METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS.

1ST JULY TO 31ST DECEMBER,

1891.

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DAILY WEATHER REPORT.

July to December 1891.

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DAILY WEATHER REPORT,

JULY TO DECEMBER, 1891.

PREFACE.

The four Tables following give the Means for Pressure, Temperature, and Rainfall, with which the current Values in the Daily Weather Report may be compared.

TABLE I.—SHOWING FOR THE TELEGRAPHIC REPORTING STATIONS THE MEAN VALUES OF BAROMETRIC PRESSURE FOR EACH MONTH AND FOR THE WHOLE YEAR—DERIVED FROM OBSERVATIONS MADE AT 8 A.M. DAILY DURING THE 20 YEARS 1871—90.

STATIONS.	JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.	AUGUST.	SEPT.	OCT.	NOV.	DEC.	ANNUAL	LIMITS OF YEARS OF ACTUAL OBSERVATION.	NO. OF YEARS.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		
Sumburgh Head .	29·675	29·775	29·751	29·840	29·879	29·883	29·784	29·781	29·797	29·726	29·683	29·673	29·771	1872—1890	19
Stornoway -	29·682	29·773	29·778	29·824	29·886	29·876	29·795	29·796	29·815	29·756	29·699	29·705	29·782	1873—1890	18
Wick - -	29·719	29·804	29·793	29·848	29·901	29·898	29·806	29·810	29·829	29·763	29·722	29·718	29·801	1871—1890	20
Nairn - -	29·745	29·814	29·810	29·848	29·908	29·904	29·815	29·819	29·843	29·779	29·738	29·743	29·814	„ „ „	20
Aberdeen -	29·787	29·848	29·825	29·858	29·918	29·916	29·826	29·832	29·858	29·793	29·758	29·767	29·832	„ „ „	20
Leith - -	29·825	29·870	29·853	29·863	29·932	29·930	29·844	29·849	29·881	29·822	29·789	29·807	29·855	„ „ „	20
Shields - -	29·881	29·906	29·880	29·866	29·943	29·948	29·867	29·871	29·903	29·846	29·813	29·845	29·881	„ „ „	20
Spurn Head -	29·926	29·934	29·896	29·863	29·956	29·964	29·900	29·905	29·929	29·867	29·842	29·873	29·905	1880—1890	11
York - -	29·932	29·939	29·908	29·875	29·962	29·969	29·901	29·906	29·939	29·882	29·846	29·890	29·912	1873—1890	18
Loughborough -	29·967	29·963	29·932	29·879	29·973	29·980	29·928	29·928	29·959	29·904	29·877	29·924	29·935	1871—1890	20
Ardrossan -	29·838	29·873	29·865	29·857	29·935	29·932	29·856	29·857	29·885	29·831	29·791	29·820	29·862	„ „ „	20
Mullaghmore -	29·817	29·854	29·872	29·839	29·929	29·936	29·869	29·868	29·890	29·845	29·780	29·821	29·860	1879—1890	12
Donaghadee -	29·856	29·884	29·882	29·859	29·947	29·946	29·877	29·879	29·905	29·850	29·810	29·848	29·879	1873—1890	18
Liverpool -	29·924	29·934	29·911	29·867	29·961	29·966	29·906	29·906	29·935	29·879	29·851	29·895	29·911	1871—1890	20
Holyhead -	29·902	29·914	29·907	29·857	29·956	29·966	29·910	29·907	29·929	29·872	29·835	29·879	29·903	„ „ „	20
Parsonstown -	29·895	29·906	29·925	29·864	29·958	29·972	29·913	29·920	29·937	29·897	29·847	29·901	29·911	1873—1890	18
Valencia - -	29·887	29·919	29·925	29·854	29·963	29·975	29·935	29·927	29·947	29·896	29·865	29·905	29·917	1871—1890	20
Roche's Point -	29·908	29·916	29·927	29·851	29·959	29·973	29·932	29·927	29·946	29·892	29·865	29·912	29·917	„ „ „	20
Pembroke -	29·936	29·937	29·929	29·852	29·961	29·974	29·936	29·928	29·948	29·888	29·864	29·916	29·922	„ „ „	20
Scilly - -	29·969	29·959	29·947	29·856	29·974	29·996	29·974	29·962	29·971	29·910	29·897	29·951	29·947	„ „ „	20
Prawle Point -	30·006	29·993	29·965	29·876	29·992	30·007	29·987	29·975	29·998	29·931	29·914	29·970	29·968	1879—1890	12
Jersey - -	30·022	30·007	29·961	29·872	29·989	30·010	30·001	29·984	29·988	29·925	29·928	29·985	29·973	1876—1890	15
Hurst Castle -	30·002	29·986	29·954	29·871	29·982	29·998	29·968	29·965	29·991	29·922	29·902	29·958	29·958	1874—1890	17
Dover - -	30·012	29·985	29·938	29·864	29·970	29·982	29·957	29·949	29·970	29·916	29·893	29·953	29·949	1871—1890	20
London - -	30·006	29·989	29·950	29·878	29·981	29·992	29·957	29·954	29·978	29·923	29·898	29·954	29·955	„ „ „	20
Oxford - -	29·999	29·985	29·951	29·884	29·981	29·986	29·946	29·948	29·971	29·924	29·896	29·955	29·952	„ „ „	20
Cambridge -	29·993	29·979	29·941	29·880	29·976	29·985	29·937	29·937	29·965	29·912	29·887	29·941	29·944	1873—1890	18
Yarmouth -	29·979	29·964	29·920	29·872	29·967	29·977	29·929	29·928	29·948	29·894	29·865	29·916	29·930	1871—1890	20

NOTE:—When the records available have not extended over the whole of the period 1871-90, the following rules have been observed for purposes of interpolation:—

(1) Where the observations available have not covered a period of eleven years or more they have been rejected.

(2) When the observations have covered a period of eleven years, or more, the means have been reduced to their approximate values for the whole period by comparison with the values at adjacent stations.

At Malin Head and Belmullet the observations are insufficient in point of duration to obtain proper averages.

TABLE II. — SHOWING FOR THE TELEGRAPHIC REPORTING STATIONS THE ME LUES O
MONTH AND FOR THE WHOLE YEAR, DERIVED FR SERVATI

STATIONS.	JANUARY.		FEBRUARY.		MARCH.		APRIL.		MAY.		JUNE.		JULY.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet	ry.	W
	°	°	°	°	°	°	°	°	°	°	°	°	°	
Sumburgh Head	39·7	38·4	38·5	37·4	38·3	36·9	41·7	40·2	46·1	44·0	50·3	48·6	531	5
Stornoway	39·5	38·4	39·1	38·1	39·1	38·1	43·8	42·3	48·6	46·4	53·3	51·1	555	5
Wick	38·2	36·8	38·1	36·7	39·0	37·2	43·1	41·2	48·1	45·6	53·3	50·7	558	5
Nairn	37·2	35·6	37·1	35·4	38·0	36·2	42·7	40·4	48·6	45·4	54·3	50·6	567	5
Aberdeen	37·3	35·6	37·3	35·7	38·5	36·5	43·2	40·7	48·9	45·4	54·8	50·8	575	5
Leith	38·6	37·2	38·6	37·1	39·5	37·7	44·1	41·7	50·1	46·7	55·9	52·3	584	5
Shields	38·2	36·9	38·6	37·3	39·4	37·8	43·5	41·4	49·0	46·0	54·8	51·7	583	5
Spurn Head	37·7	36·7	38·4	37·6	39·7	38·4	44·0	42·3	49·3	47·2	55·3	52·8	595	5
York	36·7	35·7	37·5	36·4	38·5	37·0	43·8	41·6	49·8	46·7	56·2	52·7	592	5
Loughborough	36·4	35·4	37·5	36·4	39·0	37·3	44·4	42·1	51·1	47·7	57·8	53·9	614	5
Ardrossan	40·0	38·8	39·4	38·2	40·1	38·5	44·4	42·1	49·5	46·7	55·1	52·1	573	5
Mullaghmore	41·6	40·4	42·0	40·3	41·9	40·2	45·3	43·0	50·2	47·4	54·9	52·0	572	5
Donaghadee	40·0	39·2	40·3	39·3	40·8	39·5	44·6	42·9	49·6	47·5	55·0	52·8	574	5
Liverpool	38·6	37·0	38·9	37·3	40·3	38·2	45·0	42·1	50·8	46·9	56·7	52·7	594	5
Holyhead	41·7	40·3	41·5	40·1	42·0	40·5	45·8	43·8	50·5	48·0	55·7	53·2	581	5
Parsonstown	38·9	37·8	39·4	38·1	40·4	38·8	45·0	42·5	51·0	47·8	56·0	52·0	581	5
Valencia	44·5	43·3	44·6	42·9	44·9	42·8	48·2	45·6	52·8	49·7	57·2	54·3	589	5
Roche's Point	43·2	41·9	43·1	41·6	43·3	41·5	46·8	44·5	51·7	48·8	56·8	53·0	588	5
Pembroke	42·7	41·3	42·1	40·9	42·1	40·3	45·2	43·4	49·9	47·7	55·2	53·3	580	5
Scilly	46·4	44·9	46·0	44·4	46·0	44·2	48·6	46·6	52·7	50·3	57·3	55·2	602	5
Prawle Point	42·0	41·0	41·5	40·5	42·6	41·2	46·2	44·6	51·4	49·4	56·9	54·1	596	5
Jersey	41·8	40·4	42·3	41·0	44·0	42·0	48·5	45·9	53·6	50·5	58·6	55·1	620	5
Hurst Castle	40·3	39·5	40·3	39·3	41·0	40·1	45·5	44·2	51·6	49·9	57·7	55·4	611	5
Dover	39·2	38·1	39·2	38·1	40·7	39·2	46·3	44·0	52·5	49·3	58·2	54·1	619	5
London	37·6	36·6	38·6	37·4	40·1	38·2	46·1	43·2	52·5	48·5	58·9	54·1	620	5
Oxford	37·1	36·1	37·9	36·8	38·9	37·4	44·4	42·1	50·6	47·5	56·8	53·3	609	5
Cambridge	36·2	35·4	37·3	36·2	38·9	37·5	45·2	43·0	51·7	48·5	58·1	54·1	613	5
Yarmouth	37·5	36·7	38·2	37·3	40·2	38·6	44·7	43·0	50·6	48·1	56·9	54·1	609	5

NOTE —When the records available have not extended over the whole of the period 1871 to 1890, wing rules h

(1) Where the observations available have not covered a period of eleven years or more they h n rejected.

(2) When the observations have covered a period of eleven years or more the means have b uced to their

At Malin Head and Belmullet the observations ffficient in po

UES OF THE DRY BULB AND WET BULB TEMPERATURES FOR EACH

ERVATIONS MADE AT 8 A.M. DAILY DURING THE 20 YEARS 1871-90.

NE.	JULY.		AUGUST.		SEPTEMBER.		OCTOBER.		NOVEMBER.		DECEMBER.		ANNUALS.		Limits of Years.	Number of Years.
W	y.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.		
	°	°	°	°	°	°	°	°	°	°	°	°	°	°		
4	1	51·5	53·4	51·7	50·8	49·1	46·0	44·3	42·0	40·3	39·6	38·1	45·0	43·4	1871—1890	20
5	5	53·6	54·9	53·2	51·4	50·1	45·6	44·5	41·7	40·7	39·4	38·5	46·0	44·6	1873—1890	18
5	8	53·5	55·2	53·2	51·9	50·0	46·3	44·6	41·4	39·8	38·1	36·8	45·7	43·8	1871—1890	20
5	7	53·3	55·5	52·7	51·3	48·9	44·8	42·9	39·8	38·2	37·1	35·6	45·3	42·9	„ „	20
5	5	53·9	56·5	53·4	52·1	49·7	45·6	43·6	40·5	38·7	36·9	35·2	45·8	43·3	„ „	20
5	4	54·9	57·5	54·4	53·2	50·8	46·7	44·9	41·7	40·0	38·5	37·0	46·9	44·6	„ „	20
5	3	55·0	57·2	54·5	53·1	51·0	47·2	45·4	42·1	40·5	38·3	36·9	46·6	44·5	„ „	20
5	5	56·8	58·8	56·6	55·5	53·8	48·8	47·3	43·2	41·9	38·8	37·7	47·4	45·8	1880—1890	11
5	2	55·9	57·7	55·0	52·9	51·1	45·9	44·5	40·6	39·3	36·4	35·4	46·3	44·3	1873—1890	18
5	4	57·6	59·3	56·9	54·0	52·2	45·9	44·6	40 5	39·3	36·3	35·4	47·0	44·9	1871—1890	20
5	3	54·6	57·2	54·8	53·5	51·4	47·8	45·8	43·1	41·3	40·0	38·7	47·3	45·3	„ „	20
5	2	54·4	57·3	54·5	54·0	51·6	49·1	46·9	45·1	43·1	42·2	39·8	48·4	46·1	1879—1890	12
5	4	55·5	56·9	55·3	53·5	52·3	47·8	46·6	43·2	42·0	40·2	39·3	47·4	46·0	1873—1890	18
5	4	55·6	58·5	55·2	54·5	51·9	47·8	45 8	42·5	40·7	38 8	37·1	47·7	45·0	1871—1890	20
5	1	55·8	58·4	56·2	55·7	53·5	50·3	48·3	45·8	44·0	42·8	41·1	49·0	47·1	„ „	20
5	1	54·8	57·3	55·2	53·0	51·1	46·2	44·5	41·9	40·2	37·8	36·6	47·1	45·0	1873—1890	18
5	9	56·4	59·3	56·9	56·5	54·2	51·4	49·2	47·4	45·5	44·6	42·4	50·9	48·6	1871—1890	20
5	8	55·9	58·9	56·3	55·5	53·4	50 2	48·3	46·1	44·5	42·9	41·5	49·8	47·7	„ „	20
5	0	56·0	58·6	56·5	55·1	53·9	51·2	49·2	46·9	45·1	43 6	42·2	49·3	47·5	„ „	20
5	2	58·1	60·9	58·8	58·4	56·3	53·7	51·6	50·0	48·0	47·0	45·1	52·3	50·3	„ „	20
5	6	57·3	60·1	57·9	57·0	55·2	51·2	49·6	46·2	44·7	42·5	41·1	49·8	48·1	1879—1890	12
5	0	58·9	62·8	59·6	59·9	57·0	53·3	50·7	47·7	45·8	43·1	41·4	51·5	49·1	1871—1890	20
5	1	58·8	61·0	58·9	57·1	55·7	50·8	49 2	44·9	44·0	40·6	39·8	49·3	47·9	1874—1890	17
5	9	58·4	62·0	58·6	57·7	55·2	50·2	48·2	44·3	42·8	39·8	38·6	49·3	47·1	1871—1890	20
5	0	57·8	60·9	57·3	55 8	53·5	47·5	45·9	42 2	40·8	37·8	36·7	48·3	45·9	„ „	20
5	0	56·6	58·8	56·0	54·0	52·1	46·2	44·9	41·2	40·0	37·0	35·9	46·9	44·9	„ „	20
5	3	57·7	60·0	57·1	54·6	53·0	46 4	45·3	40 7	39·9	36·2	35·5	47·2	45·3	1873—1890	18
5	9	57·8	60·5	57·6	56·3	54·4	49 0	47·6	43·1	42·0	37·9	37·0	48·0	46·2	1871—1890	20

1890 ving rules have been observed for purposes of interpolation :—

they rejected.

have ced to their approximate values for the whole period by comparison with the values at adjacent and similarly exposed Stations.

ations ficient in point of duration to obtain proper averages.

TABLE III.—SHOWING FOR THE TELEGRAPHIC REPORTING STATIONS THE MEAN VALUES OF THE DAILY

FOR EACH MONTH AND FOR THE WHOLE YEAR—DERIVED

STATIONS.	JANUARY.			FEBRUARY.			MARCH.			APRIL.			MAY.			JUNE.		
	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
Sumburgh Head	42·9	35·6	39·3	42·4	34·5	38·5	42·6	33·9	38·3	46·0	36·7	41·4	50·3	40·2	45·3	54·6	45·0	49·8
Stornoway	43·3	34·5	38·9	43·5	34·6	39·1	44·9	34·5	39·7	48·9	37·2	43·1	53·3	41·1	47·2	58·0	45·9	52·0
Wick	42·4	33·3	37·9	43·1	33·2	38·2	44·8	34·0	39·4	48·9	36·9	42·9	53·9	40·6	47·3	58·9	45·5	52·2
Nairn	42·2	32·9	37·6	43·4	33·4	38·4	45·6	33·9	39·8	50·9	37·3	44·1	56·3	42·2	49·3	62·2	47·8	55·0
Aberdeen	42·4	33·2	37·8	43·2	33·8	38·5	45·4	34·4	39·9	49·3	38·0	43·7	55·0	41·9	48·5	61·2	47·2	54·2
Leith	44·4	33·7	39·1	45·7	34·3	40·0	47·9	34·6	41·3	52·0	37·9	45·0	57·8	42·4	50·1	63·9	47·9	55·9
Shields	43·0	34·2	38·6	43·8	35·1	39·5	45·9	35·2	40·6	49·0	38·6	43·8	54·4	42·9	48·7	60·6	48·7	54·7
Spurn Head	41·7	34·5	38·1	42·3	35·9	39·1	44·7	36·6	40·7	48·4	40·3	44·4	54·3	45·1	49·7	60·4	51·4	55·9
York	42·7	32·5	37·6	44·6	33·9	39·3	48·1	34·0	41·1	53·5	37·7	45·6	59·6	42·2	50·9	66·1	48·4	57·3
Loughborough	43·0	32·3	37·7	45·3	33·9	39·6	49·5	34·2	41·9	55·1	38·1	46·6	61·7	42·6	52·2	68·6	49·0	58·8
Ardrossan	44·2	36·3	40·3	44·6	36·3	40·5	46·3	36·3	41·3	51·5	39·5	45·5	56·5	43·9	50·2	62·0	49·5	55·8
Mullaghmore	46·1	38·0	42·1	46·6	38·6	42·6	47·9	38·4	43·2	51·9	42·3	47·1	56·7	46·3	51·5	61·1	51·4	56·3
Donaghadee	44·4	36·1	40·3	45·5	36·9	41·2	47·2	37·1	42·2	51·0	40·0	45·5	56·0	44·2	50·1	61·2	49·3	55·[illegible]
Liverpool	43·5	35·2	39·4	44·5	36·2	40·4	47·0	36·8	41·9	52·6	40·4	46·5	58·0	45·0	51·5	63·8	50·9	57·4
Holyhead	45·6	38·7	42·2	45·5	38·7	42·1	47·2	38·9	43·1	51·4	42·0	46·7	56·2	46·2	51·2	61·6	51·5	56·6
Parsonstown	45·6	34·2	39·9	46·9	35·6	41·3	49·8	35·0	42·4	54·6	38·0	46·3	59·5	42·7	51·1	64·5	48·5	56·[illegible]
Valencia	49·5	40·4	45·0	49·7	40·7	45·2	51·1	40·2	45·7	53·9	42·8	48·4	58·1	46·3	52·2	62·2	51·1	56·7
Roche's Point	47·7	39·5	43·6	48·4	39·6	44·0	49·7	39·6	44·7	53·7	42·1	47·9	58·9	46·2	52·6	64·5	51·1	57·8
Pembroke	45·5	39·6	42·6	45·5	39·4	42·5	46·6	39·1	42·9	50·4	41·9	46·2	55·0	45·9	50·5	60·3	51·5	55·9
Scilly	48·8	42·9	45·9	48·9	42·8	45·9	49·5	42·5	46·0	52·1	44·7	48·4	56·3	48·2	52·3	61·3	53·0	57·[illegible]
Prawle Point	46·2	37·6	41·9	46·8	38·1	42·5	48·1	37·7	42·9	51·9	40·7	46·3	56·6	45·3	51·0	61·5	50·5	56·[illegible]
Jersey	45·8	38·3	42·1	46·9	39·3	43·1	49·5	39·9	44·7	54·2	43·5	48·9	59·4	47·2	53·3	64·6	52·5	58·[illegible]
Hurst Castle	45·0	36·3	40·7	45·7	36·7	41·2	47·8	37·2	42·5	52·1	41·0	46·6	58·6	45·7	52·2	64·2	51·9	58·[illegible]
Dover	43·5	35·8	39·7	44·4	36·1	40·3	46·4	36·9	41·7	51·1	41·5	46·3	57·0	46·7	51·9	63·0	52·5	57·[illegible]
London	44·1	33·8	39·0	45·8	35·1	40·5	50·0	35·4	42·7	56·0	39·7	47·9	62·3	44·4	53·4	69·1	50·6	59·[illegible]
Oxford	43·1	33·6	38·4	45·0	34·9	40·0	49·0	34·9	42·0	54·0	38·9	46·5	60·6	43·4	52·0	66·9	49·5	58·[illegible]
Cambridge	43·3	31·7	37·5	45·5	32·8	39·2	50·2	33·0	41·6	55·8	37·3	46·6	62·0	42·0	52·0	68·6	48·5	58·[illegible]
Yarmouth	41·5	33·8	37·7	42·6	34·5	38·6	45·2	34·9	40·1	49·1	39·9	44·5	55·4	44·9	50·2	62·0	51·1	36·[illegible]

NOTE:—When the records available have not extended over the whole of the period, 1871-90, the

(1) Where the observations available have not covered a period of eleven years or more, they have

(2) When the observations have covered a period of eleven years or more, the means have been

At Malin Head and Belmullet the observations

MAXIMUM AND MINIMUM TEMPERATURES, AND OF THE MAXIMUM AND MINIMUM COMBINED, FROM OBSERVATIONS EXTENDING OVER THE 20 YEARS 1871—1890.

JULY.			AUGUST.			SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER.			ANNUALS.			Limits of Years.	Number of Years.
Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.		
°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°		
57·4	48·0	52·7	57·7	48·4	53·1	55·0	46·1	50·6	49·8	41·6	45·7	45·6	37·8	41·7	42·6	35·2	38·9	48·9	40·3	44·6	1871—90	20
60·2	48·9	54·6	59·8	48·8	54·3	56·3	45·8	51·1	51·0	40·5	45·8	46·2	37·0	41·6	43·1	34·2	38·7	50·7	40·3	45·5	„ „	20
61·8	48·7	55·3	61·1	48·3	54·7	57·7	45·5	51·6	51·7	40·5	46·1	46·1	36·1	41·1	42·2	32·7	37·5	51·1	39·6	45·4	1872—90	19
64·3	50·9	57·6	63·4	50·3	56·9	59·2	46·5	52·9	51·9	40·8	46·4	45·3	35·7	40·5	41·9	32·8	37·4	52·2	40·4	46·3	1871—90	20
63·9	50·6	57·3	63·1	50·1	56·6	59·2	46·7	53·0	52·5	41·4	47·0	46·2	36·5	41·4	41·9	32·6	37·3	51·9	40·5	46·3	„ „	20
66·7	51·2	59·0	65·7	51·3	58·5	61·9	47·5	54·7	54·7	41·8	48·3	48·1	37·0	42·6	44·0	33·7	38·9	54·4	41·1	47·8	„ „	20
64·1	52·2	58·2	63·6	51·9	57·8	59·8	48·8	54·3	53·2	42·7	48·0	47·3	37·9	42·6	42·9	33·9	38·4	52·3	41·8	47·1	„ „	20
65·1	55·2	60·2	64·3	55·0	59·7	60·4	52·7	56·6	53·3	45·7	49·5	46·8	40·2	43·5	42·4	35·3	38·9	52·0	44·0	48·0	1880—90	11
68·7	51·9	60·3	67·9	51·3	59·6	62·9	47·7	55·3	54·5	41·4	48·0	47·5	36·4	42·0	42·3	32·3	37·3	54·9	40·8	47·9	1871—90	20
71·5	52·6	62·1	70·4	51·8	61·1	65·0	47·8	56·4	55·7	41·1	48·4	48·0	36·6	42·3	42·7	32·2	37·5	56·4	41·0	48·7	„ „	20
63·5	52·8	58·2	63·6	52·8	58·2	59·6	49·4	54·5	53·7	43·7	48·7	47·8	39·1	43·5	44·5	35·9	40·2	53·2	43·0	48·1	1872—90	19
62·9	54·0	58·5	63·3	53·8	58·6	60·2	50·9	55·6	54·2	45·7	50·0	49·6	41·2	45·4	46·5	37·8	42·2	53·9	44·9	49·4	1879—90	12
63·2	51·8	57·5	62·2	52·2	57·2	59·6	49·2	54·4	53·6	43·6	48·6	48·3	39·2	43·8	45·8	36·2	41·0	53·2	43·0	48·1	1873—90	18
65·9	54·2	60·0	65·8	54·1	60·1	61·2	50·8	56·0	53·8	44·7	49·3	47·8	39·6	43·7	43·5	35·6	39·6	54·0	43·6	48·8	1871—90	20
63·8	54·3	59·1	64·1	54·8	59·5	60·7	52·6	56·7	54·7	47·3	51·0	49·7	42·9	46·3	46·4	39·1	42·8	53·9	45·6	49·8	1872—90	19
66·4	51·5	59·0	66·0	51·4	58·7	61·5	47·4	54·5	54·8	41·0	47·9	49·1	37·1	43·1	44·7	33·1	38·9	55·3	41·3	48·3	„ „	19
64·0	53·6	58·8	64·7	54·1	59·4	61·8	51·5	56·7	56·6	46·8	51·7	52·3	43·0	47·7	49·7	40·0	44·9	56·1	45·9	51·0	1871—90	20
66·1	53·2	59·7	66·1	53·8	60·0	61·7	51·0	56·4	56·0	46·1	51·1	51·1	42·0	46·6	47·9	38·9	43·4	56·0	45·3	50·7	1872—90	19
62·5	54·8	58·7	63·2	55·6	59·4	60·1	53·0	56·6	54·9	48·0	51·5	50·1	43·8	47·0	46·8	40·3	43·6	53·4	46·1	49·8	„ „	19
64·4	56·2	60·3	64·9	57·0	61·0	61·8	54·7	58·3	56·6	50·2	53·4	52·4	46·7	49·6	49·5	43·4	46·5	55·5	48·5	52·1	1871—90	20
64·5	53·7	59·1	65·3	54·4	59·9	62·4	52·2	57·3	56·7	46·2	51·5	51·1	41·9	46·5	47·0	38·2	42·6	54·8	44·7	49·8	1879—90	12
68·3	56·2	62·3	68·8	57·1	63·0	65·4	54·8	60·1	58·2	48·6	53·4	51·9	44·1	48·0	47·3	39·3	43·3	56·7	46·7	51·7	1871—90	20
67·8	55·5	61·7	68·1	55·9	62·0	64·3	52·1	58·2	57·1	45·8	51·5	50·5	40·6	45·6	45·6	36·3	41·0	55·6	44·6	50·1	1874—90	17
66·8	56·3	61·6	67·2	56·7	62·0	63·4	52·9	58·2	56·1	46·2	51·2	49·3	40·6	45·0	44·3	35·9	40·1	54·4	44·8	49·6	1872—90	19
72·4	54·0	63·2	71·8	53·5	62·7	66·4	49·6	58·0	56·7	42·7	49·7	49·3	38·0	43·7	44·0	33·9	39·0	57·3	42·6	50·0	1871—90	20
69·6	53·4	61·5	69·3	53·0	61·2	64·0	48·9	56·5	55·5	42·2	48·9	48·2	37·6	42·9	42·9	33·5	38·2	55·7	42·0	48·9	„ „	20
71·9	52·2	62·1	71·3	51·8	61·6	65·6	48·1	56·9	56·5	41·0	48·8	48·6	35·8	42·2	42·8	31·6	37·2	56·8	40·5	48·7	„ „	20
66·6	54·9	60·8	66·3	54·8	60·6	62·1	51·4	56·8	54·3	44·6	49·5	47·5	39·0	43·3	41·9	33·7	37·8	52·9	43·1	48·0	1872—90	19

following rules have been observed for purposes of interpolation:—

been rejected.

reduced to their approximate value for the whole period by comparison with the values at adjacent and similarly exposed Stations.

are insufficient in point of duration to obtain proper averages.

TABLE IV.—SHOWING FOR THE TELEGRAPHIC REPORTING STATIONS THE MEAN RAINFALL FOR EACH MONTH AND FOR THE WHOLE YEAR—DERIVED FROM OBSERVATIONS EXTENDING OVER THE 25 YEARS 1866 TO 1890.

STATIONS.	JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL.	LIMITS OF YEARS.	NO. OF YEARS.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		
Sumburgh Head - -	3·72	3·19	2·79	2·07	1·72	1·98	2·27	3·16	3·32	4·27	4·16	4·25	36·90	1871—1890	20
Stornoway - - - -	5·30	3·86	3·79	2·65	2·61	2·85	3·02	3·67	4·10	5·04	4·70	5·63	47·22	1855—1890	36
Wick - - - -	2·05	2·04	2·02	1·68	1·69	1·74	2·34	2·57	2·53	3·02	2·93	3·10	27·71	1866—1890	25
Nairn - - - -	1·99	1·48	1·68	1·26	1·61	1·70	2·59	2·75	2·58	2·38	2·29	1·95	24·26	1866—1890	25
Aberdeen - - - -	2·31	2·35	2·33	2·16	1·99	1·77	2·78	3·03	2·97	2·87	3·14	3·24	30·94	„ „	25
Leith - - - - -	1·93	1·45	1·41	1·57	1·67	1·80	2·85	2·56	2·34	1·97	2·20	1·86	23·61	„ „	25
Shields - - - -	1·75	1·50	1·75	1·80	1·69	1·71	2·66	2·85	2·50	2·48	2·61	2·57	25·87	„ „	25
Spurn Head - - -	1·35	1·36	1·22	1·45	1·57	1·54	1·74	1·86	2·02	2·27	2·40	2·14	20·92	1880—1890	11
York - - - - -	1·87	1·70	1·73	1·75	1·85	2·17	2·70	2·54	2·70	2·60	2·19	2·28	26·08	1866—1890	25
Loughborough - - -	2·04	1·78	1·64	1·78	2·09	2·22	2·34	2·53	2·76	2·80	2·24	2·24	26·46	1872—1890	19
Ardrossan - - - -	4·25	3·04	2·44	2·14	2·34	2·49	2·91	3·78	3·67	3·87	3·88	3·73	38·54	1866—1890	25
Mullaghmore - - -	4·36	3·09	2·87	2·05	2·42	2·79	3·72	3·65	4·95	4·75	4·48	4·51	43·64	1876—1890	15
Donaghadee - - -	2·98	2·42	2·05	1·92	2·26	1·92	2·82	3·04	3·04	3·14	3·20	2·84	31·63	1873—1890	18
Liverpool - - - -	2·22	1·69	1·72	1·55	1·84	1·89	2·96	2·83	3·30	3·46	2·96	2·59	29·01	1866—1890	25
Holyhead - - - -	3·38	2·60	2·27	1·90	1·90	1·98	2·40	2·77	3·23	4·31	3·88	3·82	34·44	„ „	25
Parsonstown - - -	3·12	2·20	2·33	2·04	2·24	2·39	2·96	3·38	3·16	3·16	2·83	3·04	32·85	„ „	25
Valencia - - - -	6·69	4·95	4·20	3·83	3·20	3·27	3·90	4·70	4·53	5·88	5·42	5·99	56·56	„ „	25
Roche's Point - - -	5·50	4·43	3·71	3·24	3·14	3·13	3·29	3·62	4·08	4·09	4·62	4·95	47·80	1868—1890	23
Pembroke - - - -	3·75	2·82	2·40	1·94	2·03	1·94	2·54	2·77	3·58	3·96	4·05	3·99	35·76	1871—1890	20
Scilly - - - - -	3·73	2·71	2·40	2·27	1·73	1·84	2·46	2·39	3·41	3·70	3·72	4·02	34·38	„ „	20
Prawle Point - - -	3·09	2·02	1·95	2·07	1·56	1·60	2·24	2·14	2·46	3·60	3·20	3·76	29·69	1879—1890	12
Jersey - - - -	3·21	2·55	2·33	2·08	1·87	1·91	2·40	2·24	3·05	4·45	4·30	3·82	34·21	1866—1890	25
Hurst Castle - - -	2·94	2·25	1·83	1·83	1·77	1·92	2·20	2·26	3·01	3·26	3·01	2·78	29·06	„ „	25
Dover - - - - -	2·58	1·95	1·83	1·77	1·79	1·59	1·95	2·04	2·64	3·22	3·48	3·00	27·84	„ „	25
London - - - -	2·12	1·73	1·49	1·84	1·86	2·11	2·38	2·21	2·35	2·57	2·23	2·10	24·99	„ „	25
Oxford - - - -	2·26	1·92	1·59	1·78	1·95	2·21	2·58	2·24	2·66	2·56	2·31	2·10	26·16	„ „	25
Cambridge - - -	1·54	1·46	1·40	1·69	1·90	2·23	2·42	2·19	2·26	2·27	2·01	1·88	23·25	„ „	25
Yarmouth - - - -	1·95	1·82	1·82	1·70	1·86	1·88	2·85	2·15	2·91	2·92	3·06	2·66	27·58	„ „	25

NOTE.—When the records available have not extended over the whole of the period 1866-1890 the following rules have been observed for purposes of interpolation:—

(1) Where the observations available have not covered a period of eleven years, or more, they have been rejected.

(2) When the observations have covered a period of eleven years, or more, the means have been reduced to their approximate values for the whole period by comparison with the values at adjacent and similarly exposed stations.

At Malin Head and Belmullet the observations are insufficient in point of duration to obtain proper averages.

JUDD & Co., Ltd., Printers, 63, Carter Lane, Doctors' Commons, E.C. [3316]

DAILY WEATHER REPORT.

for Sunday 1st November. 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30·10	37	SW	4	b	30·30	+ ·54	30	30	— 4	WSW	2	bc	*	43	30	—
	Hernösand ...	30·57	49	W	2	bc	30·52	+ ·40	43	40	— 7	NW	2	b	*	54	39	—
	Stockholm ...	30·29	48	NW	4	b	30·47	+ ·24	41	37	+ 1	N	2	b	*	57	34	—
	Wisby	30·25	48	NNW	4	b	30·42	+ ·13	47	45	+ 15	NE	6	c	*	48	32	—
	Bodö	30·38	46	W	4	bc	30·41	+ ·23	47	46	— 1	SW	8	r	4	50	43	—
	Christiansund	30·64	50	WSW	6	r	30·71	+ ·23	49	47	— 2	WSW	2	f	4	51	48	—
	Skudesnaes ...	30·56	48	N	5	bc	30·59	+ ·03	46	45	0	N	2	c	1	52	45	—
	Christiania Fjord (Færder)	30·45	47	NNE	2	b	30·61	+ ·19	47	44	+ 5	NNE	2	b	1	50	42	—
	Skagen (The Scaw)	30·44	48	Z	0	b	30·56	+ ·15	48	45	+ 2	NW	2	b	0	50	46	—
	Fanö	30·49	44	NNW	2	b	30·47	— ·01	43	42	— 4	NNE	2	b	*	54	43	—
BRITISH ISLANDS.	Sumburgh Head	30·69	49	N	1	0	30·72	+ ·08	47	46	— 2	Z	0	c	1	52	43	—
	Stornoway ...	30·66	44	Z	0	f	30·67	— ·01	42	42	— 1	Z	0	f	2	53	35	0·02
	Wick	30·72	45	NE	1	0	30·71	+ ·03	45	44	0	NE	1	0	0	52	44	—
	Nairn	30·68	43	Z	0	c	30·68	— ·01	44	43	+ 15	Z	0	om	0	46	27	—
	Aberdeen ...	30·71	46	WNW	1	0	30·73	·00	47	46	+ 11	N	1	0	1	48	36	0·01
	Leith	30·70	40	SSW	1	f	30·69	— ·05	47	47	+ 11	NNE	2	r	*	47	33	—
	Shields	30·66	48	NW	1	om	30·63	— ·08	48	48	+ 8	NNE	3	d	3	52	37	0·02
	Spurn Head ...	30·59	50	NNE	4	0	30·58	— ·09	49	48	+ 4	NNE	1	omd	1	50	45	0·01
	York	30·65	47	NE	1	0	30·63	— ·08	49	49	+ 16	N	1	m	*	49	32	0·03
	Loughborough	30·60	46	NNE	1	0	30·59	— ·11	46	46	+ 10	NE	1	om	*	50	26	0·01
	Ardrossan ...	30·67	41	NE	1	bm	30·66	— ·06	47	49	+ 9	ENE	1	bm	1	48	35	—
	Malin Head ...	30·62	55	SE	3	b	30·62	·00	46	44	+ 5	SSE	2	om	0	50	47	—
	Mullaghmore ...	30·60	46	E	2	b	30·60	·00	47	44	+ 4	E	5	om	3	51	41	—
	Belmullet ...	30·55	45	SE	4	b	30·54	— ·02	43	42	+ 1	SE	2	c	*	48	41	—
	Donaghadee ...	30·67	48	ESE	2	bc	30·61	— ·08	50	49	+ 3	ESE	2	0	0	51	46	—
	Liverpool (Bidston)	30·66	43	E	2	bc	30·63	— ·08	46	45	+ 8	ENE	1	of	1	46	37	—
	Holyhead ...	30·63	44	E	1	b	30·60	— ·06	46	46	+ 5	E	1	omg	1	48	41	—
	Parsonstown ...	30·56	43	Z	0	b	30·55	— ·03	46	43	+ 7	Z	0	0	*	49	37	—
	Valencia	30·45	46	E	4	bm	30·45	·00	49	46	+ 2	E	5	bem	4	52	43	—
	Roche's Point ...	30·49	47	SE	7	bc	30·49	+ ·01	50	47	+ 3	SE	7	bc	5	50	46	—
	Pembroke (St. Ann's Hd.)	30·55	45	E	4	b	30·54	— ·03	46	45	+ 7	E	2	cmg	2	47	39	—
	Scilly	30·38	50	ESE	8	bc	30·42	+ ·03	50	46	+ 3	ESE	6	bc	5	50	44	—
	Prawle Point ...	30·37	47	ENE	7	bc	30·48	— ·02	48	47	+ 2	ENE	6	cg	5	48	41	—
	Jersey (St. Aubin's)	30·45	45	E	7	b	30·50	— ·02	44	39	+ 3	E	7	bm	3	47	39	—
	Hurst Castle ...	30·58	44	E	5	bm	30·52	— ·08	45	45	+ 2	NE	2	m	1	47	39	—
	Dungeness ...	30·50	46	NE	3	c	30·49	— ·03	47	47	+ 6	NE	2	m	1	47	38	—
	London	30·59	46	ESE	1	0	30·55	— ·11	50	49	+ 19	NNE	1	0	*	50	31	—
	Oxford	30·61	40	E	1	0	30·57	— ·12	47	46	+ 17	NE	2	om	*	45	30	0·01
	Cambridge ...	30·60	45	E	1	c	30·58	— ·12	49	48	+ 15	NNE	1	0	*	49	32	0·01
	Yarmouth ...	30·56	48	N	1	od	30·52	— ·14	52	51	+ 9	NE	3	bc	4	52	41	0·03
GERMANY & HOLLAND.	Cuxhaven ...	30·49	46	NNE	1	c	30·45	?	46	44	+ 6	NE	3	b	*	50	40	0·04
	Berlin	30·42	38	NW	4	0	30·32	— ·28	44	44	+ 13	NW	3	f	*	?	31	—
	Wiesbaden ...	*	*	*	*	*	30·40	— ·23	40	38	+ 7	E	4	0	*	42	33	—
	Munich	30·48	26	SW	4	bc	30·37	— ·19	28	27	+ 6	SW	3	s	*	32	21	0·04
	The Helder ...	30·50	50	NNW	1	c	30·55	— ·10	50	49	+ 5	N	1	c	1	50	45	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·51	— ·16	39	39	+ 10	NNE	2	f	*	42	29	—
	Cape Gris Nez	30·55	40	E	2	bc	30·49	— ·09	47	46	+ 16	NE	1	bc	1	?	31	—
	Paris	30·50	36	NE	3	b	30·49	— ·09	27	27	— 2	NE	2	b	*	44	26	—
	Brest	?	43	ESE	5	b	?	?	36	34	— 1	E	4	b	3	50	34	—
	Lorient	30·30	45	ENE	6	b	30·33	— ·01	36	32	— 1	ENE	5	b	4	46	34	—
	Rochefort ...	30·22	42	E	6	b	30·25	+ ·05	31	29	— 2	E	6	b	3	48	27	—
	Belfort	?	29	NE	3	b	?	?	32	26	0	NE	1	b	*	40	26	—
	Lyons	30·39	30	NNW	2	b	30·37	— ·03	26	24	— 2	N	2	bc	*	41	25	—
	Nice	30·25	42	E	1	bc	30·16	— ·09	39	35	— 1	E	1	c	2	50	36	—
	Perpignan ...	30·21	51	S	2	0	30·18	— ·02	46	44	0	SW	2	0	*	56	42	—
	Biarritz	30·07	57	E	5	bc	30·10	+ ·06	44	43	+ 3	SE	5	m	2	55	39	—
PENINSULA.	Corunna	*	*	*	*	*	30·04	+ ·13	62	58	+ 4	ENE	1	b	2	64	52	—
	Lisbon	29·89	57	E	3	bc	30·04	+ ·26	55	55	— 4	ENE	4	0	2	63	54	0·51

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Sunday, 1st Novr, 1891.

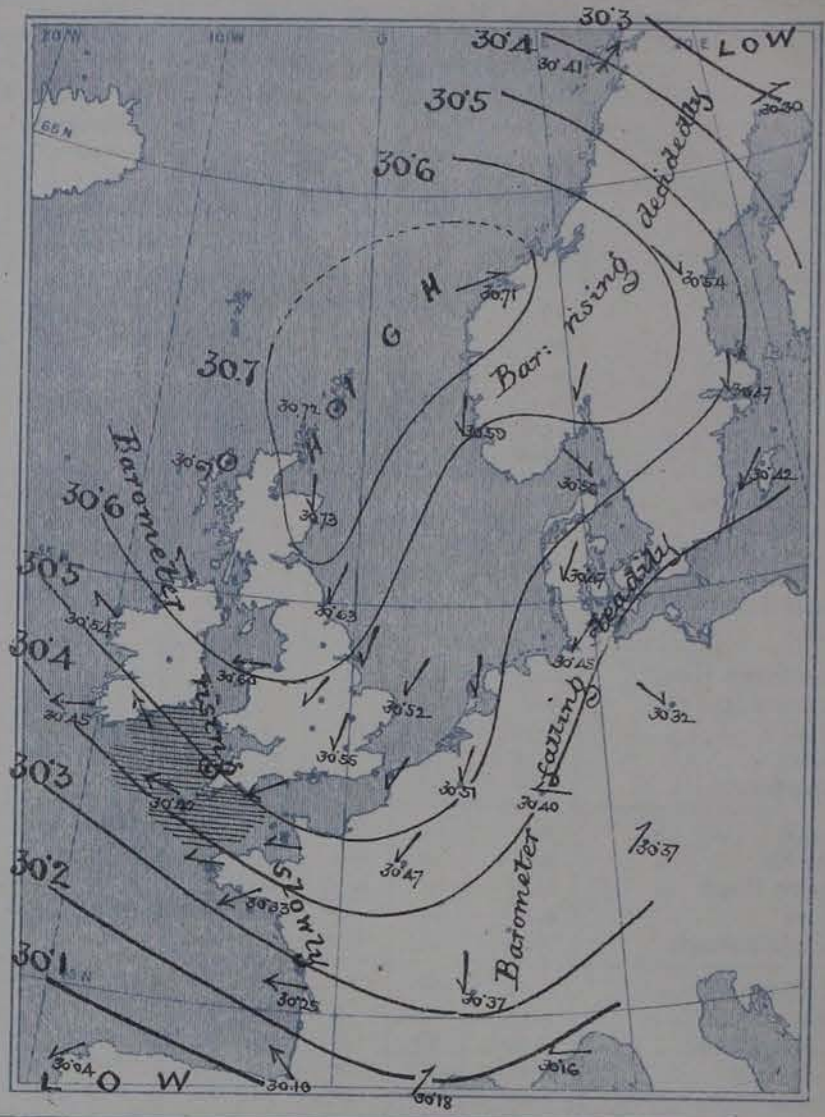
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	4·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	46·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·7 ins. and upwards, over the north and east of Scotland, the extreme west of Norway, and the intervening parts of the North Sea.

Lowest, 30·1 ins. and less, over the Spanish Peninsula.

Gradients slight generally. Barometer falling a little in many parts of our Islands, as well as in Germany and the south of Denmark, but rising elsewhere.

TEMPERATURE

Highest, 62° at Lounna, 55° at Lisbon, 52° at Yarmouth, and 50° at Valencia, Roche's Point, London and the Helder.

Lowest, 26° at Lyons, 27° at Paris, 28° at Munich, 30° at Haparanda, 31° at Rochefort and 32° at Belfast.

The maxima registered yesterday were below 50° in many parts of the United Kingdom, and also over the northern and central parts of France.

WIND

Light from the N.ward or NE.ward in the east and southeast of Great Britain, as well as over Denmark, the Netherlands, the south of Scandinavia and Central France.

Strong from the E.ward or SE.ward over the southwest of our Islands and the west of France; light or moderate from the same quarter on our northwest coasts.

SW in the west of Norway, with a gale at Bodö.

WEATHER

Dull and misty over all the eastern parts of Great Britain, with slight rain in a few places.

Fine in most other parts of Western Europe, but rain falling at Christiansund and snow at Munich.

Since yesterday morning slight rain has fallen in the southeast and east of our Islands and a rather larger amount at Lisbon.

SEA

Rather rough on our southwest coasts but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 2nd Novr. 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	None issued	6 SCOTLAND WEST	None issued
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	30·54	52	50	NNW	5	o	2
Sumburgh Head	30·69	50	49	N	1	o	2
Stornoway	30·67	53	50	SW	2	b	2
Aberdeen	30·71	47	44	WNW	1	c	1
Shields	30·69	51	46	NW	1	bcm	2
Ardrossan	30·68	48	47	NE	1	b	1
Malin Head ...	30·63	50	45	SE	4	b	1
Mullaghmore ...	30·58	51	44	ESE	5	b	3
Belmullet	30·59	? 48	43	SSE	4	b	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	30·65	48	43	E	2	b	1
Valencia	30·44	52	46	E	5	bm	5
Scilly	30·40	49	45	E	8	be	6
Jersey	30·47	46	40	E	7	b	5
Dungeness	30·59	46	40	ESE	3	b	2
London	30·62	48	44	E	2	be	*
Yarmouth	30·59	50	46	N	2	c	3
Rochefort	30·21	48	41	E	6	b	3

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine over the British Islands and Western Europe generally, but rainy at Madrid; fair over Central Europe, unsettled elsewhere. Snow reported at Breslau and Hermanstadt, rain at Christiania. Some rain later in the southern and Eastern part of the British Isles, as well as at Cuxhaven and Munich and a large quantity at Lisbon.

Temperature again fallen over the British Islands and France, rise over Sweden. Below 60° at all stations excepting Malta; below 40° over the northern and Eastern parts of Great Britain and at most of the Continental stations, and as low as 15° at Kiev, 18° at Moscow, Kharkov, and Warsaw, 22° at Nicolaieff and Munich, 23° at Lemberg, 26° at Hermanstadt, Buda Pesth, Breslau, and Loughboro', 29° at Paris and Nancy, 30° at Oxford, 31° in London. Rising later to 50° or more in the northeast of Scotland and in Norway, as well as in the south of Ireland, but not touching 50° over the greater part of England and France.

Wind very light and anticyclonic over the northern and Eastern parts of Gt Britain, the Netherlands, and north Germany; strong to a gale from the W and over Scandinavia, light W and NW on the shores of the Baltic; strong E to NE over the Adriatic and Italy, and NW at Malta; SE and E strong to a gale on our own west and southwest coasts, and strong E over the Bay of Biscay.

Barometer highest 30·7 ins. and more to 30·5 ins. in an anticyclone lying over the British Islands, northeastern and central Europe. Lowest 29·6 ins. and less, over the White Sea; 29·8 ins. and less off the southwest of Portugal, 29·9 ins. and less over Greece, the south of Italy, and east of Sicily. Rising over Norway during day, changing irregularly elsewhere.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS:—*For* Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Monday 2nd November 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30·17	31	Z	0	b	30·22	— ·08	34	33	+ 4	SW	2	bc	*	37	27	—
	Hernösand ...	30·49	48	W	4	b	30·50	— ·02	44	40	+ 1	W	2	b	*	52	37	—
	Stockholm ...	30·58	39	Z	0	b	30·57	+ ·10	41	39	0	NW	2	c	*	52	37	—
	Wisby	30·58	44	NE	4	b	30·58	+ ·16	44	43	— 3	W	4	c	*	48	41	—
	Bodö	30·41	47	WSW	6	r	30·37	— ·04	46	44	— 1	WSW	7	o	4	48	41	0·20
	Christiansund	30·72	49	SW	3	f	30·70	— ·01	49	46	0	SW	3	o	4	50	48	—
	Skudesnaes ...	30·68	50	Z	0	o	30·68	+ ·09	42	41	— 4	Z	0	bc	1	55	41	—
	Christiania Fjord (Færder)	30·68	44	Z	0	b	30·68	+ ·07	41	40	— 6	N	3	m	1	45	39	—
	Skagen (The Seaw)	30·67	46	Z	0	b	30·65	+ ·09	42	42	— 6	WNW	1	f	0	48	37	—
	Fanö	30·65	40	ENE	2	b	30·67	+ ·20	34	34	— 9	N	1	f	*	52	34	—
BRITISH ISLANDS.	Sumburgh Head	30·74	47	Z	0	c	30·68	— ·04	46	46	— 1	SSE	1	o	2	50	45	—
	Stornoway ...	30·66	45	Z	0	c	30·58	— ·09	38	38	— 4	Z	0	f	2	53	36	0·01
	Wick	30·73	49	E	1	o	30·65	— ·06	49	47	+ 4	SE	3	o	1	51	44	—
	Nairn	30·69	48	E	1	o	30·62	— ·06	35	34	— 9	Z	0	b	1	49	33	—
	Aberdeen ...	30·72	47	NNE	2	o	30·69	— ·04	48	46	+ 1	SSE	2	c	2	49	46	—
	Leith	30·69	48	NNE	3	r	30·65	— ·04	47	47	0	SE	1	c	*	49	46	0·02
	Shields	30·64	48	NNE	3	d	30·62	— ·01	50	48	+ 2	NE	1	o	3	50	47	—
	Spurn Head ...	30·56	48	E	4	o	30·59	+ ·01	51	47	+ 2	E	4	c	3	52	47	0·01
	York	30·62	49	NE	1	o	30·63	·00	50	49	+ 1	E	1	o	*	51	45	0·01
	Loughborough	30·57	48	NNE	2	o	30·55	— ·02	48	47	+ 2	E	2	cm	*	51	46	0·01
	Ardrossan ...	30·66	48	ENE	3	om	30·61	— ·05	48	47	+ 1	ENE	3	om	1	50	46	—
	Malin Head ...	30·60	50	SE	3	om	30·55	— ·07	47	45	+ 1	SE	3	o	1	51	45	—
	Mullaghmore ...	30·58	51	ESE	2	cg	30·53	— ·07	48	47	+ 1	E	4	ogm	2	51	46	—
	Belmullet ...	30·52	49	ESE	2	bc	30·48	— ·06	48	46	+ 5	E	2	b	*	49	42	—
	Donaghadee ...	30·63	52	ESE	3	o	30·59	— ·02	50	48	0	ESE	4	o	2	53	49	—
	Liverpool (Bidston)	30·60	49	ENE	1	of	30·59	— ·04	48	45	+ 2	E	1	of	2	52	46	—
	Holyhead ...	30·58	49	E	2	bm	30·53	— ·07	47	46	+ 1	Z	0	cmg	0	52	45	—
	Parsonstown ...	30·55	50	Z	0	bc	30·51	— ·04	42	42	— 4	Z	0	o	*	52	32	—
	Valencia	30·45	52	ESE	5	c	30·40	— ·05	52	50	+ 3	E	4	cm	4	54	47	—
	Roche's Point ...	30·49	52	SE	7	bc	30·45	— ·04	51	48	+ 1	SE	5	om	5	54	49	—
	Pembroke (St. Ann's Hd.)	30·55	50	E	2	o	30·51	— ·03	47	46	+ 1	E	2	cg	2	51	44	—
	Scilly	30·41	52	ESE	7	bc	30·38	— ·04	52	46	+ 2	E	6	c	5	53	46	—
	Prawle Point ...	30·48	51	ENE	5	b	30·44	— ·04	50	50	+ 2	ENE	5	bc	4	51	47	—
	Jersey (St. Aubin's)	30·36	51	ENE	3	bm	30·41	— ·09	51	50	+ 7	E	3	bcm	3	52	43	0·02
	Hurst Castle ...	30·51	50	NE	3	m	30·49	— ·03	49	49	+ 4	ENE	4	bc	1	57	45	—
	Dungeness ...	30·46	52	ENE	5	o	30·48	— ·01	47	46	0	E	4	c	3	57	46	0·02
	London	30·54	49	ENE	2	o	30·53	— ·02	48	46	— 2	ENE	2	bmw	*	57	47	0·01
	Oxford	30·58	47	NE	2	o	30·54	— ·03	48	47	+ 1	NE	1	bc	*	52	46	—
	Cambridge ...	30·58	49	NE	1	d	30·58	·00	47	46	— 2	NNE	1	b	*	57	43	0·01
	Yarmouth ...	30·50	50	N	3	cdg	30·55	+ ·03	50	48	— 2	E	5	c	5	53	48	0·01
GERMANY & HOLLAND.	Cuxhaven ...	30·49	46	ENE	3	b	30·64	+ ·19	44	43	— 2	E	3	b	*	52	42	—
	Berlin	30·47	45	NE	4	b	30·62	+ ·30	38	37	— 6	NNE	3	bc	*	52	36	—
	Wiesbaden ...	*	*	*	*	*	30·48	+ ·08	43	40	+ 3	NE	2	b	*	48	40	—
	Munich	30·34	32	SW	2	s	30·44	+ ·07	31	31	+ 3	E	4	o	*	32	27	0·16
	The Helder ...	30·55	50	ENE	2	b	30·64	+ ·09	44	43	— 6	E	2	b	3	52	45	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·53	+ ·02	41	41	+ 2	ENE	1	f	*	52	39	—
	Cape Gris Nez	30·44	51	N	5	r	30·47	·00	41	41	— 6	E	3	f	2	54	39	0·04
	Paris	30·40	46	NE	3	o	30·40	— ·07	38	37	+ 11	NE	3	m	*	46	27	—
	Brest	30·39	48	E	3	b	30·35	?	47	46	+ 11	E	3	b	3	54	37	—
	Lorient	30·35	48	ENE	4	b	30·31	— ·02	47	45	+ 11	ENE	3	b	2	50	36	—
	Rochefort ...	30·25	44	ENE	6	b	30·21	— ·04	42	41	+ 5	NE	5	b	2	48	39	—
	Belfort	30·29	36	NE	3	b	?	?	41	36	+ 9	NE	4	bc	*	41	30	—
	Lyons	29·95	37	NW	2	b	30·26	— ·11	34	34	+ 8	ENE	1	o	*	41	32	—
	Nice																	
	Perpignan ...	30·19	44	Z	0	b	30·17	— ·01	39	39	— 7	N	1	b	*	53	38	—
	Biarritz	30·15	52	E	3	b	30·17	+ ·07	36	34	— 8	E	3	b	1	55	34	—
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	30·12	61	SW	2	b	30·13	+ ·09	59	56	+ 2	E	2	o	3	64	55	—

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Monday, 2nd November 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch.
Changes since previous morning are stated in words.

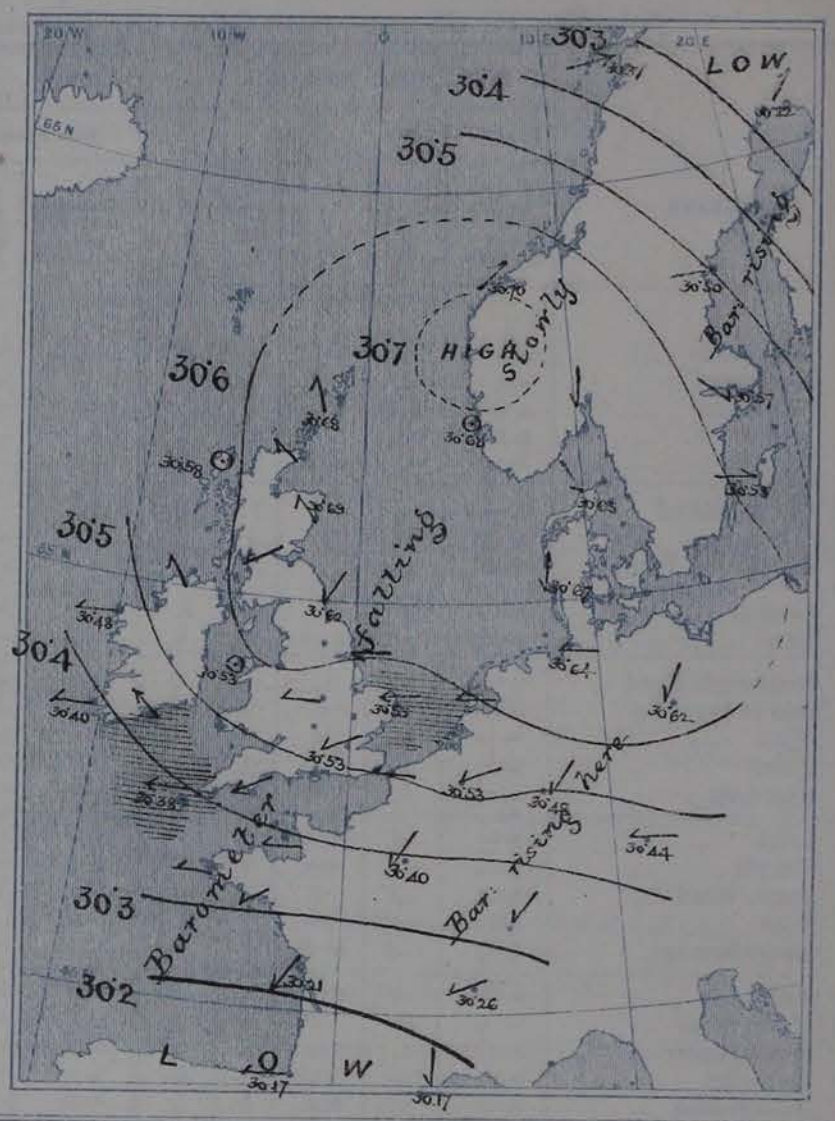
WIND—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29 : 683
Stornoway	29 699
Wick	29 · 722
Nairn	29 · 738
Aberdeen	29 · 758
Leith	29 · 789
Shields	29 · 813
Spurn Head	29 · 842
York	29 · 846
Loughborough	29 · 877
Ardrossan	29 · 791
Mullaghmore	29 · 780
Donaghadee	29 · 819
Holyhead	29 · 835
Liverpool	29 · 851
Parsonstown	29 · 847
Valencia	29 · 865
Roche's Point	29 · 865
Pembroke	29 · 864
Scilly	29 · 897
Prawle Point	29 · 914
Jersey	29 · 928
Hurst Castle	29 · 902
Dover	29 · 893
LONDON	29 · 898
Oxford	29 · 896
Cambridge	29 · 887
Yarmouth	29 · 865



TEMPERATURE, & WEATHER AT 8 A.M.,
WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

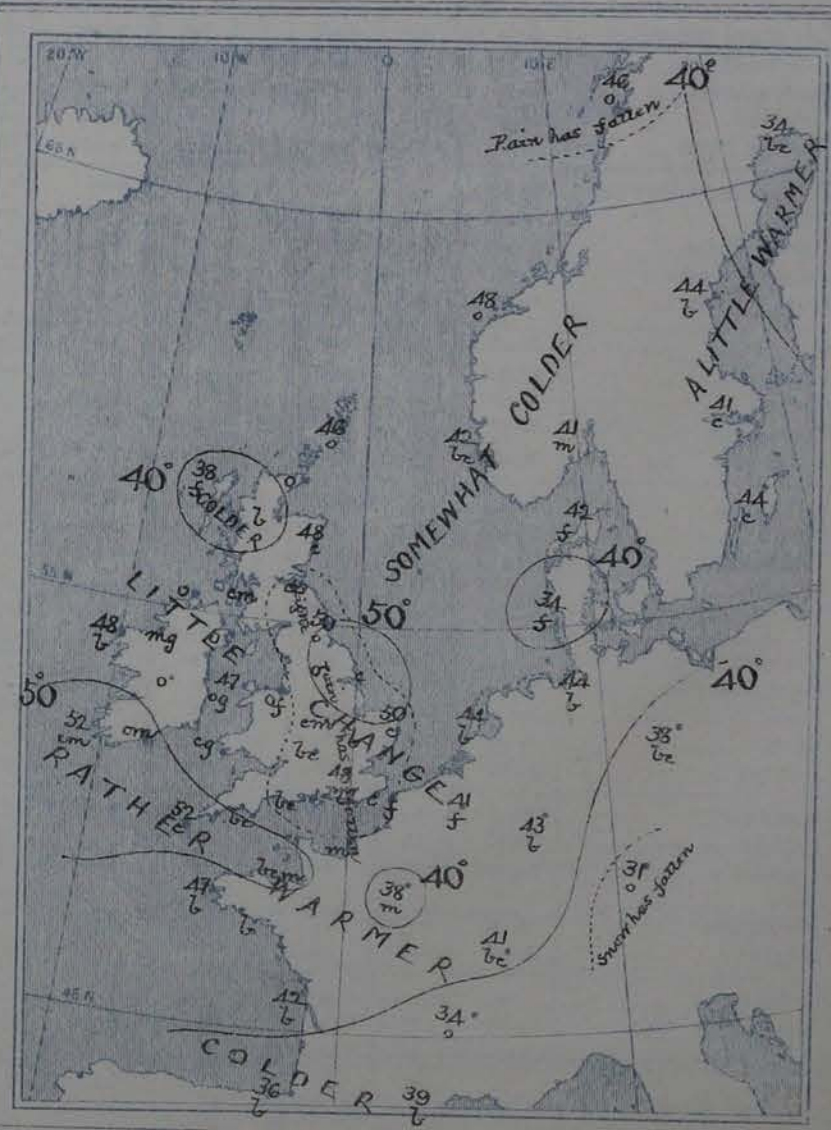
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches.)
Sumburgh Head	45 · 6	37 8	42 0	40 · 3	4 · 16
Stornoway	46 2	37 · 0	41 · 7	40 · 7	4 70
Wick	45 · 1	36 · 1	41 · 4	39 · 8	2 · 93
Nairn	45 · 3	35 7	39 · 8	38 · 2	2 · 29
Aberdeen	46 · 2	36 5	40 · 5	38 · 7	3 · 14
Leith	48 1	37 · 0	41 · 7	40 · 0	2 · 20
Shields	47 · 3	37 · 9	42 · 1	40 · 5	2 · 61
Spurn Head	46 8	40 · 2	43 · 2	41 · 9	2 · 40
York	47 5	36 · 4	40 · 6	39 · 3	2 · 19
Loughborough	48 · 0	36 · 6	40 · 5	39 · 3	2 · 24
Ardrossan	47 · 8	39 · 1	43 · 1	41 · 3	3 · 88
Mullaghmore	49 · 6	41 · 2	45 · 1	43 · 1	4 · 48
Donaghadee	48 · 3	39 · 2	43 · 2	42 · 0	3 · 20
Holyhead	49 · 7	42 · 9	45 · 8	44 · 0	3 · 88
Liverpool	47 · 8	39 · 6	42 · 5	40 · 7	2 · 96
Parsonstown	49 1	37 · 1	41 · 9	40 · 2	2 · 83
Valencia	52 · 3	43 · 0	47 · 4	45 · 5	5 · 42
Roche's Point	51 · 1	42 · 0	46 · 1	44 · 5	4 · 62
Pembroke	50 · 1	43 · 8	46 · 9	45 · 1	4 · 01
Scilly	52 · 4	46 · 7	50 · 0	48 · 0	3 · 72
Prawle Point	51 · 1	41 · 9	46 · 2	44 · 7	3 · 20
Jersey	51 · 9	44 · 1	47 · 7	45 · 8	4 · 30
Hurst Castle	50 · 5	40 · 6	44 · 9	44 · 0	3 · 05
Dover	49 · 3	40 · 6	44 · 3	42 · 8	3 · 48
LONDON	49 · 3	38 · 0	42 · 2	40 · 8	2 · 23
Oxford	48 · 2	37 · 6	41 · 2	40 · 0	2 · 31
Cambridge	48 · 6	35 · 8	40 · 7	39 · 9	2 · 01
Yarmouth	47 · 5	39 · 0	43 · 1	42 · 0	3 · 06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.70 ins. at Christiansund; 30.6 ins. and upwards over the North Sea, Denmark, N. Germany, the southern parts of Scandinavia and the northeastern parts of Great Britain.
Lowest 30.2 ins. and less in the south of France.
Gradients slight. Barometer falling a little over our Islands, the Bay of Biscay & the W. of Norway, but rising elsewhere.

TEMPERATURE

Highest 52° at Valencia Island and Scilly, 51° at Spurn Head, Rockes Point and Jersey, and 50° at Shields, York and Prawle Point.
Lowest 31° at Munich, ~~33° at Biarritz~~, 34° at Haparanda, Paris and Lyons, 35° at Nairn, & 38° at Stornoway, Berlin & Paris.
The highest maximum registered over our Islands yesterday was 57° at Hurst Castle, Dungeness, London & Cambridge.

WIND

E. or NE. over England, France, Germany and the Netherlands; light or moderate in force generally, but strong at the mouth of the channel.
Light or moderate from the SE^ward in Ireland and Scotland.
SW. over the northern parts of Scandinavia; light from the NW^ward or N^ward over Denmark & the S. of Scandinavia.

WEATHER

Fine over the greater part of Western Europe, but with fog or mist in places.
Dull in the northern parts of Ireland and Scotland and also in the west of Norway.
Slight rain fell yesterday at several of our eastern and southern stations and snow at Munich.

SEA

Slight or smooth generally, but rather rough on our extreme south west coasts and also at Yarmouth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The fall of the barometer is at present too slight and uniform to lead to any decided change in the weather.

FORECASTS

For the 24 hours ending at NOON on 3rd NOVEMBER 1891.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SE. and E. winds, light or moderate, fair generally.
1 SCOTLAND EAST	
2 ENGLAND N.E.	Same as No. 5.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	E. winds, light or moderate; fair generally, but local fogs.
6 SCOTLAND WEST	E. winds, light; fair generally, but local fogs.
7 ENGLAND N.W.	
8 ENGLAND S.W.	E. winds, moderate or fresh; fair generally.
9 IRELAND NORTH	E. and SE. winds, freshening; dull, rain locally.
10 IRELAND SOUTH	
WARNINGS	None Issued

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	30·67	55	51	W	2	bc	1
Sumburgh Head							
Stornoway	30·67	53	51	SE	2	b	2
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·61	51	49	SE	3	o	1
Mullaghmore ...							
Belmullet	30·54	49	47	ESE	3	o	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	30·60	51	48	E	3	b	2
Valencia							
Scilly							
Jersey	30·49	50	46	ESE	3	o	3
Dungeness	30·46	50	52	ENE	4	c	3
London	30·51	57	51	NE	2	c	*
Yarmouth							
Rochefort	30·23	48	41	E	6	bc	4

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Continental Information not yet arrived.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 25TH TO 31ST OCT. 1891.

The weather experienced over our Islands during the past week has been finer and drier than for a long time past, but in Spain and the south of France heavy falls of rain have occurred and in some districts there have resulted disastrous floods.

At the beginning of the period an anticyclone extended from Scandinavia over the northern part of the United Kingdom, while a depression which had advanced from Algeria was reported over the south of France. The prevailing winds over Western Europe were therefore E and NE, and at our southern stations they blew strongly with frequent but not heavy rain. In the neighbourhood of the depression the rainfall was as we have already remarked very considerable. On the night of the 25th the depression over France was joined by a new disturbance which had advanced from the southwestward, but in the course of the ensuing 48 hours the combined systems grew shallower and moved away over Spain.

The anticyclone in the north had in the meantime increased steadily both in size and intensity, and during the remainder of the week it spread southwards, the system ultimately embracing nearly the whole of northwestern Europe. E or NE winds continued to prevail in all but the northern districts, where the wind fell light and variable, but fine weather set in generally, with a decided fall of temperature. On the night of the 30th sharp ground frost was experienced over the inland parts of Great Britain the exposed thermometer in London falling as low as 20°.

