53	+3	WSW	6	+	o	7	7	52	50				
Roche fort (Ile d'Aix)	1007.4	51	WSW	5	r	995.7	-3	54	+4	SW	8	+	r	+	9	52	50				
Biarritz ...	1013.1	53	SW	2	o	1003.8	-2	58	+10	SSW	2	+	o	5	-	55	52				
Paris ...	1001.5	46	SW	3	o	991.0	-2	52	+9	SSW	+	-	o	+	10	54	43				
Belfort ...	1006.0	37	SW	7	r	999.1	+	41	+2	WSW	7	+	r	+	7	39	37				
Lyons ...	1012.0	41	S	2	o	1005.7	+	43	+7	S	3	+	o	+	3	44	38				
Nice ...	1008.7	45	E	1	b	1009.3	0	43	+4	-	0	+	o	3	1	50	37				
Perpignan ...	1013.5	50	W	1	b	1009.2	-3	45	+	-	0	W	o	+	-	55	43				
Sanguinaire ...														+							
SOUTHERN EUROPE.																					
Corunna (7 a.m.)														+				GALES.  Duration and Extreme Force in British Islands.  <u>Lerwick</u> 23rd 7 a.m. - 24th 7 a.m. SE 8.  <u>Deerness</u> 23rd 7 a.m. - 24th 2 p.m. ESE 8 Ex. ESE 7 @ 11 a.m.  <u>Blacksod Point</u> 23rd 7 a.m. - 9 a.m. WNW 8  <u>Scilly</u> During morning of 23rd Squalls WSW 8  <u>Jersey</u> During early morning of 24th W 8.  <u>Wick</u> 23rd 9 a.m. - 24th 7 a.m. SE 8 Ex. SE 9 @ 4 p.m.  <u>Aberdeen</u> During morning of 23rd Gusts ESE 22 m.p.s. 23rd 3 p.m. - 6 p.m. ESE 8 Gusts ESE 26 m.p.s. 23rd 8 p.m. - 11 p.m. ESE 8			
Madrid (8 a.m.)														+							
Lisbon (9 a.m.)														+							
Gibraltar ...	1025.4	55	SSW	5	bc	1022.7	+	56	+7	NW	4	+	o	4	-	58	49				
Rome ...														+				GALES.  Duration and Extreme Force in British Islands.  <u>Lerwick</u> 23rd 7 a.m. - 24th 7 a.m. SE 8.  <u>Deerness</u> 23rd 7 a.m. - 24th 2 p.m. ESE 8 Ex. ESE 7 @ 11 a.m.  <u>Blacksod Point</u> 23rd 7 a.m. - 9 a.m. WNW 8  <u>Scilly</u> During morning of 23rd Squalls WSW 8  <u>Jersey</u> During early morning of 24th W 8.  <u>Wick</u> 23rd 9 a.m. - 24th 7 a.m. SE 8 Ex. SE 9 @ 4 p.m.  <u>Aberdeen</u> During morning of 23rd Gusts ESE 22 m.p.s. 23rd 3 p.m. - 6 p.m. ESE 8 Gusts ESE 26 m.p.s. 23rd 8 p.m. - 11 p.m. ESE 8			
Malta (8 a.m.)														+							
														+							
AZORES &c.																					
Azores (Horta, 8 a.m.)	1018.0	+	SW	8	o									+				GALES.  Duration and Extreme Force in British Islands.  <u>Lerwick</u> 23rd 7 a.m. - 24th 7 a.m. SE 8.  <u>Deerness</u> 23rd 7 a.m. - 24th 2 p.m. ESE 8 Ex. ESE 7 @ 11 a.m.  <u>Blacksod Point</u> 23rd 7 a.m. - 9 a.m. WNW 8  <u>Scilly</u> During morning of 23rd Squalls WSW 8  <u>Jersey</u> During early morning of 24th W 8.  <u>Wick</u> 23rd 9 a.m. - 24th 7 a.m. SE 8 Ex. SE 9 @ 4 p.m.  <u>Aberdeen</u> During morning of 23rd Gusts ESE 22 m.p.s. 23rd 3 p.m. - 6 p.m. ESE 8 Gusts ESE 26 m.p.s. 23rd 8 p.m. - 11 p.m. ESE 8			





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.

South Cone

hoisted in Districts 0 and 1 at

9.15 a.m. in Districts 5, 8, 10-11 at 7.30 p.m.

Western Channel and Bay

0 { a } Squally South-Easterly winds, strong to gale,  
b } moderating later; unsettled, some rain or snow; moderate temperature.

2 { a } South-Easterly to Southerly breezes, increasing  
b } later; unsettled, some rain and mist; mild.

5 { a } Squally South-Westerly wind, strong to gale at  
b } times; unsettled, some rain and mist; mild.

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

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

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

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

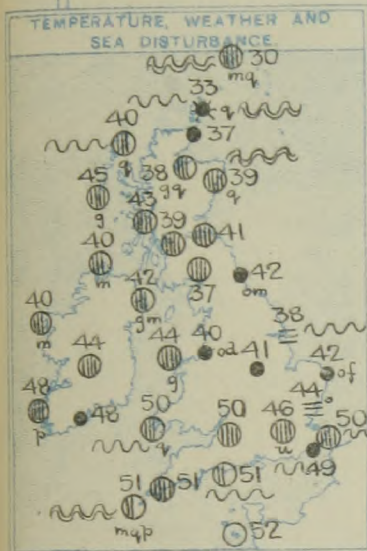
10 { a } Squally South-Westerly wind, strong to gale at times;  
b } high sea and swell; unsettled, some rain, mist or fog; mild.

FURTHER OUTLOOK.



GENERAL INFERENCE.

A new disturbance off  
Ireland will maintain the  
unsettled conditions.



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.

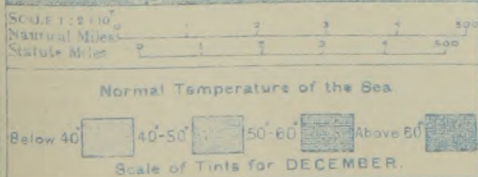
**WEATHER.**—Shown by the following symbols:—  
○ clear sky. ○ sky & clouded. ○ sky & clouded.  
○ sky & clouded. ○ overcast sky. ● rain falling.  
✱ snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
⚡, thunderstorm.

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

Inches  
—31

30

29



HIGH

30.27 in.

LOW

28.65 in.

28.79 in.

28.94 in.

29.09 in.

29.24 in.

29.38 in.

29.53 in.

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29.83 in.

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## DAILY WEATHER REPORT.

Friday, 24th December, 1915.

REPORTS  FOR  YESTERDAY.	STATIONS.	EVENING OBSERVATIONS.					OBSERVATIONS AT 7 A.M., C.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 24 hours. ° F.	Direc.	Force 0-12.					Max.	Min.
			° F.															
	CastHebay	992.6	48	S	4	o	977.3	-3	48	o	ESE	4	-	o	4	16	49	48
	Haberando	1033.3	-26	ENE	2	bc	1031.1	o	-8	+15	NNE	2	-	o	4	-	10	-26
	Hebnesand	1027.9	-8	NW	4	b	1020.7	+1	-6	+5	N	4	-	o	4	-	-6	-11
	Stockholm	1017.6	-2	NW	2	c	1017.2	+3	16	+20	E	6	-	o	4	5	15	-6
	Wibby	1016.3	12	W	4	o	1015.0	-3	10	-6	ENE	4	-	o	4	Trace	15	9
	Karlshol	1023.7	-13	N	2	b	1018.3	-3	1	+7	N	2	-	o	4	-	3	-15
	Funchal	1027.6	59	ENE	2	o	1027.4	o	59	+2	ENE	2	-	o	4	-	63	57
.....23rd December, 1915.....																		

22nd December, 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 ...	11	45	40	c	o	0.1	Tunbridge Wells ...						
Banff ...	9	42	36	uzgo	go	0.0	Margate ...	0.4	51	41	bc	c.o	3.7
Carnoustie ...							Ramsgate ...	1	47	41	bc	rc	4.2
St. Andrews ...				*	*		Hastings ...	9	50	43	bc, bc	oc	3.2
England, N.E.							Bexhill-on-Sea ...						
Harrogate ...	4	45	39	o.c	bc, c.o	1.6	Eastbourne ...	11	51	44	b	org	3.0
Skegness ...	2	46	40	bc	o, bc, bc	2.6	Seaford ...						
England, N.W.							Brighton ...	17	49	45	bc, c.o, or	or, o, or	2.3
Morecambe ...	2	44	43	bc, c	oc	0.1	Worthing ...	17	46	42	bc, or	r	2.0
Blackpool ...	4	49	43	c, bc	c.o, or	1.6	Littlehampton ...	12	47	42	bc, bc	oc	2.1
Southport ...	2	48	43	c, bc, p.	c, op.	2.4	Bognor ...						
Midlands.							Southsea ...	8	50	44	oc	oc	0.0
Buxton ...	3	45	42	op, bc	o, c, bc	1.1	Bournemouth ...	13	49	42	bc, oc	oc	1.6
Leamington Spa ...	7	45	42	or	no	0.0	England, S.E.						
Malvern ...	12	49	42	org	bc	0.4	Weymouth ...	8	50	45	bc, c	c, or	0.6
Ross-on-Wye ...							Torquay ...	15	52	45	o, c	c, o	0.5
Wales.							Paignton ...						
Rhyl ...	0.3	49	44	b	b	3.7	Falmouth ...	19	49	45	rg	rg, md.	0.0
Colwyn Bay ...	2	48	45	bc	bc	1.3	Penzance ...	19	50	47	oc	oc, f	0.0
Llandudno ...							Newquay ...	17	49	?	org	org, dm	0.0
Aberystwyth ...	2	48	45	no, c	c, o	0.2	Ilfracombe ...	?	50	45	op, c	c, or	0.0
Tenby ...	12	49	44	bc, op	bc, c	1.5	Weston-super-Mare ...	6	48	41	bc, bc	bc	0.5
England, S.W.													
Cromer ...													
Lowestoft ...	2	47	41	bc, c	c	3.5							
Felixstowe ...	2	42	37	bc	bc	3.9							
Walton-on-Naze ...													
Southend-on-Sea ...	1	49	41	bc, bc	op, bc	3.3							

## 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.) ...	80	86	3.1	49	43	37	7	bc	c, op	o, or
City (Bunhill Row) ...	*	*	1.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	86	90	2.2	51	44	37	7	bc	bc, op	o, o
Camden Sq. (Brit. Rainfall)	82	91	1.3	50	42	40	7	bm. e	c	*
Hampstead (Reservoir) ...	*	97	1.8	48	41	35	7	bc, op	op	o, m, bc
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.)	80	86	2.5	205 Joules		73 Milliwatts.		22 Milliwatts.		

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

	24th & 25th Dec., 1915.		
	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	8.4	11.53	3.41
Greenwich ...	8.7	12.0	3.53
Wick ...	9.5	12.1	3.4
Valencia ...	251	13.44	4.31

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 50° and over at many southern stations but at Lerwick it did not exceed 32°. Rain was general, 24 mm. at Portland. Snow fell in Shetland and the Hebrides. Sunshine varied from none locally to 4.8 hours at Birr Castle.

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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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 359.

Saturday,  
25th December 1915.

DATE.	STATIONS.	YESTERDAY EVENING.					THIS MORNING * 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.		Dir. 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 8 hours.	Dry Bulb.	Change in 24 hours.	Dir.	Force 0-12.					Max.	Min.	Morning	Afternoon.	Night.	
BRITISH ISLANDS.	Lerwick ...	994.5	29	SE	8	sq	991.6	-1	33	+3	SE	6	-	og	5	1	33	27	osqp	asqp	sqp.0	Hours.
	Deerness ...	986.1	33	E	6	rs	983.0	2	38	+5	ESE	7	-	ry	6	17	38	34	ros	rs	ry	0.0
	Stornoway ...	980.0	40	ESE	6	og	977.4	-2	41	+1	ESE	5	-	og	5	-	41	39	og	og	og	0.0
	Castlebay (Barraisd.)	975.7	45	E	4	o	973.8	0	45	0	NE	3	-	o	3	-	46	43	og.bc	bc.o.	c.o.	0.4
	Glasgow ...	976.1	39	ENE	3	og	973.9	-1	42	+3	ENE	3	-	ogr	4	4	42	38	ogm	dmp.o.c	or.ogr	0.0
	Esksdalemuir ...	976.5	40	ENE	3	o	974.1	0	43	+6	ESE	3	-	or	4	4	43	37	o.ond	od.o	o.cd.or	0.0
	Malin Head ...	972.4	44	ESE	4	cmg	970.2	0	45	+5	SE	4	-	omr	5	4	45	40	cmg	cmg	omr	0.0
	Blacksod Point	969.2	43	ESE	2	ond	970.0	+1	43	+8	NNE	2	-	ofd	3	4	43	38	cmg	cmg	ofd	0
	Valencia ...	969.2	47	SW	3	o	971.1	+2	47	-1	NW	3	-	omp	4	4	50	46	cp	cp.op	c.op	0.3
	Roche's Point	970.4	48	SW	4	c	972.9	0	47	-1	WSW	4	-	r	4	6	50	45	op.cm	cmp	c.or.	0
	Birr Castle ...	968.7	46	S	1	r	970.5	0	44	0	SW	2	-	o	4	6	47	44	or.o	od.r	or.o	0.0
	Donaghadee ...	971.4	43	SE	5	omr	971.1	+2	44	+2	SSW	3	SW	cm	2	12	47	42	cmg	cmr.omr	omr.om	0
	Liverpool (Bidston)	973.7	46	ESE	2	bc	976.8	+2	44	+4	S	3	-	b	2	7	47	40	or	op	bc.p	0.0
	Holyhead ...	971.7	48	E	3	ogpm	973.8	+1	47	?	SW	5	SW	bc	4	14	49	44	o.omr	op.op.o	or.o.bc	0.0
	Pembroke (St. Ann's)	972.8	50	SW	5	ogp	975.8	-1	48	-2	SSW	5	S	b	6	7	50	48	ogp	ogp	bc.p	0.6
	Scilly (St. Mary's)	976.2	49	WSW	7	omq	976.5	-2	48	+3	WSW	5	-	bg	6	3	53	46	cmg	cmg	ogp.o	1.2
	Falmouth ...	978.0	50	SW	7	og	977.4	-3	45	-6	SW	3	-	o	4	8	52	44	ogp.og	ogp.og	ogp.op	0.0
	Jersey (St. Aubin)	984.9	51	SW	4	cp	981.9	0	49	-3	SW	5	-	op	4	3	56	47	b.ogp.o	o.c.op.c	c.op	1.9
	Portland Bill ...	979.0	49	SW	6	ogp	979.5	-2	47	-4	ESE	5	-	or	6	6	51	47	bc.p	ogp	ogp	0
	Dungeness ...	982.1	50	SW	8	bcg	983.7	0	48	-1	S	5	S	b	5	10	51	48	og	og.bc	op.bc	0
	Dover ...	982.8	49	SW	6	b	985.7	0	48	-2	SW	6	SW	bc	6	14	50	46	or.c	cp.r.bc	c.or.o	0.3
	Wick ...	984.1	37	SE	7	r	981.3	0	40	+3	SE	5	-	o	6	6	40	36	omgdr	omr	omp	0
	Nairn ...	980.1	35	E	2	bc	978.0	0	39	+1	ESE	2	-	og	3	0.4	40	37	g.bc.c	cg	ogp.r	0.5
	Aberdeen ...	981.6	40	ESE	7	r	979.3	-1	39	0	ESE	7	-	og	7	4	41	39	ogp	ogp	ogp.r	0.0
	Leith ...	978.2	43	E	2	o	973.9	-2	44	+3	E	1	-	r	5	6	44	40	ogp.o	oe.o	r	0
Tynemouth ...	977.5	44	SE	4	r	975.6	-2	45	+3	SE	4	-	omr	5	7	44	42	omp	omp	omp	0	
Spurn Head ...	977.2	43	SSE	3	om	979.2	-1	45	+7	WSW	3	-	bc	4	5	45	38	f.om	omr	or.bom	0.0	
Yarmouth ...	978.9	45	SW	3	bc	983.8	+2	45	+3	SW	4	-	bc	4	4	48	41	omr.c	ond.bc	bap.bc	0.0	
Clacton-on-Sea	980.5	45	SSW	3	c	984.1	+1	44	0	SSW	4	SW	bc	3	8	47	42	ogm.c	c.ogr.c	cr.bc	0.7	
Nottingham ...	976.1	47	SW	3	r	979.5	0	44	+3	SW	3	SW	b	4	7	48	40	nd.o	or	r.op	0.0	
Bath ...	977.9	50	SW	1	bc	980.7	0	46	-4	S	2	S	bc	4	8	54	44	r.op.bc	o.c.bcp	or.c.bc	1.2	
St. Farnborough	979.6	49	SW	7	bc	982.1	0	46	-4	WSW	4	S	o	4	9	51	45	bc.rh	r.c.r.o	r.or.c	0.0	
London (Kew Obsy.)	979.9	50	SW	4	b	982.9	0	46	0	S	3	SW	b	4	7	52	45	on.c.bom	r.c.p.c.o	b.b.c.or.o	0.5	
NORTHERN EUROPE.	Spitsbergen ...	1010.3	3	-	0	S	1009.1	+3	5	+2	NNW	6	-	S	4	5	1					
	Vardö ...	1017.5	27	W	6	o	1017.6	-3	25	-2	WNW	5	-	o	5	2	27	14				
	Bodö ...	1024.2	16	E	4	b	1021.5	-3	12	-2	E	5	-	b	2	-	18	1				
	Christiansund	1006.0	16	E	6	b	1002.0	-2	27	+13	E	3	-	b	4	-	16	12				
	Skudesnaes ..	996.2	25	SE	9	o	993.1	-3	28	+7	ESE	9	-	c	5	-	25	19				
	Færder (X'ianta Fjord)	1007.1	16	NE	7	o	1003.4	-1	23	-16	NE	7	-	o	3	-	16	7				
	The Scaw (Skagen)	999.5	21	E	7	o	998.0	0	27	+11	E	7	-	3	7	-	27	10				
	Blaavands Huk	987.5	30	ESE	6	s	988.0	0	30	+2	ESE	6	-	3	5	Trace	30	25				
	Haparanda ...	1031.4	3	-	0	o	1031.8	0	-2	-2	S	2	-	o	4	-	3	-7				
	Hernösand ...	1027.7	-4	N	2	o	1025.1	-1	-6	+3	N	4	-	c	4	-	-4	-9				
	Stockholm ...	1013.5	21	ENE	4	s	1008.4	-1	21	+9	E	8	-	s	4	2	21	10				
	Wisby ...	1006.7	21	ENE	4	o	1001.3	-1	23	+2	E	6	-	o	4	2	23	10				
FRANCE, &c.	Karistad ...	1010.6	-6	NE	4	o	1007.1	-1	19	+9	NNE	8	-	bc	4	-	21	-6				
	Petrograd (5 A.M. G.M.T.)																					
	The Helder ...	980.2	45	SW	4	r	985.5	+3	45	+2	SSW	4	-	c	2	8	45	45				
	C. Gris Nez ...	982.3	48	SW	6	o	985.7	0	46	-4	S	4	-	b	3	7	50	45				
	La Hève ...	984.3	49	SW	5	r	985.5	0	46	-5	SSE	4	-	r	4	2	54	45				
	Ushant ...																					
	Brest (St. Mathieu)	986.1	52	SW	6	c	983.0	-1	48	-5	WSW	6	-	c	7	4	54	46				
	Rochefort (Ile d'Aix)	996.8	53	WSW	7	o	991.5	-1	50	-4	SW	4	-	o	4	11	55	50				
	Biarritz ...	1002.6	53	-	0	r	996.6	0	50	-8	W	3	-	r	7	13	61	50				
	Paris ...	991.5	50	SSW	4	b	990.9	-2	46	-6	SSE	3	-	r	4	8	55	46				
	Belfort ...	999.4	48	WSW	7	r	1000.3	0	45	+4	-	0	-	o	4	2	51	48				
	SOUTHERN EUROPE.	Lyons ...	1003.6	48	S	3	o	999.5	0	50	+7	-	0	-	o	4	-	50	48			
Nice ...		1007.9	46	-	0	r	1007.5	+2	46	+3	-	0	-	f	2	11	50	41				
Perpignan ...		1005.0	46	-	0	o	1001.0	-5	44	-1	WNW	1	W	o	4	-	55	41				
Sanguinaire ...																						
Corunna (7 a.m.)																						
Madrid (8 a.m.)		1012.4	48	SW	5	r	1006.6	+3	48	+2	SW	4	-	r	4	7	50	46				
Lisbon (9 a.m.)		1013.0	57	SW	6	r	1011.4	+2	59	+4	WSW	5	-	o	4	5	59	57				
Gibraltar ...		1020.3	58	W	7	o	1018.6	0	58	+2	W	7	-	o	6	1	60	55				
Rome ...																						
Malta (8 a.m.)							1020.4	+5	54	+2	WNW	2	-	bc	1	1	59	52				
Azores (Horta, 8 a.m.)		1015.7		WNW	5	bc	1012.0	-4	54	-4	W	1	-	r	3	1	63	54				
Madeira (Funchal)		1022.3	64	NE	2	o	1021.6	0	59	0	SW	3	W	o	3	-	64	59				

## GALES.

Duration and Extreme Force  
in British Islands.

Lerwick.

24th 7 a.m. - 25th 4 a.m. SE 8

Scilly.

24th 1 p.m. Squall WSW 8

24th 8 p.m. " " 8

24th 8 p.m. " " 8

Dungeness.

24th 4 p.m. - 6 p.m. SW

Aberdeen.

During day of 24th Gusts ESE 21 m.p.s.

" night of 24th " ESE 22 m.p.s.

South Farnborough

Pilot Balloon Ascent at about 7 a.m.

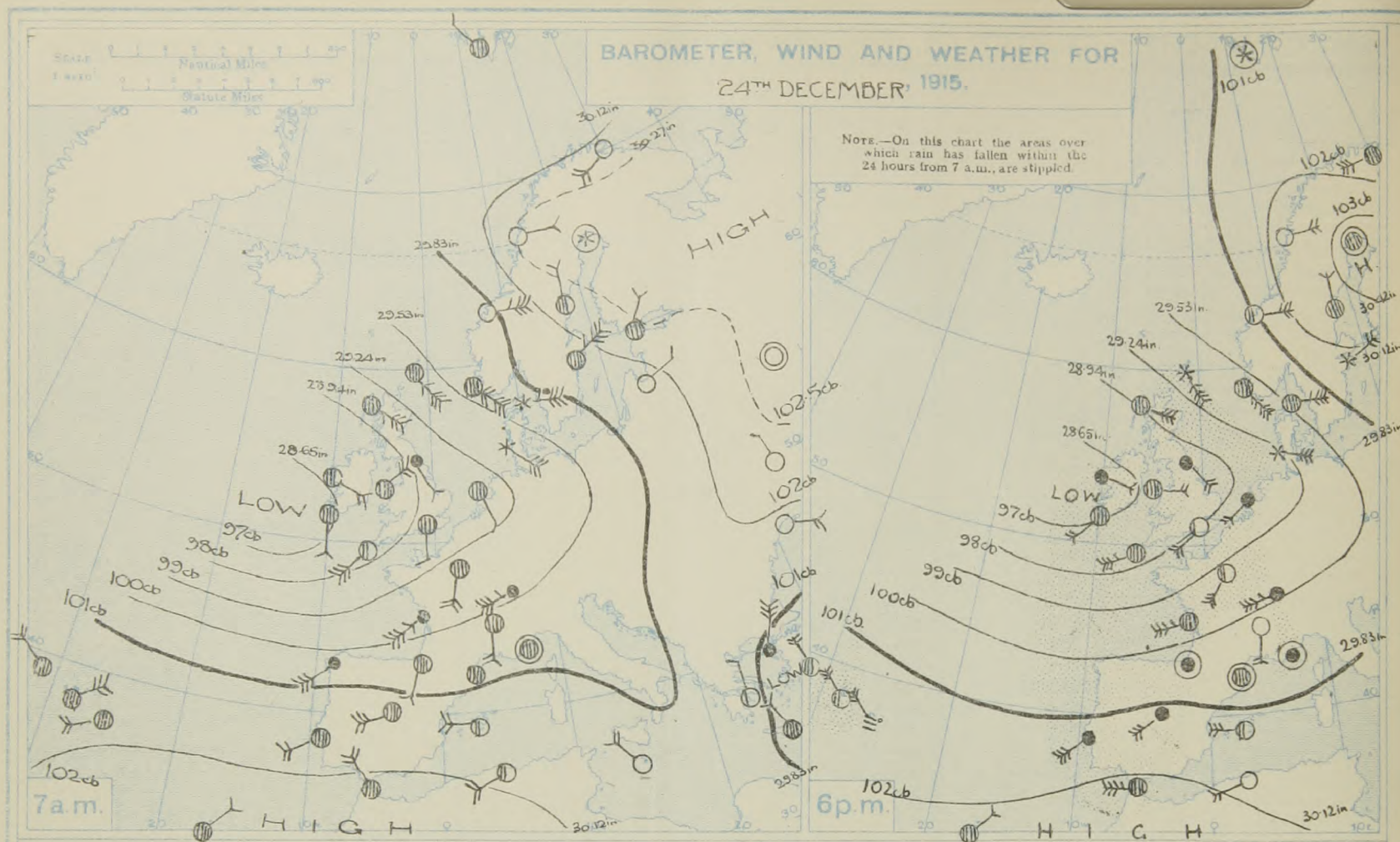
500 metres S 20 miles per hour.

\* 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 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

**FURTHER OUTLOOK.**

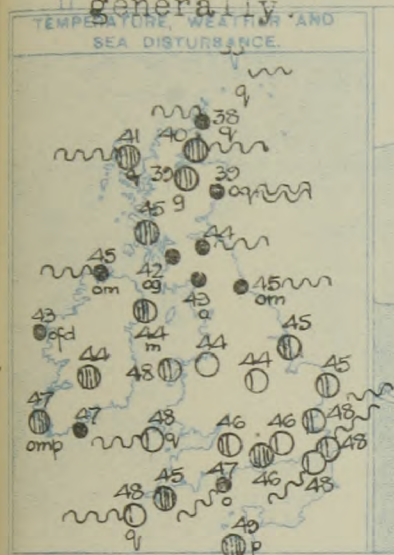
- |  |  |
|--|--|
| 0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11 | <div style="display: flex; align-items: center;"> <div style="font-size: 3em; margin-right: 10px;">}</div> <div> <p>Squally Easterly, strong to high winds, moderating later; some rain, sleet or snow, fair intervals moderate temperature.</p> <p>Fresh to strong squally winds between South and West, moderating; changeable, some rain and mist, fair intervals; mild.</p> <p>South-Easterly to Easterly breezes, light to moderate; unsettled, some rain, fair periods; mild.</p> <p>Same as Nos. 2 to 5.</p> <p>Wind direction very variable, force light to moderate; changeable, some rain and mist; mild.</p> <p>South-Westerly to Westerly squally winds, strong to high at times; rough sea and swell; changeable, some rain, mist or fog; mild.</p> </div> </div> |
|--|--|



# SYNOPTIC CHART FOR 7 a.m., SATURDAY, 25<sup>TH</sup> DECEMBER, 1915.

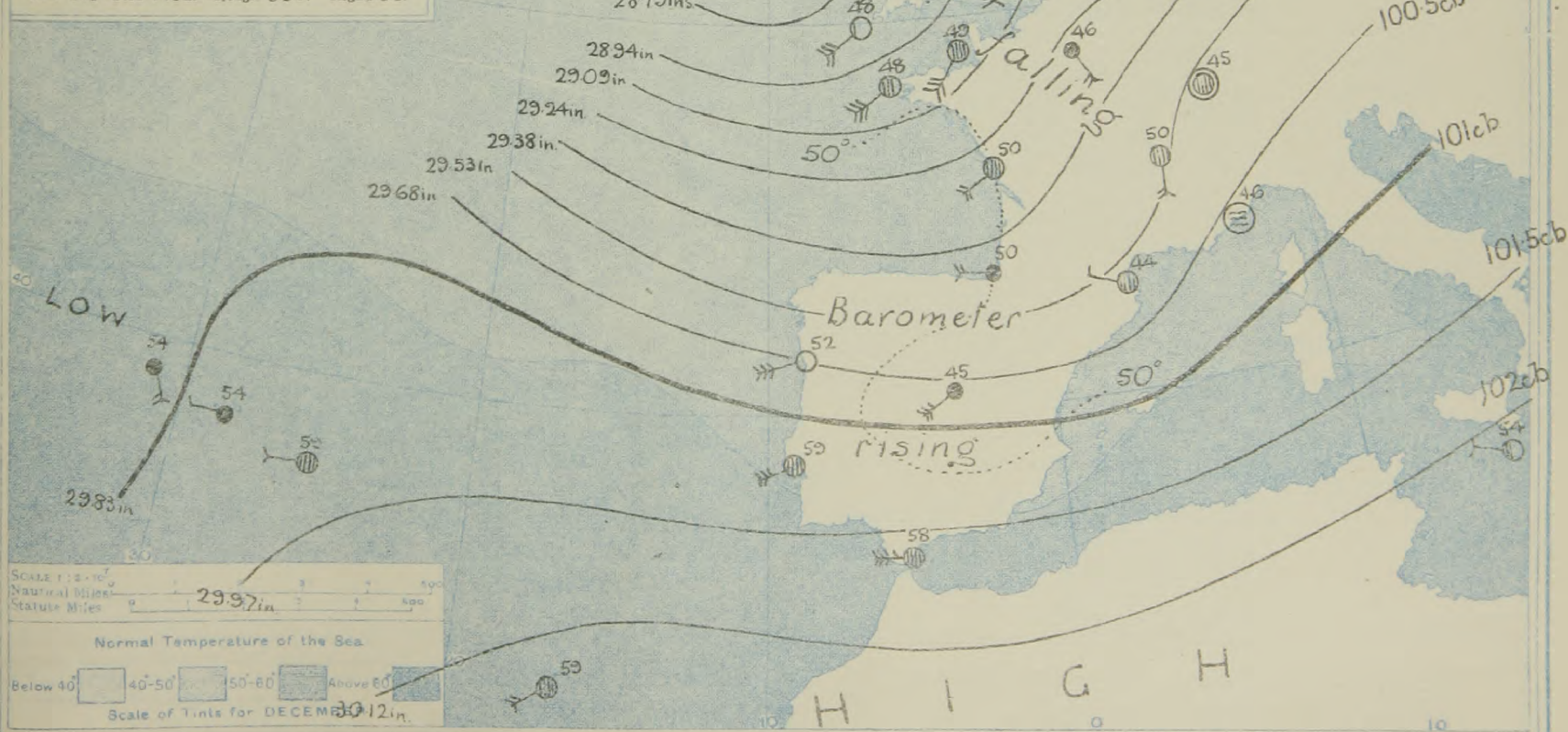
## GENERAL INFERENCE.

The depression over Ireland is inclined to disperse slowly, the situation remaining unsettled, but with fairer periods generally.



## 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





## DAILY WEATHER REPORT.

Saturday, 25th December 1915.

REPORTS  FOR  YESTERDAY.  24th December 1915.	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.		Dir. 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.						° F.	° F.									
	Haparanda	1028.2	0	SE	2	0	1029.5	+2	0	+8	-	0	-	S	.	1	1	-8	
	Hermösand	1029.7	-15	N	2	0	1028.7	0	-9	-3	N	2	-	0	.	-6	-15	-	
	Stockholm	1019.3	9	NE	6	0	1016.7	-1	12	-4	ENE	6	-	0	.	18	5	-	
	Wibby	1012.3	116	ENE	4	0	1010.6	-3	21	+11	E	6	-	0	.	3	21	10	
	Karlstad	1018.1	7	NNE	2	0	1016.8	-3	0	-1	NE	4	-	0	.	3	9	-4	
	Sanguinaipe	-	52	W	4	0	-	-	40	+3	W	4	-	0	.	5	35	45	
	Corunna	1014.0	57	SW	3	0	1002.0	-8	57	+5	SW	6	-	0	.	5	59	57	
	Madrid	1020.2	45	W	3	0	1017.1	-1	46	+12	WSW	5	-	0	.	12	2	45	
	Lisbon	1023.5	57	SW	3	0	1018.4	-4	55	+1	WSW	4	-	0	.	2	59	54	
	Malta	-	-	-	-	-	1014.4	+1	52	-2	NW	3	-	0	.	2	57	52	
	Horta	-	-	-	-	-	1017.6	0	58	-4	ENE	5	-	0	.	4	64	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.	
Scotland.													
Oban ...	-	45	41	0	0	-	Tunbridge Wells ...	-					-
Banff ...	8	42	35	T.S. to	0	-	Margate ...	7	53	44	0	0	-
Carnoustie ...	-					-	Ramsgate ...	10	51	42	0	0	1.7
St. Andrews ...	2	43	39	*	*	-	Hastings ...	10	51	45	0	0	-
England, N.E.							Bexhill-on-Sea ...	-					-
Harrogate ...	6	44	34	mt	7	-	Eastbourne ...	22	52	44	bc. 0	0. 0	-
Skegness ...	6	46	37	70	70	-	Seaford ...	14	51	44	9	9	-
England, N.W.							Brighton ...	21	50	44	bc. 0. 0	0. 0. 0	0. 1
Morecambe ...	-					-	Worthing ...	21	50	44	0	0	-
Blackpool ...	6	46	38	0	c. 0	-	Littlehampton ...	12	52	42	0	0. 0. 1	-
Southport ...	9	45	38	0	0. 0	-	Bognor ...	15	50	44	7	7	-
Midlands.							Southsea ...	-					-
Buxton ...	7	40	36	0	0	-	Bournemouth ...	13	52	43	0	0	0. 1
Leamington Spa ...	10	49	40	0. 0	0. 0	-							-
Malvern ...	-					-							-
Ross-on-Wye ...	6	50	41	0	bc. 0	0. 3							-
Wales.							Weymouth ...	15	52	46	0	c. bc	-
Rhyl ...	2	49	39	0	0	-	Torquay ...	18	53	46	0. 0	c. 0. 0	0. 3
Colwyn Bay ...	-					-	Paignton ...	18	53	46	0	0. 0	-
Llandudno ...	-					-	Falmouth ...	13	52	46	0. 0. 0	0. 0. 0	-
Aberystwyth ...	7	50	46	0. 0	0. 0	0. 2	Penzance ...	14	53	47	0	0	0. 2
Tenby ...	4	50	44	bc	bc. 0	0. 2	Newquay ...	-					-
England, E.							Ilfracombe ...	15	52	45	0. 0	0. 0	-
Cromer ...	-					-	Weston-super-Mare ...	-					-
Lowestoft ...	-					-							-
Felixstowe ...	8	49	41	bc. 0	bc. 0	0. 7							-
Walton-on-Naze ...	10	49	41	bc. 0	c. 0. 0	0. 8							-
Southend-on-Sea ...	7	49	43	bc. 0	0	0. 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 Obs.) ...	87	87	0.8	52	45	39	13	0	0	0
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	87	87	0.0	53	46	39	6	0.0	0.0	0.0
Camden Sq. (Brit. Rainfall)	*	91	0.0	52	45	39	6	-	-	*
Hampstead (Reservoir) ...	*	92	0.0	49	43	34	6	0.0	0.0	0.0
Richmond Park	*	*	0.7	VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.						
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)				Total.		Average Rate.		Max. Rate.		
S. Kensington (Roof of M.O.)	88	91	0.0	179 Joules		6.4 Milliwatts.		17 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.	5	47	40	37	bc. 0	0. 0	0. 0	0
Darwen to 9 p.m.	13	44	37	34	0	0. 0	0	-
Manchester "	4	47	39	*	0. 0	0. 0	0. 0	-
Birmingham "	4	46	39	33	"	0. 0	0. 0	-
Oxford to 8 p.m.	*	51	43	40	0	0. 0	0. 0	*
Teignmouth to 9 "	15	53	46	44	0. 0	0. 0	0. 0	0. 1
Plymouth "	16	53	47	"	0. 0	0. 0	0. 0	0. 2
S. Kensington (Museum Grounds to 8 p.m.)	3	49	45	37	bc	0	0	"

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

25th & 26th Dec 1915.	Sunrise.			Noon.			Sunset.		
	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	8.6	11.53	3.41	8.6	11.54	3.42	8.7	12.0	3.53
Greenwich ...	8.7	12.0	3.53	8.7	12.1	3.54	8.8	12.1	3.54
Wick ...	9.5	12.12	3.19	9.5	12.13	3.20	9.6	12.14	3.21
Valencia ...	8.51	12.42	4.33	8.51	12.43	4.34	8.52	12.44	4.35

## NOTES ON YESTERDAY'S WEATHER.

Temperature did not exceed 33° at Lerwick, but, as a rule the day was mild, Jersey touching 56°. Rain was general, sleet or snow in the extreme north. There was little or no 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. drizzle; threatening sky; v. visibility; unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

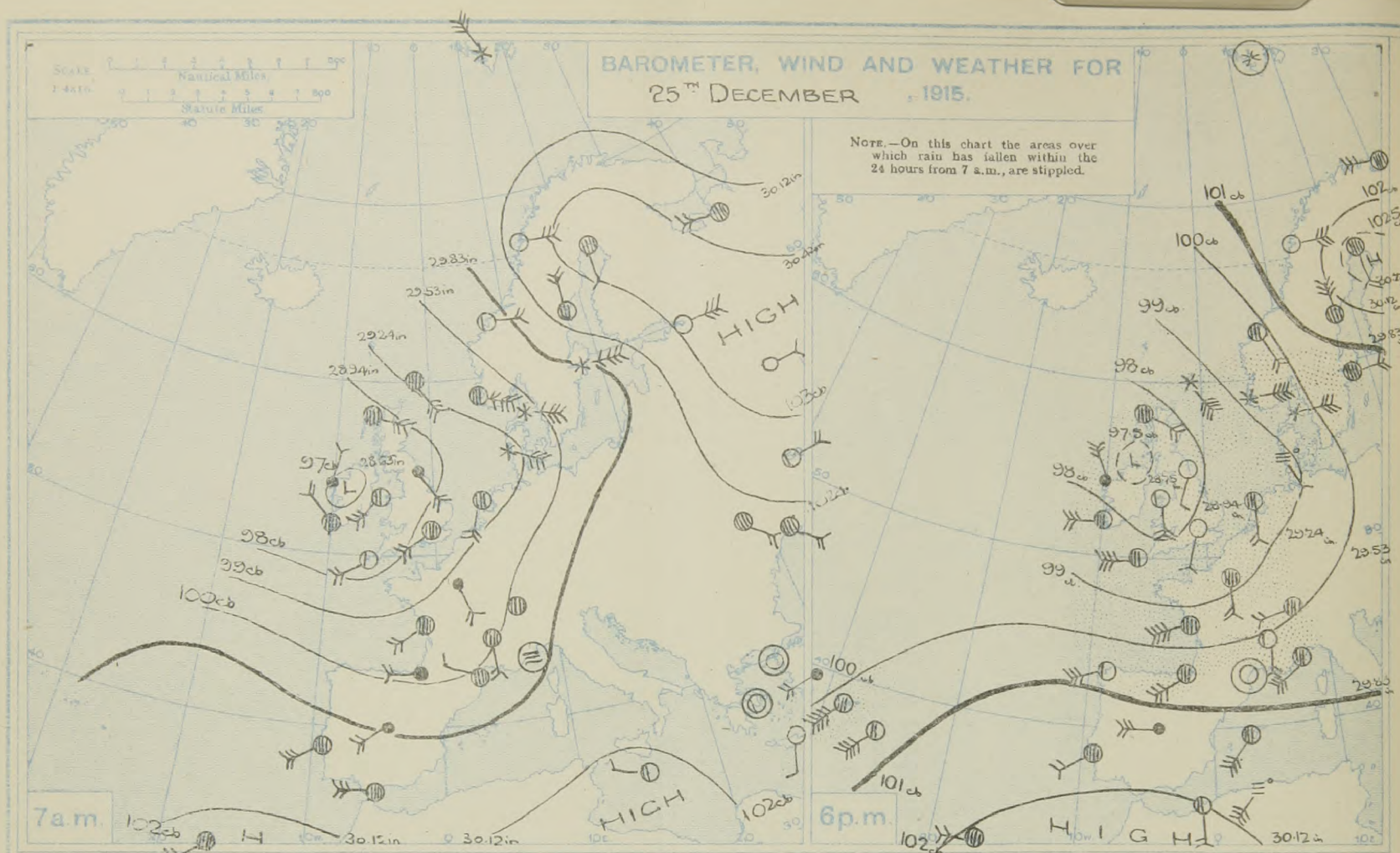
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STATIONS.	YESTERDAY EVENING					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barom. Milli- bars at M.S.L.	Change in 3 hours.	TEMP.		WIND.	Direc. of Upper 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	987.9	34	SE	8	spg	987.4	+2	43	+10	SSE	6	smg	5	17	43	39	spg	spg	spg	Hours.	
Deerness	981.0	40	ESE	6	ly	985.1	+2	43	+5	SSE	5	bc	5	4	44	39	spg	spg	spg	0.0	
Stornoway	976.4	41	ESE	4	o	983.0	+3	43	+2	SW	4	o	4	2	44	39	o	o.c.o	o.c.o	0.5	
Castlebay (Barra Isd.)	974.9	45	NE	4	r	985.5	+7	45	0	W	4	b	4	13	46	42	o	o	o	0.0	
Glasgow	978.8	42	S	1	b	987.4	+6	39	-3	SSE	1	og	4	4	46	36	spg	o.c.bcg	bcsp	0.2	
Esksdalemuir	979.8	49	SSW	1	c	988.5	+5	34	-9	o	0	o	4	4	44	33	o	o.c	bcsp	0.0	
Malin Head	974.0	44	S	3	omr	987.8	+5	43	-2	SW	4	omr	3	4	45	41	omr	om	bc	0.0	
Blackrod Point	977.3	43	NNW	5	omr	989.7	+4	45	+2	NNW	5	bcp	4	6	45	41	spg	ofe	bc	0.0	
Valencia	981.7	48	W	5	c	995.9	+3	46	-1	SW	5	bc	4	4	49	44	spg	o.c.bcg	o.c.b	0.0	
Roché's Point	980.3	46	W	3	bc	997.3	+2	44	-3	W	3	b	4	2	47	43	spg	opgbc	bc.b	0.0	
Birt Castle	970.6	45	SW	1	r	993.7	+2	42	-2	SW	2	c	4	4	45	40	spg	odg	o.c	0.0	
Donaghadee	976.4	46	SSW	2	ogm	988.4	+6	44	0	W	4	om	3	3	48	42	bcg	om	omr	0.0	
Liverpool (Bidston)	978.3	43	SE	1	m	988.7	+6	42	-2	WSW	7	og	5	2	45	42	b	o	ogp	3.2	
Holyhead	977.7	44	S	4	b	992.4	+5	46	0	W	5	o	4	8	48	43	bcsp	cp	bcsp	1.5	
Pembroke (St. Ann's)	975.2	48	W	5	ogp	995.8	+3	48	0	W	6	bcg	6	2	49	45	bcg	ogp	bcg	2.2	
Scilly (St. Mary's)	982.3	48	W	7	og	1002.0	+7	48	0	NNW	5	og	7	1	50	46	ogp	ogp	ogp	1.1	
Falmouth	981.7	47	W	6	og	1000.9	+7	46	+1	W	4	b	4	2	51	45	c.b.bcg	opgbc	bcsp	2.1	
Jersey (St. Aubin)	983.4	43	SSW	3	c	1003.2	+2	49	0	W	6	cp	4	3	53	47	cp.b	bc	ogp	4.8	
Portland Bill	981.7	47	W	2	og	998.4	+5	49	+2	W	6	bc	5	4	49	46	bc.o	cp	ogp	0.0	
Dungeness	983.5	45	WSW	4	cp	995.8	+7	47	-1	SW	6	og	5	4	49	44	bc.o	cp	bc.c	0.0	
Dover	984.6	44	SW	4	b	997.1	+10	45	-3	WSW	5	og	4	5	49	42	bcsp	opgbc	ogp	0.9	
Wick	978.4	42	SE	6	r	984.9	+2	42	+2	SSE	2	bc	4	4	44	38	omr	omr	omr	0.0	
Nairn	977.6	36	E	1	ogm	985.4	+2	35	-4	o	0	bc	1	1	41	31	omr	d.cgm	bcx	0.0	
Aberdeen	978.9	45	S	2	bcsp	987.9	+4	42	+3	SSW	2	c	5	5	45	35	ogp	omr	bc	0.0	
Leith	979.4	42	E	1	c	987.0	+3	40	-4	SE	1	SE	1	1	46	39	ogp	ogp	bc	0.0	
Tynemouth	979.4	43	SW	1	om	987.4	+4	39	-6	NNW	2	om	5	1	46	37	bc	bc	om	0.0	
Spurn Head	980.8	44	S	2	o	988.4	+2	42	-3	WSW	3	o	3	3	45	39	c	c.o	o	2.7	
Yarmouth	981.8	43	SW	3	bc	991.0	+4	43	-2	WSW	4	c	3	1	46	39	bcsp	bc	bcsp	0.5	
Clacton-on-Sea	982.9	43	SSW	4	bc	993.6	+5	44	0	W	3	bc	3	7	45	41	bcsp	ogpbc	bc	0.7	
Nottingham	980.1	42	S	1	o	990.6	+2	44	0	SW	3	SW	0	2	45	39	bcsp	ogp	ogp	0.1	
Bath	980.9	44	o	0	b	996.6	+2	47	-1	W	4	W	3	3	48	43	ogp	ogp	ogp	1.2	
St. Farnborough	982.5	42	SW	4	b	996.1	+8	44	-2	W	4	c	5	5	47	41	bcsp	ogp	ogp	0.5	
London (Kew Obsy.)	982.6	42	SSW	2	b	995.9	+9	45	-1	WSW	4	W	3	3	48	41	bcsp	ogp	ogp	0.5	
Spitsbergen	1016.4	-3	o	0	s	1018.9	+1	-4	+9	o	0	o	0	0	-5	-6	o	o	o	0.0	
Vardö	1014.4	23	NNW	5	o	1011.6	0	18	-7	SW	3	o	3	0	25	16	o	o	o	0.0	
Bodö	1014.7	12	E	6	o	1005.5	-3	12	0	E	7	o	2	0	12	10	o	o	o	0.0	
Christiansund	997.7	30	SSE	4	c	996.3	0	30	+3	SE	2	o	5	0	30	27	o	o	o	0.0	
Skudesnaes	991.3	30	ESE	8	s	993.5	+3	34	+6	SE	6	o	5	0	34	28	o	o	o	0.0	
Færder (Xaniafjord)	1003.1	21	ENE	7	o	1003.5	0	19	-4	NE	6	o	2	0	23	18	o	o	o	0.0	
The Scaw (Skagen)	997.7	28	E	6	s	998.9	+1	28	+1	E	5	o	5	1	28	25	o	o	o	0.0	
Blaavands Huk	984.9	36	SSE	2	m	991.4	+1	34	+4	ESE	2	o	2	7	34	28	o	o	o	0.0	
Haparanda	1027.9	-8	S	2	o	1022.1	-3	-13	-11	o	0	o	0	0	-4	-13	o	o	o	0.0	
Hernösand	1018.6	-4	N	6	o	1015.7	0	-2	+4	NNW	4	o	0	0	-2	-6	o	o	o	0.0	
Stockholm	1006.0	19	E	4	o	1007.3	+1	19	-2	NE	2	o	2	2	23	18	o	o	o	0.0	
Wisby	1001.1	28	E	6	o	1003.7	+2	25	+2	W	4	o	0	1	27	21	o	o	o	0.0	
Karlstad	1005.1	15	NE	2	s	1007.1	+1	18	-1	NNE	2	o	0	1	21	16	o	o	o	0.0	
Petrograd (5 a.m. G.M.T.)																				0.0	
The Helder	988.5	46	S	3	o	991.4	+4	41	-4	S	2	c	1	5	46	39	o	o	o	0.0	
C. Gris Nez	985.1	46	SSW	6	o	995.1	+7	48	-2	WSW	6	o	5	2	50	46	o	o	o	0.0	
La Hève	985.3	48	S	5	c	1002.1	+2	45	0	WSW	5	o	5	10	52	48	o	o	o	0.0	
Ushant																				0.0	
Brest (St. Mathieu)	988.0	51	NNW	0	bc	1004.3	+6	48	0	NNW	6	o	6	1	52	46	o	o	o	0.0	
Rochefort (Île d'Aix)	993.9	52	WSW	8	o	1012.7	+7	51	+1	W	7	o	3	3	54	46	o	o	o	0.0	
Biarritz	1004.4	50	W	5	b	1017.1	+3	48	-2	SSW	3	o	7	4	63	48	o	o	o	0.0	
Paris	987.9	45	S	3	r	1004.3	+8	45	+2	SW	3	o	7	5	52	45	o	o	o	0.0	
Belfort	998.9	43	WSW	3	o	1010.9	+2	43	-2	WSW	7	o	5	4	49	42	o	o	o	0.0	
Lyons	1002.1	46	SSW	3	b	1014.3	+2	46	-4	SW	3	o	1	53	45	o	o	o	0.0		
Nice	1002.8	50	W	6	c	1011.3	+3	50	+4	W	6	o	6	15	62	46	o	o	o	0.0	
Perpignan	1005.0	46	o	0	b	1018.9	+7	48	-1	W	2	o	0	0	57	37	o	o	o	0.0	
Sanguinaire																				0.0	
Corunna (8 a.m.)	1006.7	54	WSW	7	b	1018.6	+2	55	-2	SSW	6	o	5	2	55	50	o	o	o	0.0	
Madrid (8 a.m.)	1012.4	49	NNW	5	o	1025.6	+4	39	-8	SW	1	c	0	0	52	37	o	o	o	0.0	
Lisbon (9 a.m.)	1016.4	57	SW	3	o	1021.5	0	55	-3	SSE	3	o	0	0	59	55	o	o	o	0.0	
Gibraltar																				0.0	
Rome																				0.0	
Malta (8 a.m.)						1022.7	+2	57	+3	WSW	3	o	0	0	64	54	o	o	o	0.0	
Azores (Horta, 8 a.m.)	1000.6		SW	9	c	996.3	+1	54	0	NNW	7	o	6	26	64	54	o	o	o	0.0	
Madeira (Funchal)	1020.2	63	W	4	o	1020.0	0	63	-4	W	4	o	4	0	64	63	o	o	o	0.0	

GALES.  
Duration and Extreme Force  
in British Islands.  
Lerwick: 25<sup>th</sup> to 26<sup>th</sup> Dec.  
SE. 8 5 p.m. to 2.30 a.m.  
Scilly: 26<sup>th</sup> Dec.  
W.N.W. 8. Midnight to 2 a.m.  
Jersey: 25<sup>th</sup> to 26<sup>th</sup> Dec.  
SW. 8. 10 p.m. to early morning.