At the close of the week the barometer appeared to be falling a little generally, and although the winds were unchanged a considerable rise of temperature was in progress over England.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Tuesday 3rd November 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30·05	35	SW	2	b	29·91	− ·31	42	41	+ 8	SW	4	b	*	?	30	—
	Hernösand ...	30·41	40	W	2	b	30·06	− ·44	47	43	+ 3	WSW	2	bc	*	48	36	—
	Stockholm ...	30·56	37	2	0	b	30·32	− ·25	35	34	− 6	SW	2	c	*	46	35	—
	Wisby	30·57	44	N	4	b	30·42	− ·16	43	41	− 1	W	?	b	*	46	41	—
	Bodö	30·12	47	W	8	r	29·99	− ·38	37	32	− 9	WNW	8	0	5	48	36	0·32
	Christiansund	30·56	50	SW	5	b	30·41	− ·29	49	45	0	W	6	r	4	50	46	0·04
	Skudesnaes ...	30·63	48	2	0	0	30·50	− ·18	46	45	+ 4	2	0	0	1	48	42	—
	Christiania Fjord (Færder)	30·61	43	2	0	b	30·40	− ·28	42	42	+ 1	WSW	3	0	2	45	41	—
	Skagen (The Scaw)	30·54	41	2	0	b	30·47	− ·18	44	43	+ 2	WSW	1	0	1	48	36	—
	Fanö	30·63	40	2	0	f	30·52	− ·15	39	39	+ 5	SSE	2	c	*	43	34	0·04
BRITISH ISLANDS.	Sumburgh Head	30·60	47	S	1	0	30·54	− ·14	47	45	+ 1	2	0	0	1	45	45	—
	Stornoway ...	30·56	49	W	2	0	30·56	− ·02	46	46	+ 8	N	2	0	2	51	36	—
	Wick	30·59	46	S	1	b	30·55	− ·10	45	44	− 4	2	0	0	0	53	36	—
	Nairn	30·57	43	2	0	f	30·55	− ·07	42	41	+ 7	2	0	0	1	44	34	—
	Aberdeen ...	30·63	49	S	1	0	30·59	− ·10	40	39	− 8	W	1	0	2	51	40	—
	Leith	30·61	50	SE	1	0	30·57	− ·08	40	40	− 7	SE	1	c	*	54	39	—
	Shields	30·62	50	W	1	0	30·53	− ·09	50	47	0	E	2	0	3	52	47	—
	Spurn Head ...	30·55	50	E	4	bc	30·49	− ·10	49	47	− 2	NE	2	0	3	51	49	—
	York	30·59	50	SE	1	0	30·53	− ·10	46	45	− 4	ENE	1	0	*	52	39	—
	Loughborough	30·52	45	E	2	b	30·47	− ·08	45	43	− 3	E	2	cm	*	54	37	—
	Ardrossan ...	30·57	50	ENE	1	cm	30·55	− ·06	42	41	− 6	NE	1	bcm	0	53	39	—
	Malin Head ...	30·53	49	SE	3	cm	30·48	− ·07	45	43	− 2	SSE	3	cm	1	50	44	—
	Mullaghmore ...	30·50	49	E	2	ogm	30·47	− ·06	45	44	− 3	ENE	5	bw	2	50	44	—
	Belmullet ...	30·49	48	ESE	2	0	30·43	− ·05	44	43	− 4	E	2	b	*	50	40	—
	Donaghadee ...	30·55	52	SE	3	c	30·51	− ·08	48	46	− 2	SE	3	bc	1	53	47	—
	Liverpool (Bidston)	30·55	49	E	2	0	30·51	− ·08	42	40	− 6	ENE	1	of	1	54	41	—
	Holyhead ...	30·51	48	2	0	bc	30·46	− ·07	45	42	− 2	E	3	bw	2	54	43	—
	Parsonstown ...	30·46	48	2	0	0	30·42	− ·09	41	40	− 1	2	0	b	*	49	34	—
	Valencia	30·38	51	E	3	cm	30·35	− ·10	49	46	− 3	E	4	cm	4	55	48	—
	Roche's Point ...	30·41	51	SE	5	c	30·37	− ·08	49	46	− 2	ESE	6	c	5	52	48	0·02
	Pembroke (St. Ann's Hd.)	30·45	51	E	3	b	30·42	− ·09	42	41	− 5	ENE	4	bc	2	53	41	—
	Scilly	30·33	53	E	5	c	30·26	− ·12	49	47	− 3	NE	5	c	4	54	47	0·01
	Prawle Point ...	30·40	50	E	6	cq	30·32	− ·12	46	44	− 4	ENE	6	cq	5	53	44	—
	Jersey (St. Aubin's)	30·36	51	ENE	5	bm	30·28	− ·13	47	44	− 4	E	4	bcm	3	55	44	—
	Hurst Castle ...	30·41	52	ENE	5	b	30·35	− ·14	43	43	− 6	ENE	5	bm	2	54	40	—
	Dungeness ...	30·42	47	E	5	c	30·35	− ·13	45	42	− 2	ESE	5	c	3	51	44	—
	London	30·50	48	ENE	3	b	30·41	− ·12	44	42	− 4	E	2	bm	*	56	41	—
	Oxford	30·50	41	NE	2	b	30·44	− ·10	40	39	− 8	NE	2	b	*	52	35	—
	Cambridge ...	30·52	43	NE	1	b	30·46	− ·12	46	44	− 1	NE	1	0	*	53	37	—
	Yarmouth ...	30·52	49	E	5	b	30·45	− ·10	50	47	0	ENE	4	bc	4	51	46	—
GERMANY & HOLLAND.	Cuxhaven ...	30·63	45	N	2	c	30·53	− ·11	44	43	0	ENE	3	0	*	49	42	0·06
	Berlin	30·60	41	SE	2	bc	30·50	− ·12	34	33	− 4	E	3	b	*	46	32	—
	Wiesbaden ...	*	*	*	*	*	30·34	− ·14	37	33	− 6	NE	2	b	*	46	36	—
	Munich	30·38	34	NE	7	0	30·21	− ·23	31	30	0	NE	4	c	*	37	30	—
	The Helder ...	30·60	48	ENE	2	b	30·50	− ·14	45	43	+ 1	E	1	b	2	48	45	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·38	− ·15	31	31	− 10	NE	3	f	*	46	30	—
	Cape Gris Nez	30·42	41	ENE	5	b	30·34	− ·13	35	34	− 6	E	5	m	4	45	34	—
	Paris	30·35	43	NE	2	b	30·26	− ·14	33	33	− 5	NE	3	b	*	51	32	—
	Brest	30·32	50	ENE	2	b	?	?	42	41	− 5	E	2	0	2	59	39	—
	Lorient	30·26	52	E	2	b	30·18	− ·13	40	38	− 7	ENE	4	b	3	54	39	—
	Rochefort ...	30·20	47	E	4	0	30·08	− ·13	36	35	− 6	ENE	5	b	2	50	32	—
	Belfort	?	36	NE	6	c	?	?	37	30	− 4	NE	6	c	*	47	32	—
	Lyons	30·24	38	WNW	1	b	30·14	− ·12	38	32	− 1	W	1	0	*	46	33	—
	Nice	30·10	49	NE	5	bc	30·09		41	34		E	3	b	3	54	39	—
	Perpignan ...	30·16	44	E	2	b	30·12	− ·05	39	38	0	SW	2	c	*	52	36	—
	Biarritz	30·14	49	E	1	0	30·05	− ·12	42	40	+ 6	SE	2	b	1	59	36	—
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	30·10	62	2	0	b	30·05	− ·08	58	57	+ 1	2	0	b	6	64	57	—

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Tuesday, 3rd Novr., 1891.

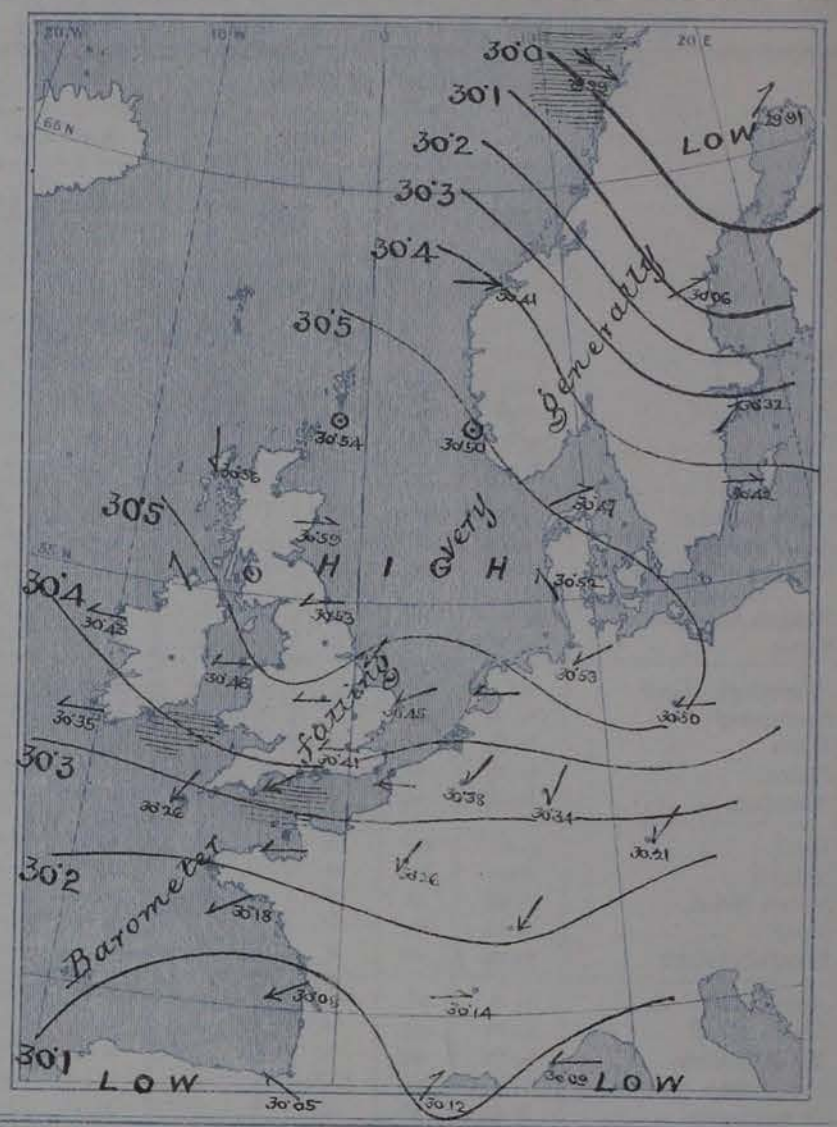
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch.
Changes since previous morning are stated in words.

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

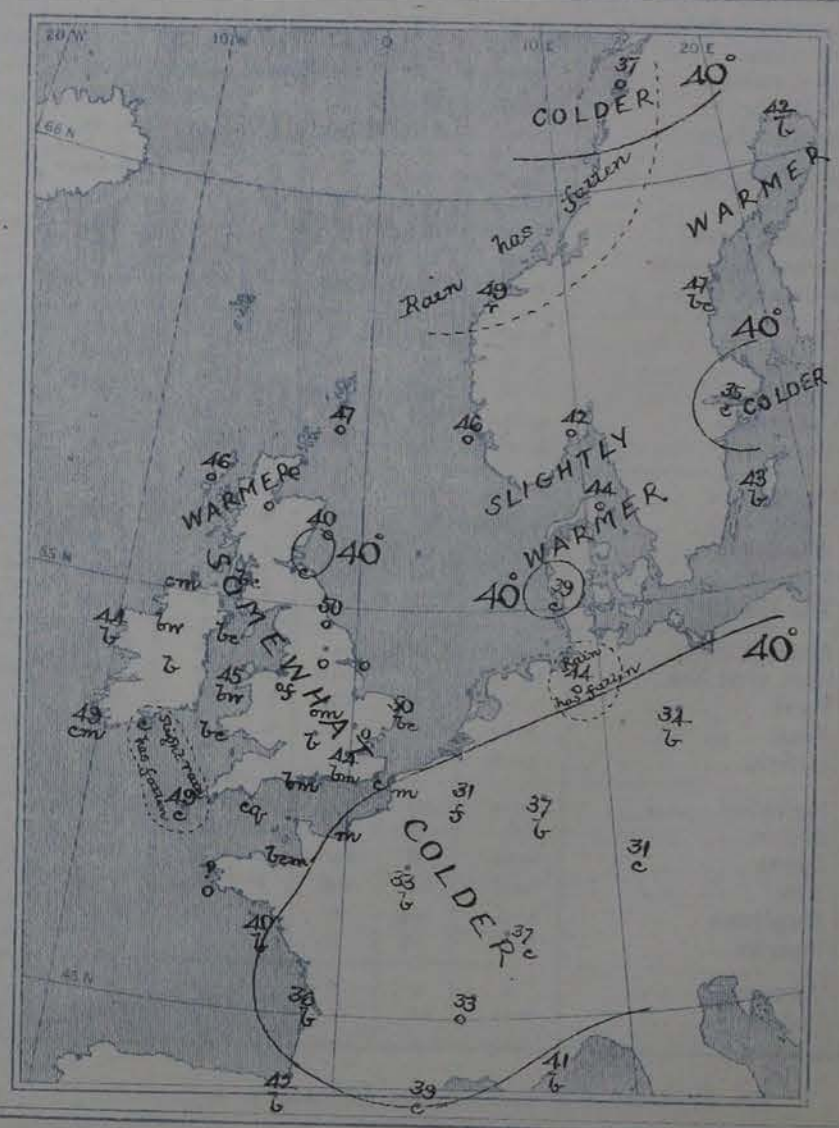
STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·794
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 A.M. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	4·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	45·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·5 ins. and more to 30·4 ins. in the Anticyclone lying over the North Sea and British Islands.
Lowest 30·0 ins. and less over Lapland; 30·1 ins. and less over the Spanish Peninsula.
Gradients very slight over the North Sea and the northern parts of Great Britain, moderate elsewhere – for E.ly winds in the south, and for W.ly and NW.ly over Scandinavia.
Barometer apparently still falling at all stations but not rapidly.

TEMPERATURE

Highest 58° at Lisbon, 50° at Yarmouth and Shields, 49° on our extreme southwestern coasts.
Lowest 31° at Munich, 33° at Lyons and Paris, 34° at Berlin, and 35° at Stockholm, 40° at Boxford.
In London the temperature was 44°, and in nearly all districts it was lower than on Monday.

WIND

(1) Strong to a gale from the W.ward over northern half of Norway, and light from the SW.ward over Sweden.
(2) Very variable, and light to calm at the Scotch stations.
(3) E.ly, moderate to fresh over England, the Channel and Bay of Biscay; E.ly to SE.ly over Ireland.

WEATHER

Dull at our northern stations and in Norway, with rain in the north of Norway; fair over England, Ireland and the Channel, fine and bright over France.

SEA

moderate to rather rough at the southern and southwestern stations, slight to very smooth elsewhere

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer has now fallen somewhat over the whole of our area. The change has been slight over the United Kingdom, considerable in South Germany, and very decided over Lapland and the northern half of Sweden. The anticyclone recently observed still lies over the North Sea and northern parts of our Islands but is irregular in form and decreasing in intensity. No immediate change of weather is indicated.

FORECASTS

For the 24 hours ending at NOON on 4TH NOVEMBER 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Varying and NW.ly breezes; some showers.	6 SCOTLAND WEST	Same as Nos. 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	SE.ly breezes, moderate or light; fair.
2 ENGLAND N.E.	Same as No. 4.	8 ENGLAND S.W.	Same as No. 5.
3 ENGLAND EAST	Same as No. 5.	9 IRELAND NORTH	E.ly winds, moderate; fair.
4 MIDLAND COUNTIES	NE.ly breezes, light; fair.	10 IRELAND SOUTH	
5 ENGLAND SOUTH	NE.ly breezes, moderate inland, fresh on coast; fair as a whole.	WARNINGS	None Issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	30·65	47	46	NNW	1	o	1
Sumburgh Head	30·63	47	47	SSE	1	o	2
Stornoway	30·57	50	50	Z	o	o	2
Aberdeen	30·64	50	46	S	2	c	2
Shields	30·62	51	48	SE	2	a	3
Ardrossan	30·59	53	52	ENE	1	o	1
Malin Head ...	30·52	49	47	SSE	3	o	1
Mullaghmore ...	30·51	50	48	E	2	om	2
Belmullet	30·49	48	47	ESE	2	o	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	30·51	52	49	E	2	bc	1
Valencia	30·38	53	51	E	4	om	4
Scilly	30·35	58	52	E	4	r	4
Jersey	30·37	54	50	E	4	b	3
Dungeness	30·45	50	47	E	4	c	3
London	30·50	53	49	ENE	3	bc	*
Yarmouth	30·55	51	48	E	4	bc	4
Rochefort	30·21	49	45	ENE	5	b	?

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather fair over the greater part of our Islands and the Continent, but with fog or mist in many places. Dull over Austria and the south of Russia, with snow at Nicolaieff. A little rain falling later in the west of Norway and also in some parts of North Germany.

Temperature highest 62° at Corunna, 58° at Oran, 57° at Oporto and Lisbon, and 56° at San-Fernando, Nemours and Algiers; above 50° over the central and southern parts of the Mediterranean generally, and also in the extreme southwest of our Islands, but below that point over the Riviera and northern Italy. Lowest 23° at Buda Pesth, 27° at Moscow, 30° at Kharkov, Nicolaieff and Odessa, and 31° at Kiev; below 40° in most parts of central and eastern Europe, as well as over central Scotland. Daily maxima over western Europe mostly varying between 50° and 55°, but thermometer remaining below 50° over the northern & central countries.

Wind light to fresh from the E^wd. or NE^wd. over England, France, the Netherlands and the greater parts of central and southern Europe, but strong to a gale over the northern parts of the Adriatic. Light or moderate from the SE^wd. in Ireland and Scotland; SW^ly. over the northern parts of Scandinavia, light from the NW^wd. or N^wd. over Russia, Denmark and the south of Scandinavia. Variable or S^ly. in Algeria, W^ly. over Tunis and the adjacent parts of the Mediterranean. No important change occurring during day.

Barometer highest 30·6 ins. to 30·7 ins. over the North Sea, Denmark, North Germany the southern half of Scandinavia and the northeastern parts of Great Britain. Lowest 29·7 ins. and less in a large depression lying over northern Russia, 29·8 ins. and less in another disturbance lying to the south of Italy. Slight fall of barometer taking place over western Europe during day but no important change occurring in general distribution of pressure.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Wednesday 4th Novr. 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30·27	23	NW	2	d	30·10	+·58	22	21	−20	NW	6	b	*	43	?	—
	Hernösand ...	30·15	35	2	0	b	30·40	+·34	25	25	−18	NW	4	b	*	50	?	—
	Stockholm ...	30·18	39	W	2	b	30·25	−·03	33	25	−2	NW	4	bc	*	43	32	—
	Wisby	30·14	45	W	6	0	30·15	−·23	38	36	−5	NE	7	c	*	45	37	0·04
	Bodö	30·26	31	NW	7	c	30·39	+·40	32	31	−5	NW	6	c	3	37	27	—
	Christiansund	30·49	39	NNE	5	0	30·62	+·21	37	34	−12	NE	5	c	5	41	36	0·16
	Skudesnaes ...	30·34	46	NNW	4	b	?	?	40	39	−6	NNE	1	bc	1	48	39	—
	Christiania Fjord (Færder)	30·25	38	NNE	2	f	30·46	+·06	39	33	−3	NNE	6	b	2	43	36	—
	Skagen (The Scaw)	30·18	48	2	0	0	30·36	−·11	40	35	−4	ENE	5	0	3	?	37	—
	Fanö	30·26	47	NW	2	0	30·19	−·33	44	44	+5	N	4	c	*	48	39	—
BRITISH ISLANDS.	Sumburgh Head	30·52	44	2	0	b	30·62	+·08	43	41	−4	NE	2	0	2	49	42	0·01
	Stornoway ...	30·53	48	NE	2	0	30·58	+·02	46	46	0	NE	2	0	2	50	39	0·04
	Wick	30·34	48	NW	1	0	30·60	+·05	46	45	+1	NE	3	c	1	51	37	—
	Nairn	30·51	45	2	0	f	30·55	+·02	43	43	+1	2	0	of	0	46	36	0·01
	Aberdeen ...	30·53	44	WNW	1	0	30·58	−·01	47	44	+7	NE	3	cf	4	47	40	0·01
	Leith	30·52	46	SE	1	0	30·55	−·02	48	46	+8	E	2	bc	*	48	39	—
	Shields	30·49	49	NNE	2	0	30·49	−·04	49	46	−1	NNE	3	0	3	50	44	—
	Spurn Head ...	30·40	49	NE	4	0	30·39	−·10	49	46	0	NNE	5	od	4	51	45	0·01
	York	30·45	48	ENE	1	0	30·45	−·08	47	45	+1	N	2	b	*	50	42	0·01
	Loughborough	30·38	48	ENE	4	0	30·40	−·07	45	44	0	NNW	1	om	*	51	43	0·01
	Ardrossan ...	30·50	48	NE	1	om	30·57	+·02	46	45	+4	NE	1	om	0	51	41	—
	Malin Head ...	30·47	48	SE	3	0	30·55	+·07	46	43	+1	E	3	om	1	49	44	—
	Mullaghmore ...	30·45	46	ENE	4	b	30·54	+·07	47	45	+2	ENE	4	m	2	50	43	—
	Belmullet ...	30·44	44	NE	2	b	30·55	+·12	45	43	+1	E	1	0	*	51	39	—
	Donaghadee ...	30·48	50	SE	3	c	30·56	+·05	46	42	−2	ESE	3	m	1	52	45	—
	Liverpool (Bidston)	30·44	48	NE	2	0	30·49	−·02	45	43	+3	NNE	2	0	2	48	42	—
	Holyhead ...	30·40	47	E	3	bcm	30·48	+·02	47	45	+2	E	3	omg	3	51	44	—
	Parsonstown ...	30·40	44	2	0	b	30·50	+·08	44	43	+3	2	0	o	*	52	32	0·02
	Valencia	30·35	48	E	4	bm	30·47	+·12	40	39	−9	2	0	b	1	54	38	—
	Roche's Point...	30·34	47	ESE	3	b	30·44	+·07	48	46	−1	ENE	3	om	4	51	43	—
	Pembroke (St. Ann's Hd.)	30·35	48	E	3	b	30·42	0·0	46	44	+4	ENE	3	cq	2	50	42	—
	Scilly	30·20	50	E	6	c	30·34	+·08	48	44	−1	NE	5	bc	4	52	44	—
	Prawle Point ...	30·26	48	ENE	5	c	30·33	+·01	48	44	+2	ENE	6	c	5	49	44	—
	Jersey (St. Aubin's)	30·20	48	ENE	5	bm	30·30	+·02	46	45	−1	E	3	bcm	3	50	42	—
	Hurst Castle ...	30·31	46	ENE	5	b	30·35	0·0	47	47	+4	NNE	4	cm	2	52	43	—
GERMANY & HOLLAND.	Dungeness ...	30·24	49	E	6	c	30·30	−·05	46	45	+1	SE	3	d	2	51	44	—
	London	30·34	48	E	3	c	30·36	−·05	47	45	+3	NNE	3	c	*	52	43	—
	Oxford	30·37	46	NE	2	0	30·40	−·04	44	43	+4	N	1	od	*	50	39	—
	Cambridge ...	30·37	47	NE	1	0	30·38	−·08	47	46	+1	N	1	d	*	52	43	0·01
	Yarmouth ...	30·35	49	ENE	5	c	30·32	−·13	48	47	−2	N	5	cq	5	51	46	0·03
	Cuxhaven ...	30·41	43	NE	3	0	30·19	−·34	43	42	−1	SW	2	f	*	45	41	0·04
	Berlin	30·32	36	2	0	b	30·21	−·29	28	28	−6	SW	2	b	*	41	28	—
	Wiesbaden ...	*	*	*	*	*	30·23	−·11	27	26	−10	N	1	0	*	43	27	—
	Munich	30·15	30	NE	1	bc	30·15	−·06	25	25	−6	NW	3	bc	*	39	25	—
	The Helder ...	30·38	46	ENE	2	c	30·27	−·23	48	47	+3	N	1	c	2	48	45	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·28	−·10	29	29	−2	2	0	f	*	45	29	—
	Cape Gris Nez	30·25	41	NE	5	b	30·27	−·07	40	38	+5	E	3	bc	4	46	35	—
	Paris	30·20	37	NNE	2	bc	30·25	−·01	26	26	−7	NNE	2	bc	*	46	26	—
	Brest	30·15	45	E	4	b	30·24	?	38	38	−4	E	1	b	2	54	36	—
	Lorient	30·11	46	ENE	4	b	30·15	−·03	38	34	−2	ENE	4	b	3	52	37	—
	Rochefort ...	30·05	41	E	4	b	30·06	−·02	38	36	+2	E	4	b	*	52	34	—
	Belfort	30·14	32	NE	4	bc	30·14	?	25	26	−8	NE	4	f	*	?	26	—
	Lyons	30·14	35	NNW	1	b	30·20	+·06	30	30	−3	N	1	0	*	46	30	—
	Nice	30·08	45	2	0	b	30·05	−·04	40	35	−1	E	1	b	2	54	37	—
	Perpignan ...	30·03	51	SE	2	0	30·10	−·02	47	46	+8	NE	2	0	*	56	?	?
	Biarritz	29·99	54	W	4	0	29·96	−·09	48	42	+6	SE	3	0	2	55	?	—
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	29·97	60	WSW	3	0	29·85	−·20	55	55	−3	2	0	0	?	64	52	1·30

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on WEDNESDAY, 4TH NOV^R., 1891.

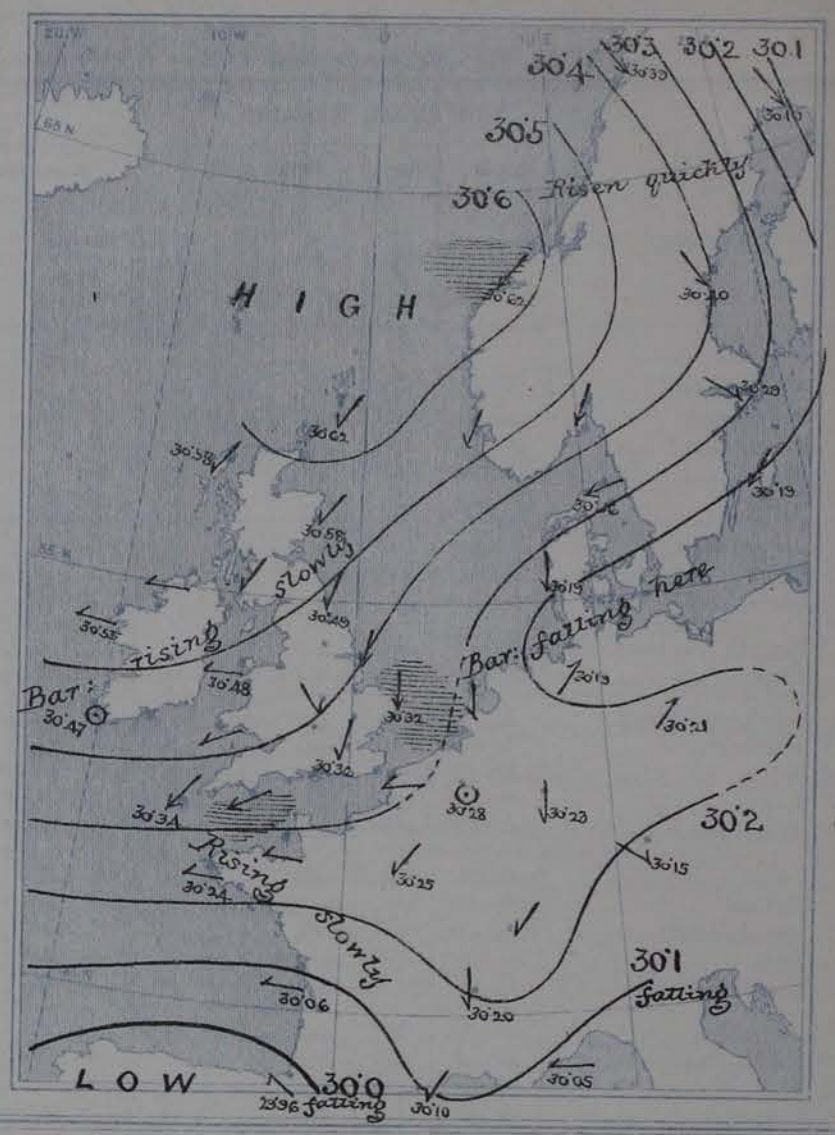
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

WIND—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
c = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8·0 a.m. for the month of November During the 20 Years: 1871—1890.

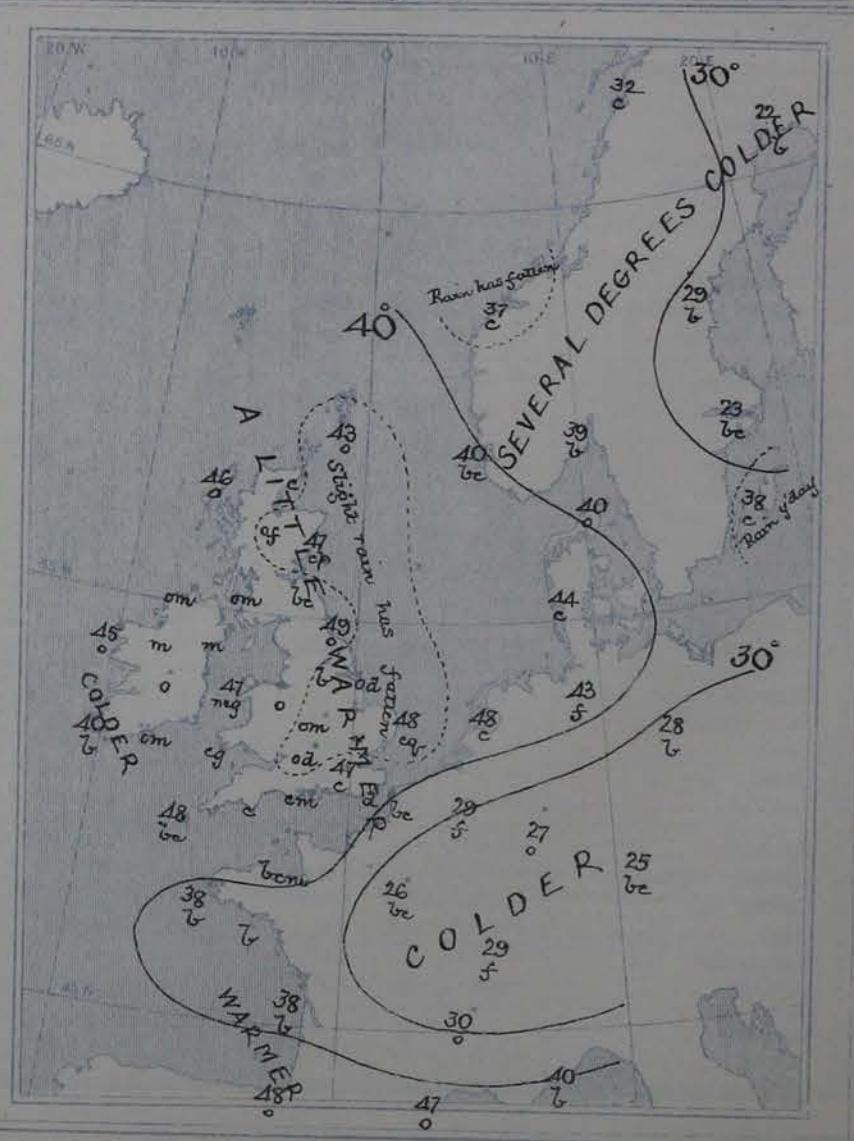
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL (Inches.)
Sumburgh Head	45·8	37·8	42·0	40·3	4·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	46·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·2	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·4	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	45·3	39·2	43·2	42·0	4·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·4	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·26
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	45·5	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·6 ins. and more to 30·4 ins. over Norway and all the northern and western parts of our Islands.
Lowest, 30·2 ins. and less, over the Baltic and 30·0 ins. and less, over the southern side of the Bay of Biscay.
Gradients slight in the north and over the Netherlands and France, moderate elsewhere.
Barometer rising in all parts of our Islands, falling slightly in the southwest of France.

TEMPERATURE

Highest, 49° on our northeast coast, 48° at Biarritz and Yarmouth, 47° at Perpignan, London, and Cambridge.
Lowest, (1) 29° at Haparanda, 32° at Haparanda; (2) 25° at Munich, 26° at Paris, 27° at Wiesbaden, 28° at Berlin.
The daily maxima reported over England yesterday ranged between 50° and 52°.

WIND

Strong from NW. over Lapland and the Gulf of Bothnia, N. to E. in our Islands, E. over the Bay of Biscay, variable over central France and Western Germany.

WEATHER

Fine and bright over the west of France and the southwest of our Islands, foggy at Brussels and Belfort, cloudy, more or less, elsewhere, with some rain in several parts of our Islands.

SEA

Moderate in the Channel and on our northeast coasts, rather rough at Prawle Point and Yarmouth, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Since yesterday the barometer has risen quickly over Scandinavia and slightly over Scotland and Ireland, but has fallen briskly over the Baltic and North Germany, and slightly over the southeast of England and southwest of France. The anticyclone now lies further to the northward than it did yesterday and is apparently increasing in intensity and spreading southeastwards.

FORECASTS

For the 24 hours ending at NOON on 5th Nov. 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NE. breezes, moderate or light; some showers, bright intervals.	6 SCOTLAND WEST	Same as Nos 0 to 2
1 SCOTLAND EAST		7 ENGLAND N.W.	E. breezes, moderate; fair.
2 ENGLAND N.E.		8 ENGLAND S.W.	Same as No 5
3 ENGLAND EAST	Same as No 5.	9 IRELAND NORTH	Same as No 7.
4 MIDLAND COUNTIES	Same as No 0 to 2.	10 IRELAND SOUTH	
5 ENGLAND SOUTH	NE. breezes, moderate and fresh; slight cold showers.	WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA	SEA
Skudesnaes ...	30·43	48	45	NNW	2	o	1
Sumburgh Head	30·39	48	48	NNE	1	bc	1
Stornoway	30·34	50	50	NE	2	p	2
Aberdeen	30·54	45	43	W	1	o	1
Shields	30·50	50	46	NNE	1	o	3
Ardrossan	30·50	48	47	NE	1	om	1
Malin Head ...	30·48	49	45	SSE	3	o	o
Mullaghmore ...	30·45	50	46	E	5	bc	2
Belmullet	30·42	51	48	E	2	b	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA	SEA
Holyhead	30·40	50	46	E	4	bm	3
Valencia	30·32	53	49	E	5	bm	4
Scilly	30·22	51	48	ENE	5	c	3
Jersey	30·21	50	46	E	5	bm	3
Dungeness	30·28	51	46	E	6	c	4
London	30·35	51	47	E	2	o	*
Yarmouth	30·39	51	48	ENE	4	bc	4
Rochefort	30·05	50	44	ENE	4	b	?

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather dull in the northern and central parts of Great Britain as well as in Norway, Denmark, Russia and Italy, rain falling at Christiansund, and also at Naples and Palermo. Fine in nearly all other parts of Europe, but with fog and mist in some places. Slight rain falling later at some of our own northern and eastern stations, but weather remaining fair and dry elsewhere.

Temperature highest 60° at Nemours, 58° at Lisbon, 57° at Palermo, and 56° at Oran; above 50° over the southern parts of the Mediterranean generally, but below 45° over Corsica, Sardinia and the Riviera. Lowest 20° at Nicolaieff, 23° at Moscow and Kiev, 25° at Kemberg, and 26° at Cracow, Kharkov and Odessa; below 35° in most parts of Russia and Central Europe. Daily maxima very little above 50° in any part of the United Kingdom, and below 45° at most of the German stations.

Wind E^ly or NE^ly over England, Ireland, and the greater part of central, southern, and eastern Europe, light or moderate in force generally, but fresh or strong at the Channel stations, as well as in some parts of Italy. Calm or very variable in Scotland. W^ly over Scandinavia and northern and central Russia, with a gale at Bodö and Ulleaborg. Subsequently shifting to the W^ly at Lisbon and Biarritz, but no important change occurring elsewhere.

Barometer highest 30·5 ins: and upwards, in a long band stretching from the north of our Islands across the North Sea, Denmark, and north and east of Germany to the south of Russia. Lowest 29·5 ins: and less, in a large depression over Lapland and the White Sea; 29·9 ins. and less, in a shallow area lying over the south of Italy and the adjacent parts of the Mediterranean. New disturbance, subsidiary to the northern depression appearing later over Central Sweden. Barometer falling slightly over Western Europe.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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DAILY WEATHER REPORT.

for Thursday 5th November. 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30·12	24	W	2	0	29·63	−·47	32	32	+10	SW	4	8	*	?	16	—
	Hernösand ...	30·41	27	NW	2	6	30·04	−·36	36	32	+7	SW	2	c	*	36	28	—
	Stockholm ...	30·49	29	NNW	2	6	30·35	+·06	30	28	−3	W	2	0	*	39	27	—
	Wisby	30·43	33	NNE	8	8	30·45	+·26	35	33	−2	WNW	4	6	*	39	30	0·12
	Bodö	30·20	36	W	6	m	29·76	−·63	45	43	+13	W	7	7	4	?	32	0·32
	Christiansund	30·36	39	W	4	0	30·35	−·27	41	38	+4	SW	6	7	5	41	37	0·04
	Skudesnaes ...	30·65	46	W	6	0	30·55	?	39	38	−1	N	3	c	2	?	37	0·08
	Christiania Fjord (Færder)	30·60	39	NNE	3	6	30·41	−·05	36	33	−3	W	3	6	2	39	36	—
	Skagen (The Scaw)	30·61	36	ENE	5	6	30·47	+·11	37	33	−3	WSW	4	0	1	?	28	—
	Fanö	30·60	31	NE	4	6	30·64	+·45	28	27	−16	Z	0	6	*	45	27	—
BRITISH ISLANDS.	Sumburgh Head	30·67	42	Z	0	c	30·35	−·05	44	43	+1	W	1	c	2	45	36	—
	Stornoway ...	30·65	48	SE	4	0	30·62	+·04	46	45	0	SW	2	0	2	49	43	—
	Wick	30·69	45	NE	1	bc	30·63	+·03	39	38	−7	WNW	1	bc	1	47	36	—
	Nairn	30·65	43	Z	0	0	30·65	+·08	40	39	−3	Z	0	c	1	47	37	0·01
	Aberdeen ...	30·69	43	N	2	0	30·69	+·11	41	37	−6	W	2	c	4	47	38	—
	Leith	30·66	46	ENE	3	0	30·70	+·15	42	41	−6	WSW	1	f	*	49	41	0·03
	Shields	30·61	47	NNE	3	0	30·67	+·18	44	43	−5	NW	1	0	4	50	41	0·01
	Spurn Head ...	30·47	48	NNE	6	7	30·65	+·26	47	41	−2	NE	4	0g	5	50	45	0·02
	York	30·55	46	NNE	2	0	30·70	+·25	43	41	−4	N	1	0	*	50	40	—
	Loughborough	30·47	46	NNE	2	0	30·63	+·23	44	43	−1	NE	3	0m	*	49	44	—
	Ardrossan ...	30·60	46	ENE	1	0m	30·71	+·14	43	42	−3	Z	0	0m	0	50	42	—
	Malin Head ...	30·62	48	E	3	0	30·68	+·13	44	43	−2	S	2	0	0	48	44	—
	Mullaghmore ...	30·61	48	ENE	3	0m	30·69	+·15	46	44	−1	SSE	1	0	2	48	45	—
	Belmullet ...	30·63	45	ENE	2	0	30·68	+·13	44	43	−1	SE	1	0	*	47	43	—
	Donaghadee ...	30·61	50	E	3	c	30·71	+·15	46	44	0	ENE	3	c	1	56	46	—
	Liverpool (Bidston)	30·55	47	NE	3	0	30·69	+·20	46	43	+1	E	1	0	2	48	43	—
	Holyhead ...	30·54	50	NE	4	0g	30·68	+·20	45	44	−2	E	1	cw	1	50	43	—
	Parsonstown ...	30·56	44	Z	0	0	30·67	+·17	45	43	+1	Z	0	c	*	46	42	—
	Valencia	30·56	48	ENE	1	0m	30·66	+·19	48	46	+8	NNW	1	0g	1	51	40	—
	Roche's Point ...	30·53	48	ENE	3	0	30·64	+·20	48	46	0	ENE	2	0m	4	50	44	—
	Pembroke (St. Ann's Hd.)	30·50	47	ENE	2	c	30·64	+·22	47	45	+1	ENE	2	cg	1	48	45	—
	Scilly	30·39	49	ENE	5	c	30·58	+·19	50	47	+2	ENE	5	bc	4	50	44	—
	Prawle Point ...	30·41	48	ENE	4	0	30·55	+·22	49	47	+1	ENE	6	0g	5	49	46	—
	Jersey (St. Aubin's)	30·34	51	ENE	8	0gmd	30·50	+·20	50	46	+4	E	5	6m	4	51	44	—
	Hurst Castle ...	30·40	49	NNE	4	c	30·59	+·24	46	45	−1	NE	4	cm	1	49	45	—
	Dungeness ...	30·28	49	NE	3	7	30·54	+·24	46	42	0	E	6	c	4	50	44	0·06
	London	30·40	45	NE	4	0fd	30·61	+·25	47	43	0	ENE	3	c	*	51	45	—
	Oxford	30·48	46	NE	1	0	30·64	+·24	45	44	+1	NE	1	odf	*	49	44	0·01
	Cambridge ...	30·44	47	N	3	7	30·66	+·28	45	42	−2	NE	1	0	*	50	43	0·04
	Yarmouth ...	30·37	50	NE	7	0g7	30·60	+·28	46	43	−2	ENE	4	c	4	51	44	0·03
GERMANY & HOLLAND.	Cuxhaven ...	30·35	42	NE	6	bc	30·61	+·42	35	33	−8	NE	3	6	*	47	34	—
	Berlin	30·28	40	NE	3	bc	30·53	+·32	33	32	+5	N	3	6	*	41	?	0·04
	Wiesbaden ...	*	*	*	*	*	30·45	+·26	37	34	+10	N	1	6	*	39	?	—
	Munich	30·18	32	NW	2	0	30·38	+·23	30	29	+5	NE	1	c	*	37	25	0·04
	The Helder ...	30·47	48	ENE	4	c	30·67	+·40	38	35	−10	E	1	6	2	52	37	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·58	+·30	35	34	+6	NE	4	0	*	43	29	0·04
	Cape Gris Nez	30·26	49	NNE	5	7	30·50	+·23	41	39	+1	ENE	4	c	4	52	39	0·04
	Paris	30·26	41	N	2	0	30·47	+·22	34	38	+8	NE	3	bc	*	43	?	—
	Brest																	
	Lorient	30·25	47	ENE	3	6	30·36	+·21	49	44	+11	ENE	3	6	2	49	37	—
	Rochefort ...	30·16	43	E	4	6	30·26	+·20	38	37	0	E	5	0	*	54	32	—
	Belfort	?	29	NE	3	c	?	?	31	25	+2	NE	3	bc	*	33	26	—
	Lyons	30·15	37	NNW	1	6	30·27	+·07	31	30	+1	NNW	2	m	*	44	30	—
	Nice	30·00	46	Z	0	6	30·09	+·04	42	38	+2	E	2	6	1	54	39	—
	Perpignan ...	30·06	44	NW	1	6	30·10	0·0	46	44	−1	N	3	c	*	50	40	0·16
	Biarritz	30·05	50	E	3	6	30·14	+·18	37	35	−11	ENE	4	6	2	59	34	—
PENINSULA.	Corunna	*	*	*	*	*	29·89	+·04	53	48	−2	NE	5	6	5	63	52	0·28
	Lisbon	29·89	59	NE	4	bc	29·89	+·04	53	48	−2	NE	5	6	5	63	52	0·28

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Thursday, 5th Nov^r., 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

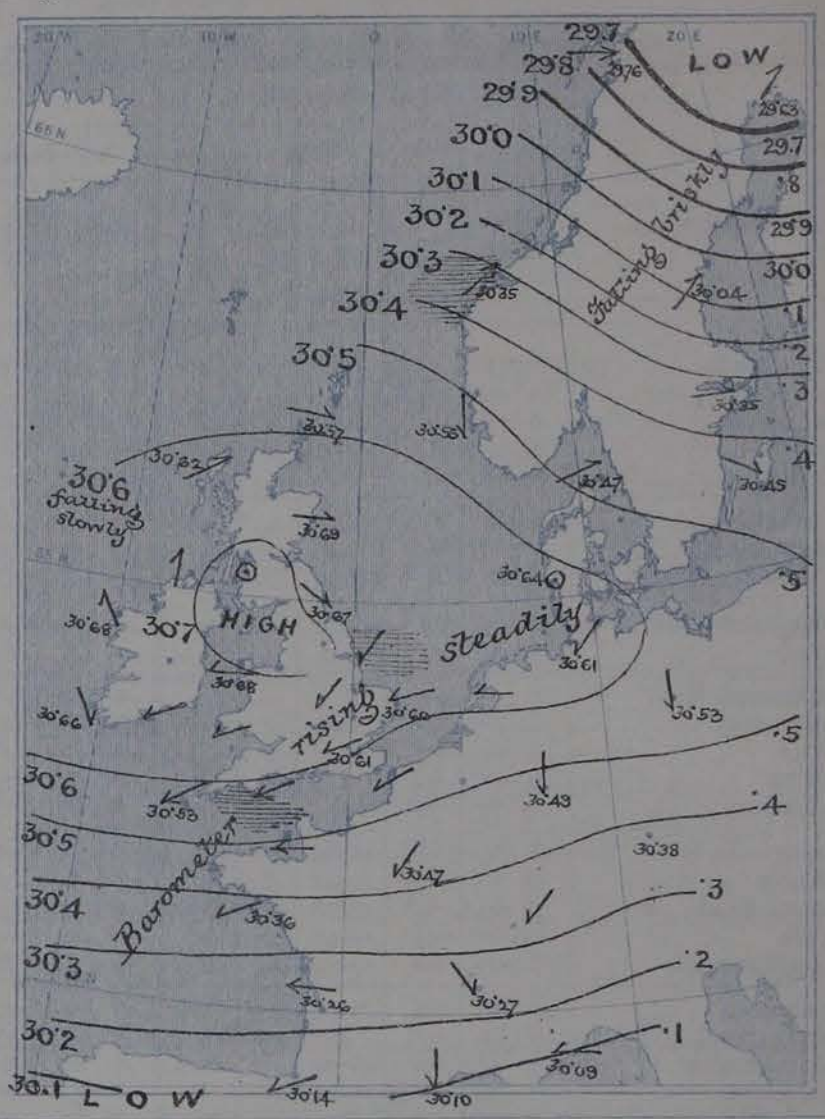
BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

WIND—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—

= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:

= Rough = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

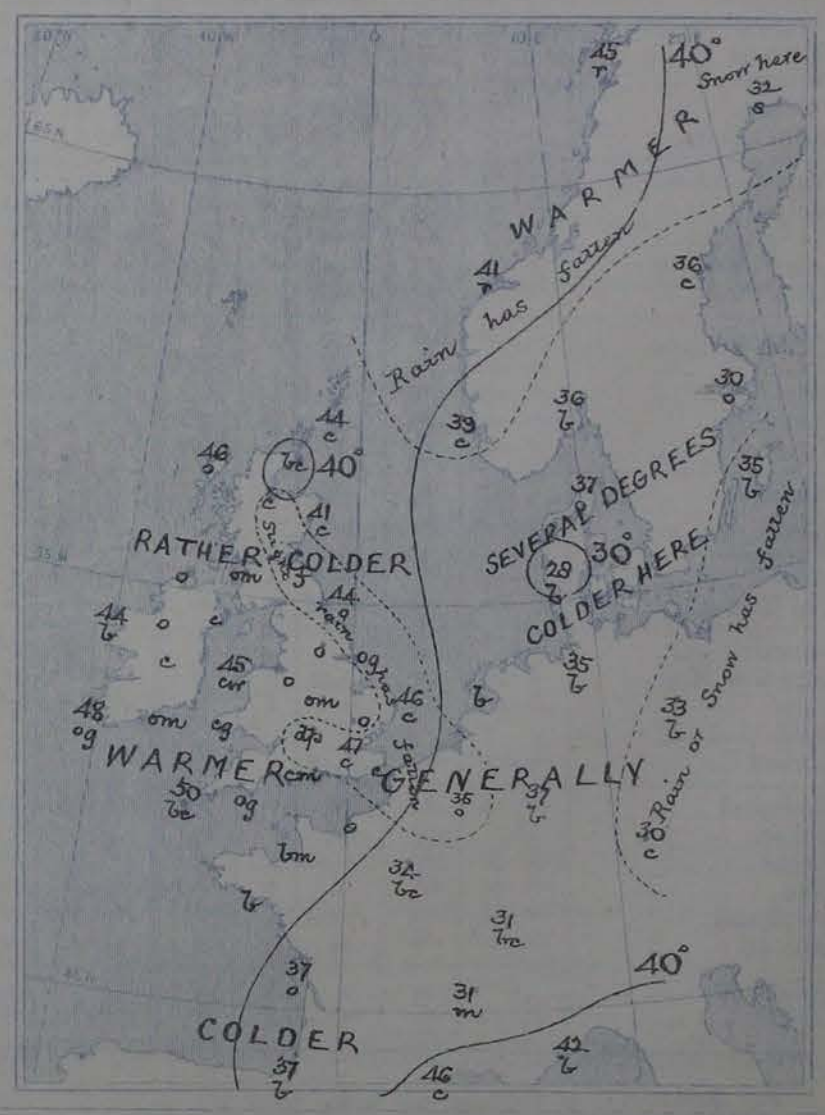
STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·583
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	4·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	45·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·3	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·10
York	47·5	36·4	40·6	39·3	2·10
Loughborough	48·0	38·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·0	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·26
Holyhead	49·7	42·3	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·7 ins: and more to 30·5 ins: in an anticyclone now covering the British Isles and North Sea.
Lowest, 29·7 ins: and less, in a depression over Lapland, and 29·9 ins: and less, over the southern half of Scandinavia.
Gradient somewhat steep (for W^{ly} winds) over Norway and Sweden, moderate (for E^{ly} winds) over the Bay of Biscay, France and the Channel, and very light and variable over the United Kingdom. Barometer falling in the north, rising in the south.

TEMPERATURE

Highest, (1) 53° at Lerwick, 50° at Scilly; (2) 46° at Stornoway and 45° at Bodö.
Lowest, (1) 30° to 36° at the Swedish stations; (2) 30° to 37° at the German stations, 31° at Lyons, 34° at Paris.
It appears to be now rising in the north of Scotland.

WIND

SW^{ly} to W^{ly}, strong to a gale, over the northern half of Norway.
Very light from the same quarters in the Shetlands and Hebrides; calm over Ireland and Scotland.
NE^{ly} and E^{ly} elsewhere, and blowing freshly over the Channel and Bay of Biscay.

WEATHER

Dull and rainy in the far north, with snow at Haparanda.
Cloudy over the British Islands generally, with fog in places, fine over Germany and France.
Rain has fallen at some northern stations, and very slight drizzle locally in the southeast of England.

SEA

Moderate to rather rough at the southern stations, smooth on our own northern coasts, rather rough off the northwest of Norway

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The high pressure area which lay over the northern parts of our area yesterday is now moving in a southerly or southeasterly direction; a well marked depression has reached the north of Scandinavia from the Atlantic, and other low pressure systems appear to be advancing towards the northwest of Scotland. Strong SW^{ly} winds have set in over the northern half of Norway, and winds from the same quarter appear likely to spread over our own northwestern and northern districts shortly. The NE^{ly} wind in the south is likely to die down

FORECASTS

For the 24 hours ending at NOON on 6th November 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Westerly and Southwesterly winds; increasing in strength; showery.	6 SCOTLAND WEST	Same as Nos 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	Southeasterly and Southerly winds, moderate; fair, becoming warmer tomorrow.
2 ENGLAND N.E.	Calms and light breezes; fair, faggy, cold.	8 ENGLAND S.W.	Easterly to Southeasterly winds; fair generally.
3 ENGLAND EAST	Same as No 5.	9 IRELAND NORTH	Southeasterly to Southerly and Southwesterly winds; warmer, cloudy, some rain in the west.
4 MIDLAND COUNTIES	Same as No 2.	10 IRELAND SOUTH	
5 ENGLAND SOUTH	Northeasterly and Easterly winds, fresh to moderate; fair but hazy and gloomy at times.	WARNINGS	None issued at present.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	30·57	47	42	NNW	4	o	3
Sumburgh Head	30·65	48	40	NNE	1	o	3
Stornoway	30·64	49	48	2	0	o	2
Aberdeen	30·65	45	44	NNE	3	oq	4
Shields	30·55	47	45	NNE	3	o	4
Ardrossan	30·61	49	48	NE	1	om	1
Malin Head ...	30·60	48	45	E	2	o	1
Mullaghmore ...	30·59	47	44	ENE	4	om	2
Belmullet	30·61	47	45	E	2	o	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	30·52	49	46	ENE	4	oq	3
Valencia	30·52	53	47	ENE	2	oh	2
Scilly	30·37	53	46	NE	5	cm	4
Jersey	30·51	51	48	E	3	bc	3
Dungeness	30·27	53	49	NE	4	c	3
London	30·36	51	48	NE	3	odp	*
Yarmouth	30·32	51	49	NNE	5	cmd	5
Rochefort	30·10	54	48	E	4	b	?

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather cloudy or overcast over a considerable part of our Islands and the Continent, with fog or mist in many places, and with slight drizzle in some part of Great Britain and steady rain over Central Russia. Fine over Scandinavia and northern Russia, as well as over France, Algeria and northern Italy. Rain falling later at several of the Scandinavian stations, as well as in Germany and the north of France, and snow at Visby.

Temperature highest 61° at San Fernando, Nemours, and Algiers, 58° at Malta, and 56° at Oran; above 50° over the central and southern parts of the Mediterranean generally, as well as on the coasts of the Spanish Peninsula; very little below 50° in the eastern and southern parts of the United Kingdom. Lowest 22° at Archangel, Haparanda, and Kuopio, 24° at Uleaborg, Warsaw, and Cracow, and 25° at Munich and Hermanstadt, below the freezing point over nearly the whole of Russia and Central Europe, as well as over the inland parts of France. Daily maxima below 50° in most part of Western Europe, and below 40° at some of the German stations, but thermometer reaching 63° at Leibau.

Wind E. or NE. over the greater part of western and southern Europe, light or moderate in force generally, but strong in the southwest of our Islands and also in the south of Scandinavia, NW. over Sweden and northern Russia, with a gale at Archangel; light from the W. over North Germany and the central and southern parts of Russia; variable in Austria, S. in Algeria. No important change occurring during day.

Barometer highest 30·6 ins: and upwards in a large area lying to the northward of our Islands and the westward of Norway; 30·3 ins: and upwards in an anticyclone covering the greater part of northwestern Europe. Lowest, 29·6 ins: and less, in a depression lying over northern Russia; 29·9 ins: and less, in a shallow disturbance lying over the southwestern parts of the Spanish Peninsula. Slight rise taking place over Western Europe during day, but no important change occurring in distribution of pressure.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT.

for Friday 6th November. 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Wet.	Difference from 8 a.m. yesterday.	Wind. Direc.	Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.55	20	N	2	b	30.26	+.63	11	11	−21	Z	0	bc	*	34	?	—
	Hernösand ...	29.52	?	WSW	2	0	30.26	+.22	36	33	0	NNE	4	0	*	?	23	—
	Stockholm ...	30.05	35	W	4	0	30.22	−.13	39	37	+9	NNW	2	c	*	?	25	—
	Wisby	30.11	39	WNW	4	b	30.16	−.25	44	42	+9	NNE	4	0	*	?	33	—
	Bodö	29.98	40	N	2	0	30.11	−.35	40	36	−5	SW	2	0	1	45	36	0.12
	Christiansund	30.25	46	WNW	6	0	30.31	−.04	46	43	+5	SW	3	c	3	?	?	0.24
	Skudesnaes ...	30.38	46	NW	2	c	30.38	−.17	40	39	+1	NNE	1	c	2	46	39	0.28
	Christiania Fjord (Færder)	30.23	43	WNW	3	bc	30.30	−.11	42	39	+6	NNW	3	b	1	43	?	—
	Skagen (The Skaw)	30.24	46	NNW	1	b	30.28	−.19	46	43	+9	N	1	bc	0	?	36	0.08
	Fanö	30.41	42	NW	4	b	30.36	−.28	42	42	+14	NE	1	c	*	45	28	0.24
BRITISH ISLANDS.	Sumburgh Head	30.48	43	Z	0	c	30.34	−.23	45	45	+1	Z	0	0	1	48	42	0.05
	Stornoway ...	30.53	46	Z	0	0	30.34	−.28	48	47	+2	SW	4	0	4	48	44	—
	Wick	30.50	45	NW	1	0	30.40	−.23	46	45	+7	SW	2	0	1	49	38	0.05
	Nairn	30.53	45	Z	0	0	30.41	−.24	46	43	+6	SW	1	0	1	47	38	—
	Aberdeen ...	30.57	43	W	1	bc	30.47	−.22	43	41	+2	W	1	cm	2	47	41	—
	Leith	30.61	44	WSW	1	0	30.45	−.21	44	43	+2	WSW	1	bcm	*	47	41	—
	Shields	30.59	45	NW	1	0	30.47	−.20	43	41	−1	WNW	1	0	3	47	40	—
	Spurn Head ...	30.57	47	ENE	2	0	30.46	−.15	45	43	−2	NW	4	odm	3	48	43	—
	York	30.61	45	N	1	0	30.50	−.20	42	41	−1	NNW	1	0	*	47	39	—
	Loughborough	30.59	44	NNE	1	0	30.49	−.14	41	39	−3	NW	1	ogm	*	48	40	—
	Ardrossan ...	30.61	45	ENE	1	om	30.50	−.21	43	43	0	ENE	1	om	0	46	42	—
	Malin Head ...	30.61	45	S	2	0	30.47	−.21	44	41	0	S	3	0	1	46	43	—
	Mullaghmore ...	30.62	46	Z	0	om	30.49	−.20	47	43	+1	SW	2	omg	2	47	44	—
	Belmullet ...	30.62	46	SE	1	0	30.47	−.21	48	46	+4	SW	1	0	*	50	44	—
	Donaghadee ...	30.65	48	E	1	m	30.54	−.17	44	42	−2	SW	2	m	0	48	40	—
	Liverpool (Bidston)	30.64	45	WSW	1	0	30.53	−.16	44	40	−2	NNE	1	0	1	48	43	—
	Holyhead ...	30.62	47	Z	0	0g	30.53	−.15	45	43	0	Z	0	cmg	0	51	44	—
	Parsonstown ...	30.63	45	Z	0	0	30.55	−.12	42	40	−3	Z	0	c	*	48	41	—
	Valencia	30.62	48	NE	1	og	30.54	−.12	46	43	−2	SE	1	og	1	51	44	—
	Roche's Point ...	30.63	49	ENE	3	om	30.56	−.08	46	45	−2	NNE	2	om	3	52	45	—
	Pembroke (St. Ann's Hd.)	30.61	47	E	2	0	30.55	−.09	43	40	−4	E	2	ogm	1	49	43	—
	Scilly	30.53	50	NE	4	c	30.50	−.03	46	43	−4	ENE	4	c	3	51	43	—
	Prawle Point ...	30.56	46	ENE	4	c	30.52	−.03	41	39	−8	NNE	2	og	1	?49	41	—
	Jersey (St. Aubin's)	30.52	47	ENE	3	bcm	30.52	+.02	40	37	−10	ENE	2	bcm	2	50	39	—
	Hurst Castle ...	30.60	45	ENE	4	bc	30.52	−.07	41	40	−5	NE	3	cm	1	49	37	—
	Dungeness ...	30.54	44	ENE	3	bc	30.48	−.06	40	39	−6	ENE	2	c	0	47	35	—
	London	30.60	43	ENE	2	0	30.51	−.10	38	37	−9	Z	0	ofg	*	48	35	—
	Oxford	30.61	43	NE	2	0	30.53	−.11	40	38	−5	NNE	1	ogm	*	47	37	—
	Cambridge ...	30.60	43	N	1	0	30.51	−.15	41	40	−4	SW	1	0	*	48	38	—
	Yarmouth ...	30.57	44	Z	0	c	30.46	−.14	43	42	−8	WNW	2	ofg	3	47	40	0.03
GERMANY & HOLLAND.	Cuxhaven ...	30.57	35	WSW	1	m	30.38	−.23	40	39	+5	WSW	3	b	*	42	35	0.04
	Berlin	30.51	37	W	1	bc	30.41	−.12	36	31	+3	SW	2	0	*	39	30	—
	Wiesbaden ...	*	*	*	*	*	30.47	−.02	25	24	−12	NE	1	bc	*	41	25	—
	Munich	30.46	27	SE	3	b	30.38	+.01	19	18	−11	E	3	b	*	36	18	—
	The Helder ...	30.60	34	ESE	1	b	30.46	−.21	44	42	+6	WSW	1	c	1	45	34	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30.45	−.05	28	27	−7	Z	0	b	*	40	28	—
	Cape Gris Nez	30.51	37	ENE	3	bc	30.45	−.05	37	34	−4	ESE	2	c	1	45	34	—
	Paris	30.48	35	NE	2	b	30.44	−.03	25	25	−9	NNE	2	b	*	48	24	—
	Brest	?	44	E	1	b	?		41	39		ESE	2	b	2	55	37	—
	Lorient	30.40	42	ENE	5	b	30.39	+.03	37	34	−12	ENE	3	b	2	50	37	—
	Rochefort ...	30.28	43	ENE	6	b	30.30	+.04	32	30	−6	ENE	4	b	*	46	28	—
	Belfort	?	29	NE	4	bc	?	?	31	23	0	NE	4	bc	*	41	27	—
	Lyons														*			
	Nice	30.14	46	E	4	b	30.19	+.10	40	35	−2	E	1	b	5	54	37	—
	Perpignan ...	30.16	49	N	2	0	30.23	+.13	44	39	−2	N	2	0	*	53	43	—
	Biarritz	30.19	43	ESE	3	b	30.21	+.07	34	32	−3	SE	2	b	1	50	32	—
PENINSULA.	Corunna	*	*	*	*	*	29.90	+.01	52	46	−1	NNE	5	c	3	59	52	—
	Lisbon	29.87	56	NE	5	b												

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Friday, 6th Nov.r, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

WIND - Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus —

= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

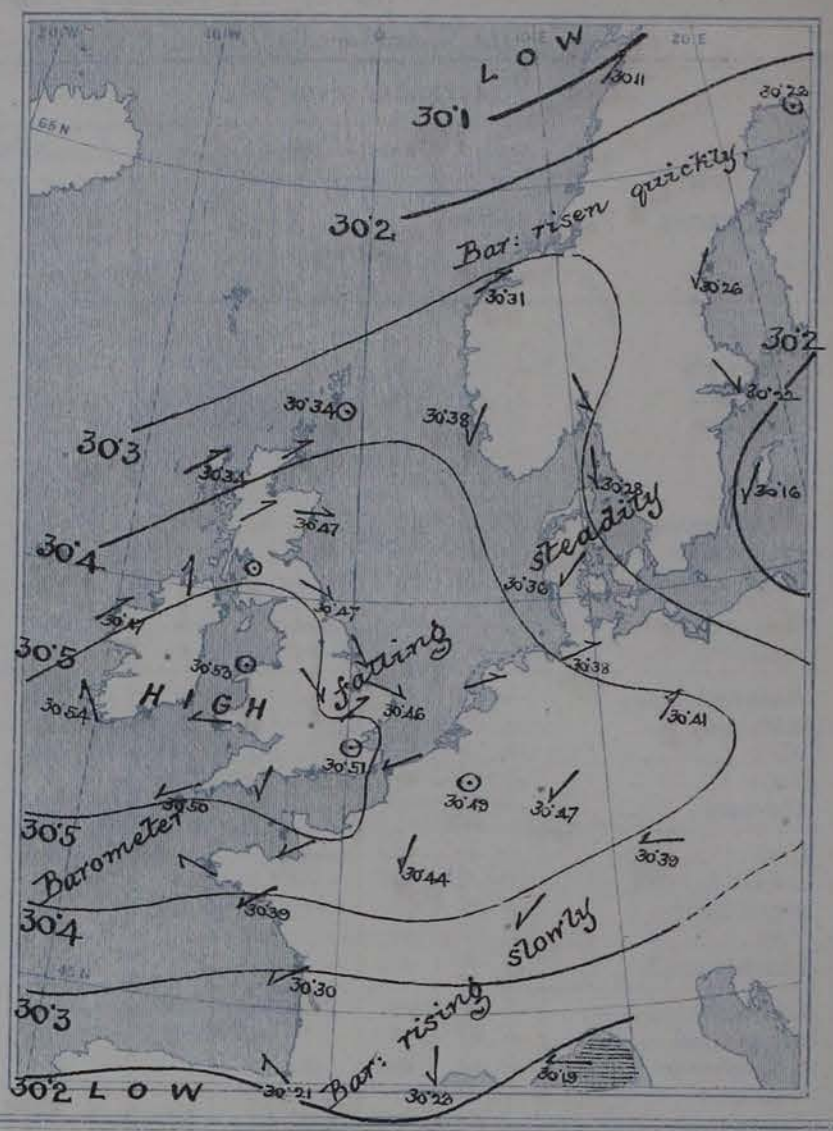
SEA DISTURBANCE—Where considerable, is shewn thus:

= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29 · 683
Stornoway	29 · 699
Wick	29 · 722
Nairn	29 · 738
Aberdeen	29 · 758
Leith	29 · 789
Shields	29 · 813
Spurn Head	29 · 842
York	29 · 846
Loughborough	29 · 877
Ardrossan	29 · 791
Mullaghmore	29 · 789
Donaghadee	29 · 810
Holyhead	29 · 835
Liverpool	29 · 851
Parsonstown	29 · 847
Valencia	29 · 865
Roche's Point	29 · 865
Pembroke	29 · 864
Scilly	29 · 897
Prawle Point	29 · 914
Jersey	29 · 928
Hurst Castle	29 · 902
Dover	29 · 893
LONDON	29 · 898
Oxford	29 · 896
Cambridge	29 · 887
Yarmouth	29 · 865



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

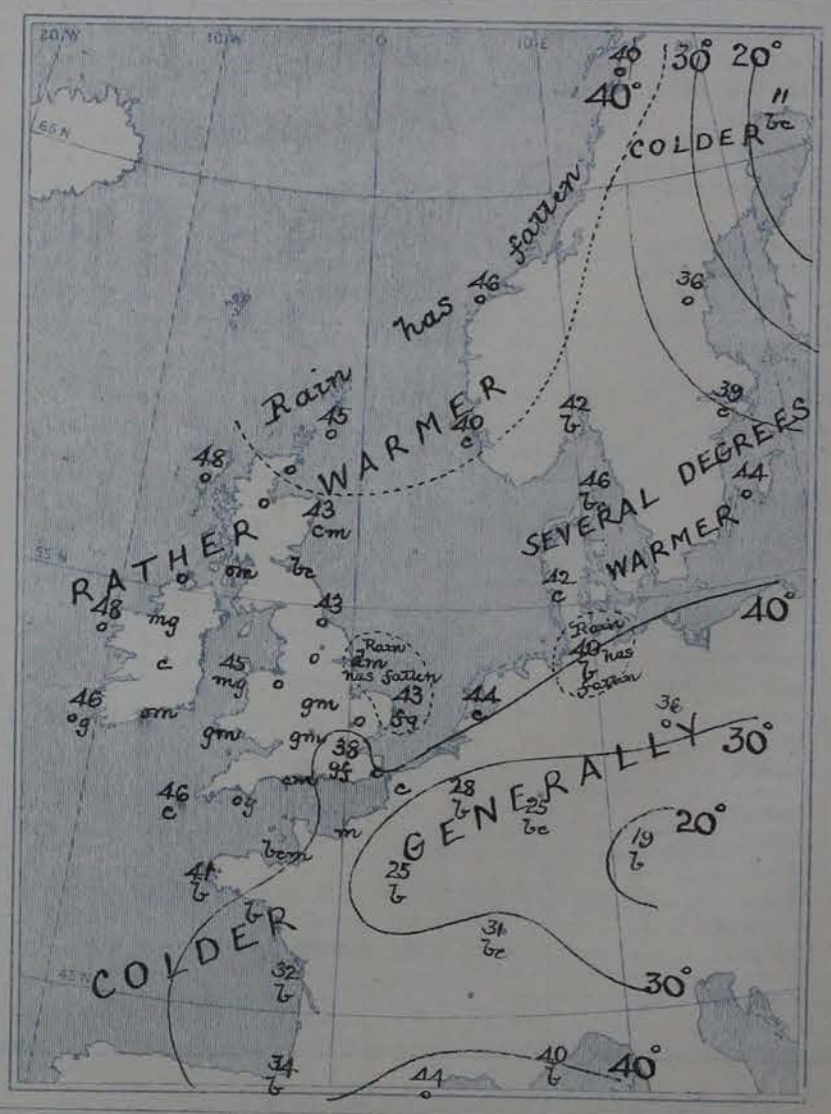
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL (Inches.)
Sumburgh Head	45 · 6	37 · 8	42 · 0	40 · 3	1 · 16
Stornoway	46 · 2	37 · 0	41 · 7	40 · 7	4 · 70
Wick	46 · 1	36 · 1	41 · 4	39 · 8	2 · 93
Nairn	45 · 3	35 · 7	39 · 8	38 · 2	2 · 29
Aberdeen	46 · 2	36 · 5	40 · 5	38 · 7	3 · 14
Leith	48 · 1	37 · 0	41 · 7	40 · 0	2 · 20
Shields	47 · 3	37 · 9	42 · 1	40 · 5	2 · 61
Spurn Head	46 · 8	40 · 2	43 · 2	41 · 9	2 · 40
York	47 · 5	36 · 4	40 · 6	39 · 3	2 · 19
Loughborough	48 · 0	36 · 6	40 · 5	39 · 3	2 · 24
Ardrossan	47 · 8	39 · 1	43 · 1	41 · 3	3 · 88
Mullaghmore	49 · 6	41 · 2	45 · 4	43 · 1	4 · 48
Donaghadee	48 · 3	39 · 2	43 · 2	42 · 0	3 · 20
Holyhead	49 · 7	42 · 9	45 · 8	44 · 0	3 · 88
Liverpool	47 · 8	39 · 6	42 · 5	40 · 7	2 · 96
Parsonstown	49 · 1	37 · 1	41 · 9	40 · 2	2 · 83
Valencia	52 · 3	43 · 0	47 · 4	45 · 5	5 · 42
Roche's Point	51 · 1	42 · 0	46 · 1	44 · 5	4 · 62
Pembroke	50 · 1	43 · 8	46 · 9	45 · 1	4 · 04
Scilly	52 · 4	46 · 7	50 · 0	48 · 0	3 · 72
Prawle Point	51 · 1	41 · 9	46 · 2	44 · 7	3 · 26
Jersey	51 · 9	41 · 1	47 · 7	45 · 8	4 · 30
Hurst Castle	50 · 6	40 · 6	44 · 9	44 · 0	3 · 05
Dover	49 · 3	40 · 6	44 · 3	42 · 8	3 · 48
LONDON	49 · 3	38 · 0	42 · 2	40 · 8	2 · 23
Oxford	48 · 2	37 · 6	41 · 2	40 · 0	2 · 31
Cambridge	48 · 6	35 · 8	40 · 7	39 · 9	2 · 01
Yarmouth	47 · 5	39 · 0	43 · 1	42 · 0	3 · 06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·5 ins. and more to 30·4 ins. in a high pressure area covering our Islands, Holland, and north of France.
Lowest, about 30·1 ins. over Denmark; 29·9 ins. and less, over the southern parts of Spain and Portugal.
Gradients very slight over our Islands and the North Sea, moderate elsewhere.
Barometer falling all over the United Kingdom, most in the northwest, but risen both over southern and northern Europe.

TEMPERATURE

Highest (1) 52° at Fetlar, (2) 46° to 48° along our extreme west and northwest coasts, 46° at Christiansund.
Lowest, (1) 11°F. at Haparanda, 36° at Hernösand; (2) 19° at Munich, 25° at Wiesbaden and Paris, 28° at Brussels, 29° at Havre, 34° at Biarritz.
In London the value was 38°, at Oxford 40°, and at York 42°.

WIND

Light to moderate from SW. on our extreme northwest coasts, from N. in Sweden, from NE. and E. in the Channel and France, and from E over the Bay of Biscay.
The SW wind seems to be spreading more over us.

WEATHER

Fair but dull or gloomy over the greater part of our Island and Scandinavia, with slight drizzle over our northeastern counties; very fine over France and the Netherlands.
Rain has fallen at all the Norwegian and Danish stations, and locally at Yarmouth.

SEA

Moderate to slight in the north and northeast; slight in the Channel and Bay of Biscay, smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large anticyclone recently observed over our Islands and their neighbourhood continues to move slowly in a southerly direction and is decreasing considerably in intensity. SW^{ly} breezes of little strength are spreading in over our northwestern districts, the NE^{ly} to E^{ly} breezes in the south are dying down, and the sea has become nearly smooth in the Channel. Temperature is rising over the northern parts of the Kingdom, falling, temporarily in the south.

FORECASTS

For the 24 hours ending at NOON on 7th November. 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Southwesterly winds, strong; showery.	6 SCOTLAND WEST	Southwesterly winds, freshening; showery.
1 SCOTLAND EAST	Variable and Southwesterly breezes; dull to fair, milder.	7 ENGLAND N.W.	Southwesterly breezes, light to moderate; fair to showery.
2 ENGLAND N.E.		8 ENGLAND S.W.	Easterly winds, light to Calm, then Southwesterly; weather fair.
3 ENGLAND EAST	Varying light breezes; gloomy, hazy, damp in places, then milder with light Southwesterly winds.	9 IRELAND NORTH	Same as No 0
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as No 6.
5 ENGLAND SOUTH		WARNINGS	None issued at present.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	30·46	45	43	NW	2	7	2
Sumburgh Head	30·49	47	46	W	2	c	2
Stornoway	30·55	48	48	SW	3	o	3
Aberdeen	30·60	46	42	SW	1	c	3
Shields	30·61	47	43	NW	2	o	3
Ardrossan	30·66	46	45	2	0	om	0
Malin Head ...	30·64	46	43	SSW	2	9	1
Mullaghmore ...	30·67	47	45	2	0	o	1
Belmullet	30·66	48	46	ENE	1	o	*

	BAR:	THER: D.	THER: W	WIND D.	WIND F.	WEA.	SEA
Holyhead	30·65	53	46	E	1	cg	1
Valencia	30·64	51	47	ENE	1	om	1
Scilly	30·53	51	47	ENE	5	bc	4
Jersey	30·51	49	45	ENE	4	c	3
Dungeness	30·54	46	42	ENE	4	c	3
London	30·60	48	44	ENE	2	cg	*
Yarmouth	30·59	46	44	ENE	3	cdfp	4
Rochefort	30·25	45	41	ENE	5	b	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather cloudy or overcast over the greater part of our Islands and the Continent, with rain in the west of Norway and extreme south of Russia, and snow in Lapland, as well as at Moscow and Kiev. Rain also falling in Algeria, but weather fine and bright over Denmark, Germany, the Netherlands, France, and northern Italy. No important change occurring during day but rain falling in Denmark and the south of Scandinavia.

Temperature highest 60° at Palermo and Malta, 59° at Madrid and Algiers, and 57° at Oran; above 50° over the central and southern parts of the Mediterranean generally, and just reaching that point over the eastern parts of the English Channel. Lowest 14° at Moscow, 16° at Archangel, 22° at Warsaw, and 24° at St Petersburg and Memel; below the freezing point over the greater part of Russia and Central Europe as well as over the central parts of France. Daily maxima below 50° over the greater part of our Islands and France and below 40° at some of the German stations.

Wind strong from the SWrly over the northern part of Scandinavia, light or moderate from the Wly in the south, light from the NWly or Nly over Russia, Germany, Austria, and some parts of Italy. Light to fresh from the Ely or NEly over England, France, and Spain, SE in Ireland; SW or W in Scotland. No important change occurring during day.

Barometer highest 30·7 ins: and upwards, over the Irish Sea, the north of England and the south of Scotland; 30·4 ins: and upwards, in an anticyclone covering the whole of northwestern Europe. Lowest 29·7 ins: and less over the northern parts of Russia and Scandinavia; 29·8 ins: in a small depression lying over Algeria. Slight fall taking place over northwestern Europe during day, but general distribution of pressure remaining unaltered.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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DAILY WEATHER REPORT.

for Saturday, 7th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30·05	32	SW	2	0	29·75	− ·51	36	35	+ 25	SW	2	c	*	?	7	.
	Hernösand ...	30·22	34	Z	0	c	30·01	− ·25	32	31	− 4	SSW	2	b	*	36	30	0·08
	Stockholm ...	30·38	35	Z	0	0	30·25	+ ·03	35	33	− 4	SW	2	b	*	39	34	-
	Wisby	30·41	32	NE	4	b	30·37	+ ·21	37	35	− 7	SW	4	0	*	45	30	.
	Bodö	29·94	46	SSW	4	r	29·55	− ·56	46	45	+ 6	NSW	8	r	5	48	36	0·12
	Christiansund	30·16	?	SSW	3	c	29·95	− ·33	45	43	− 1	NSW	6	r	4	48	43	0·16
	Skudesnaes ...	30·35	46	Z	0	bc	30·25	− ·13	48	45	+ 8	SW	4	0	3	48	39	0·16
	Christiania Fjord (Færder)	30·35	45	S	2	b	30·22	− ·08	41	40	− 1	SW	3	b	2	45	39	-
	Skagen (The Scaw)	30·32	42	S	1	b	30·28	·00	39	39	− 7	NSW	2	f	0	46	36	.
	Fanö	30·41	37	ENE	1	b	30·39	+ ·03	40	40	− 2	ENE	1	c	*	50	34	0·08
BRITISH ISLANDS.	Sumburgh Head	30·20	48	W	4	0	30·18	− ·16	45	43	0	W	2	bc	3	49	42	0·11
	Stornoway ...	30·21	49	SW	5	r	30·25	− ·09	39	39	− 9	SW	2	bc	3	50	37	0·07
	Wick	30·27	47	S	1	0	30·25	− ·15	40	38	− 6	S	1	bc	1	47	36	-
	Nairn	30·29	43	SW	1	b	30·28	− ·13	40	39	− 6	SW	1	bc	1	48	38	0·01
	Aberdeen ...	30·37	45	SSW	2	0	30·33	− ·14	42	41	− 1	WNW	2	bc	1	48	42	0·06
	Leith	30·41	46	SW	2	0	30·35	− ·14	46	45	+ 2	NSW	1	bcm	*	48	43	-
	Shields	30·45	46	WNW	2	0	30·36	− ·11	44	42	+ 1	NSW	2	m	2	46	39	-
	Spurn Head ...	30·45	46	NW	2	0	30·40	− ·06	46	44	+ 1	WNW	1	f	3	47	43	-
	York	30·47	45	N	4	0	30·42	− ·08	43	42	+ 1	WNW	1	0	*	46	39	-
	Loughborough	30·46	42	WNW	1	0	30·42	− ·07	40	39	− 1	Z	0	ogf	*	44	40	-
	Ardrossan ...	30·51	48	SW	1	0	30·35	− ·15	48	48	+ 5	Z	0	cm	0	49	42	0·14
	Malin Head ...	30·38	47	SW	3	om	30·35	− ·12	45	44	+ 1	S	2	c	1	48	44	0·08
	Mullaghmore ...	30·44	48	SSW	4	omg	30·38	− ·11	46	45	− 1	SSW	1	0	2	48	41	0·04
	Belmullet ...	30·43	50	NSW	3	0	30·37	− ·10	42	42	− 6	S	1	b	*	50	37	0·08
	Donaghadee ...	30·46	44	SW	2	bc	30·40	− ·14	45	45	+ 1	SW	2	c	0	47	42	-
	Liverpool (Bidston)	30·49	45	WNW	1	0	30·44	− ·09	43	40	− 1	S	1	0	2	47	42	0·01
	Holyhead ...	30·47	46	Z	0	ogm	30·42	− ·11	47	45	+ 2	SSW	1	cgm	1	48	43	0·01
	Parsonstown ...	30·48	44	Z	0	d	30·42	− ·13	43	41	+ 1	Z	0	0	*	47	40	-
	Valencia	30·51	47	SE	1	og	30·44	− ·10	47	45	+ 1	WNW	1	cm	2	50	44	-
	Roche's Point ...	30·50	47	N	1	m	30·46	− ·10	42	40	− 4	N	1	bc	2	48	38	-
	Pembroke (St. Ann's Hd.)	30·50	44	NNE	1	0	30·44	− ·11	45	44	+ 2	E	2	og	1	45	42	0·01
	Scilly	30·45	45	NE	3	0	30·41	− ·09	45	41	− 1	NE	1	c	1	47	41	-
	Prawle Point ...	30·48	42	NE	2	0	30·42	− ·10	42	40	+ 1	NNE	3	ogm	1	46	39	-
	Jersey (St. Aubin's)	30·43	46	NNE	3	bc	30·41	− ·11	44	40	+ 4	E	3	cgm	3	50	37	-
	Hurst Castle ...	30·49	41	NNE	2	mg	30·43	− ·09	42	42	+ 1	ENE	2	om	1	47	41	-
	Dungeness ...	30·42	47	NNE	3	0	30·40	− ·08	40	40	0	N	2	fp	1	48	36	0·03
	London	30·47	45	Z	0	og	30·43	− ·08	41	40	+ 3	Z	0	fg	*	46	38	-
	Oxford	30·49	41	NNW	1	0	30·46	− ·07	40	39	0	Z	0	ogm	*	43	40	-
	Cambridge ...	30·47	44	N	1	0	30·44	− ·07	41	41	0	SW	1	0	*	47	39	-
	Yarmouth ...	30·43	46	Z	0	d	30·41	− ·05	42	41	− 1	NNW	2	cm	2	48	40	0·02
GERMANY & HOLLAND.	Cuxhaven ...	30·42	41	Z	0	m	30·44	+ ·06	34	33	− 6	Z	0	f	*	46	34	-
	Berlin	30·43	35	NW	2	0	30·49	+ ·08	35	35	− 1	Z	0	f	*	36	34	0·04
	Wiesbaden ...	*	*	*	*	*	30·39	− ·08	30	28	+ 5	Z	0	b	*	39	25	-
	Munich	30·35	22	NE	5	b	30·26	− ·13	20	19	+ 1	NE	3	b	*	32	16	-
	The Helder ...	30·45	45	NNW	1	b	30·45	− ·01	33	32	− 11	S	1	f	1	46	32	-
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·43	− ·06	28	27	0	Z	0	bc	*	40	28	-
	Cape Gris Nez	30·40	42	ENE	2	c	30·37	− ·08	41	39	+ 4	Z	0	c	0	46	37	-
	Paris	30·40	30	NNE	2	b	30·38	− ·06	24	23	− 1	N	1	b	*	42	24	-
	Brest	?	41	ENE	2	b	?	?	40	40	− 1	E	1	c	2	52	39	-
	Lorient	30·36	43	NE	3	b	30·34	− ·05	35	32	− 2	NE	3	b	2	45	34	-
	Rochefort ...	30·26	40	ENE	4	b	30·26	− ·04	30	28	− 2	NE	4	b	*	46	25	-
	Belfort	?	29	NE	3	b	?	?	28	?	− 3	NE	3	b	*	39	23	-
	Lyons	30·32	32	NNW	1	b	30·29		25	24		NE	1	b	*	40	24	-
	Nice	30·16	43	E	1	b	30·13	− ·06	39	35	− 1	E	1	b	3	52	37	-
	Perpignan ...	30·19	44	Z	0	bc	30·18	− ·05	40	39	− 4	N	2	bc	*	53	39	-
	Biarritz	30·22	47	Z	0	b	30·21	·00	42	40	+ 8	E	3	0	1	52	34	-
PENINSULA.	Corunna	*	*	*	*	*	†30·21	+ ·02	52	46	− 1	WSW	7	b	3	55	45	.
	Lisbon	29·98	56	NNE	5	b	30·03	+ ·13	51	48	− 1	NNE	5	b	2	59	50	-

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Saturday, 7th Nov., 1891.

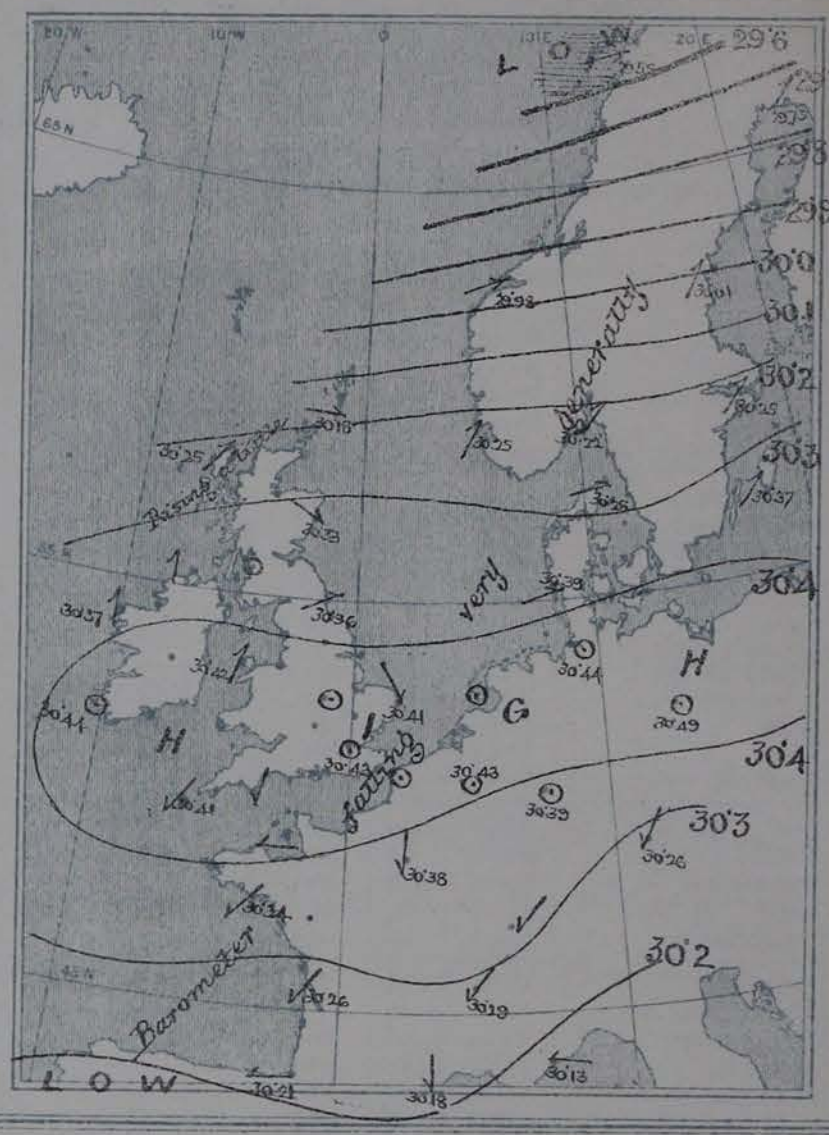
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

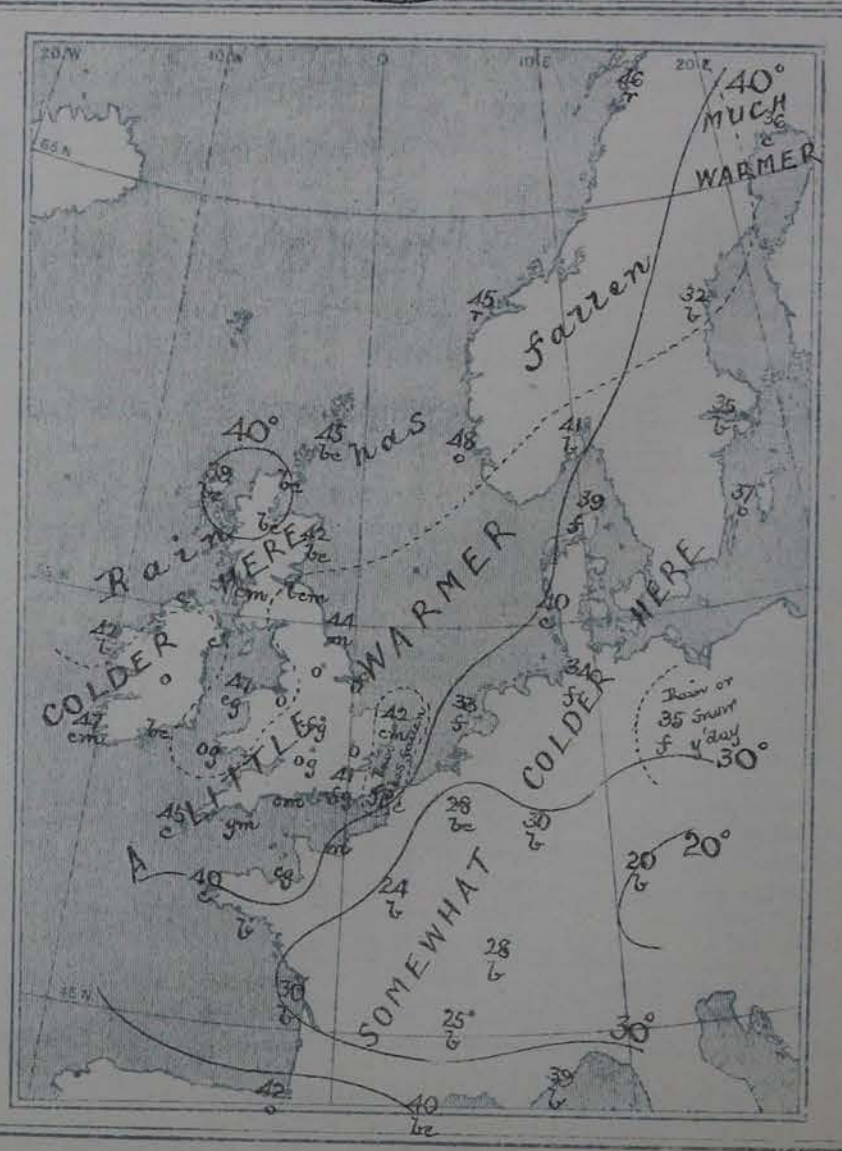
STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·819
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	4·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	45·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·11
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·4 ins and more to 30·3 ins in a high pressure area covering the greater part of the British Islands, the North Sea, France, and Germany.
Lowest, 29·6 ins: and less, over Lapland and about 30·0 ins: in the south of Spain.
Gradients slight except in the far north.
Barometer inclined to rise again over Scotland, falling slightly at the western and southern stations.

TEMPERATURE

Highest, 51° at Pulow, and 45° to 48° on the west coasts both of the British Isles and Norway.
Lowest, (1) 20° at Munich, 24° at Paris, 25° at Lyons, 30° at Wiesbaden and Rothefort, (2) 32° at Hernosand, 35° at Stockholm, 39° at Stornoway, 40° at Aarau.
In London the reading is 41°, and the thermometer has not been below 38° all night.

WIND

SW and W at the Scandinavian stations, blowing a strong breeze at Christiansund and a fresh gale at Bodö.
In our Islands the wind is very light — mainly W to SW in Scotland, S and Variable in Ireland, NE on the Channel coasts.
Over the Bay of Biscay it is light to moderate from the E^ly.

WEATHER

Still fine and bright over France and (after some showers) has cleared up over Ireland and Scotland.
Over England it is dark and gloomy, but, as a whole, dry.

SEA

Smooth except off the northwest coast of Norway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

During the past 24 hours the barometer has been falling over nearly the whole of western and northwestern Europe but the change has been much greater over Scandinavia than elsewhere. Strong winds from the W^ly have again set in on the Norwegian coast, while anticyclonic airs and calms prevail over the British Isles, and NE breezes still further to the southward. Temperature has changed little and irregularly, but is inclined to fall in the north.

FORECASTS

For the 24 hours ending at NOON on 8th November. 1891.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Very light winds; fair, cold tonight.
1 SCOTLAND EAST	Westerly airs and Calms; fair, cold, hazy at times.
2 ENGLAND N.E.	
3 ENGLAND EAST	Calms and Varying airs; dry, foggy or hazy. Cold tonight.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as No 0
7 ENGLAND N.W.	Same as Nos 3 to 5.
8 ENGLAND S.W.	
9 IRELAND NORTH	SE airs and light breezes; fine.
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	30·37	48	44	ESE	1	c	2
Sumburgh Head	30·27	47	46	W	3	r	3
Stornoway	30·27	50	49	SW	4	c	4
Aberdeen	30·40	48	43	SW	2	o	2
Shields	30·44	46	44	WNW	2	o	3
Ardrossan	30·44	49	46	SW	1	o	1
Malin Head ...	30·42	45	44	S	3	bc	1
Mullaghmore ...	30·46	47	45	S	4	om	2
Belmullet	30·46	50	47	WSW	3	o	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	30·49	47	44	SSW	1	omg	1
Valencia	30·52	50	46	SE	2	om	2
Scilly	30·47	46	41	ENE	3	bcm	3
Jersey	30·44	50	44	ENE	3	bc	3
Dungeness	30·34	47	43	NNE	4	o	2
London	30·47	46	43	Z	0	ogm	*
Yarmouth	30·42	48	45	NNW	2	bcr	3
Rochefort	30·21	46	40	ENE	4	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather dull gloomy and misty over the greater part of the United Kingdom, as well as at some of the Scandinavian, German, and Russian stations; rain falling at Riga and snow at Moscow. Fine in most other parts of Europe, but dull in Algeria and central Spain with rain at Nemours and Madrid. Rain falling during day in Norway and the north and northwest of our Islands as well as at one or two of our eastern and southeastern stations.

Temperature highest 67° at Malta, 64° at Tunis, 63° at Algiers, and 60° at Hyères; above 50° at most of the Mediterranean stations and also on the coasts of the Iberian Peninsula, but below 45° over the Riviera and northern Italy. Lowest 6° at Archangel, 8° at Uleaborg, and Kharkov, 10° at Kuopio, 11° at Haparanda, and 12° at Kiev; considerably below the freezing point over the whole of Russia and central Europe. Daily maxima below 50° in nearly all part of the United Kingdom, and below 40° at some of the German stations; thermometer exceeding 50° in the south of France and reaching 59° at Hyères.

Wind light from the SWerly over the northern parts of the United Kingdom and the west of Norway, moderate from the Nerly over Finland and Sweden, light from W. over North Germany and Central Russia. Light from the NEerly over France and the extreme south of our Islands; moderate to strong from the same quarter over southern Europe and the Mediterranean, with a gale at Barcelona. No important change occurring during day.

Barometer highest 30·5 ins. and upwards over the greater part of England and Ireland and also over Bohemia and Silesia; 30·2 ins. and upwards over nearly the whole of Europe. Lowest, 29·7 ins. and less, in a depression lying over Central Russia, 29·8 ins. and less, in another system lying over Morocco and Algeria. Large disturbance passing along in an easterly direction to the northward of our Islands during day, and barometer falling somewhat decidedly on our extreme northern coasts.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Sunday 8th November. 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.48	39	W	2	b	29.66	− .09	31	31	− 5	WNW	4	c	*	39	32	—
	Hernösand ...	29.91	37	S	2	b	29.93	− .08	39	36	+ 7	W	2	bc	*	45	32	—
	Stockholm ...	30.08	41	W	2	b	30.09	− .16	38	37	+ 3	SW	2	bc	*	45	34	—
	Wisby	30.20	45	NNW	6	b	30.19	− .18	45	42	+ 8	WSW	4	b	*	45	28	—
	Bodö	29.53	44	WSW	7	b	29.68	+ .13	39	38	− 7	SW	4	r	2	46	37	0.13
	Christiansund	29.95	44	WSW	9	r	29.86	− .12	45	42	0	WSW	3	c	5	45	43	0.43
	Skudesnaes ...	30.21	46	NW	1	b	30.06	− .19	49	46	+ 1	S	6	o	4	?	46	0.12
	Christiania Fjord (Færder)	30.18	47	WSW	5	bc	30.12	− .10	45	42	+ 4	WSW	3	c	2	48	41	—
	Skagen (The Scaw)	30.22	41	WSW	3	o	30.17	− .11	39	39	0	WSW	4	f	2	46	34	—
	Fanö	30.34	43	S	4	c	30.26	− .13	38	37	− 2	SSE	4	o	*	48	37	0.16
BRITISH ISLANDS.	Sumburgh Head	30.09	45	WSW	2	c	29.70	− .48	48	47	+ 3	S	3	o	4	49	45	0.04
	Stornoway ...	30.06	47	SW	4	c	29.53	− .72	47	47	+ 8	SW	8	r	6	50	32	0.01
	Wick	30.12	45	Z	0	c	29.70	− .55	47	43	+ 7	S	5	c	2	48	37	—
	Nairn	30.12	47	SW	1	c	29.73	− .55	49	41	+ 7	SW	4	c	c	51	36	—
	Aberdeen ...	30.23	42	SW	1	bc	29.87	− .46	45	43	+ 3	S	5	cq	4	50	42	—
	Leith	30.25	49	WSW	1	m	29.94	− .41	45	44	− 1	WSW	1	o	*	52	43	—
	Shields	30.31	48	WSW	2	c	30.06	− .30	37	35	− 7	SSW	3	bm	2	49	34	—
	Spurn Head ...	30.33	45	WSW	2	f	30.14	− .26	42	38	− 4	S	1	b	1	48	38	—
	York	30.44	45	SW	1	o	30.10	− .32	31	31	+ 1	S	1	b	*	48	39	—
	Loughborough	30.35	40	WNW	1	c	30.15	− .27	27	?	− 3	Z	0	f	*	48	25	—
	Ardrossan ...	30.25	49	SW	2	o	29.88	− .47	49	47	+ 1	SW	4	o	4	53	45	—
	Malin Head ...	30.19	45	SSW	3	o	29.69	− .66	44	41	− 1	S	6	ow	4	49	41	—
	Mullaghmore ...	30.21	49	SSW	4	o	29.74	− .64	46	43	0	SSE	7	og	6	51	44	0.01
	Belmullet ...	30.20	49	SW	3	o	29.66	− .71	48	47	+ 6	SSW	10	o	*	50	39	0.05
	Donaghadee ...	30.28	46	SW	1	bc	29.92	− .48	46	44	+ 1	SSE	4	c	2	50	44	—
	Liverpool (Bidston)	30.35	44	NE	1	o	30.08	− .36	36	35	− 7	? SSE	3	o	3	47	33	0.02
	Holyhead ...	30.32	47	S	1	o	30.01	− .41	47	44	0	SSW	4	omg	3	50	43	0.07
	Parsonstown ...	30.29	45	Z	0	c	29.89	− .53	44	42	+ 1	SE	1	o	*	50	39	—
	Valencia	30.29	50	S	4	o	29.87	− .57	49	48	+ 2	SSW	7	rw	6	53	45	0.04
	Roche's Point ...	30.34	45	W	1	bc	29.97	− .49	50	46	+ 8	SW	5	o	4	53	40	—
	Pembroke (St. Ann's Hd.)	30.36	46	E	2	o	30.06	− .38	49	47	+ 4	SSW	4	cg	3	49	44	—
	Scilly	30.31	45	NE	2	c	30.09	− .32	49	44	+ 4	SSW	4	bc	2	49	40	—
	Prawle Point ...	30.35	42	ENE	1	o	30.14	− .28	47	44	+ 5	SSE	2	og	2	47	41	0.07
	Jersey (St. Aubin's)	30.33	46	ENE	2	c	30.17	− .24	35	34	− 9	ESE.	2	bmm	2	52	33	—
	Hurst Castle ...	30.36	45	NNE	1	m	30.18	− .25	36	36	− 6	ENE	1	fw	0	47	34	—
	Dungeness ...	30.33	45	E	4	bc	30.15	− .25	41	41	+ 1	E	4	o	2	48	35	—
	London	30.37	46	NNE	1	c	30.18	− .25	34	33	− 7	Z	0	fw	*	49	33	—
	Oxford	30.37	37	NW	1	o	30.19	− .27	31	31	− 9	Z	0	f	*	45	30	—
	Cambridge ...	30.38	43	N	1	o	30.17	− .27	30	30	− 11	SSW	1	f	*	49	28	—
	Yarmouth ...	30.35	47	NNE	1	c	30.17	− .24	43	41	+ 1	ESE	3	c	3	48	40	—
GERMANY & HOLLAND.	Cuxhaven ...	30.43	39	S	1	o	30.32	− .12	33	32	− 1	SE	3	o	*	40	32	—
	Berlin	30.47	34	SE	2	o	30.35	− .14	31	30	− 4	NNE	3	o	*	36	30	—
	Wiesbaden ...	*	*	*	*	*	30.20	− .19	27	26	− 3	N	2	b	*	41	30	—
	Munich	30.19	24	NE	2	b	30.14	− .12	21	21	+ 1	W	3	bc	*	36	18	—
	The Helder ...	30.39	39	ESE	1	b	30.23	− .22	34	33	+ 1	E	1	f	1	45	33	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30.19	− .24	27	27	− 1	ENE	1	f	*	40	27	—
	Cape Gris Nez	30.31	40	ENE	2	bc	30.17	− .20	32	32	− 9	E	3	m	1	46	30	—
	Paris	30.28	32	NNE	1	b	30.14	− .24	24	24	0	N	1	f	*	43	23	—
	Brest	?	44	ENE	1	o	?	?	45	44	+ 5	S	2	o	3	46	39	—
	Lorient	30.28	46	ENE	3	b	30.15	− .19	38	36	+ 3	ENE	1	b	2	46	34	—
	Rochefort ...	30.22	38	E	3	b	30.17	− .09	30	29	0	E	3	b	2	46	? 26	—
	Belfort	?	26	NE	3	b	?	?	23	18	− 5	NE	1	b	*	36	16	—
	Lyons														*			
	Nice	30.12	44	S	1	b	30.19	+ .06	40	35	+ 1	E	1	b	3	52	37	—
	Perpignan ...	30.15	45	Z	0	b	30.18	.00	36	36	− 6	SW	1	bc	*	55	35	—
	Biarritz	30.20	49	NW	3	bc	30.12	− .09	39	36	− 3	ESE	3	m	1	52	36	—
PENINSULA.	Corunna	*	*	*	*	*	30.10	− .11	46	43	− 6	S	2	b	3	55	34	—
	Lisbon	30.02	58	NNE	4	b	30.05	+ .02	51	48	0	NNE	4	b	3	61	51	—

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Sunday, 8th Nov: 1891.

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BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

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= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
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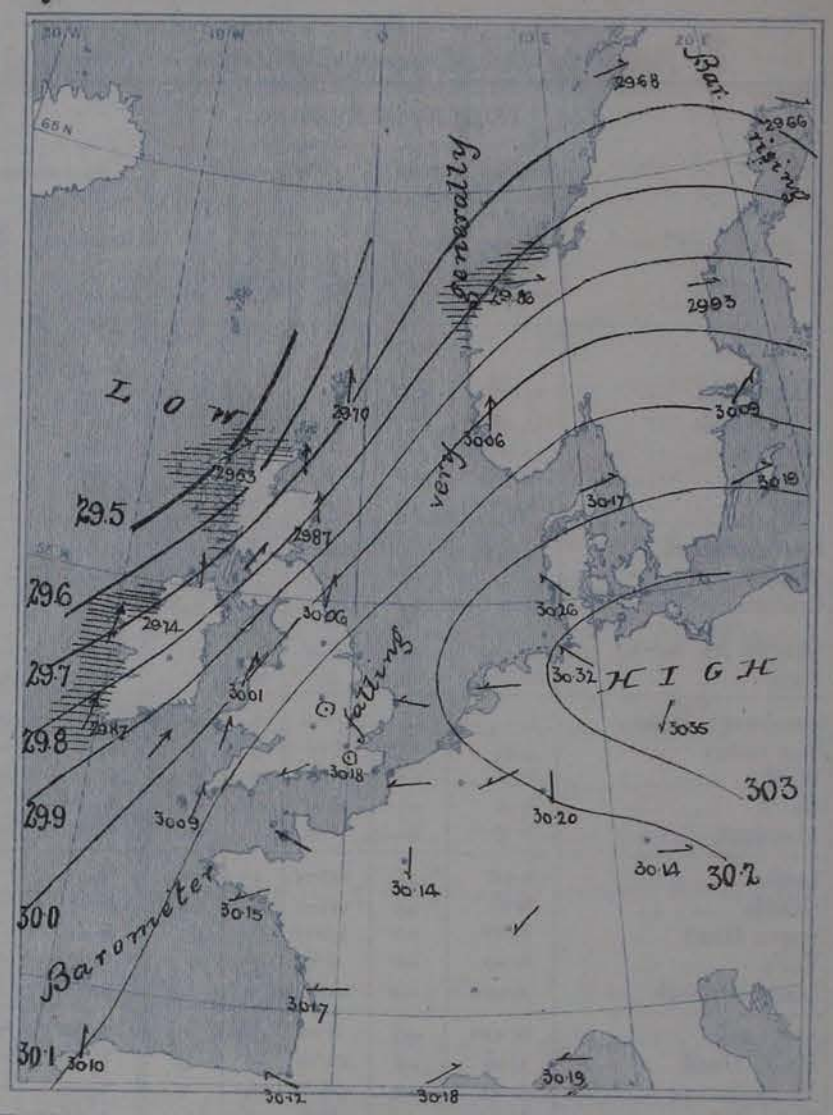

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at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

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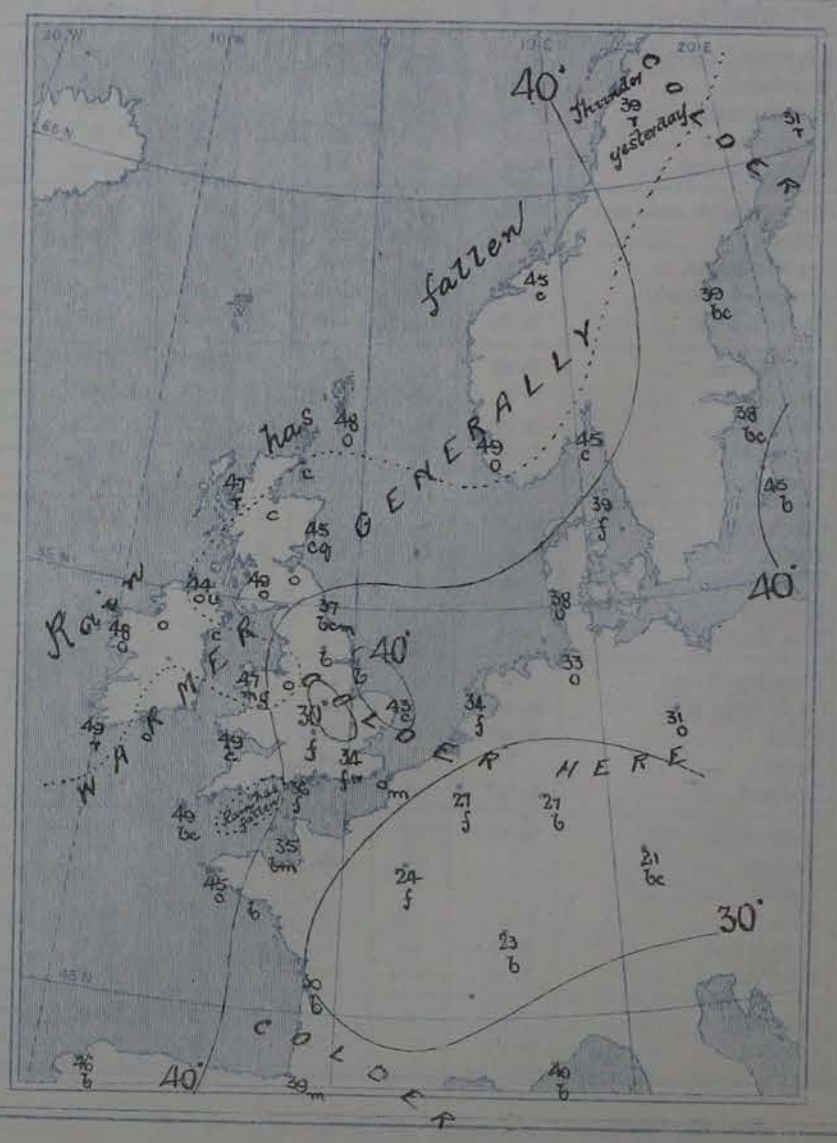
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·911
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	1·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	46·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·4	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·3	37·6	41·2	40·0	2·31
Cambridge	48·3	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 ins: and more to 30·1 ins: in an anticyclone stretching out from the eastward over Germany, France, and the southeastern parts of England & the North Sea.
Lowest, 29·5 ins: and less, in a large low pressure system lying off the northwest of Scotland and spreading southeastwards.
Gradients rather steep over Ireland and Scotland, moderate to slight elsewhere.
Barometer falling decidedly – rapidly in the north and west.

TEMPERATURE

Highest, 51° at Lisbon, 50° at Rochefort, 49° at Scilly, Shetlands and Valencia Island, 48° at Belmullet and Sumburgh, 11th, 45° at Christiansund.
Lowest, (1) 23° at Munich, 24° at Paris, 27° at Brussels and Wiesbaden; (2) 27° at Loughborough, 30° at Cambridge, 31° at Oxford and York; (3) 29° at Thorshavn, 30° at Haparanda.
It has been as low as 25° at Loughborough, 28° at Cambridge and 33° in London during the night.

WIND

Still E and light on our southeast coasts, Calm over our midland counties.
S to SSW in the west and north of our Islands, and blowing a strong gale at the extreme northwestern stations.
Varying E airs prevalent over France and SW winds over Scandinavia.

WEATHER

Fine at the French and Spanish stations, foggy over central England and the Netherlands, cloudy and unsettled in Ireland and Scotland with rain in several places.
The unsettled weather apparently spreading southeastwards.

SEA

Very rough in extreme west and northwest and rising on our other western and northern coasts, smooth in the Channel and on our east coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVAILENT

FORECASTS

For the 24 hours ending at NOON on 9th Novr 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
⚑ 0 SCOTLAND NORTH	None issued.	⚑ 6 SCOTLAND WEST	None issued.
⚑ 1 SCOTLAND EAST		⚑ 7 ENGLAND N.W.	
2 ENGLAND N.E.		⚑ 8 ENGLAND S.W.	
3 ENGLAND EAST		⚑ 9 IRELAND NORTH	
4 MIDLAND COUNTIES		⚑ 10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	The SOUTH CONE was hoisted last evening or this morning on all our western and northern Coasts.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	30·21	48	45	WNW	2	c	3
Sumburgh Head	30·15	47	45	WSW	2	c	3
Stornoway	30·17	47	46	SW	3	c	3
Aberdeen	30·28	49	44	SSW	1	bc	1
Shields	30·32	49	44	WSW	2	o	2
Ardrossan	30·30	50	48	SW	2	om	2
Malin Head ...	30·27	48	46	SSW	3	c	2
Mullaghmore ...	30·26	50	47	SSW	3	c	2
Belmullet	30·28	50	48	SW	2	c	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	30·37	46	45	SW	1	mdg	1
Valencia	30·35	51	49	SSE	2	cm	3
Scilly	30·35	48	48	ENE	3	c	0
Jersey	30·36	50	49	ENE	3	c	3
Dungeness	30·36	47	47	SE	3	c	2
London	30·38	49	46	N	1	omg	*
Yarmouth	30·37	48	46	NNE	3	c	3
Rochefort	30·29	43	37	NE	4	b	?

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather fine and bright at many of the Irish and Scotch stations, as well as over Sweden, France, Spain, and northern Italy. Dull elsewhere; with a good deal of fog over England, the Netherlands, and North Germany, with rain in the west of Norway, and with snow at Nicolaieff. Slight rain setting in over the western parts of Ireland and Scotland at night, thunderstorms and heavy rain occurring in Algeria.

Temperature highest 66° at Malta, 62° at Algiers, 61° at Tunis, and 58° at Palermo and La Calle; above 50° over the central and southern parts of the Mediterranean generally, and very little below that point on the west coasts of our Island and Norway. Lowest 7° at Kharkov, 8° at Kiev, 16° at St Petersburg, 18° at Vienna and 19° at Archangel; below the freezing point over France, South Germany, Austria and nearly the whole of Russia. Daily maxima very little above 50° in any part of the United Kingdom, and below 40° at some of the German stations. Thermometer exceeding 60° over Algeria and the southern parts of Spain and Italy, the highest reading of all being 79° at Sanguinaire and Sagbout.

Wind SW over the northern parts of our Islands and the Continent; light or moderate in force generally, but strong to a gale in the west of Norway. Light or moderate from the NE^ly or E^ly over France, Spain Italy, and the extreme south of of our Islands; variable over Denmark, Germany, and Austria. Considerable increase of wind from the S^ly and SW^ly taking place at night on our extreme west and northwest coasts.

Barometer highest 30·5 ins: and upwards, over Bohemia and Galicia; 30·3 ins: and upwards, in a large anticyclone covering all the more central parts of the Continent, and embracing nearly the whole of the United Kingdom. Lowest, 29·6 ins: in a depression lying off the northwest of Norway, 29·8 ins: in a shallow disturbance lying to the southward of Italy; 30·1 ins: and less, in a still shallower area over Portugal. New disturbance advancing later from the Atlantic to the north of our Islands, and barometer falling briskly over Ireland and Scotland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Monday, 9th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.85	31	SW	2	b	29.81	+ .15	36	35	+ 5	SW	4	o	*	37	28	-
	Hernösand ...	29.93	30	Z	0	b	29.86	- .07	39	38	0	SSW	2	b	*	45	29	0.20
	Stockholm ...	30.10	39	Z	0	b	30.05	- .04	39	37	+ 1	SW	2	o	*	43	37	-
	Wisby	30.21	44	S	4	b	30.09	- .12	37	36	- 8	SSE	4	b	*	48	37	-
	Bodö	29.58	48	SW	6	o	29.53	- .15	48	42	+ 9	SW	4	c	2	48	37	0.04
	Christiansund	29.64	46	ESE	3	o	29.50	- .36	42	39	- 3	ESE	2	b	5	46	41	-
	Skudesnaes ...	29.87	48	S	8	o	29.63	- .43	42	39	- 7	SE	8	o	6	50	41	0.08
	Christiania Fjord (Færder)	30.00	46	WSW	4	r	29.87	- .25	41	39	- 4	SSE	5	o	3	48	41	-
	Skagen (The Scaw)	29.97	41	S	4	o	29.82	- .35	42	39	+ 3	SSE	6	o	3	43	37	-
	Fanö	29.99	33	SE	4	b	29.76	- .50	29	29	- 9	SE	4	f	*	38	28	-
BRITISH ISLANDS.	Sumburgh Head	29.42	47	S	5	o	29.14	- .56	46	45	- 2	S	4	c	6	49	44	0.16
	Stornoway ...	29.26	47	SW	7	r	29.06	- .47	44	44	- 3	SW	5	r	5	48	32	0.43
	Wick	29.41	49	S	6	o	29.16	- .54	45	44	- 2	S	3	bc	2	49	42	-
	Nairn	29.39	48	SW	4	c	29.16	- .57	44	42	- 3	SW	1	c	1	48	36	0.02
	Aberdeen ...	29.60	46	SSE	8	ogu	29.29	- .58	41	39	- 4	SSW	3	bc	5	47	41	0.24
	Leith	29.64	46	WSW	4	o	29.33	- .61	44	42	- 1	SW	2	bc	*	48	40	0.04
	Shields	29.79	43	SSW	3	c	29.41	- .65	42	41	+ 5	SSW	4	p	2	45	34	-
	Spurn Head ...	29.89	42	SSE	4	b	29.51	- .63	42	41	0	SSE	6	o	5	48	37	0.04
	York	29.87	41	S	2	bc	29.45	- .65	41	41	+ 10	S	1	r	*	45	30	0.28
	Loughborough	29.88	38	NW	1	b	29.49	- .66	43	42	+ 16	SSW	5	cq	*	49	24	0.12
	Ardrossan ...	29.54	47	S	7	r	29.31	- .57	47	45	- 2	SSW	5	c	4	50	45	0.48
	Malin Head ...	29.41	47	S	5	ogp	29.25	- .44	43	41	- 1	SSW	4	bcp	4	47	42	0.11
	Mullaghmore ...	29.47	46	WSW	6	gp	29.31	- .43	43	41	- 3	SW	5	cg	5	49	40	0.18
	Belmullet ...	29.43	46	WSW	4	o	29.30	- .36	45	43	- 3	WSW	3	o	*	49	42	0.39
	Donaghadee ...	29.57	47	SSW	5	r	29.38	- .54	38	38	- 8	SSW	4	b	2	49	34	0.20
	Liverpool (Bidston)	29.79	42	SSE	4	o	29.45	- .63	42	41	+ 6	SW	1	bc	2	49	36	0.10
	Holyhead ...	29.75	50	SSW	6	omqg	29.45	- .56	45	43	- 2	WSW	2	bc	3	50	42	0.96
	Parsonstown ...	29.54	47	SW	1	o	29.42	- .47	39	38	- 5	SW	1	c	*	48	37	0.16
	Valencia	29.62	46	WNW	4	og	29.44	- .43	44	43	- 5	NW	3	op	3	51	41	0.45
	Roche's Point ...	29.63	49	SSW	7	r	29.48	- .49	45	43	- 5	WSW	2	bc	4	52	41	0.65
	Pembroke (St. Ann's Hd.)	29.75	50	SSW	5	c	29.51	- .55	47	46	- 2	SW	4	cqp	4	51	46	0.49
	Scilly	29.83	49	SSW	5	c	29.58	- .51	49	46	0	W	4	c	4	51	44	0.10
	Prawle Point ...	29.92	44	SSW	4	r	29.58	- .56	45	45	- 2	W	2	cq	3	50	43	0.15
	Jersey (St. Aubin's)	30.00	43	SE	2	cq	29.70	- .47	47	45	+ 12	SSE	5	cpqm	4	50	35	0.03
	Hurst Castle ...	29.95	46	SSW	2	c	29.58	- .60	50	50	+ 14	SSW	7	qr	3	50	35	0.08
	Dungeness ...	29.97	40	Z	0	c	29.68	- .37	45	43	+ 4	SSW	5	o	3	47	39	-
	London	29.93	41	SW	2	bcm	29.61	- .52	44	44	+ 10	S	4	o	*	46	34	-
	Oxford	29.90	37	Z	0	bc	29.57	- .62	44	43	+ 13	SSW	1	r	*	45	30	0.12
	Cambridge ...	29.96	40	SW	1	b	29.59	- .58	42	40	+ 12	S	2	r	*	45	29	0.03
	Yarmouth ...	29.96	43	Z	0	cm	29.66	- .51	42	41	- 1	SSW	4	cq	4	44	35	-
GERMANY & HOLLAND.	Cuxhaven ...	30.11	35	SSE	4	bc	29.89	- .43	31	29	- 2	SSW	3	f	*	37	29	-
	Berlin	30.10	34	SE	2	b	29.96	- .39	29	28	- 2	S	3	bc	*	37	28	-
	Wiesbaden ...	*	*	*	*	*	30.01	- .19	22	21	- 5	N	1	o	*	36	21	-
	Munich	30.08	26	S	3	b	30.07	- .07	26	25	+ 5	S	4	b	*	36	21	-
	The Helder ...	29.99	33	S	1	f	29.78	- .45	34	33	0	S	3	f	2	36	32	-
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.80	- .31	27	26	0	SSE	4	b	*	30	24	-
	Cape Gris Nez	30.00	38	S	2	m	29.77	- .40	32	31	0	S	4	m	4	37	30	-
	Paris	30.06	29	NNE	2	o	29.94	- .20	22	22	- 2	S	2	b	*	36	19	-
	Brest	?	48	SW	3	o	?	?	52	51	+ 7	SSW	5	r	5	?	43	0.16
	Lorient	30.00	43	SW	1	c	29.73	- .42	52	48	+ 14	SW	4	r	4	?	37	-
	Rochefort ...	30.10	35	Z	0	b	29.89	- .28	37	36	+ 7	SE	4	o	*	48	30	-
	Belfort	?	26	W	1	b	?	?	23	?	0	W	1	b	*	41	16	-
	Lyons	30.10	41	SSW	2	b	30.08		35	33		S	1	b	*	46	33	-
	Nice	30.16	43	SW	1	b	30.12	- .07	37	34	- 3	E	1	b	2	52	36	-
	Perpignan ...	30.13	46	Z	0	o	30.08	- .10	35	34	- 1	SW	1	b	*	52	34	-
	Biarritz	30.05	48	E	3	b	30.01	- .11	50	42	+ 11	SSW	3	b	1	54	39	-
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	30.09	57	NNW	3	b	30.15	+ .10	53	50	+ 2	Z	0	c	2	63	51	-

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Monday, 9th Novr. 1891.

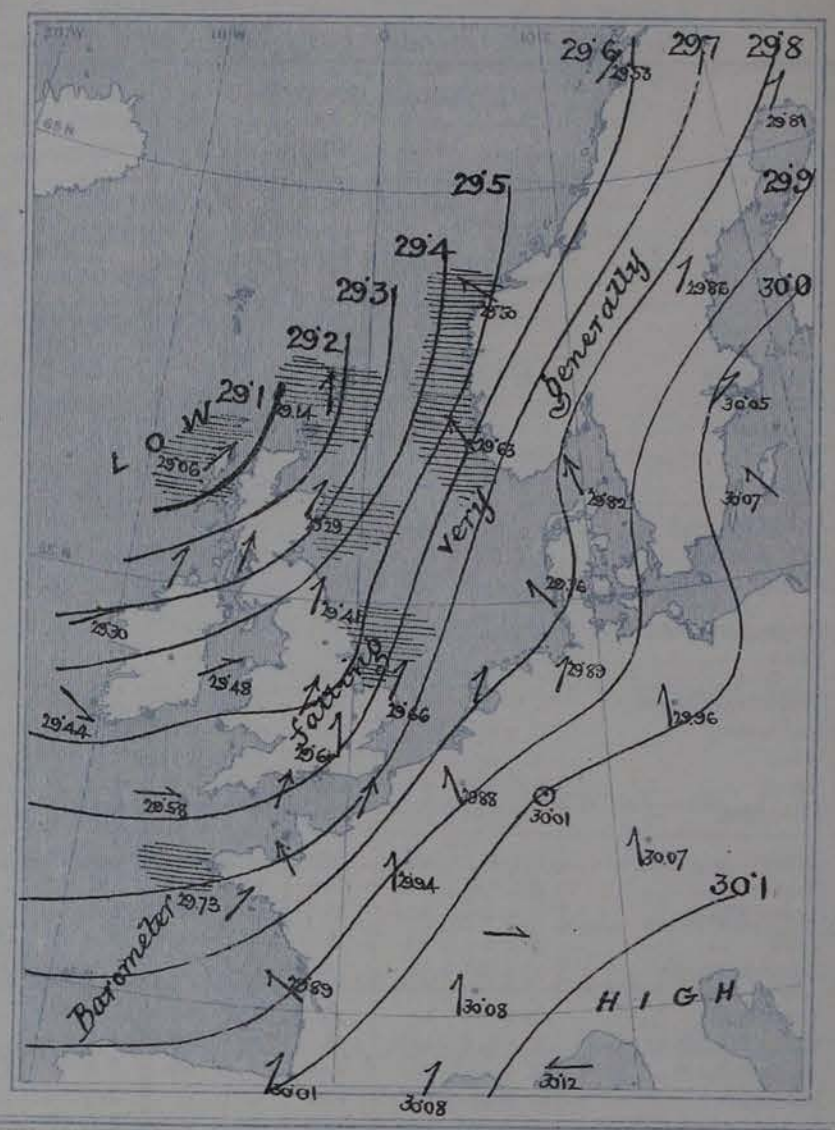
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch.
Changes since previous morning are stated in words.

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus:
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

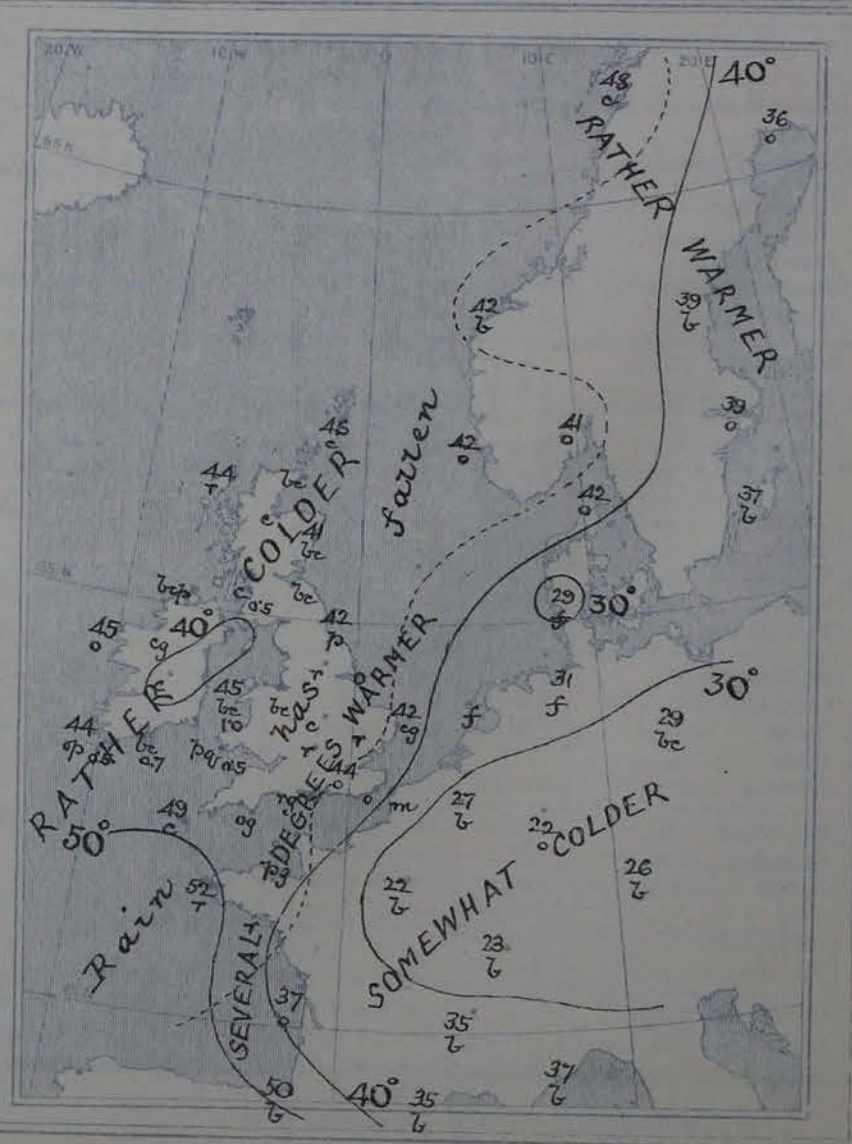
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·819
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·854
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·894
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 A.M. Dry.	Wet.	RAINFALL (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	4·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	46·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·11
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·0	39·3	2·19
Loughborough	48·0	38·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·02
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	46·8	4·30
Hurst Castle	50·5	40·0	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·9	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·1 ins: and more to 30·0 ins: over the southeast of France, Germany and the Baltic.
Lowest, 29·1 ins: and less off the northwest of Scotland.
Gradients moderate to rather steep.
Barometer still falling generally, most in the east and south.

TEMPERATURE

Highest, 53° at Lisbon, 50° at Biarritz, 49° at Sicily, 48° at Bordeaux, and 43° to 47° on the Irish and western English coasts.
Lowest, 22° at Paris and Wiesbaden, 23° at Belfort, 26° at Munich, and 29° at Berlin.
In London the reading was 44°.

WIND

S^{3} to SW^{3} over almost the whole of the British Isles and the neighbourhood and moderate to fresh in force.
At Valencia Island, however, it is NW^{3} while on the eastern shores of the North Sea it is SE^{3}.
The gales of Sunday have died down.

WEATHER

Dull, showery, and very unsettled all over the United Kingdom, foggy in the Netherlands, fine and bright over Germany and the east and south of France.
Rainfall has occurred at nearly all our obs stations, and in the west the fall has been considerable (1·96 ins: at Holyhead).

SEA

Still rough in the north, moderate as a whole elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure system which reached our western coasts early on Sunday morning is moving northeastwards slowly, but is spreading out in an easterly and southerly direction so decidedly that its gradients are decreasing, the S^{3} and W^{2} winds are becoming general, but are decreasing in force. Temperature has risen over England, fallen in Ireland and Scotland, and wet unsettled weather is spreading over the country.

FORECASTS

For the 24 hours ending at NOON on 10th November 1891.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Wind mainly Southwesterly, moderate; changeable and very unsettled, showery.
1 SCOTLAND EAST	
2 ENGLAND N.E.	
3 ENGLAND EAST	Southerly to Westerly winds, moderate or fresh; changeable, rain at times.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	

DISTRICTS.	FORECASTS.
6 SCOTLAND WEST	Westerly to Southerly breezes, moderate; showery, unsettled.
7 ENGLAND N.W.	
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29.98	50	46	S	7	c	4
Sumburgh Head							
Stornoway	29.34	48	48	SW	10	r	7
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29.48	46	45	S	6	o	4
Mullaghmore ...							
Belmullet	29.52	?49	48	SSW	5	r	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.85	48	46	S	5	omqy	5
Valencia							
Scilly							
Jersey	30.06	49	42	SE	3	b	3
Dungeness	30.00	43	40	E	0	bc	1
London							*
Yarmouth							
Rochefort	30.13	46	41	E	1	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather dull in the west and north of our Islands with rain at Stornoway and Valencia Island; rainy also in the north of Scandinavia. Fine in most other parts of Europe but foggy over Central England as well as over Denmark, the Netherlands and some parts of France and Germany. Sky clearing later over England, but rain falling in all the more western and northern parts of our Islands, - heavily in places.

Temperature highest 65° at Malta, 64° at La Calle, 63° at Algiers, 60° at Palermo, and 58° at Oran, above 50° over the central and southern parts of the Mediterranean generally and just reaching that point in the south of Ireland. Lowest 8° at Kharkov, 10° at Kiev and Nicolaieff, 15° at Odessa, and 22° at Moscow and Buda Pesth, below the freezing point in most parts of Russia and central Europe as well as over the inland parts of England. Daily maxima reaching 50° or a little above at some of our own western and southern stations but thermometer remaining below 40° over the Netherlands, Germany and central France.

Wind S. or SW. in the west and north of our Islands, with a gale in the Hebrides and west of Ireland, light or moderate from the W. over Scandinavia and northern Russia. Light from the E. or NE. over France, Spain, Italy and the extreme southeast of England; variable in Germany and Austria; E. or SE. in Algeria. S. or SW. winds extending later to all parts of the United Kingdom and blowing with the force of a gale at several of the Irish and Scotch stations.

Barometer highest 30.6 ins. and upwards over the south of Russia, 30.1 ins. and upwards in a large anticyclone covering all but the extreme north and northwestern parts of Europe. Lowest 29.5 ins. and less in a depression lying to the northwestward of Scotland; 29.6 ins. and less in another area lying over the White Sea. Depression to NW. of our Islands subsequently spreading out in our E. and SE. direction and barometer falling briskly in all parts of the Kingdom.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD.

FROM THE 1ST TO 7TH NOV. 1891.

During the week the weather over the United Kingdom has been dry, quiet and somewhat cold. A high-pressure area of considerable intensity has been lying over us, so that on Sunday, Monday and again on Thursday readings of 30.7 ins. and more were recorded over the northern half of the Kingdom. The wind has been anticyclonic - mainly E. at the southern stations, and sharp night frosts have occurred on several occasions, especially over the inland district.

At the close of the week the anticyclone was giving way and moving in a southeasterly direction, SW. winds were spreading over the northwestern parts of the Kingdom, and were increasing in strength with rising temperatures and rainy weather, but cold quiet foggy conditions still hold in the south and east.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Tuesday 10th November. 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 3 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.82	37	SW	4	0	29.89	+.02	32	37	+1	SW	2	7	*	37	32	—
	Hernösand ...	29.87	36	S	6	0	29.80	−.06	39	35	0	SSW	4	c	*	43	25	—
	Stockholm ...	29.87	32	SE	4	0	29.84	−.21	41	37	+2	SSE	4	0	*	45	36	—
	Wisby	29.97	41	S	4	0	29.86	−.21	38	36	+1	SSE	4	bc	*	41	34	—
	Bodö	29.53	37	E	0	6	29.47	−.06	37	33	−11	E	2	c	0	48	32	—
	Christiansund	29.41	44	NNE	4	c	29.30	−.20	39	37	−3	ESE	3	6	4	45	39	—
	Skudesnaes ...	29.42	42	NE	7	0	29.32	−.31	42	40	0	NE	7	7	5	43	41	0.04
	Christiania Fjord (Færder)	29.64	38	SSE	5	0	29.58	−.29	40	38	−1	ESE	5	m	4	41	38	—
	Skagen (The Scaw)	29.61	41	S	6	0	29.45	−.33	42	40	0	SSE	6	0	4	43	37	—
	Fanö	29.59	32	SE	6	6	29.37	−.37	36	36	+7	SE	5	c	*	36	28	0.04
BRITISH ISLANDS.	Sumburgh Head	29.12	45	SSW	1	7	29.08	−.06	44	43	−2	SSW	1	6	4	48	42	0.10
	Stornoway ...	29.06	42	SW	3	6	29.09	+.03	40	39	−4	W	3	c	3	48	35	0.12
	Wick	29.18	42	W	1	bc	29.10	−.06	39	38	−6	W	2	6	1	47	37	—
	Nairn	29.14	41	SW	1	c	29.15	−.01	38	36	−6	SW	2	6	2	48	32	—
	Aberdeen ...	29.20	42	SW	2	c	29.22	−.07	40	37	−1	SW	3	bcw	3	47	37	—
	Leith	29.24	45	SW	2	bc	29.25	−.04	40	39	−4	WSW	3	bc	*	49	37	—
	Shields	29.30	44	SSW	2	cm	29.34	−.07	39	38	−3	SW	2	c	2	46	36	0.02
	Spurn Head ...	29.37	44	SW	4	c	29.47	−.04	39	38	−3	WSW	5	6	4	47	38	—
	York	29.34	44	S	1	bc	29.33	+.10	39	38	−2	S	1	6	*	46	35	0.09
	Loughborough	29.37	40	SSW	1	c	29.30	+.01	38	37	−5	WSW	3	6	*	49	37	—
	Ardrossan ...	29.22	47	SSE	3	6	29.31	0.0	44	42	−3	SW	4	bcfp	3	48	41	0.04
	Malin Head ...	29.18	43	SSW	5	bcfp	29.29	+.02	41	39	−2	SW	5	6 fp	4	45	40	0.11
	Mullaghmore ...	29.24	42	SW	5	cfp	29.34	+.03	39	38	−4	SW	4	0 g	4	46	39	0.10
	Belmullet ...	29.21	44	WSW	5	c	29.33	+.03	44	42	−1	WSW	1	6	*	47	40	0.13
	Donaghadee ...	29.29	40	SSW	2	c	29.38	0.0	35	35	−3	SSW	3	bc	2	46	32	—
	Liverpool (Bidston)	29.35	43	S	2	0	29.47	+.02	41	39	−1	SW	3	bc	4	48	40	0.13
	Holyhead ...	29.32	46	WSW	3	cg	29.46	+.01	44	41	−1	WSW	4	c	4	51	43	—
	Parsonstown ...	29.33	40	W	0	c	29.44	+.02	36	35	−3	W	0	0	*	45	35	0.06
	Valencia	29.44	44	WNW	4	cqfpbr	29.44	0.0	46	44	+2	SSW	2	0 fp	3	48	40	0.28
	Roche's Point ...	29.43	43	WNW	3	6	29.48	0.0	43	41	−2	W	1	c	3	47	39	—
	Pembroke (St. Ann's Hd.)	29.35	47	SW	4	7	29.54	+.03	49	47	+2	WSW	4	cqfp	4	50	44	0.24
	Scilly	29.44	48	WNW	7	bcq	29.61	+.03	49	46	0	SW	4	cq	5	50	46	0.08
	Prawle Point ...	29.43	48	W	5	0	29.65	+.07	48	44	+3	W	5	c	4	53	44	0.11
	Jersey (St. Aubin's)	29.56	50	WSW	4	bcfpm	29.73	+.03	49	46	+2	SW	5	cfpq	4	51	46	0.44
	Hurst Castle ...	29.47	47	WSW	4	6	29.62	+.04	47	45	−3	W	5	bc	2	50	45	0.58
GERMANY & HOLLAND.	Dungeness ...	29.41	48	SW	6	7	29.63	−.05	46	43	+1	WNW	4	6	3	49	41	0.37
	London	29.45	43	WSW	2	bc	29.62	+.01	40	38	−4	WSW	2	6 cw	*	48	37	0.36
	Oxford	29.41	41	SW	1	0	29.60	+.03	38	37	−6	SW	1	6m	*	48	38	0.14
	Cambridge ...	29.35	40	S	1	c	29.50	0.0	38	37	−4	SW	1	6	*	47	35	0.06
	Yarmouth ...	29.40	45	SSW	2	07	29.51	−.15	40	39	−2	W	3	6m	2	46	38	0.20
	Cuxhaven ...	29.77	40	SSW	4	bc	29.50	−.27	42	41	+11	SW	3	c	*	42	?	0.08
	Berlin	29.51	32	SE	3	6	29.77	−.19	35	34	+6	SE	3	0	*	37	29	0.04
	Wiesbaden ...	*	*	*	*	*	29.73	−.28	37	37	+15	W	0	7	*	37	?	0.04
	Munich	29.55	30	SE	5	6	29.51	−.16	35	31	+9	SW	2	0	*	45	26	—
	The Helder ...	29.51	37	S	3	7	29.50	−.28	43	42	+9	SW	1	c	2	46	34	0.24
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.65	−.23	43	41	+16	WSW	5	0	*	45	?	0.12
	Cape Gris Nez	29.46	40	S	6	7	29.50	−.18	46	43	+14	W	7	6	7	?	?	0.37
	Paris	29.68	45	S	4	0	29.80	−.14	38	37	+16	SW	2	6	*	46	?	0.12
	Brest	29.63	45	W	4	0	29.76	?	50	46	−2	W	4	c	5	52	45	0.28
	Lorient	29.63	51	W	4	0	29.77	+.04	51	46	−1	WSW	2	0	5	54	48	0.20
	Rochefort ...	29.80	51	W	6	7	29.88	−.01	46	45	+9	SSW	2	0	*	54	41	0.32
	Belfort														*			
	Lyons	29.96	48	S	2	0	29.99	−.09	45	43	+10	SSW	1	07	*	54	?	0.16
	Nice	30.06	44	E	2	6	29.99	−.13	45	42	+8	S	1	c	1	52	37	—
	Perpignan ...	30.01	43	N	0	6	30.02	−.06	40	39	+5	SW	1	c	*	55	?	—
	Biarritz	29.94	59	S	3	0	29.95	−.06	53	51	+5	S	2	0	5	63	50	—
PENINSULA.	Corunna	*	*	*	*	*	30.11	−.04	59	59	+4	SSW	2	f	4	61	53	0.16
	Lisbon	30.13	57	SSW	4	7												

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Tuesday, 10th Nov.r, 1891.