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

FORECAST DISTRICTS.		
	0	a } Moderating South-Easterly to Southerly breezes, b } veering Westerly; fair generally, some showers; mild.
	1	} Calms and light variable to moderate Westerly breezes; fair generally, some showers; mild.
	2	
	3	} Moderating South-Westerly to Westerly breezes; generally fair to fine, local showers; mild.
	4	
	5	} Same as Nos. 1 and 2.
	6	
	7	} Same as Nos. 3 to 5.
	8	
	9	} Strong Westerly winds, moderating; sea rough to moderate; showery; mild.
	10	
<b>STORM WARNINGS.</b> 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.



# GENERAL INFERENCE.

With the dispersal of the recent disturbance and the general increase of pressure, fairer and quieter conditions will now prevail.



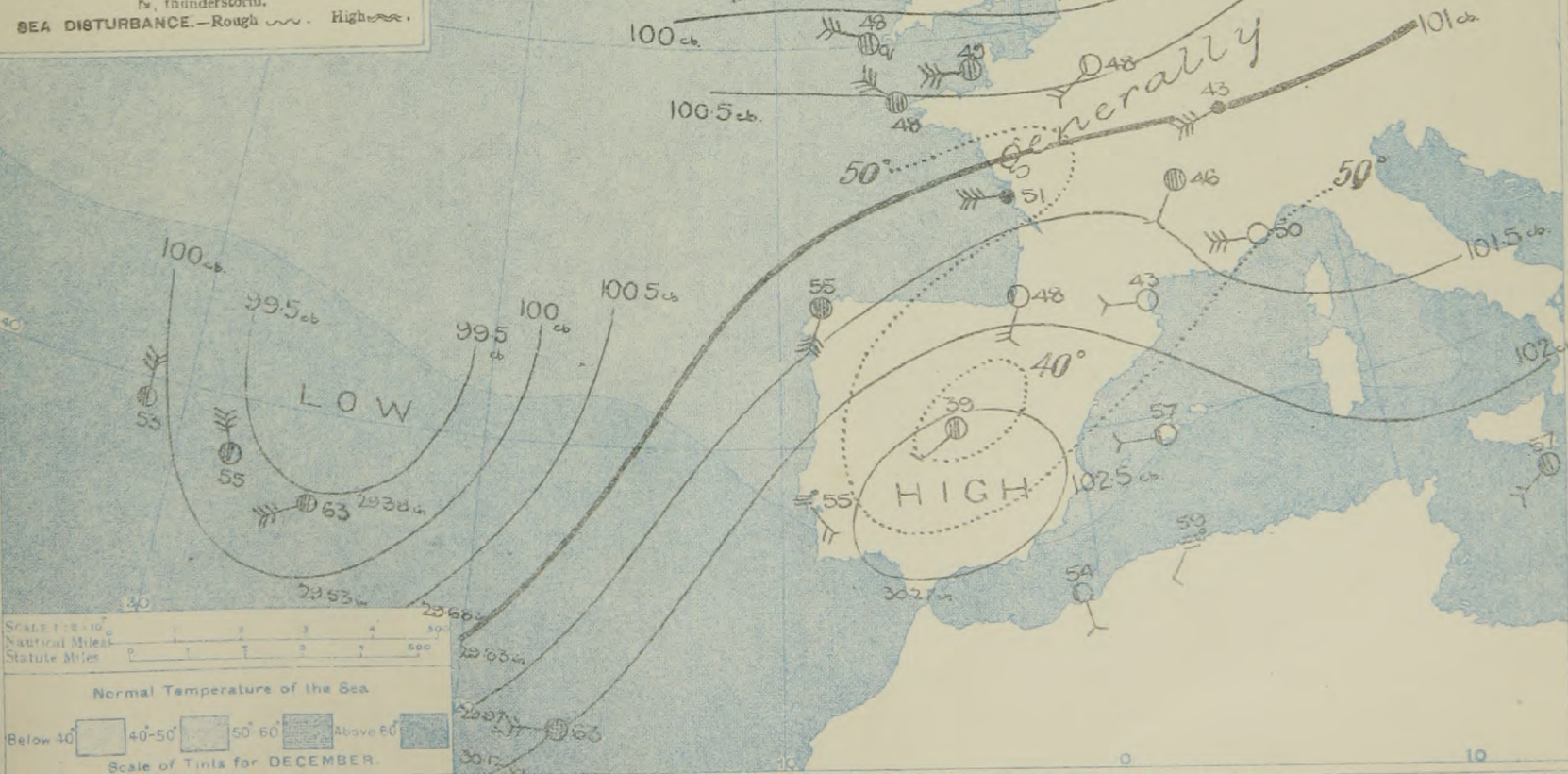
## EXPLANATION.

**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 ~~~. High ~~~.

inches  
31

30

29





Sunday, 26<sup>th</sup> December, 1915.

	STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
			Max.	Min.	Forenoon.	Afternoon.	
Scotland.	{ Oban ... .. Banff ... .. Carnoustie ... .. St. Andrews ... ..	mm. § — 9	° F. 47 45	° F. 42 36	p.c. d.o. do	r.o. d.o.b.c.	Hr. 0.0 0.0
Engl. N.E.	{ Harrogate ... .. Skegness ... ..	3 1	44	40	b.c., b.c.	c.o.d.	0.9
Engl. N.W.	{ Morecambe ... .. Blackpool ... .. Southport ... ..	5 — —	46 48	40 41	b.c. c.b.	b.c., c. b.c., o.	3.4 3.5
Midlands.	{ Buxton ... .. Leamington Spa ... .. Malvern ... .. Ross-on-Wye ... ..	4 8  6	42 46 48	39 41 43	b.c. b.c., o.e. r	c. or r	0.5 0.0 0.0
Wales.	{ Rhyl ... .. Colwyn Bay ... .. Llandudno ... .. Aberystwyth ... .. Tenby ... ..	5   6	48   47	42   43	b.c., c.   r., o.c.	c.p., c.   c., b.c.	2.2   2.0
England, E.	{ Cromer ... .. Lowestoft ... .. Felixstowe ... .. Walton-on-Naze ... .. Southend-on-Sea ... ..	3 5 4	45 46 49	42 43 42	b.c., or b.c., or, c.p. or, p.	b.c. b.c., c.p.b. o., b.c., do	0.7 0.9 1.2
England, S.E.	{ Tunbridge Wells ... .. Margate ... .. Ramsgate ... .. Hastings ... .. Bexhill-on-Sea ... .. Eastbourne ... .. Seaford ... .. Brighton ... .. Worthing ... .. Littlehampton ... .. Bognor ... .. Southsea ... .. Bournemouth ... ..	8 11 11  19 11 11 10 11 14 15	49 47 50  50 50 50 48 49 47	46 43 44  45 43 45 43 45 43	c.p. r or, b.c.  or, b.c. n., c. n., o., c., b.c. n., o., c. r., b.c. r	d.p. c. or, o.  o.p.g. c., r c.n. o.g.r. or b.c., c.	0. 0.4 1.3  0.6 1.5 1.6 1.6 1.2 1.3 D.
England, S.W.	{ Weymouth ... .. Torquay ... .. Paignton ... .. Falmouth ... .. Penzance ... .. Newquay ... .. Ilfracombe ... .. Weston-super-Mare ... ..	12 12 13 5  6	49 51 52 51  48	45 42 43 44  44	or, c.p. p., o.c. or, b.c. c., b., b.c.  p.c., b.c.	p., b.c., e. c., o.p.r. b.c. c.p., or, c.  b.c., c.p.	0.6 1.8 2.7 2.1  1.0

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.) ...	%	%	Hr.	° F.	° F.	° F.	mm. §	ct.	rk.	bc.	Dublin to 4 p.m.	mm. §	° F.	° F.	° F.				Hr.	
City (Bunhill Row) ...	84	89	1.0	49	40	31	4				Darwin to 9 p.m.	6	44	38	31	ov. c	bc. o	ou	0.0	
Westminster (St. James's Pk.) ...	*	*	0.2	*	*	*	*		*	*	Manchester	3	47	42	*	ov. c, bc	bc. o	ov. o	0.3	
Camden Sq. (Brit. Rainfall)	91	88	0.5	50	43	34	2	bc	od. r	bc	Birmingham "									
Hampstead (Reservoir) ...	*	84	0.3	48	42	36	3	-	-	*	Oxford to 8 p.m.	*	46	40	34	o	o. ov	ov. o		
Richmond Park ...	*	84	0.1	47	40	29	4	col. b.	bc. r.	bc.	Teignmouth to 9 "									
Kew. (See front page.)	*	*	1.0	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.)	85	82	0.4	152 joules	5.5 Milliwatts.		26 Milliwatts.													
											S. Kensington (Museum Grounds to 6 p.m.)	12	54	43	32	bc	mr. d. p.	b	3.0	

26 <sup>th</sup> 27 <sup>th</sup> Dec <sup>r</sup>	Sunrise.	Noon.	Sunset.
Yarmouth ...	G.M.T. 8 <sup>h</sup> 6 <sup>m</sup>	G.M.T. 11 <sup>h</sup> 54 <sup>m</sup>	G.M.T. 3 <sup>h</sup> 42 <sup>m</sup>
Greenwich ...	8 <sup>h</sup> 7 <sup>m</sup>	11 <sup>h</sup> 54 <sup>m</sup>	3 <sup>h</sup> 54 <sup>m</sup>
Wick ...	8 <sup>h</sup> 8 <sup>m</sup>	12 <sup>h</sup> 1 <sup>m</sup>	3 <sup>h</sup> 53 <sup>m</sup>
Valencia ...	9 <sup>h</sup> 5 <sup>m</sup>	12 <sup>h</sup> 13 <sup>m</sup>	3 <sup>h</sup> 42 <sup>m</sup>

Temperature was again considerably above the average, though not as high as on the previous day. A little rain fell at all stations. Jersey had 4.8 hrs of sunshine, but generally the records were very small. A gale was felt in Shetland, Scilly and Jersey.

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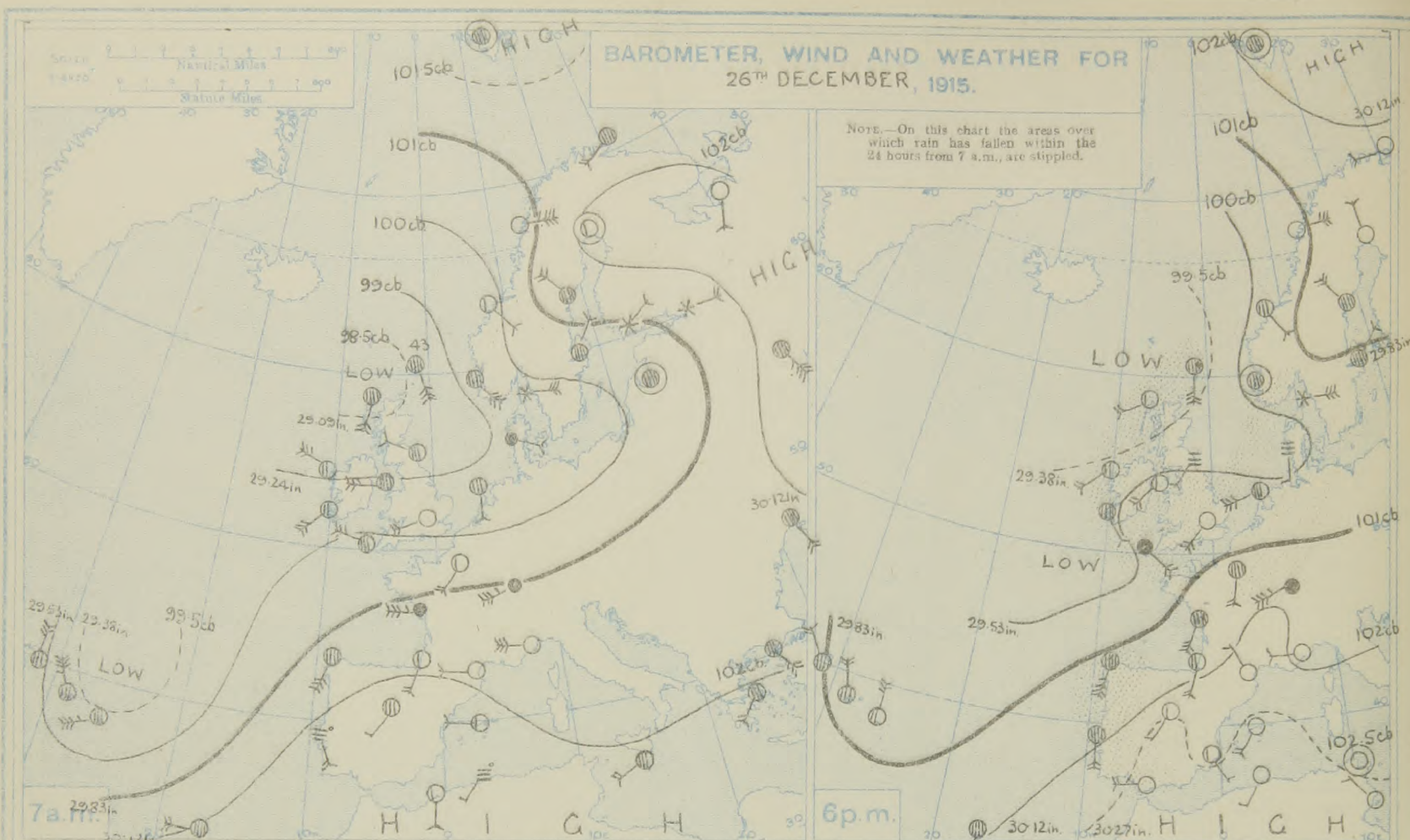


# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 361. MONDAY, 27<sup>th</sup> December, 1915.

	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 5 hours.	Dry Bulb.	Change in 24 hours.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
				Direc.	Force 0-19.						Direc.	Force 0-12.					Max.	Min.	Morning.	Afternoon.	Night.		
BRITISH ISLANDS.	Lerwick	992.6	42	S	5	om	999.1	+	39	-4	NNW	2	-	omd	2	1	44	33	omg	omg	bcs	Hours.	
	Deerness	992.2	42	SSW	3	bc	997.9	-2	39	-4	NNE	4	-	bc	3	1	44	36	bc.c	om.c.bc	bc	0.4	
	Stornoway	992.9	37	WSW	3	bc	996.5	-2	34	-9	N	2	-	bc	2	0.3	44	32	od.p.bc	bc	b.bc	0.9	
	Castletown (Barrisd.)	993.7	42	WNW	3	bcp	993.4	-4	44	-1	E	4	-	o	4	4	46	37	b.op.b	bcp	bcp.b.o	1.7	
	Glasgow	997.1	42	SW	1	o	994.7	-6	38	-1	ENE	2	-	o	*	2	44	36	op.cz	c.bcz	opm.ay	2.4	
	Eskdalemuir	998.5	41	SW	3	o	994.2	-8	38	+4	ENE	4	-	o	*	1	42	33	od	c.o	o	1.1	
	Malin Head	994.9	42	SSW	3	bcm	988.2	-5	42	-1	SE	5	E	bcg	4	1	46	38	cm	bcm	bcm	2.6	
	Blacksod Point	995.9	43	SW	3	bc	979.4	-15	39	-6	NNE	8	NE	omr	5	8	46	37	bcp	bcp	b.c. omr	*	
	Valencia	997.3	44	SE	2	o	971.2	-11	51	+5	SSE	5	-	or	*	18	53	41	bc.c	c.o	od.or	0.7	
	Roche's Point	1002.2	47	SW	3	o	976.2	*	49	+8	SSW	5	-	o	6	26	51	42	b	c.o	or.o	*	
	Birr Castle	998.4	39	S	1	c	978.6	*	50	+8	SE	1	-	r	*	10	50	37	c	c	or	5.0	
	Donaghadee	997.4	43	WSW	4	cm	988.3	-10	41	-3	SE	6	-	omr	5	1	46	37	bcm	cm	bcm.cm	*	
	Liverpool (Bidston)	1001.3	41	S	3	b	990.5	-9	42	0	E	4	-	o	3	8	47	39	py.bc	b	b.or	3.1	
	Holyhead	1000.4	45	SW	4	b	984.9	-11	51	+5	S	5	-	omr	4	15	51	42	c.c.bc	bc	b.od.rm	5.3	
	Pembroke (St. Ann's)	1002.1	48	SW	4	o	983.4	-5	52	+4	SSW	9	-	ogp	7	12	52	47	bcg/p	bcg/p	og.p.gp	2.4	
	Scilly (St. Mary's)	1000.3	45	SE	4	omr	987.2	-9	51	+3	SW	9	SW	og	8	10	54	45	c.og	omr	omr.og	0.2	
	Falmouth	1002.7	45	S	3	r	991.5	-6	53	+7	SW	8	-	o	*	26	54	44	bcp	bc.c.or	r.og.py	1.1	
	Jersey (St. Aubin)	1008.4	47	SW	4	op	1001.7	*	57	+8	SSW	5	-	ogu	4	7	57	46	c.b.c.o	op	or.ogp	1.1	
	Portland Bill	1005.4	48	SW	5	ogp	996.2	-5	50	+1	SSW	7	-	ogp	6	24	50	47	bc	c.or	ogp	*	
	Dungeness	1007.1	47	SW	4	cp	1000.2	0	52	+5	S	6	S	org	5	16	50	46	c.b	c.cp	cp.bcp	*	
Dover	1007.7	47	WSW	5	c	1002.8	-2	52	+7	S	8	SW	o	6	18	52	43	b	b.bc	c.ogp	5.0		
NORTHERN EUROPE.	Wick	992.3	39	SSE	2	bc	998.2	0	31	-11	-	0	-	b	3	1	43	29	bcm	bcm.b	bcm	*	
	Nairn	994.4	38	N	1	c	997.5	*	29	-6	-	0	-	bc	1	1	43	27	bc.f	C.bc	C.bcx	0.2	
	Aberdeen	995.3	40	SSW	2	c	998.1	-1	33	-9	W	2	S	ox	3	-	42	31	b.c.bm	b.bc	c.b.bcx	0.9	
	Leith	996.3	41	W	1	bc	995.2	-3	40	0	SE	1	-	o	3	-	46	36	c.o.bc	bc	o	*	
	Tynemouth	998.3	42	SW	2	f	997.2	-3	39	0	SE	2	-	omr	4	-	44	37	cm	bcm	bcm	*	
	Spurn Head	1001.8	43	WNW	4	bcg	997.4	-6	43	+1	SW	6	-	ogp	6	4	45	39	c.b	bcg	bc.opr	0.2	
	Yarmouth	1004.2	44	W	3	b	999.6	-4	45	+2	S	4	-	or	4	4	49	40	cp	bc	bc.or	2.5	
	Clacton-on-Sea	1005.8	44	W	3	bc	1000.8	-2	47	+3	SSW	4	-	o	3	4	48	43	bc	bc	bc.ogp	4.9	
	Nottingham	1003.7	39	W	3	b	995.0	*	45	+10	SE	1	SE	r	*	7	48	37	op.c.b	b	o	2.7	
	Bath	1005.1	46	W	1	o	994.6	*	55	+8	SW	5	SW	r	*	10	56	43	b.b.c.p	bc.o	ogp	3.0	
	St. Farnborough	1006.0	45	SW	3	o	999.0	-3	52	+8	SW	6	-	or	*	14	53	43	bc	bc.o.c	r	4.3	
	London (Kew Obs.)	1006.3	45	SW	2	b	999.5	-3	53	+8	SW	5	-	or	*	9	53	44	b.bc.bbc	bc.our.bc	b.or	4.2	
	FRANCE, &c.	Spitsbergen	1020.4	-4	-	0	o	1018.3	0	-15	-11	-	0	*	b	*	-	-4	-18	GALES.			
		Vardö	1017.5	14	W	2	b	1020.4	0	10	-8	SW	2	-	b	2	*	18	10	Duration and Extreme Force			
		Bodö	1006.0	19	E	5	b	1005.6	-1	21	-9	E	4	-	b	2	-	21	17	in British Islands.			
Christiansund		1000.2	34	SE	2	c	1001.6	0	36	-6	SE	3	-	c	3	-	36	30	Blacksod Point: 27 rh.				
Skudesnaes		1000.2	36	-	0	o	1004.6	0	34	0	SSE	3	-	o	3	?	36	32	7 h. NNE 8.				
Færder (X'ianla Fjord)		1007.3	19	NE	6	S	1011.7	+2	19	0	NE	4	-	o	2	?	21	18	Roche's Point: 27 rh.				
The Scaw (Skagen)		1002.1	27	E	6	S	1008.7	+3	23	-5	E	4	-	o	4	1	28	23	Between 24 h. + 7 h. S. 8.				
Blaavands Huk		997.7	36	S	1	f	1005.9	+3	37	+3	W	2	-	m	2	5	39	32	Holyhead: 27 rh.				
Haparanda		1019.7	-22	N	2	b	1021.5	0	-17	-4	ENE	2	-	c	*	-	-11	-22	Sh. W. 8.				
Hernösand		1016.6	-2	NW	4	o	1019.3	+2	-2	0	N	2	-	o	*	?	-2	-4	gust 22 metres per sec.				
SOUTHERN EUROPE.	Stockholm	1009.2	16	NE	2	o	1012.3	+1	12	-7	NE	4	-	o	*	Trace	19	10	Pembroke: 27 rh.				
	Wisby	1003.8	37	ENE	6	o	1007.5	+3	25	0	NE	4	-	o	*	7	37	23	4 h. SSW 8.				
	Karlstad	1009.0	14	NE	2	o	1013.2	+4	10	-8	-	0	-	bc	*	1	19	9	Scilly: 27 rh.				
	Petrograd	(9 a.m. G.M.T.)																	Sh. - 7 h. SW. 8.				
	The Helder	1003.1	46	WSW	6	c	1004.8	-3	43	+2	SSE	3	-	o	2	1	46	41	Ext. SW. 9 at 7 h.				
	C. Gris Nez	1007.3	48	W	6	c	1003.7	-1	49	+1	SSW	7	-	c	5	11	50	45	Falmouth: 27 rh.				
	La Hève	1008.7	45	SW	5	o	1005.2	*	51	+5	SSW	5	-	o	5	2	52	46	7 h. SW. 8.				
	Ushant																						
	Brest (St. Mathieu)	1003.9	51	S	7	r	998.4	-5	52	+4	SSW	8	-	f	8	2	54	48					
	Rochefort (Ile d'Aix)	1014.7	52	SSW	5	o	1012.8	0	49	-2	S	6	-	c	*	-	54	46					
AZORES &c.	Biarritz	1017.3	57	SSW	3	bc	1017.4	+1	59	+11	SSW	4	-	o	4	-	59	48					
	Paris	1013.7	46	S	2	o	1012.6	+1	48	0	SSW	4	-	o	*	2	52	45					
	Belfort	1019.0	42	WSW	7	r	1014.9	*	45	+2	-	0	-	r	*	2	46	38					
	Lyons	1021.6	46	SW	1	c	1021.9	*	42	-4	S	1	-	b	*	-	53	39					
	Nice	1018.1	47	W	2	b	1023.8	+4	44	-6	-	0	-	b	*	-	57	41					
	Perpignan	1022.4	45	NW	1	b	1022.7	0	34	-9	NW	1	-	b	*	-	57	34					
	Sanguinaire	*	58	W	4	b	*	*	50	-	E	3	-	b	*	4	-	63	48				
	Corunna (7 a.m.)	1011.7	59	SSW	7	o	1015.3	+10	54	-1	WSW	3	-	f	5	21	59	54					
	Madrid (8 a.m.)	1025.0	50	SW	1	b	1027.0	+3	45	+6	-	0	-	o	*	2	50	39					
	Lisbon (9 a.m.)	1019.8	59	S	4	o	1020.2	0	59	+4	SSW	4	-	o	?	3	61	55					
SOUTHERN EUROPE.	Gibraltar	1026.1	54	W	3	b	1025.7	*	48	-	W	1	-	b	*	2	65	47					
	Rome																						
Malta (8 a.m.)	*	*	*	*	*	1027.7	+3	57	0	NW	4	-	b	*	3	-	64	57					
AZORES &c.	Azores (Horta, 8 a.m.)	1008.7	*	NNW	4	c	1013.2	0	48	-6	N	4	-	o	2	2	57	48					
	Madeira (Funchal)	1019.0	64	SSW	5	o	1016.0	-3	64	+1	S	5	SW	o	5	-	64	63					

\* Information for these columns not usually received.