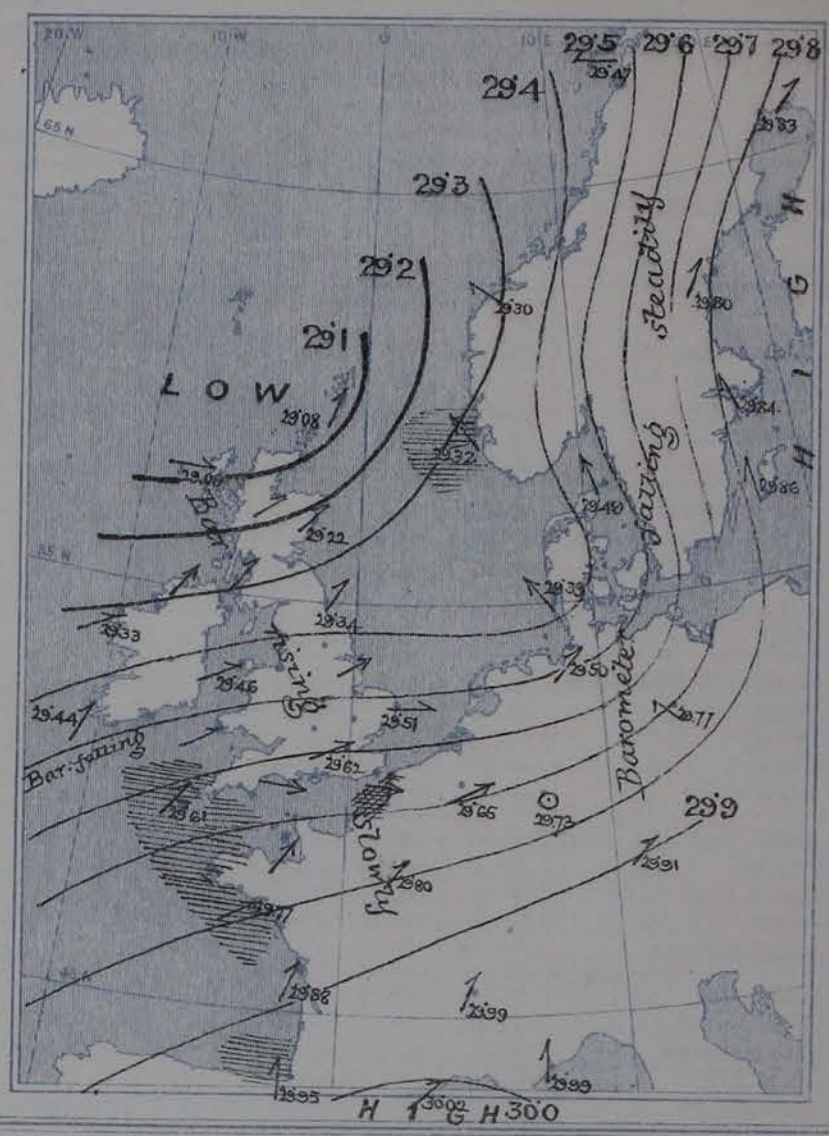
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—*Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

WIND—*Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus*—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE—*Where considerable, is shewn thus:*
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8·0 a.m. for the month of November During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—*Isotherms are drawn for each 10°. Changes since previous morning are stated in words.*

WEATHER *is shewn by Letters of the Beaufort Scale.*

RAINFALL—*A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.*

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	4·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	45·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·6	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·1 in. and upwards, over the southern parts of the Spanish Peninsula; 29·8 in. and upwards in Sweden.
Lowest, 29·1 in. and less, in a depression lying off the north of Scotland.
Gradients moderate or slight generally. Barometer rising in most parts of our Islands and France, but falling again at Valencia Island.

TEMPERATURE

Highest, 57° at Lisbon, 55° at Biarritz, 51° at Lorient, and 49° at Pembroke, Scilly, and Jersey.
Lowest, 35° at Donaghadee, Belfast and Munich, 36° at Fair Isle and Nairnstown, and 37° at Bodo, Haparanda, and Wiesbaden.
The maxima recorded over our Islands yesterday were below 50° at all but the extreme southern stations.

WIND

Light or moderate from the SW.ly over the greater part of the United Kingdom and France, but W. in the southeast of England.
Strong from the SE.ly on the eastern shores of the North Sea; moderate from the S. in Sweden.

WEATHER

Fine over the more northern and eastern parts of the United Kingdom, but dull and showery on our extreme west and southwest coasts.
Cloudy or overcast at most of the Continental stations, with rain at Skudesnaes and Wiesbaden.
Rain fell yesterday in most parts of Western Europe, the largest amounts being 0·6 in. at Hurst Castle, and 0·4 in. at Prawle Point, Dungeness, C. Gris Nez, and in London.
Lightning was seen at Prawle Point last night.

SEA

Moderate to smooth generally, but high at C. Gris Nez and rather rough at the mouth of the Channel and on the north coasts of France.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which is approaching our western coasts is at present too far away to enable us to judge of its size or depth. Unsettled rainy weather is, however, likely to spread eastwards over the Kingdom.

FORECASTS

For the 24 hours ending at NOON on 11th November 1891.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	SW. winds, light, to S., fresh; fine to unsettled and some rain.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	Same as No. 5.
5 ENGLAND SOUTH	W. to SW. or S. winds, freshening; fine to unsettled and some rain.
6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W.	SW. to S. winds, freshening; fair to dull and rainy.
9 IRELAND NORTH 10 IRELAND SOUTH	S. winds, increasing in force; dull, rainy.
WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...							
Sumburgh Head	29.14	47	46	SSW	3	o	6
Stornoway	29.08	46	45	SW	3	c	4
Aberdeen	29.23	46	43	S	2	bc	5
Shields	29.33	46	44	SSW	2	c	2
Ardrossan	29.25	48	44	SW	2	o	2
Malin Head ...	29.21	44	42	SSW	4	cp	4
Muliaghmore ...	29.26	46	43	SW	5	o p	5
Belmullet	29.27	45	44	WNW	3	bc	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.37	49	44	SW	3	c	3
Valencia	29.41	48	45	WNW	4	bcp	4
Scilly	29.47	47	46	W	6	r	5
Jersey	29.53	50	49	W	5	or	4
Dungeness	29.49	46	46	SW	6	r	4
London	29.46	48	47	S	2	of r	*
Yarmouth	29.50	46	45	SW	5	og	4
Rochefort	29.83	51	50	SW	5	r	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over France, Germany, foggy over Austria the Netherland, and Ireland, cloudy or overcast elsewhere; raining in many parts of the British Islands, and unsettled over northwestern Europe generally. considerable rain over the south and southeast of England later, and smaller quantities in many other parts of Western Europe, hail at Mullaghmore and Jersey, lightning in some places.

Temperature rising decidedly over southeastern Europe and in England, but as a whole changing fitfully, morning readings all below 60° in Europe and below 50° except on some of the southern and western coasts. below 30° over most inland countries, and as low as (1) 18° at Hermanstadt and Nicolaiff, 19° at Kemberg, 21° at Kiev; (2) 22° at Paris and Wiesbaden, 23° at Helfut, 27° at Brussels; (3) 13° at Archangel, 27° at St Petersburg and Kuopio, 30° at Ulleborg; (4) 38° at Valentia, 39° at Valentia. Continuing to change fitfully during day. Maxima scarcely exceeding 50° on the south coast of England.

Wind light and anticyclonic over Russia and southeastern Europe, mainly SW to SE (cyclonic) over the northwestern countries, but NW at Valencia Island. Gales of Sunday all died down. Veering to W and in the south of our Island and north of France later, but continuing SE on the eastern shores of the North Sea.

Barometer highest 30·4 ins. and more to 30·2 ins. over southeastern Europe generally, 30·2 ins. to 30·0 ins. over the southern half of Spain, lowest 29·1 ins. and less off the extreme northwest of Scotland. Gradients rather steep over the British Isles and somewhat irregular. Local disturbances passing across England later.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS:—*For* Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Wednesday, 11th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.86	37	S	4	0	29.94	+.11	35	34	-2	S	6	c	*	37	34	-
	Hernösand ...	29.79	42	S	6	0	29.81	+.01	42	41	+3	S	6	r	*	42	32	-
	Stockholm ...	29.79	41	SE	4	0	29.82	-.02	41	39	0	NNE	2	r	*	45	39	-
	Wisby	29.82	42	SSE	4	0	29.82	-.04	40	39	+2	SSE	4	0	*	43	34	0.12
	Bodö	29.55	37	SE	2	b	29.57	+.10	43	41	+6	SE	2	bc	1	?	37	-
	Christiansund	29.38	44	ESE	3	c	29.47	+.17	42	37	+3	ESE	4	b	3	45	39	-
	Skudesnaes ...	29.43	45	ESE	5	r	29.38	+.06	46	42	+4	ESE	6	0	4	?	42	0.20
	Christiania Fjord (Færder)	29.51	42	W	2	r	29.58	.00	45	44	+5	ESE	5	0	3	?	39	0.35
	Skagen (The Scaw)	29.56	43	SW	4	b	29.57	+.08	44	43	+2	SSW	4	0	2	45	37	0.16
	Fanö	29.57	42	Z	0	c	29.49	+.10	35	35	-1	SE	5	c	*	46	34	0.35
BRITISH ISLANDS.	Sumburgh Head	29.20	43	W	1	c	29.10	+.02	45	44	+1	SE	5	0	6	46	43	0.08
	Stornoway ...	29.13	37	Z	0	b	28.84	-.25	43	43	+3	SE	4	r	4	44	31	0.30
	Wick	29.20	45	S	3	b	28.94	-.16	46	45	+7	S	7	0u	4	47	37	-
	Nairn	29.21	36	W	1	bc	28.84	-.31	42	41	+4	E	2	0	2	46	34	0.02
	Aberdeen ...	29.30	40	SW	3	bc	28.89	-.35	45	43	+5	SE	9	0qru	7	46	39	0.13
	Leith	29.32	42	SSW	2	b	28.69	-.60	45	44	+5	ENE	5	r	*	47	37	0.13
	Shields	29.40	44	W	1	m	28.63	-.71	48	48	+9	SE	8	r	5	48	?36	0.62
	Spurn Head ...	29.47	44	SSE	4	c	28.56	-.91	49	48	+10	SE	9	0	6	49	?41	0.20
	York	29.46	43	S	2	0	28.53	-1.02	48	48	+9	S	3	r	*	48	36	0.50
	Loughborough	29.45	42	SSE	2	0	28.49	-1.01	51	50	+13	SSE	4	0qp	*	51	38	0.45
	Ardrossan ...	29.27	47	SSE	2	c	28.61	-0.70	44	43	0	NE	3	rm	2	48	40	0.53
	Malin Head ...	29.19	41	S	4	0	28.73	-.54	41	41	0	NNE	3	0qr	2	43	39	0.26
	Mullaghmore ...	29.18	44	S	4	0qp	28.77	-.37	43	41	+4	NW	7	0q	6	45	39	0.14
	Belmullet ...	29.17	42	SSW	3	0p	28.85	-.48	43	40	-1	NNW	5	0	*	46	40	0.12
	Donaghadee ...	29.27	43	SW	2	bc	28.56	-.82	46	45	+11	E	6	r	4	46	34	0.45
	Liverpool (Bidston)	29.37	43	SE	3	c	28.42	-1.05	49	48	+8	ESE	4	0	4	50	41	0.54
	Holyhead ...	29.31	45	SSE	4	cpq	28.38	-1.08	49	49	+5	Z	0	cq	0	50	43	1.03
	Parsonstown ...	29.19	43	Z	0	r	28.76	-0.68	39	38	+3	NW	3	r	*	44	35	0.75
	Valencia	29.07	46	ENE	3	rmq	28.99	-.45	45	41	-1	NNW	7	0q	6	49	42	0.33
	Roche's Point ...	29.10	47	SSE	5	p	28.77	-.71	44	41	+1	NW	8	c	5	50	42	1.10
	Pembroke (St. Ann's Hd.)	29.21	47	SE	6	r	28.36	-1.18	52	51	+3	SW	4	rq	4	54	46	0.70
	Scilly	29.03	51	SE	7	r	28.65	-0.96	45	45	-4	NW	11	r	7	54	44	0.76
	Prawle Point ...	29.39	49	SSE	7	r	28.44	-1.21	52	52	+4	NSW	7	orqu	6	54	48	0.28
	Jersey (St. Aubin's)	29.45	50	SE	6	rqm	28.65	-1.08	55	52	+6	SW	9	orm	7	57	48	0.77
	Hurst Castle ...	29.47	49	SSW	6	r	28.48	-1.14	?56	?56	+9	SSW	10	rq	6	56	45	1.01
	Dungeness ...	29.57	50	SW	4	cqp	28.75	-0.88	54	53	+8	S	8	r	6	54	45	0.25
	London	29.53	46	S	3	op	28.59	-1.03	52	51	+12	S	6	r	*	54	39	0.48
	Oxford	29.38	45	SE	2	r	28.48	-1.12	52	50	+14	SSW	5	ru	*	54	38	0.49
	Cambridge ...	29.52	44	S	1	c	28.59	-1.00	53	52	+15	S	3	r	*	53	36	0.16
	Yarmouth ...	29.56	45	SSW	2	bc	28.75	-0.76	52	50	+12	SSE	8	rqq	6	52	38	0.42
GERMANY & HOLLAND.	Cuxhaven ...	29.59	41	SSW	2	c	29.57	+.07	36	34	-6	SSE	4	c	*	46	35	-
	Berlin	29.81	41	SW	2	0	29.79	+.02	32	31	-3	SE	3	b	*	43	32	0.04
	Wiesbaden ...	*	*	*	*	*	29.57	-.16	37	36	0	Z	0	0	*	48	32	?1.30
	Munich	29.95	32	SW	2	b	29.72	-.19	32	32	-3	NE	3	0	*	45	28	0.08
	The Helder ...	29.54	42	S	1	b	29.14	-.36	42	41	-1	SE	6	r	4	46	39	0.08
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.10	-.55	50	48	+7	SSE	6	0	*	51	39	0.24
	Cape Gris Nez	29.60	46	SW	4	c	28.88	-.71	52	51	+6	S	7	r	6	52	45	0.51
	Paris	29.73	46	SSE	2	0	29.15	-.65	55	51	+17	S	6	c	*	52	38	0.35
	Brest	?	53	S	7	r	?	?	49	49	-1	W	9	f	9	54	45	0.47
	Lorient	29.26	51	S	8	r	28.88	-.89	54	50	+3	W	9	0	9	55	50	0.79
	Rochefort ...	29.64	52	SSE	5	r	29.44	-.44	57	53	+11	W	7	r	*	57	46	0.39
	Belfort	?	39	W	2	c	?	?	38	34		?	2	f	*	51	33	-
	Lyons	29.88	46	S	2	bc	29.59	-.40	54	50	+9	S	6	bc	*	55	44	0.08
	Nice	29.95	48	E	1	bc	29.91	-.08	45	45	0	ENE	4	r	3	57	43	-
	Perpignan ...	29.81	52	Z	0	0	29.68	-.34	45	45	+5	SW	1	c	*	61	40	-
	Biarritz	29.68	63	SW	7	c	29.58	-.37	62	58	+7	NNW	3	0	4	63	55	-
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon																	

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Wednesday, 11th Novr., 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

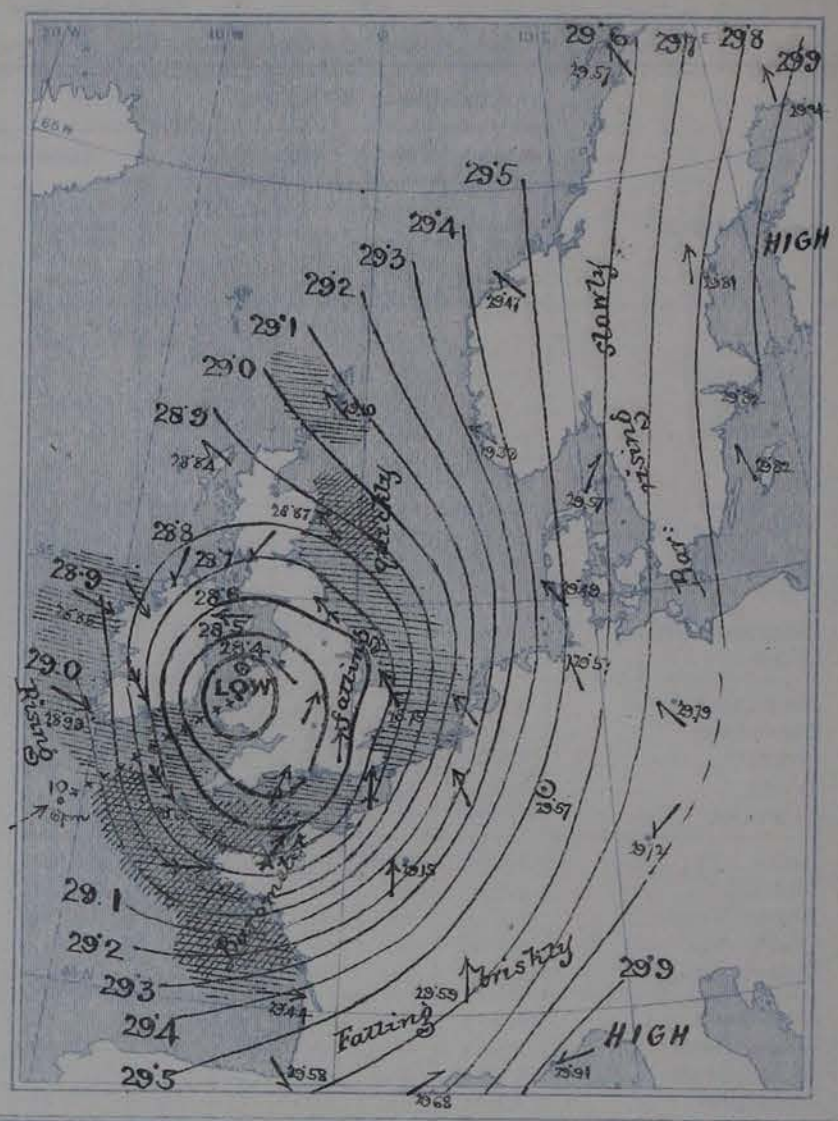
WIND—Arrows shew the prevailing winds. They fly with the wind and their barbs and feathers refer to forces thus—
= forces above 10; = forces 8 to 10,
= forces 5 to 7; = forces 1 to 4.
= dead calm

SEA DISTURBANCE—Where considerable, is shewn thus
= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29 · 683
Stornoway	29 · 699
Wick	29 · 722
Nairn	29 · 738
Aberdeen	29 · 758
Leith	29 · 789
Shields	29 · 813
Spurn Head	29 · 842
York	29 · 846
Loughborough	29 · 877
Ardrossan	29 · 791
Mullaghmore	29 · 780
Donaghadee	29 · 810
Holyhead	29 · 835
Liverpool	29 · 851
Parsonstown	29 · 847
Valencia	29 · 865
Roche's Point	29 · 865
Pembroke	29 · 864
Scilly	29 · 897
Prawle Point	29 · 914
Jersey	29 · 928
Hurst Castle	29 · 902
Dover	29 · 893
LONDON	29 · 898
Oxford	29 · 896
Cambridge	29 · 887
Yarmouth	29 · 865



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are spotted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches.)
Sumburgh Head	45 · 6	37 · 8	42 · 0	40 · 3	1 · 16
Stornoway	49 · 2	37 · 0	41 · 7	40 · 7	4 · 70
Wick	45 · 1	36 · 1	41 · 4	39 · 8	2 · 93
Nairn	45 · 3	35 · 7	39 · 8	38 · 2	2 · 29
Aberdeen	46 · 2	36 · 5	40 · 5	38 · 7	3 · 14
Leith	48 · 1	37 · 0	41 · 7	40 · 0	2 · 20
Shields	47 · 3	37 · 9	42 · 1	40 · 5	2 · 61
Spurn Head	46 · 8	40 · 2	43 · 2	41 · 9	2 · 40
York	47 · 5	36 · 4	40 · 6	39 · 3	2 · 19
Loughborough	48 · 0	36 · 6	40 · 5	39 · 3	2 · 24
Ardrossan	47 · 8	39 · 1	43 · 1	41 · 3	3 · 88
Mullaghmore	49 · 0	41 · 2	45 · 1	43 · 1	4 · 48
Donaghadee	48 · 3	39 · 2	43 · 2	42 · 0	3 · 20
Holyhead	49 · 7	42 · 9	45 · 8	44 · 0	3 · 88
Liverpool	47 · 8	38 · 6	42 · 5	40 · 7	2 · 96
Parsonstown	49 · 1	37 · 1	41 · 9	40 · 2	2 · 83
Valencia	52 · 3	43 · 0	47 · 4	45 · 5	5 · 42
Roche's Point	51 · 1	42 · 6	46 · 1	44 · 5	4 · 62
Pembroke	50 · 1	43 · 8	46 · 9	45 · 1	4 · 04
Scilly	52 · 4	46 · 7	50 · 0	48 · 0	3 · 72
Prawle Point	51 · 1	41 · 9	46 · 2	44 · 7	3 · 20
Jersey	51 · 9	44 · 1	47 · 7	45 · 8	4 · 30
Hurst Castle	50 · 5	40 · 6	44 · 9	44 · 0	3 · 05
Dover	49 · 3	40 · 6	44 · 3	42 · 8	3 · 48
LONDON	49 · 3	38 · 0	42 · 2	40 · 8	2 · 23
Oxford	48 · 2	37 · 6	41 · 2	40 · 0	2 · 31
Cambridge	48 · 6	35 · 8	40 · 7	39 · 9	2 · 01
Yarmouth	47 · 5	39 · 0	43 · 1	42 · 0	3 · 06

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29·9 ins. and upwards, in Sweden, and also in the extreme south of France.
Lowest, 28·4 ins. and less, in a depression the centre of which lies over Wales.
Gradients very steep over France, the Netherlands, the North Sea, the Channel and the southwest of our Islands.
Barometer falling rapidly in the northern and eastern parts of the United Kingdom, but rising again on our southwest coasts.

TEMPERATURE

Highest, 62° at Biarritz, 57° at Rochefort, 55° at Jersey and Paris, and 54° at Bourgeneuf and Lyons.
Lowest, 32° at Berlin and Munich, 35° at Haparanda and Pario, 36° at Gulaven, 37° at Wiesbaden, and 39° at Varnastown.
A considerable rise of temperature has taken place over England during the night.

WIND

Strong to a gale on most of the English, Irish, and French coasts; — from NW. in the southwest of our Islands, from W. over the Bay of Biscay, from SW or S in the Channel and from SE. on our east coasts.
Over Scotland and the eastern shores of the North Sea it is increasing fast from the SE.ly

WEATHER

Raining over the greater part of our Islands, the Netherlands and the west of France, as well as in Sweden.
Fine in the west of Norway, and also over some parts of Germany and Central France.
Very heavy rain has fallen in the west and south of our Islands, the largest amounts being 1·1 ins. at Rocket Point, 1·0 in. at Holyhead, and Aberdaron and 0·8 in. at Varnastown and Scilly.

SEA

Very high at the mouth of the Channel, high at Aberdeen, and rough on almost all other parts of our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression seems likely to take a somewhat more northerly course than hitherto, and the weather in the south will probably improve gradually. A further increase of winds from the E.ly is probable on our northern coasts.

FORECASTS

For the 24 hours ending at NOON on 12th November 1891.

DISTRICTS.	FORECASTS.
↑ 0 SCOTLAND NORTH ↑ 1 SCOTLAND EAST	E.ly and SE.ly gales, moderating later; squally, rainy.
2 ENGLAND N.E.	SE.ly and S.ly gales, moderating later; squally and rainy to fair.
↑ 3 ENGLAND EAST 4 MIDLAND COUNTIES ↑ 5 ENGLAND SOUTH	S.ly to SW.ly gales, moderating later; squally and rainy to fair.
↑ 6 SCOTLAND WEST ↑ 7 ENGLAND N.W.	E.ly winds, shifting to the NW.ward, and increasing to a gale; squally, rainy.
↑ 8 ENGLAND S.W.	W.ly and NW.ly gales, moderating later; squally and rainy to fair.
↑ 9 IRELAND NORTH	Same as No.s 6 and 7.
10 IRELAND SOUTH	NW.ly gales, moderating gradually; squally, showery.
WARNINGS	The South Cone was hoisted yesterday in districts 3. 5. and 8, and the North Cone this morning in districts 0. 1. 6. 7. and 9.

Note.—The **South Cone**, *point downwards* (↑), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29.37	44	40	SE	5	r	4
Sumburgh Head	29.15	43	42	W	1	bc	4
Stornoway	29.13	41	40	SW	4	c	4
Aberdeen	29.30	45	39	SSW	3	b	3
Shields	29.40	45	42	W	2	c	2
Ardrossan	29.32	48	44	SSE	2	c	1
Malin Head ...	29.23	42	40	SSW	4	o	4
Mullaghmore ...	29.26	45	43	S	5	og	4
Belmullet	29.24	45	44	SSW	3	o	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.41	47	43	SW	4	cg	3
Valencia	29.25	48	46	SE	3	op	3
Scilly	29.34	50	50	SE	5	r	6
Jersey	29.59	51	48	SSE	4	or	4
Dungeness	29.62	50	47	SW	4	c	3
London	29.60	51	48	S	2	o	*
Yarmouth	29.57	47	43	NSW	3	b	2
Rochefort	29.81	54	52	SSE	3	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright but not settled over the major part of Great Britain and the north of France, fair as a whole over Russia, most parts of southeastern Europe and on the southern side of the Mediterranean, very dull and unsettled elsewhere, with rain in many localities. Rain later over the whole of our Islands and their neighbourhood — especially heavy over the southwestern and southern districts, where fall ranged between 0·5 ins. and 1·1 ins.

Temperature still changing very fitfully — fallen over the British Islands, risen over France and southeastern Europe. Morning readings 60° and more at Malta and Algiers only; below 50° in most places, below 40° over many parts of our Islands, France, and Sweden, and as low as 21° to 35° over Russia and 25° to 35° over Germany, lowest of all 21° at Kiev and 23° at Archangel. Rising to between 50° and 57° over France and the south of England later.

Wind light and anticyclonic over Russia, Algeria and Spain, light to moderate and variable over the Mediterranean; moderate to fresh from the SW'ly over Great Britain, fresh to a gale from the SE'ly over Scandinavia and Denmark, W'ly over the north of France, backing to S. and SE. on our western and southern coasts later, and increasing greatly in force with rain and a very unsettled appearance.

Barometer highest 30·5 ins. to 30·1 ins. over Russia, 30·2 ins. to 30·0 ins over Algeria, the greater part of Spain and eastern portions of the Mediterranean. Lowest, 29·1 ins. and less, in a depression off the north of Scotland, 29·4 ins. and less, in a "V" shaped secondary over the North Sea and 29·9 ins. and less, in another disturbance to the southeastward of Malta. Falling very fast on our southwestern and southern coasts later, as a deep depression advanced towards the mouth of St George's Channel.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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" Weekly . " " " £1 10 0 "

DAILY WEATHER REPORT.

for Thursday, 12th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.99	35	SW	2	0	29.95	+.01	35	35	0	SSW	4	0	*	37	32	0.08
	Hernösand ...	29.85	41	SSE	6	r	29.73	-.08	41	39	-1	S	6	0	*	42	32	0.32
	Stockholm ...	29.82	41	SE	4	r	29.70	-.12	39	38	-2	SE	6	r	*	43	39	0.16
	Wisby	29.80	41	SSE	4	c	29.72	-.10	40	39	0	SSE	4	r	*	43	37	0.20
	Bodö	29.66	38	E	2	b	29.61	+.04	40	36	-3	E	2	b	0	43	34	-
	Christiansund	29.29	46	ESE	5	bc	29.02	-.45	48	41	+6	ESE	8	c	4	48	42	-
	Skudesnaes ...	28.93	49	S	9	0	28.93	-.45	48	45	+2	S	10	r	6	48	46	0.35
	Christiania Fjord (Færder)	29.41	46	SSE	8	0	29.23	-.35	49	46	+4	SSW	8	0	5	?	43	-
	Skagen (The Scaw)	29.21	45	SE	8	r	29.29	-.28	46	44	+2	SW	8	bc	5	46	43	0.20
	Fanö	29.00	47	SSE	8	0	29.39	-.10	44	42	+9	SSW	6	c	*	48	34	0.16
BRITISH ISLANDS.	Sumburgh Head	28.70	43	SE	7	r	28.48	-.62	47	47	+2	NE	1	r	7	47	43	0.44
	Stornoway ...	28.49	44	E	4	r	28.80	-.04	42	42	-1	SW	5	c	5	44	34	0.90
	Wick	28.43	44	SE	8	r	28.72	-.22	43	41	-3	NW	7	ou	6	49	40	0.85
	Nairn	28.39	45	SW	3	r	28.84	.00	42	38	0	WSW	3	c	2	45	38	0.36
	Aberdeen ...	28.37	49	ESE	8	oqu	28.97	+.10	41	36	-4	SW	6	cq	6	49	41	0.76
	Leith	28.38	44	ENE	5	r	29.07	+.38	40	38	-5	SW	3	bc	*	49	37	0.26
	Shields	28.31	44	W	5	rq	29.20	+.57	40	38	-8	SW	3	bc	3	50	36	0.39
	Spurn Head ...	28.50	44	W	9	r	29.42	+.86	39	37	-10	SSW	5	cq	5	51	39	0.05
	York	28.47	45	W	7	r	29.34	+.81	39	37	-9	SSW	3	b	*	53	37	0.14
	Loughborough	28.83	43	WSW	8	c	29.38	+.89	38	36	-13	SSW	5	cq	*	54	37	0.21
	Ardrossan ...	28.52	45	W	7	r	29.11	+.50	44	42	0	SW	4	c	4	47	40	0.54
	Malin Head ...	28.65	44	NW	5	cqp	29.02	+.29	37	36	-4	S	5	b	4	45	39	0.08
	Mullaghmore ...	28.85	43	WNW	8	chqt	29.03	+.26	41	38	-2	S	4	bc	4	46	36	0.09
	Belmullet ...	28.94	43	WNW	8	oqp	28.96	+.11	39	38	-4	SSE	4	bc	*	45	38	0.11
	Donaghadee ...	28.68	43	NW	4	c	29.16	+.60	34	34	-12	SW	3	b	1	46	30	0.05
	Liverpool (Bidston)	28.77	45	W	9	r	29.31	+.89	39	38	-10	S	3	c	4	51	39	0.42
	Holyhead ...	28.86	45	W	9	cq	29.21	+.83	47	43	-2	SW	5	cqg	5	50	42	0.25
	Parsonstown ...	29.01	41	W	3	b	29.10	+.34	38	36	-1	SE	1	b	*	44	34	-
	Valencia	29.21	43	WSW	5	cqhp	28.93	-.06	49	46	+4	SE	6	0	6	49	39	0.26
	Roche's Point ...	29.19	41	WNW	5	b	29.07	+.30	49	46	+5	SSW	6	b	5	49	38	0.30
	Pembroke (St. Ann's Hd.)	29.07	44	WNW	7	c	29.26	+.90	49	46	-3	S	6	cq	6	52	40	0.90
	Scilly	29.28	48	WNW	8	r	29.23	+.58	50	47	+5	S	6	bc	6	50	41	0.02
	Prawle Point ...	29.40	44	WNW	7	c	29.39	+.95	49	45	-3	S	6	cu	5	52	40	0.06
	Jersey (St. Aubin's)	29.35	49	W	7	bcq	29.54	+.89	47	45	-8	SE	5	cm	5	54	43	0.22
	Hurst Castle ...	29.18	48	W	10	bc	29.49	+1.01	49	47	-7	SW	6	bc	5	58	45	0.54
	Dungeness ...	29.08	48	W	10	cq	29.56	+0.81	48	46	-6	SW	6	bc	5	54	45	0.12
	London	29.08	44	W	5	bc	29.53	+.94	42	40	-10	SSW	3	c	*	53	37	0.66
	Oxford	29.16	43	SW	5	b	29.47	+.99	39	37	-13	SE	4	c	*	54	37	0.21
	Cambridge ...	28.93	44	S	6	0	29.51	+.92	40	37	-13	SW	2	c	*	54	34	0.19
	Yarmouth ...	28.78	45	W	8	oq	29.50	+.75	39	37	-13	SSW	3	b	3	53	36	0.10
GERMANY & HOLLAND.	Cuxhaven ...	29.16	42	SSE	6	bc	29.53	-.04	42	41	+6	SW	4	b	*	50	36	-
	Berlin	29.59	39	S	4	r	29.72	-.07	40	40	+8	S	3	r	*	43	32	0.24
	Wiesbaden ...	*	*	*	*	*	29.75	+.18	41	40	+4	Z	0	0	*	48	37	0.16
	Munich	29.63	38	SW	2	c	29.86	+.14	36	36	+4	NW	4	r	*	43	32	0.08
	The Helder ...	29.01	33	SW	9	r	†29.58	+.46	46	41	+4	SW	3	bc	4	52	43	0.28
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.71	+.61	39	37	-11	SSE	1	b	*	59	36	0.04
	Cape Gris Nez																	
	Paris	29.44	50	SW	4	0	29.74	+.59	35	34	-20	S	2	b	*	61	33	-
	Brest																	
	Lorient	29.50	49	W	5	0	29.50	+.62	51	46	-3	S	4	c	6	59	46	0.04
	Rochefort ...	29.54	51	W	3	0	29.60	+.16	45	43	-12	S	3	c	*	57	43	0.08
	Belfort	*	39	W	2	r	?	?	38	34	0	W	2	0	*	54	36	0.28
	Lyons	29.63	51	WNW	2	r	29.85	+.26	40	39	-14	SE	1	b	*	60	40	1.58
	Nice																	
	Perpignan ...														*			
	Biarritz	29.66	55	NW	3	r												
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon																	

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Thursday, 12th Novr. 1891.

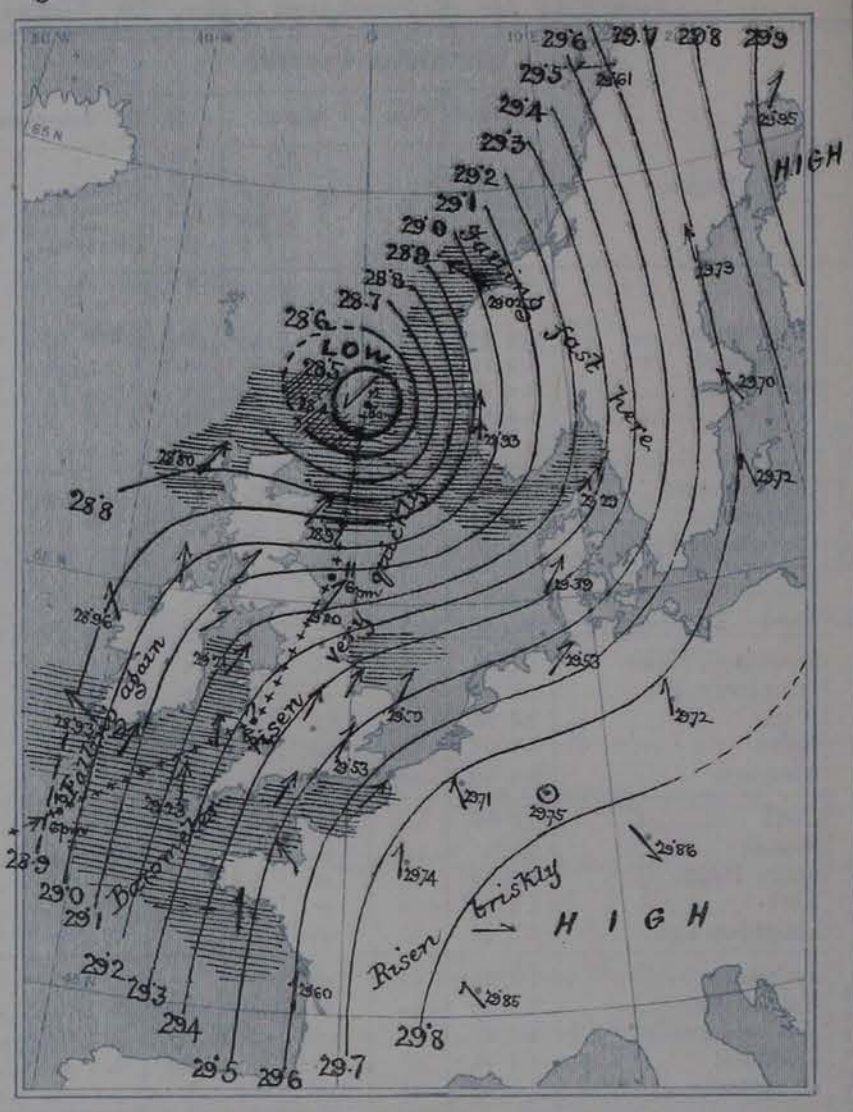
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10,
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

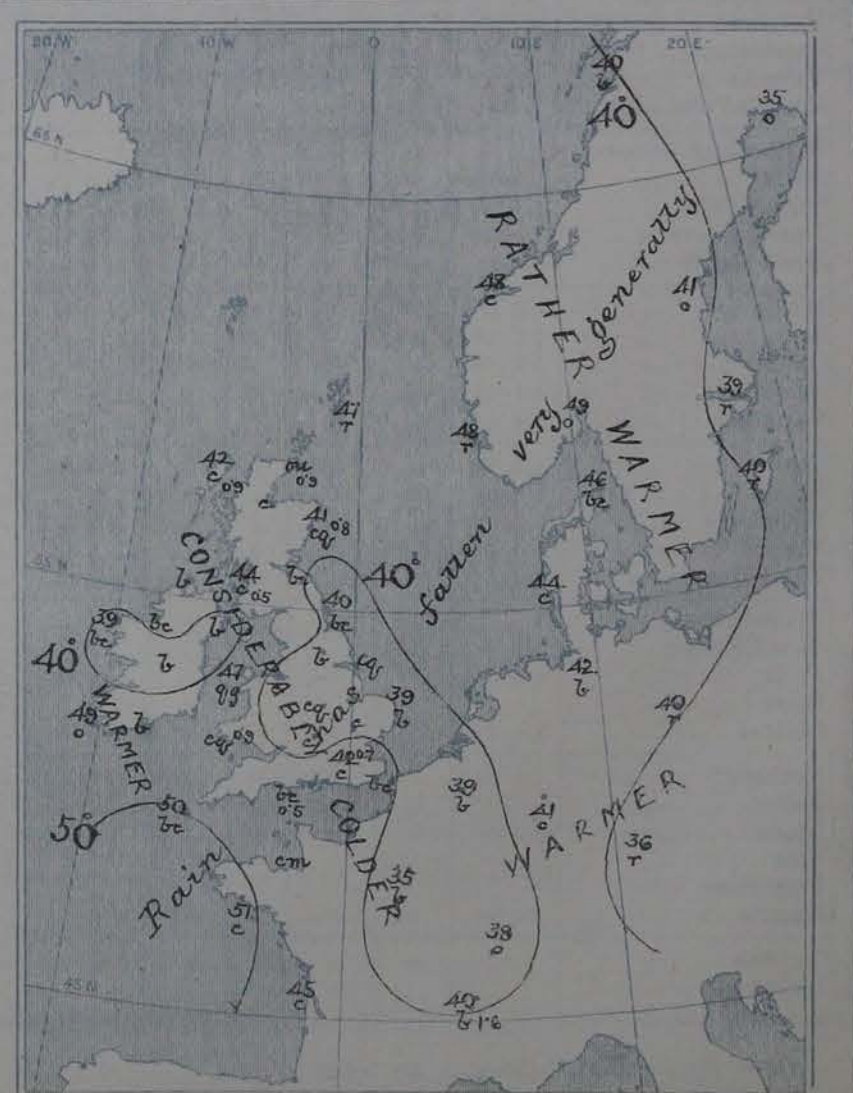
STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL Inches.
Sumburgh Head	45·6	37·8	42·0	40·3	1·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	46·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·01
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29·9 in: and upwards in the north of Sweden; 29·8 in: and upwards over the southern parts of France and Germany.
Lowest, 28·5 in: and less, in a depression lying near the Shetlands, 28·9 in: and less, to the westward of Ireland.
Gradients steep over the North Sea and Scandinavia, moderate elsewhere, but increasing over the southwest of our Islands.
Barometer rising over the greater part of the United Kingdom, but falling again on our southwest coasts.

TEMPERATURE

Highest, 51° at Jersey, 50° at Scilly, and 49° at Valencia Island, Rockabill Point, Pembroke and Hurst Castle.
Lowest, 34° at Donaghadee, 35° at Haparanda and Paris, 36° at Munich, 37° at Malin Hd, and 38° at Loughborough and Parsonstown.
A considerable fall of temperature has taken place over England.

WIND

S^ly over the greater part of England and Ireland, moderate in force in the north and east, but strong in the southwest.
Strong to a gale from the S^ward on the eastern shores of the North Sea and from the NW^ward in Caithness.
Strong from S. or SE in Sweden.

WEATHER

Fair over the greater part of our Islands and France, but dull at Valencia Island
Dull and rainy in the extreme north of Scotland, as well as at many of the Scandinavian stations.
The largest amounts of rain measured over our Islands this morning were 0·9 in: at Stornoway, Wick and Pembroke, 0·8 in: at Aberdeen and 0·7 in: in London.
Sleet fell at Pembroke yesterday

SEA

High at Scarborough Hd and rough or rather so on all but our northwest coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which is approaching Ireland seems likely to occasion a renewal of gales and heavy rain in many parts of the Kingdom. The disturbance will probably advance in a northerly direction

FORECASTS

For the 24 hours ending at NOON on 13th November. 1891.

DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH ▼ 1 SCOTLAND EAST	Wind shifting to the SE^ward and increasing in force; fair to dull and rainy.
2 ENGLAND N.E. ▼ 3 ENGLAND EAST 4 MIDLAND COUNTIES	Same as No 5
▼ 5 ENGLAND SOUTH	S^ly winds, increasing to a gale; fair to squally and rainy.
▼ 6 SCOTLAND WEST ▼ 7 ENGLAND N.W.	SE^ly winds, increasing in force; squally, rainy.
▼ 8 ENGLAND S.W.	S^ly and SW^ly strong winds and gales, squally, rainy.
▼ 9 IRELAND NORTH	Same as No 6 and 7.
▼ 10 IRELAND SOUTH	Same as No 8.
WARNINGS	The South Cone has been hoisted this morning in districts 7 to 10. The Signals are still flying in districts 0. 1. 3. 5. and 6.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29.19	48	41	ESE	8	o	5
Sumburgh Head	28.87	45	44	SE	6	r	6
Stornoway	28.62	44	44	SE	4	r	4
Aberdeen	28.47	47	46	ESE	10	o q r u	8
Shields	28.34	50	50	SE	4	r	5
Ardrossan	28.42	46	45	W	4	r	3
Malin Head ...	28.59	43	41	NW	6	o	4
Mullaghmore ...	28.73	45	43	WNW	8	c h r q	6
Belmullet	28.85	44	42	WNW	8	o q p	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	28.64	44	41	WNW	9	m q	7
Valencia	29.13	46	39	W	6	b c q h p	6
Scilly	29.13	48	43	WNW	10	o	7
Jersey	29.17	52	46	W	8	b c	7
Dungeness	28.67	48	47	W	12	r	7
London	28.68	47	45	SW	9	o q p	*
Yarmouth	28.49	52	50	SSW	8	o q q	6
Rochefort	29.46	52	50	W	6	r	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather very stormy and very rainy over the British Isles, but especially in the southwest, southeast, and northeast, and very unsettled over northwestern Europe generally and in Portugal, quiet over the southeastern, central, and eastern countries, but cloudy even there, with snow at Kharkov and Cracow. Much rain falling in the northern, eastern and southern districts later, and smaller quantities in the west; heavy falls over the south of France also.

Temperature changing very irregularly, and in many places rapidly — rapid (temporary) rise over England and France. Morning reading exceeding 60° at Algiers and Malta, exceeding 50° over Spain, France, and the southern and midland parts of England, and exceeding 40° over Ireland, Scotland, the east of England, and in Norway. Much lower elsewhere, lowest 22° at Moscow, 24° at Kharkov, 26° at Odessa, 29° at Nicolaieff and Cracow, 31° at Uleaborg and Nurofin. Rising to between 50° and 58° over England later, and to 60° or more over Central France.

Wind very light and variable over Russia, southeastern Europe, and the Mediterranean, moderate to strong from SE. on the eastern shores of the North Sea. Strong to a severe gale on the coasts of the British Isles and the north and west of France — SE$^{\frac{1}{2}}$ in the north and northeast, S$^{\frac{1}{2}}$ in the southeast, SW$^{\frac{1}{2}}$ to W$^{\frac{1}{2}}$ in the Channel and over the Bay of Biscay, and NW$^{\frac{1}{2}}$ in Ireland. Strong SE$^{\frac{1}{2}}$ gales in Scotland and Norway later, W$^{\frac{1}{2}}$ gales over Ireland, severe W$^{\frac{1}{2}}$ gales over the Channel, Ireland, England, the Netherlands and north of France — moderating towards night.

Barometer highest 30.6 ins. and more to 30.1 ins. over Russia, 30.0 ins. and more over southeastern Europe, and also over the extreme south of Spain. Lowest, 28.4 ins. and less, in a very deep depression lying over Wales and the west of England. Falling rapidly in the northeast, but inclined to recover in the southwest. Storm centre moving northeastwards later, and reaching our northeast coasts off Berwick by 6 p.m.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT.

for Friday, 13th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.98	33	SE	4	0	29.93	-.02	31	31	-4	SE	2	S	*	37	?	0.32
	Hernösand ...	29.75	41	SSE	4	0	29.77	+.04	41	40	0	S	4	0	*	43	36	0.24
	Stockholm ...	29.74	43	S	2	0	29.81	+.11	34	33	-5	Z	0	f	*	45	?	0.08
	Wisby	29.80	43	S	4	0	29.87	+.15	39	37	-1	S	4	0	*	43	37	0.12
	Bodö	29.52	42	SE	4	bc	29.61	.00	41	36	+1	E	4	c	2	43	37	-
	Christiansund	29.21	50	SE	4	c	29.53	+.51	46	38	-2	ESE	5	c	3	50	43	-
	Skudesnaes ...	29.46	48	SSW	7	0	29.59	+.66	48	45	0	SE	6	0	4	48	46	0.16
	Christiania Fjord (Færder)	29.57	48	WSW	5	bc	29.74	+.51	46	45	-3	ESE	4	bc	4	48	45	-
	Skagen (The Scaw)	29.69	45	SSW	5	c	29.75	+.46	42	41	-4	S	2	b	1	46	39	0.16
	Fanö	29.72	40	S	3	b	29.62	+.33	38	37	-6	ESE	5	c	*	48	34	0.08
BRITISH ISLANDS.	Sumburgh Head	29.94	45	W	5	0	29.34	+.86	45	44	-2	SSE	3	0	5	47	43	0.14
	Stornoway ...	29.11	44	SW	3	bc	29.14	+.34	44	44	+2	S	2	0	3	48	37	0.02
	Wick	29.19	40	NW	1	b	29.25	+.53	48	47	+5	SSE	5	0u	4	48	38	-
	Nairn	29.18	39	Z	0	b	29.17	+.33	43	41	+1	E	1	0	1	47	31	-
	Aberdeen ...	29.28	42	S	1	b	29.25	+.28	48	46	+7	SE	6	0qu	6	49	40	-
	Leith	29.25	44	S	1	b	29.12	+.05	49	47	+9	NE	3	0	*	50	38	-
	Shields	29.32	45	SE	3	bm	29.11	-.09	49	48	+9	SE	5	r	4	49	36	-
	Spurn Head ...	29.39	47	SSE	5	bc	29.08	-.34	49	48	+10	ESE	7	od	7	49	38	0.04
	York	29.37	45	ESE	2	bc	29.07	-.27	47	47	+8	ESE	2	r	*	48	37	0.19
	Loughborough	29.31	45	SSE	4	0	29.02	-.36	46	45	+8	SE	2	r	*	51	38	0.24
	Ardrossan ...	29.17	47	ENE	3	c	29.02	-.09	47	45	+9	ENE	4	om	2	49	42	0.04
	Malin Head ...	28.98	46	SE	5	0	28.91	-.11	47	47	+10	SE	5	or	3	48	37	0.29
	Mullaghmore ...	28.85	48	ESE	6	og	28.91	-.12	46	45	+5	E	3	om	2	50	40	0.12
	Belmullet ...	28.72	47	SE	8	ou	28.90	-.06	43	41	+4	E	2	c	*	48	35	0.08
	Donaghadee ...	29.10	51	SSW	7	c	28.98	-.18	48	48	+14	S	7	r	6	51	34	0.68
	Liverpool (Bidston)	29.21	46	ESE	5	0	28.99	-.32	45	44	+6	SE	2	0	3	49	39	0.25
	Holyhead ...	29.09	49	SE	4	cq	28.95	-.26	47	46	0	SSE	1	ogm	2	50	44	0.24
	Parsonstown ...	28.77	48	SE	3	r	28.91	-.19	39	38	+1	SE	1	bc	*	51	36	0.40
	Valencia	28.36	52	ESE	9	ru	28.78	-.15	46	44	-3	SSE	4	oq	4	52	41	0.63
	Roche's Point ...	28.56	51	SSE	9	r	28.89	-.18	46	44	-3	SSE	4	cp	5	53	45	0.80
	Pembroke (St. Ann's Hd.)	28.93	51	SE	8	cqp	28.95	-.31	49	46	0	SSW	4	cqp	6	52	46	0.35
	Scilly	28.76	50	SSE	11	r	28.95	-.28	48	45	-2	WSW	4	bc	6	53	45	0.33
	Prawle Point ...	29.09	51	W	7	0	29.03	-.36	49	45	0	SW	6	cu	5	52	45	0.31
	Jersey (St. Aubin's)	29.26	53	SE	7	cgmu	29.13	-.41	50	47	+3	S	4	bcm	4	53	46	0.32
	Hurst Castle ...	29.30	51	S	6	cu	29.08	-.41	48	48	-1	?WNW	5	r	5	52	47	0.35
	Dungeness ...	29.47	51	SSW	5	c	29.14	-.42	50	50	+2	SSW	8	p	6	51	47	0.06
	London	29.41	49	S	4	0	29.10	-.43	48	46	+6	S	3	r	*	53	42	0.20
	Oxford	29.28	47	SSE	4	c	29.06	-.41	46	45	+7	S	1	r	*	50	39	0.26
	Cambridge ...	29.43	44	S	3	0	29.08	-.43	47	46	+7	SSE	3	r	*	51	38	0.15
	Yarmouth ...	29.49	47	S	6	bq	29.18	-.32	50	48	+11	SE	6	cg	6	50	37	-
GERMANY & HOLLAND.	Cuxhaven ...	29.79	41	S	1	b	29.63	+.10	41	40	-1	SE	4	0	*	45	39	-
	Berlin	29.89	38	Z	0	f	29.84	+.12	35	35	-5	SE	3	f	*	45	30	0.04
	Wiesbaden ...	*	*	*	*	*	29.59	-.16	42	40	+1	NE	2	0	*	48	37	-
	Munich	29.88	32	SE	3	b	29.68	-.18	32	32	-4	NE	2	0	*	37	29	0.32
	The Helder ...	29.65	41	SE	1	b	29.37	-.21	42	41	-4	SE	2	c	3	48	41	-
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.26	-.45	49	45	+10	SE	5	0	*	50	38	-
	Cape Gris Nez	29.49	48	S	4	c	29.17		49	47		S	4	r	5	49	41	0.04
	Paris	29.58	47	SE	3	0	29.27	-.47	53	49	+18	SSW	3	0	*	55	35	-
	Brest																	
	Lorient	29.11	55	S	8	0	29.12	-.38	51	46	0	SW	5	c	6	55	49	?2.21
	Rochefort ...	29.39	51	S	4	0	29.28	-.32	51	49	+6	WSW	3	r	*	55	45	0.24
	Belfort	?	38	SW	3	c	?	?	42	36	+4	SW	2	c	*	60	38	-
	Lyons	29.70	46	SE	2	0	29.34	-.51	58	54	+18	S	6	0	*	54	40	0.08
	Nice																	
	Perpignan ...	29.64	60	S	5	0	29.39	-.44	64	58	+15	SSW	6	0	*	64	49	-
	Biarritz	29.41	64	SSW	6	0	29.38		58	50		SW	3	bc	?	64	54	0.04
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon																	

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Friday, 13th November, 1891.

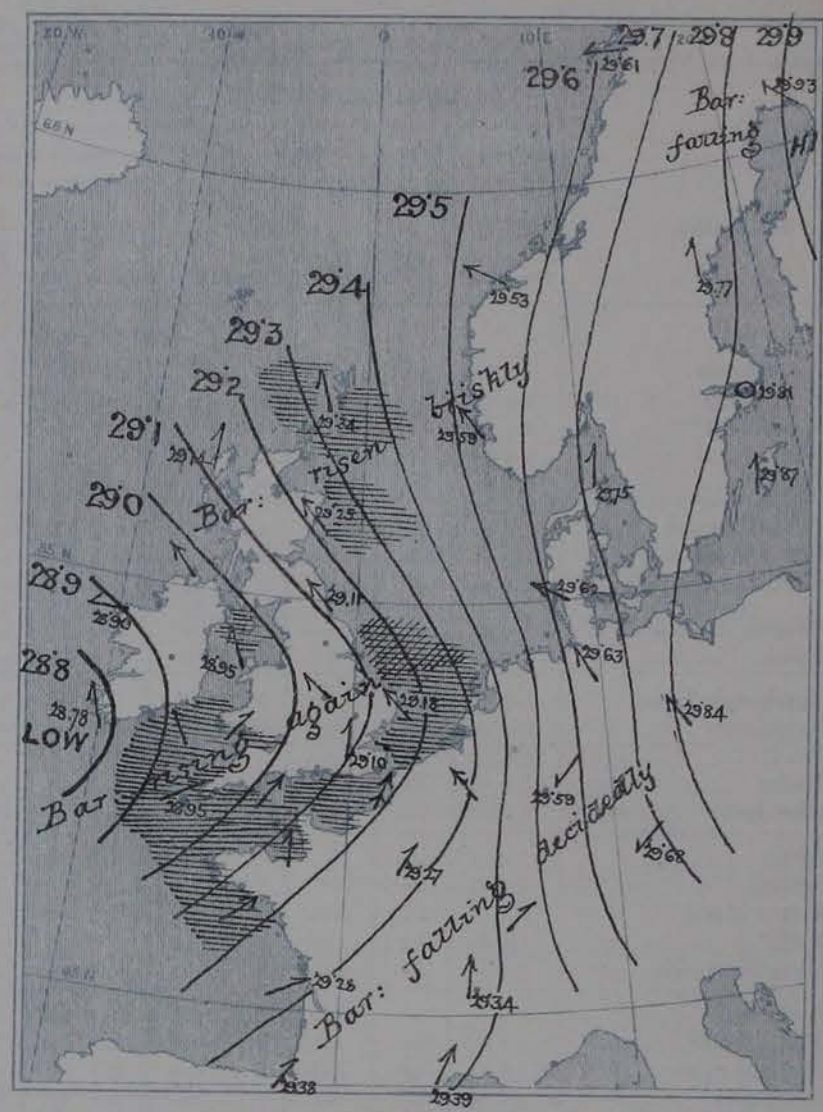
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
c = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8·0 a.m. for the month of November During the 20 Years: 1871—1890.

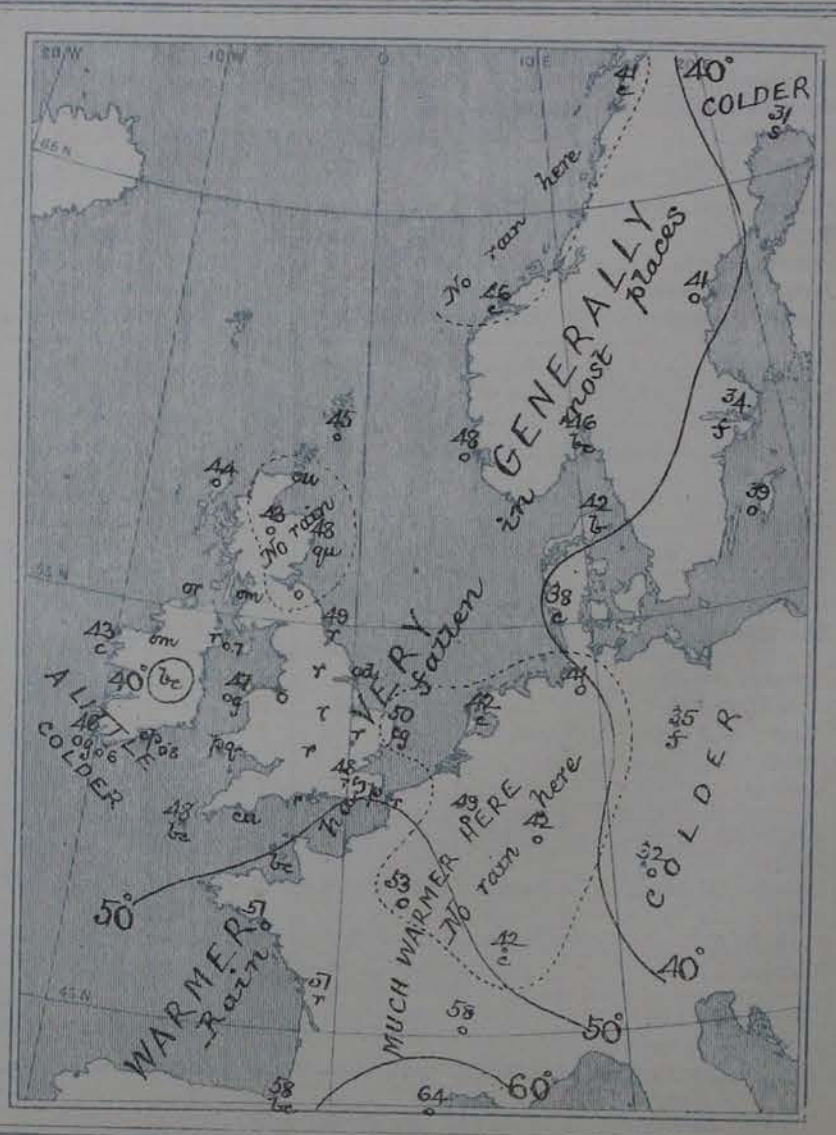
STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·863
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	4·18
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	45·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·0	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29·9 in: and upwards in the north of Sweden.
Lowest, 28·8 in: and less, in a depression lying to the southwestward of Ireland.
Gradients moderate or slight generally. Barometer falling over France and Germany, but rising elsewhere — briskly on our southwest coasts.

TEMPERATURE

Highest, 64° at Perpignan, 58° at Lyons and Biarritz, 53° at Paris, and 51° at Lorient and Rochefort.
Lowest, 31° at Haparanda, 32° at Munich, 34° at Stockholm, 35° at Berlin, 38° at Paris and 39° at Parsonstown.
The maxima registered yesterday were a little above 50° in most part of Ireland and England.

WIND

SE^{ly} in all the more northern parts of the United Kingdom, as well as on the eastern shores of the North Sea, strong in force on the east coast of Great Britain.
Strong from the Sth or SW^{ly} over the Channel, with a gale at Dungeness, light or moderate from the same quarters over the greater part of France.

WEATHER

Rainy over the central parts of England and also in the north of Ireland; cloudy and showery in most other parts of Western Europe, but fine at the mouth of the Channel.
Solar halos were seen yesterday in many parts of Ireland and England, and heavy rain fell at some of our western and southern stations, the largest amounts being 0·8 in: at Rockhe Point, and 0·7 in: at Donaghadee.

SEA

Rough or rather so on nearly all parts of our coasts, and high at Spurn Hd.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure over Western Europe appears to be undergoing a gradual change, and winds from the SE^{ly} or E^{ly} are likely to become more general than at present. Showery weather will probably continue over our Islands for a time.

FORECASTS

For the 24 hours ending at NOON on 14th November 1891.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	SE^{ly} to E^{ly} winds, moderating in force; cloudy, some showers.
2 ENGLAND N.E. 3 ENGLAND EAST	SE^{ly} winds, strong to moderate; changeable, showery.
4 MIDLAND COUNTIES 5 ENGLAND SOUTH	S^{ly} winds, moderating in force; changeable, showery.
6 SCOTLAND WEST	E^{ly} winds, light or moderate; cloudy, some showers.
7 ENGLAND N.W.	SE^{ly} winds, light or moderate; cloudy, some showers.
8 ENGLAND S.W.	SW^{ly} to S^{ly} winds, moderate or fresh; changeable, showery.
9 IRELAND NORTH 10 IRELAND SOUTH	SE^{ly} winds, moderate; changeable, showery.
WARNINGS	The SOUTH CONE has been lowered this morning in districts 2.3.5. and 7 to 10.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29·25	48	43	SW	8	o	8
Sumburgh Head	28·80	46	44	WSW	5	r	7
Stornoway	29·03	47	45	SW	4	bc	4
Aberdeen	29·19	44	39	SSW	6	bq	5
Shields	29·31	45	42	S	3	c	3
Arbroath	29·17	48	46	ENE	3	c	2
Malin Head ...	29·05	44	42	SSE	4	c	3
Mullaghmore ...	28·97	48	45	SE	5	o g u	4
Belmullet	28·89	46	44	ESE	3	o	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29·18	49	46	S	5	bc	5
Valencia	28·57	50	48	ESE	8	r m	6
Scilly	28·95	53	51	SSE	8	o	7
Jersey	29·40	51	38	SE	7	o	6
Dungeness	29·55	51	48	SW	5	bc	4
London	29·48	51	46	SSE	5	bc	*
Yarmouth	29·52	48	45	SSW	4	b	4
Rochefort	29·52	52	50	? SE	5	r	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fair and quiet over eastern Europe and the southern parts of the Mediterranean only, unsettled elsewhere and especially so over the Baltic, Scandinavia, and the British Isles; rain falling at several stations over the northwestern countries, snow at Uleaborg, but chiefly temporarily clear over the greater part of England and north of Ireland, as well as in several parts of France. Much rain over Brittany, considerable quantities in the southwest of our Islands, and smaller quantities in Ireland and the western and southern counties of England, lightning seen at Naule Point.

Temperature fallen greatly in most places, but rain over Norway and the Mediterranean; changes, however, very fickle. Morning reading exceeding 60° at several Italian and Algerian stations and at Malta, not much below 50° in Norway and Denmark. Much lower elsewhere. Lowest (1) 7° at Kharkov, 14° at Moscow, 15° at Kiev and 22° at St Petersburg; (2) 35° at Paris, and 38° to 40° over the midland counties of England. Rising later to between 50° and 53° over England and to between 60° and 65° in the southwest of France.

Wind (1) blowing a gale from between SW. and SE over Denmark and Scandinavia and from NW in Caithness; (2) moderate SW^{ly} over the North Sea, fresh SSW^{ly} and S^{ly} over England. Strong S^{ly} in the Irish Sea and SE^{ly} at Valencia Island, but SW^{ly} over Spain. Light from the NE^{ly} over the south of Russia; variable over Austria and South Germany; SE^{ly} in Italy. Strong gale from the SE^{ly} setting in later in the extreme west and southwest of our Islands, and wind blowing with the force of a "storm" at Scilly.

Barometer highest 30·6 ins. and upwards in an anticyclone over Central Russia. Lowest 28·5 ins. and less, in a well marked depression lying between the Shetlands and the Norwegian coasts; 28·9 ins. and less, in another disturbance lying to the southwestward of Ireland. Latter system subsequently advancing towards our Islands and barometer falling rapidly on our southwest coasts – the 6 p.m. reading at Valencia Island being as low as 28·36 ins. Depression near Shetlands beginning to fill up.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Saturday, 14th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.96	30	S	4	S	30.02	+.09	30	30	-1	S	2	S	*	34	28	0.20
	Hernösand ...	29.88	39	S	2	0	29.92	+.15	40	39	-1	S	2	0	*	43	34	-
	Stockholm ...	29.91	37	Z	0	f	29.91	+.10	38	37	+4	SSE	2	r	*	45	34	-
	Wisby	29.90	35	SE	4	b	29.85	-.02	35	33	-4	ESE	4	S	*	43	32	-
	Bodö	29.79	39	E	1	b	29.82	+.21	38	34	-3	E	2	c	2	41	36	-
	Christiansund	29.65	42	SE	2	b	29.58	+.05	41	35	-5	SE	2	b	2	48	39	-
	Skudesnaes ...	29.50	48	ESE	6	0	29.44	-.15	46	40	-2	ESE	8	0	5	48	45	-
	Christiania Fjord (Færder)	29.77	42	ENE	3	b	29.69	-.05	40	39	-6	NE	5	0	3	46	39	-
	Skagen (The Scaw)	29.68	43	ESE	7	0	29.75	.00	41	40	-1	ESE	8	r	5	46	39	0.32
	Fanö	29.38	42	ESE	7	r	29.39	-.23	41	41	+3	SSE	4	r	*	45	38	0.51
BRITISH ISLANDS.	Sumburgh Head	29.36	47	SE	4	0	29.22	-.12	44	44	-1	E	7	r	8	48	42	0.19
	Stornoway ...	29.11	48	SE	4	0	29.06	-.08	46	46	+2	E	4	r	4	49	42	0.80
	Wick	29.19	48	SE	6	0	29.09	-.16	45	44	-3	S	4	c	6	49	44	0.21
	Nairn	29.08	47	E	2	r	29.09	-.08	43	42	0	Z	0	p	1	48	40	0.31
	Aberdeen ...	29.10	47	ESE	8	oqru	29.22	-.03	42	40	-6	SSW	2	0	6	49	41	0.38
	Leith	28.98	45	ENE	3	0	29.20	+.08	43	41	-6	S	2	c	*	49	38	0.21
	Shields	29.06	45	S	2	om	29.22	+.11	36	36	-13	SSW	3	f	4	49	33	0.38
	Spurn Head ...	29.13	45	S	4	b	29.27	+.19	44	43	-5	SSE	3	bc	4	49	40	0.08
	York	29.08	47	S	1	c	29.24	+.17	38	38	-9	ESE	1	b	*	48	35	0.27
	Loughborough	29.13	42	ESE	1	b	29.21	+.19	39	38	-7	SE	1	om	*	54	35	0.06
	Ardrossan ...	29.00	46	ENE	1	rm	29.16	+.14	43	42	-4	ENE	3	0	2	47	39	0.59
	Malin Head ...	28.96	43	NW	2	or	29.08	+.17	40	39	-7	S	2	c	2	47	38	0.45
	Mullaghmore ...	28.99	43	SSE	1	om	29.08	+.17	42	41	-4	E	2	bo	2	47	38	-
	Belmullet ...	29.00	40	E	2	0	29.09	+.17	38	38	-5	E	1	b	*	48	37	0.09
	Donaghadee ...	29.01	43	SSW	3	c	29.14	+.16	36	36	-12	SSW	3	bc	1	48	32	0.34
	Liverpool (Bidston)	29.11	43	S	1	c	29.20	+.21	39	37	-6	ESE	3	c	3	50	37	0.02
	Holyhead ...	29.05	47	W	1	cpm	29.14	+.19	42	40	-5	SE	1	bc	2	52	41	0.12
	Parsonstown ...	29.02	41	Z	0	b	29.10	+.19	29	28	-10	Z	0	b	*	51	28	-
	Valencia	28.98	44	E	2	c	29.06	+.28	37	36	-9	E	1	bc	2	51	34	0.03
	Roche's Point ...	29.01	48	S	4	bc	29.05	+.16	39	38	-7	N	3	bcw	4	52	37	0.02
	Pembroke (St. Ann's Hd.)	29.06	48	SSW	5	c	29.08	+.13	49	48	0	SE	4	og	5	52	47	0.03
	Scilly	29.00	48	S	5	cp	28.94	-.01	50	50	+2	ESE	6	or	6	50	45	0.12
	Prawle Point ...	29.14	45	SW	3	0	29.10	+.07	50	48	+1	SE	6	0	5	52	44	0.15
	Jersey (St. Aubin's)	29.22	50	SSE	4	bcm	29.16	+.03	49	46	-1	SE	6	opgmu	5	54	47	0.02
	Hurst Castle ...	29.22	50	WSW	5	bcp	29.21	+.13	49	48	+1	S	5	b	5	53	47	0.10
	Dungeness ...	29.21	51	SW	4	c	29.29	+.15	47	47	-3	S	5	bcu	4	53	46	0.03
	London	29.21	47	SW	2	bc	29.25	+.15	42	42	-6	SE	2	bw	*	54	40	0.01
	Oxford	29.21	43	S	2	bc	29.23	+.17	42	41	-4	SSE	2	c	*	52	41	0.08
	Cambridge ...	29.21	44	S	1	b	29.28	+.20	42	41	-5	ESE	1	c	*	54	35	0.02
	Yarmouth ...	29.19	47	SSW	3	b	29.30	+.12	45	44	-5	SSW	2	c	3	50	42	0.09
GERMANY & HOLLAND.	Cuxhaven ...	29.43	43	SSE	6	r	29.46	-.17	43	43	+2	SW	2	f	*	45	41	0.32
	Berlin	29.59	40	SE	3	0	29.55	-.29	40	39	+5	SSE	2	r	*	41	35	-
	Wiesbaden ...	*	*	*	*	*	29.47	-.12	42	41	0	Z	0	0	*	45	41	0.24
	Munich	29.50	38	SW	2	c	29.52	-.16	40	40	+8	SE	1	0	*	46	32	-
	The Helder ...	29.28	47	SSW	1	b	29.41	+.04	41	40	-1	S	1	f	1	48	41	0.20
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.40	+.14	40	39	-9	SSE	1	c	*	53	37	0.12
	Cape Gris Nez																	
	Paris	29.40	43	S	2	0	29.38	+.11	41	41	-12	SE	2	b	*	53	37	0.32
	Brest	?	51	SW	5	0	?		50	49		SE	5	r	6	54	46	0.28
	Lorient	29.20	49	SW	6	0	29.03	-.09	50	47	-1	SSE	5	0	7	57	48	0.43
	Rochefort ...	29.37	50	SW	9	bc	?	?	46	44	-5	SE	5	c	*	55	43	0.12
	Belfort	?	36	W	5	c	?	?	42	36	0	W	3	r	*	50	35	0.32
	Lyons	29.57	45	E	2	r	29.54	+.20	42	41	-16	ESE	2	0	*	63	42	2.68
	Nice	29.68	57	SW	4	f	29.56	-.18	54	53	-4	SW	2	r	4	59	54	0.75
	Perpignan ...	29.47	49	SE	4	c	29.50	+.11	47	42	-17	NE	1	b	*	70	47	-
	Biarritz	29.42	56	S	4	0	29.36	-.02	54	44	-4	SW	5	c	5	68	50	-
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	29.67	54	WSW	5	b	29.64	+.04	56	52	+6	WSW	6	0	4	57	50	0.20

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Saturday, 14th Nov. 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

BAROMETER.—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

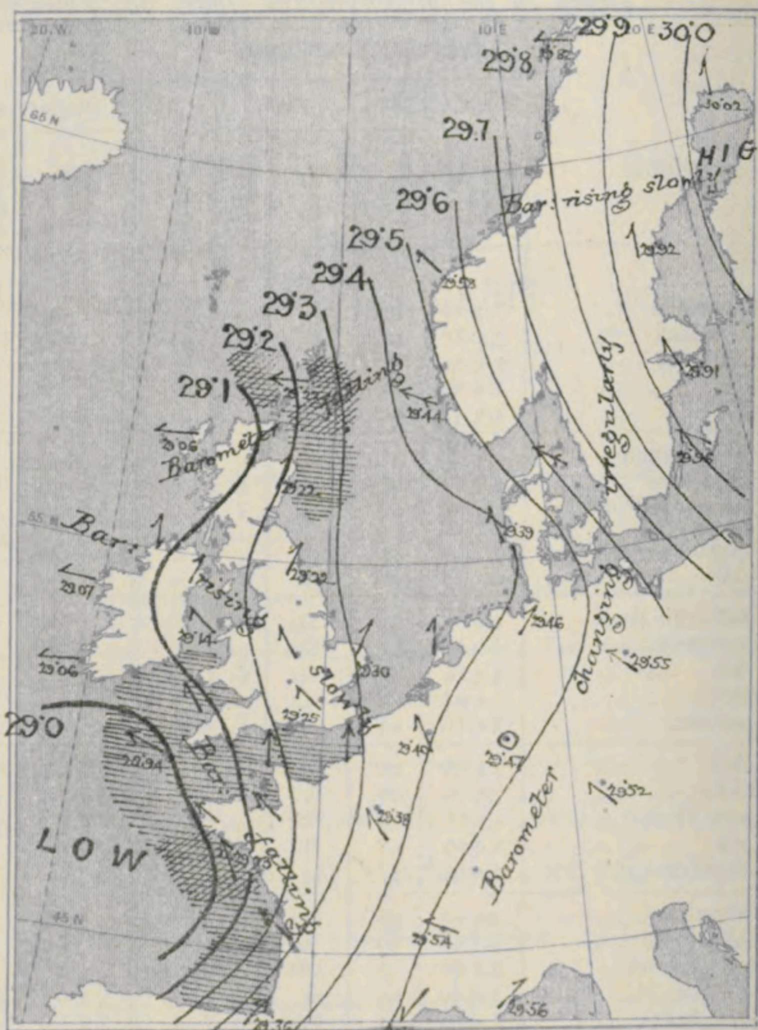
WIND.—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
→ = forces above 10; → = forces 8 to 10; → = forces 5 to 7; → = forces 1 to 4. ⊙ = dead calm.

SEA DISTURBANCE.—Where considerable, is shewn thus: ▤ = Rough. ▦ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29 · 683
Stornoway	29 · 699
Wick	29 · 722
Nairn	29 · 738
Aberdeen	29 · 758
Leith	29 · 789
Shields	29 · 813
Spurn Head	29 · 842
York	29 · 846
Loughborough	29 · 877
Ardrossan	29 · 791
Mullaghmore	29 · 780
Donaghadee	29 · 810
Holyhead	29 · 835
Liverpool	29 · 851
Parsonstown	29 · 847
Valencia	29 · 865
Roche's Point	29 · 865
Pembroke	29 · 864
Scilly	29 · 897
Prawle Point	29 · 914
Jersey	29 · 928
Hurst Castle	29 · 902
Dover	29 · 893
LONDON	29 · 898
Oxford	29 · 896
Cambridge	29 · 887
Yarmouth	29 · 865



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE.—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches.)
Sumburgh Head	45 · 6	37 · 8	42 · 0	40 · 3	4 · 16
Stornoway	46 · 2	37 · 0	41 · 7	40 · 7	4 · 70
Wick	46 · 1	36 · 1	41 · 4	39 · 8	2 · 93
Nairn	45 · 3	35 · 7	39 · 8	38 · 2	2 · 29
Aberdeen	46 · 2	36 · 5	40 · 5	38 · 7	3 · 14
Leith	48 · 1	37 · 0	41 · 7	40 · 0	2 · 20
Shields	47 · 3	37 · 9	42 · 1	40 · 5	2 · 61
Spurn Head	46 · 8	40 · 2	43 · 2	41 · 9	2 · 40
York	47 · 5	36 · 4	40 · 6	39 · 3	2 · 19
Loughborough	48 · 0	36 · 6	40 · 5	39 · 3	2 · 24
Ardrossan	47 · 8	39 · 1	43 · 1	41 · 3	3 · 88
Mullaghmore	49 · 6	41 · 2	45 · 1	43 · 1	4 · 48
Donaghadee	48 · 3	39 · 2	43 · 2	42 · 0	3 · 20
Holyhead	49 · 7	42 · 9	45 · 8	44 · 0	3 · 88
Liverpool	47 · 8	39 · 6	42 · 5	40 · 7	2 · 96
Parsonstown	49 · 1	37 · 1	41 · 9	40 · 2	2 · 83
Valencia	52 · 3	43 · 0	47 · 4	45 · 5	5 · 42
Roche's Point	51 · 1	42 · 0	46 · 1	44 · 5	4 · 62
Pembroke	50 · 1	43 · 8	46 · 9	45 · 1	4 · 04
Scilly	52 · 4	46 · 7	50 · 0	48 · 0	3 · 72
Prawle Point	51 · 1	41 · 9	46 · 2	44 · 7	3 · 20
Jersey	51 · 9	44 · 1	47 · 7	45 · 8	4 · 30
Hurst Castle	50 · 5	40 · 6	44 · 9	44 · 0	3 · 05
Dover	49 · 3	40 · 6	44 · 3	42 · 8	3 · 48
LONDON	49 · 3	38 · 0	42 · 2	40 · 8	2 · 23
Oxford	48 · 2	37 · 6	41 · 2	40 · 0	2 · 31
Cambridge	48 · 6	35 · 8	40 · 7	39 · 9	2 · 01
Yarmouth	47 · 5	39 · 0	43 · 1	42 · 0	3 · 06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·0 ins: and upwards, in the north of Sweden; 29·6 ins: and upwards over the southern parts of the Spanish Peninsula.
Lowest, 29·0 ins: and less, in a shallow depression lying to the southwestward of our Islands.
Gradients moderate or slight generally. Barometer falling in France and the southwest of England as well as in the north of Scotland and the south of Norway, but rising elsewhere.

TEMPERATURE

Highest, 56° at Lisbon, 54° at Nice and Biarritz, and 50° at Scilly, Creuk Point, Brest, and Lorient.
Lowest, (1) 29° at Parsonstown, 36° at Donaghadee and 37° at Valencia Island; (2) 30° at Haparanda, 35° at Wick, and 38° at Aas and Stockholm.
Ground frost occurred over England last night; at Loughborough the thermometer on the grass fell to 25°.

WIND

SE^{ly} over the greater part of Western Europe; strong in force over the western half of the Channel, and blowing a gale in the south of Norway.
Light from the E^{ly} in the west of Ireland; variable in the south of France.

WEATHER

Fine at most of the English and Irish stations, but dull over Scotland and the greater part of the Continent.
Rain is falling in the extreme north of Scotland, as well as in Denmark and the northwest of France, and snow in Sweden.
Rain fell yesterday in most parts of Western Europe, and thunderstorms occurred in France as well as at Creuk Point; at Lyons the accompanying rainfall amounted to 2·3 ins:.

SEA

Very high at Lerwick Hd and rough or rather so on our southwestern and extreme northern coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any decided change in the weather but some decrease of temperature is probable over our islands. Showers are likely to fall in most districts.

FORECASTS

For the 24 hours ending at NOON on 15th Novr 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	E^{ly} and SE^{ly} winds, moderate; changeable, showery.	6 SCOTLAND WEST	E^{ly} winds, light, fair generally, but perhaps local showers.
1 SCOTLAND EAST	SE^{ly} and E^{ly} winds, light; changeable, some showers.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	SE^{ly} winds, strong to moderate; changeable, some showers.
3 ENGLAND EAST		9 IRELAND NORTH	Same as N°s 6 and 7.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH	S^{ly} and SE^{ly} winds, moderate inland, fresh or strong on coast; changeable, some showers.	WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29.58	46	41	SE	6	o	5
Sumburgh Head	29.37	47	46	SE	4	o	5
Stornoway	29.14	49	48	SE	4	c	4
Aberdeen	29.16	48	46	ESE	6	o q p u	6
Shields	29.00	48	48	ESE	5	r	5
Ardrossan	29.96	47	45	ENE	1	r m	1
Malin Head ...	28.95	45	44	NW	1	o	2
Mullaghmore ...	28.95	47	46	SE	1	o m	2
Belmullet	28.97	48	46	E	2	o	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.00	50	47	S	3	c	2
Valencia	28.91	48	46	ESE	4	c p	4
Scilly	29.00	48	47	S	4	c p	6
Jersey	29.18	51	47	SSW	4	b c	4
Dungeness	29.18	52	50	MSW	4	c	3
London	29.14	53	50	SW	3	c	*
Yarmouth	29.13	50	48	SSW	3	b c	4
Rochefort	29.36	51	50	MSW	5	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning still unsettled over the British Isles, France, and Spain, with rain in many places, cloudy or overcast over Europe generally, with snow in several parts of Finland and at Haparanda, rain over Hungary. Rain falling in nearly all parts of our Islands and Western Europe later, snow at times at Haparanda, but no fall at the other Swedish and Norwegian stations, and very little over the southeast of England. Very heavy fall (2·7 in.) at Lyons, and 0·75 in. at Nice.

Temperature changing very irregularly; rising rapidly over France and quickly in most parts of Great Britain. Morning readings 71° at Algiers, 62° at Sanguinaire, 63° at Madrid and Barcelona [Italian reports not in]; 45° to 50° over the British Isles and Norway, lower over the more inland countries. Lowest −3° F. at Kharkov, +13° at Nicolaiff and St Petersburg, 14° at Moscow, 21° at Archangel, 32° to 38° over Central Europe, 41° at Cuxhaven. Rising to between 50° and 55° in the west and south of our Islands later to 60° and more in the south of France and to 70° at Perpignan.

Wind very light and variable over eastern and southeastern Europe, moderate to a moderate gale in the west and northwest. Mainly SW over Spain, the Bay of Biscay and English Channel, more S over France and the southeast of England, SE over Ireland and the northern and eastern parts of Great Britain as well as in Norway and the eastern shores of the North Sea; S over the Baltic and Gulf of Bothnia and Finland. Shifting to E. and NE. in the west of Ireland later and to SW. over our southeastern countries — blowing a gale from ESE. at Aberdeen.

Barometer highest 30·6 in. and more to 30·0 in. over Russia and exceeding 30·0 in. over the southeastern parts of the Mediterranean. Lowest 28·8 in. and less in a depression lying to the southwestward of Valencia Island, and falling up, and below 29·1 in. over Central England. Rising decidedly in Ireland and less quickly over France all day, falling in the north of England and over Scotland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Sunday 15th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30.15	27	S	2	o	30.15	+ .13	19	19	− 11	E	2	o	*	32	?	0.08
	Hernösand ...	29.97	39	Z	o	c	29.94	+ .02	33	31	− 7	NE	2	o	*	41	?	—
	Stockholm ...	29.84	35	E	4	o	29.67	− .24	33	32	− 5	E	4	o	*	41	32	0.04
	Wisby														*			
	Bodö	29.82	37	E	2	b	29.88	+ .06	36	31	− 2	E	2	b	1	38	32	—
	Christiansund	29.61	45	SE	5	c	29.63	+ .05	42	39	+ 1	SE	5	c	2	45	41	—
	Skudesnaes ...	29.52	45	ESE	3	o	29.60	+ .16	44	41	− 2	E	4	o	3	46	43	0.08
	Christiania Fjord (Færder)	29.63	39	ENE	7	r	29.69	.00	37	35	− 3	NNE	3	o	2	41	36	0.91
	Skagen (The Scaw)	29.56	40	ESE	6	r	29.59	− .16	38	37	− 3	E	3	o	1	41	36	0.35
	Fanö	29.48	39	SSE	3	c	29.51	+ .12	38	38	− 3	Z	o	f	*	48	37	0.08
BRITISH ISLANDS.	Sumburgh Head	29.38	47	SE	2	o	29.50	+ .28	42	42	− 2	Z	o	c	5	50	41	0.03
	Stornoway ...	29.22	45	S	4	r	29.44	+ .38	40	40	− 6	NE	2	bc	2	47	39	0.35
	Wick	29.32	46	S	1	b	29.49	+ .40	44	43	− 1	S	2	bc	3	47	42	0.15
	Nairn	29.29	39	Z	o	c	29.44	+ .35	35	34	− 8	Z	o	c	1	45	31	0.04
	Aberdeen ...	29.36	46	SSE	2	cp	29.49	+ .27	44	43	+ 2	SE	2	ophrw	5	47	42	0.48
	Leith	29.29	44	S	2	bc	29.42	+ .22	44	43	+ 1	NNE	1	o	*	50	38	0.01
	Shields	29.30	46	Z	o	om	29.37	+ .15	47	45	+ 11	E	2	c	2	47	36	0.09
	Spurn Head ...	29.29	48	ESE	3	c	29.25	− .02	47	45	+ 3	E	5	or	5	48	43	0.05
	York	29.29	46	ESE	1	o	29.31	+ .07	47	46	+ 9	NE	1	o	*	47	36	0.02
	Loughborough	29.25	42	SE	1	b	29.21	.00	45	44	+ 6	NE	2	ogm	*	49	39	0.09
	Ardrossan ...	29.26	44	ENE	1	om	29.38	+ .22	44	43	+ 1	ENE	1	om	1	47	40	0.03
	Malin Head ...	29.21	42	S	1	c	29.36	+ .28	45	44	+ 5	SE	3	or	2	46	40	—
	Mullaghmore ...	29.22	42	E	2	c	29.35	+ .27	38	38	− 4	ESE	4	c	2	45	35	—
	Belmullet ...	29.20	42	N	1	b	29.33	+ .26	43	43	+ 5	ESE	1	c	*	47	37	0.05
	Donaghadee ...	29.23	48	SE	2	bc	29.36	+ .22	47	46	+ 11	ENE	3	o	1	50	35	0.26
	Liverpool (Bidston)	29.25	45	E	3	m	29.29	+ .09	44	43	+ 5	NE	1	o	2	46	39	0.01
	Holyhead ...	29.18	46	E	1	og	29.29	+ .15	47	46	+ 5	ENE	4	og	3	48	41	—
	Parsonstown ...	29.18	40	Z	o	bc	29.37	+ .27	32	31	+ 3	Z	o	f	*	45	28	—
	Valencia	29.20	44	N	2	b	29.46	+ .34	47	46	+ 10	NNW	1	op	1	52	36	0.01
	Roche's Point ...	29.12	45	ENE	4	cd	29.36	+ .31	42	40	+ 3	N	4	b	4	49	38	0.30
	Pembroke (St. Ann's Hd.)	29.06	48	E	4	c	29.24	+ .16	46	45	− 3	NNE	3	cgm	2	49	45	0.07
	Scilly	28.90	51	E	4	rd	29.21	+ .27	51	50	+ 1	N	5	c	5	51	50	0.46
	Prawle Point ...	28.98	50	ESE	6	o	29.15	+ .05	47	47	− 3	N	2	cm	2	50	46	0.16
	Jersey (St. Aubin's)	29.00	51	SE	7	opm	29.10	− .06	51	50	+ 2	WNW	3	cgm	4	52	48	0.25
	Hurst Castle ...	29.13	49	ESE	4	r	29.12	− .09	48	48	− 1	NE	4	cmd	3	52	48	0.17
	Dungeness ...	29.26	50	S	6	b	29.12	− .17	49	49	+ 2	S	4	d	4	52	46	0.08
	London	29.24	47	SE	2	o	29.16	− .07	46	45	+ 4	E	2	ogd	*	52	42	0.04
	Oxford	29.21	46	E	1	o	29.18	− .05	45	45	+ 3	NE	1	og	*	51	42	0.05
	Cambridge ...	29.28	44	ESE	2	bc	29.21	− .07	46	45	+ 4	ENE	1	o	*	51	40	0.16
	Yarmouth ...	29.32	48	SSE	4	bc	29.25	− .05	48	47	+ 3	ESE	5	ocg	5	49	43	0.11
GERMANY & HOLLAND.	Cuxhaven ...	29.50	43	S	1	f	29.54	+ .08	39	39	− 4	ENE	1	f	*	47	37	—
	Berlin	29.48	42	NW	2	r	29.58	+ .03	43	43	+ 3	Z	o	f	*	43	40	0.47
	Wiesbaden ...	*	*	*	*	*	29.54	+ .07	40	39	− 2	Z	o	c	*	46	43	0.04
	Munich	29.62	35	SW	1	b	29.61	+ .09	32	32	− 8	SE	3	b	*	43	30	0.32
	The Helder ...	29.45	41	SE	1	b	29.39	− .02	43	42	+ 2	ESE	2	c	3	45	41	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.28	− .12	47	44	+ 7	SSE	5	o	*	50	39	0.04
	Cape Gris Nez	29.28	48	SE	4	o	29.15	− .15	46	46	+ 5	SSE	3	r	4	50	39	0.12
	Paris	29.31	50	SSE	2	o	29.27	− .11	49	47	+ 8	SSW	5	o	*	54	43	0.12
	Brest	?	49	ENE	2	c	?	?	52	50	+ 2	NW	3	c	5	54	45	0.71
	Lorient	28.84	52	SSW	6	o	29.15	+ .12	52	50	+ 2	W	5	o	7	52	48	0.59
	Rochefort ...	29.16	55	WSW	7	t	29.30	?	52	50	+ 6	WSW	7	r	4	59	46	0.28
	Belfort	?	39	E	3	c	?	?	36	7	− 6	E	4	c	*	55	31	0.20
	Lyons	29.46	53	S	3	b	29.56	+ .02	50	46	+ 8	SSW	1	bc	*	56	42	—
	Nice	29.78	51	SW	2	bc	29.69	+ .13	46	?	2	E	3	f	4	61	45	0.16
	Perpignan ...	29.47	51	S	1	b	29.59	+ .09	41	41	− 6	W	2	b	*	67	40	—
	Biarritz	29.34	59	SW	6	bc	29.46	+ .10	58	50	+ 4	SW	5	o	5	61	52	—
PENINSULA.	Corunna	*	*	*	*	*	29.26		55	51		NW	8	b	8	59	52	0.47
	Lisbon	29.73	56	WSW	4	bc	29.76	+ .12	51	50	− 5	Z	o	b	?	62	50	0.16

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Chart on p. 2.*

WEATHER CHARTS

for 8 a.m. on Sunday, 15th Nov., 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

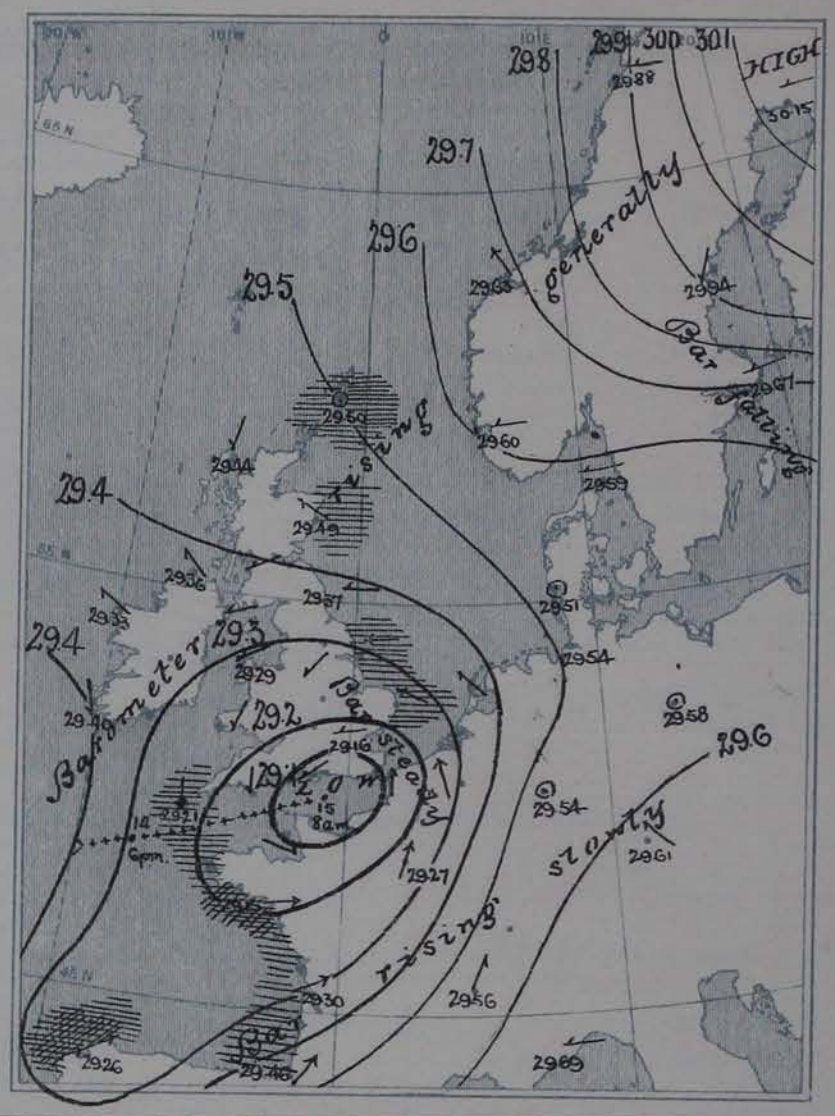
BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—

= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm

SEA DISTURBANCE—Where considerable, is shewn thus:

= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29 · 683
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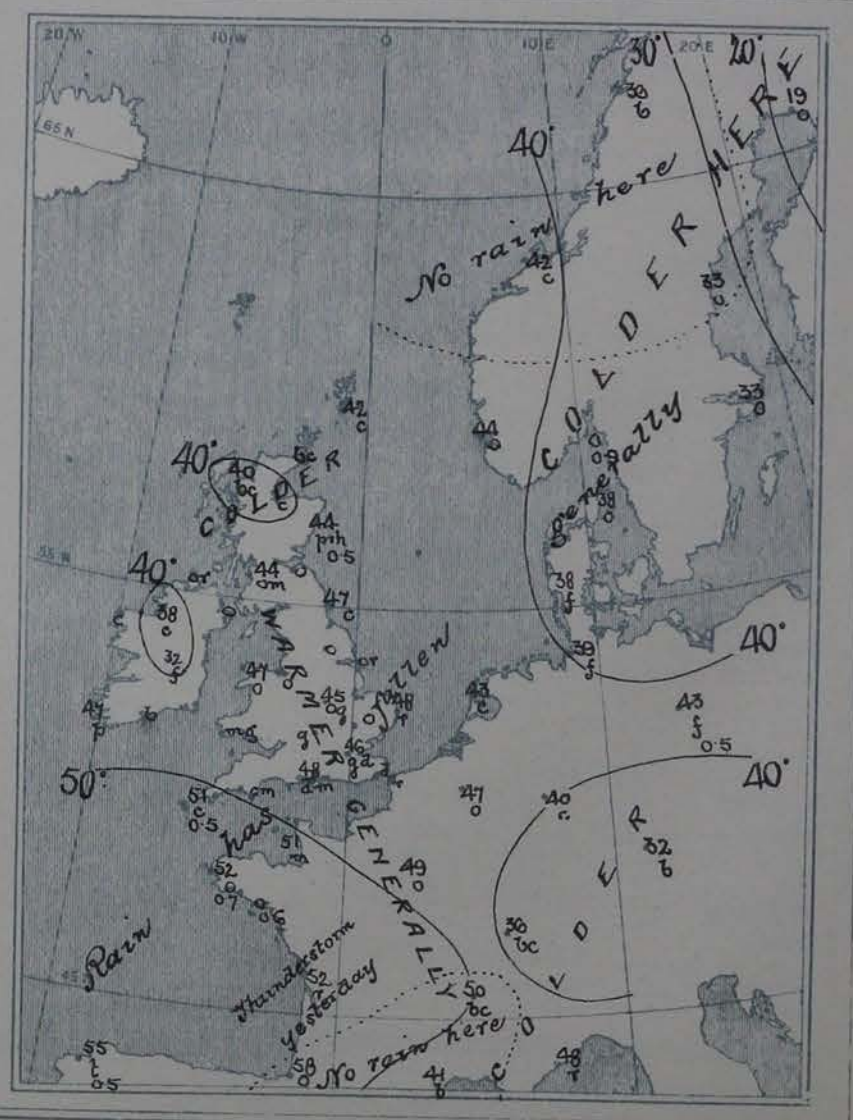

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(For the month of November.)

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LONDON	49 · 3	38 · 0	42 · 2	40 · 8	2 · 23
Oxford	48 · 2	37 · 6	41 · 2	40 · 0	2 · 31
Cambridge	48 · 6	35 · 8	40 · 7	39 · 9	2 · 01
Yarmouth	47 · 5	39 · 0	43 · 1	42 · 0	3 · 06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·1 ins: and upwards, in the north of Sweden, 29·7 ins: and upwards over the southern parts of the Spanish Peninsula. Lowest, 29·1 ins: and less, in a shallow depression lying over the English Channel. Gradients slight. Barometer rising generally, but falling a little in the southeast of England and also in Sweden.

TEMPERATURE — Highest, 58° at Biarritz, 55° at Corunna, 52° at Brest, Lorient, and Rochefort, and 51° at Jersey and Lisbon. Lowest, 19° at Haparanda, 32° at Parsonstown and Munich, 33° at Hernösand and Stockholm, and 35° at Nairn. Frost occurred last night over the central parts of Ireland and Scotland.

WIND — Light or moderate from the E^ly or NE^ly over Scandinavia and the northern, eastern, and central parts of our Islands. Moderate from the N^ly on our southwest coasts; fresh or strong from the W^ly or SW^ly in the west of France. S^ly over the central parts of France; SE^ly in the Netherlands and the southeast of England.

WEATHER — Cloudy or overcast in most parts of Western Europe, with fog over Denmark and North Germany, rain and mist over England, as well as at some of the French stations, and thunder at Corunna. Fine and bright in the extreme north of Scotland. Rain fell yesterday in most parts of our area, the largest amounts being 0·7 in: at Brest and 0·6 in: at Lorient. Thunder and lightning occurred at some of the French stations.

SEA — High at Lorient and rather rough at the mouth of the Channel, as well as on the north and east coasts of Great Britain

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 16th Novr 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	None issued	6 SCOTLAND WEST	None issued
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29.47	45	41	SE	6	r	4
Sumburgh Head	29.33	48	47	SE	3	bc	7
Stornoway	29.14	46	45	SW	4	o	4
Aberdeen	29.30	47	44	S	2	bc	5
Shields	29.27	42	41	S	1	m	3
Ardrossan	29.22	47	45	ENE	1	c	1
Malin Head ...	29.7	46	44	7	0	o	0
Mullaghmore ...	29.16	45	44	ENE	3	c	2
Belmullet	29.18	48	46	ESE	1	b	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.16	48	46	ESE	1	cg	2
Valencia	29.11	51	46	N	2	b	2
Scilly	28.89	50	50	ESE	6	r	7
Jersey	29.07	50	47	ESE	6	o	5
Dungeness	29.25	50	49	S	6	bc	5
London	29.25	52	48	ESE	2	c	*
Yarmouth	29.32	49	47	SSE	3	bc	3
Rochefort	29.18	55	51	SW	6	r	3

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and Russia and on the southern shores of the Mediterranean, fair, but not settled, over the greater part of the British Isles, and changeable over Europe as a whole, with rain in several places, snow at several Finnish stations. Heavy rain in many parts of France later, and smaller quantities in our Islands, and also in Germany, Italy, and Hungary.

Temperature fallen greatly over the British Islands and France, risen over Central Europe. Morning reading exceeding 60° over the Adriatic and many of the Mediterranean stations, much lower elsewhere; below 50° over France and the British Isles, below 40° over Central England, and lowest of all (1) 0° (Zero) Fahr. at Archangel and Moscow, 12° at Kharkov, 22° at St Petersburg and Kuopio, 23° at Riga; (2) 29° at Valencia, 36° at Donaghadee and Shields, 38° at York. Rising to a little above 50° over England later, to 60° and more in the south of France, and to 70° and more in several parts of Italy and Algeria.

Wind mainly SE. over Gt Britain and northwestern Europe generally, and blowing rather strongly on our southeastern coast and a gale at Skudesnaes and in the Skager Rack; very light and variable in Ireland, mainly SW over the Mediterranean, and SE (strong) in the Adriatic, very light and variable over Central Europe. Becoming more N in Ireland later, W over Austria, and S to SE over Poland and Western Russia

Barometer highest 30.5 ins. and more to 30.0 ins. over Russia, and exceeding 29.9 ins. over Algeria. Lowest, 29.1 ins. and less over the northwest of Scotland, and 29.0 ins. and less, in a rather complex, but deepening, depression off our southeastern coasts. Gradients very steep over the Iberian Peninsula. Rising in the north and west of our Islands all day, falling over France. Depression off our southwest coasts moving eastwards.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT.

for Monday, 16th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. **R. H. SCOTT**, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Wet.	Difference from 8 a.m. yesterday.	Wind. Direc.	Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30.20	18	SE	2	o	30.16	+.01	6	5	−13	NE	2	b	*	28	?	-
	Hernösand ...	29.89	33	NE	4	o	29.81	−.13	30	28	−3	ENE	6	o	*	39	30	0.04
	Stockholm ...	29.51	32	NE	2	o	29.46	−.21	38	33	0	NNW	2	r	*	36	30	0.32
	Wisby														*			
	Bodö	29.92	33	E	2	b	29.89	+.01	32	28	−4	E	2	b	1	37	28	-
	Christiansund	29.65	43	SE	3	c	29.69	+.06	41	40	−1	ESE	1	r	2	43	41	0.08
	Skudesnaes ...	29.69	42	E	2	o	29.69	+.09	37	35	−7	E	1	o	2	45	36	-
	Christiania Fjord (Færder)	29.68	37	NNE	5	o	29.66	−.03	34	33	−3	NNE	5	r	2	37	34	-
	Skagen (The Scaw)	29.62	38	ENE	1	o	29.62	+.03	36	32	−2	NE	1	c	o	39	34	-
	Fanö	29.57	39	ENE	4	c	29.57	+.06	37	36	−1	ENE	4	o	*	43	36	-
BRITISH ISLANDS.	Sumburgh Head	29.55	45	S	1	r	29.61	+.11	44	43	+2	S	1	c	4	49	41	0.13
	Stornoway ...	29.52	41	W	o	b	29.54	+.10	35	35	−5	NE	2	b	2	47	31	-
	Wick	29.52	36	S	1	b	29.60	+.11	39	39	−5	N	2	c	4	50	33	0.10
	Nairn	29.54	32	W	o	bc	29.61	+.17	35	35	0	W	o	f	1	47	30	0.01
	Aberdeen ...	29.55	46	E	2	c	29.64	+.15	45	42	+1	SE	3	bc	4	49	42	0.23
	Leith	29.49	45	NE	2	r	29.60	+.18	35	35	−9	ESE	1	cm	*	49	34	0.07
	Shields	29.42	49	NE	3	c	29.51	+.14	47	44	0	NE	4	c	5	49	44	-
	Spurn Head ...	29.25	49	ENE	6	o	29.39	+.14	48	47	+1	NE	5	r	5	48	46	0.12
	York	29.33	48	NNE	2	o	29.48	+.17	47	45	0	ENE	2	o	*	48	44	0.12
	Loughborough	29.24	47	NNE	2	r	29.36	+.15	46	45	+1	N	1	cm	*	50	45	0.41
	Ardrossan ...	29.47	43	ENE	1	bm	29.58	+.20	41	40	−3	ENE	1	cmw	0	46	39	-
	Malin Head ...	29.48	47	ENE	4	om	29.53	+.17	42	41	−3	SE	3	bcm	2	47	41	0.03
	Mullaghmore ...	29.49	45	N	2	b	29.53	+.18	40	39	+2	ESE	3	bcw	2	46	35	-
	Belmullet ...	29.20	42	N	1	b	29.51	+.18	40	39	−3	SSE	1	bc	*	47	39	0.04
	Donaghadee ...	29.44	49	E	4	b	29.55	+.19	47	45	0	E	4	b	2	49	45	0.01
	Liverpool (Bidston)	29.33	46	NE	2	o	29.49	+.20	46	43	+2	NE	3	o	3	47	44	0.14
	Holyhead ...	29.33	47	NE	4	gmr	29.50	+.21	47	45	0	ENE	4	b	4	50	45	0.49
	Parsonstown ...	29.45	39	W	o	f	29.57	+.20	38	37	+6	W	o	f	*	39	31	-
	Valencia	29.48	48	NNW	2	c	29.57	+.17	43	42	−4	NE	1	o	1	50	36	0.02
	Roche's Point ...	29.43	42	N	3	bc	29.60	+.24	38	38	−4	N	3	f	4	48	37	0.02
	Pembroke (St. Ann's Hd.)	29.32	46	NW	4	c	29.51	+.27	47	46	+1	N	2	b	1	51	43	0.03
	Scilly	29.35	50	NW	5	c	29.55	+.34	49	47	+5	NW	4	c	5	51	47	-
	Prawle Point ...	29.32	46	NNW	2	o	29.50	+.35	46	45	−1	NW	3	bc	2	51	44	0.01
	Jersey (St. Aubin's)	29.30	51	NW	2	cgm	29.50	+.40	50	46	−1	W	3	bc	3	55	47	0.15
	Hurst Castle ...	29.28	48	NW	4	cpd	29.42	+.30	47	47	−1	NNW	3	cm	2	51	45	-
	Dungeness ...	29.15	49	W	3	op	29.36	+.24	47	47	−2	W	4	c	4	52	46	0.56
	London	29.18	48	N	2	odp	29.36	+.20	46	45	0	WSW	1	od	*	50	45	0.14
	Oxford	29.26	46	NE	1	r	29.35	+.17	46	46	+1	NW	2	ogd	*	48	45	0.21
	Cambridge ...	29.21	46	W	0	0	29.37	+.16	45	45	−1	SW	1	o	*	48	44	0.30
	Yarmouth ...	29.18	48	SE	5	ogr	29.36	+.11	46	45	−2	W	0	cf	4	49	44	0.21
GERMANY & HOLLAND.	Cuxhaven ...	29.51	41	E	4	f	29.51	−.03	43	42	+4	ESE	2	o	*	44	39	0.36
	Berlin	29.60	42	S	3	c	†29.69	+.05	40	39	−3	SSE	2	c	*	46	37	-
	Wiesbaden ...	*	*	*	*	*	†29.60	+.06	45	44	+5	W	o	r	*	48	39	0.04
	Munich	29.69	36	W	o	bc	†29.75	+.14	37	36	+5	SW	4	c	*	48	28	-
	The Helder ...	29.37	45	ESE	1	bc	29.43	+.04	45	44	+2	ESE	1	f	1	45	43	0.08
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.47	+.19	45	44	−2	SSW	3	r	*	52	44	0.04
	Cape Gris Nez																	
	Paris	29.38	50	S	4	o	29.52	+.25	47	46	−2	SSW	3	c	*	53	46	-
	Brest	?	51	WNW	4	o	?	?	51	49	−1	WNW	4	c	3	54	46	-
	Lorient	29.40	52	NW	4	c	29.60	+.45	50	47	−2	WNW	3	b	5	54	46	0.08
	Rochefort ...	29.40	52	WSW	6	r	29.58	+.28	49	47	−3	NW	4	r	*	55	46	0.47
	Belfort														*			
	Lyons	29.70	44	W	3	r	29.69	+.13	39	34	−11	W	3	o	*	50	34	0.24
	Nice	29.75	52	E	1	b	29.77	+.08	48	45	0	E	2	c	3	59	45	0.28
	Perpignan ...	29.64	49	SE	2	b	29.84	+.25	41	39	0	W	2	b	*	61	38	-
	Biarritz	29.64	57	W	5	o	29.76	+.30	55	49	−3	WSW	6	r	5	61	48	0.24
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	29.86	55	NNW	5	b	30.03	+.29	54	50	+3	NW	3	bc	?	59	51	0.16

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Monday, 16th Nov.ᵇᵉʳ, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch.
Changes since previous morning are stated in words.

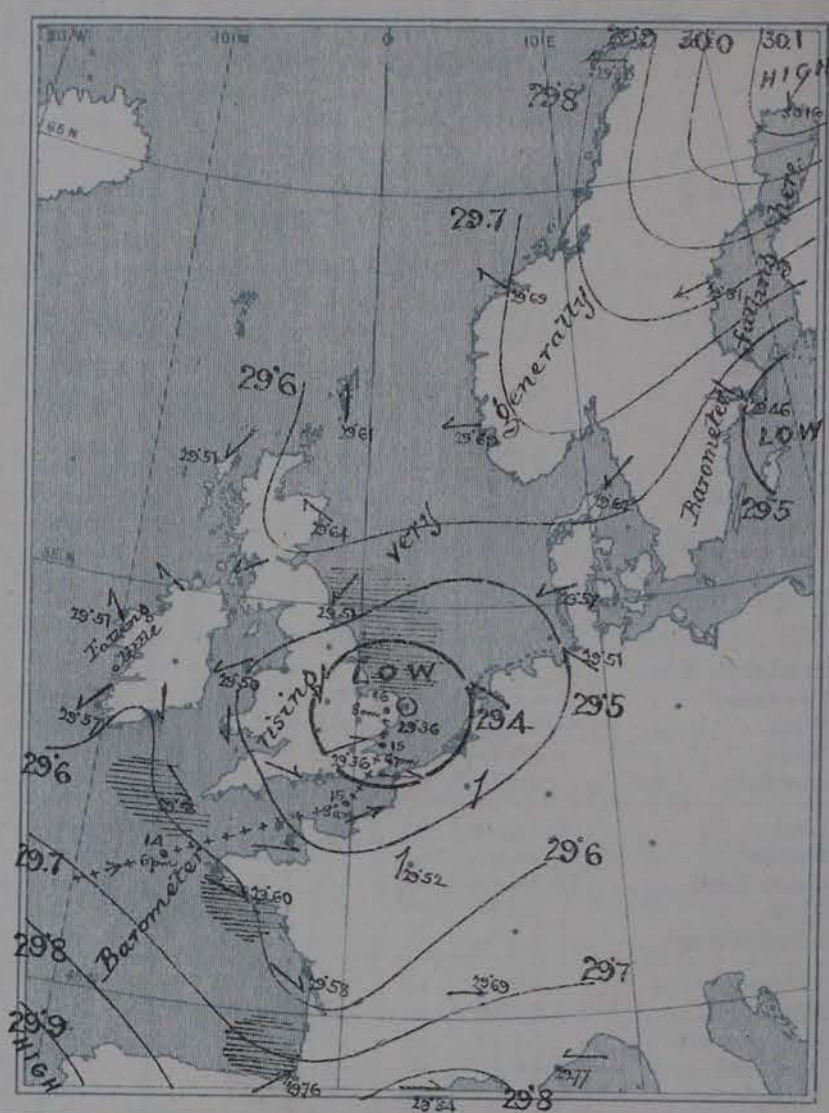
WIND - Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29 · 683
Stornoway	29 · 699
Wick	29 · 722
Nairn	29 · 738
Aberdeen	29 · 758
Leith	29 · 789
Shields	29 · 813
Spurn Head	29 · 842
York	29 · 846
Loughborough	29 · 877
Ardrossan	29 · 791
Mullaghmore	29 · 780
Donaghadee	29 · 810
Holyhead	29 · 835
Liverpool	29 · 851
Parsonstown	29 · 847
Valencia	29 · 864
Roche's Point	29 · 865
Pembroke	29 · 864
Scilly	29 · 897
Prawle Point	29 · 914
Jersey	29 · 928
Hurst Castle	29 · 902
Dover	29 · 893
LONDON	29 · 898
Oxford	29 · 896
Cambridge	29 · 887
Yarmouth	29 · 865



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale

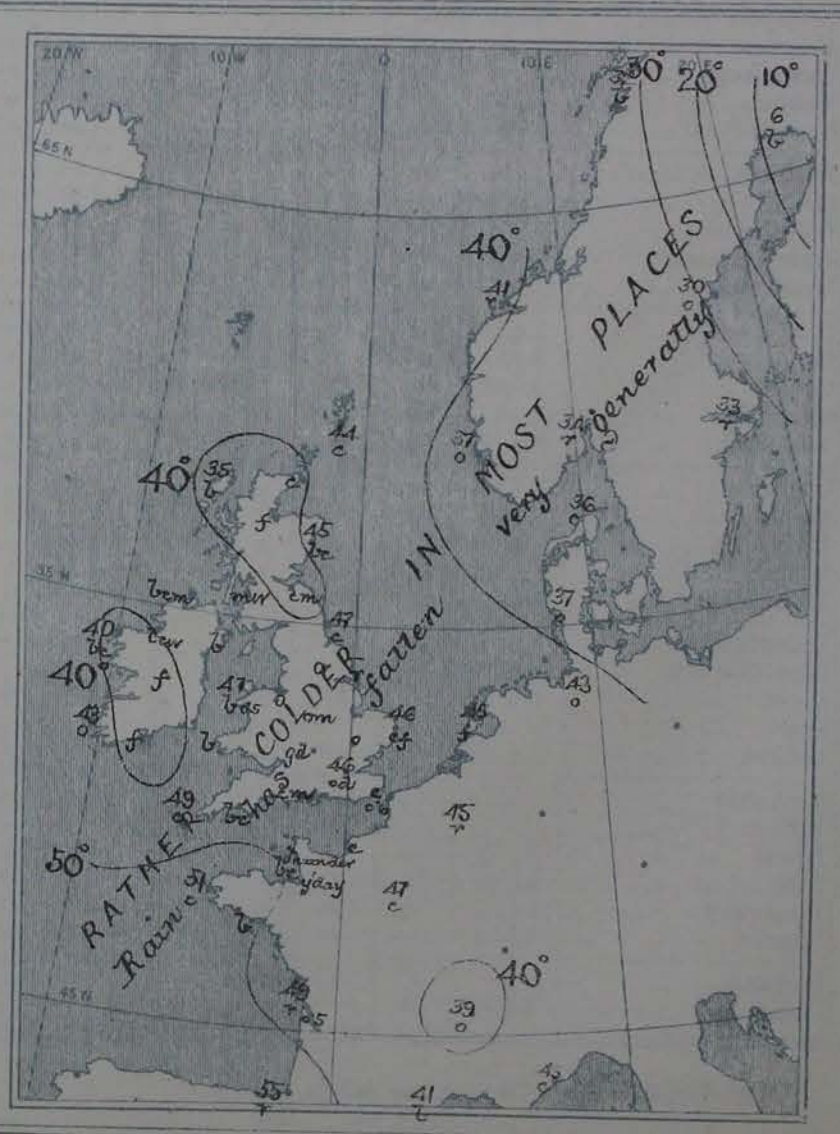
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. Inches.
Sumburgh Head	45 · 6	37 · 8	42 · 0	40 · 3	4 · 16
Stornoway	46 · 2	37 · 0	41 · 7	40 · 7	4 · 70
Wick	46 · 1	36 · 1	41 · 4	39 · 8	2 · 93
Nairn	45 · 3	35 · 7	39 · 8	38 · 2	2 · 29
Aberdeen	46 · 2	36 · 5	40 · 5	38 · 7	3 · 14
Leith	48 · 1	37 · 0	41 · 7	40 · 0	2 · 20
Shields	47 · 3	37 · 9	42 · 1	40 · 5	2 · 61
Spurn Head	46 · 8	40 · 2	43 · 2	41 · 9	2 · 40
York	47 · 5	36 · 4	40 · 6	39 · 3	2 · 19
Loughborough	48 · 0	36 · 6	40 · 5	39 · 3	2 · 24
Ardrossan	47 · 8	39 · 1	43 · 1	41 · 3	3 · 88
Mullaghmore	49 · 6	41 · 2	45 · 1	43 · 1	4 · 48
Donaghadee	48 · 3	39 · 2	43 · 2	42 · 0	3 · 20
Holyhead	49 · 7	42 · 9	45 · 8	44 · 0	3 · 88
Liverpool	47 · 8	39 · 6	42 · 5	40 · 7	2 · 96
Parsonstown	49 · 1	37 · 1	41 · 9	40 · 2	2 · 83
Valencia	52 · 3	43 · 0	47 · 4	45 · 5	5 · 42
Roche's Point	51 · 1	42 · 0	46 · 1	44 · 5	4 · 62
Pembroke	50 · 1	43 · 8	46 · 9	45 · 1	4 · 04
Scilly	52 · 4	46 · 7	50 · 0	48 · 0	3 · 72
Prawle Point	51 · 1	41 · 9	46 · 2	44 · 7	3 · 20
Jersey	51 · 9	44 · 1	47 · 7	45 · 8	4 · 30
Hurst Castle	50 · 5	40 · 6	44 · 9	44 · 0	3 · 05
Dover	49 · 3	40 · 6	44 · 3	42 · 8	3 · 48
LONDON	49 · 3	38 · 0	42 · 2	40 · 8	2 · 23
Oxford	48 · 2	37 · 6	41 · 2	40 · 0	2 · 31
Cambridge	48 · 6	35 · 8	40 · 7	39 · 9	2 · 01
Yarmouth	47 · 5	39 · 0	43 · 1	42 · 0	3 · 06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·1 ins. and upwards, in the north of Sweden; 30·0 ins. and upwards in Portugal.
Lowest, 29·4 ins. and less, in a shallow depression lying over the central and southeastern parts of England; 29·5 ins. and less in another disturbance lying over the Baltic.
Gradients slight and irregular. Barometer rising in most parts of Western Europe, but falling slightly in the extreme west of Ireland. Falling also in Sweden.

TEMPERATURE

Highest, 55° at Biarritz, 54° at Lisbon, 51° at Brest, 50° at Jersey and Lorient, and 49° at Rochefort.
Lowest, 6° at Haparanda, 30° at Hernösand, 32° at Åbo, 33° at Stockholm, 34° at Tarnow, and 35° at Christiansund, Nairn, and Leith.
The maxima registered yesterday were above 50° at many of our southern stations, the highest reading of all being 55° at Jersey.

WIND

E. or NE. over Scandinavia, Denmark, and the northern parts of Great Britain and also in the south of Ireland, but SE. in the north of Ireland.
Light or moderate from the W. or NW. over the south of England and the west of France.
Light from the SE. over Central France, variable in the south of that country.

WEATHER

Fine over the west and north of our Islands generally, but with fog in places; fine also in the north of Scandinavia. Dull elsewhere with mist and drizzling rain over England. Rain falling in the west of France and at some of the Scandinavian stations.
Rain fell yesterday in most parts of the United Kingdom, the largest amount being 0·6 in. at Dungeness. Distant thunder was heard at Jersey last evening.

SEA

Rather rough off the northeast of England, as well as at Scilly, Lorient, and Biarritz, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the southeast of England is gradually filling up, and the weather in that district is likely to improve slowly. In the west of Ireland there are some slight indications of the advance of another shallow disturbance from the westward.

FORECASTS

For the 24 hours ending at NOON on 17th Nov. 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NE. to E. winds, light; fair generally.	6 SCOTLAND WEST	E. to SE. winds, light or moderate; fair to dull and some rain.
1 SCOTLAND EAST	E. winds, light; fair to cloudy and some rain.	7 ENGLAND N.W.	
2 ENGLAND N.E.	NE. and N. winds, light; cloudy, some rain.	8 ENGLAND S.W.	NW. to W. winds, light; fair generally
3 ENGLAND EAST	Light breezes, chiefly W.; dull and misty at first with slight rain then fair.	9 IRELAND NORTH	S. and SE. winds, moderate; fair to dull and rainy.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...							
Sumburgh Head							
Stornoway	29.49	47	47	SE	3	b	3
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29.41	47	45	ESE	4	c	3
Mullaghmore ...							
Belmullet	29.43	46	45	E	1	bc	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.32	47	46	ENE	3	rgm	2
Valencia							
Scilly							
Jersey	29.21	54	50	NNW	3	c	3
Dungeness	29.12	49	49	NSW	1	r	2
London							*
Yarmouth							
Rochefort	29.32	53	51	NSW	6	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather fine over Central Russia, Hungary, South Germany and the southern side of the Mediterranean, foggy over southern Russia and Holstein, unsettled over Europe as a whole. Much cloud in most regions, rain at several stations. Rainy, changeable weather later over the greater part of the United Kingdom and France – especially at Dungeness, thunder at Jersey and general condition very unpleasant.

Temperature not changing much. Morning readings above 60° over the southern half of the Mediterranean, and above 50° in the south and west of France and at Scilly; rather lower over England and the north of France and in Austria, much lower elsewhere. Lowest of all (1) 1° F. at Moscow, 13° at St Petersburg, 17° both at Kharkov and Archangel, 18° at Uleaborg, 25° at Riga; (2) 32° at Parsonstown, 35° at Nairn. Rising to 60° and more in the south of France later, to 50° and more over the north of France and south of England, and to 50° even at Wick.

Wind mainly E^ly and fresh over northern Europe, E^ly to N^ly and light over the British Islands; NW^ly to SW^ly over France and W^ly to S^ly and SE^ly in north Germany; variable but chiefly W^ly over the Mediterranean, and S^rn Europe, SE^ly over the Adriatic. Becoming N^ly to NW^ly over England later and still more W^ly in the Channel, but not increasing.

Barometer Highest 30.3 ins. and more to 29.9 ins. in a large anticyclone over Russia, 30.0 ins. and more in another over Asia Minor. Lowest 29.4 ins. and less in a depression over the Baltic; 29.1 ins. and less in another over the English Channel, and 29.3 ins and less in another (secondary) over the Bay of Biscay, not far from Corunna. The channel depression moving northeastwards to the mouth of the Thames later and barometer rising a little generally.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD

FROM THE 8th TO 14th NOV. 1891.

The weather of last week was exceedingly rough and unsettled, especially on the 11th, when a violent gale swept over nearly the whole of northwestern Europe. Rainfall was frequent, and at times very heavy, and the fluctuations in temperature were rather considerable.

At the commencement of the period a large anticyclone was moving away from our Islands in an easterly direction, while a large and rather deep depression was advancing towards our extreme northwest coasts. In the south^rn and eastern parts of the Kingdom the weather was mostly fair and quiet but in the west and north strong S^ly winds or gales from the S^wd were setting in with heavy rain. On the 9th the depression in the northwest extended over the entire Kingdom, and although the winds were mostly of little strength, the weather became rainy in nearly all districts, the fall being somewhat heavy in the south of England.

On the morning of the 10th the depression was passing away to the northeastward but later in the day a deeper disturbance began to approach our southwest coasts and in the course of the 11th a cyclonic system of great intensity with minimum readings considerably below 28.4 ins. travelled steadily northeastwards across England. The wind now rose to a gale on nearly all our coasts, with heavy rain in the west and south, and in the Channel a violent storm was experienced from the S^wd and SW^wd. The depression ultimately travelled away to the northward of our Islands, but on the 12th a new disturbance of equal depth appeared off our southwest coasts. The latter system, however, passed away in a sudden and very remarkable manner over the Atlantic and although a strong to whole gale from the SE^wd was experienced in the southwest the bad weather did not spread eastward or northward.

At the close of the week a shallow depression was still lying to the southwest of England but the weather was improving in most districts, the wind being moderate from the SE^wd. Temperature was inclined to fall and the general distribution of pressure seemed to be undergoing a change.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS:—*For* Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Tuesday 17th November 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. **R. H. SCOTT**, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30.13	6	NE	2	bc	30.07	-.09	15	14	+9	NE	2	c	*	21	3	—
	Hernösand ...	29.83	31	NE	6	d	29.76	-.02	29	29	-1	NE	4	d	*	34	25	0.35
	Stockholm ...	29.67	32	Z	0	o	29.79	+.27	30	30	-3	ENE	2	d	*	36	30	0.08
	Wisby	29.38	37	NNW	4	p	29.58		36	34		WSW	4	c	*	37	30	0.35
	Bodö	29.88	28	E	4	b	29.87	-.02	29	25	-5	E	4	b	2	32	25	—
	Christiansund	29.69	40	ESE	2	o	29.68	-.01	37	35	-4	ESE	2	c	2	41	36	0.16
	Skudesnaes ...	29.74	41	Z	0	o	29.78	+.04	42	41	+5	ENE	1	o	2	43	37	0.04
	Christiania Fjord (Færder)	29.71	35	N	4	o	29.74	+.08	32	30	-2	N	4	c	2	?	32	—
	Skagen (The Scaw)	29.69	37	E	1	o	29.70	+.08	34	33	-4	NE	1	o	o	39	?	0.43
	Fanö	29.64	36	ENE	2	p	29.74	+.17	33	32	-4	N	2	c	*	39	32	0.04
BRITISH ISLANDS.	Sumburgh Head	29.64	45	S	2	o	29.65	+.04	42	40	-2	SE	2	o	3	46	40	0.06
	Stornoway ...	29.54	43	W	2	bc	29.46	+.08	44	44	+9	S	6	p	6	49	38	0.20
	Wick	29.68	46	S	3	bc	29.58	-.02	44	43	+5	S	5	c	3	?46	35	0.03
	Nairn	29.61	31	Z	0	cm	29.55	-.06	36	35	+1	E	1	om	1	37	26	0.05
	Aberdeen ...	29.67	43	SSE	2	c	29.64	0.0	44	41	-1	NE	3	c	4	46	41	0.03
	Leith	29.65	44	ENE	6	c	29.61	+.01	42	41	+7	SSE	1	p	*	48	34	0.05
	Shields	29.63	45	E	2	o	29.64	+.13	44	43	-3	SE	2	p	3	47	39	0.04
	Spurn Head ...	29.54	48	NE	5	o	29.67	+.28	46	45	-2	SSE	3	bc	4	48	44	0.04
	York	29.58	46	ENE	1	m	29.67	+.19	44	44	-3	E	1	p	*	48	39	0.11
	Loughborough	29.56	47	NW	1	o	29.67	+.31	44	43	-2	SSE	2	ofm	*	49	44	0.03
	Ardrossan ...	29.60	41	ENE	1	bm	29.60	+.02	44	43	+3	SSW	1	c	o	?48	38	0.29
	Malin Head ...	29.52	44	SE	3	om	29.60	+.07	42	40	0	SW	4	of	2	47	41	0.14
	Mullaghmore ...	29.51	44	SSE	5	om	29.65	+.12	41	39	+1	SW	4	bc	3	47	39	0.16
	Belmullet ...	29.48	44	S	3	p	29.66	+.15	44	41	+4	W	3	c	*	47	36	0.39
	Donaghadee ...	29.60	47	SE	4	p	29.66	+.11	35	35	-12	W	3	b	1	50	31	0.43
	Liverpool (Bidston)	29.63	44	NE	1	c	29.66	+.17	45	44	-1	SW	2	bc	3	47	41	0.15
	Holyhead ...	29.62	45	Z	0	c	29.70	+.20	45	43	-2	WNW	4	bc	4	50	44	0.47
	Parsonstown ...	29.56	42	Z	0	bc	29.75	+.18	38	37	0	Z	0	bc	*	44	36	0.11
	Valencia	29.38	49	WNW	4	ou	29.82	+.25	46	42	+3	WNW	3	c	3	?51	42	0.17
	Roche's Point ...	29.61	50	WSW	2	c	29.79	+.19	45	43	+7	W	3	bc	4	51	35	0.16
	Pembroke (St. Ann's Hd.)	29.64	48	E	1	c	29.78	+.27	49	46	+2	WNW	4	bc	4	52	46	0.10
	Scilly	29.66	51	WSW	4	bc	29.83	+.28	50	48	+1	WNW	4	cf	4	52	47	0.04
	Prawle Point ...	29.68	48	W	3	c	29.82	+.32	47	47	+1	WNW	2	of	2	52	42	0.03
	Jersey (St. Aubin's)	29.68	51	WNW	3	mcq	29.83	+.33	52	50	+2	SW	4	om	3	54	48	0.01
	Hurst Castle ...	29.62	48	WNW	3	cm	29.78	+.36	50	50	+3	WSW	3	cp	2	51	43	0.02
	Dungeness ...	29.52	47	WNW	2	m	29.79	+.43	49	48	+2	W	1	ow	1	50	44	0.01
	London	29.56	49	WSW	1	og	29.78	+.42	44	44	-2	SSW	2	pofm	*	51	41	0.02
	Oxford	29.66	47	NW	1	fd	29.74	+.32	44	44	-2	S	2	ofm	*	51	41	0.01
	Cambridge ...	29.58	46	N	1	o	29.75	+.38	43	43	-2	S	1	o	*	47	40	0.03
	Yarmouth ...	29.49	48	Z	0	cm	29.72	+.36	45	44	-1	W	2	cf	4	49	41	0.01
GERMANY & HOLLAND.	Cuxhaven ...	29.55	44	S	1	f	29.69	+.18	44	44	+1	SW	1	f	*	47	42	0.06
	Berlin	29.67	44	S	2	o	29.75	+.12	43	43	+3	SW	2	p	*	48	40	—
	Wiesbaden ...	*	*	*	*	*	29.84	+.24	45	44	0	Z	0	o	*	50	45	0.12
	Munich	29.80	40	SW	4	p	29.76	+.21	39	37	+2	SW	5	c	*	50	37	0.35
	The Helder ...	29.57	45	S	1	b	29.71	+.28	45	45	0	S	1	c	1	48	39	0.04
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.84	+.37	45	45	0	SW	2	o	*	50	45	0.04
	Cape Gris Nez																	
	Paris	29.68	48	SSW	2	o	29.54	+.42	41	41	-6	S	2	c	*	53	41	?
	Brest	29.76	52	WNW	2	c	29.86	?	52	52	+3	WSW	1	f	o	55	52	0.04
	Lorient	29.76	52	WNW	3	bc	29.85	+.25	54	54	+4	SW	2	fm	4	54	48	0.04
	Rochefort ...	?	52	NW	4	o	29.89	+.31	54	53	+5	W	4	f	*	55	50	0.16
	Belfort	29.88	43	W	3	o	?	?	45	41	+6	W	3	o	*	54	39	0.16
	Lyons	29.89	44	S	2	bc	30.12		43	41		S	1	p	*	51	42	—
	Nice	29.80	53	SW	2	b	29.97	+.20	51	40	+3	NE	2	b	o	53	48	—
	Perpignan ...	29.96	53	W	2	o	30.12	+.33	43	42	+2	W	2	b	*	64	41	—
	Biarritz	29.95	57	W	3	o	30.10	+.34	?58	53	+3	SW	3	c	2	?	48	0.16
PENINSULA.	Corunna	*	*	*	*	*	30.28	+.25	50	49	-4	NNE	2	b	2	61	48	—
	Lisbon	30.19	55	WNW	2	c												

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Tuesday, 17th Nov.r, 1891.

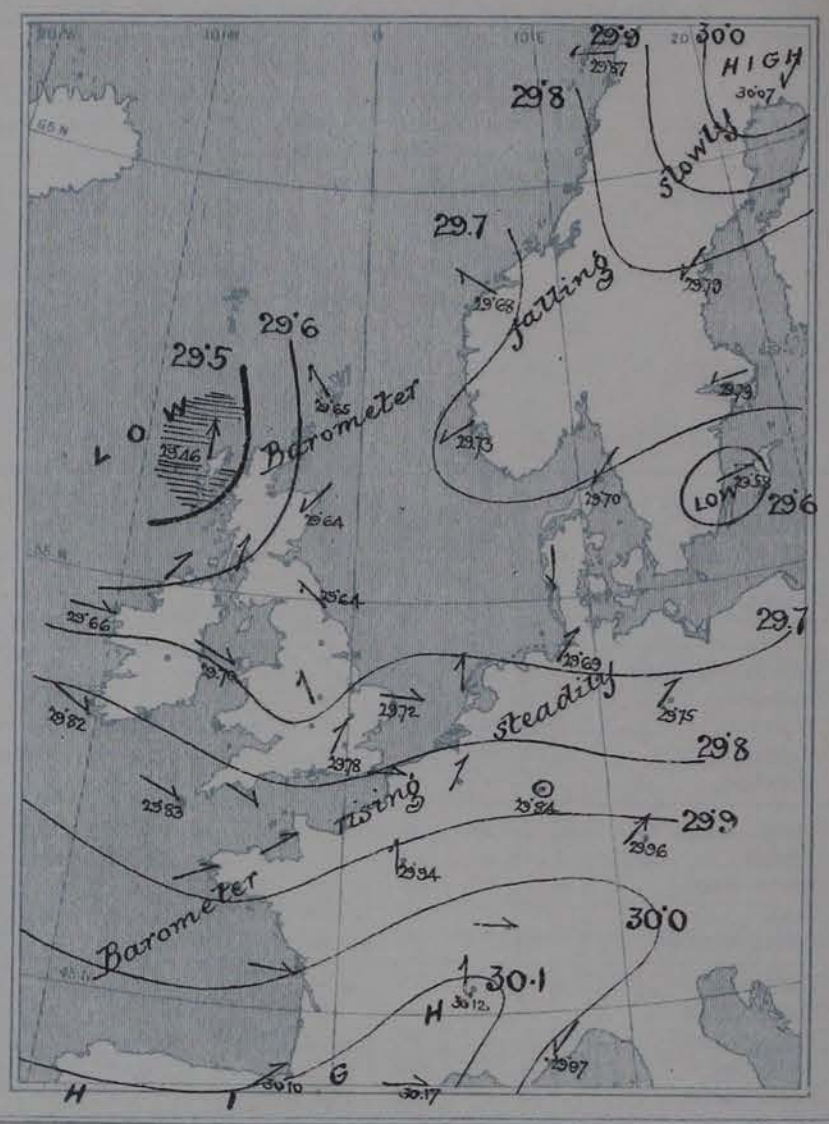
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch.
Changes since previous morning are stated in words.

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus:—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8·0 a.m. for the month of November
During the 20 Years: 1871—1890.