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.

Cones hoisted last evening & this morning.

Western Channel and Bay

- 0 } Wind becoming South-Easterly and freshening, squally, strong to gale and veering Southerly; fair to dull and rainy; mild.
- 1 }
- 2 } Squally Southerly and South-Easterly winds, strong to gale; dull, rainy, fair intervals later; mild.
- 3 }
- 4 } Same as Nos. 0 and 1
- 5 }
- 6 } Same as Nos. 2 to 3.
- 7 } Same as Nos. 2 to 3.
- 8 } Squally South-Easterly to Southerly strong winds to gales; dull, rainy, misty; mild.
- 9 } Squally Southerly to South-Easterly strong winds to gales; dull, misty, rainy, mild.
- 10 }
- 11 } Squally South-Westerly strong winds and gales, high sea and swell; rain, mist or fog; mild.

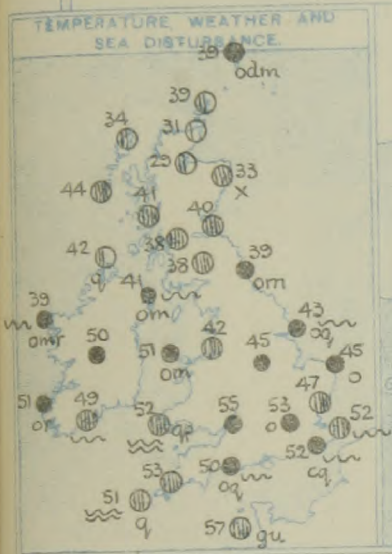
FURTHER OUTLOOK.



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

## GENERAL INFERENCE.

The deep depression off Ireland will maintain the very disturbed conditions over the country generally.



## 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.

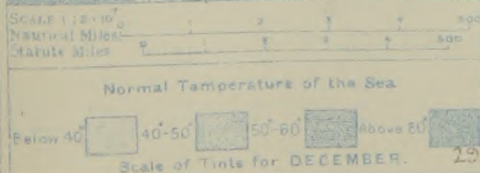
**WEATHER.**—Shown by the following symbols:—  
 ○ clear sky. ○ sky & clouded. ○ sky & clouded.  
 ○ sky & clouded. ○ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist. T, thunder.  
 R, thunderstorm.

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

inches  
—31

30

29





## DAILY WEATHER REPORT.

Monday, 27th December, 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.	
	20th.	21st.	22nd.	23rd.	24th.	25th.	26th.	27th.	28th.	29th.	30th.	31st.	1st.	2nd.	3rd.	4th.	5th.	6th.	7th.	8th.
Heights in Kilometres.	2	1.9	1	0.5	0															
	+5	-8	+9	-4																
	+7	-5	+13	-6	+21	+4														
	+6	-8	+12	-5	+14	+5														
	+2	0	+5	0	+5	+5														

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

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.	
Scotland.	mm. & °F.	°F.	°F.			Hr.
Oban ...	4	46	43	p.b.c	r.o	1.4
Banff ...	-	42	36	b.c	c.b.c	1.0
Carnoustie ...						
St. Andrews ...						
England, N.E.						
Harrogate ...	4	45	35	o.b.c	b.c.p.b	1.3
Skegness ...	2	47	38	o.b.c	b.c.b	0.4
England, N.W.						
Morecambe ...						
Blackpool ...	4	46	37	o.b.c	o.b.r.b	2.0
Southport ...	1	46	37	o.r.c	c.b	2.9
Midlands.						
Buxton ...	10	43	36	r.b.c	b.c	1.3
Leamington Spa ...						
Malvern ...						
Ross-on-Wye ...	-	51	40	b.c	c.o	3.0
Wales.						
Rhyl ...	5	50	37	b.c	b.c	4.4
Colwyn Bay ...	6	48	38	b.c	b.c	3.3
Llandudno ...						
Aberystwyth ...	-	47	42	r.o.c	c.b.c	2.5
Tenby ...						
England, E.						
Cromer ...						
Lowestoft ...						
Felixstowe ...	0.2	49	41	b.c.b	b.c.b	5.3
Walton-on-Naze ...						
Southend-on-Sea ...	-	49	40	b	b.b.c	5.0
England, S.E.						
Tunbridge Wells ...						
Margate ...	0.2	51	43	b.c	c	4.0
Ramsgate ...	0.3	50	42	b.c	b.c	5.2
Hastings ...	2	51	45	o.b	b.c.o	4.3
Bexhill-on-Sea ...						
Eastbourne ...	5	50	42	b	b.o.r	3.6
Seaford ...						
Brighton ...	4	49	45	b.b.c	c.o.r.b.c	4.3
Worthing ...	1	50	44	b.b.c	p.c	4.7
Littlehampton ...	11	49	43	b.c.b	b.o.s	5.1
Bognor ...						
Southsea ...	-	51	43	b	b.c	5.0
Bournemouth ...	-	52	42	b	b.c.o	4.9
England, S.W.						
Weymouth ...	9	52	43	b	b.b.c.p.o	4.9
Torquay ...	6	50	43	b	b.c.o.p	4.0
Paignton ...						
Falmouth ...	6	49	44	b.c.p	o.p.c.o.r	1.1
Penzance ...						
Newquay ...	2	50	2	b.c	o.r	1.2
Ilfracombe ...	3	50	44	o.p.c.b.c	b.c.c	2.0
Weston-super-Mare ...	6	49	40	b.c.b	b.b.c	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.
Greenwich (Royal Obs.) ...	75	89	4.4	54	43	38	9	b.c	b.c
City (Banhill Row) ...	*	*	1.8	*	*	*	*	*	*
Westminster (St. James's Pk.)			3.4						
Camden Sq. (Brit. Rainfall)									
Hampstead (Reservoir) ...	-	89	1.9	54	44	39	11	-	*
Richmond Park ...	*	90	3.4	52	41	30	10	b.c.o.r	o.r
Kew. (See front page.)									
(Greenwich and Camden Square air temperatures are in Glaisher screens.)									
S. Kensington (Roof of M.O.)	78	81	3.7	Vertical Component of Solar Radiation per Square Centimetre during Yesterday.					
				Total.	Average Rate.	Max. Rate.			
				Joules	Milliwatts.	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.	5	45	41	37	o.r.b.	b
Darwen to 9 p.m.						
Manchester "						
Birmingham "	6	45	39	34	r.	o.r
Oxford to 8 p.m.	*	49	40	37	c.b	b.c
Teignmouth to 9 "						
Plymouth "						
S. Kensington (Museum Grounds to 6 p.m.)	12	50	46	32	o.m.d.	b.c

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

... 27th-28th Dec. 1915.	Sunrise.			Noon.			Sunset.		
	G.M.T.	C.M.T.	G.M.T.	G.M.T.	C.M.T.	G.M.T.	G.M.T.	C.M.T.	G.M.T.
Yarmouth ...	8.6	11.54	3.43	8.6	11.55	3.44	8.6	11.55	3.44
Greenwich ...	8.8	12.1	3.55	8.8	12.2	3.56	8.8	12.2	3.56
Wick ...	4.5	12.13	3.21	4.5	12.14	3.22	4.5	12.14	3.22
Valencia ...	6.51	12.42	4.34	6.51	12.43	4.35	6.51	12.43	4.35

## NOTES ON YESTERDAY'S WEATHER.

Fine, mild weather ruled during the day, with considerable sunshine in many places. Disturbed wet conditions followed, 28 mm. of rain at Roche's Point and Falmouth. A Southerly gale spread to various parts of England and Ireland during the night.

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. heat frost; z. dust, haze, or smoke.

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## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 362.

Tuesday,  
28<sup>th</sup> December, 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 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Direc.	Force 0-12.				Dry Bulb.	Change in 24 hours.						Max.	Min.	Morning.	Afternoon.	Night.		
Lerwick ...	999.4	40	NE	6	omg	1008.4	+4	39	0	NE	6	-	cg	5	4	40	37	omp	omg	o. cg	Hours.
Deerness ...	994.6	39	NE	5	f	1006.8	+	39	0	NE	5	-	go	4	7	41	38	bc. c. o	op. o	p. r. o	0.0
Stornoway ...	995.7	39	NE	6	org	1008.6	+6	39	+5	NE	6	-	bcg	5	5	42	34	bc. ofg	org	Op. bcg	0.0
Castlebay (Barra Isd.)	992.5	44	NE	5	o	1006.9	+6	43	+1	NNE	5	-	o	5	0.3	44	39	o	o	o	0.0
Glasgow ...	985.0	38	NE	5	gg	1005.5	+8	39	+1	N	1	-	ogd	*	12	41	36	or. r. sg.	r. r. sg. o	o. s. o. dp	0.0
Eskdalemuir ...	981.5	40	NNW	4	c	1004.9	+7	37	-1	NW	3	-	o	*	13	42	35	a. or	or. od. o	c. od. og	0.0
Malin Head ...	987.5	40	NNE	8	omgr	1005.1	+4	43	+1	ENE	5	-	omr	6	12	45	37	omgr	omgr	om	0.0
Blacksod Point																					
Valencia ...	1001.3	47	W	6	c	1008.1	+1	38	-13	E	2	-	b	4	8	51	38	omr	cp	cp. o. c. b	0.0
Roche's Point	998.8	47	W	5	c	1009.0	+	38	-11	NE	1	-	b	5	2	50	36	r. o. c	bc. c	c. b	*
Birr Castle ...	992.2	41	W	5	r	1008.0	+	36	-14	SW	1	-	c	*	9	51	35	or. c	c. or	or. c	0.0
Donaghadee ...	988.5	44	ENE	4	cg	1004.8	+6	43	+2	N	2	-	ogm	3	10	48	40	omrg	omr. cm	ogm. or	*
Liverpool (Bidston)	983.2	45	SW	6	g	1005.7	+7	42	0	WSW	3	-	og	3	5	51	40	org	ogp	og. r	0.9
Holyhead ...	984.1	48	W	6	ogm	1005.4	+4	44	-7	WNW	5	-	cg	4	5	52	42	ogp	ogmb	ogp	0.0
Pembroke (St. Ann's)																					
Scilly (St. Mary's)	1004.1	50	W	8	cmg	1009.8	+1	49	-2	W	1	-	om	5	-	51	47	cmg	c. omg	cmg	0.8
Falmouth ...	1004.1	50	WSW	9	bcg	1010.6	0	44	+9	WSW	2	-	o	*	-	53	44	cg	cg	cg. o	0.2
Jersey (St. Aubin)	1009.0	50	SW	5	b	1012.2	+	49	-8	SW	3	-	o	3	Trace	57	48	op. b	b	b. o	4.3
Portland Bill ...	1001.7	51	WSW	9	c	1010.1	+2	49	-1	W	4	W	b	5	7	52	48	r. o	c	c. bc	*
Dungeness ...	999.8	49	S	9	cfq	1009.8	+4	47	-5	SW	4	SW	c	4	-	53	46	bcg	bcg	bcg. c	*
Dover ...	1002.2	50	SW	8	b	1009.9	+3	44	-8	SW	4	-	bc	2	0.3	53	44	o. c. bc	bc. c. bc	bc. c. b	0.1
Wick ...	994.3	43	E	3	o	1006.2	+5	41	+10	NNE	5	-	o	4	2	43	30	bc. o	opd	ompd	*
Nairn ...	991.4	38	E	2	odu	1006.6	+	39	+10	NE	5	-	ouq	4	7	40	28	mc. b. g	dgo	q. g. r. u	0.0
Aberdeen ...	988.0	41	NE	7	r	1004.8	+8	39	+6	N	3	-	o	5	12	42	32	o. c. or	org	org	0.0
Leith ...	982.2	40	NE	4	r	1004.7	+4	41	+1	NE	2	-	o	5	13	42	39	r	r	r. o. o	*
Tynemouth ...	979.9	44	SE	2	omd	1001.7	+10	40	+1	NW	4	-	omr	5	9	47	38	omgr	omgr	omr	*
Spurn Head ...	984.0	47	W	7	r	1002.0	+6	42	-1	W	6	-	cg	6	7	50	41	or. bc	ogp	ogp	2.6
Yarmouth ...	992.5	49	SW	8	b	1004.5	+8	45	0	W	4	-	bc	3	2	57	44	omr. bc	bc. b	bcg. p	1.0
Clacton-on-Sea	997.2	49	SW	6	c	1007.9	+4	44	-3	W	3	W	bc	3	-	52	44	og. bc	bc. c	cg. bc	1.6
Nottingham ...	986.4	47	SW	7	r	1005.2	+	43	-2	W	3	W	c	*	6	56	43	r. o. bc	c. or	r. o	1.9
Bath ...	997.1	50	SW	7	c	1009.1	+	46	-9	SW	2	W	o	*	1	57	46	pg. c. bc	pg. c. bc	op. bc. o	0.5
Sth Farnborough	996.5	49	SW	10	o	1009.2	+3	43	-9	WSW	3	-	bc	*	6	53	43	rg. o. c	c. bc. c	o. c. bc	0.3
London (Kew Obsy.)	997.6	50	SW	7	b	1009.6	+4	45	-8	SW	4	SW	c	*	5	54	44	or. o	o. c. c. b	b. c. o. c	0.2
Spitsbergen ...	1007.9	3	S	1	S	999.7	-4	9	+24	NW	6	-	S	*	*	9	-18				
Vardö ...	1015.0	16	SW	3	o	1014.1	-3	14	+4	SW	6	-	o	4	*	16	5				
Bodö ...	1003.1	21	E	4	b	1000.8	-3	25	+4	E	6	-	b	2	-	25	14				
Christiansund	1001.6	37	-	0	S	1005.0	+3	36	0	-	0	-	S	3	5	37	34				
Skudesnaes ...	998.6	36	SE	4	o	999.8	+3	36	+2	E	4	-	o	4	-	36	32				
Færder (Xania Fjord)	1009.6	19	ESE	5	o	1003.0	0	23	+4	NE	7	-	S	3	-	23	19				
The Scaw (Skagen)	1006.7	27	ESE	4	o	996.4	0	32	+9	E	5	-	o	5	-	32	23				
Blaavands Huk	997.2	37	ESE	4	r	990.0	-2	37	0	-	0	-	f	2	12	39	32				
Haparanda ...																					
Hernösand ...																					
Stockholm ...																					
Wisby ...																					
Karlstad ...																					
Petrograd (5 a.m. G.M.T.)																					
The Helder ...	998.0	46	SSW	8	b	1002.6	+7	46	+3	WSW	8	-	o	7	5	48	43				
C. Gris Nez ...	1001.7	50	SW	8	bc	1009.5	+4	49	0	WSW	7	-	b	7	10	52	48				
La Hève ...	?	47	S	7	o	1012.7	+	43	-8	SSW	5	-	bc	5	-	52	39				
Ushant ...																					
Brest (St. Mathieu)	1012.3	51	WSW	7	c	1011.5	-?	50	-2	SE	4	-	f	6	-	55	48				
Rochefort (Ile d'Aix)	1017.5	64	WSW	3	o	1014.9	0	46	-1	? SSE	4	-	o	*	-	64	46				
Biarritz ...	1017.5	59	SSW	2	c	1013.7	-2	59	0	SSW	3	-	c	2	-	64	55				
Paris ...	1013.6	50	SSW	3	bc	1015.7	0	43	-5	SSW	2	-	b	*	-	57	43				
Belfort ...	1018.0	46	W	4	b	1016.9	+	46	+1	W	4	-	c	*	-	52	46				
Lyons ...	1021.3	47	SSW	1	b	1021.3	+	41	-1	W	0	-	c	*	-	54	36				
Nice ...																					
Perpignan ...	1022.9	45	-	0	o	1021.0	-1	43	+9	-	0	-	o	*	-	54	39				
Sanguinaire ...	*	57	S	2	bc	*	+	50	0	E	2	-	o	4	-	63	48				
Corunna (7 a.m.)	1014.4	59	SSW	8	o	1008.7	-3	55	+1	S	6	-	o	4	22	59	55				
Madrid (8 a.m.)	1025.2	52	-	0	o	1021.2	-2	41	-4	N	2	-	c	*	-	52	39				
Lisbon (9 a.m.)																					
Gibraltar ...	1023.3	57	SE	4	b	1017.6	+	57	+9	E	5	-	o	3	-	60	47				
Rome ...																					
Malta (8 a.m.)	*	*	*	*	*	1027.9	+1	54	-3	WNW	2	-	c	1	-	61	54				
Azores (Horta, 8 a.m.)	1014.7	6	N	4	bc	1016.9	+	63	+5	NW	3	-	o	3	1	57	50				
Madeira (Funchal)	1008.8	64	S	5	o	1009.5	+1	57	-7	?	?	-	bc	?	8	64	55				

South Farnborough 7.53 a.m.

Pilot Balloon Ascent

Wind at 2,000 metres W 36 miles per hour  
500 W 25

## GALES.

Duration and Extreme Force  
in British Islands.

## Malin Head.

8 a.m. 27th - 8 p.m. 27th. NNE 8.

## Valencia.

27th 10 a.m. - 27th 11 p.m. WSW 8.

## Roche's Point.

27th 9 a.m. - 27th 11 a.m. WSW 8.

Ex. WSW 9 @ 11 a.m.

## Donaghadee.

27th 9 a.m. - 11 a.m. SE 8.

Ex. SE 9 @ 9 a.m.

## Newquay.

27th 7 a.m. - 6 p.m. WSW 8.

## Scilly.

27th 7 a.m. - 11 p.m. SW 8.

Ex. SW 10 @ 9 a.m.

Gust SW 30 metres per second @ 9 a.m.

27th 1 p.m. - 8 p.m. W 8.

Ex. W 9 @ 8 p.m.

Gust. W 20 m.p.s. @ 2 p.m.

## Falmouth.

27th 8 a.m. - 1 p.m. WSW 9.

Gust WSW 40 m.p.s. @ 9.45 a.m.

## Portland.

27th 8 a.m. - 11 p.m. WSW 8.

Ex. WSW 9 @ 1 p.m. &amp; 6 p.m.

## Dungeness.

27th 10 a.m. - 28th 4 a.m. S 8.

Ex. S 10 between 9 p.m. &amp; midn.

## Dover.

27th 11 a.m. - 11 p.m. SW 8.

Ex. SW 10 @ 6 p.m.

## Aberdeen.

During afternoon of 27th Gusts NE 18 m.p.s.

27th 7 p.m. Gusts NE 20 m.p.s.

## Spurn Head.

27th 3 p.m. - 28th 2 a.m. WNW 8.

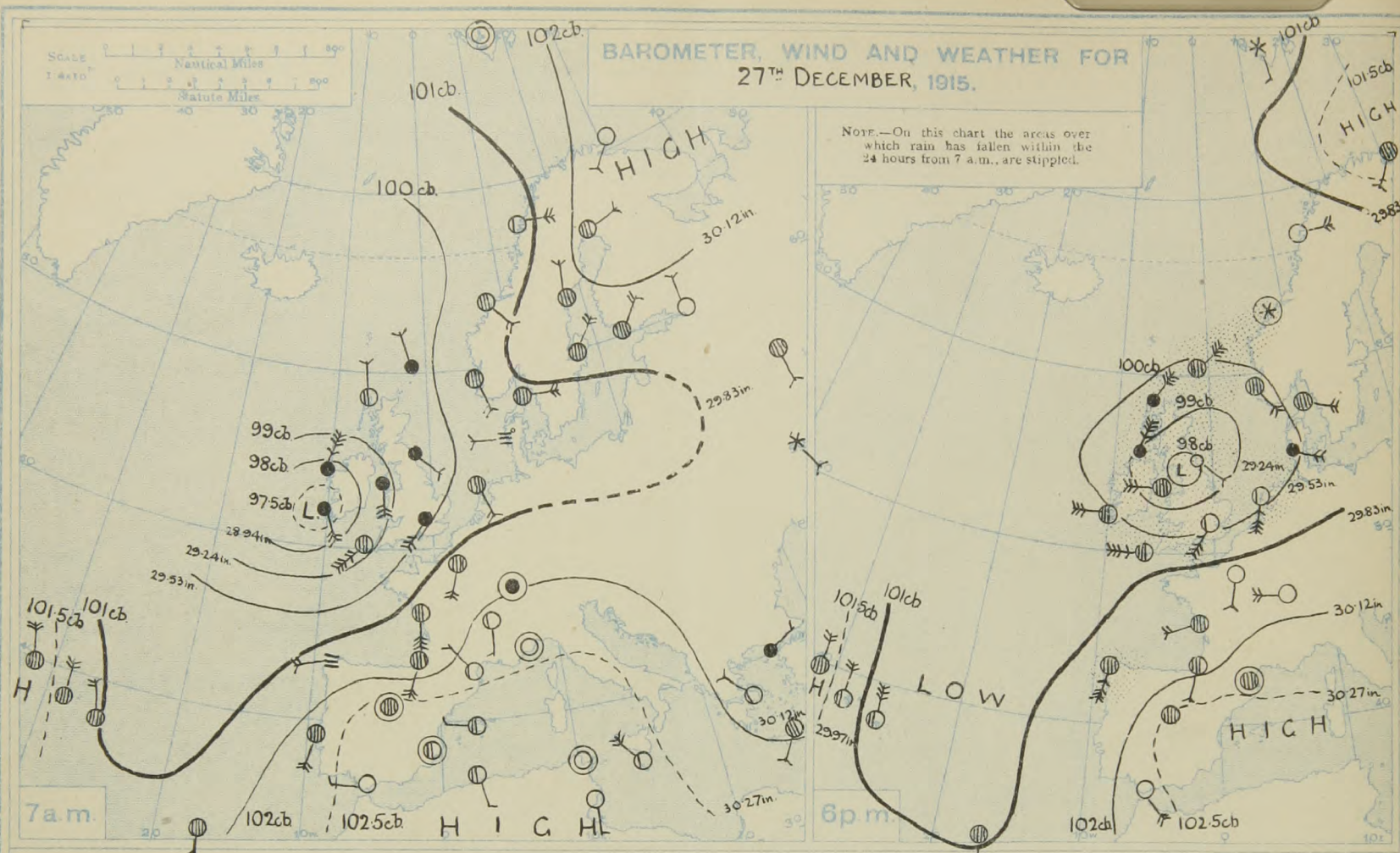
Ex. WNW 9 @ 8 p.m.

## Yarmouth.

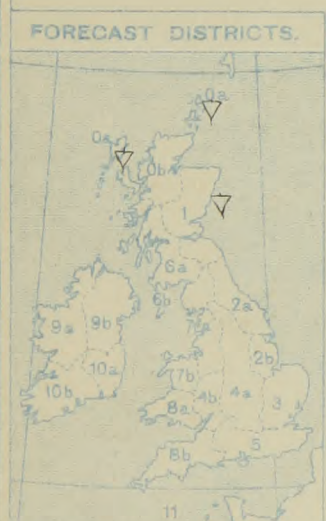
27th Noon - 28th 4 a.m. SW 8.

Ex. SW 9 @ 8 p.m.





### 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.

South Cone hoisted yesterday at 15 m in Districts 9 & 1.

Western Channel Day 11

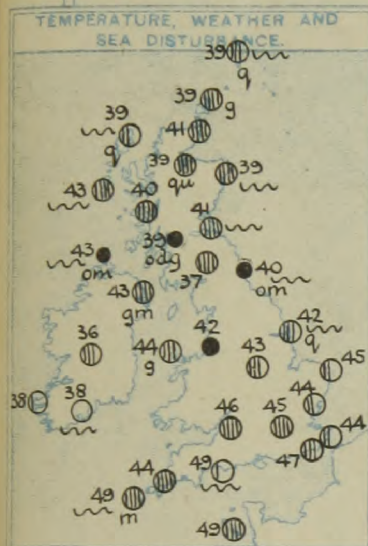
- |    |   |   |   |
|----|---|---|---|
| 0  | a | } | Fresh North-Easterly winds, decreasing later; cloudy weather, snow showers not improbable; cold.                |
| 1  | b |   |   |
| 2  | a | } | Moderate North-Westerly winds, decreasing, some rain, fair intervals; cool.                                     |
| 3  | b |   |   |
| 4  | a | } | Moderate Westerly winds, decreasing and backing to South or South-East later; weather fair; temperature normal. |
| 5  | b |   |   |
| 6  | a | } | Light Northerly winds, becoming variable; some rain, fair intervals, cold.                                      |
| 7  | b |   |   |
| 8  | a | } | Same as No. 2.  |
| 9  | b |   |   |
| 10 | a | } | Light variable winds, then freshening from the South-East; fair, some rain later; rather mild.                  |
| 11 | b |   |   |
| 12 | a | } | Fresh South-Easterly winds; sea rather rough; dull, misty, some rain later; mild.                               |
| 13 | b |   |   |



# SYNOPTIC CHART FOR 7 a.m., TUESDAY, 28<sup>TH</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

The depression of yesterday has passed away to Denmark, but there are indications of the approach of another disturbance to our south-west coasts.



## 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:—

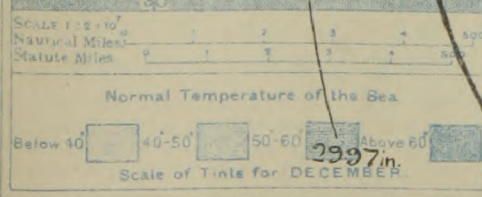
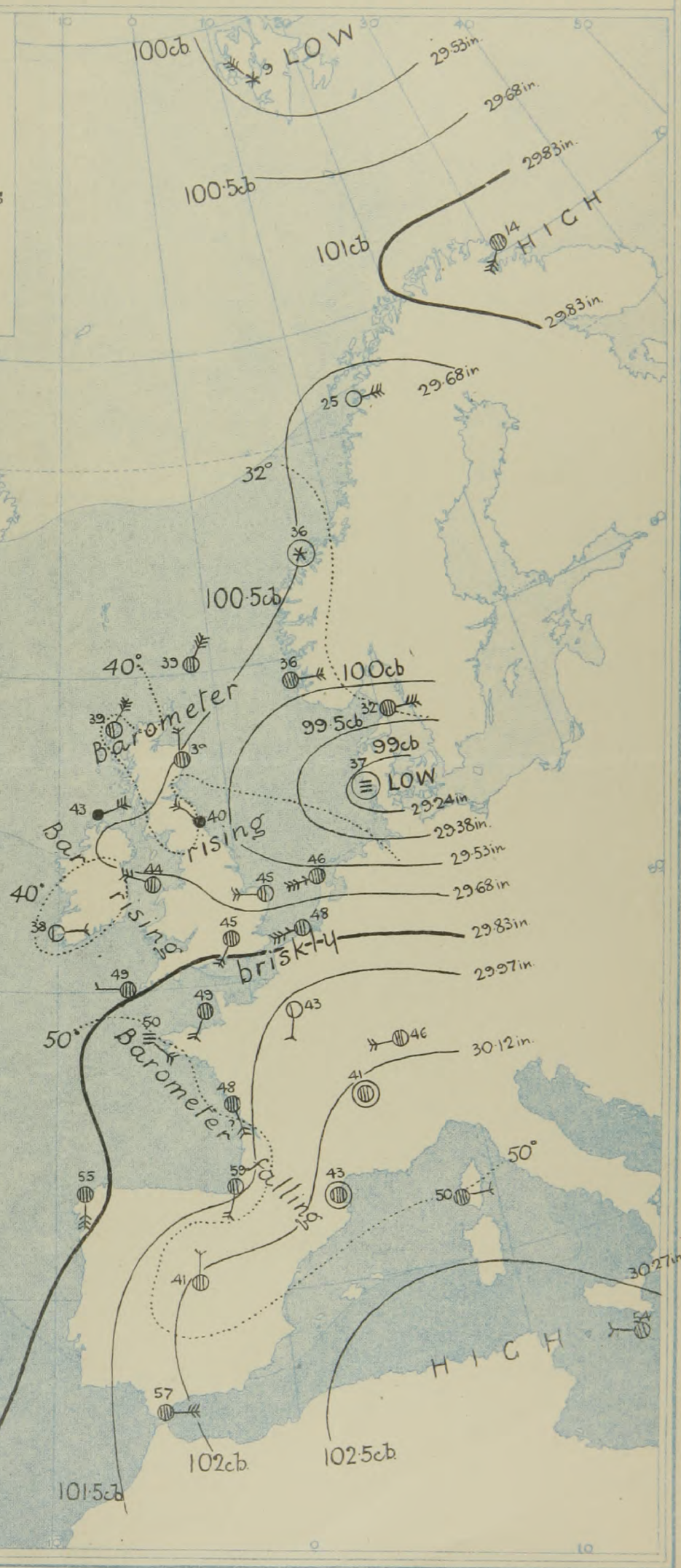
○ clear sky. ○ sky 1/2 clouded. ○ sky 3/4 clouded.

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

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

⊞, thunderstorm.

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





## DAILY WEATHER REPORT.

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

REPORTS  FOR  YESTERDAY.   
--

27<sup>th</sup> December, 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 ...	8	42	39	r. o.	o.	0.0	Margate ...	—	55	44			0.9
Banff ...	4	42	29	o.	or.	0.0	Ramsgate ...	9	53	41	p	bc.	2.1
Carnoustie ...							Hastings ...	14	53	45	or. bc.	c. b.	1.2
St. Andrews ...	13	42	32	*	*	0.0	Bexhill-on-Sea ...						
Eng. N.E.							Eastbourne ...	18	53	46	op	o. bc.	1.2
Harrogate ...	15	48	35	or. bc.	bc. or.	0.3	Seaford ...	14	53	42	bc. or.	c.	0.6
Skegness ...	11	52	39	r. o. c.	c. or.	1.9	Brighton ...	22	52	46	or. bc.	c. bc.	1.3
Eng. N.W.							Worthing ...	21	52	45			1.1
Morecambe ...							Littlehampton ...	14	52	?	r. o. bc.	bc. o.	1.0
Blackpool ...	12	54	37	or. o. c.	o. or.	0.5	Bognor ...	19	52	46	b.	b. f.	1.5
Southport ...	10	51	37	r. o. c.	bc.	0.4	Southsea ...	9	54	45	r	bc.	?
Midlands.							Bournemouth ...	23	54	44	o	c. o.	0.8
Buxton ...													
Leamington Spa ...	10	55	39	o. bc. c.	bc. c. op.	1.6	Weymouth ...	26	52	43	o. bc.	c. o.	0.2
Malvern ...	11	53	46	p	p.	0.0	Torquay ...	25	54	46	bc.	c. o.	0.0
Ross-on-Wye ...							Paignton ...						
Wales.							Falmouth ...	24	53	45	cq.	cq.	0.2
Rhyl ...							Penzance ...						
Colwyn Bay ...	16	54	41	bc.	r.	1.4	Newquay ...	?	51	?	o	o.	0.0
Llandudno ...							Ilfracombe ...	13	52	44	cq. p.	cq. p.	0.0
Aberystwyth ...	8	56	40	m. o. c.	c. o.	0.0	Weston-super-Mare ...	5	48	40	bc.	c.	1.0
Tenby ...													
England, E.													
Cromer ...													
Lowestoft ...													
Felixstowe ...	4	53	42	or. bc.	bc. c.	2.3							
Walton-on-Naze ...	5	53	43	o. cm.	op. bc. op.	1.3							
Southend-on-Sea ...	7	54	42	o. bc.	b. bc.	1.6							

## 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.) ...	63	81	0.9	54	43	37	1	or	c	bc. b
City (Bunhill Row) ...	*	*	0.2	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	71	92	6.2	55	43	38	1	or	bcu	or
Camden Sq. (Brit. Rainfall)	*	84	0.4	55	43	38	1	*	*	*
Hampstead (Reservoir) ...	*	84	0.2	53	38	29	2	c d. r.	bc. o	bc
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.)	63	84	0.5	174 Joules		6.2 Milliwatts.		22 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.					
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,								
Plymouth "								
S. Kensington (Museum Grounds to 6 p.m.)	13	55	44	37	b. om.	og r	og	*

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

23 <sup>rd</sup> & 24 <sup>th</sup> Dec., 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	8.6	11.55	3.44
Greenwich ...	8.6	11.55	3.45
Wick ...	8.8	12.2	3.56
Valencia ...	9.5	12.14	3.22

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to above 55° at several stations in the Midlands and south. Rain fell generally, but there were bright intervals in many parts of England. Gales were experienced very generally in the south of the country and Ireland.

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. 363

Wednesday, 29th December, 1915.

STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.						Sun- shine for Yester- day.
	Barom. Multi- 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.		
Lerwick	1015.7	39	NE	5	om	1018.6	0	39	0	NE	2	-	0	2	1	41	36	o.c	c.og	0	Hours.	
Deerness	1014.0	39	E/NE	3	o	1015.9	+	39	0	NE	4	-	0	4	1	40	36	o.r. bc	b.c.c.o	0	2.2	
Stornoway	1014.7	39	E	4	bc	1013.4	-2	37	-2	E	5	-	b	4	-	42	35	bcg	bc	b	1.5	
Castlebay (Barra Isd.)	1012.0	43	E	5	o	1009.4	-3	41	-2	E	4	-	bc	4	0.1	44	40	o	op.o	o.b.o. bc	0.0	
Glasgow	1013.2	36	E	1	b	1011.2	-2	36	-3	ENE	3	E	c	1	40	35	om. om	c. bc. om	c. op. ep	0.0		
Eskdalemuir	1012.6	36	N	2	o	1011.4	-1	35	-2	NE	3	-	o	1	38	33	o. ad	c. ad. bc	ad. o. c	0.0		
Malin Head	1009.2	41	SE	4	cg	1003.1	-4	41	-2	ESE	7	E	c	6	0.1	44	38	cg	cg	cg	0.0	
Blacksod Point	1007.1	39	ESE	3	bc	996.7	-4	40	-2	ESE	7	SE	c	5	5	44	35	bc	bc	om. om	0.0	
Valencia	1002.8	44	E	3	o	997.8	-6	54	+16	E	6	E	c	4	7	55	36	bc	c	or. o. c	0.4	
Roche's Point	1005.8	44	SE	3	r	993.5	+	49	+11	E	6	-	0	6	11	50	36	b. o	or	r. o	0.0	
Birr Castle	1007.1	38	S	1	c	997.6	+	45	+9	SE	3	-	o	2	2	45	32	f. c	c	or. o	0.0	
Donaghadee	1009.9	41	SE	4	ogm	1005.3	-3	41	-2	SE	5	-	om	4	2	43	40	om. cg	bc. og	om. om	0.0	
Liverpool (Bidston)	1010.7	40	WSW	1	o	1006.1	-2	40	-2	E	3	E	og	3	1	42	38	og	om	o	0.0	
Holyhead	1008.9	42	E	4	o	1001.5	-2	43	-1	E	8	-	og. om	7	-	46	41	o.c.o	o.c.o	om	0.1	
Pembroke (St. Ann's)	1009.6	47	E	2	o	997.5	-3	47	0	ESE	6	-	og	4	3	51	43	b. c. o	o. or	cg. p	0.4	
Scilly (St. Mary's)	1003.3	51	SE	4	om	990.1	-5	51	+2	SE	7	SW	ogp	6	6	52	44	om. p	om. ogp	om. ogp	0.0	
Falmouth	1005.0	50	SE	3	bc	994.7	-3	50	+6	SE	4	-	o	5	5	50	44	o. or	r. o	cg	0.0	
Jersey (St. Aubin)	1009.2	48	ESE	2	o. og	993.2	+	50	+1	ESE	4	-	o	3	-	50	47	og	og. e	og. o	0.0	
Portland Bill	1008.5	49	ESE	3	o	993.3	-5	48	-1	E	6	-	o	5	1	51	47	c. r	c. o	c. op	0.0	
Dungeness	1011.9	47	S	1	o	1005.4	-3	47	0	E	3	-	oz	3	-	49	46	c. o	o.c.o	oz	0.0	
Dover	1011.9	45	-	0	bc	1006.8	-2	45	+1	ESE	3	E	c	4	-	49	40	bc. c	c. bc. c	bc. c. c	0.9	
Wick	1014.9	41	NE	4	bc	1015.4	-3	39	-2	E	3	-	o	4	0.2	42	37	om	om. bc	bc. om	0.0	
Nairn	1014.8	37	E	1	r	1014.3	+	35	-4	E	1	-	om	2	2	40	31	ph. cg	om. bc	bc. om	0.0	
Aberdeen	1013.8	39	N	3	o	1014.6	0	40	+1	ENE	4	E	c	3	0.1	40	36	op. c. o	co	og. bc	0.0	
Leith	1012.5	40	NE	2	o	1013.1	0	39	-2	E	1	E	c	4	2	42	38	og. r	dog. o	r. a. c	0.0	
Tynemouth	1010.7	40	N	3	omg	1011.2	0	40	0	E	2	-	om	0	2	40	39	om. r	og. m. g	om	0.0	
Spurn Head	1010.6	43	NNW	5	og. m	1008.5	-1	42	0	E	4	-	og	5	0.2	43	39	cg	og. m	om. r	0.0	
Yarmouth	1011.6	43	WSW	2	bc	1009.6	-3	42	-3	ESE	3	-	om	3	-	49	38	hc. c	bc	bc. om	2.8	
Clacton-on-Sea	1011.7	44	W	1	o	1007.2	-3	45	+1	ENE	3	-	o	3	-	48	42	bc	bc. c. om	og. m. g	2.4	
Nottingham	1011.2	42	NE	2	o	1008.1	+	40	-3	ENE	4	-	o	2	-	45	37	c. om	om	o	0.0	
Bath	1009.6	47	W	7	o	1002.3	+	47	+1	E	5	E	o	8	8	49	44	o. bc	og	og	0.5	
St. Farnborough	1010.8	45	SE	1	m	1004.3	-3	44	+1	E	2	-	o	3	-	48	42	bc. b. o	om	o	1.2	
London (Kew Obsy.)	1011.2	46	-	0	om	1005.6	-3	46	+1	E	5	-	om	2	-	49	44	c. bc. bc. bc	o. om	om	1.7	
Spitsbergen	992.2	9	S	2	o	992.7	0	-2	-11	SE	2	+	b	2	+	9	-8					
Vardö	1010.9	18	SW	6	o	1009.2	0	14	0	SW	7	-	o	4	+	18	3					
Bodö	1007.1	30	E	2	b	1011.5	0	28	+3	E	3	-	o	2	?	30	25					
Christiansund	1015.4	36	NE	2	o	1016.7	0	34	-2	-	0	-	o	3	3	36	34					
Skudesnaes	1011.0	30	E	2	b	1016.6	+3	28	-8	E	2	-	b	2	-	36	27					
Færder (X'lantia Fjord)	1011.3	25	NNE	6	o	1017.6	+3	23	0	NNE	6	-	o	2	?	25	21					
The Scaw (Skagen)	1008.4	28	SE	5	o	1014.6	+3	28	-4	ENE	4	-	S	4	?	32	27					
Blaavands Huk	1007.4	34	NW	1	o	1012.8	0	32	-5	NE	1	-	o	3	-	39	30					
Haparanda	1020.7	1	SSE	4	o	1019.0	-1	3	+7	S	4	-	c	2	?	5	0					
Hernösand	1016.8	12	N	2	S	1018.9	+2	5	-4	-	0	-	o	2	5	16	0					
Stockholm	1010.3	27	ENE	4	o	1016.3	+3	21	-6	N	2	-	o	2	2	28	21					
Wisby	1006.1	34	E	2	o	1013.7	+3	32	-2	E	2	-	o	1	1	36	30					
Karlstad	1011.0	21	NNE	4	S	1018.7	+4	16	-2	NE	2	-	o	7	7	23	14					
Petrograd (5 a.m. G.M.T.)																						
The Helder	1010.4	43	WSW	4	b	1011.0	0	41	-5	ESE	1	-	m	1	-	45	37					
C. Gris Nez	1013.1	47	SW	1	o	1005.5	-4	45	-4	ENE	4	+	o	2	1	50	43					
La Hève	1009.7	46	SSE	4	o	1003.1	+	46	+3	ESE	4	+	o	4	-	50	41					
Ushant																						
Brest (St. Mathieu)	1005.6	52	SSE	4	o	994.7	-3	52	+1	SE	6	+	o	5	-	54	48					
Rochefort (Ile d'Aix)	1010.0	50	SSE	4	o	1002.4	0	49	+1	S	5	+	o	2	-	57	48					
Biarritz	1008.3	54	ESE	2	o	1005.0	+2	61	+2	SSW	5	+	o	2	-	63	59					
Paris	1013.7	46	SSE	2	bc	1006.3	-3	43	0	ESE	2	-	c	2	-	50	43					
Beaufort	1018.4	48	W	2	o	1012.8	+	40	-6	-	0	+	o	2	-	53	39					
Lyons	1017.2	47	WSW	2	b	1009.7	+	53	+12	S	5	+	o	2	-	56	45					
Nice	1021.0	50	-	0	o	1017.6	-1	46	-	-	0	+	c	2	-	54	43					
Perpignan	1017.7	4	-	0	o	1010.1	-3	43	0	SW	2	SW	o	2	-	54	43					
Sanguinaire																						
Corunna (7 a.m.)	1000.0	61	SSE	6	o	1007.4	+9	50	-5	WSW	6	-	r	5	2	64	48					
Madrid (8 a.m.)	1014.7	48	E	2	o	1014.3	+3	43	+2	W	1	-	c	2	-	50	39					
Lisbon (9 a.m.)																						
Gibraltar	1015.6	55	E	2	b	1015.9	+	54	-3	W	3	+	r	2	14	57	53					
Rome																						
Malta (8 a.m.)						1022.7	0	57	+3	SSW	2	-	bc	0	-	63	54					
Azores (Horta, 8 a.m.)	1014.3	+	NNW	6	o																	
Madeira (Funchal)	1017.0	59	NW	4	o	1021.6	+2	54	-3	W	2	W	bc	2	-	63	55					

## GALES.

Duration and Extreme Force  
in British Islands.

Holyhead - 29th

7 a.m. E. 6.

South Farnborough - 7.55 a.m.

Pilot Balloon Ascent -

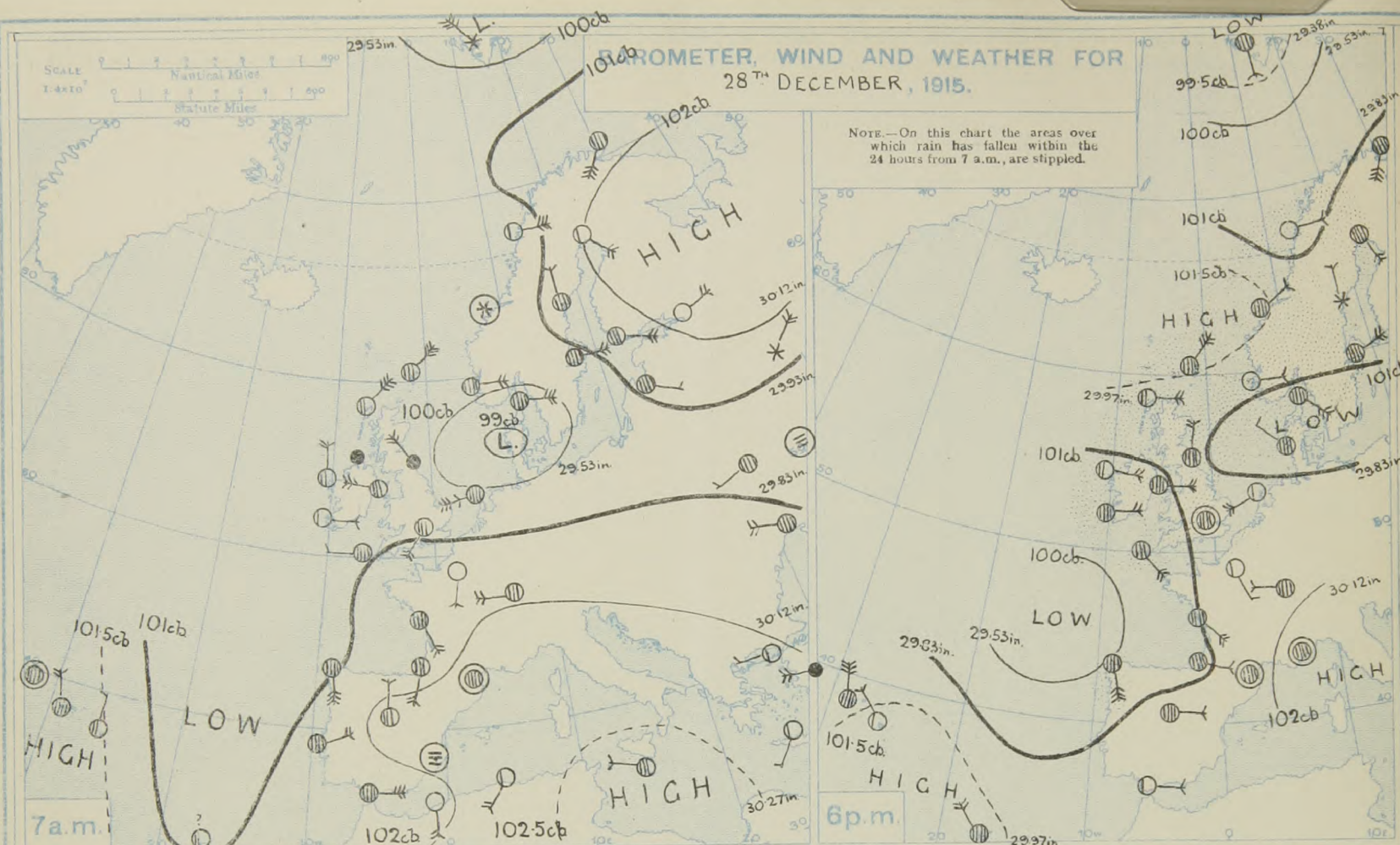
Wind at 500 metres SE. 38 miles per hour.