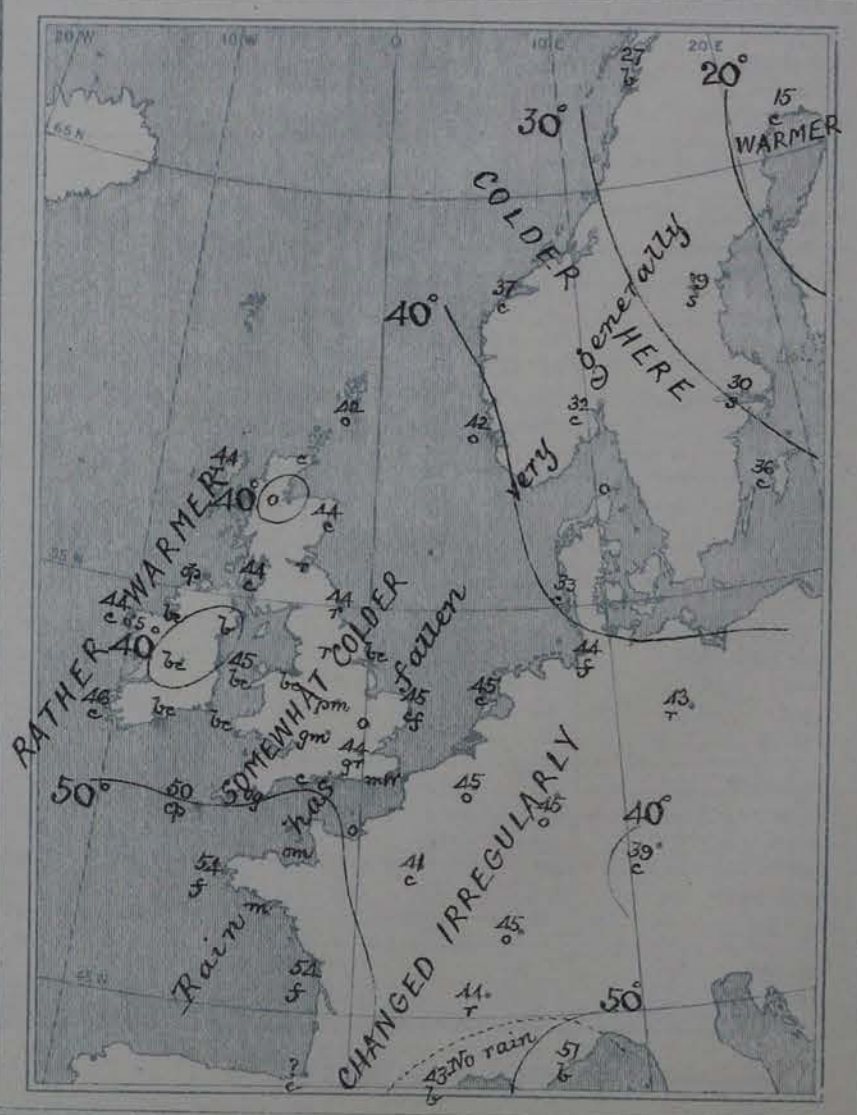
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·819
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·869
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	at 8 a.m. Wet.	RAINFALL (Inches).
Sumburgh Head	45·6	37·8	42·6	40·3	4·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	46·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·0	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·4	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·0	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·9	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 30·0 ins: and more to 29·7 ins: over Scandinavia; (2) 30·2 ins: and more to 30·0 ins: over Spain and the southwest of France.
Lowest, 29·5 ins: and less, off the northwest of Scotland, and below 29·7 ins: over England, the North Sea and Baltic.
Gradients are slight and very irregular.
Barometer rising in the southern districts, falling in the north.

TEMPERATURE

Highest, 54° at Brest and Rochefort, 51° at Nice, 50° at Lisbon, Scilly, and Hurst Castle.
Lowest, 15° at Haparanda, 27° at Bodö, 29° at Hernösand.
It is above 40° at all our own stations excepting Parsonstown, where the reading is 38°.

WIND

NE$^{\frac{1}{2}}$ to E$^{\frac{1}{2}}$ over Scandinavia, S$^{\frac{1}{2}}$ to W$^{\frac{1}{2}}$ in our Islands, W$^{\frac{1}{2}}$ over France, SW$^{\frac{1}{2}}$ over Germany, but is NE$^{\frac{1}{2}}$ at Nice and also at Lisbon.

WEATHER

Fine in several parts of Norway, Scotland, and Ireland, cloudy elsewhere, gloomy and rainy in several localities, foggy at Cuxhaven, snow is falling at Stockholm and Hernösand. Rain has fallen generally — most at the Scaw and in the north of Ireland; the amounts reported, however, are all less than half an inch.

SEA

Rough in the Minch, moderate on our western coasts and at Yarmouth, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure over the British Islands and northwestern Europe generally is complex; high pressure areas being found both over northern and southwestern Europe, and low pressure areas over our Islands, the North Sea and Baltic. Gradients are slight and variable, and the changes in progress somewhat irregular; but the southern high pressure system seems to be spreading northwards. The conditions are not of a threatening character as far as wind is concerned but a continuation of unsettled weather is probable.

FORECASTS

For the 24 hours ending at NOON on 18th November 1891.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S$^{\frac{1}{2}}$ and SW$^{\frac{1}{2}}$ winds; unsettled, rain at times
1 SCOTLAND EAST	
2 ENGLAND N.E.	Same as No 5.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	S$^{\frac{1}{2}}$ to W$^{\frac{1}{2}}$ breezes; rainy and unsettled then finer.
6 SCOTLAND WEST	Wind mainly SW$^{\frac{1}{2}}$, weather changeable, some showers.
7 ENGLAND N.W.	
8 ENGLAND S.W.	W$^{\frac{1}{2}}$ and SW$^{\frac{1}{2}}$ breezes, moderate, some rain.
9 IRELAND NORTH	Same as Nos 6 and 7.
10 IRELAND SOUTH	Same as No 8.
WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. D.	THER. W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29.71	42	37	Z	0	o	2
Sumburgh Head	29.62	45	44	S	2	o	4
Stornoway	29.55	49	47	S	2	b	3
Aberdeen	29.65	44	41	SE	3	bc	4
Shields	29.58	46	43	NE	4	o	5
Ardrossan	29.59	48	44	ENE	1	bm	1
Malin Head ...	29.52	47	44	SE	4	b	o
Mullaghmore ...	29.52	47	44	SSE	4	cm	2
Belmullet	29.49	44	43	SE	2	o	*

	BAR.	THER. D.	THER. W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.58	49	46	ENE	3	b	2
Valencia	29.56	51	48	SE	4	cm	4
Scilly	29.62	52	50	NNW	4	bc	4
Jersey	29.60	52	50	W	3	cfq	3
Dungeness	29.42	49	49	NNW	2	m	3
London	29.45	48	43	SW	1	bgm	*
Yarmouth	29.42	49	43	SSE	1	c	4
Rochefort	29.68	54	51	NNW	4	c	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather fine in the west and north of our Islands generally, but with fog in many places; fine also in the north of Scandinavia as well as at some of the Spanish and Italian stations. Dull elsewhere with fog in many parts of central and eastern Europe; rain over England, the Netherlands, the southwest of France, and the southern parts of Scandinavia, and snow at Helsingfors. Slight improvement taking place over England later, but rain falling in Ireland and the west of Scotland.

Temperature highest 66° at Malta, 65° at Palermo, 64° at Brindisi, and 63° at Roma and La Calle, above 55° at most of the Adriatic and Mediterranean stations, and above 50° in the northwest of France. Lowest 6° at Haparanda, 7° at Moscow, 8° at Wesaborg, 12° at Archangel, 14° at Kuopio, and 16° at St Petersburg, below the freezing point at nearly all the Russian stations, as well as over a considerable portion of Scandinavia, and as low as 35° at Stornoway and Nairn. Rising during day to 50° or a little above over the southern parts of the United Kingdom; exceeding 60° in Spain and the south of France.

Wind E or NE over all the more northern parts of Great Britain, as well as over Scandinavia, Denmark, and northern Russia; SE in the north of Ireland. Light or moderate from W. or NW. over the south of England, the west and south of France and the greater part of Spain. S or SW over Belgium and central France, SE over north Germany and also in Italy, light and variable over Austria and the south of Russia. Subsequently shifting to the S. in the north and northwest of our Islands.

Barometer highest 30·4 in. and upwards (in an anticyclone lying over northern Russia, 30·0 in. and upwards) in another system lying to the southwestward of the Spanish Peninsula. Lowest 29·4 in. and less in a shallow depression lying over the central and southeastern parts of England; 29·5 in. and less in another disturbance to the southward of Stockholm. Depression over the southeast of England filling up slowly during day, but new disturbance approaching the west of Ireland in evening.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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DAILY WEATHER REPORT.

for Wednesday, 18th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Wet.	Difference from 8 a.m. yesterday.	Wind. Direc.	Force. (0 to 12.)	Weather.	Sea. (0 to 6.)	PAST 24 HOURS. Shade Temp. Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30·06	19	ENE	2	0	30·12	+·05	21	21	+6	ENE	4	0	*	21	7	-
	Hernösand ...	29·82	30	NNE	2	S	29·93	+·14	30	29	+1	NNE	2	0	*	32	25	0·32
	Stockholm ...	29·69	33	2	0	r	29·76	+·03	33	32	+3	NNW	1	S	*	34	30	0·39
	Wisby	29·88	43	SSW	4	0	29·76	+·18	37	37	+1	NW	4	r	*	43	32	0·04
	Bodö	29·89	31	E	4	c	29·97	+·10	31	29	+4	E	2	c	1	32	25	-
	Christiansund	29·70	39	E	2	0	29·84	+·16	38	36	+1	S	2	bc	2	39	37	-
	Skudesnaes ...	29·78	43	N	1	0	29·92	+·19	39	38	−3	NNW	1	0	2	45	37	-
	Christiania Fjord (Færder)	29·79	33	NNW	2	0	29·92	+·18	31	29	−1	NNW	2	b	1	?	30	-
	Skagen (The Scaw)	29·79	36	NE	1	0	29·90	+·20	37	35	+3	NNE	1	0	0	37	32	-
	Fanö	29·80	30	ENE	1	b	29·97	+·23	28	28	−5	2	0	b	*	37	27	-
	Sumburgh Head	29·66	43	SSE	2	c	29·78	+·13	43	42	+1	2	0	0	3	46	40	0·20
	Stornoway ...	29·57	40	2	0	r	29·65	+·19	45	44	+1	S	6	c	5	49	32	0·03
	Wick	29·68	42	NW	1	b	29·76	+·18	36	35	−8	NW	1	bc	1	45	32	-
	Nairn	29·64	37	2	0	bc	29·73	+·18	30	30	−6	2	0	b	0	42	29	0·04
	Aberdeen ...	29·68	40	NNW	2	or	29·82	+·18	33	32	−11	SW	1	cm	3	45	32	0·51
BRITISH ISLANDS.	Leith	29·70	42	SW	2	bc	29·81	+·20	37	36	−5	S	1	m	*	46	32	0·06
	Shields	29·70	42	W	1	b	29·85	+·21	40	38	−4	SSW	3	c	2	46	35	0·21
	Spurn Head ...	29·73	44	W	5	b	29·94	+·29	42	41	−4	S	3	om	3	47	39	0·03
	York	29·73	43	W	2	b	29·92	+·25	39	38	−5	ESE	2	0	*	48	34	0·03
	Loughborough	29·79	39	NW	2	bc	29·93	+·26	40	39	−4	SE	1	ogpm	*	51	38	-
	Ardrossan ...	29·71	45	W	2	b	29·74	+·14	44	43	0	ESE	2	rm	1	49	38	0·02
	Malin Head ...	29·73	44	WNW	3	bep	29·52	−·08	41	41	−1	SSE	5	ofu	3	45	39	0·08
	Mullaghmore ...	29·78	43	WSW	4	p	29·49	−·16	47	45	+6	SE	6	og	5	47	40	0·20
	Belmullet ...	29·78	43	S	2	0	29·44	−·22	46	45	+2	SSE	3	0	*	47	?40	0·08
	Donaghadee ...	29·77	40	W	3	bc	29·71	+·05	45	45	+10	SW	5	r	3	46	33	0·12
	Liverpool (Bidston)	29·81	42	WSW	4	bc	29·83	+·17	41	41	−4	ESE	4	r	4	48	40	0·25
	Holyhead ...	29·82	44	WNW	4	bc	29·72	+·02	49	47	+4	SSE	4	og	3	49	42	0·12
	Parsonstown ...	29·82	39	2	0	0	29·52	−·23	50	49	+12	SE	2	0	*	51	37	0·03
	Valencia	29·80	46	ESE	2	og	29·51	−·31	49	48	+3	WSW	2	rm	2	49	43	0·26
	Roche's Point ...	29·84	46	W	1	0	29·68	−·11	53	53	+8	SSW	6	r	5	53	42	0·40
	Pembroke (St. Ann's Hd.)	29·87	47	W	4	c	29·76	−·02	53	53	+4	SSW	5	cg	5	54	47	0·12
	Scilly	29·89	50	W	4	c	29·80	−·03	54	54	+4	SSW	6	c	5	54	48	0·13
	Prawle Point ...	29·92	47	W	2	b	29·91	+·09	54	54	+7	SSW	5	fu	4	54	45	0·07
	Jersey (St. Aubin's)	29·94	48	WNW	2	bm	30·03	+·16	53	52	+1	SSE	3	omp	3	53	43	0·02
	Hurst Castle ...	29·90	48	W	4	bem	29·98	+·20	49	49	−1	SSW	5	otm	2	51	44	0·10
	Dungeness ...	29·82	46	WSW	2	cp	30·03	+·24	49	46	0	SW	3	ou	2	52	38	0·17
	London	29·86	45	W	2	bc	30·03	+·25	43	41	−1	SSW	2	ogd	*	51	38	0·10
	Oxford	29·90	43	WSW	2	bc	29·98	+·24	41	41	−3	SSE	3	r	*	49	39	0·06
	Cambridge ...	29·82	42	SW	1	b	30·01	+·26	41	40	−2	S	1	r	*	50	34	0·03
	Yarmouth ...	29·75	43	W	3	bc	30·00	+·28	40	39	−5	SW	2	cf	3	47	35	0·02
GERMANY & HOLLAND.	Cuxhaven ...	29·79	43	ENE	2	f	29·95	+·26	40	39	−4	ENE	2	c	*	44	39	0·02
	Berlin	29·83	44	SW	2	0	29·86	+·11	41	40	−2	NNW	2	0	*	48	41	0·35
	Wiesbaden ...	*	*	*	*	*	30·12	+·28	42	40	−3	NW	2	c	*	48	41	0·04
	Munich	30·06	43	SW	2	0	30·09	+·13	45	45	+6	W	1	0	*	46	39	0·28
	The Helder ...	29·73	47	NNW	4	b	30·04	+·33	47	44	+2	NNW	2	b	3	48	45	0·08
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·14	+·30	36	36	−9	WSW	1	f	*	48	34	0·08
	Cape Gris Nez																	
	Paris	29·92	50	S	2	r	30·17	+·23	45	45	+4	SSE	2	c	*	51	44	0·08
	Brest	?	51	NNW	1	0	?	?	56	56	+2	SW	4	0	4	?	50	0·04
	Lorient	29·98	52	W	4	c	30·04	+·19	55	55	+1	SW	4	r	4	55	52	0·12
	Rochefort ...	29·97	55	WSW	5	f	30·10	+·21	55	54	+1	W	3	f	*	57	54	0·12
	Belfort	?	47	SW	4	0	?	?	51	48	+6	SW	4	0	*	?	43	—
	Lyons	30·13	50	SSW	2	0	30·26	+·14	51	49	+8	WSW	1	0	*	52	43	0·04
	Nice	30·09	51	E	1	b	30·09	+·12	48	45	−3	SE	1	c	1	59	45	-
	Perpignan ...	30·23	52	SE	2	b	30·28	+·11	47	44	+4	W	2	b	*	68	43	-
	Biarritz	30·17	61	S	3	0	30·19	+·09	51	48	−7	SSE	2	b	2	64	48	-
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	30·26	57	2	0	b	30·24	−·04	48	47	−2	NE	3	b	5	?	46	—

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on WEDNESDAY, 18TH NOV:, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

WIND—Arrows shew the prevalent winds. They fly with the wind and these barbs and feathers refer to force thus—

= forces above 10; = forces 8 to 10;
= forces 5 to 7, = forces 1 to 4.
= dead calm.

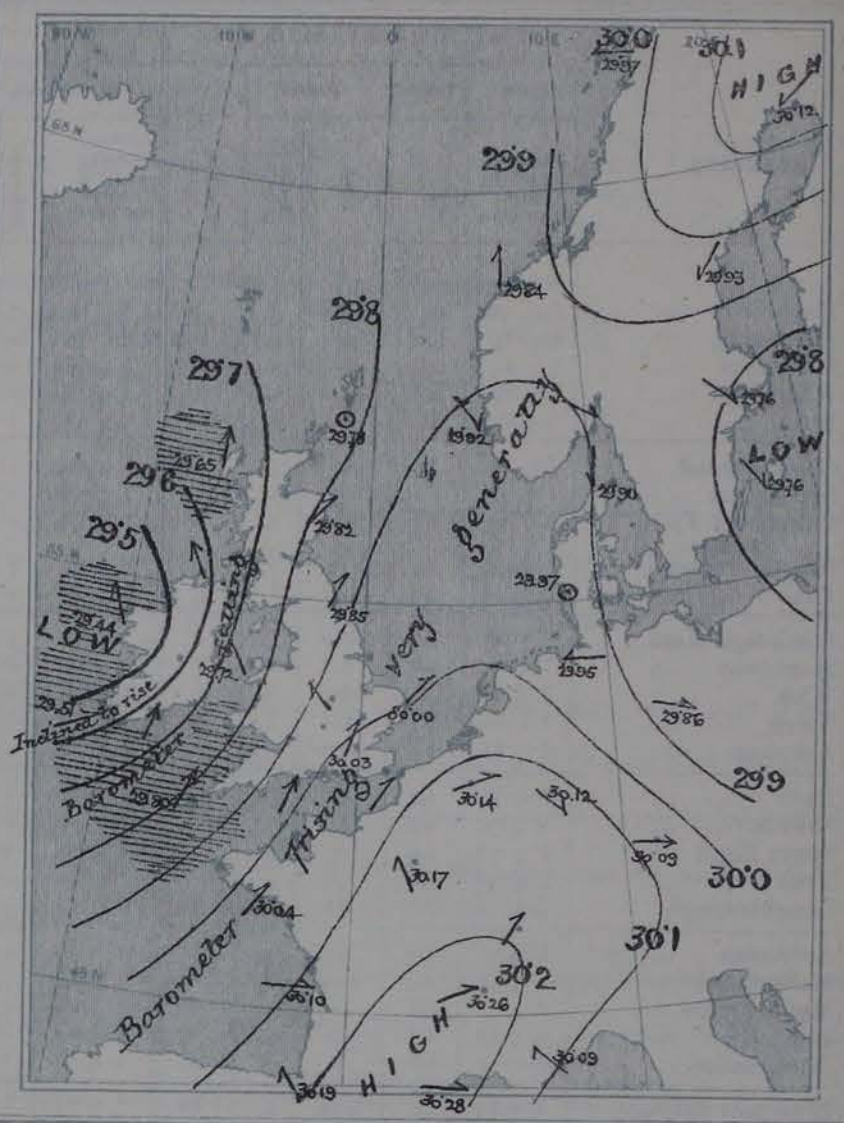
SEA DISTURBANCE—Where considerable, is shewn thus:

= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

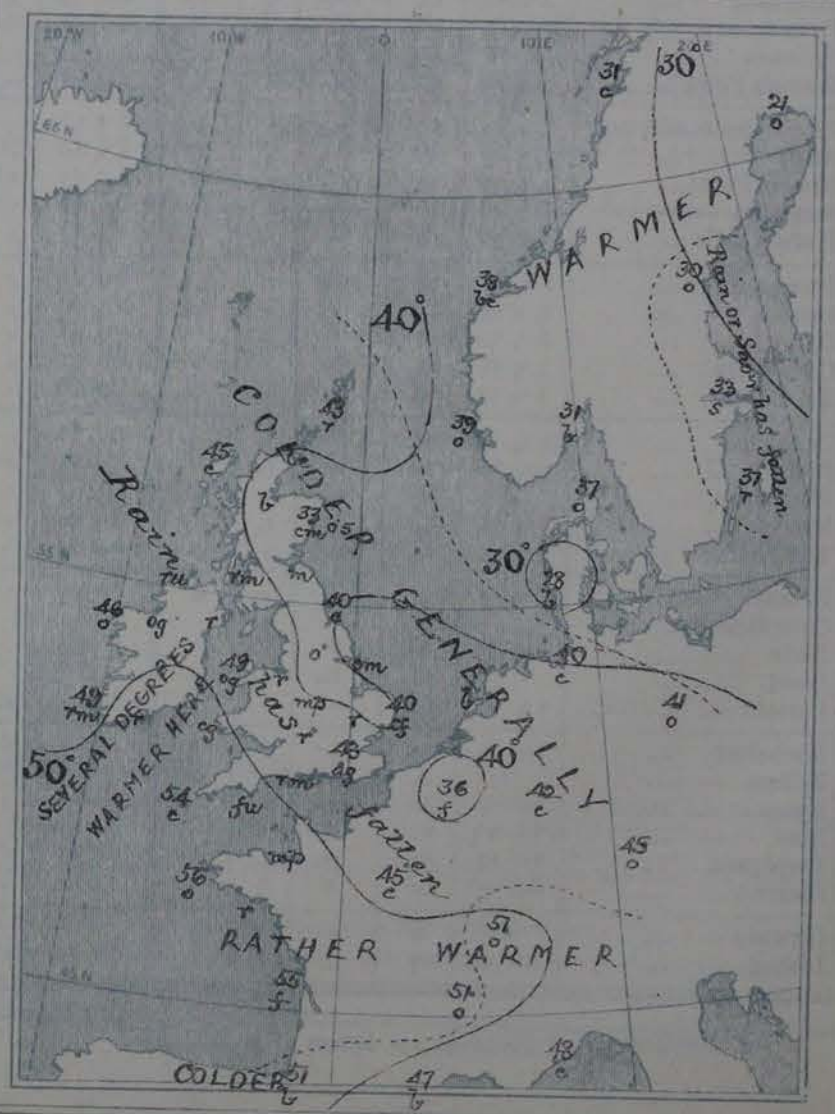
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	At 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	4·16
Stornoway	45·2	37·0	41·7	40·7	4·70
Wick	43·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·5	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·0	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·0	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 in: and upwards over Spain and the central and southern parts of France; 30·1 in: and upwards, in the north of Sweden.
Lowest, 29·5 in: and less, in a depression lying off the west of Ireland; 29·8 in: and less, over the Baltic.
Gradients rather steep over Ireland, but moderate or slight elsewhere.
Barometer rising generally, but falling in the west of our Islands.

TEMPERATURE

Highest, 56° at Brest, 55° at Orient and Rochefort, 54° at Scilly and Prawle Point, and 53° at Roches Point, Pembroke and Jersey.
Lowest, 21° at Haparanda, 28° at Fanö, 30° at Hernösand and Nairn, and 31° at Röst and Faeder.
A slight fall has taken place over England, but a considerable rise in Ireland.

WIND

S^ly over the greater part of the United Kingdom and France; fresh or strong in force over Ireland and the southwest of England.
Light from the W^ly over the Netherlands and from the NW^ly over Denmark, North Germany, and the south of Scandinavia.
Moderate from the E^ly or NE^ly in the north of Scandinavia.

WEATHER

Dull and rainy over England, Ireland, the west of Scotland and the northwest of France
Fair in most other parts of Western Europe, but foggy at Brussels and Rochefort. Rain is falling at Wick, and snow at Stockholm
Rain fell yesterday in nearly all parts of our area, but the amount was in most cases slight. Lunar halos were seen in the south of England.

SEA

Rather rough on our extreme northeast, west, and southwest coasts, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is now inclined to rise again at Valencia Island, and the depression in the west is apparently moving northwards. Freshening southerly winds are probable on our northern coast, but there are at present no reasons for anticipating any serious gale.

FORECASTS

For the 24 hours ending at NOON on 19th November 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	S^ly winds, freshening; fair to dull and rainy.	6 SCOTLAND WEST 7 ENGLAND N.W.	SE^ly to S^ly winds, freshening; dull, rainy.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	Same as No 5.	8 ENGLAND S.W.	S^ly and SW^ly winds, strong to moderate; unsettled, rain at times.
5 ENGLAND SOUTH	S^ly winds, moderate or fresh; unsettled, rain at times.	9 IRELAND NORTH 10 IRELAND SOUTH	S^ly and SW^ly winds, varying in strength; unsettled, rain at times.
		WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29.76	44	42	n	2	r	2
Sumburgh Head	29.65	46	43	SSE	2	bc	4
Stornoway	29.53	49	47	SW	4	b	4
Aberdeen	29.63	43	42	WSW	1	or	4
Shields	29.64	46	43	W	2	bc	2
Ardrossan	29.64	48	45	W	2	b	1
Malin Head ...	29.66	44	42	WSW	4	bc	3
Mullaghmore ...	29.73	47	43	W	4	b c p	3
Belmullet	29.75	47	44	WNW	2	b	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.75	46	44	WNW	4	bcph	4
Valencia	29.83	48	44	L	0	oq	0
Scilly	29.86	52	50	W	4	bg	4
Jersey	29.88	52	50	NW	2	o	2
Dungeness	29.76	50	50	WNW	4	c	3
London	29.78	49	47	W	2	c	*
Yarmouth	29.71	47	46	SW	2	of	4
Rochefort	29.95	65	63	W	4	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine and bright over the extreme southwest of Europe, some parts of England and Ireland, as well as over central Russia, and at Bodö, foggy over southern Russia and at some stations in western Europe, cloudy, more or less, and unsettled in most places, with rain in Austria, Germany, and many parts of France and the British Isles, snow at Hernösand. Rain later in all parts of Western Europe, snow over Sweden, but amounts reported not large.

Temperature changing irregularly, morning readings exceeding 60° in southern Italy and Algeria only, exceeding 50° over the greater part of southern Europe and the west of France, but below 50° over the British Isles, Germany, and Austria, and as low as 6° F. at Moscow, 11° at Archangel, 15° at Haparanda, 24° at St Petersburg, and 29° at Kharkov and Hernösand; 36° at Nairn, 38° at Parsonstown. Rising later to between 50° and 54° over the southern half of England, and to between 60° and 68° in the southwest of France.

Wind very variable; NE^ly to E^ly over northern Europe, S^ly in Scotland, S^ly to W^ly over England and Ireland, SW^ly over Germany, and S^ly to W^ly in France. Becoming variable and light over the United Kingdom later, and backing to SE. and S. in the west of Ireland.

Barometer highest 30.3 ins. and more to 30.0 ins. in a large anticyclone lying over Russia, and in another such system over Spain and the southern half of France. Lowest 29.5 ins. and less, off the northwest of Scotland, below 29.7 ins. over the North Sea, Denmark, and south of Sweden, and in a shallow system over Austria and below 30.0 ins. in a third depression lying over Algeria. Rising over the British Islands during day, but beginning to fall again in the west of Ireland towards night.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT.

for Thursday 19th November 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30.23	19	Z	0	c	30.16	+.04	19	19	−2	NW	2	0	*	23	18	—
	Hernösand ...	30.18	28	N	2	d	30.22	+.25	25	28	−1	N	2	0	*	30	25	0.08
	Stockholm ...	30.02	32	Z	0	d	30.14	+.38	35	35	+2	N	2	0	*	?	28	0.32
	Wisby	30.03	36	NNW	6	c	30.12	+.36	39	36	0	WSW	4	0	*	35	34	—
	Bodö	30.09	30	E	4	0	30.04	+.09	29	28	−2	E	2	0		30	25	—
	Christiansund	30.02	39	SE	2	b	29.79	−.11	40	36	+2	SSE	3	c	3	41	36	—
	Skudesnaes ...	29.57	44	SSE	5	0	29.68	−.24	44	41	+5	SSE	8	0	5	?	43	0.08
	Christiania Fjord (Færder)	30.08	33	NNE	2	c	?30.11	+.19	32	31	+1	NE	2	0	1	34	28	—
	Skagen (The Scaw)	30.01	39	Z	0	b	30.03	+.13	41	39	+4	SSE	4	0	0	41	34	—
	Fanö	30.08	39	SSE	4	r	29.92	−.05	41	41	+13	SSE	4	m	*	41	28	0.04
BRITISH ISLANDS.	Sumburgh Head	29.66	46	SE	5	r	29.44	−.34	46	45	+3	SW	4	b	6	48	43	0.56
	Stornoway ...	29.36	44	S	6	r	29.34	−.31	45	45	0	SW	6	r	6	46	40	0.50
	Wick	29.49	44	S	8	r	29.46	−.30	46	44	+10	S	3	0	4	47	35	0.20
	Nairn	29.40	43	SSW	3	bp	29.45	−.28	42	41	+12	S	1	bcp	1	46	29	0.11
	Aberdeen ...	29.55	46	SSE	6	b	29.55	−.25	45	43	+12	S	3	bcm	4	48	38	0.52
	Leith	29.50	50	SE	3	r	29.61	−.20	48	45	+11	SSW	1	bc	*	55	36	0.31
	Shields	29.65	48	S	2	omd	29.69	−.16	49	46	+9	SSW	3	c	2	53	39	0.03
	Spurn Head ...	29.79	49	S	5	0	29.83	−.11	49	48	+7	SW	3	0	3	53	40	0.08
	York	29.75	48	SSE	2	0	29.81	−.11	50	48	+11	S	1	c	*	54	39	0.09
	Loughborough	29.80	54	S	3	0	29.86	−.09	50	49	+10	WSW	3	0	*	55	40	0.22
	Ardrossan ...	29.51	51	SW	4	r	29.58	−.16	50	48	+6	SSW	4	0	4	52	41	0.54
	Malin Head ...	29.44	45	SSW	4	bp	29.38	−.14	46	43	+5	SSW	6	b	3	49	39	0.14
	Mullaghmore ...	29.48	49	SW	5	c	29.45	−.04	49	45	0	S	7	cpq	5	51	45	0.18
	Belmullet ...	29.46	48	SSW	5	b	29.49	+.05	48	45	+2	W	5	b	*	50	44	0.18
	Donaghadee ...	29.52	51	SW	3	0	29.62	−.09	46	46	+1	SSW	5	bc	3	54	45	0.29
	Liverpool (Bidston)	29.70	55	S	3	0	29.81	−.02	48	45	+7	SSE	2	b	3	56	41	0.11
	Holyhead ...	29.62	54	SSW	6	rdmq	29.75	+.03	51	48	+2	SW	6	cq	6	54	49	0.03
	Parsonstown ...	29.58	49	Z	0	0	29.65	+.13	49	45	−3	SW	2	c	*	56	44	0.04
	Valencia	29.55	51	SSW	6	0	29.76	+.25	49	49	0	WSW	4	bp	5	52	49	0.06
	Roche's Point ...	29.67	50	SW	4	0	29.79	+.11	51	48	−2	SW	6	bc	5	54	49	0.15
	Pembroke (St. Ann's Hd.)	29.71	55	SSW	6	r	29.83	+.11	52	51	−1	SW	6	bcq	6	55	50	0.15
	Scilly	29.78	55	S	6	m	29.95	+.19	53	51	−1	WSW	4	0	5	55	50	0.08
	Prawle Point ...	29.50	54	SW	6	0	29.55	+.08	52	52	−2	SW	4	r	4	54	51	0.19
	Jersey (St. Aubin's)	30.04	56	S	3	ogm	30.08	+.05	53	52	+2	SW	3	bc	3	55	52	0.02
	Hurst Castle ...	29.95	55	SW	7	bm	30.01	+.03	52	52	+3	WSW	7	om	4	53	49	0.11
	Dungeness ...	29.95	54	SW	5	0	30.01	−.02	55	54	+6	SW	5	cp	4	55	48	0.03
	London	29.95	56	SW	4	od	29.96	−.07	55	53	+12	SW	3	0	*	55	42	0.02
	Oxford	29.88	55	S	4	0	29.94	−.04	52	51	+11	SW	2	odq	*	56	41	0.13
	Cambridge ...	29.91	52	S	2	r	29.93	−.08	55	54	+14	SW	2	r	*	55	39	0.03
	Yarmouth ...	29.92	50	SSW	3	c	29.92	−.08	54	53	+14	SSW	4	og	4	54	38	—
GERMANY & HOLLAND.	Cuxhaven ...	30.15	44	S	1	f	30.06	+.11	47	46	+7	SSW	1	f	*	47	?	0.14
	Berlin	30.25	39	Z	0	0	30.18	+.32	41	40	0	SSE	2	0	*	45	39	—
	Wiesbaden ...	*	*	*	*	*	30.23	+.11	46	43	+4	Z	0	0	*	48	42	0.04
	Munich	30.35	40	Z	0	0	30.32	+.23	40	39	−5	S	3	bc	*	46	39	0.08
	The Helder ...																	
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30.19	+.05	54	52	+18	SSW	2	0	*	54	35	0.04
	Cape Gris Nez	30.00	52	S	5	f	30.01		53	52		SSW	5	c	5	?53	43	0.04
	Paris	30.19	54	SSE	2	b	30.19	+.02	52	52	+7	S	2	f	*	56	44	—
	Brest	?	56	SW	4	r	?	?	56	56	0	SW	3	0	0	59	54	0.12
	Lorient	30.06	53	SSW	3	b	30.07	+.03	51	51	−4	SSW	1	bc	5	59	50	—
	Rochefort ...	30.10	56	S	3	bc	30.08	−.02	49	49	−8	ESE	2	b	?	63	45	0.04
	Belfort	?	46	SW	3	c	?	?	55	50	+4	SW	3	f	*	55	36	—
	Lyons														*			
	Nice	30.18	51	NNE	1	b	30.38	+.24	48	46	0	E	2	bc	1	59	46	—
	Perpignan ...	30.23	51	NE	2	b	30.26	−.02	49	46	0	NE	1	0	*	63	42	—
	Biarritz	30.14	61	Z	0	b	30.12	−.07	54	46	+3	SE	3	b	2	70	46	—
PENINSULA.	Corunna	*	*	*	*	*	30.04	−.20	49	48	+1	NNE	3	b	5	63	48	—
	Lisbon	30.12	59	NNW	1	b												

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Thursday, 19th November, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch.
Changes since previous morning are stated in words.

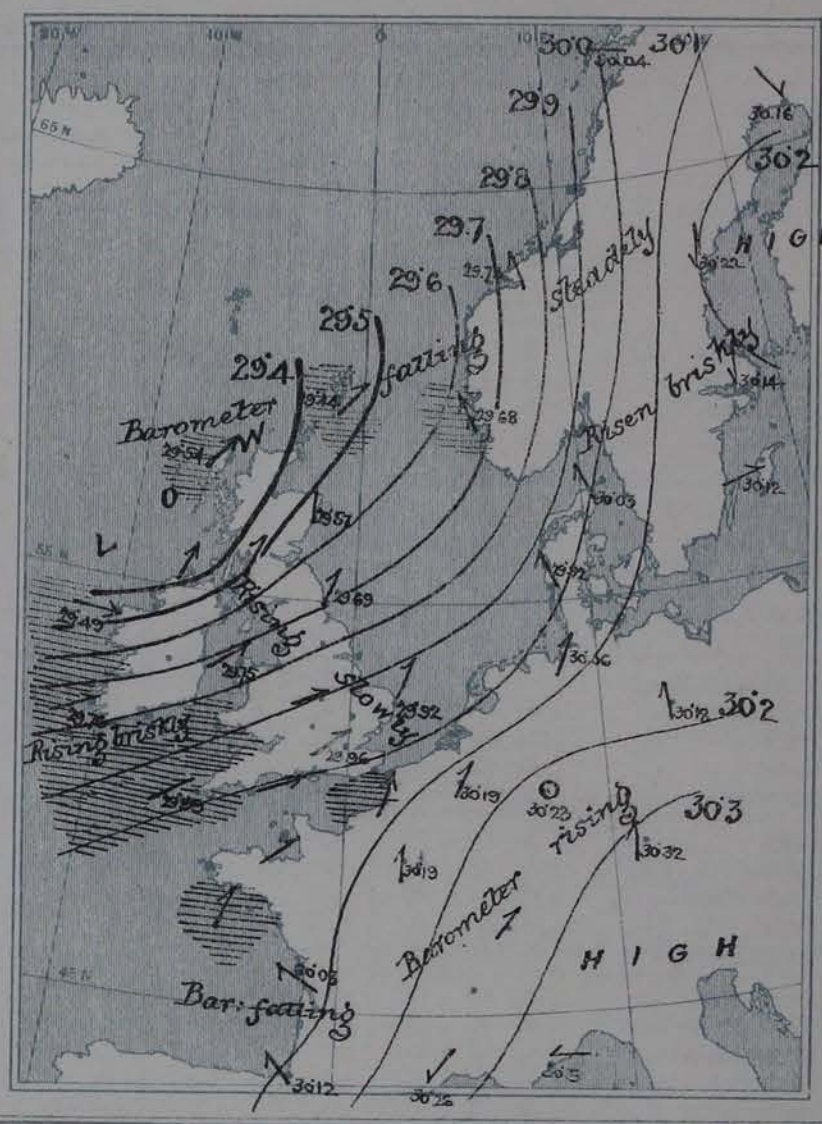
WIND - Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by letters of the Beaufort Scale.

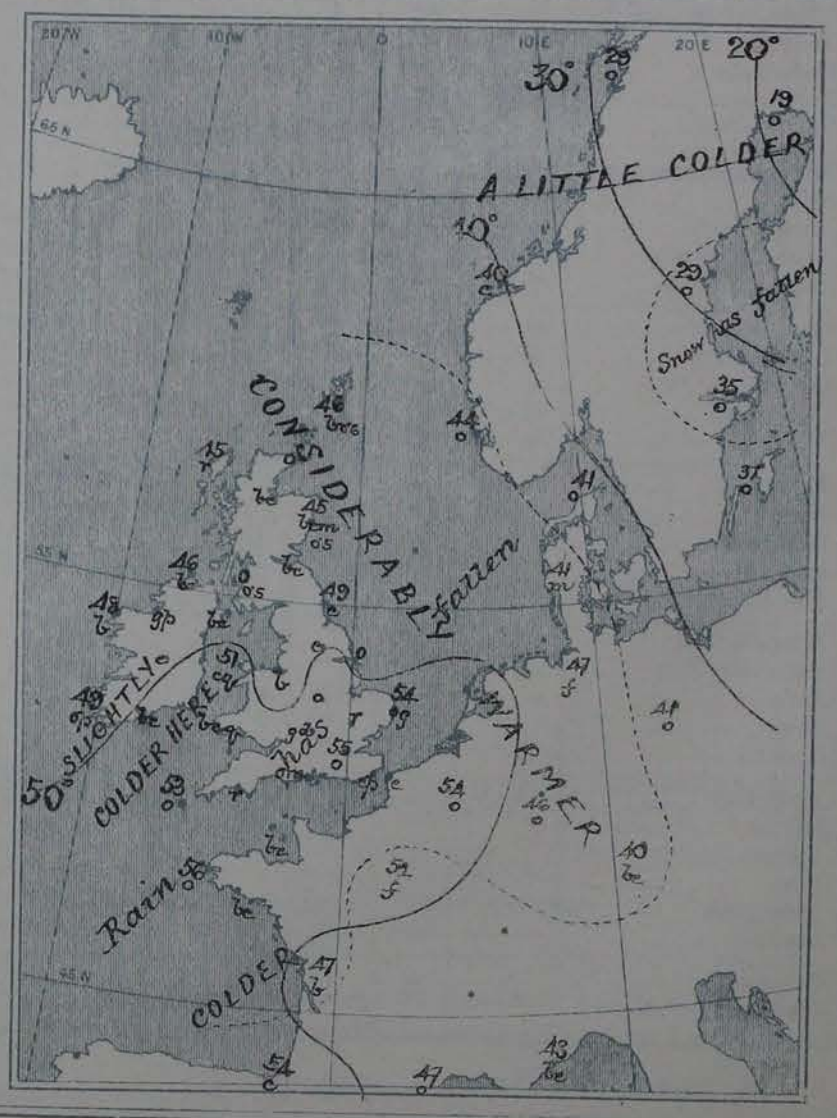
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	4·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	45·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·8	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 ins. and upwards, over South Germany, Switzerland, and the southeast of France; 30·2 ins. and upwards over Central Sweden.

Lowest, 29·4 ins. and less, in a depression lying off the west of Scotland.

Gradients rather steep over the north of Ireland, and also in Norway, but moderate or slight elsewhere.

Barometer falling in the extreme north and northwest of our Islands, as well as in Norway and the west of France, but rising elsewhere.

TEMPERATURE

Highest, 59° at Lisbon, 56° at Brest, 55° in London, and at Dungeness and Jersey, and 54° at Falmouth, Brussels, and Biarritz.

Lowest, 19° at Haparanda, 29° at Bodö and Hernösand, 32° at Tvender, 35° at Stockholm, and 37° at Visby.

A considerable rise has taken place over Great Britain

WIND

SW. over Ireland and England, light on our east coast, but strong in force in the west and south

Light or moderate from the S. in Scotland; SE. on the eastern shores of the North Sea, with a gale at Shetlandness.

Light from the N. in Sweden, SE. or E. in the west and south of France.

WEATHER

Dull over the central, southern, and eastern parts of England, as well as in Scandinavia, Denmark, Germany, and the Netherlands, with rain in some places.

Fine in the west and north of our Island, generally but showery in places; fine also in the west and south of France, but foggy over the central parts of that country.

Rain fell generally yesterday — heavily at some of the northern stations

SEA

Rough or rather so on our eastern and extreme northern coasts, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the west of Scotland will probably travel away to the northward, and some temporary improvement is likely to take place over England. Shallow disturbances are apparently forming over Spain and the Bay of Biscay, and these may possibly advance northwards towards our own southern coasts.

FORECASTS

For the 24 hours ending at NOON on 20th Nov. 1891.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	S. winds, moderate to strong; fine to cloudy and showery.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	S. and SW. winds, moderate; changeable, some rain.
5 ENGLAND SOUTH	SW. to S. or SE. winds; cloudy and showery at first, improving temporarily later.
6 SCOTLAND WEST 7 ENGLAND N.W.	SW. winds, strong to moderate; changeable, showery.
8 ENGLAND S.W.	Same as No. 5.
9 IRELAND NORTH 10. IRELAND SOUTH	Same as Nos. 6 and 7.
WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	30.01	47	42	SSE	2	c	3
Sumburgh Head	29.73	46	45	SE	4	o	4
Stornoway	29.48	44	44	S	6	r	6
Aberdeen	29.73	43	41	SSE	5	ogqr	4
Shields	29.72	43	41	SE	4	r	3
Ardrossan	29.51	44	43	SW	4	r	3
Malin Head ...	29.41	48	47	S	3	o	2
Mullaghmore ...	29.44	50	49	SSW	5	og	3
Belmullet	29.44	46	45	SSW	3	r	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.65	54	53	SSW	5	rmq	4
Valencia	29.56	51	48	SSW	5	ov	4
Scilly	29.79	56	56	S	6	om	5
Jersey	30.03	55	55	S	3	ogm	3
Dungeness	29.99	52	52	SW	5	r	4
London	29.54	55	54	SW	1	og	*
Yarmouth	29.57	48	47	SSW	4	og	4
Rochefort	30.14	57	57	SSW	3	bl	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over the Iberian Peninsula and southwest of France, over central Russia, Norway, and Scotland, very dull and changeable elsewhere, with rain in many parts of England, Ireland, Brittany and Poland, fog in several localities, especially in the west and south of Russia. Rain later in all parts of our Islands, and many parts of France and Sweden; fall slight except over Scotland and the north of Ireland.

Temperature rises over Spain and France, as well as in Sweden, falls somewhat over our Islands, and central and Eastern Europe, but changing frequently and fitfully. Morning readings 60° or more at several of the Mediterranean stations and in the north of Spain, above 50° over the south and west of France and on several parts of our own western coasts, much lower elsewhere; below 40° over Scotland. Lowest of all (1) 3°F. at Moscow, 19° at St Petersburg and Uleaborg, 30° at Haparanda, Kuopio, and Riga, 33° at Kiew; (2) 30° at Nairn, 33° at Aberdeen. Rising later to between 63° and 70° in the southwest of France, and to between 53° and 57° over Ireland and England. Air very damp and "muggy".

Wind SE⅓ to NE⅓ over the Baltic Provinces, Finland, the north of Sweden and Lapland; S⅓ (SSW to SSE) over our Islands, SW⅓ over the Bay of Biscay, W⅓ over central and southeastern Europe, variable over the Mediterranean. S⅓ wind becoming strong and gusty in our Islands later and spreading to France and the west of Norway.

Barometer highest (1) 30·4 ins. and more to 30·2 ins. over the Spanish Peninsula and southwest of France, (2) 30·1 ins. to 29·9 ins. over Finland, Lapland, and the northern parts of Sweden and Norway. Lowest (1) 29·5 ins. and less, in a large but not deep depression over the west of Ireland and neighbouring parts of Atlantic; (2) 29·7 ins. and less, in another disturbance over the southern half of Russia. Depression off our western coasts moving northeastwards later, and barometer rising somewhat over Ireland and England.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT.

for Friday, 20th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.99	26	SW	4	0	29.78	-.38	26	26	+1	S	4	S	*	32	18	0.04
	Hernösand ...	29.93	33	Z	0	0	29.43	-.79	36	35	+1	NE	2	r	*	?	23	0.43
	Stockholm ...	29.89	36	SE	4	0	29.56	-.58	36	35	+1	SW	2	0	*	39	30	0.32
	Wisby	29.93	39	SSE	4	r	29.86	-.26	42	41	+5	NSW	4	0	*	?	32	0.39
	Bodö	29.80	36	E	2	0	29.67	-.37	30	28	+1	E	2	b	1	36	27	-
	Christiansund	29.62	41	SSE	3	r	29.54	-.19	40	39	0	NE	2	f	2	41	39	0.39
	Skudesnaes ...	29.58	49	SSE	4	0	29.53	-.15	42	41	-2	ENE	1	0	4	48	41	0.12
	Christiania Fjord (Færder)	29.67	34	NNW	5	b	29.55	-.56	36	35	+4	NNW	3	0	1	36	32	-
	Skagen (The Scaw)	29.70	43	SW	2	0	29.78	-.25	42	41	+1	NSW	3	r	3	45	39	0.35
	Fanö	29.85	46	NSW	2	c	?	?	46	45	+5	W	4	c	*	48	41	0.12
BRITISH ISLANDS.	Sumburgh Head	29.42	46	Z	0	c	29.58	+.14	44	43	-2	NNE	1	b	4	50	41	-
	Stornoway ...	29.35	44	W	8	r	29.64	+.30	43	43	-2	N	6	bc	6	49	42	0.30
	Wick	29.38	45	SW	2	c	29.62	+.16	39	38	-7	NW	3	c	2	48	38	0.12
	Nairn	29.39	45	SW	3	bc	29.63	+.18	40	39	-2	W	1	c	1	52	37	0.03
	Aberdeen ...	29.50	44	SSW	3	b	29.65	+.08	40	38	-5	NNW	2	bc	2	49	40	-
	Leith	29.60	46	SW	4	bc	29.69	+.08	46	44	-2	NSW	3	bcm	*	50	44	0.07
	Shields	29.72	46	SW	2	bm	29.72	+.03	47	45	-2	NSW	4	c	2	54	43	-
	Spurn Head ...	29.86	48	SSW	4	c	29.86	+.03	45	43	-4	SW	4	c	4	51	40	-
	York	29.81	51	SSW	3	bc	29.83	+.02	46	43	-4	NSW	2	b	*	55	42	-
	Loughborough	29.90	48	SW	3	b	29.91	+.05	45	43	-5	SW	4	c	*	54	45	-
	Ardrossan ...	29.62	49	SW	4	0	29.75	+.17	47	45	-3	SW	3	c	2	50	46	0.25
	Malin Head ...	29.57	47	NSW	5	bcp	29.79	+.41	45	44	-1	NNW	5	cqp	3	49	44	0.21
	Mullaghmore ...	29.71	48	SW	6	cp	29.87	+.42	47	45	0	NW	5	c	3	51	45	0.29
	Belmullet ...	29.71	48	NW	5	b	29.96	+.47	46	43	-2	NW	2	c	*	49	45	0.12
	Donaghadee ...	29.69	46	SW	4	b	29.81	+.19	44	43	-2	W	4	b	2	51	42	-
	Liverpool (Bidston)	29.86	48	NSW	3	b	29.90	+.09	46	43	-2	SW	2	c	3	53	44	-
	Holyhead ...	29.84	51	SW	5	bc	29.90	+.15	48	46	-3	NSW	4	cq	4	53	47	-
	Parsonstown ...	29.85	45	Z	0	b	29.93	+.28	45	44	-2	SW	1	c	*	51	43	0.02
	Valencia	29.95	47	W	2	b	30.05	+.29	48	47	-1	NNW	2	c	2	52	44	-
	Roche's Point ...	29.95	48	W	3	bc	30.00	-.21	43	41	-8	W	1	b	3	53	40	-
	Pembroke (St. Ann's Hd.)	29.96	52	NSW	5	c	29.99	+.12	50	48	-2	W	4	cq	4	53	50	-
	Scilly	30.01	52	SW	4	c	30.05	+.06	51	49	-2	NNW	4	c	5	54	48	-
	Prawle Point ...	30.06	52	W	4	c	30.08	+.09	48	48	-4	W	2	c	2	52	46	-
	Jersey (St. Aubin's)	30.10	55	S	2	ogmr	30.08	.00	50	49	-5	W	2	om	2	59	47	0.02
	Hurst Castle ...	30.06	52	NSW	4	b	30.05	+.04	49	49	-3	NSW	4	bc	2	56	48	0.02
	Dungeness ...	30.03	54	SW	4	d	30.02	+.01	50	50	-5	W	3	c	3	56	47	0.02
	London	30.04	51	SW	2	0	30.01	+.05	47	45	-8	W	1	c	*	57	46	0.01
	Oxford	30.02	49	NNW	3	bc	30.00	+.06	47	46	-5	SW	2	c	*	56	47	-
	Cambridge ...	29.98	48	NSW	1	c	29.97	+.04	45	45	-10	SW	1	bc	*	56	43	0.03
	Yarmouth ...	29.95	52	SW	3	0	29.95	+.03	46	45	-8	NSW	3	cf	3	55	44	0.02
GERMANY & HOLLAND.	Cuxhaven ...	29.99	47	SW	4	r	29.94	-.12	49	48	+2	NSW	3	c	*	52	47	0.10
	Berlin	30.08	46	SW	2	0	29.98	-.20	48	47	+7	SW	2	0	*	48	41	-
	Wiesbaden ...	*	*	*	*	*	30.11	-.12	48	48	+2	Z	0	f	*	50	45	-
	Munich	30.25	40	SE	2	b	30.17	-.15	36	?	-4	SSW	2	b	*	54	34	-
	The Helder ...	30.00	51	SW	2	c	29.95		50	48		NSW	2	c	3	52	48	-
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30.07	-.12	48	48	-6	SW	2	f	*	57	46	-
	Cape Gris Nez	30.03	53	SW	4	c	29.99	-.02	51	50	-2	SW	3	bc	3	55	50	-
	Paris	30.17	51	SSW	2	f	30.11	-.08	46	45	-6	S	1	m	*	61	45	-
	Brest	?	53	SW	1	0	?	?	49	49	-7	E	1	0	5	59	48	-
	Lorient	30.09	52	S	1	b	30.02	-.05	47	46	-4	ENE	2	bc	5	59	?	-
	Rochefort ...	30.04	54	ENE	2	b	29.97	-.11	53	50	+6	SE	3	0	*	63	46	-
	Belfort	?	41	W	3	f	?	?	34	31	-21	W	3	f	*	61	34	-
	Lyons	30.23	50	SSE	1	b	30.15	-.13	44	43	+3	N	1	c	*	61	41	-
	Nice	30.29	55	SW	1	c	30.21	-.12	47	46	-1	NE	3	bc	2	63	46	-
	Perpignan ...	30.25	53	E	2	0	30.16	-.10	48	48	+1	SW	2	0	*	61	46	-
	Biarritz	30.05	48	NW	4	0	30.01	-.11	55	52	+1	S	2	0	3	68	50	-
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	29.94	61	NNE	2	bc	29.96	-.08	53	53	+4	ENE	4	0	6	63	49	-

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Friday, 20th November, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch.
Changes since previous morning are stated in words.

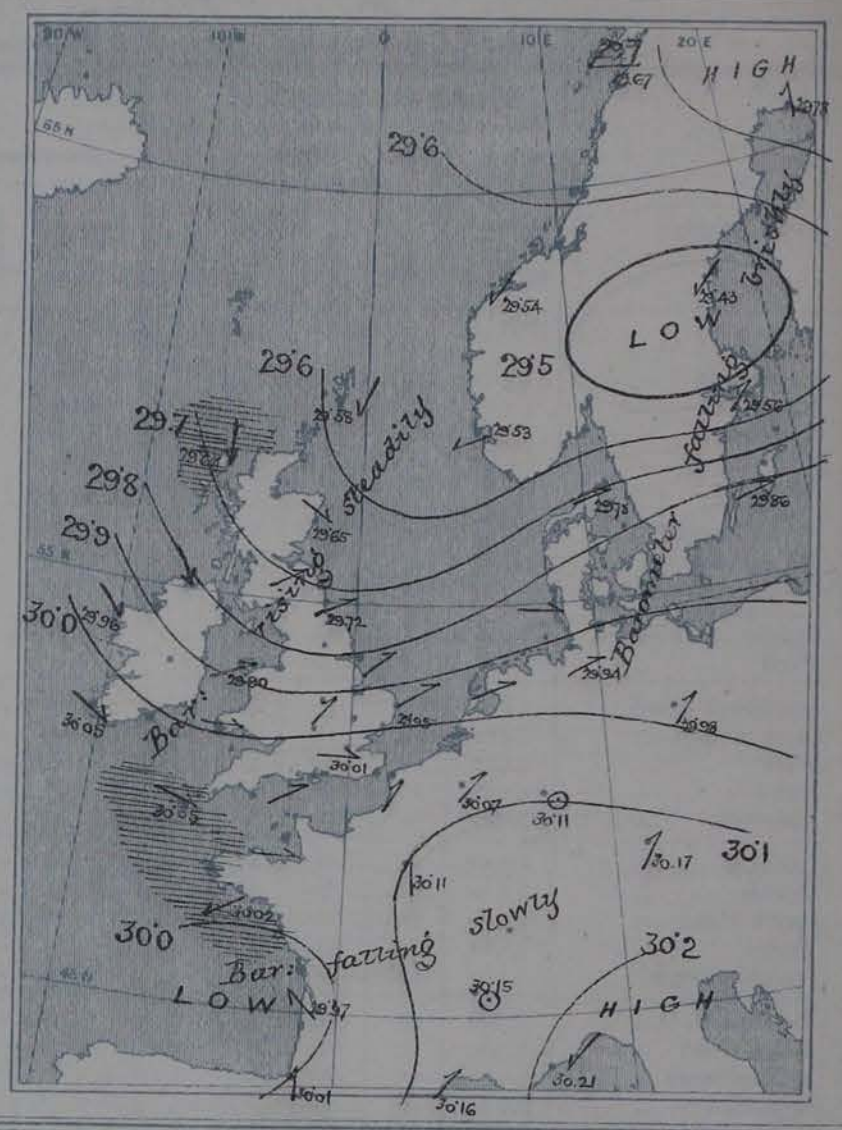
WIND - Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE —Where considerable, is shewn thus:
= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29 · 683
Stornoway	29 · 699
Wick	29 · 722
Nairn	29 · 738
Aberdeen	29 · 758
Leith	29 · 789
Shields	29 · 813
Spurn Head	29 · 842
York	29 · 846
Loughborough	29 · 877
Ardrossan	29 · 791
Mullaghmore	29 · 780
Donaghadee	29 · 810
Holyhead	29 · 835
Liverpool	29 · 851
Parsonstown	29 · 847
Valencia	29 · 864
Roche's Point	29 · 865
Pembroke	29 · 864
Scilly	29 · 897
Prawle Point	29 · 914
Jersey	29 · 928
Hurst Castle	29 · 902
Dover	29 · 893
LONDON	29 · 898
Oxford	29 · 896
Cambridge	29 · 887
Yarmouth	29 · 865



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

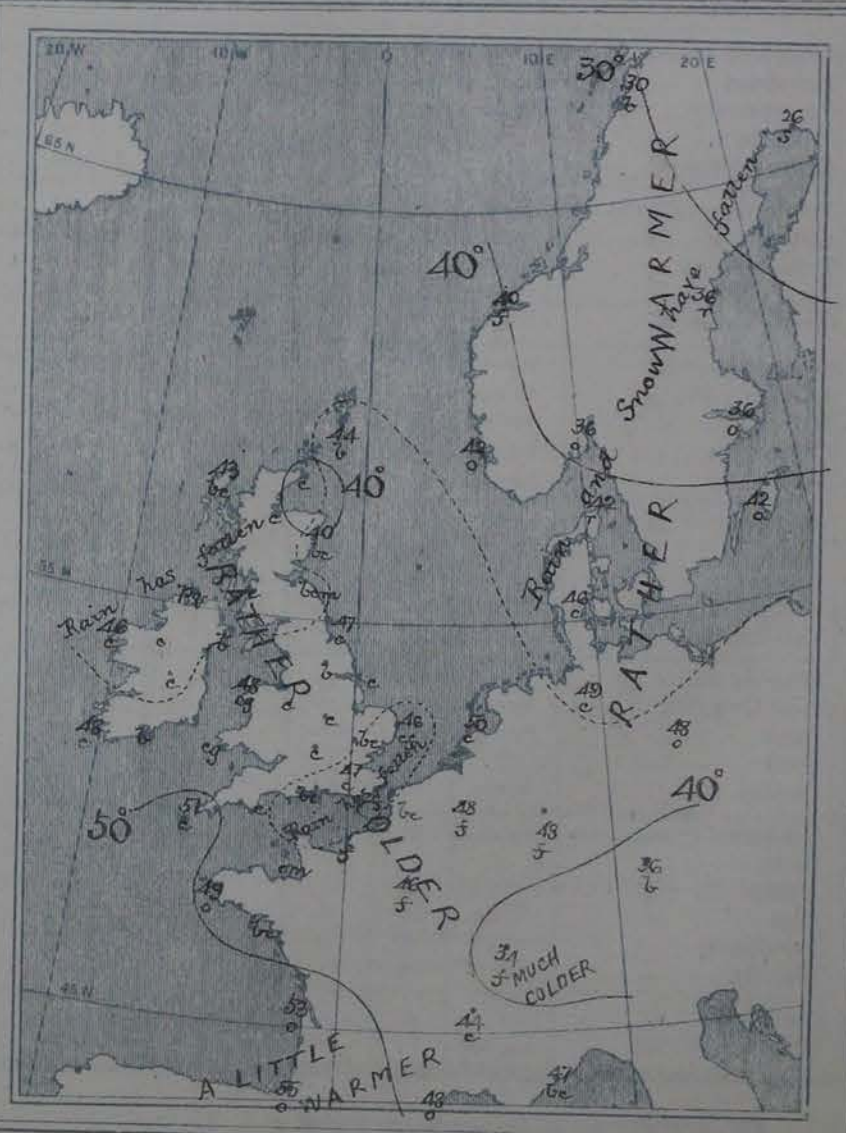
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches.)
Sumburgh Head	45 · 6	37 · 8	42 · 0	40 · 3	4 · 16
Stornoway	46 · 2	37 · 0	41 · 7	40 · 7	4 · 70
Wick	46 · 1	36 · 1	41 · 4	39 · 8	2 · 93
Nairn	45 · 3	35 · 7	39 · 8	38 · 2	2 · 29
Aberdeen	46 · 2	36 · 5	40 · 5	38 · 7	3 · 14
Leith	48 · 1	37 · 0	41 · 7	40 · 0	2 · 20
Shields	47 · 3	37 · 9	42 · 1	40 · 5	2 · 61
Spurn Head	46 · 8	40 · 2	43 · 2	41 · 9	2 · 40
York	47 · 5	36 · 4	40 · 6	39 · 3	2 · 19
Loughborough	48 · 0	36 · 6	40 · 5	39 · 3	2 · 24
Ardrossan	47 · 8	39 · 1	43 · 1	41 · 3	3 · 88
Mullaghmore	49 · 6	41 · 2	45 · 1	43 · 1	4 · 48
Donaghadee	48 · 3	39 · 2	43 · 2	42 · 0	3 · 20
Holyhead	49 · 7	42 · 9	45 · 8	44 · 0	3 · 88
Liverpool	47 · 8	39 · 6	42 · 5	40 · 7	2 · 96
Parsonstown	49 · 1	37 · 1	41 · 9	40 · 2	2 · 83
Valencia	52 · 3	43 · 0	47 · 4	45 · 5	5 · 42
Roche's Point	51 · 1	42 · 0	46 · 1	44 · 5	4 · 62
Pembroke	50 · 1	43 · 8	46 · 9	45 · 1	4 · 04
Scilly	52 · 4	46 · 7	50 · 0	48 · 0	3 · 72
Prawle Point	51 · 1	41 · 9	46 · 2	44 · 7	3 · 20
Jersey	51 · 9	44 · 1	47 · 7	45 · 8	4 · 30
Hurst Castle	50 · 5	40 · 6	44 · 9	44 · 0	3 · 05
Dover	49 · 3	40 · 6	44 · 3	42 · 8	3 · 48
LONDON	49 · 3	38 · 0	42 · 2	40 · 8	2 · 23
Oxford	48 · 2	37 · 6	41 · 2	40 · 0	2 · 31
Cambridge	48 · 6	35 · 8	40 · 7	39 · 9	2 · 01
Yarmouth	47 · 5	39 · 0	43 · 1	42 · 0	3 · 06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 ins: and upwards in the southeast of France.

Lowest, 29·5 ins: and less, in a depression lying over the central parts of Scandinavia; 30·0 ins and less, in a shallow disturbance lying over the Bay of Biscay.

Gradients moderate or slight generally.

Barometer rising in our Islands, but falling at most of the Continental stations,— briskly in Sweden.

TEMPERATURE

Highest, 55° at Biarritz, 53° at Rochefort and Lisbon, 51° at Cape Gris Nez and Scilly, and 50° at Pembroke, Dungeness, and Jersey.

Lowest, 26° at Haparanda, 30° at Bodö, 34° at Belfort and 36° at Hernosand, Stockholm, Paris and Munich.

During yesterday the thermometer rose to 56° at several of our southern stations, to 57° in London and to 59° at Jersey.

WIND

NW^ly in the extreme west and north of our Islands, but W^ly or SW^ly in other parts of the Kingdom, as well as in Denmark, Germany, and the south of Sweden; light or moderate in force generally.

Light from the NE^ward in the west of Norway, and from the E^ward or SE^ward in the west of France.

WEATHER

Fair or fine in nearly all parts of the United Kingdom, but dull at most of the Continental stations, with fog over the Netherlands and Central France and rain or snow over the northern parts of Sweden.

Slight rain fell yesterday in the south of our Islands, and larger amounts in the extreme north and northwest.

SEA

Moderate to smooth generally, but rough at Stornoway and rather rough at the mouth of the Channel.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depression over the Bay of Biscay will probably move eastwards over France, and is scarcely likely to affect the weather in our Islands. The general appearance although not settled is somewhat more favourable than of late.

FORECASTS

For the 24 hours ending at NOON on 21st Novr 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	NW^ly winds, light or moderate; fair generally.	6 SCOTLAND WEST 7 ENGLAND N.W.	W^ly to NW^ly winds, light or moderate; fair generally.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	W^ly winds, light; fair generally, but local fogs, colder.	8 ENGLAND S.W.	NW^ly to N^ly winds, light; fair generally.
5 ENGLAND SOUTH	W^ly to Variable breezes; fair generally, but foggy at night, colder.	9 IRELAND NORTH 10 IRELAND SOUTH	Same as No 5.
		WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29.68	47	44	SSE	6	c	4
Sumburgh Head	29.44	48	47	SSW	1	b	5
Stornoway	29.28	48	48	S	6	r	6
Aberdeen	29.50	49	45	S	4	c q u	4
Shields	29.68	53	48	SW	4	c	2
Ardrossan	29.58	50	48	SW	4	o p	4
Malin Head ...	29.48	47	45	WSW	6	c	4
Mullaghmore ...	29.61	49	46	SW	6	c q p	5
Belmullet	29.65	49	47	W	5	o p	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.80	52	48	SW	6	b c q	6
Valencia	29.90	53	49	WSW	5	b c q	5
Scilly	30.01	54	52	SW	4	o	5
Jersey	30.09	56	53	SSE	3	o	3
Dungeness	30.01	55	54	SW	6	o	4
London	30.00	57	55	SW	2	c q m	*
Yarmouth	29.94	54	53	SW	3	o m	4
Rochefort	30.07	60	57	SE	2	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright (1) over the Mediterranean, Spain, the west of France, and the western parts of our Islands; (2) over northern Russia; cloudy or overcast and unsettled elsewhere, with rain in several parts of Great Britain, at Copenhagen, and at Memel, snow at Riga and Ulleaborg. Rain falling later over Scandinavia and the north and northwest of our Islands, and very small quantities in the south. Fine weather prevailing over France and Germany, and spreading to England subsequently.

Temperature risen over France, the British Isles, and west of Norway, fallen over southeastern, central, and northern Europe. Still above 60° at some stations on the southeastern, and southern sides of the Mediterranean, and above 50° in the west and north of France and the west and south of England; lower elsewhere. Lowest −4° F. at Archangel, +6° at Moscow, 10° at St Petersburg and below 32° at the stations in Russia, Finland, Lapland, and the north of Sweden generally, but not below 40° at any of our own stations. Rising later to 60° and more over the greater part of France, to 59° at Jersey, and to between 50° and 55° even on our northeastern coasts.

Wind (1) Very light and anticyclonic over Northern Russia, and also over central and southern Europe. (2) Strong SW to S at our western and northern stations, moderate on our East coasts; moderate S in the Netherlands, SE in Norway (a gale at Skudesnaes). (3) N over Sweden, the Baltic Provinces, Poland, Hungary, and southern Russia, veering towards W. over Ireland and England later.

Barometer (1) 30.5 ins. and more to 30.2 ins. over northern Russia and the Gulfs of Finland and Bothnia; (2) 30.3 ins. and more in an anticyclone over Austria, Switzerland, Italy, and adjacent parts of the Mediterranean. Lowest (1) 29.4 ins. and less off the northwestern coasts of our Islands; (2) 29.7 ins. and less, over the southeast of Russia. Former low-pressure area moving northeastwards later in day, and barometer rising in the west and south of our Islands; falling over Spain and Portugal.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS:—*For* Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Saturday, 21st November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.64	19	NE	2	bc	29.60	-.18	20	19	-6	NE	2	0	*	32	18	-
	Hernösand ...	29.54	33	NW	4	0	29.65	+.22	30	28	-6	N	2	0	*	36	28	0.16
	Stocknolm ...	29.47	32	NW	2	0	29.50	-.06	32	30	-4	NW	4	0	*	39	28	-
	Wisby	29.49	43	W	6	r	29.51	-.35	38	35	-4	N	6	0	*	45	34	0.16
	Bodö	29.71	26	E	1	b	29.73	+.06	28	25	-2	E	1	c	1	30	23	-
	Christiansund	29.75	39	E	2	0	29.79	+.25	38	37	-2	ESE	1	c	2	40	37	0.16
	Skudesnaes ...	29.58	42	2	0	0	29.70	+.17	41	37	-1	ENE	2	0	3	45	37	-
	Christiania Fjord (Færder)	29.59	34	NNE	5	b	29.70	+.15	35	33	-1	NNW	4	bc	1	36	34	-
	Skagen (The Scaw)	29.55	41	N	1	bc	29.64	-.14	37	34	-5	ESE	4	0	1	46	34	0.08
	Fanö	29.63	44	N	3	b	29.55	?	42	42	-4	NW	4	c	*	48	42	0.12
BRITISH ISLANDS.	Sumburgh Head	29.76	42	NNE	2	b	29.82	+.24	40	39	-4	NNE	2	bc	3	47	38	0.03
	Stornoway ...	29.81	43	N	5	bc	29.88	+.24	38	37	-5	N	3	bc	3	47	34	0.05
	Wick	29.75	42	SW	3	r	29.86	+.24	38	37	-1	NW	2	bc	1	48	37	0.08
	Nairn	29.76	46	NNW	1	c	29.84	+.21	41	40	+1	NNW	1	0	1	46	38	0.01
	Aberdeen ...	29.76	42	ENE	3	b	29.83	+.18	37	36	-3	NW	3	bcw	3	48	37	0.03
	Leith	29.75	47	SE	2	0	29.86	+.17	40	39	-6	WSW	1	cm	*	50	39	-
	Shields	29.75	45	SW	2	m	29.77	+.05	42	41	-5	NW	2	c	2	50	38	0.02
	Spurn Head ...	29.78	46	WSW	3	c	29.75	-.11	42	41	-3	NNW	2	cm	2	47	39	-
	York	29.80	46	WSW	2	c	29.80	-.03	40	40	-6	NNW	1	b	*	48	35	0.02
	Loughborough	29.85	46	WSW	3	0	29.79	-.12	41	40	-4	NW	1	cm	*	51	38	-
	Ardrossan ...	29.77	47	N	1	cp	29.87	+.12	41	40	-6	2	0	c	0	48	36	0.02
	Malin Head ...	29.85	46	NNW	5	bcp	29.87	+.08	45	44	0	NNW	3	cp	2	47	44	0.03
	Mullaghmore ...	29.95	45	NW	5	cp	29.94	+.07	44	42	-3	NNW	4	bc	3	48	43	0.04
	Belmullet ...	30.07	44	NW	2	bp	29.99	+.03	42	40	-4	NNW	2	b	*	48	41	0.08
	Donaghadee ...	29.93	44	SW	5	r	29.87	+.06	43	43	-1	WSW	2	c	0	48	42	0.21
	Liverpool (Bidston)	29.86	45	NNW	3	bc	29.85	-.05	43	42	-3	N	1	0	2	48	43	0.24
	Holyhead ...	29.89	46	NW	4	bc	29.86	-.04	47	45	-1	NNW	4	cq	4	49	45	0.11
	Parsonstown ...	30.00	41	2	0	b	29.91	-.02	37	36	-8	2	0	bc	*	49	34	0.01
	Valencia	30.08	47	NNW	2	bc	30.06	+.01	44	42	-4	NW	1	cp	2	51	41	0.07
	Roche's Point ...	30.02	45	NW	3	b	30.00	.00	43	40	0	NW	4	b	4	50	38	-
	Pembroke (St. Ann's Hd.)	29.95	50	NNW	3	c	29.92	-.07	46	45	-4	NW	3	cg	3	51	44	-
	Scilly	29.98	51	NW	4	bc	29.96	-.09	47	45	-4	NW	4	cp	4	52	45	-
	Prawle Point ...	29.97	46	W	1	bc	29.93	-.15	41	40	-7	NNW	1	b	1	50	38	-
	Jersey (St. Aubin's)	29.97	52	NW	2	om	29.92	-.16	49	46	-1	NW	3	cqm	3	55	47	0.04
	Hurst Castle ...	29.95	49	W	3	bc	29.88	-.17	42	41	-7	NNW	3	bc	1	53	39	-
	Dungeness ...	29.92	49	SW	3	0	29.83	-.19	38	38	-12	NNW	3	cw	2	52	38	-
	London	29.93	50	WSW	2	0	29.84	-.17	37	36	-10	SW	1	bcm	*	53	35	-
	Oxford	29.91	44	SW	2	c	29.85	-.15	38	37	-9	WSW	3	0	*	52	36	-
	Cambridge ...	29.89	45	SW	1	c	29.81	-.16	40	39	-5	SW	1	c	*	52	34	-
	Yarmouth ...	29.85	46	W	2	bcm	29.79	-.16	36	35	-10	W	2	b	2	49	35	-
GERMANY & HOLLAND.	Cuxhaven ...	29.82	46	WSW	3	bc	29.77	-.17	44	42	-5	SW	2	c	*	49	42	-
	Berlin	29.84	48	SW	2	0	29.73	-.25	46	44	-2	W	3	c	*	52	45	-
	Wiesbaden ...	*	*	*	*	*	29.80	-.31	48	46	0	W	2	r	*	50	46	0.67
	Munich	29.99	35	NE	2	m	29.84	-.33	38	38	+2	SSW	2	c	*	52	34	-
	The Helder ...	29.84	49	W	2	c	29.74	-.21	47	44	-3	W	2	b	3	50	45	0.04
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.82	-.25	43	43	-5	SW	1	0	*	50	43	0.04
	Cape Gris Nez	29.91	50	W	4	0	29.80	-.19	46	44	-5	NW	3	c	3	52	43	-
	Paris	29.99	48	SE	1	0	29.88	-.23	46	45	0	NNW	1	r	*	50	46	0.24
	Brest	?	51	NE	1	0	?	?	49	48	0	N	2	0	5	57	46	-
	Lorient	29.93	52	NNE	2	0	29.93	-.09	49	46	+2	NNE	2	0	4	54	46	-
	Rochefort ...	?	55	SE	3	0	?	?	53	52	0	2	0	0	*	57	?	-
	Belfort	?	40	W	3	c	?	?	46	43	+12	W	3	0	*	47	32	-
	Lyons	30.00	49	SSW	1	b	?	?	47	47	+5	WNW	1	0f	*	60	44	0.08
	Nice	30.06	53	2	0	c	29.90	-.31	52	49	+5	E	1	c	3	61	47	0.12
	Perpignan ...	30.01	57	E	2	r	29.91	-.25	55	51	+7	NW	2	b	*	57	48	1.26
	Biarritz	29.96	61	S	2	0	29.95	-.06	58	55	+3	W	5	c	4	63	54	-
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	29.95	59	SSE	4	0	29.90	-.06	56	55	+3	NNE	3	c	5	66	53	0.16

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Saturday, 21st November, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus

= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

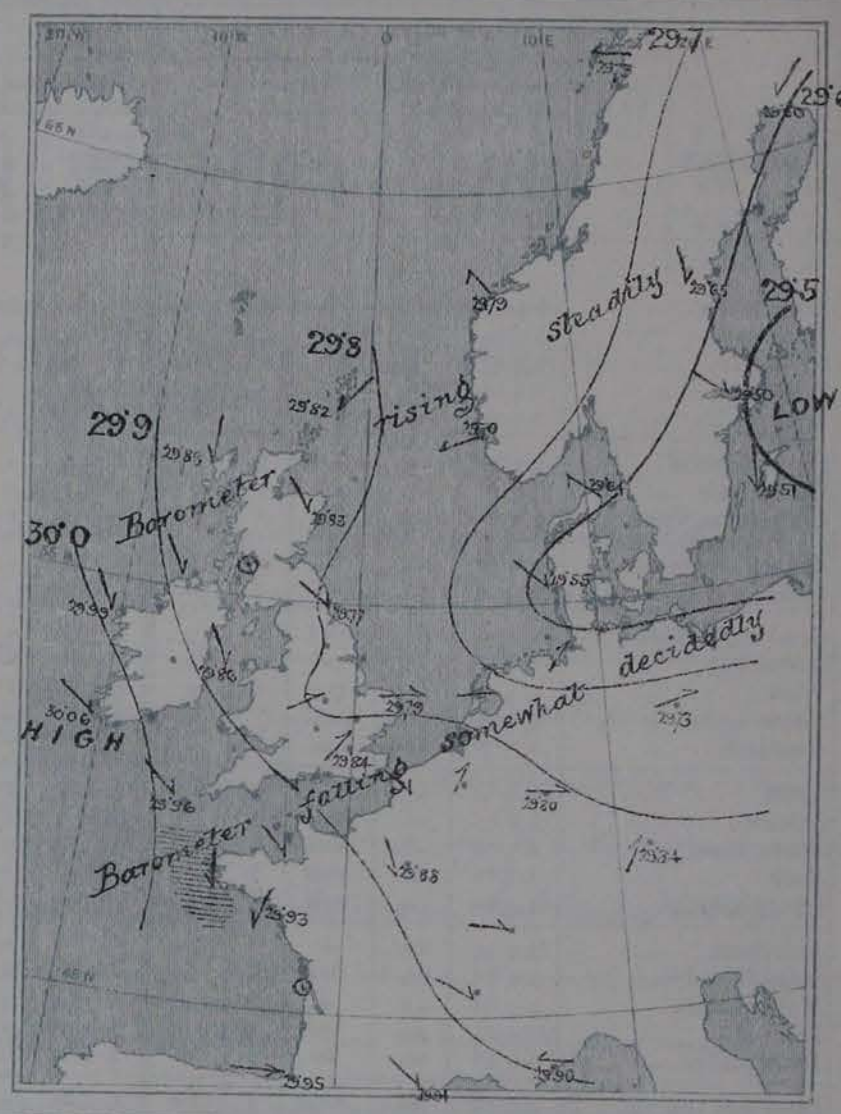
SEA DISTURBANCE—Where considerable, is shewn thus:

= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL Inches.
Sumburgh Head	45·6	37·8	42·0	40·3	4·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	46·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·0 ins. and upwards, in an anticyclone extending from the Atlantic over the west and south of Ireland.

Lowest, 29·5 ins. and less, in a depression lying over the northern parts of the Baltic.

Gradients slight. Barometer rising over Scandinavia and the northern parts of our Islands, but falling elsewhere.

TEMPERATURE

Highest, 58° at Biarritz, 56° at Lisbon, 55° at Perpignan, 53° at Rochefort, and 52° at Nice.

Lowest, 20° at Haparanda, 26° at Bodö, 30° at Hernösand, 32° at Stockholm, 35° at Fredericksund, and 36° at Yarmouth.

A considerable fall has taken place over the southeastern parts of England and also over Central Ireland.

WIND

Light or moderate from the NWⁿᵈ or Wⁿᵈ over the greater part of our Islands and France, but W or SWⁿᵈ in the southeast of England.

Light from the Eᵃˢᵗ or NEᵃˢᵗ in the east of Norway and also in the north of Denmark.

WEATHER

Fair over the United Kingdom as a whole, but dull over Central England, and showery at Malin Hd, Valencia Island, and Scilly.

Dull at most of the Continental stations, with rain at Paris and Wiesbaden.

Showers fell yesterday in the eastern and northern part of the United Kingdom as well as over the Netherlands and the central and southern parts of France.

A solar halo was seen at Oxford yesterday morning and lunar halos at several of our southern stations in the evening.

SEA

Moderate to smooth generally, but rather rough at Brest.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Local irregularities in pressure are reported over various parts of Western Europe, and showers are therefore likely in many districts, but the weather over our Islands will probably remain fair on the whole.

FORECASTS

For the 24 hours ending at NOON on 22ⁿᵈ Novr 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	Nᵗʰ winds, light or moderate; fair generally, but local showers.	6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	NWᵗʰ and Nᵗʰ winds, moderate; fair generally, but local showers.
2 ENGLAND N.E.	Same as No 5.		
3 ENGLAND EAST			
4 MIDLAND COUNTIES			
5 ENGLAND SOUTH	NWᵗʰ to Nᵗʰ winds, light; fair generally, but perhaps local showers.	WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. D.	THER. W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29.56	45	42	nnw	1	b	4
Sumburgh Head	29.69	45	44	nne	2	bc	3
Stornoway	29.77	46	48	n	6	r	6
Aberdeen	29.71	45	42	wnw	3	cp	2
Shields	29.74	49	46	sw	3	c	2
Ardrossan	29.73	48	46	sw	3	c	2
Malin Head ...	29.81	46	45	nw	5	o	3
Mullaghmore ...	29.94	47	43	nw	5	bc	3
Belmullet	29.98	48	44	nw	2	b	*

	BAR.	THER. D.	THER. W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.88	48	47	nnw	4	c	4
Valencia	30.06	50	48	n	2	bp	2
Scilly	30.02	52	50	nnw	4	c	4
Jersey	30.02	55	52	nnw	2	c	2
Dungeness	29.90	52	51	nnw	3	o	2
London	29.94	53	50	w	2	c	*
Yarmouth	29.90	49	46	wsw	3	bcm	3
Rochefort	?	56	54	se	3	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather this morning fine and bright over southeastern and southern Europe, with the greater part of the Mediterranean and fairer than of late over the United Kingdom and Norway; very unsettled over Sweden and the Gulf of Bothnia, with rain and snow in places, rain at Memel and Swinemunde. Fog very prevalent in the north of France. Slight rain later in the west and north of our Islands, and local showers in Norway. Lunar halos over England. Heavy rains in the south of France.

Temperature giving way over the British Isles and France, rising over Scandinavia and the Baltic. Morning reading below 60° all over Europe, below 50° except in the extreme southeastern and southern countries, and below 40° over the northern and eastern countries. Lowest of all 5°F. at St Petersburg, 10° at Archangel, 11° at Moscow, 14° at Kiev, and below 32° over Russia generally. Not exceeding 55° at any of our own stations during the day, but slightly exceeding 60° in the southwest of France.

Wind still light and anticyclonic over the southern and southeastern parts of Europe and over the northern half of Russia; moderate to strong and cyclonic elsewhere. Chiefly NW over our western coasts, W over England, the Channel, the Netherlands, and North Germany, SW and S over the Baltic (a moderate gale at Hangö and Helsingfors) E to NE over the northern half of Scandinavia. Becoming more N over our Islands later and decreasing in force.

Barometer highest (1) 30·3 ins. and more over all the southeastern parts of Europe and the eastern parts of the Mediterranean; (2) 30·2 ins and more to 30·1 ins. over northern Russia. Lowest (1) 29·5 ins. and less, in a complex depression over Scandinavia and Scotland; (2) 30·0 ins. and less, in a shallow system dispersing over southern Russia, and in another system over the Bay of Biscay near Rochefort. Latter disturbance growing rather deeper later; barometer rising on all our northern and northwestern coasts.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Sunday 22nd November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.60	17	NE	4	b	29.76	+ .16	14	13	− 6	NW	4	bc	*	23	−8	—
	Hernösand ...	29.72	28	N	2	b	29.95	+ .30	27	26	− 3	Z	0	o	*	34	23	—
	Stockholm ...	29.71	31	NNW	4	o	29.80	+ .30	25	24	− 7	NW	2	b	*	34	25	—
	Wisby	29.67	36	N	6	o	29.84	+ .33	34	31	− 4	NNE	4	o	*	39	32	0.08
	Bodö	29.71	37	W	1	o	29.83	+ .10	28	26	0	Z	0	b	1	39	25	—
	Christiansund	29.88	39	SSW	1	c	29.93	+ .14	39	36	+ 1	ESE	1	o	2	39	?	0.08
	Skudesnaes ...	29.84	40	ESE	2	o	29.89	+ .19	38	34	− 3	ESE	1	o	2	43	36	—
	Christiania Fjord (Færder)	29.82	33	N	3	b	29.93	+ .23	31	30	− 4	NNW	3	b	1	36	30	—
	Skagen (The Scaw)	29.78	36	ENE	1	o	29.89	+ .25	34	32	− 3	E	1	b	0	37	30	—
	Fanö	29.74	36	NE	4	c	29.84	+ .29	35	33	− 7	NE	4	c	*	43	34	—
BRITISH ISLANDS.	Sumburgh Head	29.86	39	N	2	o	29.87	+ .05	39	38	− 1	NNE	1	bc	2	42	37	—
	Stornoway ...	29.93	40	NE	3	r	29.89	+ .01	36	35	− 2	N	3	bc	3	45	34	0.02
	Wick	29.88	40	NW	2	o	29.88	+ .02	32	32	− 6	N	2	c	3	45	30	0.08
	Nairn	29.87	42	WNW	1	c	29.88	+ .04	37	36	− 4	SW	1	bc	2	43	35	—
	Aberdeen ...	29.86	38	NW	3	bc	29.90	+ .07	38	37	+ 1	W	2	c	3	43	37	0.05
	Leith	29.88	43	WSW	1	bc	29.87	+ .01	38	37	− 2	NW	2	ow	*	46	36	—
	Shields	29.80	42	WNW	2	r	29.83	+ .06	38	37	− 4	NW	3	cp	3	47	36	0.15
	Spurn Head ...	29.76	43	NNW	4	r	29.74	− .01	41	40	− 1	NNE	6	r	5	45	39	0.14
	York	29.82	39	NW	1	b	29.87	+ .01	36	36	− 4	NNW	1	b	*	46	35	0.03
	Loughborough	29.80	41	W	1	c	29.79	.00	37	36	− 4	W	2	cmw	*	45	34	—
	Ardrossan ...	29.96	44	N	1	o	29.90	+ .03	35	34	− 6	Z	0	bf	0	48	33	—
	Malin Head ...	29.92	45	N	4	b	29.91	+ .04	42	40	− 3	NNE	2	b	2	47	42	0.01
	Mullaghmore ...	29.97	45	N	5	c	29.93	− .01	41	40	− 3	SSE	1	cp	2	48	38	0.06
	Belmullet ...	30.01	39	N	2	b	29.94	− .05	36	35	− 6	SE	1	b	*	48	32	—
	Donaghadee ...	29.90	46	N	2	bc	29.89	+ .02	41	38	− 2	NNW	2	bc	0	48	40	0.01
	Liverpool (Bidston)	29.87	43	N	1	o	29.86	+ .01	39	36	− 4	NNE	1	bc	2	46	38	—
	Holyhead ...	29.88	45	N	3	o	29.87	+ .01	45	41	− 2	NE	3	b	2	49	44	0.09
	Parsonstown ...	29.97	40	Z	0	b	29.95	+ .04	36	35	− 1	Z	0	c	*	47	33	—
	Valencia	30.03	45	NW	1	c	29.97	− .09	33	33	− 11	Z	0	b	1	50	31	0.01
	Roche's Point ...	30.00	44	NW	3	b	29.95	− .05	39	37	− 4	NNW	1	b	3	48	38	—
	Pembroke (St. Ann's Hd.)	29.91	48	N	3	c	29.88	− .04	41	40	− 5	N	2	bc	2	48	41	0.06
	Scilly	29.93	48	NNW	5	c	29.90	− .06	47	45	0	NNW	4	bc	3	48	44	0.02
	Prawle Point ...	29.90	42	NW	3	b	29.88	− .05	42	39	+ 1	NW	2	bc	1	49	38	—
	Jersey (St. Aubin's)	29.89	46	NW	2	b	29.89	− .03	43	41	− 6	W	3	bcm	3	50	39	0.26
	Hurst Castle ...	29.85	45	N	2	o	29.85	− .03	41	41	− 1	NNW	1	m	1	50	39	—
	Dungeness ...	29.79	44	NW	2	bc	29.78	− .05	36	36	− 2	N	3	m	2	52	33	—
	London	29.83	45	NNW	1	o	29.81	− .03	35	34	− 2	W	1	bc	*	46	35	—
	Oxford	29.85	42	WNW	1	o	29.84	− .01	35	35	− 3	NW	1	b	*	45	35	—
	Cambridge ...	29.81	40	N	1	b	29.77	− .04	39	38	− 1	NW	1	c	*	46	34	—
	Yarmouth ...	29.75	41	NW	2	bc	29.71	− .08	38	37	+ 2	WSW	2	bcm	2	43	34	0.03
GERMANY & HOLLAND.	Cuxhaven ...	29.66	43	N	2	c	29.78	+ .01	40	39	− 4	E	3	c	*	?	38	0.08
	Berlin	29.70	45	W	2	bc	29.79	+ .06	41	40	− 5	SSE	2	f	*	48	39	—
	Wiesbaden ...	*	*	*	*	*	29.71	− .09	42	41	− 6	Z	0	r	*	48	39	0.20
	Munich	29.76	44	Z	0	r	29.75	− .09	37	37	− 1	NW	3	o	*	54	37	0.24
	The Helder ...	29.71	45	WNW	1	c	29.75	+ .01	36	35	− 11	SSE	1	b	1	48	36	0.08
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.80	− .02	39	?	− 4	SW	1	r	*	46	38	0.08
	Cape Gris Nez	29.77	44	WNW	3	o	29.78	− .02	42	41	− 4	W	4	m	4	46	41	—
	Paris	29.84	46	NW	1	o	29.86	− .02	38	38	− 8	SW	2	bc	*	49	36	0.08
	Brest	?	44	NW	3	c	?	?	43	43	− 6	N	2	c	3	50	39	0.16
	Lorient	29.92	47	NNW	2	b	29.91	− .02	42	40	− 7	N	1	b	3	52	41	—
	Rochefort ...	29.90	50	NNW	4	r	29.96	?	40	39	− 13	N	2	b	2	55	37	—
	Belfort	?	40	W	3	r	?	?	38	34	− 8	W	3	r	*	49	34	0.43
	Lyons	29.80	52	ESE	1	o	29.97	?	41	40	− 6	NNW	1	o	*	57	41	0.12
	Nice	29.84	50	E	1	b	29.72	− .18	51	46	− 1	Z	0	b	1	55	46	0.67
	Perpignan ...	29.92	58	NW	1	o	29.88	− .03	53	49	− 2	NW	2	o	*	65	50	—
	Biarritz	29.94	58	NW	4	o	29.90	− .05	51	49	− 7	ESE	2	f	2	59	48	0.12
PENINSULA.	Corunna	*	*	*	*	*	29.85	− .19	59	57	+ 2	ENE	3	r	2	57	48	0.04
	Lisbon	29.76	62	SE	3	o	29.63	− .27	60	59	+ 4	SSE	5	o	5	64	56	0.20

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Sunday, 22nd Nov^r, 1891.

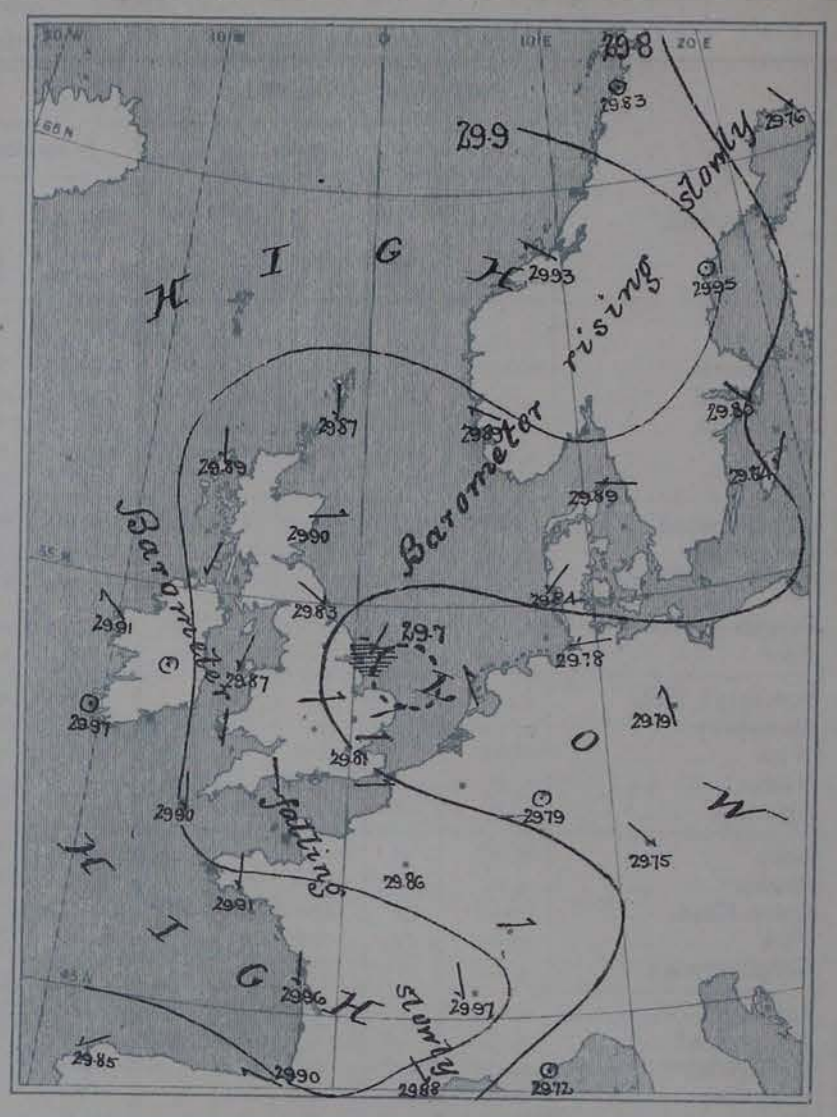
BAROMETER, WIND, AND SEA.

EXPLANATION OF MAP.

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

WIND - Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

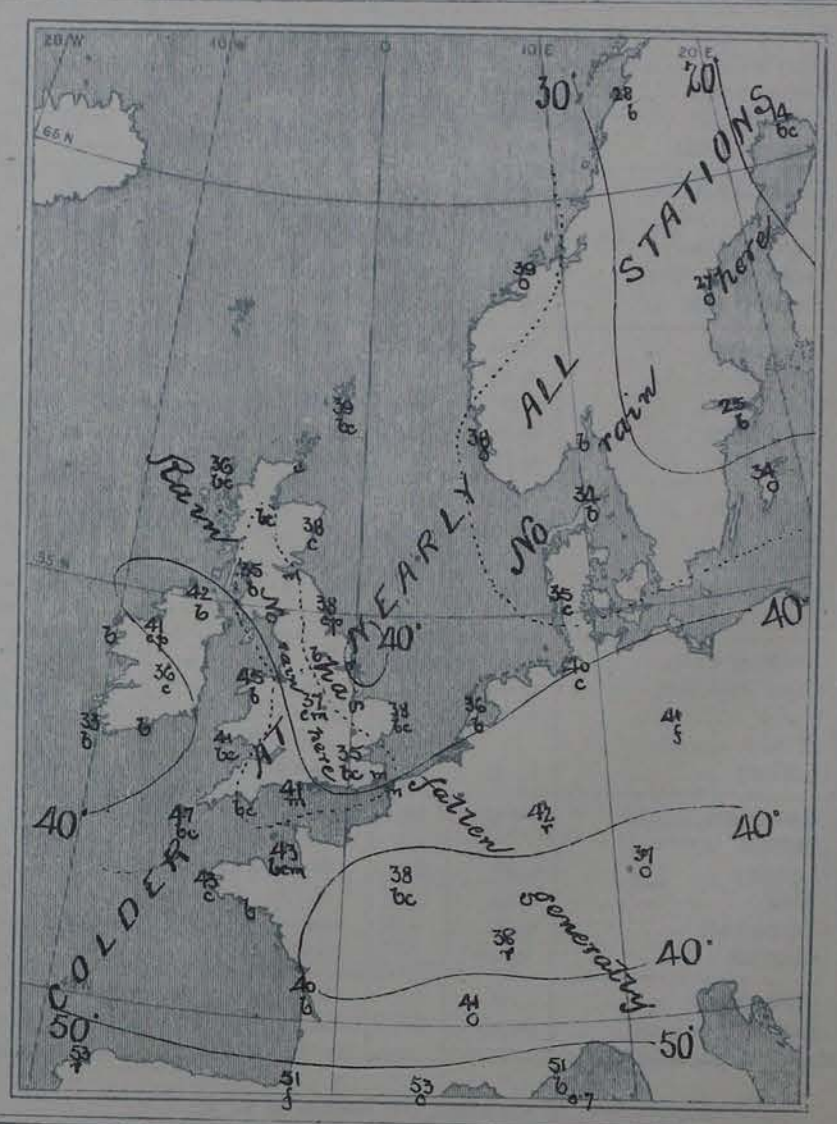
STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Mov.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	4·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	45·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29·9 ins. and upwards, in an irregularly shaped area extending from the Atlantic over Ireland, the Bay of Biscay and the more southern parts of France and also stretching past our extreme northern coasts to the central and southern parts of Scandinavia.

Lowest, 29·7 ins. and less, in a shallow depression lying over the southern part of the North Sea, and also in another disturbance lying off the southwest of Portugal.

Gradients slight and irregular. Barometer rising over Scandinavia, Denmark, Germany, and the greater part of France, but falling in our Islands, Spain and the extreme south of France.

TEMPERATURE

Highest, 60° at Lisbon, 53° at Coruña and Malaga, 51° at Nice and Biarritz and 43° at Jersey and Brest.

Lowest, 14° at Haparanda, 25° at Stockholm, 27° at Haparanda, 28° at Bodö, 31° at Yarmouth and 32° at Wick.

Sound fog occurred last night over the inland parts of the United Kingdom.

WIND

Light from the N.ward over the greater part of our Islands and France, but W.ly at some of our southernmost stations and S.E.ly in the northwest of Ireland.

Light or moderate from the E.ward on the eastern shores of the North Sea; N.ly or N.W.ly in Sweden.

WEATHER

Fair over the greater part of Western Europe, but dull in places, and showery on the northeast coasts of England as well as at Valentia.

Showers fell yesterday in many parts of the United Kingdom.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 23rd Novr. 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	None issued	6 SCOTLAND WEST	None issued
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	None issued

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29.77	43	38	ESE	2	c	3
Sumburgh Head	29.84	41	39	N	1	b	3
Stornoway	29.91	44	43	NE	3	bc	3
Aberdeen	29.84	42	40	NW	3	cp	3
Shields	29.79	46	43	WNW	2	c	2
Ardrossan	29.86	47	44	N	1	b	1
Malin Head ...	29.89	47	44	N	3	bc	5
Mullaghmore ...	29.95	46	44	NW	4	cp	2
Belmullet	29.99	47	43	NNW	2	c	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.87	48	45	NNW	1	cp	2
Valencia	30.02	50	47	NW	1	c	2
Scilly	29.93	48	46	NW	5	cq	4
Jersey	29.88	50	45	S	3	bc	2
Dungeness	29.79	47	45	NW	2	bc	1
London	29.80	46	44	WNW	1	ogm	*
Yarmouth	29.76	43	41	WNW	2	bem	2
Rochefort	29.88	50	49	N	4	f	?

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over the southern shores of the Mediterranean, and temporarily fine in many parts of the British Islands, cloudy or overcast and unsettled over the Continent generally, with rain in several parts of France and Germany, snow at Moscow; rain showers at some of our western stations also. Some rain later at most stations over the United Kingdom, France, Germany, and the Baltic Provinces, and the north of Italy, snow in other parts of Russia. Gloomy, foggy conditions at times in many localities.

Temperature showing a further decrease over the British Islands and northwestern Europe, but an increase over southern and eastern Europe and over Finland. Morning reading 60° and more over Algeria and the south of Italy, and exceeding 50° over southern and southwestern Europe only, above 40° over Central Europe, but below 40° over Norway, Scotland, and central Ireland and much lower over Russia. Lowest 4° Frost at Archangel, 17° at St Petersburg, 19° at Moscow, 20° at Haparanda, 23° at Kharkov. Exceeding 50° in the extreme southwest and southeast of our Islands later, exceeding 60° in the extreme south of France and over northern Italy; touching 70° in the south of Italy, and 70° to 79° in various parts of Algeria.

Wind light to moderate from between N. and NW. over the major part of our Islands, France, and the North Sea, NW. over Germany, SW. over Algeria and Poland, S. over Russia, SE. over Finland, variable from E. over northern Scandinavia. Very variable over the Mediterranean. More N. in our Islands later and shifting to that quarter over Sweden, Finland and the Baltic Provinces, but becoming very light in force.

Barometer highest 30·1 ins. and more to 30·0 ins. over the Iberian Peninsula, and exceeding 30·0 ins. over the southwest of Ireland; 30·1 ins. and more to 30·0 ins. over the Black Sea and Southeastern Europe generally. Lowest 29·4 ins. and less, in a depression over the Baltic and Gulf of Finland, and below 29·9 ins. over the east of England and eastern half of France. Rising slowly in Ireland, Scotland, and Norway rain; Baltic depression moving northeastwards quickly and beginning to fill up.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Monday, 23rd November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.97	11	NW	2	b	30.19	+.43	8	8	-6	?	2	b	*	19	?	-
	Hernösand ...	30.06	29	N	2	0	30.21	+.26	20	20	-7	N	2	b	*	30	?	-
	Stockholm ...	30.08	26	Z	0	b	30.16	+.36	28	27	+3	Z	0	0	*	32	23	-
	Wisby	30.04	33	NE	4	0	30.13	+.29	31	29	-3	ESE	4	b	*	37	30	-
	Bodö	29.97	29	SSW	2	c	30.02	+.19	28	25	0	E	2	b	1	29	25	-
	Christiansund	29.97	34	ESE	3	b	29.95	+.02	35	32	-4	ESE	4	0	2	39	32	-
	Skudesnaes ...	29.99	37	ESE	4	b	29.97	+.08	39	34	+1	ESE	4	0	3	?	37	-
	Christiania Fjord (Færder)	30.03	33	NNE	3	b	30.07	+.14	34	33	+3	NNE	4	0	2	34	31	-
	Skagen (The Scaw)	29.96	36	SE	2	bc	30.00	+.11	36	34	+2	ESE	4	0	1	36	32	-
	Fanö	29.85	37	ENE	4	c	29.87	+.03	38	38	+3	E	4	0	*	39	35	-
BRITISH ISLANDS.	Sumburgh Head	29.82	38	Z	0	c	29.75	-.12	41	40	+2	SE	3	0	3	43	37	0.23
	Stornoway ...	29.79	37	N	2	b	29.66	-.23	42	42	+6	SW	6	c	5	45	31	-
	Wick	29.81	38	NW	2	0	29.72	-.16	40	38	+8	S	3	c	3	40	32	0.12
	Nairn	29.81	35	Z	0	bc	29.73	-.15	30	29	-7	Z	0	bc	0	42	25	-
	Aberdeen ...	29.86	38	SW	1	c	29.82	-.08	34	33	-4	WSW	1	cm	3	42	33	0.04
	Leith	29.85	44	NW	1	m	29.83	-.04	31	31	-7	Z	0	m	*	43	28	-
	Shields	29.80	43	NE	3	c	29.79	-.04	37	36	-1	NW	2	r	3	45	33	0.04
	Spurn Head ...	29.68	42	NNE	4	bcp	29.76	+.02	43	41	+2	ENE	3	bc	3	44	39	0.16
	York	29.79	38	NNW	1	b	29.82	+.01	37	36	+1	N	1	c	*	43	32	0.04
	Loughborough	29.75	39	N	2	r	29.79	.00	36	35	-1	WNW	1	cmw	*	46	35	0.07
	Ardrossan ...	29.84	40	Z	0	0	29.81	-.09	37	35	+2	Z	0	c	0	43	33	-
	Malin Head ...	29.82	42	SSE	1	0	29.76	-.15	39	38	-3	S	3	bc	2	44	38	0.07
	Mullaghmore ...	29.85	41	SW	2	c	29.80	-.13	41	41	0	SW	4	0 p	3	45	39	0.15
	Belmullet ...	29.83	41	WNW	1	bc	29.78	-.16	41	40	+5	S	1	b	*	46	34	0.20
	Donaghadee ...	29.77	36	WNW	2	bc	29.84	-.05	34	34	-7	SW	2	b	0	44	30	0.01
	Liverpool (Bidston)	29.85	40	N	1	bc	29.85	-.01	36	35	-3	N	1	b	2	43	34	-
	Holyhead ...	29.84	44	NNE	3	c	29.84	-.03	35	35	-10	SE	1	bmw	2	46	35	-
	Parsonstown ...	29.86	41	Z	0	c	29.86	-.09	34	33	-2	Z	0	c	*	43	33	-
	Valencia	29.89	39	Z	0	cv	29.87	-.10	44	42	+11	E	1	0	2	48	33	0.01
	Roche's Point ...	29.88	43	N	1	bc	29.88	-.07	35	33	-4	N	1	b	3	47	34	-
	Pembroke (St. Ann's Hd.)	29.83	42	NNE	3	c	29.85	-.03	41	40	0	NE	1	b	1	47	38	0.02
	Scilly	29.83	47	N	4	bc	29.83	-.07	45	42	-2	NE	1	bc	0	49	42	-
	Prawle Point ...	29.83	41	WNW	2	c	29.84	-.04	36	34	-4	NNE	2	b	1	49	34	-
	Jersey (St. Aubin's)	29.82	44	WNW	3	bcp	29.85	-.04	39	37	-4	NNW	2	bcm	2	51	35	0.04
	Hurst Castle ...	29.79	41	N	2	c	29.83	-.02	33	32	-8	NNE	1	m	1	47	32	-
	Dungeness ...	29.75	39	NW	3	c	29.78	.00	38	38	+2	NW	2	mw	1	49	32	-
	London	29.76	42	WNW	2	b	29.81	.00	38	37	+3	Z	0	ogm	*	44	35	0.01
	Oxford	29.79	39	NW	2	0	29.84	.00	34	33	-1	NW	2	bc	*	43	32	-
	Cambridge ...	29.75	40	NW	1	r	29.82	+.05	37	37	-2	NNW	1	0	*	42	36	0.03
	Yarmouth ...	29.69	41	W	2	cm	29.74	+.03	36	36	-2	W	1	bcf	2	43	35	0.19
GERMANY & HOLLAND.	Cuxhaven ...	29.84	40	E	1	bc	29.86	+.08	40	39	0	ESE	3	f	*	42	39	-
	Berlin	29.88	39	SE	2	r	29.88	+.09	38	37	-3	E	3	0	*	43	37	0.16
	Wiesbaden ...	*	*	*	*	*	29.85	+.06	37	36	-5	Z	0	0	*	45	36	0.35
	Munich	29.90	35	Z	0	b	29.85	+.10	28	28	-9	E	2	0	*	37	29	0.04
	The Helder ...	29.78	40	SSE	1	b	29.81	+.06	38	38	+2	SSE	1	f	1	43	36	-
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.81		34	34		WSW	1	f	*	45	33	0.28
	Cape Gris Nez	29.74	44	W	4	bc	29.75	-.03	42	41	0	NW	3	0	2	46	36	-
	Paris	29.84	41	S	2	0	29.84	-.02	37	36	-1	SW	1	0	*	46	36	0.04
	Brest	?	44	NE	2	c	?	?	44	42	+1	ENE	1	0	2	52	41	-
	Lorient	29.83	48	Z	0	b	29.79	-.12	41	39	-1	NE	2	b	2	54	39	-
	Rochefort ...	29.84	44	NE	3	b	29.76	-.20	39	38	-1	E	4	bc	*	55	36	-
	Belfort	?	38	W	3	c	?	?	28	24	-10	N	3	f	*	47	20	-
	Lyons	29.89	41	E	1	b	29.85	-.12	35	34	-6	NE	1	0	*	48	34	-
	Nice	29.71	53	W	1	0	29.78	+.06	49	45	-2	NE	2	0	2	63	46	-
	Perpignan ...	29.83	50	Z	0	0	29.73	-.15	48	48	-5	NE	2	0	*	62	47	0.08
	Biarritz	29.74	50	E	3	r	29.63	-.27	47	46	+4	E	3	r	1	52	45	0.39
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	29.50	59	S	3	0	29.85	+.22	58	53	-2	WSW	4	c	?	63	57	0.35

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Monday, 23rd Novr. 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch.
Changes since previous morning are stated in words.

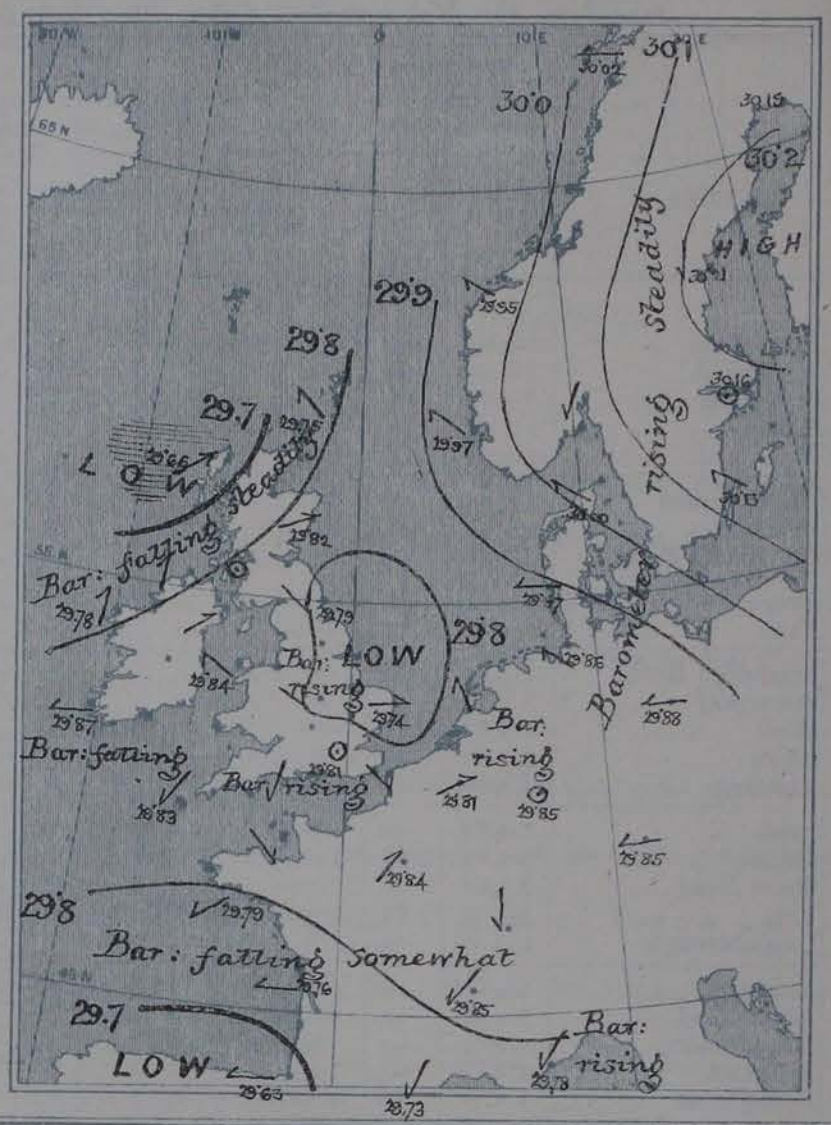
WIND - Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29 · 683
Stornoway	29 · 699
Wick	29 · 722
Nairn	29 · 738
Aberdeen	29 · 758
Leith	29 · 789
Shields	29 · 813
Spurn Head	29 · 842
York	29 · 846
Loughborough	29 · 877
Ardrossan	29 · 791
Mullaghmore	29 · 780
Donaghadee	29 · 810
Holyhead	29 · 835
Liverpool	29 · 851
Parsonstown	29 · 847
Valencia	29 · 869
Roche's Point	29 · 865
Pembroke	29 · 864
Scilly	29 · 897
Prawle Point	29 · 911
Jersey	29 · 928
Hurst Castle	29 · 902
Dover	29 · 893
LONDON	29 · 898
Oxford	29 · 896
Cambridge	29 · 887
Yarmouth	29 · 865



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

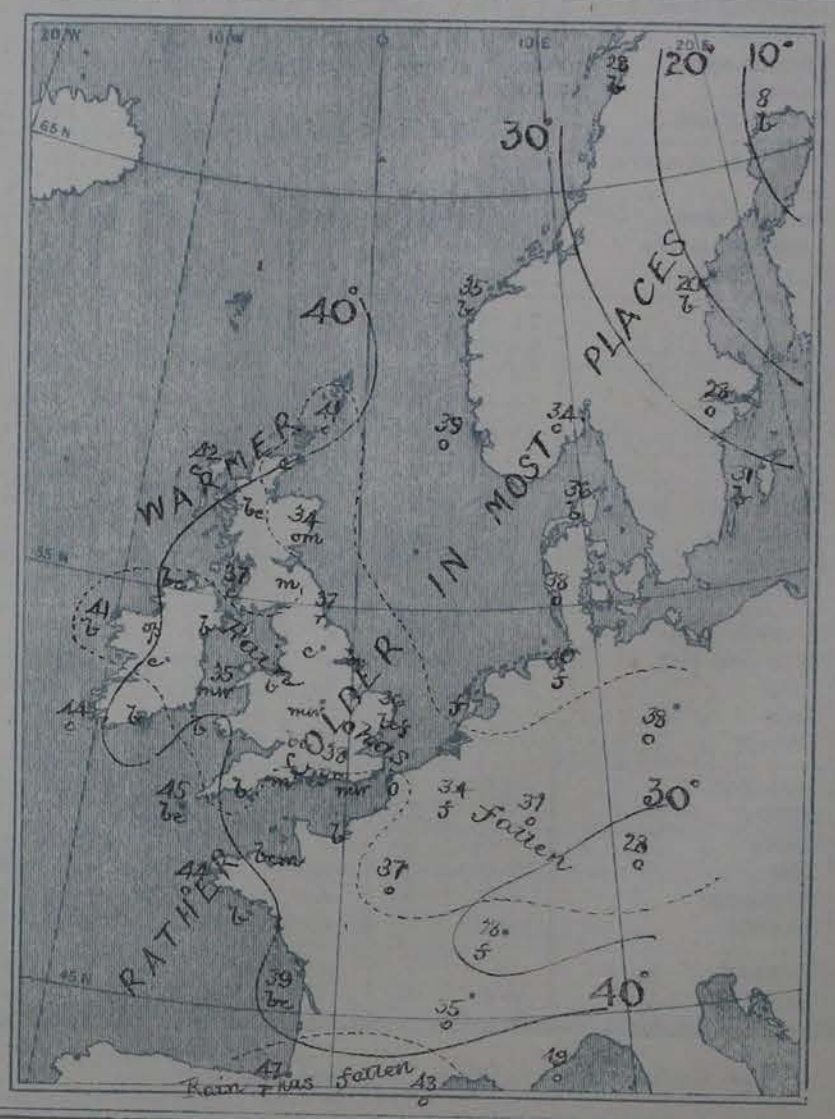
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL,

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches.)
Sumburgh Head	45 · 6	37 · 8	42 · 0	40 · 3	4 · 16
Stornoway	43 · 2	37 · 0	41 · 7	40 · 7	4 · 70
Wick	45 · 1	36 · 1	41 · 4	39 · 8	2 · 93
Nairn	45 · 3	35 · 7	39 · 8	38 · 2	2 · 29
Aberdeen	46 · 2	36 · 5	40 · 5	38 · 7	3 · 14
Leith	48 · 1	37 · 0	41 · 7	40 · 0	2 · 20
Shields	47 · 3	37 · 9	42 · 1	40 · 5	2 · 61
Spurn Head	46 · 8	40 · 2	43 · 2	41 · 9	2 · 40
York	47 · 5	36 · 4	40 · 6	39 · 3	2 · 19
Loughborough	48 · 0	36 · 6	40 · 5	39 · 3	2 · 24
Ardrossan	47 · 8	39 · 1	43 · 1	41 · 3	3 · 88
Mullaghmore	49 · 6	41 · 2	45 · 1	43 · 1	4 · 48
Donaghadee	48 · 3	39 · 2	43 · 2	42 · 0	3 · 20
Holyhead	49 · 7	42 · 9	45 · 8	44 · 0	3 · 88
Liverpool	47 · 8	39 · 6	42 · 5	40 · 7	2 · 96
Parsonstown	49 · 1	37 · 1	41 · 9	40 · 2	2 · 83
Valencia	52 · 3	43 · 0	47 · 4	45 · 5	5 · 42
Roche's Point	51 · 1	42 · 0	46 · 1	44 · 5	4 · 62
Pembroke	50 · 1	43 · 8	46 · 9	45 · 1	4 · 04
Scilly	52 · 4	46 · 7	50 · 0	48 · 0	3 · 72
Prawle Point	51 · 1	41 · 9	46 · 2	44 · 7	3 · 20
Jersey	51 · 9	44 · 1	47 · 7	45 · 8	4 · 30
Hurst Castle	50 · 5	40 · 6	44 · 9	44 · 0	3 · 05
Dover	49 · 3	40 · 6	44 · 3	42 · 8	3 · 48
LONDON	49 · 3	38 · 0	42 · 2	40 · 8	2 · 23
Oxford	48 · 2	37 · 6	41 · 2	40 · 0	2 · 31
Cambridge	48 · 5	35 · 8	40 · 7	39 · 9	2 · 01
Yarmouth	47 · 5	39 · 0	43 · 1	42 · 0	3 · 06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 ins. and upwards, over the Gulf of Bothnia

Lowest, 29·7 ins. and less, in a depression lying off the northwest of Scotland and also in another disturbance lying over the southwest of France and the northeast of Spain; 29·8 ins. and less, in a shallow area lying off the east of England.

Gradients slight and irregular. Barometer rising in Scandinavia, Denmark, the Netherlands, and the south of England, but falling elsewhere, most in the extreme northwest of our Islands.

TEMPERATURE

Highest, 58° at Lisbon, 49° at Nice, 48° at Perpignan, 47° at Biarritz, 45° at Pilla, and 44° at Valencia Island and Brest.

Lowest, 8° at Haparanda, 20° at Hernösand, 28° at Bodö, Stockholm, Belfort, and Munich, and 30° at Nairn.

Frost occurred last night in many parts of the United Kingdom; at Nairn the sheltered thermometer fell to 25°.

WIND

S. or SW. on our extreme north and northwest coasts; strong in force at Stornoway.

Light from the N. over the greater part of England and from the E. or NE. in the west and south of France

Moderate from E. or SE. on the eastern shores of the North Sea; calm or light from the N. in Sweden.

WEATHER

Fair over the greater part of Western Europe, but dull in places, with fog over the Netherlands, and with mist in the southeast of England. Rain is falling at Biarritz.

Showers fell yesterday in many parts of Western Europe, and lightning was seen at Jersey in the evening.

SEA

Smooth on nearly all coasts, but rather rough at Stornoway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any very decided change in the weather, but it is possible that the depression off the northwest of Scotland may spread a little to the southeastward in the course of the ensuing twenty four hours.

FORECASTS

For the 24 hours ending at NOON on 24th Nov. 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S. and SW. winds, fresh; fair to dull and some rain.	6 SCOTLAND WEST	Same as No 1
1 SCOTLAND EAST	S. winds, light or moderate; fair generally	7 ENGLAND N.W.	Same as No 5.
2 ENGLAND N.E.	Same as No 5.	8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	SW. winds, freshening; fair to dull and some rain.
4 MIDLAND COUNTIES		10. IRELAND SOUTH	Variable breezes, finally S.; fair to dull and some rain.
5 ENGLAND SOUTH	Light Variable airs; fair generally but with fog or mist in many places.	WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29·97	40	35	ESE	2	0	2
Sumburgh Head							
Stornoway	29·84	44	43	L	0	b	2
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29·86	44	40	NE	1	b	2
Mullaghmore ...							
Belmullet	29·88	44	43	S	1	bc	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29·84	45	41	NNE	3	b	2
Valencia							
Scilly							
Jersey	29·83	49	45	W	3	bc	3
Dungeness	29·76	46	44	W	3	c	2
London							*
Yarmouth							
Rochefort	29·93	51	48	L	0	b	?

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning, though fine and bright in many parts of the British Islands, dull and unsettled as a whole over Europe generally; rain falling in many places – notably over Germany and the east of France, snow at Moscow. A little cold rain later in many parts of our Islands, and larger quantities over Germany, Belgium, the SW of France and at Lisbon.

Temperature rises over Russia, fallen elsewhere. Morning readings above 60° on the southern side of the Mediterranean, much lower elsewhere; below 40° in most places (not over Germany, Austria and Hungary) and as low as (1) –1° at Archangel + 14° at Haparanda and Uleaborg, 15° at Kuopio, 22° at St Petersburg, 25° at Stockholm, and 28° at Bodö, (2) 35° to 37° over the inland parts of the British Islands. Not touching 50° at any of our own stations during day but reaching 49° on some parts of our southern coasts, and 42° to 46° inland.

Wind moderate NW. to N. over Finland and the Baltic, light and variable from same quarters over St Britain and France. Extremely variable elsewhere and almost dead calm over inland parts of Europe. Not much change later but some tendency for SW. winds shown on our extreme northwestern coasts.

Barometer – Highest (1) 29.9 ins. and more over the southern half of Norway and Sweden (2) over Ireland, many parts of the Bay of Biscay and southwest of France; (3) over the southeastern parts of the Mediterranean. Lowest (1) 29.3 ins. and less over the northeast of Russia; (2) below 29.8 ins. over nearly the whole of central and southeastern Europe; (3) below 29.7 ins. in the southwest of Spain and over Morocco. Falling irregularly in our Islands later, rising slightly over Scandinavia.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 15TH TO 21ST NOVEMBER 1891.

The unsettled weather which prevailed over northwestern Europe during the week ending the 14th November continued throughout the earlier half of period under review and although no gales of any importance were experienced on our coasts rain was general and in many places heavy. Towards the latter part of the week, however, a decided improvement took place, and with the exception of showers at isolated stations the weather of the past two days was mostly fair and dry.

At the commencement of the time a well marked, though somewhat shallow, depression advanced eastwards along the Channel, and on the night of the 15th and the following day the disturbance travelled northeastwards across the southeast of England, where it gradually dispersed. The progress of the depression was attended by heavy rain at some of our southern and southeastern stations, and by much gloom and mist over our inland districts, but no serious increase of wind took place on any part of our coasts.

As the system disappeared a series of depressions began to skirt our northwest coasts and strong winds from the S. or SW. set in over the western and northern parts of the Kingdom generally while rain fell in all districts.

On the night of the 19th, however, the disturbances passed away to the NE. and as the barometer rose steadily on our W. and N. coasts while it fell at our southern and the Continental stations, slight gradients for NW. winds gradually spread over the Kingdom. Light breezes from that quarter or from N. therefore set in generally with improving weather, but with slight showers in places.

Temperature was high during the middle of the week but low at the commencement and the close of the period, with slight ground frosts in some parts of St Britain.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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TERMS:—*For* Daily Weather Report, forwarded by Book Post, £1 0 0 per annum
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DAILY WEATHER REPORT.

for Tuesday 24th November 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Wet.	Difference from 8 a.m. yesterday.	Wind. Direc.	Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30.27	6	SE	0	0	30.22	+.03	15	14	+7	S	2	bc	*	21	2	—
	Hernösand ...	30.25	27	N	2	b	30.26	+.05	30	27	+10	SSE	2	c	*	?	16	—
	Stockholm ...	30.23	30	S	0	d	30.25	+.09	30	28	+2	SE	0	bc	*	32	25	—
	Wisby	30.16	32	SE	4	c	30.17	+.04	28	28	−3	ESE	4	b	*	34	28	—
	Bodö	30.01	26	E	2	b	29.94	−.08	26	24	−2	E	2	0	1	28	21	—
	Christiansund	29.95	36	SSW	6	b	29.89	−.06	35	34	+4	ESE	5	c	2	39	35	—
	Skudesnaes ...	30.00	41	ESE	6	0	29.98	+.01	42	38	+3	SE	6	0	4	?	39	—
	Christiania Fjord (Færder)	30.14	33	NNE	3	b	30.16	+.09	34	31	0	E	3	bc	1	36	32	—
	Skagen (The Scaw)	30.11	36	SE	5	0	30.12	+.12	34	32	−2	ESE	2	bc	1	37	32	—
	Fanö	29.99	40	E	3	c	30.05	+.18	32	31	−6	ESE	4	b	*	41	32	—
BRITISH ISLANDS.	Sumburgh Head	29.73	43	SSE	2	bc	29.77	+.02	39	38	−2	S	0	0	3	44	38	0.20
	Stornoway ...	29.72	40	W	3	c	29.77	+.11	33	32	−9	N	2	b	3	43	30	0.08
	Wick	29.72	39	S	1	c	29.79	+.07	34	34	−6	NW	1	bc	1	42	33	0.04
	Nairn	29.75	37	S	0	c	29.79	+.06	35	33	+5	S	0	b	1	42	25	0.04
	Aberdeen ...	29.83	36	SSW	2	b	29.84	+.02	36	35	+2	W	1	0	3	40	33	—
	Leith	29.84	36	S	0	c	29.86	+.03	37	37	+6	SW	2	m	*	38	27	—
	Shields	29.86	41	S	0	0	29.84	+.05	36	34	−1	WSW	2	cm	2	44	32	0.09
	Spurn Head ...	29.84	42	N	1	c	29.88	+.12	37	36	−6	SSE	2	cm	3	46	36	0.04
	York	29.86	38	NNW	1	c	29.90	+.08	33	33	−4	N	1	f	*	43	31	—
	Loughborough	29.85	31	NW	1	b	29.89	+.10	33	32	−3	ESE	1	of	*	44	27	—
	Ardrossan ...	29.81	43	SE	1	7	29.86	+.05	36	35	−1	ENE	1	b	1	44	33	0.11
	Malin Head ...	29.78	40	NW	5	07	29.85	+.09	35	34	−4	S	3	b	2	45	35	0.17
	Mullaghmore ...	29.83	41	NNW	4	07	29.89	+.09	38	36	−3	S	0	bc	2	45	36	0.23
	Belmullet ...	29.85	41	SW	2	07	29.88	+.16	36	35	−5	W	2	c7	*	44	34	0.15
	Donaghadee ...	29.78	38	SW	2	0	29.88	+.04	34	33	0	W	3	b	1	44	33	0.03
	Liverpool (Bidston)	29.89	39	WNW	1	0	29.90	+.05	37	36	+1	S	2	0	2	43	34	0.06
	Holyhead ...	29.81	42	S	0	bc	29.88	+.04	44	42	+9	NW	3	09	2	45	35	0.02
	Parsonstown ...	29.85	38	S	0	bc	29.93	+.07	29	29	−5	S	0	f	*	43	29	—
	Valencia	29.89	44	WSW	1	09	29.96	+.09	33	33	−11	S	0	b	1	48	32	0.11
	Roche's Point ...	29.89	42	S	0	bc	29.96	+.08	37	35	+2	NW	2	bc	3	48	34	0.01
	Pembroke (St. Ann's Hd.)	29.89	43	E	1	bc	29.92	+.07	39	38	−2	NE	1	0m79	1	46	38	—
	Scilly	29.88	46	NNE	2	c	29.91	+.08	46	44	+1	NNW	1	c	2	49	42	—
	Prawle Point ...	29.88	38	NE	2	b	29.90	+.06	34	33	−2	N	1	bm	1	45	33	—
	Jersey (St. Aubin's)	29.85	45	ENE	2	bc	?29.87	+.02	44	40	+5	ENE	2	om	2	48	37	—
	Hurst Castle ...	29.88	34	NE	2	b	29.90	+.07	35	35	+2	NE	3	m	0	44	32	—
	Dungeness ...	29.85	40	NNW	3	c	29.89	+.09	42	41	+4	SE	3	c	1	43	36	—
	London	29.88	40	WNW	1	0	29.91	+.16	38	37	0	E	1	of	*	40	34	—
	Oxford	29.91	35	NW	1	0	29.92	+.08	35	35	+1	S	0	of	*	38	34	—
	Cambridge ...	29.88	39	S	0	0	29.92	+.10	37	37	0	S	0	f	*	46	34	—
	Yarmouth ...	29.84	37	SW	2	7	29.91	+.17	37	37	+1	NW	1	f	3	39	33	0.01
GERMANY & HOLLAND.	Cuxhaven ...	29.92	40	ESE	2	c	30.03	+.17	37	34	−3	E	2	b	*	42	34	—
	Berlin	29.92	36	NW	3	0	29.95	+.07	33	32	−5	NW	3	0	*	37	32	—
	Wiesbaden ...	*	*	*	*	*	29.98	+.13	36	34	−1	E	1	0	*	41	34	—
	Munich	29.93	31	N	2	0	29.93	+.08	29	29	+1	NE	5	0	*	36	28	—
	The Helder ...	29.95	38	SSE	1	f	30.00	+.19	37	36	−1	E	1	f	1	37	36	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.94	+.13	30	30	−4	ESE	3	f	*	41	30	—
	Cape Gris Nez	29.84	35	NE	2	bc	29.86	+.11	33	33	−9	E	3	m	2	45	32	—
	Paris	29.90	37	ENE	2	0	29.95	+.01	33	32	−4	NE	3	0	*	41	32	—
	Brest	29.85	42	E	1	bc	?	?	42	41	−2	NE	1	c	2	52	37	—
	Lorient	29.77	44	ENE	4	b	29.82	+.03	41	38	0	NNE	3	c	2	48	38	—
	Rochefort ...	29.71	41	ENE	5	0	?29.69	−.09	38	37	−1	N	5	0	*	48	36	0.12
	Belfort														*			
	Lyons	29.83	37	N	2	7	29.76	−.09	37	37	+2	N	1	f	*	38	35	0.08
	Nice	29.76	45	NE	3	f	29.86	+.02	50	50	+1	E	2	f	3	52	48	0.32
	Perpignan ...	29.69	50	W	1	0	29.66	−.07	52	52	+4	SW	1	0	*	53	48	—
	Biarritz	29.52	53	E	5	0	29.70	+.07	55	52	+8	NW	4	0	2	?55	46	0.08
PENINSULA.	Corunna																	
	Lisbon	29.61	55	S	0	b	29.65	−.20	55	55	−3	NNE	3	7	?	64	55	0.16

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on 24th November, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch.
Changes since previous morning are stated in words.

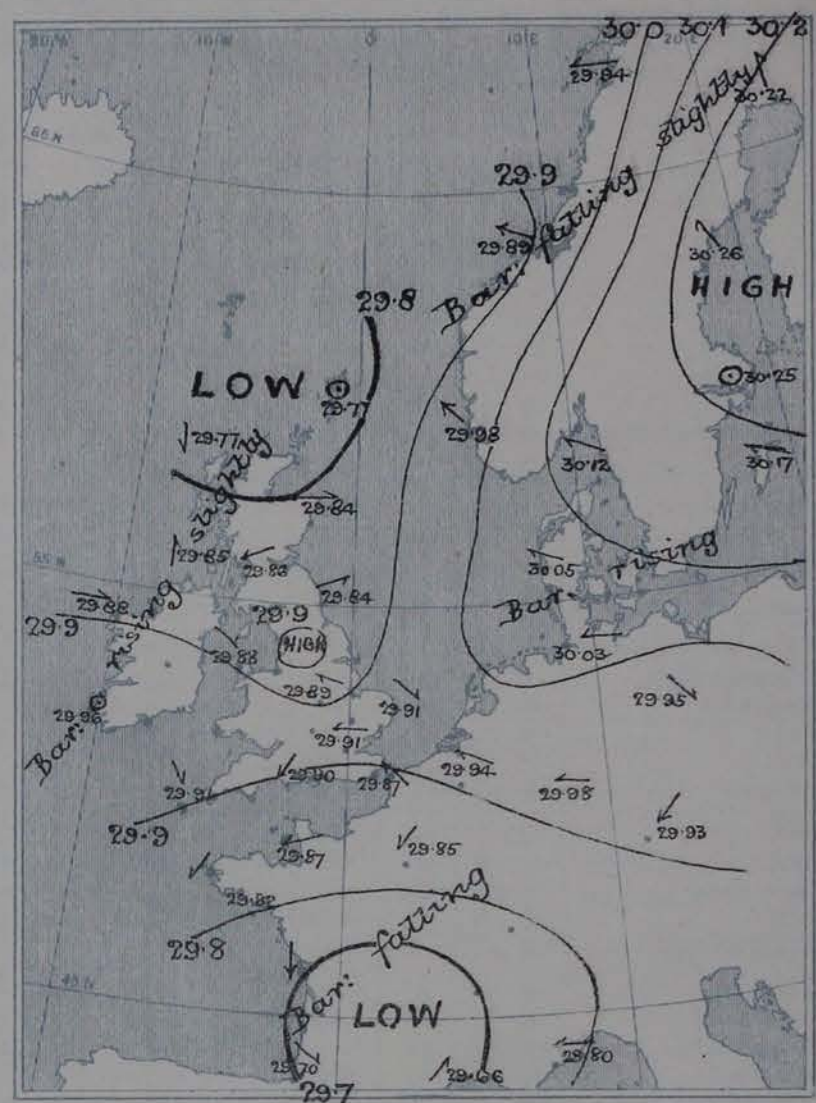
WIND - Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE - Where considerable, is shewn thus:
= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29 · 683
Stornoway	29 · 699
Wick	29 · 722
Nairn	29 · 738
Aberdeen	29 · 758
Leith	29 · 789
Shields	29 · 813
Spurn Head	29 · 842
York	29 · 846
Loughborough	29 · 877
Ardrossan	29 · 791
Mullaghmore	29 · 780
Donaghadee	29 · 810
Holyhead	29 · 835
Liverpool	29 · 851
Parsonstown	29 · 847
Valencia	29 · 865
Roche's Point	29 · 865
Pembroke	29 · 864
Scilly	29 · 897
Prawle Point	29 · 914
Jersey	29 · 928
Hurst Castle	29 · 902
Dover	29 · 893
LONDON	29 · 898
Oxford	29 · 896
Cambridge	29 · 887
Yarmouth	29 · 865



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

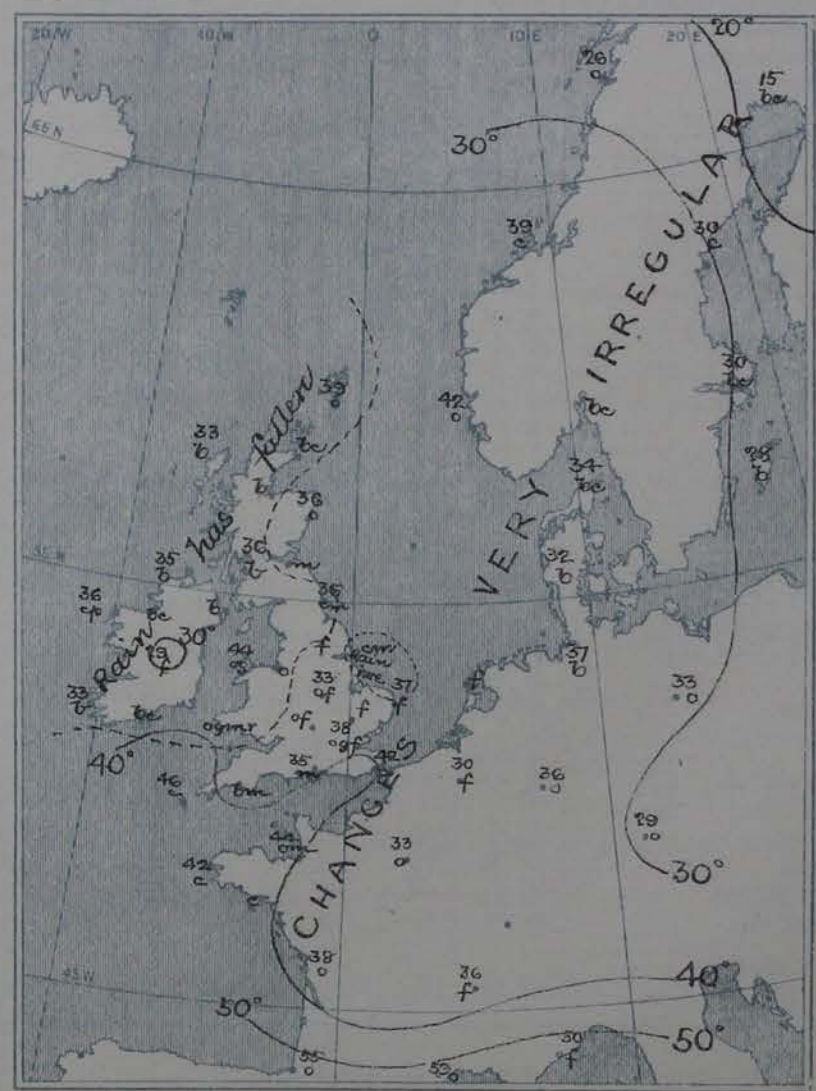
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL (Inches.)
Sumburgh Head	45 · 6	37 · 8	42 · 0	40 · 3	4 · 16
Stornoway	43 · 2	37 · 0	41 · 7	40 · 7	4 · 70
Wick	46 · 1	36 · 1	41 · 4	39 · 8	2 · 93
Nairn	45 · 3	35 · 7	39 · 8	38 · 2	2 · 29
Aberdeen	46 · 2	36 · 5	40 · 5	38 · 7	3 · 14
Leith	48 · 1	37 · 0	41 · 7	40 · 0	2 · 20
Shields	47 · 3	37 · 9	42 · 1	40 · 5	2 · 61
Spurn Head	46 · 8	40 · 2	43 · 2	41 · 9	2 · 40
York	47 · 5	36 · 4	40 · 6	39 · 3	2 · 19
Loughborough	48 · 6	36 · 6	40 · 5	39 · 3	2 · 24
Ardrossan	47 · 8	39 · 1	43 · 1	41 · 3	3 · 88
Mullaghmore	49 · 0	41 · 2	45 · 1	43 · 1	4 · 48
Donaghadee	48 · 3	39 · 2	43 · 2	42 · 0	3 · 20
Holyhead	49 · 7	42 · 9	45 · 8	44 · 0	3 · 88
Liverpool	47 · 8	39 · 6	42 · 5	40 · 7	2 · 96
Parsonstown	49 · 1	37 · 1	41 · 9	40 · 2	2 · 83
Valencia	52 · 3	43 · 0	47 · 4	45 · 5	5 · 42
Roche's Point	51 · 1	42 · 0	46 · 1	44 · 5	4 · 62
Pembroke	50 · 1	43 · 8	46 · 9	45 · 1	4 · 04
Scilly	52 · 4	46 · 7	50 · 0	48 · 0	3 · 72
Prawle Point	51 · 1	41 · 9	46 · 2	44 · 7	3 · 20
Jersey	51 · 9	44 · 1	47 · 7	45 · 8	4 · 30
Hurst Castle	50 · 5	40 · 6	44 · 9	44 · 0	3 · 05
Dover	49 · 3	40 · 6	44 · 3	42 · 8	3 · 48
LONDON	49 · 3	38 · 0	42 · 2	40 · 8	2 · 23
Oxford	48 · 2	37 · 6	41 · 2	40 · 0	2 · 31
Cambridge	48 · 5	35 · 8	40 · 7	39 · 9	2 · 01
Yarmouth	47 · 5	39 · 0	43 · 1	42 · 0	3 · 06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards in Sweden.
Lowest 29.7 ins. and less in a shallow depression lying over the southern parts of France; 29.8 ins. and less in another shallow system lying off the north of Scotland.
Gradients slight and irregular. Barometer rising generally, but falling a little over the central parts of France.