\* 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 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.

Warnings issued at 8.30 a.m. to-day.

Western Channel and Bay

Moderate Easterly winds, freshening; dull, with

some rain or sleet; rather cold.

Fresh Easterly winds, increasing; dull, some rain

later; rather cool.

Fresh Easterly winds, becoming strong or a gale; dull some rain; rather cool.

Same as No. 3.

Strong winds or gales from between East and South-East

dull, some rain; temperature normal.

Southerly gales; high sea; dull and rainy; temperature normal.

**FURTHER OUTLOOK.**

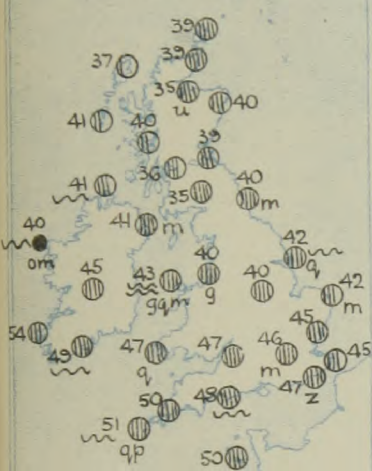


# SYNOPTIC CHART FOR 7 a.m., WEDNESDAY, 29<sup>TH</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

The depression in the south-west will continue to spread over the British Isles.

### 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.

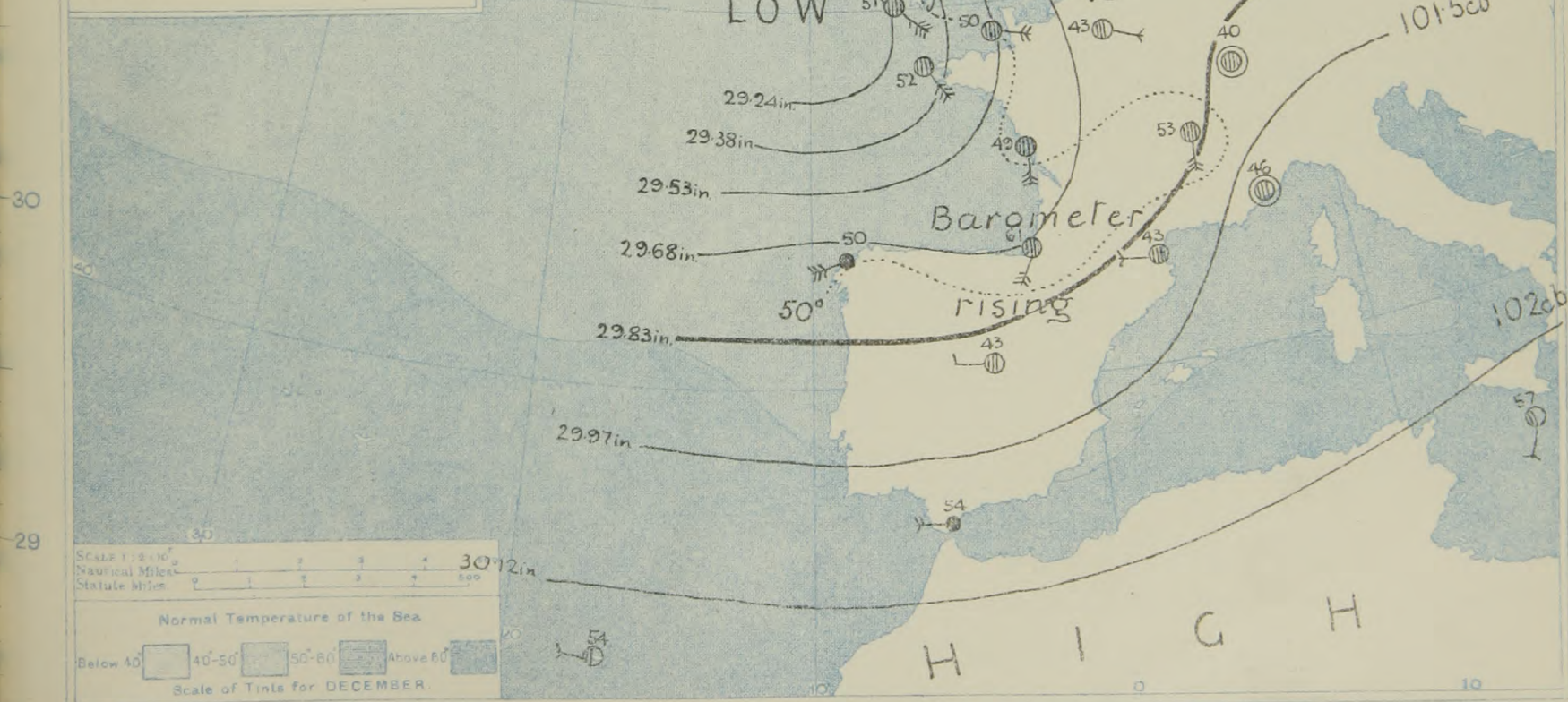
Force, on the scale 0-12, is indicated by the number of feathers. Calm

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

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

○ clear sky. ○ sky 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.

29<sup>th</sup> December 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.	BAROMETR.		TEMP.		WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Max.		Min.	
				Direc.	Force 0-12.		Multi-bars at M.S.L.	Change in 3 hours.	Dry Bulb.	Change in 24 hours.	Direc.	Force 0-12.							
																			°F.
	Blackod. Point.	994.4	43	NNE	7	r	1006.7	+2	42	+3	N	3	N	bc	H	19	43	39	
	Pembroke ...	980.9	51	SW	9	cy	1008.2	+2	47	-5	W	3	W	bc	H	11	51	46	
	Haparanda ...	1022.4	4	SSE	2	0	1021.6	0	4	+13	SSE	4	-	0	*	-	3	-17	
	Hermosand ...	1019.1	1	N	2	0	1015.0	-2	9	+11	N	2	-	0	*	-	9	-4	
	Stockholm ...	1013.6	46	NNE	2	0	1007.9	-2	27	+15	E	4	-	0	*	3	27	12	
	Widby ...	1010.4	27	ESE	2	0	1007.4	-1	34	+9	ESE	2	-	0	*	-	34	25	
	Karlstad ...	1013.1	16	-	0	0	1005.5	-3	18	+8	N	4	-	bc	*	1	19	16	
	Lisbon ...	1019.3	57	ESE	3	0	1011.3	-4	54	-5	ESE	3	-	0	7	-	61	54	
28 <sup>th</sup> December																			

28<sup>th</sup> December

## 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.	Oban ... ..	4	41	39	o	o	00	England, S.E.	Tunbridge Wells ... ..	49	44	bc	c	20
	Banff ... ..	4	41	39	rs	bc	00		Margate ... ..	49	45	bc	c	20
	Carnoustie ... ..								Ramsgate ... ..	50	45	bc	oc	03
	St. Andrews ... ..								Hastings ... ..	50	47	bc	op	01
Eng. N.E.	Harrogate ... ..	2	41	37	bc	bc	17	England, S.W.	Eastbourne ... ..	50	45	bc	o	06
	Skegness ... ..	0.1	45	35	bc	bc	02		Seaford ... ..	44	46	bc	o	00
Eng. N.W.	Morecambe ... ..		42	?	bc	bc	45	England, S.W.	Brighton ... ..	49	44	bc	bc	02
	Blackpool ... ..	1	46	35	bc	bc	36		Worthing ... ..	49	45	o	o	00
	Southport ... ..	4	42	36	bc	b	28		Littlehampton ... ..	50	43	o	o	00
Midlands.	Buxton ... ..		55	41	bc	bc	41	England, S.W.	Bognor ... ..	50	45	o	o	00
	Leamington Spa ... ..		47	42	bc	b	34		Southsea ... ..	50	43	o	o	00
	Malvern ... ..		49	41	bc	om	27		Bournemouth ... ..					
	Ross-on-Wye ... ..													
Wales.	Rhyl ... ..	4	43	38	op	op	00	England, S.W.	Weymouth ... ..	51	46	bc	op	00
	Colwyn Bay ... ..	13	44	40	bc	bc	00		Torquay ... ..	51	44	o	op	00
	Llandudno ... ..								Paignton ... ..	50	44	bc	20	00
	Aberystwyth ... ..	3	48	43	bc	bc	10		Falmouth ... ..	51	45	bc	20	00
	Tenby ... ..								Penzance ... ..	50	43	o	o	00
England, E.	Cromer ... ..							England, S.W.	Newquay ... ..	52	45	o	o	00
	Lowestoft ... ..		48	42	bc	bc	44		Ilfracombe ... ..	47	41	bc	c	00
	Felixstowe ... ..								Weston-super-Mare ... ..					
	Walton-on-Naze ... ..													
	Southend-on-Sea ... ..		50	43	bc	bc	24							

## 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) ...	74	98	2.3	50	43	38	-	b. bc	c	cd ad o
Westminster (St. James's Pk.)	80	100		51	44	39	-	abc.	bc. o	ad. noe
Camden Sq. (Brit. Rainfall)	74	98	0.6	49	43	38	-	b. bc	c. o	*
Hampstead (Reservoir) ...	*	98	1.4	47	41	34	-	bc. of	o	ome
Richmond Park	...	*								
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Gaiisher screens.)										
VERTICAL COMPONENT OF SOLAR RADIATION PER SQUARE CENTIMETRE DURING YESTERDAY.										
Total.				Average Rate.			Max. Rate.			
S. Kensington (Roof of M.O.)	78	98	1.6	215 Joules			7.7 Milliwatts.			17 Milliwatts.

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

29 <sup>th</sup> & 30 <sup>th</sup> December 1915.	Sunrise.	Noon.	Sunset.
G.M.T.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	8.6	11.55	3.45
Greenwich ...	8.6	12.0	3.46
Wick ...	8.9	12.3	3.53
Valencia ...	9.5	12.4	4.36

## NOTES ON YESTERDAY'S WEATHER.

Temperature rose to 50° at a few stations, and to 55° at Valencia. Little rain was measured over the country as a whole, but the day was generally cloudy, with a good deal of mist in the south-east.

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# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 364. Thursday, 30th December 1915.

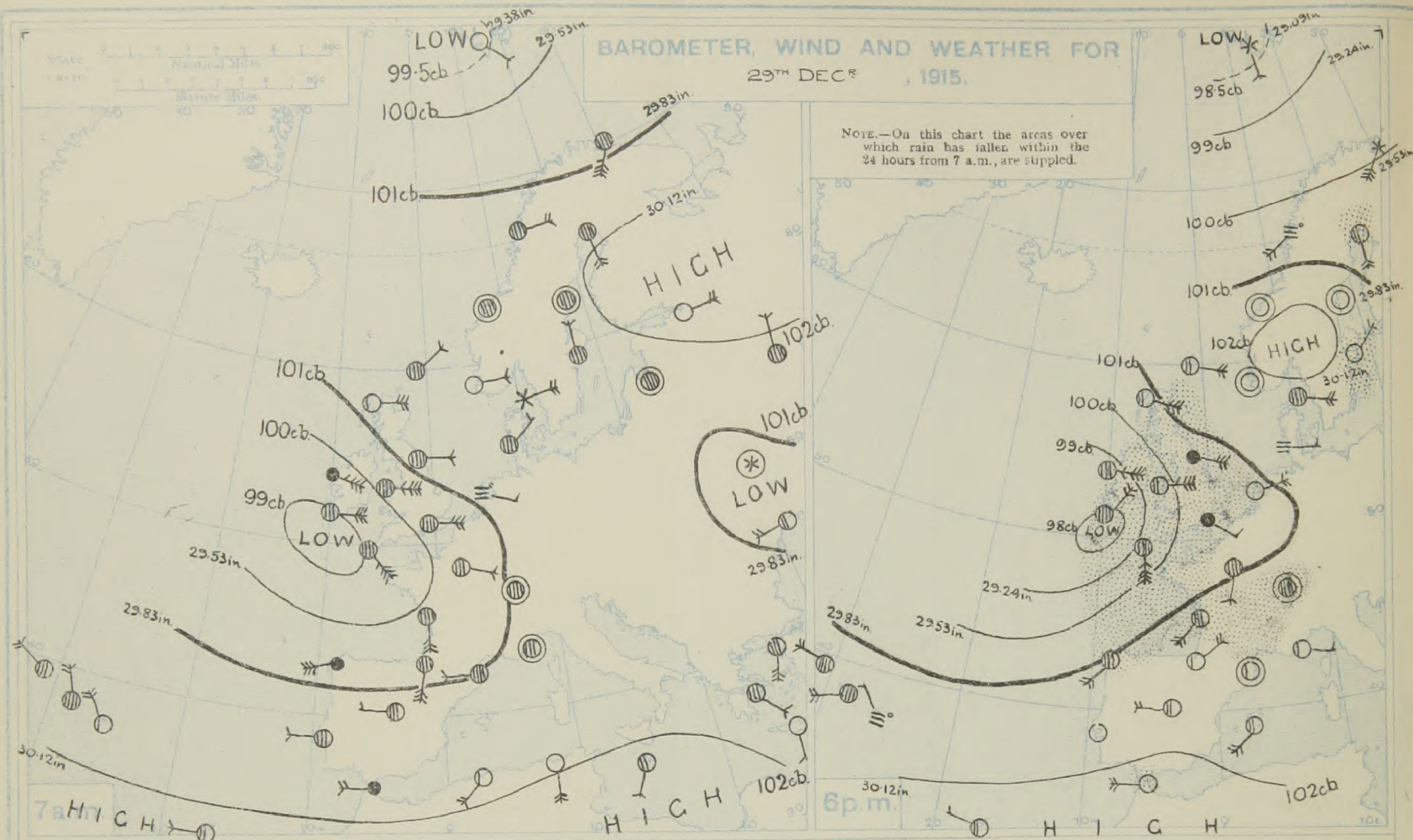
STATIONS.	YESTERDAY EVENING.					THIS MORNING 7 A.M., G.M.T.										PAST 24 HOURS.					Sun- shine for Yester- day.	
	Barom. Milli- bars at M.S.L.	Temp. °F.	WIND.		Weather.	Barometer. Milli- bars at M.S.L.	Change in 24 hours.	Temp. °F.	Temp. °F.	WIND.		Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rain- fall. Milli- metres.	TEMP.		WEATHER.				
			Dir.	Force 0-12.						Dry Bulb.	Change in 24 hours.					Dir.	Force 0-12.	Max.	Min.	Morning.		Afternoon.
BRITISH ISLANDS.	Lerwick ...	1017.8	33	ESE	4	bc	1012.6	+2	39	0	SE	6	-	omq	5	-	40	37	c	bc	ocq	Hours.
	Deerness ...	1014.1	39	ESE	6	og	1006.1	-	41	+1	ESE	6	-	rq	6	?	41	37	o.c	c.og	orq	0.0
	Stornoway ...	1007.3	39	ESE	7	bcq	997.5	-5	42	+5	ESE	8	-	cq	7	-	42	37	bcq	bcq	bc,cq	1.7
	Castlebay (Barra Isd.)	1001.7	43	E	4	bc	991.2	-7	45	+4	E	6	-	op	6	Trace	45	40	bc	o	bc,op	0.0
	Glasgow ...	1006.2	37	E	5	og	999.9	-2	41	+5	SE	2	S	o	*	1	41	36	o	og,ogp	ogp,op	0.0
	Esksdalemuir ...	1006.9	38	E	5	or	1001.4	-1	40	+5	SE	4	-	b	*	7	42	34	od	od	or,og	0.0
	Malin Head ...	996.5	42	E	9	omq	985.6	-2	45	+4	S	8	S	bcq	7	2	45	40	omq	cpq	bcq	0.0
	Blackrod Point ...	989.5	43	ESE	8	cmu	982.1	+8	46	+6	SSW	8	SW	omd	6	2	46	39	cm	cmu	om,omr	0.0
	Valencia ...	979.0	48	NE	4	o	992.2	+7	47	-7	SSW	5	SW	e	4	2	54	45	cogp	og	or,oc	0.1
	Roche's Point ...	985.8	49	ESE	7	r	995.2	-	48	-1	SW	4	-	b	5	7	51	46	one,m	omr	r.o.b	0.0
	Birr Castle ...	987.0	48	ESE	5	o	991.3	-	46	+1	S	6	-	o	*	3	48	43	o	op	or,opq	0.0
	Donaghadee ...	997.8	42	ESE	9	omq	994.0	+1	46	+5	S	6	-	omq,r	5	6	47	40	ogm	omq	omq	0.0
	Liverpool (Bidston)	1005.0	43	E	4	r	1001.7	+1	43	+3	SE	6	SE	o	3	4	45	40	o	or	c.o	0.0
	Holyhead ...	996.0	46	E	7	bcq,om	997.7	+1	47	+4	S	6	-	opm	5	1	50	43	ogm	o,op,cm	c.b,op	0.0
	Pembroke (St. Ann's)	992.3	49	SSW	7	cq,b	999.2	+2	49	+2	SW	4	SW	bcq	6	7	49	44	cq	cq	bcq,p	0.2
	Scilly (St. Mary's)	990.0	47	S	8	omq	999.0	+1	50	-1	S	4	S	bc	6	3	52	45	cmq,p	omq	cpq,bc	0.3
	Falmouth ...	995.5	50	SSW	7	o	1000.9	0	49	-1	SSW	3	-	o	*	5	52	47	cq	cq,og	og,op,o	0.5
	Jersey (St. Aubin)	1003.2	50	S	3	b	1007.1	-	48	-2	SSW	4	-	age	3	Trace	53	47	op	c.b	b,age	1.0
	Portland Bill ...	1001.1	50	S	4	b	1004.8	0	50	+2	S	5	S	o	5	1	51	48	o,op	c,bc	bc,c	0.0
	Dungeness ...	1003.3	49	SSW	4	op	1009.0	+2	47	0	SW	3	SW	bc	4	2	49	47	o,bc	bc	op,bc	0.0
Dover ...	1004.9	48	SW	4	r	1009.6	+2	47	+2	SSW	5	SW	o	4	1	48	45	c.o	oz	r.o,c.o	0.0	
NORTHERN EUROPE.	Wick ...	1012.8	40	SE	4	o	1006.2	-3	42	+3	SE	5	-	r	4	1	42	37	o.c	c,ogp	ogm,br	0.0
	Nairn ...	1010.4	36	E	3	bcm	1002.0	-	40	+5	ESE	2	-	og	3	0.1	40	35	c,bc	cm	q,c	0.5
	Aberdeen ...	1012.8	39	SE	6	o	1005.1	-5	42	+2	SE	6	-	r	5	2	42	38	c,op	opq	ogp	0.1
	Leith ...	1008.3	40	E	2	r	1001.8	-3	43	+4	SE	2	SE	c	4	1	44	38	c,at,r	d.c,og	r.o,c	0.0
	Tynemouth ...	1008.3	42	ESE	5	omq,r	1002.9	-3	43	+3	S	3	S	cm	5	11	43	40	omq,r	omq,r	cm	0.0
	Spurn Head ...	1005.4	43	ESE	6	r	1006.7	0	43	+1	S	5	-	om	5	5	44	42	cq	og	og	0.0
	Yarmouth ...	1006.4	44	ESE	4	om	1008.3	+2	41	-1	WSW	3	-	bcm	3	1	44	40	cm	om	omd,bc	0.0
	Clacton-on-Sea ...	1004.5	45	ESE	4	o	1009.0	+2	45	0	SSW	3	SW	bc	3	1	46	43	og	og	og,bc	0.0
	Nottingham ...	1003.6	44	E	4	r	1005.4	-	41	+1	S	2	SW	b	*	6	44	39	op	r	r.o	0.0
	Bath ...	1001.2	42	S	?	b	1004.3	-	48	+1	S	2	S	c	*	1	51	45	z	r.o,b,c	b,bc,op	0.0
St. Farnborough ...	1003.0	45	ESE	2	b	1006.8	0	45	+1	SE	3	-	bc	*	1	48	42	om	or,bcm	b	0.0	
London (Kew Obsy.)	1003.8	47	SE	1	omr	1008.1	+1	45	-1	S	2	-	o	*	0.1	48	43	om	om,omr	om,omr	0.0	
FRANCE, &c.	Spitsbergen ...	984.8	0	S	2	S	986.4	+2	-4	-2	S	1	-	o	*	0	-22					
	Vardö ...	999.3	12	SW	6	S	995.4	0	12	-2	W	5	-	b	4	*	14	10				
	Bodö ...	1004.6	34	SW	4	m	1012.0	+3	28	0	SE	4	-	o	2	-	34	14				
	Christiansund ...	1019.1	34	-	0	b	1019.0	0	37	+3	-	0	-	c	4	-	37	32				
	Skudesnaes ...	1018.7	26	-	0	b	1017.7	-1	25	-3	E	1	-	b	1	-	32	25				
	Færder (X'lania Fjord)	1022.0	21	NE	3	b	1022.7	0	18	-5	NNE	2	-	f	1	-	23	16				
	The Scaw (Skagen)	1019.3	25	E	4	o	1021.5	-4	25	-3	E	2	-	o	2	?	28	23				
	Blaavands Huk ...	1014.4	34	E	1	f	1016.3	0	34	+2	ESE	3	-	o	4	-	34	32				
	Haparanda ...	1015.5	5	S	4	bc	1008.6	+4	7	+4	WNW	2	-	b	*	1	9	3				
	Hernösand ...	1018.4	3	-	0	b	1014.3	0	28	+23	NW	2	-	b	*	-	28	0				
SOUTHERN EUROPE.	Stockholm ...	1019.7	16	NE	2	b	1020.4	0	18	-3	W	2	-	o	*	Trace	21	14				
	Wisby ...	1017.5	27	NE	4	S	1020.6	+3	25	-7	NNE	2	-	o	3	1	32	23				
	Karlstad ...	1022.7	16	-	0	bc	1023.8	0	0	-16	N	2	-	b	*	-	18	-6				
	Petrograd (5 a.m. G.M.T.)																					
	The Helder ...	1008.6	41	ENE	4	o	1010.0	+2	43	+2	S	2	-	f	1	1	43	39				
	C. Gris Nez ...	1004.6	47	S	4	r	1009.3	+2	44	-1	S	4	-	b	3	1	48	41				
	La Hève ...	1004.0	48	SE	4	o	1002.0	-	45	-1	SSW	4	-	bc	3	-	52	41				
	Ushant ...																					
	Brest (St. Mathieu)	1002.4	51	SW	6	b	1003.7	-1	51	-1	SSW	6	-	c	7	4	55	48				
	Rochefort (Ile d'Aix)	1009.2	50	SW	5	c	1012.0	0	45	-4	S	4	-	bc	*	Trace	54	45				
Biarritz ...	1012.3	52	NE	3	b	1012.4	-2	51	-10	S	3	-	c	3	-	61	46					
SOUTHERN EUROPE.	Paris ...	1008.7	50	SW	2	o	1013.9	+3	45	+2	SSW	2	-	o	*	-	52	41				
	Belfort ...	1012.8	44	-	0	o	1016.7	-	44	+4	WSW	4	-	r	*	2	48	40				
	Lyons ...	1013.0	51	WSW	2	b	1016.7	-	45	-8	NNE	7	-	r	*	7	56	44				
	Nice ...	1016.9	47	E	1	b	1017.2	0	46	0	E	3	-	c	3	1	57	43				
	Perpignan ...	1012.4	46	-	0	b	1014.9	+1	45	+2	SW	1	-	o	*	-	55	43				
	Sanguinaire ...																					
	Corunna (7 a.m.)	1010.0	54	SW	4	c	1012.6	+5	54	+4	SW	5	-	r	4	1	55	50				
	Madrid (8 a.m.)	1015.1	46	W	3	bc	1022.7	+2	39	-4	S	?	-	o	*	-	48	37				
	Lisbon (9 a.m.)																					
	Gibraltar ...	1021.3	54	W	4	b	1022.7	-	56	+2	W	5	-	bc	4	6	59	52				
Rome ...																						
Malta (8 a.m.)							1021.2	0	59	+2	SSW	1	-	b	*	-	64	57				
Azores (Horta, 8 a.m.)	1016.3		WSW	4	o																	
Madeira (Funchal)	1023.4	63	WNW	1	bc	1023.3	0	59	+5	WNW	1	-	b	2	-	64	54					

South Farnborough - 7.50 a.m.

Pilot Balloon Ascent -

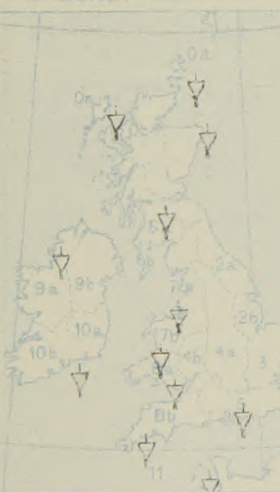
Wind at 350 metres S by W 25 miles per hour.





**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.

South Cone Hoisted at 8.30 a.m. in Districts 0 to 11.

and at 7 p.m. in District 1, Western Channel and Bay.

- |    |   |  |
|----|---|--|
| 0  | a | } Strong South-Easterly winds or gales, veering Southerly and decreasing later; some rain, then improving; becoming mild |
| 1  | b |  |
| 2  | a | } Moderate or fresh Southerly winds, veering South-Westerly, fair, some showers, rather mild.                            |
| 3  | b |  |
| 4  | a | } Moderate or fresh Southerly winds; fair, some showers; rather mild.  |
| 5  | b |  |
| 6  | a | } Same as Nos. 0 to 1.   |
| 7  | b |  |
| 8  | a | } Same as Nos. 2b to 5.  |
| 9  | b |  |
| 10 | a | } Strong South-Westerly winds, decreasing, fair some showers; mild.  |
| 11 | b |  |
|    |   | } Strong Southerly winds and rough sea, then wind moderating and veering; fair, some showers; mild.                      |

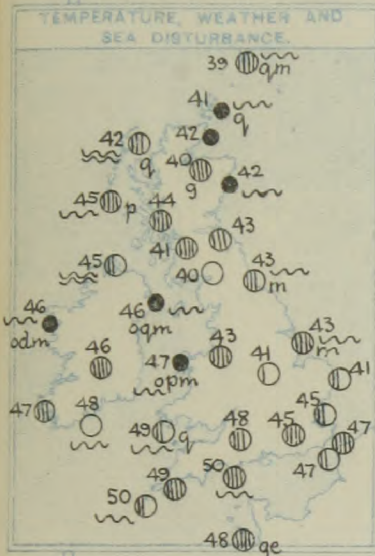
**FURTHER OUTLOOK.**



# SYNOPTIC CHART FOR 7 a.m. THURSDAY, 30<sup>th</sup> DECEMBER, 1915.

## GENERAL INFERENCE.

The main depression is passing up our northwest coasts, but there are indications of a small secondary to the south of Ireland.



## EXPLANATION.

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

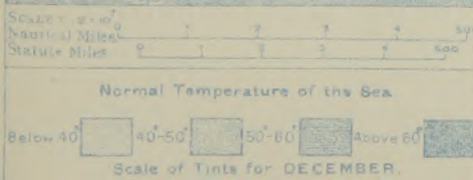
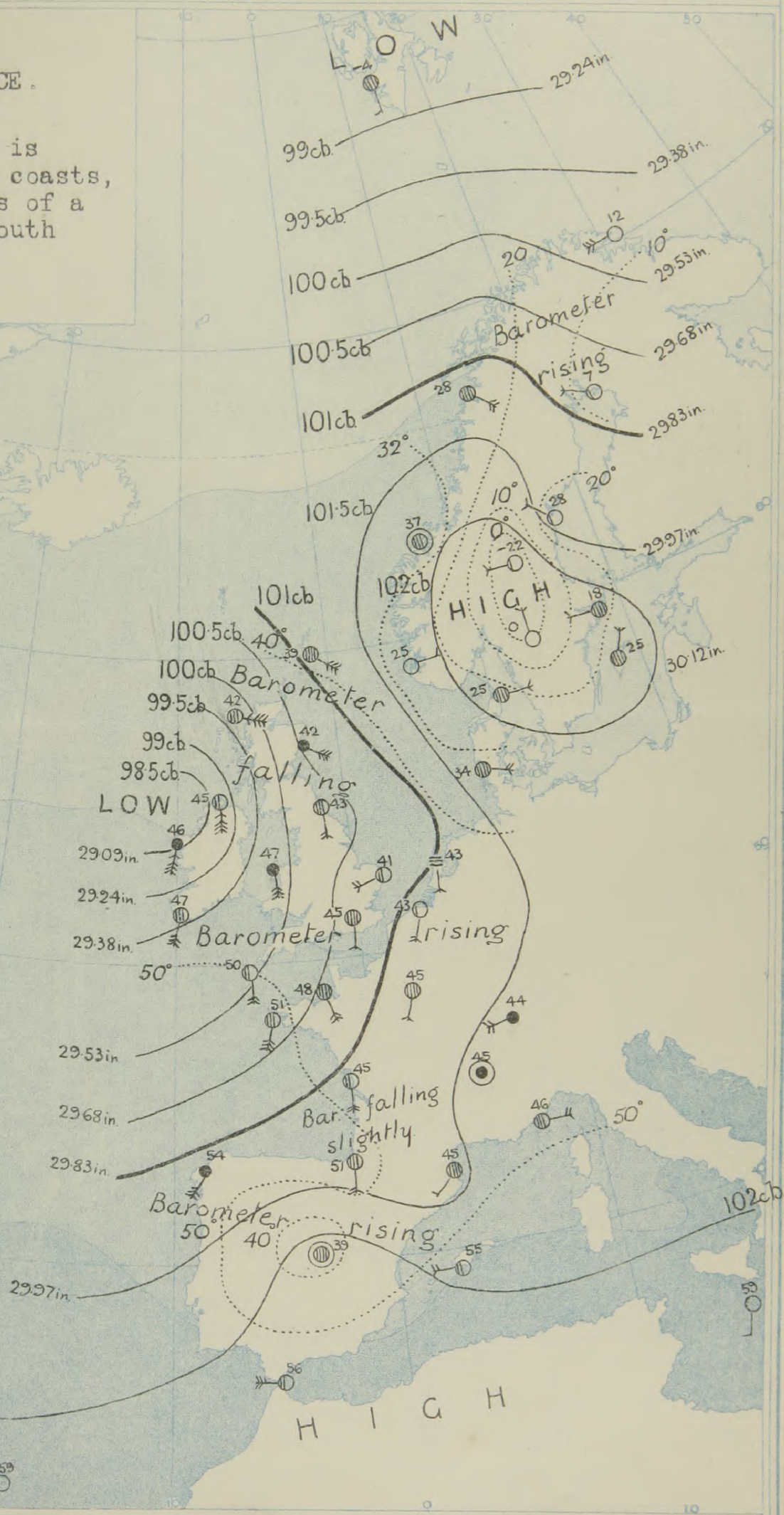
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Calm

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

**SEA DISTURBANCE.**—Rough High





## DAILY WEATHER REPORT.

Thursday, 30<sup>th</sup> December, 1915.REPORTS  
FOR  
YESTERDAY.29<sup>th</sup> December

## 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	37	c	d	0.0	Tunbridge Wells ...	...	49	44	c	0.0	0.0
Banff ...	...	41	32	c. bc	cd	0.0	Margate ...	...	46	43	c	0.0	0.0
Carnoustie ...	...	...	...	...	...	...	Ramsgate ...	...	50	46	a	0.0	0.0
St. Andrews ...	...	42	37	*	*	0.3	Hastings ...	...	50	46	a	0.0	0.0
England, N.E.							Bexhill-on-Sea ...	...	...	...	...	...	...
Harrogate ...	...	41	35	o	o	0.0	Eastbourne ...	...	49	46	o	0.0	0.0
Skegness ...	...	43	34	og	ogt	0.0	Seaford ...	...	49	46	o	0.0	0.0
England, N.W.							Brighton ...	...	50	46	o	0.0	0.0
Morecambe ...	...	43	35	c. o	o. o	0.0	Worthing ...	...	50	46	o	0.0	0.0
Blackpool ...	...	45	34	og	ogt	0.0	Littlehampton ...	...	50	42	o	0.0	0.0
Southport ...	...	44	35	c. o	cd. r	0.0	Bognor ...	...	49	46	d. o	0.0	0.0
Midlands.							Southsea ...	...	50	45	o	0.0	0.0
Buxton ...	...	40	34	c	c. r	0.0	Bournemouth ...	...	50	43	o	0.0	0.0
Leamington Spa ...	...	46	39	od	op. c	0.0							
Malvern ...	...	47	40	g	gr	0.0							
Ross-on-Wye ...	...	48	39	bc	bcd	0.0							
Wales.													
Rhyl ...	...	46	38	o	o. c	0.0	Weymouth ...	...	52	46	op. c	0.0	0.5
Colwyn Bay ...	...	45	40	c. o	o	0.0	Torquay ...	...	53	49	op	c	0.5
Llandudno ...	...	...	...	...	...	...	Paignton ...	...	...	...	...	...	...
Aberystwyth ...	...	48	42	c. o	c. o	0.0	Falmouth ...	...	52	47	cq	0.0	0.5
Tenby ...	...	48	44	bc	bc. o	0.0	Penzance ...	...	52	46	op. bc	0.0	1.1
England, E.							Newquay ...	...	51	48	o	0.0	0.2
Cromer ...	...	45	38	c. c	c	0.0	Ilfracombe ...	...	52	45	op. c	0.0	0.1
Lowestoft ...	...	46	40	om	om. r	0.0	Weston-super-Mare ...	...	50	42	o. c	0.0	0.2
Felixstowe ...	...	...	...	...	...	...							
Walton-on-Naze ...	...	...	...	...	...	...							
Southend-on-Sea ...	...	46	43	o	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.	24 Hours ended 9 a.m. To-day.		Fore- noon.	After- noon.	Night.
	%	%	Hr.	° F.	° F.	° F.	mm. & .			
Greenwich (Royal Obs.) ...	93	93	0.0	47	43	35	0.3	o	o	0.0
City (Bunhill Row) ...	*	*	0.0	*	*	*	*	*	*	*
Westminster (St. James's Pk.)	94	94	0.0	49	45	37	0.2	me	me	0.0
Camden Sq. (Brit. Rainfall)	93	92	0.0	48	43	38	Trace	om	om. om	*
Hampstead (Reservoir) ...	*	94	0.0	46	42	33	0.3	o	op	om. c
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.)	89	91	0.0	70 Joules	2.5 Milliwatts	4 Milliwatts				

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

30 <sup>th</sup> Dec. 1915.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	8.6	11.56	3.46
Greenwich ...	8.6	11.56	3.46
Wick ...	8.8	12.3	3.58
Valencia ...	8.9	12.3	3.58
	9.5	12.15	3.24
	9.5	12.15	3.25
	9.51	12.44	4.37
	9.51	12.44	4.37

## NOTES ON YESTERDAY'S WEATHER.

Temperature again rose to 50° or above at several stations, and in most parts of England and Ireland the minima recorded were above 40°. Some precipitation was measured at most stations but the amount was generally slight.

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 td. at M.O. and at the bookstalls at certain Railway Termini in London.



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. No. 365.

FRIDAY,

31<sup>ST</sup> DECEMBER 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 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 ...	1007.3	42	SSE	6	omg	999.0	-3	45	+6	SSE	7	-	omg	6	2	45	38	omg	omg	omg	Hours.
	Deerness ...	1001.7	44	SE	6	og	992.2	-	45	+4	SE	7	-	og	6	2	45	42	og	og	og	0.0
	Stornoway ...	995.6	47	SSE	7	og	981.8	-7	49	+7	SE	6	-	og	6	2	49	41	og	og	og	1.5
	Castletown (Barra Is.)	994.6	47	E	6	o	976.6	-12	49	+4	ESE	8	-	og	7	7	49	44	og	og	og	0.0
	Glasgow ...	1001.2	46	SSE	2	orm	988.0	-9	46	+5	SE	4	-	orm	7	1	48	41	orm	orm	orm	0.0
	Eskdalemuir ...	1003.9	47	SSE	3	c	990.1	-11	47	+7	SSE	6	-	c	7	1	47	40	bc, o	od, o	c, bc, c	0.0
	Malin Head ...	994.0	43	S	4	bc	974.6	-14	46	+1	SE	7	-	omg	6	1	48	41	bc, o	bc	omg	3.5
	Blacksod Point ...	989.2	44	SSE	7	om	970.5	-6	46	0	SSE	8	S	bc, o	7	27	52	37	og	om	omg	0
	Valencia ...	988.7	48	SE	6	r	972.0	-9	48	+1	SSE	6	S	og	7	24	53	44	og	c, og	og	0.4
	Roche's Point ...	996.0	49	SSE	5	omg	982.2	-	50	+2	SW	7	-	o	6	8	52	47	bc, c	om, omg	od, o	2
	Birr Castle ...	994.3	48	SE	2	c	979.1	-	46	0	SE	4	-	c	5	3	52	43	c, bc	bc, c	og, c	2.7
	Donaghadee ...	998.3	47	SSW	3	cg, m	981.4	-11	50	+4	S	6	-	omg, og	5	4	50	46	bc, c	bc, c	c, omg	0
	Liverpool (Bidston) ...	1003.7	47	ESE	3	o	991.0	-8	51	+8	SE	4	SE	og	6	4	52	43	o, c	c, o	og	0.6
	Holyhead ...	1000.4	49	SSW	5	og	980.0	-10	51	+4	S	3	-	orm	8	16	52	44	og, p, h	og	og, om	0.3
	Pembroke (St. Ann's) ...	1001.5	46	SW	3	og	988.9	+3	47	-2	SSW	7	-	og, og	7	7	52	47	og, g	og, g	og, om	0.9
	Scilly (St. Mary's) ...	1001.1	51	S	5	c	991.5	+5	48	-2	S	6	S	omg, p	7	6	53	45	bc, c, p	og	omg, og	1.4
	Falmouth ...	1003.6	50	S	3	c	993.8	0	46	-3	SW	7	-	r	7	10	53	46	o, c	c, o, c	r, g	0.5
	Jersey (St. Aubin) ...	1009.3	50	S	4	c	1003.8	0	52	+4	SE	6	-	o	4	1	52	48	og, p	og, c	og	2.3
	Portland Bill ...	1005.9	49	S	5	c	999.1	-7	50	0	SSE	7	-	og	6	1	51	49	c, o	c, o	bc, c, o	0
	Dungeness ...	1011.6	48	SSE	6	b	1008.3	-5	48	+1	SSE	5	S	bc, o	5	-	49	47	bc, w	c, o, c	bc	0
Dover ...	1012.9	46	S	5	b	1008.9	-3	48	+1	S	6	S	o	6	-	48	45	o, c, bc, c	c, b	b, bc, c, o	0.0	
NORTHERN EUROPE.	Wick ...	1001.4	44	SE	5	o	992.0	-6	45	+3	SE	4	-	m	5	1	45	38	omg, m	omg	omg, p, d	0
	Nairn ...	1000.0	47	-	0	og	988.8	-	48	+8	S	3	-	m	2	-	48	38	bc, g, g	og	bc, o, c	2.0
	Aberdeen ...	1003.9	45	SSE	4	o	994.2	-7	45	+3	SSE	5	-	o	4	3	46	41	og, p, o	og	og, r, g	0
	Leith ...	1002.4	46	SE	1	c	991.5	-5	49	+6	SE	3	SE	o	3	-	50	42	c, bc	og, c	c, bc, o	0
	Tynemouth ...	1005.1	45	SE	4	omg	995.6	-7	48	+5	S	6	-	omg	5	-	48	42	om	omg	c, m, g	0
	Spurn Head ...	1003.6	44	SSW	6	og, p	1001.8	-2	44	+1	SSW	6	-	og	5	0.4	45	41	o, c, m	og, p	og, o, p	2.4
	Yarmouth ...	1011.8	46	WSW	4	c	1007.7	-6	45	+4	SSW	6	-	bc	5	-	47	40	bc, m	om	bc, m, bc	2.7
	Clacton-on-Sea ...	1012.3	45	SSW	4	bc	1007.7	-3	46	+1	SSW	5	SW	c	4	0.2	46	43	bc	bc, c, bc	bc, c, p	1.4
	Nottingham ...	1007.3	48	S	3	o	994.3	-	51	+10	S	5	S	o	4	1	51	40	bc	c, o, p	og	1.3
	Bath ...	1001.5	50	S	3	o	998.1	-	55	+7	S	5	SW	o	4	8	55	47	c, o, r	r, a, c	od, r, g	0.1
Sth Farnborough ...	1009.3	48	S	2	r	1003.2	-5	52	+7	S	6	-	ou	4	1	52	45	c, o, r, o	o	r, a, b, c, o	0.0	
London (Kew Obsy.) ...	1010.2	48	S	4	o	1004.3	-6	52	+7	S	6	S	c	4	0.3	52	44	o, c, m, o	o, m, o	o, c	0.2	
FRANCE, & C.	Spitsbergen ...	994.8	3	S	1	o	999.7	+1	7	+11	NW	6	-	o	0	-	7	-9				
	Vardö ...	997.7	19	SW	3	c	999.8	+1	23	+11	W	6	-	s	5	-	23	3				
	Bodö ...	1012.0	36	SW	4	r	1012.6	0	36	+8	SW	2	-	o	2	8	36	27				
	Christiansund ...	1017.3	26	SE	1	b	1011.7	0	36	-1	W	0	-	o	3	-	36	27				
	Skudesnaes ...	1017.2	32	SE	6	b	1011.9	-4	37	+12	SSE	3	-	o	5	-	32	25				
	Færder (K'iania Fjord) ...	1025.7	16	-	0	f	1023.5	-2	21	+3	ENE	1	-	f	4	-	21	14				
	The Scaw (Skagen) ...	1024.2	28	S	2	o	1021.9	-3	32	+7	SSE	3	-	o	3	-	32	25				
	Blaavands Huk ...	1018.7	34	SSE	4	r	1020.0	0	36	+2	SSE	3	-	s	2	1	36	32				
	Haparanda ...	1012.4	3	W	2	b	1014.7	+3	1	-6	SW	2	-	o	0	-	12	1				
	Hernösand ...	1020.1	19	NW	2	b	1018.7	-1	7	-21	SSW	2	-	b	0	-	32	5				
SOUTHERN EUROPE.	Stockholm ...	1022.0	10	W	1	b	1024.3	0	9	-9	-	0	-	b	0	-	18	5				
	Wisby ...	1024.8	23	W	2	c	1027.5	-2	25	0	WSW	4	-	o	4	-	27	21				
	Karlstad ...	1026.7	-8	-	0	b	1026.7	+1	-8	-8	-	0	-	o	0	-	-4	-9				
	Petrograd (5 a.m. G.M.T.) ...																					
	The Helder ...	1015.8	39	SSE	2	b	1013.7	-2	37	-6	SSE	4	-	b	2	-	45	36				
	C. Gris Nez ...	1013.5	44	S	4	b	1009.2	-4	47	+3	S	6	-	o	3	-	48	43				
	La Hève ...	1011.0	48	S	4	o	1008.2	-	46	+1	SE	6	-	c	3	-	50	43				
	Ushant ...																					
	Brest (St. Mathieu) ...	1008.4	51	SW	4	o	1001.2	-1	54	+3	SW	6	-	r	5	2	55	46				
	Rochefort (Ile d'Aix) ...	1015.0	50	SSW	4	b	1012.7	-1	47	+2	SSE	6	-	o	0	-	52	46				
	Biarritz ...	1017.2	55	SSW	2	c	1015.4	-1	57	+6	SSE	5	-	o	4	-	57	54				
	Paris ...	1017.0	41	SE	2	b	1016.0	-2	46	+1	SSE	2	-	o	0	-	48	39				
	Belfort ...	1019.7	44	-	0	r	1023.5	-	40	-4	-	0	-	c	0	-	46	37				
	Lyons ...	1020.3	45	NE	?	b	1023.5	-	36	-9	SSW	1	-	r	0	-	48	35				
	Nice ...	1019.8	47	-	0	c	1023.4	+2	44	-2	-	0	-	bc	2	13	50	43				
	Perpignan ...	1019.5	46	-	0	b	1021.6	0	36	-9	-	0	-	b	0	-	54	34				
	Sanguinaire ...																					
	Corunna (7 a.m.) ...	1013.6	59	SSW	6	bc	1011.9	+3	54	0	SW	6	-	r	4	13	61	52				
	Madrid (8 a.m.) ...	1023.4	48	W	1	o	1027.9	+3	41	+2	S	?	-	o	0	-	48	39				
	Lisbon (9 a.m.) ...																					
Gibraltar ...	1026.7	58	W	4	b	1028.1	-	58	+2	SW	4	-	c	3	-	56	54					
Rome ...																						
Malta (8 a.m.) ...																						
	Azores (Horta, 8 a.m.) ...	1005.2	-	W	6	o	1004.2	-4	62	0	SSW	9	-	o	7	7	63	59				
	Madeira (Funchal) ...	1023.5	63	W	3	r	1026.1	+2	61	+2	W	2	-	bc	2	7	66	61				

## GALES.

Duration and Extreme Force  
in British Islands.

Castletown: 30h - 31st.  
13h - 7h SSE, S.

Blacksod Point: 30h.  
7h - 11h SSW, S.  
31st, 7h SSE, S.

Roche's Point: 30h.  
23h to past midn. S, S.

Pembroke: 31st.  
4h - 7h S, S.  
Ext. 6h S, S.

Scilly: 31st.  
2h - 4h S, S.

Holyhead: 31st.  
7h S, S.

Aberdeen: 31st.  
6h. Gusts SE 19 m.p.s.

South Farnborough: -

Pilot Balloon Ascent: -

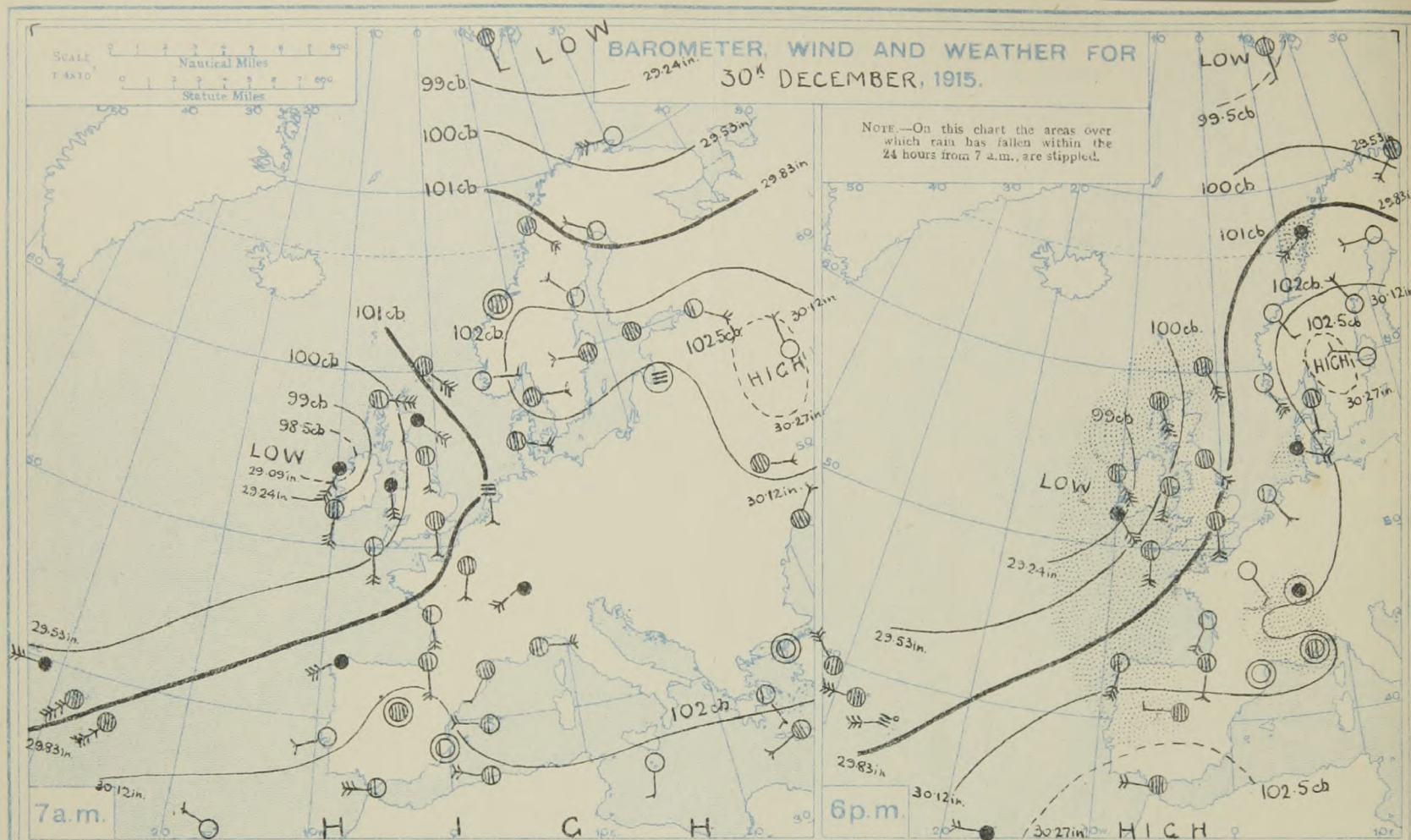
Wind at 500 metres S. 42. miles per hour.

\* Information for these columns not usually received.

† Received too late for insertion in Charts.

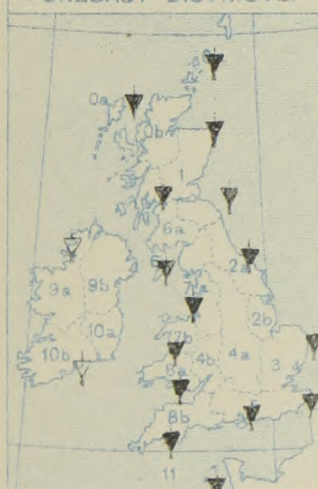
‡ The barometric change is expressed in half-millibars.





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

Warnings Issued.

172 Districts 9.4.10 at 7.15 p.m.

and in Districts 0-9.4.11 at 3.0 a.m.

Western Channel and Bay 11

0 { a } Strong Southerly winds or gales; dull, squally,  
b } some rain; mild.

1 { a } Strong Southerly winds or gales, then veering  
b } South-Westerly; dull, some rain; mild.

2 { a } Same as Nos. 0 to 2a.  
b }

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

4 { a } Southerly gales, veering South-Westerly; sea high;  
b } dull, some rain; mild.

FURTHER OUTLOOK.



## Scale of Tints for DECEMBER



## DAILY WEATHER REPORT.

Friday, 31st December, 1915.

REPORTS  
FOR  
YESTERDAY.

30th December, 1915.

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

STATIONS.	Rainfall.	TEMPERATURE.		WEATHER.		Sun- shine to 6 p.m.
		Max.	Min.	Forenoon.	Afternoon.	
Scotland.	mm. & °F.	°F.	°F.			Hr.
Oban ...	2	47	39	p	bc.	0.2
Banff ...	6	45	36	o.bc	bc.o	0.0
Carnoustie ...				*	*	
St. Andrews ...						
Eng. N.E.						
Harrogate ...	8	44	39	c	c.o	0.0
Skegness ...	12	45	40	b.bc.o	bc.o.bc	2.1
Eng. N.W.						
Morecambe ...	0.3	49	42	o.bc	bc.	0.1
Blackpool ...	1	48	42	c.o	o.	0.1
Southport ...	1	49	41	o.c.bc	c.c.bc	0.3
Midlands.						
Buxton ...	5	46	39	c	c.r	0.0
Leamington Spa ...	1	50	39	bc.cd	op.c	0.0
Malvern ...	3	49	44	p	p	0.0
Ross-on-Wye ...	1	51	40	o.bc	s.bc.	0.3
Wales.						
Rhyl ...	0.4	51	41			0.4
Colwyn Bay ...	1	51	44	bc	bc	0.9
Llandudno ...						
Aberystwyth ...	3	51	44	r.o.c	bc.o	1.5
Tenby ...	10	50	45	bc	bc.op	1.6
England, E.						
Cromer ...	0.1	47	40	c	c.	2.1
Lowestoft ...	1	45	42	bc	bc.	2.5
Felixstowe ...						
Walton-on-Naze ...	1	50	41	b.bc.c	c.bc.b	1.4
Southend-on-Sea ...						
England, S.E.						
Tunbridge Wells ...						
Margate ...	1	51	44	c	bc	0.1
Ramsgate ...	2	49	44	o.c	bc.	1.3
Hastings ...	0.2	49	46	op.bc.b	bc.	2.0
Bexhill-on-Sea ...						
Eastbourne ...	1	51	47	bc	bc.b	2.9
Seaford ...		47	47	o	o	0.0
Brighton ...	0.2	49	47	c.o	o.c.c	0.3
Worthing ...		49	45	bc	bc.	0.5
Littlehampton ...	1	49	43	bc.o	o.bc.	0.9
Bognor ...	1	50	46	bc	r	0.6
Southsea ...		53	47	bc	bc.	2.0
Bournemouth ...	3	50	47	or	o	0.1
England, S.W.						
Weymouth ...	4	51	49	o.c	c	0.0
Torquay ...	2	52	49	o.c	c.o	1.7
Paignton ...	4	52	48	o.c	o	0.5
Falmouth ...	6	51	47	o.c	c.o.c	0.5
Penzance ...	4	52	46	op.r.bc	c	1.0
Newquay ...	2	50	44	c.bc.c	o.c	0.9
Ilfracombe ...						
Weston-super-Mare ...	1	53	45	bc.b	bc	0.5

## 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.	Max.		Fore- noon.	After- noon.	Night.
Greenwich (Royal Obs.) ...	53	78	0.1	52	45	39	mm. & °F.	0	0	00.0
City (Bunhill Row) ...			0.0							
Westminster (St. James's Park) ...	87	85	0.2	53	47	41		me	me.	bc.m
Camden Sq. (Brit. Rainfall) ...	83	62	0.0	53	47	43		c.o	o.m	
Hampstead (Reservoir) ...		80	0.0	51	42	41		Trace	0	0
Richmond Park ...										
Kew. (See front page.)										
(Greenwich and Camden Square air temperatures are in Glaisher screens.)										
S. Kensington (Roof of M.O.)	85	79	0.0	52	Joules	5.4 Milli-watts.		19	Milli-watts.	

## 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.		°F.	°F.	°F.		Hr.
Darwen to 9 p.m.	1	46	40	34	o.c.u	0.0
Manchester "						
Birmingham "						
Oxford to 8 p.m.						
Teignmouth to 9 "						
Plymouth "						
S. Kensington (Museum Grounds to 6 p.m.)	Trace	51	44	34	o.c.b	0

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

	Sunrise.	Noon.	Sunset.
31st Dec. 1915.	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	8.6	12.36	3.46
Greenwich ...	8.8	12.3	3.58
Wick ...	7.5	12.15	3.25
Valencia ...	8.51	12.44	4.37

## NOTES ON YESTERDAY'S WEATHER.

Heavy rain fell in the west of Ireland, 27 mm. at Blacksod Point. Temperature was again very mild and rose to between 50° and 55° at many stations. Gales were experienced in the west of the British Isles during the night.

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.



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# 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.		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.	
1	Rome.	1017.7	52	SE	1	o	1015.9	-	52	+1	NE	1	-	o	*	12	52	43				
3	Petrograd	1003.0	27	SSW	2	o	997.1	-	25	-2	E	2	-	S	*	7	27	25				
	Lisbon	1020.3	62	S	4	o	1021.7	+3	63	+4	SSW	4	-	o	*	6	64	69				
	Rome	1020.0	57	SE	1	o	1019.5	-	55	+1	S	1	-	o	*	-	64	54				
	Funchal.	1017.7	66	WSW	4	o	1019.8	o	66	+2	WSW	5	-	o	*	3	70	64				
4	Petrograd	994.9	21	W	1	f	989.2	-	21	-4	E	3	-	S	*	3	27	19				
	Rome	1020.2	55	SW	1	c	1019.1	-	52	-3	-	o	-	o	*	-	63	52				
5	Petrograd	984.7	25	W	2	o	993.2	-	14	-7	NW	3	-	S	*	2	30	12				
	Rome.	1020.2	54	-	o	bc	1020.4	-	46	-6	NE	1	-	f	*	-	59	46				
6	Biarritz	997.3	69	SSE	3	o	1001.2	-	59	+1	SSW	3	*	r	2	-	70	57				
	Rome.	1020.0	52	-	o	o	1019.1	-	52	+6	E	1	-	o	*	-	59	46				
7	Rome.	1019.1	55	S	1	bc	1019.4	-	64	+2	-	o	-	o	*	-	89	52				
8	Skudeenoes	985.0	43	SE	4	o	979.8	-	39	o	SSE	3	-	c	4	2	43	37				
	Petrograd.	1005.1	9	E	4	o	974.4	-	12	+8	E	4	-	S	*	2	12	-5				
	Rome.	1019.0	57	S	1	o	1018.7	-	54	o	NE	1	-	o	*	-	61	52				
9	Petrograd.	997.7	12	E	3	S	986.9	-	16	+4	ENE	3	-	S	*	4	16	12				
10	Rome.	1019.5	55	-	o	bc	1021.6	-	54	+2	-	o	-	o	*	-	61	48				
11	Rome.	1022.9	57	-	o	o	1022.9	-	52	-2	-	o	-	b	*	-	59	52				
12	Haparanda	1011.3	-11	N	2	o	1010.0	-	-6	o	NE	2	-	o	*	-	-4	-11				
	Hernösand	993.0	16	N	2	o	998.1	-	12	+2	NW	8	-	S	*	2	19	10				
	Stockholm	981.3	28	N	4	S	995.1	-	32	+4	SE	6	-	o	*	20	34	27				
	Wibby	990.7	34	E	4	o	982.4	-	39	+7	WSW	8	-	o	*	16	41	30				
	Karlstad	990.0	28	ENE	4	S	986.1	-	25	+4	NE	4	-	S	*	22	30	18				
	Petrograd	1011.0	9	NW	2	o	1004.6	-	3	+2	ESE	4	-	o	*	-	9	o				
	Rome	1022.0	57	SE	1	o	1019.4	-	57	+5	SE	1	-	bc	*	-	59	52				
	Horta	1030.3	59	SSW	4	o	-	-	-	-	-	-	-	-	-	-	-	-				
13	Petrograd	990.4	18	ESE	4	S	992.2	-	32	+29	S	1	-	o	*	6	34	3				
	Rome.	1013.7	59	SSE	2	o	1009.9	-	55	-2	S	1	-	o	*	-	61	55				
14	Petrograd	993.3	23	SW	4	bc	999.0	-	9	-23	WNW	4	-	S	*	4	36	7				
	Rome.	1011.4	52	SW	1	o	1017.1	-	45	-10	N	1	-	o	*	2	59	45				
15	Petrograd	1009.0	10	NW	4	o	1013.6	-	3	-6	SSW	2	-	f	*	-	12	o				
	Rome.	1015.8	50	NE	2	c	1013.2	-	30	+5	NNE	3	-	o	*	5	52	48				
16	Petrograd	1019.0	3	SE	2	f	1011.5	-	12	+9	SE	3	-	S	*	2	12	-				
	Rome	1012.2	46	N	1	o	1011.9	-	41	-9	N	1	-	b	*	-	54	39				
	Funchal.	1020.8	64	N	2	o	1019.4	-	61	+2	N	3	-	o	*	3	64	59				
17	Petrograd	1017.6	16	NE	1	f	1019.4	-	21	+9	E	3	-	S	*	2	21	10				
	Rome.	1015.5	48	-	o	o	1017.0	-	50	+9	E	1	-	o	*	-	54	41				
18	Petrograd	1014.6	27	S	3	o	1013.2	-	30	+9	SW	3	-	o	*	1	30	19				
	Rome.	1015.4	54	E	1	o	1015.8	-	52	+2	SE	2	-	r	*	16	59	50				
19	Corunna	1013.6	52	NNE	3	c	1018.1	o	50	+7	NNE	6	-	c	S	2	54	43				
	Rome.	1014.4	57	E	1	o	1011.0	-	59	+7	SE	2	-	o	*	5	61	52				
20	Petrograd.	1007.1	17	NNW	4	o	1011.1	-	3	-27	NNW	2	-	S	*	-	-	3				
21	Petrograd	1013.9	5	W	2	o	1013.7	-	-8	-11	SW	2	-	o	*	-	5	-8				
	Rome.	1004.8	50	E	1	o	1006.4	-	46	-4	N	1	-	o	*	23	55	46				
22	Petrograd	1015.9	-5	NW	2	S	1018.6	-	-3	+5	NE	2	-	b	*	-	-3	-8				
	Rome.	1012.0	43	N	2	c	1012.2	-	43	-3	N	1	-	o	*	-	52	41				
23	Petrograd	1024.0	-8	ENE	4	S	1024.4	-	-8	-5	ENE	4	-	S	*	1	-1	-10				
	Rome.	1013.0	45	-	o	b	1014.4	-	36	-7	N	1	-	b	*	-	50	26				
24	Petrograd	1025.7	-11	E	3	o	1028.3	-	-18	-10	ESE	2	-	o	*	-	-8	-18				
	Rome.	1013.1	45	-	o	o	1011.0	-	45	+9	-	o	-	o	*	5	50	36				
25	Petrograd	1031.8	-16	SE	3	b	1030.9	-	-16	+2	E	3	-	b	*	-	-13	-20				
	Rome.	1010.3	50	-	o	b	1013.9	-	54	+9	SE	1	-	c	*	-	55	45				
26	Petrograd	1021.7	-1	E	2	o	1012.8	-	3	-19	E	3	-	S	*	-	22	-16				
	Rome.	1013.0	55	S	1	c	1014.7	-	55	+1	SW	2	-	b	*	-	59	54				
27	Petrograd	1010.6	5	NNE	2	b	1013.7	-	o	-3	N	2	-	b	*	1	-	-				
	Rome.	1020.8	50	E	1	b	1025.3	-	41	-14	N	1	-	b	*	-	59	39				
28	Petrograd	1019.8	-1	ENE	3	b	1021.7	-	-5	-5	ENE	3	-	b	*	-	52	43				
	Nice	1025.3	45	-	o	bc	1023.8	-	47	+3	-	o	-	o	*	2	52	43				
	Rome.	1027.4	50	SE	1	c	1026.3	-	46	+5	NE	1	-	o	*	-	57	41				
29	Petrograd	1023.0	-10	E	3	b	1024.7	-	-15	-10	E	3	-	b	*	10	-5	-15				
	Sanguinaire	*	58	W	1	o	*	*	54	+4	N	1	-	o	*	3	61	48				
	Rome.	1021.9	52	-	o	bc	1020.2	-	46	o	NE	1	-	c	*	-	57	43				
30	Rome.	1018.1	54	-	o	o	1018.6	-	48	+2	NE	1	-	b	*	-	55	46				
31	Petrograd	1019.0	5	W	2	S	1021.3	-	12	+27	W	2	-	o	*	1	12	-15				
	Sanguinaire	*	56	S	2	r	*	*	52	-2	SE	2	-	o	*	3	61	48				
	Rome.	1020.6	52	-	o	o	1022.7	-	48	-2	N	1	-	o	*	-	59	45				



## REPORTS FOR DECEMBER, 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.		Direc. of Upper Cloud.	Weather.	Sea 9-9.	Rain- fall, Milli- metres.	TEMP.		WEATHER.			
				Force 0-12.	Direc.		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.
1	Leith.																					
	Christiansund.	997.3	37	E	H	0													c. bc. c	bc. or.		
	Foerder.	998.0																				
2	Aberdeen																			bemp		
	Tynemouth.			NNE																		
	Haparanda.														-							
	Wisby.	1004.6																				
3	Roche's Point.																	26				
4	Roche's Point.	999.4			3	0																
	Holyhead.			W																		
	Pembroke.															7						
	Cleaton-on-Sea.									S												
5	Deerness.																		29		4.2	
	Spurn Head.															28						
	Vardø.		25													25						
	Skudesnaes.															-						
	Madrid.									NE	1											
6	Lerwick.	1002.8																				
	Holyhead.									WNW												
	Wick.	998.6																19				
	South Farnborough.			SE																		
	La Hève.						986.3							b								
7	Deerness.																					
	Malin Head.							40														
	Blackod Point.																					
	Leith.						983.1															
	Bodø.																					
	Stockholm.						983.9															
8	Lerwick.			NE																		
	Deerness.						982.0															
	Portland Bill.							49	-1									47				
	Lyons.							51	+2													
	Lisbon.														6							
9	Falmouth.																				0.9	
10	Glasgow.																			0.3. 15. r		
	Malin Head.						981.4	-3	45	+11	S	2	-	omr	4	17	45	34		omr	0.0	
11	Malin Head.	984.5	47	SW	3	omr	987.3	+1	44	-1	NW	8	-	omr q	7	9	50	29	cnp	omr	0.2	
	Valencia.																52				0.7	
	Wisby.						997.9															
12	Wick.													ophsel								
	Cleaton-on-Sea.																	23				
	Skudesnaes.																					
13	Aberdeen																			chsqt		
	Skudesnaes.																					
	Haparanda.																	-8				
	C. Gris Nez.																38	36				
14	Blackod Point.																	248				
	Falmouth.																		bc			
	Yarmouth.		23																			
	Nottingham.		36																			
	Skudesnaes.																					
	La Hève.						1023.6															
	Lyons.	1028.0					1031.0															
	Nice.	1008.3																				
	Malin Head.		40																			
15	Stornoway.					bc																
	Leith.						1002.9															
	Skudesnaes.	1008.7																				
	Haparanda.																16					
16	Castlebay.				3																	
17	Holyhead.												cr						bc. cph.			
	Bodø.																					
	Foerder.															6						
	Rocheport.															6						



## 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.	Min.	Morning.	Afternoon.	Night.		
	Lyons								40								47						
	Madrid								36	+4				S			50	32					
18	Valencia.															0.2							
	Roche's Point.																			o.b			
	Nairn																				q.h.p.c		
19	Lerwick																	31					
	Deerness																	35					2.0
	Sreudnesses																						
21	Deerness															15							
	Clacton-on-Sea.															5							
22	Blackhead Point.										W.S.W.												
	Pembroke.		49.						50	+2.													
	Horta.							1028.8															
23	Lerwick																4						
	South Farnborough.							996.1													bcg.p	op	
24	Roche's Point.																						
25	Dungeness				7																		
27	Roche's Point																			b.b.c.c.			
	Dungeness							1002.3															
	Nairn																			bed.c.			
	Hernösand.															Trace							
28	Dungeness																						
	Belfort.		46.																				
29	Pembroke		1007.3	44																			
	Bath.																						
30	Deerness																						
31	Glasgow																						c.b.ogp.
	La Hève		1011.0.																				
ADDITIONS																							
to																							
X <u>NOVEMBER</u>																							
DAY																							
13	Blackhead Point.							1005.5	+3	40	+4	N	3	N	bc	5	8	44	35			q.p.bc	*
	Roche's Point.							1008.0		38	-15	W	4	-	o	4	31	54	34			n.op.	*

LONDON OBSERVATIONS.

## GALES

STATIONS.		HUMIDITY.		Sun- shine for Yester- day.	TEMPERATURE.			Rain- fall.	WEATHER.			Duration and Extreme Force in British Islands			
		3 p.m. Yester- day.	9 a.m. To- day.		In Screen.		Min. on Grass.		Fore- noon.	After- noon.	Night.	Date.	ADDITIONS.	Date.	CORRECTIONS.
					Max.	Min.									
		24 HOURS ENDED 9 A.M. TO-DAY.													
1	Westminster	%	%	Hr.	* F.	* F.	* F.	n.m.g				7	<u>Blacksed Point</u>	6	<u>Aberdeen</u>
2	Richmond Park	.	.	0.0	43	.	.	.	.	.	.		6th 9 p.m. - 7th 7 a.m. WSW 8		Gusts ESE 19 mps.
3	Camden Square	.	.	0.2	.	.	.	.	.	.	.		Ex WSW 10 @ 9 p.m.	8	<u>Blacksed Point</u>
5	Hampstead	.	89	.	.	38	.	.	.	.	.		Ex NW 9 @ 6 a.m.		7th 7 a.m. - 7 p.m. WSW 8.
6	Hampstead	.	.	.	.	.	.	.	.	.	.		11th 5 a.m. - 7 a.m. NW 8	10	<u>Malin Head</u>
7	Richmond Park	.	.	2.7	.	.	.	.	be	bcm	bm	11	<u>Malin Head</u>		9th 4 p.m. - 10th 11 a.m. SE 8
9	Hampstead	.	92	3.2	48	30	17	-	.	.	.		27th 6 a.m. - 7 a.m. WSW 8.	13	<u>Blacksed Point</u>
10	Richmond Park	.	.	5.6	.	38	32	.	.	.	.		27th 7 a.m. - 5 p.m. NNE 8.	23	<u>Blacksed Point</u>
10	Hampstead	.	.	.	.	.	.	.	.	.	.		27th 7 a.m. - 5 p.m. NNE 8.		22nd Midt. - 23rd 7 a.m. WNW 8
11	Richmond Park	.	.	0.0	.	.	.	.	.	.	.		27th 7 a.m. - 5 p.m. NNE 8.	27	<u>Blacksed Point</u>
11	Richmond Park	.	.	0.0	.	.	.	.	.	.	.		27th 4 a.m. - 7 a.m. NNE 8.		29th 2 p.m. - 30th 7 a.m. E - SSW 8
18	Richmond Park	.	.	0.3	.	.	.	.	.	.	.		29th 2 p.m. - 30th 7 a.m. E - SSW 8	30	<u>Blacksed Point</u>
18	Westminster	.	.	0.0	.	.	.	.	.	.	.		30th 7 p.m. - 31st 7 a.m. SSE 8.	31	<u>Blacksed Point</u>
6	Richmond Park	.	.	0.0	.	.	.	.	.	.	.				
6	Hampstead	.	92	.	.	.	.	.	.	.	.				
17	Richmond Park	.	.	0.0	.	.	.	.	.	.	.				
17	City	.	.	1.0	.	.	.	.	.	.	.				
18	Camden Square	.	.	.	.	.	.	.	.	.	.				
18	Richmond Park	.	.	1.5	.	.	.	.	.	c.c.p	.				
19	Richmond Park	.	.	0.0	.	.	.	.	.	.	.				
20	Richmond Park	.	.	0.0	.	.	.	.	.	.	.				
21	City	.	.	2.1	.	.	.	.	.	.	.				
22	Richmond Park	.	.	0.0	.	.	.	.	.	.	.				
24	Richmond Park	.	.	0.6	.	.	.	.	.	.	.				
25	South Kensington	.	.	2.8	.	.	.	.	.	.	.				
25	Westminster	81	91	0.2	55	45	39	12	be	bc or	or				
26	Camden Square	.	.	2.1	.	.	.	.	.	.	.				
27	Richmond Park	.	.	0.4	.	.	.	.	.	.	.				
28	Richmond Park	.	.	0.4	.	.	.	.	.	.	.				