TEMPERATURE

Highest 55° at Biarritz and Lisbon, 53° at Perpignan, 50° at Nice, 46° at Scilly, 44° at Holyhead & Jersey, & 42° at Brest.
Lowest 15° at Haparanda, 26° at Bodö, 28° at Wisby, 29° at Parsonstown & Munich, & 30° at Hernosand, Stockholm and Brussels.
Frost occurred last night in many parts of the United Kingdom, at Nairn the sheltered thermometer fell to 25°.

WIND

Variable or light from the W^ward over the northern parts of our Islands.
Light from the NE^ward over the south of England and the greater part of France, but NW^ly at Biarritz and SW^ly at Perpignan.
SE^ly in Scandinavia and Denmark; strong in force in the west of Norway.

WEATHER

Fair over the greater part of western Europe, but dull in France, Germany & the central parts of the United Kingdom.
Foggy over the Netherlands, central Ireland and the inland parts of England; rainy at Lisbon.
A little rain fell yesterday in the west and north of our Islands, and also in the south of France.
Lunar halo was seen at Prawle Point.

SEA

Slight or smooth on all coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any decided change in the weather.

FORECASTS

For the 24 hours ending at NOON on 25TH NOV. 1891.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Variable or W^ly airs; fair generally.
1 SCOTLAND EAST	
2 ENGLAND N.E.	Light variable airs; fair generally, but local fogs.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	E^ly and NE^ly winds, light; fair generally, but local fogs.
6 SCOTLAND WEST	Same as No^s 2. to 4.
7 ENGLAND N.W.	
8 ENGLAND S.W.	NE^ly and N^ly winds, light; fair generally.
9 IRELAND NORTH	Same as No^s 0. and 1.
10 IRELAND SOUTH	
WARNINGS	None Issued.

Note.—The **South Cone**, *point downwards* (▽), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (△), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29.81	44	43	ESE	4	o	3
Sumburgh Head	29.73	43	42	SSE	4	o	4
Stornoway	29.65	41	41	Z	o	o	3
Aberdeen	29.88	40	36	SSW	3	b	3
Shields	29.83	43	41	NW	1	c	3
Ardrossan	29.81	44	43	SE	1	o	1
Malin Head ...	29.77	44	42	S	4	o	2
Mullaghmore ...	29.81	45-	42	S	2	c	2
Belmullet	29.83	42	41	NW	1	o p	*

	BAR.	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.86	44	42	S	1	bc	2
Valencia	29.88	48	46	SSE	2	c m	2
Scilly	29.84+	48	45-	NNE	2	bc	1
Jersey	29.85-	48	43	NE	3	b	3
Dungeness	29.83	42	40	NW	1	c	1
London	29.83-	40	39	NW	1	o g m	*
Yarmouth	29.81	38	38	WSW	1	f	2
Rochefort	29.73	47	43	ENE	4	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over northern Europe, very quiet, but hazy, foggy or gloomy over the major part of the British Islands, France and Germany; dull and rainy over the Spanish Peninsula and showery at some of our northwestern and northeastern stations. Some rain later over Scotland and the north of Ireland and also in the southwest and south of France, but dry, cloudy weather continuing over England, France & Germany.

Temperature risen on the shores of the White Sea, in Norway, and in the northern and western parts of Scotland and Ireland fallen over the continent generally and especially over central and southern Russia. Morning readings still exceeding 60° on the southern side of the Mediterranean and exceeding 50° at most of the stations in southern and southeastern Europe. Below 40° over the greater part of the United Kingdom and central Europe, and as low as (1) 8°F. at Haparanda and Kuopio, 10° at Archangel, 13° at Helsingfors and Kiev, 14° at St Petersburg, 18° at Moscow, 35° at Neufahrwasser and Hermanstadt; (2) 30° at Nairn, 31° at Leith, 34° at Parsonstown and Oxford. Not touching 50° over our Islands later.

Wind extremely variable over France and central Europe, very light and variable from the N^ward over England; E^ly over the Baltic, the eastern shores of the North Sea and the Bay of Biscay, but generally SW^ly on the northwestern coasts of the British Islands, E^ly wind freshening a little over the Bay of Biscay later, but SW^ly wind on our northwestern coasts dying down.

Barometer - Highest 30.2 ins. and more to 30.0 ins. in an anticyclone lying over Sweden, Finland and the eastern parts of the Baltic and exceeding 30.0 ins. in a ridge extending thence over western Russia. Lowest 29.6 ins. and less over the northeast of Russia, and 29.7 ins. and less both off our northwestern coasts and in a shallow depression over the northern half of Spain. Rising later over Scandinavia and Scotland, falling over Spain, as the depression in that region increased somewhat in depth and spread eastwards.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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DAILY WEATHER REPORT.

for Wednesday, 25th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom.: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Wet.	Difference from 8 a.m. yesterday.	Wind. Direc.	Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30·13	28	SW	4	o	30·14	− ·08	25	24	+ 10	N	2	bc	*	28	7	-
	Hernösand ...	30·26	31	S	2	b	30·25	− ·01	26	25	− 4	S	0	bc	*	32	14	-
	Stockholm ...	30·25	32	ESE	2	c	30·23	− ·02	32	28	+ 2	SE	2	o	*	36	27	-
	Wisby	30·17	32	ESE	4	o	30·18	+ ·01	31	30	+ 3	SE	4	o	*	34	27	-
	Bodö	29·92	32	E	8	o	29·95	+ ·01	34	31	+ 8	E	2	b	1	?	23	-
	Christiansund	29·92	38	SE	4	b	29·88	− ·01	39	37	0	ESE	4	c	3	39	37	-
	Skudesnaes ...	29·99	39	SE	8	o	29·91	− ·07	36	34	− 6	ESE	6	o	4	42	34	-
	Christiania Fjord (Færder)	30·12	31	E	4	b	30·04	− ·12	32	31	− 2	NNE	4	m	1	34	30	-
	Skagen (The Scaw)	30·07	33	ESE	1	bc	29·98	− ·14	37	35	+ 3	ESE	2	o	1	37	34	—
	Fanö	30·00	31	ESE	2	o	29·90	− ·15	35	35	+ 3	E	4	o	*	36	31	—
BRITISH ISLANDS.	Sumburgh Head	29·74	37	Z	0	o	29·55	− ·22	42	41	+ 3	SSE	3	r	5	44	36	0·20
	Stornoway ...	29·64	41	SW	6	o	29·31	− ·46	41	41	+ 8	SW	8	o	6	42	30	0·03
	Wick	29·71	36	S	2	o	29·47	− ·32	41	39	+ 7	S	6	ow	4	44	38	—
	Nairn	29·71	28	Z	0	b	29·44	− ·35	40	38	+ 5	SW	3	c	2	42	23	—
	Aberdeen ...	29·78	33	SSW	1	b	29·59	− ·25	41	38	+ 5	SSE	4	cq	4	41	29	—
	Leith	29·81	38	SW	1	f	29·58	− ·28	38	37	+ 1	SSE	2	o	*	39	30	—
	Shields	29·81	39	SSW	1	c	29·66	− ·18	34	32	− 2	SSE	3	m	2	41	31	—
	Spurn Head ...	29·84	37	SSW	2	bc	29·76	− ·12	31	31	− 6	S	2	f	1	38	31	0·01
	York	29·87	34	S	1	f	29·75	− ·15	31	31	− 2	S	1	f	*	40	?29	—
	Loughborough	29·85	36	Z	0	f	29·76	− ·13	32	32	− 1	ESE	2	of	*	39	30	0·01
	Ardrossan ...	29·77	38	ENE	1	r	29·51	− ·35	44	42	+ 8	SSW	5	r	5	44	33	0·23
	Malin Head ...	29·70	37	SSE	3	b	29·51	− ·34	40	38	+ 5	SSW	4	cp	3	41	35	0·01
	Mullaghmore ...	29·71	40	SSW	5	c	29·48	− ·41	39	38	+ 1	SSW	4	c	2	43	36	0·11
	Belmullet ...	29·65	43	SSW	3	o	29·49	− ·39	41	39	+ 5	WSW	2	bc	*	44	35	0·40
	Donaghadee ...	29·81	31	SE	1	b	29·54	− ·34	41	40	+ 7	SE	2	c	0	43	31	0·10
	Liverpool (Bidston)	29·84	37	SE	1	bc	29·70	− ·20	33	32	− 4	SE	3	c	3	42	31	0·02
	Holyhead ...	29·84	41	Z	0	c	29·61	− ·27	43	42	− 1	S	5	rmqg	4	45	38	0·41
	Parsonstown ...	29·80	34	Z	0	bc	29·56	− ·37	35	34	+ 6	Z	0	c	*	43	28	0·10
	Valencia	29·78	46	S	5	bc	29·64	− ·32	43	41	+ 10	W	3	cp	4	48	33	0·44
	Roche's Point ...	29·87	40	NW	1	b	29·61	− ·35	37	37	0	WNW	3	b	3	45	36	0·15
	Pembroke (St. Ann's Hd.)	29·85	43	N	2	c	29·64	− ·28	46	44	+ 7	SSW	4	cp	4	47	38	0·15
	Scilly	29·85	45	NW	3	bc	29·70	− ·21	47	45	+ 1	SSW	5	o	4	48	41	0·05
	Prawle Point ...	29·89	36	NNW	2	b	29·76	− ·14	44	42	+ 10	SSW	3	c	2	47	33	0·01
	Jersey (St. Aubin's)	29·86	42	NNE	2	c	29·83	− ·04	41	38	− 3	SW	3	cm	3	45	36	—
	Hurst Castle ...	29·87	39	NE	2	m	29·80	− ·10	37	37	+ 2	ENE	1	f	1	43	31	?0·09
	Dungeness ...	29·83	42	ENE	3	c	29·81	− ·06	28	27	− 14	N	2	f	1	42	27	—
	London	29·88	37	Z	0	f	29·83	− ·08	31	31	− 7	Z	0	f	*	42	31	—
	Oxford	29·88	37	NW	1	o	29·81	− ·11	32	32	− 3	Z	0	ofg	*	38	31	—
	Cambridge ...	29·88	38	Z	0	o	29·82	− ·10	30	30	− 7	SW	1	f	*	?38	27	—
	Yarmouth ...	29·86	41	ESE	2	c	29·80	− ·11	30	30	− 7	W	1	f	3	42	29	—
GERMANY & HOLLAND.	Cuxhaven ...	29·92	37	E	3	bc	29·91	− ·12	34	33	− 3	SE	4	o	*	38	33	—
	Berlin	30·00	35	S	2	o	29·99	+ ·04	33	32	0	E	4	o	*	36	30	—
	Wiesbaden ...	*	*	*	*	*	29·82	− ·16	36	35	0	Z	0	o	*	37	34	—
	Munich	29·85	33	NE	3	o	29·86	− ·07	33	33	+ 4	SW	1	m	*	34	?29	—
	The Helder ...	29·92	36	E	1	bc	29·86	− ·14	34	33	− 3	E	1	f	1	39	34	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29·84	− ·10	30	30	0	WSW	1	f	*	37	28	—
	Cape Gris Nez	29·82	35	E	3	f	29·78	− ·08	35	35	+ 2	SE	2	m	2	36	30	—
	Paris	29·83	34	N	2	o	29·87	+ ·02	33	32	0	NE	1	o	*	38	33	—
	Brest	?	42	NE	1	b	?	?	45	44	+ 3	NE	1	c	5	57	39	0·12
	Lorient	29·85	45	N	3	b	29·83	+ ·01	38	37	− 3	ESE	1	c	2	46	37	—
	Rochefort ...	29·83	38	NNE	3	o	29·82	+ ·15	35	33	− 3	NE	3	o	2	41	32	—
	Belfort	?	44	W	3	o	?	?	41	39		W	3	o	*	44	31	0·08
	Lyons	29·77	43	N	1	o	29·84	+ ·08	41	41	+ 4	NNE	1	m	*	46	37	—
	Nice	29·84	52	SW	1	o	29·83	+ ·03	53	52	+ 3	NE	2	c	2	54	50	0·83
	Perpignan ...														*			
	Biarritz	29·79	53	NE	2	o	29·80	+ ·10	45	43	− 10	E	1	o	2	55	41	0·16
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	29·66	56	N	5	o	29·67	+ ·02	54	51	− 1	NNW	6	o	3	59	52	0·08

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Wednesday, 25th Nov., 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

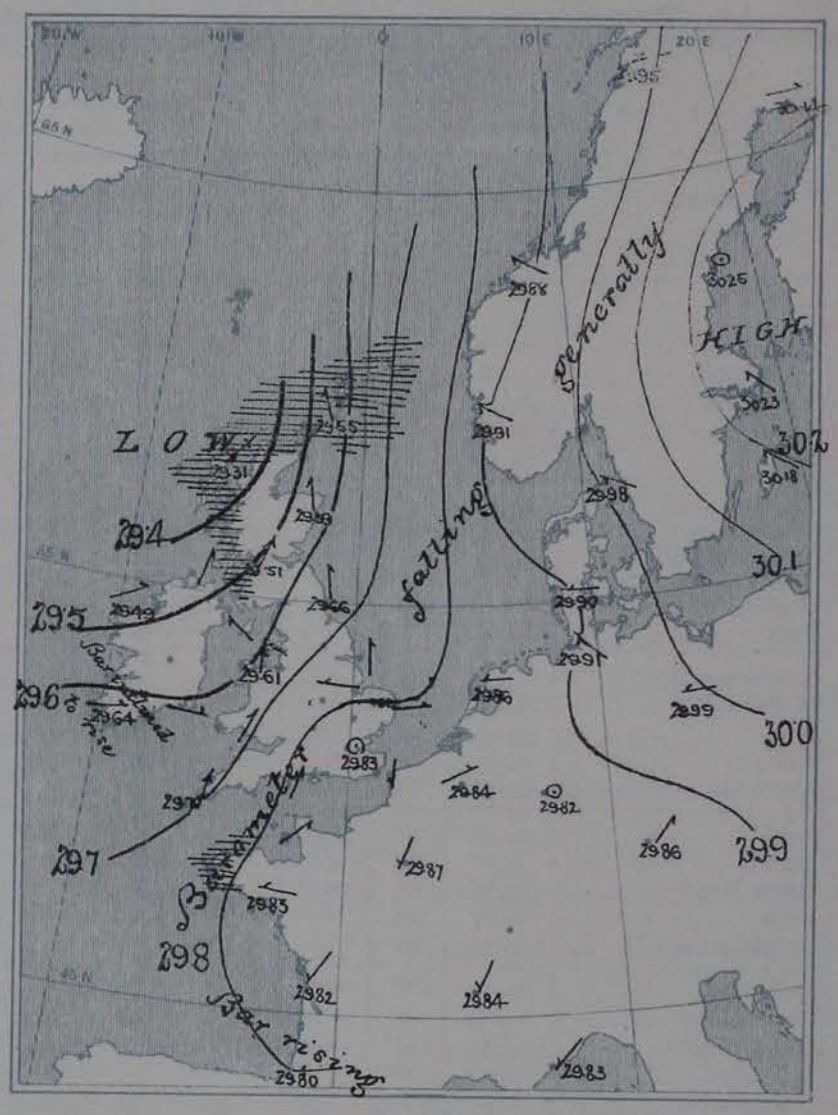
WIND - Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

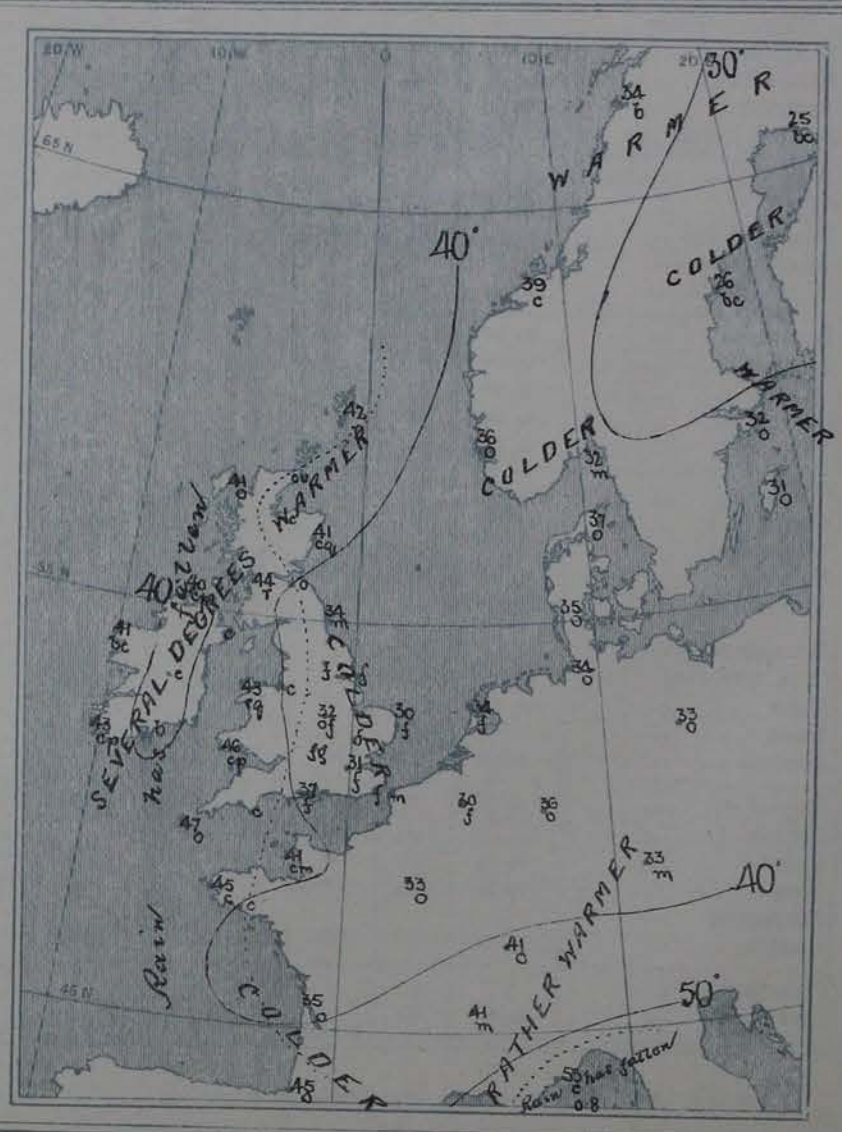
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	4·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	45·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·2 ins. and upwards in Sweden.
Lowest 29·4 ins. and less in a depression lying off the northwest of Scotland.
Gradients moderate in the extreme north of our Islands, but slight elsewhere.
Barometer falling in most parts of western Europe, but inclined to rise again at Valencia Island.

TEMPERATURE

Highest 54° at Lisbon, 53° at Nice, 47° at Scilly, 46° at Pembroke, 45° at Biarritz, & 44° at Ardrossan & Prawle Pt.
Lowest 25° at Haparanda, 26° at Hernösand, 28° at Dungeness, 30° at Cambridge, Yarmouth and Brussels and 31° at Wisby, York, Spurn Head and in London.
Frost occurred last night in many parts of the United Kingdom.

WIND

S.ly over the greater part of our Islands, strong in force on our extreme N.ly coasts, with a gale at Hebrides.
Light from the W.ly in the west and south of Ireland; calm or variable in the southeast of England and also in the Netherlands.
Light or moderate from the SE.ly in Scandinavia and Denmark, light from the NE.ly in France.

WEATHER

Foggy over England and the Netherlands, cloudy in most other parts of western Europe, with rain or passing showers at several of our own western and northern stations.
Fine over the northern parts of Scandinavia.
Since yesterday morning rain has fallen in the west and extreme north of our Islands generally and also in the south of France. A lunar halo was seen last night at Mullaghmore.

SEA

Rather rough off the west and north of Scotland and also at Brest, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which has just passed along our western coasts will probably be followed by other disturbances from the Atlantic, and unsettled weather seems likely to spread gradually eastwards over the Kingdom.

FORECASTS

For the 24 hours ending at NOON on 26TH NOV. 1891.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S.ly and SW.ly winds, strong to moderate; dull, rain at times.
1 SCOTLAND EAST	S.ly winds, freshening; fair to dull & some rain.
2 ENGLAND N.E.	Same as No. 5.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	Light breezes, chiefly S.ly; foggy at first, then fair to cloudy, with some rain.
6 SCOTLAND WEST	S.ly winds, fresh or strong; dull, rain at times.
7 ENGLAND N.W.	S.ly winds, fresh; cloudy, showery.
8 ENGLAND S.W.	
9 IRELAND NORTH	W.ly and SW.ly winds, light, to S.ly strong; fair to dull and rainy.
10 IRELAND SOUTH	
WARNINGS	Orders were issued at 7.10 pm yesterday to hoist the S. Cone in districts 0, 6, 10 and part of 9.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29.99	41	36	SE	8	o	4
Sumburgh Head	29.75	39	38	Z	o	r	3
Stornoway	29.71	42	41	SW	3	c	3
Aberdeen	29.81	38	37	SSW	1	cw	3
Shields	29.87	40	38	SSW	1	m	2
Ardrossan	29.81	41	40	ENE	1	b	1
Malin Head ...	29.76	40	38	SSW	3	b	2
Mullaghmore ...	29.80	43	39	SSW	4	bc	3
Belmullet	29.77	44	40	SSE	3	shp	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.85	42	41	SSE	1	bc	2
Valencia	29.88	45	42	S	2	cw	2
Scilly	29.87	46	44	NNE	1	bc	2
Jersey	29.84	45	41	ENE	3	o	3
Dungeness	29.84	42	41	E	3	c	2
London	29.87	42	41	Z	o	ogf	*
Yarmouth	29.87	42	40	E	3	bc	3
Rochefort	29.75	41	41	NE	5	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fair but dull over northern Europe as a whole, fair also at most of the Norwegian, Irish, British, French and German stations, but very foggy over the eastern and Midland Counties of England, as well as in the Netherlands and south of France. Dull and rainy over Austria, at Lisbon and at one or two of our own western stations. Rain later on our northwestern and western coasts – considerable in some localities, and a rather large quantity in the south of France.

Temperature changing very jiggully. Morning readings still exceeding 60° over the south of Italy and at several Algerian stations, and exceeding 50° over southern Europe generally, much lower elsewhere. Below 40° over the United Kingdom and Germany, below the freezing point over northern Europe and Russia, and as low as (1) 12° F. at Helsingfors, 13° at Kuopio, 15° at Haparanda, 14° at Riga, 18° at Kharkov, (2) 29° at Parsonstown, 33° at York and Loughborough. Not touching 50° in our Islands later, and remaining below 40° over our eastern and northeastern Counties; not touching 60° even in the south of France.

Wind Very light and variable in almost all districts, strong from SE in the west of Norway and fresh from N and NW in the southwest of France and from SE at Toulon and over the Adriatic. Becoming S^ly on our extreme western and northwestern coasts later and increasing to a gale from SE at Skudesnaes.

Barometer. Highest 30.3 ins. and more to 30.1 ins. over Finland, Russia and Sweden and exceeding 30.0 ins. over the Black Sea and Asia Minor. Lowest 29.8 ins. and less over the north of Scotland, the Hebrides and Shetlands, and 29.7 ins. and less in two shallow disturbances – one over the southwest of France and the other over the southwest of the Spanish Peninsula. Falling rather decidedly in Ireland and the west of Scotland later and fall beginning to spread eastwards.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT.

for Thursday, 26th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 8.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30·30	28	L	0	0	30·36	+·22	15	15	−10	ENE	4	0	*	28	?	-
	Hernösand ...	30·21	30	L	0	S	30·18	−·07	32	32	+6	S	8	S	*	?	21	0·35
	Stockholm ...	30·20	32	SW	2	0	30·15	−·08	30	28	−2	SE	2	0	*	36	27	-
	Wisby	30·18	30	SE	4	0	30·09	−·09	30	28	−1	SE	4	0	*	34	27	-
	Bodö	30·00	30	E	4	b	29·94	−·01	35	32	+1	SE	2	c	1	?	28	-
	Christiansund	29·84	37	ESE	4	b	29·79	−·09	37	33	−2	E	4	c	3	39	36	-
	Skudesnaes ...	29·82	41	SE	7	0	29·72	−·19	41	37	+5	SE	8	0	5	41	36	-
	Christiania Fjord (Færder)	29·98	37	ESE	5	0	29·94	−·10	35	33	+3	ESE	5	0	3	37	32	-
	Skagen (The Scaw)	29·93	38	SE	6	0	29·88	−·10	36	35	−1	SSE	5	0	3	39	34	0·16
	Fanö	29·87	39	SSE	3	0	29·80	−·10	34	33	−1	SSE	3	0	*	36	?	-
BRITISH ISLANDS.	Sumburgh Head	29·49	42	SSE	4	r	29·43	−·12	41	41	−1	SE	2	0	5	45	38	0·61
	Stornoway ...	29·38	40	W	6	r	29·40	+·09	33	33	−8	L	0	bc	3	44	31	0·03
	Wick	29·44	38	SW	3	0	29·41	−·06	30	29	−11	NW	2	bc	1	42	28	-
	Nairn	29·44	35	L	0	bc	29·42	−·02	33	32	−7	L	0	b	1	42	27	-
	Aberdeen ...	29·54	40	S	4	ogqp	29·48	−·11	32	31	−9	W	1	bcm	3	42	32	0·05
	Leith	29·52	40	S	2	b	29·50	−·08	37	36	−1	SSW	1	bcm	*	42	34	-
	Shields	29·59	37	S	3	0	29·54	−·12	36	35	+2	WSW	2	cm	2	37	30	0·05
	Spurn Head ...	29·67	38	SSW	4	cm	29·63	−·13	35	34	+4	SSW	4	cm	4	39	30	0·04
	York	29·66	33	S	2	0	29·62	−·13	34	34	+3	SSW	1	0	*	36	30	0·04
	Loughborough	29·65	39	SSE	2	r	29·66	−·10	32	31	0	WNW	1	bm	*	40	30	0·02
	Ardrossan ...	29·51	43	WSW	4	p	29·51	·00	38	37	−6	SW	1	c	1	44	33	0·19
	Malin Head ...	29·49	40	WSW	4	op	29·49	−·02	36	35	−4	SW	4	bcph	3	41	35	0·18
	Mullaghmore ...	29·57	41	WSW	4	oprh	29·57	+·09	38	37	−1	WSW	5	prh	4	43	36	0·19
	Belmullet ...	29·59	41	WNW	3	cp	29·58	+·09	39	36	−2	NW	3	0	*	43	36	0·21
	Donaghadee ...	29·57	37	S	2	bc	29·59	+·05	31	31	−10	SW	3	b	1	42	29	0·01
	Liverpool (Bidston)	29·60	35	SSE	3	b	29·64	−·06	37	35	+4	SW	2	bc	4	39	33	0·11
	Holyhead ...	29·59	41	WNW	2	op	29·64	+·03	40	38	−3	W	3	bc	3	46	40	0·57
	Parsonstown ...	29·62	35	L	0	b	29·67	+·11	34	33	−1	L	0	r	*	43	29	0·05
	Valencia	29·72	42	W	3	bp	29·75	+·11	41	40	−2	W	3	bcp	3	48	40	0·13
	Roche's Point ...	29·67	41	WNW	3	b	29·72	+·11	39	37	+2	W	3	b	3	47	31	-
	Pembroke (St. Ann's Hd.)	29·64	45	WSW	4	bc	29·72	+·08	45	42	−1	WNW	4	bc	4	47	43	0·22
	Scilly	29·69	47	WNW	5	bc	29·80	+·10	47	45	0	W	5	bcp	4	50	44	0·07
	Prawle Point ...	29·72	45	W	4	c	29·79	+·03	39	38	−5	WNW	2	b	1	49	37	0·10
	Jersey (St. Aubin's)	29·78	47	SSW	3	cg	29·83	·00	44	42	+3	W	3	bcm	3	49	40	0·12
	Hurst Castle ...	29·72	47	SW	6	cp	29·75	−·05	37	35	0	WNW	3	b	1	47	35	0·10
	Dungeness ...	29·77	44	SW	4	0	29·73	−·08	41	41	+13	WNW	4	c	3	44	26	0·02
	London	29·73	41	SE	1	om	29·74	−·09	33	32	+2	L	0	b	*	45	31	0·06
	Oxford	29·71	41	S	2	0	29·73	−·08	33	32	+1	S	1	cm	*	42	32	0·02
	Cambridge ...	29·69	35	S	1	bc	29·72	−·10	34	34	+4	SW	1	b	*	40	28	0·04
	Yarmouth ...	29·74	38	SW	1	bf	29·65	−·15	39	38	+9	SW	2	bc	2	39	28	0·02
GERMANY & HOLLAND.	Cuxhaven ...	29·87	37	SSE	1	0	29·85	−·06	37	36	+3	SSE	1	0	*	?	?	-
	Berlin	29·90	35	S	2	0	29·84	−·15	36	35	+3	E	2	0	*	37	33	0·04
	Wiesbaden ...	*	*	*	*	*	29·77	−·05	39	38	+3	NE	1	0	*	39	36	-
	Munich	29·80	33	NNW	1	b	29·73	−·13	32	32	−1	N	1	f	*	46	30	-
	The Helder ...	29·85	35	SSE	1	bc	29·76	−·10	33	32	−1	SSE	1	bc	1	36	32	-
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29·82	−·02	28	28	−2	SSE	1	c	*	33	25	-
	Cape Gris Nez	29·77	36	SSE	3	m	29·72	−·06	38	38	+3	S	4	0	3	38	32	-
	Paris	29·86	31	NW	2	0	29·87	·00	28	28	−5	WSW	2	0	*	?	?	-
	Brest	?	49	W	3	c	?	?	47	43	+2	NW	3	b	2	50	39	0·04
	Lorient	29·80	45	SSE	1	c	29·88	+·05	41	39	+3	L	0	b	2	48	37	0·04
	Rochefort ...	29·82	36	ENE	3	bc	29·88	+·06	34	33	−1	ENE	2	bc	1	45	32	-
	Belfort	?	40	N	3	c	?	?	41	36	0	N	3	f	*	45	37	-
	Lyons	?	41	N	1	m	29·80	−·04	40	40	−1	NNW	2	r	*	42	39	0·32
	Nice	29·73	53	NE	1	0	29·74	−·09	51	50	−2	SW	1	f	3	54	48	0·95
	Perpignan ...	29·66	51	NW	4	0	29·78	+·07	49	45	−3	W	3	0	*	61	47	0·04
	Biarritz	29·76	46	E	3	0	29·88	+·08	44	40	−1	ESE	3	0	2	52	43	0·04
PENINSULA.	Coruna	*	*	*	*	*												
	Lisbon	29·78	53	NNW	4	0	29·84	+·17	50	46	−4	NNW	4	b	5	55	50	-

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Thursday, 26th November, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—

= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

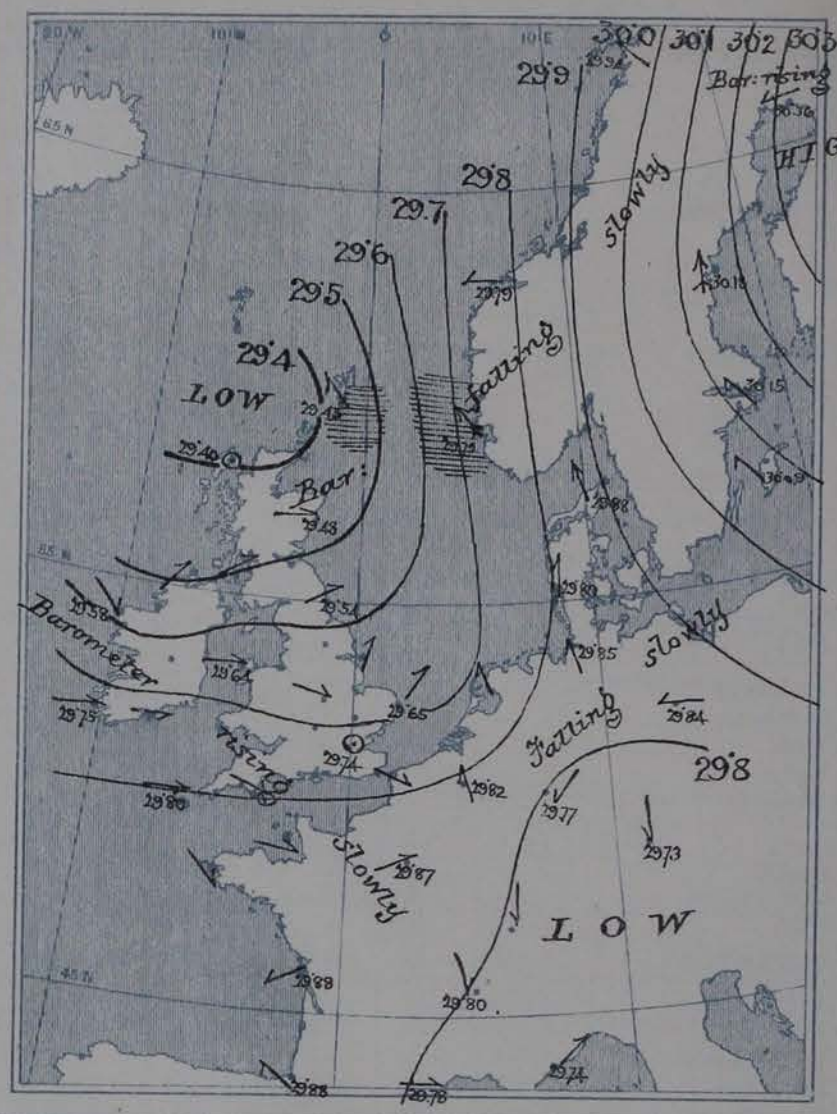
SEA DISTURBANCE—Where considerable, is shewn thus:

= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29 · 683
Stornoway	29 · 699
Wick	29 · 722
Nairn	29 · 738
Aberdeen	29 · 758
Leith	29 · 789
Shields	29 · 813
Spurn Head	29 · 842
York	29 · 846
Loughborough	29 · 877
Ardrossan	29 · 791
Mullaghmore	29 · 780
Donaghadee	29 · 810
Holyhead	29 · 835
Liverpool	29 · 851
Parsonstown	29 · 847
Valencia	29 · 865
Roche's Point	29 · 865
Pembroke	29 · 864
Scilly	29 · 897
Prawle Point	29 · 914
Jersey	29 · 928
Hurst Castle	29 · 902
Dover	29 · 893
LONDON	29 · 898
Oxford	29 · 896
Cambridge	29 · 887
Yarmouth	29 · 865



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL (Inches.)
Sumburgh Head	45 · 6	37 · 8	42 · 0	40 · 3	4 · 16
Stornoway	46 · 2	37 · 0	41 · 7	40 · 7	4 · 70
Wick	45 · 1	36 · 1	41 · 4	39 · 8	2 · 93
Nairn	45 · 3	35 · 7	39 · 8	38 · 2	2 · 29
Aberdeen	46 · 2	36 · 5	40 · 5	38 · 7	3 · 14
Leith	48 · 1	37 · 0	41 · 7	40 · 0	2 · 20
Shields	47 · 3	37 · 9	42 · 1	40 · 5	2 · 61
Spurn Head	46 · 8	40 · 2	43 · 2	41 · 9	2 · 40
York	47 · 5	36 · 4	40 · 6	39 · 3	2 · 19
Loughborough	48 · 0	36 · 6	40 · 5	39 · 3	2 · 24
Ardrossan	47 · 8	39 · 1	43 · 1	41 · 3	3 · 88
Mullaghmore	49 · 6	41 · 2	45 · 1	43 · 1	4 · 48
Donaghadee	48 · 3	39 · 2	43 · 2	42 · 0	3 · 20
Holyhead	49 · 7	42 · 9	45 · 8	44 · 0	3 · 88
Liverpool	47 · 8	39 · 6	42 · 5	40 · 7	2 · 96
Parsonstown	49 · 1	37 · 1	41 · 9	40 · 2	2 · 83
Valencia	52 · 3	43 · 0	47 · 4	45 · 5	5 · 42
Roche's Point	51 · 1	42 · 0	46 · 1	44 · 5	4 · 62
Pembroke	50 · 1	43 · 8	46 · 9	45 · 1	4 · 04
Scilly	52 · 4	46 · 7	50 · 0	48 · 0	3 · 72
Prawle Point	51 · 1	41 · 9	46 · 2	44 · 7	3 · 20
Jersey	51 · 9	44 · 1	47 · 7	45 · 8	4 · 30
Hurst Castle	50 · 5	40 · 6	44 · 9	44 · 0	3 · 05
Dover	49 · 3	40 · 6	44 · 3	42 · 8	3 · 48
LONDON	49 · 3	38 · 0	42 · 2	40 · 8	2 · 23
Oxford	48 · 2	37 · 6	41 · 2	40 · 0	2 · 31
Cambridge	48 · 6	35 · 8	40 · 7	39 · 9	2 · 01
Yarmouth	47 · 5	39 · 0	43 · 1	42 · 0	3 · 06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 ins. and upwards, in the north of Sweden.
Lowest, 29·4 ins. and less, in a depression lying off the north of Scotland; 29·8 ins. and less, in a large area lying over Switzerland and the southern parts of France and Germany.
Gradients slight. Barometer rising a little in France and the southwest of England, but falling elsewhere.

TEMPERATURE

Highest, 51° at Nice, 50° at Hyères, 49° at Perpignan, 47° at Scilly, 45° at Pembroke, and 44° at Jersey and Biarritz.
Lowest, (1) 15° at Haparanda, 30° at Thisby, and 32° at Hernösand and Stockholm; (2) 28° at Brussels and Paris; (3) 30° at Dumbuyg Hd. and 31° at Donaghadee.
Frost occurred last night in most parts of the United Kingdom

WIND

Light or moderate from the W.ward over the greater part of our Islands, but SW.ly or S.ly in the east of England.
Moderate to strong from the SE.ward in Scandinavia and Denmark, with gales at Hernösand and Skudesnaes, light from the same quarter in the Netherlands.
Light from the NE.ward in Germany and from the E.ward in the southwest of France; variable over the central and southern parts of France.

WEATHER

Fine in most parts of the United Kingdom and also in the west and north of France, but showery in Ireland.
Cloudy or overcast at most of the Continental stations, with fog in the southern parts of France and Germany, rain at Hyères and snow at Hernösand.
Since yesterday morning rain has fallen over our Islands and a considerable part of France; the largest amounts being 1·0 in. at Nice and 0·6 in. at Dumbuyg Hd. and Holyhead.

SEA

Moderate to smooth generally, but rather rough at Skudesnaes and Dumbuyg Hd.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is now inclined to fall again in the south of Ireland and it is probable that further depressions are approaching our Islands from the Atlantic so that unsettled weather is likely to continue.

FORECASTS

For the 24 hours ending at NOON on 27th November 1891.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	W.ly and SW.ly winds, light; fine to showery.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	SW.ly and S.ly winds, light; fair to showery.
5 ENGLAND SOUTH	W.ly to SW.ly winds, light or moderate; fine to showery.
6 SCOTLAND WEST 7 ENGLAND N.W.	Same as No. 0 and 1.
8 ENGLAND S.W.	W.ly to SW.ly or S.ly winds, moderate or fresh; fine to unsettled and some rain.
9 IRELAND NORTH	SW.ly to S.ly winds, moderate; changeable, some showers.
10 IRELAND SOUTH	Same as No. 8.
WARNINGS	Orders were issued at 7.10 pm yesterday to lower the signals in districts 0, 6, 10, and part of 9.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F	WEA.	SEA
Skudesnaes ...	29.87	40	35	SE	6	o	4
Sumburgh Head	29.47	44	43	SSE	5	c	6
Stornoway	29.34	44	43	W	4	c	5
Aberdeen	29.54	42	39	SSE	4	cqpk	4
Shields	29.60	36	35	S	3	cm	2
Ardrossan	29.40	44	43	SSW	4	c	3
Malin Head ...	29.46	40	39	SW	4	o	2
Mullaghmore ...	29.52	42	40	W	4	cp	3
Belmullet	29.54	43	40	WNW	2	bpk	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.56	45	44	SSW	2	c	3
Valencia	29.66	46	43	W	4	bcp	4
Scilly	29.67	50	47	W	4	bc	4
Jersey	29.77	49	45	SSW	3	b	3
Dungeness	29.76	44	43	SW	3	c	2
London	29.74	45	42	SE	2	b	*
Yarmouth	29.75	38	37	Z	0	bf	2
Rochefort	?	42	40	E	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather foggy over England and the Netherlands, as well as at some of the Austrian stations. Cloudy or overcast in most other parts of Europe, with rain or passing showers at several of our western and northern stations, but fine in the north of Scandinavia and also in Algeria. Fog clearing over England later, but showery weather spreading over the whole of our Islands and a considerable portion of France.

Temperature highest 72° at La Calle, 70° at Algiers, 69° at Palermo, and 67° at Malta, above 60° over the central and southern parts of the Mediterranean generally and above 50° on its northern shores. Lowest 12° at Riga, 14° at Moscow, 16° at St Petersburg, 19° at Archangel, and 20° at Kuopio, Kiev, and Kharkov, below the freezing point over Sweden and Russia generally and also over a considerable part of England. Rapid rise taking place later over the south and southeast of England, but thermometer remaining below 40° in the northern and eastern counties. Exceeding 50° in the south of France, and reaching 61° at Perpignan.

Wind S over the greater part of our Islands, and strong in force on our extreme northern coasts, with a gale in the Hebrides; light from the W. in the west and south of Ireland, calm or variable in the southeast of England. SE over the greater part of Scandinavia, Denmark, Germany and Russia, but SW in the extreme north of Russia. Light and variable in Austria; chiefly SE in Italy and S in Algeria, but E in the west and south of France and N or NE in Spain. Subsequently veering to the W. in all the more western parts of our Islands.

Barometer highest 30.4 ins. to 30.6 ins. and upwards, in a large anticyclone lying over Russia. Lowest 29.4 ins. and less, in a depression lying off the northwest of Scotland; 29.7 ins. and less, in a large shallow area lying over the southern parts of Spain and the adjacent parts of the Mediterranean. Depression off northwest of Scotland subsequently travelling away to the northward but secondary disturbances advancing over our Islands from the westward.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS:—*For* Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Friday, 27th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Wet.	Difference from 8 a.m. yesterday.	Wind. Direc.	Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30·31	16	SE	4	0	30·25	-·11	5	4	-10	SE	4	c	*	30	?	-
	Hernösand ...	30·11	30	SE	4	S	30·00	-·18	29	29	-3	SSE	4	S	*	34	25	0·16
	Stockholm ...	30·01	30	SE	2	S	29·78	-·37	32	31	+2	ENE	4	S	*	34	28	0·12
	Wisby	29·93	31	?	4	0	29·67	-·42	33	32	+3	E	4	S	*	?	27	0·12
	Bodö	29·93	32	SE	2	bc	29·87	-·07	29	26	-6	SE	2	b	1	35	27	-
	Christiansund	29·76	38	SE	3	b	29·73	-·06	35	31	-2	ESE	2	b	2	39	34	-
	Skudesnaes ...	29·68	41	SE	6	0	29·68	-·04	40	35	-1	E	4	0	3	41	39	-
	Christiania Fjord (Færder)	29·84	35	NNE	5	0	29·71	-·23	33	32	-2	N	4	S	1	36	?	-
	Skagen (The Scaw)	29·72	39	ESE	4	S	29·61	-·27	39	37	+3	SE	1	0	1	39	34	-
	Fanö	29·66	35	SSE	4	r	29·62	-·18	34	34	0	SSE	3	c	*	37	32	0·04
GERMANY & HOLLAND.	Sumburgh Head	29·48	40	Z	0	0	29·60	+·17	36	36	-5	Z	0	bc	4	42	35	0·03
	Stornoway ...	29·52	33	N	2	b	29·68	+·28	34	34	+1	NW	2	b	2	37	28	-
	Wick	29·50	32	NW	2	c	29·65	+·24	32	31	+2	NW	2	bc	1	39	28	0·02
	Nairn	29·50	34	Z	0	b	29·69	+·27	31	30	-2	W	2	b	1	40	28	-
	Aberdeen ...	29·52	31	W	2	b	29·72	+·24	32	31	0	WNW	3	b	2	35	31	-
	Leith	29·53	40	Z	0	bc	29·76	+·26	31	30	-6	WSW	1	bm	*	41	26	-
	Shields	29·53	36	Z	0	bm	29·71	+·17	31	30	-5	W	3	bc	2	42	28	-
	Spurn Head ...	29·58	38	SW	3	cm	29·73	+·10	36	35	+1	WNW	3	bcm	3	41	30	-
	York	29·57	38	SSW	1	0	29·79	+·17	30	30	-4	NW	1	b	*	39	27	0·05
	Loughborough	29·59	35	SSW	1	c	29·78	+·12	29	29	-3	WNW	2	bm	*	43	29	0·03
BRITISH ISLANDS.	Ardrossan ...	29·55	37	Z	0	bc	29·78	+·27	29	29	-9	ENE	1	bm	1	44	26	0·06
	Malin Head ...	29·57	41	NNW	4	bprsh	29·79	+·30	38	37	+2	S	1	b	3	41	35	0·14
	Mullaghmore ...	29·64	42	NW	5	b	29·78	+·21	45	42	+7	WNW	2	c	3	45	37	0·09
	Belmullet ...	29·69	39	NW	1	b	29·80	+·22	42	40	+3	SW	1	0	*	44	38	0·11
	Donaghadee ...	29·58	37	NW	3	bc	29·80	+·21	34	33	+3	W	2	b	0	37	31	0·01
	Liverpool (Bidston)	29·57	38	N	1	0	29·82	+·18	36	35	-1	S	1	c	2	43	31	0·44
	Holyhead ...	29·58	43	WNW	5	cqp	29·81	+·17	43	42	+3	WNW	3	c	3	44	40	0·01
	Parsonstown ...	29·68	37	Z	0	b	29·86	+·19	32	31	-2	Z	0	bc	*	43	30	0·08
	Valencia	29·78	46	NW	3	bcp	29·88	+·13	43	41	+2	E	1	0	2	50	39	0·04
	Roche's Point ...	29·73	43	NW	3	bcp	29·88	+·16	37	35	-2	N	1	b	3	48	35	0·06
	Pembroke (St. Ann's Hd.)	29·66	46	W	5	bc	29·87	+·15	42	40	-3	NNW	2	b	2	48	41	0·05
	Scilly	29·76	48	WNW	5	op	29·91	+·11	47	44	0	NNW	1	bc	4	50	44	0·08
	Prawle Point ...	29·72	46	W	4	0	29·91	+·12	39	39	0	NW	2	b	1	48	35	0·09
	Jersey (St. Aubin's)	29·82	46	W	4	bc	29·90	+·07	44	39	0	NW	3	bcm	3	51	40	0·41
	Hurst Castle ...	29·70	46	W	5	r	29·86	+·11	37	36	0	NNW	4	b	2	47	34	0·14
	Dungeness ...	29·70	42	WNW	3	b	29·79	+·06	35	34	-6	WNW	3	bc	2	49	34	0·10
	London	29·69	40	SW	2	omr	29·83	+·09	35	33	+2	W	2	bm	*	46	32	0·06
	Oxford	29·66	38	SW	2	r	29·85	+·12	34	33	+1	NW	1	bm	*	43	32	0·10
	Cambridge ...	29·65	37	S	1	0	?29·83	+·11	32	31	-2	NW	1	b	*	44	30	0·18
	Yarmouth ...	29·64	39	WSW	2	bcm	29·69	+·04	37	36	-2	NW	3	cf	2	40	34	0·11
	Cuxhaven ...	29·77	36	Z	0	m	29·72	-·13	36	35	-1	SW	1	f	*	37	34	-
	Berlin	29·73	39	SSE	1	r	29·80	-·04	34	33	-2	W	3	bc	*	39	34	0·04
	Wiesbaden ...	*	*	*	*		29·81	+·04	37	34	-2	N	1	0	*	39	36	0·16
	Munich	29·84	37	NW	3	0	29·89	+·16	35	35	+3	NW	2	r	*	37	32	0·16
	The Helder ...	29·67	37	S	1	f	29·63	-·13	35	35	+2	ENE	1	s	1	37	32	0·35
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29·69	-·13	35	35	+7	WSW	1	c	*	39	28	0·28
	Cape Gris Nez	29·70	45	WSW	5	bc	29·71	-·01	40	39	+2	NNW	5	bc	5	46	36	0·28
	Paris	29·89	36	SW	2	b	29·81	-·06	39	38	+11	SW	2	r	*	40	28	0·12
	Brest	?	49	WNW	4	r	?	?	49	46	+2	NNW	3	0	4	52	41	0·04
	Lorient	29·88	50	W	4	b	29·93	+·05	49	46	+8	NW	3	0	3	54	41	0·16
	Rochefort ...	29·97	44	S	3	bc	29·97	+·09	49	46	+15	W	4	0	2	?	?34	-
	Belfort	?	37	W	3	c	?	?	36	32	-5	W	4	c	*	41	33	0·16
	Lyons	29·97	38	N	2	0	30·08	+·28	31	29	-9	S	1	b	*	41	30	0·32
	Nice																	
	Perpignan ...	29·90	48	W	2	r	30·02	+·24	45	38	-4	W	2	b	*	54	41	0·04
	Biarritz	29·97	47	E	1	0	30·05	+·17	48	43	+4	S	1	c	3	48	41	-
PENINSULA.	Coruña	*	*	*	*	*												
	Lisbon	29·96	51	N	4	b	30·04	+·20	48	42	-2	N	4	b	5	57	45	-

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

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for 8 a.m. on Friday, 27th November, 1891.

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BAROMETER—Isobars are drawn for each tenth of an inch.
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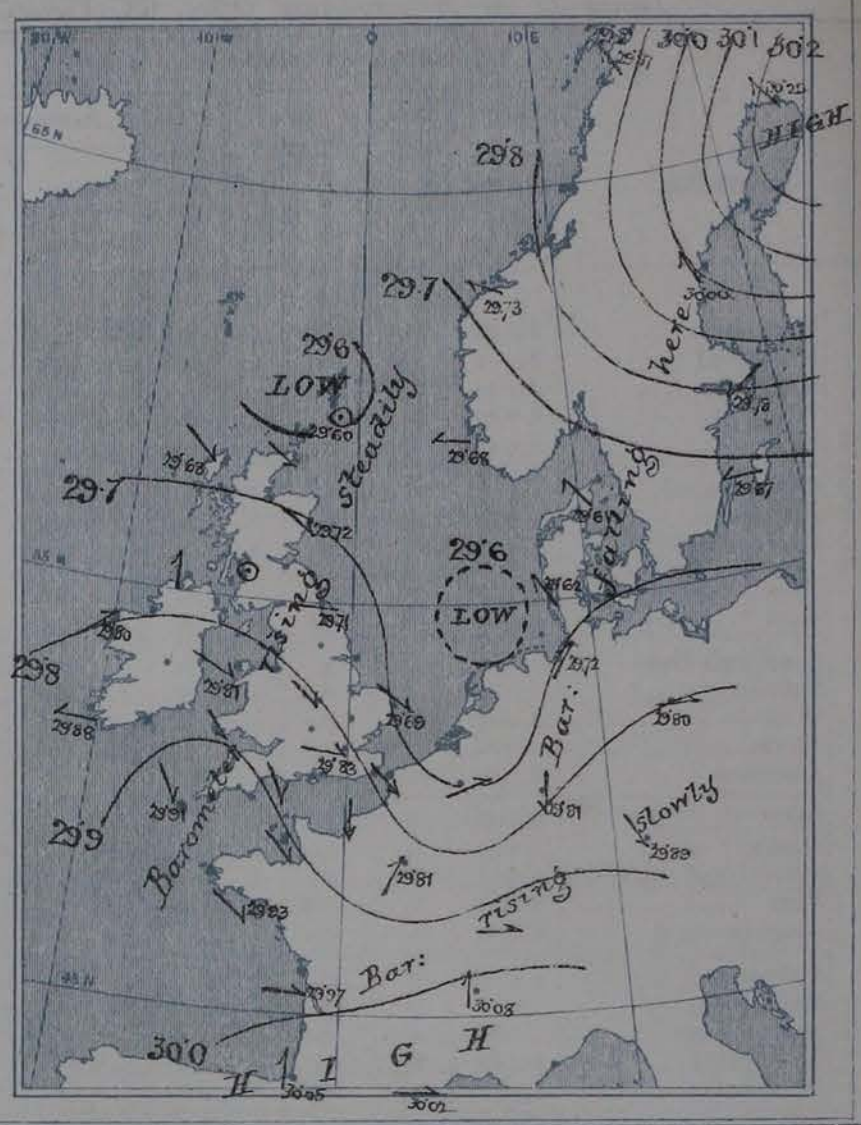
WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29 · 683
Stornoway	29 · 699
Wick	29 · 722
Nairn	29 · 738
Aberdeen	29 · 758
Leith	29 · 789
Shields	29 · 813
Spurn Head	29 · 842
York	29 · 846
Loughborough	29 · 877
Ardrossan	29 · 791
Mullaghmore	29 · 780
Donaghadee	29 · 810
Holyhead	29 · 835
Liverpool	29 · 851
Parsonstown	29 · 847
Valencia	29 · 865
Roche's Point	29 · 865
Pembroke	29 · 864
Scilly	29 · 897
Prawle Point	29 · 914
Jersey	29 · 928
Hurst Castle	29 · 902
Dover	29 · 893
LONDON	29 · 898
Oxford	29 · 896
Cambridge	29 · 887
Yarmouth	29 · 865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	45 · 6	37 · 8	42 · 0	40 · 3	4 · 16
Stornoway	46 · 2	37 · 0	41 · 7	40 · 7	4 · 70
Wick	45 · 1	36 · 1	41 · 4	39 · 8	2 · 93
Nairn	45 · 3	35 · 7	39 · 8	38 · 2	2 · 29
Aberdeen	46 · 2	36 · 5	40 · 5	38 · 7	3 · 14
Leith	48 · 1	37 · 0	41 · 7	40 · 0	2 · 20
Shields	47 · 3	37 · 9	42 · 1	40 · 5	2 · 61
Spurn Head	46 · 8	40 · 2	43 · 2	41 · 9	2 · 40
York	47 · 5	36 · 4	40 · 6	39 · 3	2 · 19
Loughborough	48 · 0	36 · 6	40 · 5	39 · 3	2 · 24
Ardrossan	47 · 8	39 · 1	43 · 1	41 · 3	3 · 88
Mullaghmore	49 · 6	41 · 2	45 · 1	43 · 1	4 · 48
Donaghadee	48 · 3	39 · 2	43 · 2	42 · 0	3 · 20
Holyhead	49 · 7	42 · 9	45 · 8	44 · 0	3 · 88
Liverpool	47 · 8	39 · 6	42 · 5	40 · 7	2 · 96
Parsonstown	49 · 1	37 · 1	41 · 9	40 · 2	2 · 83
Valencia	52 · 3	43 · 0	47 · 4	45 · 5	5 · 42
Roche's Point	51 · 1	42 · 0	46 · 1	44 · 5	4 · 62
Pembroke	50 · 1	43 · 8	46 · 9	45 · 1	4 · 04
Scilly	52 · 4	46 · 7	50 · 0	48 · 0	3 · 72
Prawle Point	51 · 1	41 · 9	46 · 2	44 · 7	3 · 20
Jersey	51 · 9	44 · 1	47 · 7	45 · 8	4 · 30
Hurst Castle	50 · 5	40 · 6	44 · 9	44 · 0	3 · 05
Dover	49 · 3	40 · 6	44 · 3	42 · 8	3 · 48
LONDON	49 · 3	38 · 0	42 · 2	40 · 8	2 · 23
Oxford	48 · 2	37 · 6	41 · 2	40 · 0	2 · 31
Cambridge	48 · 6	35 · 8	40 · 7	39 · 9	2 · 01
Yarmouth	47 · 5	39 · 0	43 · 1	42 · 0	3 · 06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 in: and upwards in the north of Sweden.

Lowest, 29·6 in: and less, in a depression lying to the northward of Scotland and also (apparently) in another shallow disturbance lying over the southern part of the North Sea.

Gradients slight. Barometer rising over our Islands, Germany, and the west and south of France, but falling elsewhere.

TEMPERATURE

Highest, 49° at Brest, Lorient, and Rochefort, 48° at Biarritz and Lisbon, 47° at Scilly, and 45° at Mullaghmore and Perpignan.

Lowest, 5° at Haparanda, 29° at Bodö, Hernösand, Aidrossan, and Loughborough, 30° at York, and 31° at Nairn, Leith, and Shields.

Frost occurred last night in most parts of the Kingdom; in London the thermometer on the grass fell to 23°.

WIND

Light from the W^ly or NW^ly over Great Britain, but SW^ly in the north of Ireland and E^ly at Valencia Island.

Moderate from the SE^ly or E^ly over Scandinavia and Denmark; W^ly in Germany.

Variable or light from the S^ly in the south of France.

WEATHER

Fine over the greater part of our Islands and the west of Norway, but dull in the west of Ireland.

Dull at many of the Continental stations with snow in Sweden and the south of Norway, as well as at the Helder, and rain at Paris and Munich.

Hail or sleet fell yesterday over the northern parts of Ireland and England, and rain at our southern and most of the French stations.

SEA

Slight or smooth generally, but rather rough at Cape Gris Nez.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is at present rising in the extreme west, but the changes in the direction of the wind seem to point to the advance of a depression towards our southwest coasts. The size and depth of the system are at present uncertain.

FORECASTS

For the 24 hours ending at NOON on 28th Novr 1891.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W^ly to SW^ly or S^ly winds, light; fine generally.
1 SCOTLAND EAST	
2 ENGLAND N.E.	
3 ENGLAND EAST	NW^ly to SW^ly winds, light; fine to cloudy and unsettled, possibly some rain or sleet.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	SE^ly winds, light; fair to cloudy and unsettled.
7 ENGLAND N.W.	
8 ENGLAND S.W.	Wind shifting to the S^rd or SE^rd; fine to dull and rainy.
9 IRELAND NORTH	Same as No^s 6 and 7.
10 IRELAND SOUTH	E^ly and NE^ly winds, light or moderate; cloudy, some rain.
WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29·69	41	37	SE	7	o	5
Sumburgh Head	29·44	39	39	z	0	c	4
Stornoway	29·45	37	36	w	2	b	2
Aberdeen	29·47	35	33	w	2	b	3
Shields	29·51	41	38	w	2	c	2
Ardrossan	29·49	44	43	nw	1	c	1
Malin Head ...	29·48	40	37	nw	4	bc	3
Mullaghmore ...	29·56	42	39	nw	5	cp	4
Belmullet	29·63	43	40	nw	3	o p	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA	SEA
Holyhead	29·57	44	41	w	4	cq	4
Valencia	29·73	47	45	wnw	4	cp	4
Scilly	29·76	50	48	wsw	5	cp	4
Jersey	29·82	51	44	wnw	3	bcqp	3
Dungeness	29·70	48	45	w	4	bc	3
London	29·70	46	43	wsw	2	bc	*
Yarmouth	29·64	40	38	sw	2	bc	2
Rochefort	29·90	43	40	se	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright (temporarily) over Great Britain, the Channel, and west of France, very foggy over the greater part of Central Europe and at Constantinople; cloudy or overcast elsewhere, with snow at St Petersburg, rain in the south of France and showers of rain and hail over Ireland and the Scilly Islands. Rain later all over Ireland and England, snow and hail at Birkenhead, hail at Prawle Point, thunder at the Helder. Considerable rain over France, snow in Sweden.

Temperature remaining low over the British Islands and inclined to rise over Austria, Poland, western and southern Russia and over the Mediterranean. Morning readings exceeding 60° over Algeria and Italy; below 40° over the British Isles and Germany and lowest (1) 8° F. at Moscow, 11° at St Petersburg, 14° at Kherfis and Archangel, 15° at Haparanda, 16° at Riga, 28° at Warsaw and Kiev; (2) 28° at Paris and Brussels, 32° at Loughborough, 33° in London and at Paris, and 34° at Varsonstown. Rising to 50° or a little more at Valencia, Scilly and Jersey during the day as well as in some parts of France.

Wind very light and variable over Spain, France, and western Germany, SE, moderate, over eastern Germany, the Baltic, and Scandinavia (a gale at Skudesnaes and Tornösand); moderate W to S over the British Islands and English Channel. Veering to NW. in Ireland later, while the SE gale subsided at Skudesnaes.

Barometer highest 30·6 ins: and more to 30·0 ins: in a large anticyclone covering Finland, Russia, the Black Sea and Asia Minor, 30·0 ins: and more to 29·9 ins: in a smaller system spreading over the northwest of Spain and the Bay of Biscay from the Atlantic. Lowest 29·4 ins: and less, in a depression lying off the north of Scotland, and 29·8 ins: and less in a large shallow system of irregular form covering the western and northern shores of the Mediterranean, northern Italy, and southern and western Germany. Shallow secondary systems advancing eastwards across our Islands later.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Saturday, 28th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom.: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30·04	11	NNE	4	0	29·84	-·41	0	-1	-5	SE	2	0	*	19	?	0·20
	Hernösand ...	29·79	23	NE	6	S	29·80	-·20	22	21	-7	Z	0	0	*	30	19	0·35
	Stockholm ...	29·64	30	NNW	2	0	29·75	-·03	28	27	-4	N	2	0	*	32	28	0·12
	Wisby	29·66	37	NNW	2	0	29·76	+·09	36	34	+3	NNW	4	0	*	37	28	0·16
	Bodö	29·83	27	E	2	b	29·76	-·11	25	22	-4	E	2	b	1	29	23	-
	Christiansund	29·73	33	ESE	2	b	29·74	+·01	33	31	-2	ESE	4	b	2	36	32	-
	Skudesnaes ...	29·77	33	Z	0	0	29·83	+·15	40	38	0	SE	4	0	3	40	32	-
	Christiania Fjord (Færder)	29·73	32	NNE	4	c	29·84	+·13	28	27	-5	N	2	b	0	34	27	-
	Skagen (The Scaw)	29·72	37	NE	1	0	29·79	+·18	37	34	-2	NNW	1	0	0	39	34	0·12
	Fanö	29·73	35	NSW	2	c	29·87	+·25	31	31	-3	Z	0	m	*	41	30	0·04
BRITISH ISLANDS.	Sumburgh Head	29·64	41	NSW	1	bc	29·60	·00	41	40	+5	SSE	1	b	4	46	35	0·04
	Stornoway ...	29·64	42	N	3	c	29·39	-·29	44	43	+10	SE	6	c	6	44	32	-
	Wick	29·67	37	N	1	b	29·51	-·14	41	39	+9	S	6	bcu	3	41	30	0·03
	Nairn	29·72	32	Z	0	b	29·51	-·18	35	34	+4	SSE	1	bc	1	40	26	-
	Aberdeen ...	29·78	31	NSW	1	bm	29·63	-·09	42	38	+10	SSE	5	cqu	4	42	27	-
	Leith	29·81	34	SW	1	bc	29·61	-·15	36	35	+5	ESE	1	0	*	39	27	-
	Shields	29·82	34	W	2	b	29·68	-·03	35	34	+4	S	3	m	2	38	28	-
	Spurn Head ...	29·86	37	NNW	4	bm	29·78	+·05	39	37	+3	SSE	5	cm	4	40	34	-
	York	29·87	32	SSW	1	b	29·73	-·06	33	32	+3	ESE	1	0	*	38	27	-
	Loughborough	29·88	30	NNW	1	b	29·72	-·06	35	32	+6	SE	2	omqp	*	40	28	0·01
	Ardrossan ...	29·80	39	ENE	1	om	29·46	-·32	40	38	+11	E	3	rm	2	43	28	-
	Malin Head ...	29·72	40	S	3	c	29·14	-·65	44	43	+6	SSE	7	r	4	44	37	0·02
	Mullaghmore ...	29·74	43	SSW	4	bcm	29·06	-·72	49	47	+4	SE	8	ogr	6	49	41	0·12
	Belmullet ...	29·71	43	S	3	0	28·97	-·83	47	47	+5	S	2	0	*	47	41	0·17
	Donaghadee ...	29·83	36	W	1	f	29·39	-·41	47	46	+13	S	7	r	4	47	32	0·03
	Liverpool (Bidston)	29·88	35	S	1	b	29·57	-·25	39	38	+3	ESE	5	0	4	40	32	0·02
	Holyhead ...	29·75	43	Z	0	b	29·45	-·36	47	45	+4	SSE	6	gmqr	5	48	41	0·01
	Parsonstown ...	29·79	36	Z	0	b	29·12	-·74	49	48	+17	SW	2	r	*	50	30	0·15
	Valencia	29·71	47	ESE	4	om	29·19	-·69	49	48	+6	SW	5	om	5	53	42	0·96
	Roche's Point ...	29·81	48	SSE	3	c	29·24	-·64	50	49	+13	W	4	c	5	50	37	0·85
	Pembroke (St. Ann's Hd.)	29·86	46	S	3	bc	29·41	-·46	48	48	+6	SSE	7	qmr	7	50	39	0·16
	Scilly	29·85	49	SSE	2	cp	29·38	-·53	51	51	+4	S	8	m	7	51	43	0·42
	Prawle Point ...	29·94	46	SSW	1	b	29·61	-·30	48	47	+9	SSE	7	ru	6	51	38	0·01
	Jersey (St. Aubin's)	29·99	41	NNW	3	bm	29·77	-·13	47	44	+3	SE	5	cm	4	51	36	-
	Hurst Castle ...	29·96	40	NW	1	b	29·76	-·10	47	45	+10	SSW	6	c	2	47	36	-
	Dungeness ...	29·95	36	NNW	2	c	29·86	+·07	44	42	+9	S	5	bcu	4	45	32	-
	London	29·95	35	SW	1	bm	29·82	-·01	39	38	+4	SSE	1	0	*	43	30	-
	Oxford	29·94	37	W	1	b	29·76	-·09	38	37	+4	SE	2	c	*	44	34	-
	Cambridge ...	29·91	34	Z	0	b	29·82	-·01	36	33	+4	SE	1	0	*	43	28	-
	Yarmouth ...	29·87	36	NW	2	c	29·87	+·18	40	39	+3	SW	3	c	3	40	30	0·01
GERMANY & HOLLAND.	Cuxhaven ...	29·74	37	E	1	c	29·89	+·17	35	34	-1	SW	2	c	*	39	33	0·08
	Berlin	29·77	37	SSE	1	r	29·95	+·15	36	35	+2	W	2	0	*	39	34	0·04
	Wiesbaden ...	*	*	*	*	*	30·06	+·25	35	34	-2	SW	2	0	*	39	32	0·20
	Munich	29·98	35	SW	5	s	30·07	+·18	28	27	-7	SW	3	b	*	39	27	0·12
	The Helder ...	29·87	41	NW	1	b	29·95	+·32	37	36	+2	S	1	b	1	45	34	0·12
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30·00	+·31	30	30	-5	SSE	3	f	*	39	29	0·04
	Cape Gris Nez	29·94	42	NNW	3	m	29·86	+·15	35	34	-5	S	4	bc	4	43	34	-
	Paris	30·02	36	W	1	bc	29·99	+·18	29	29	-10	SE	2	b	*	46	26	-
	Brest	?	44	S	3	0	?	?	51	50	+2	S	5	r	6	54	48	0·08
	Lorient	29·97	47	SSW	1	c	29·91	-·22	51	46	+2	S	5	0	4	55	45	-
	Rochefort ...	30·04	48	NNW	1	c	29·80	-·17	40	40	-9	SSE	2	bc	1	55	39	-
	Belfort														*			
	Lyons	30·05	42	NNW	1	0	30·01	-·07	34	34	+3	N	1	0	*	46	?	-
	Nice	29·78	52	Z	0	b	29·84	-·03	46	41	-2	E	1	b	1	57	43	-
	Perpignan ...	30·05	46	NW	3	b	29·93	-·09	38	36	-7	SW	1	b	*	55	36	-
	Biarritz	30·04	52	W	2	0	29·84	-·21	42	39	-6	SSE	3	bc	2	54	37	-
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	30·08	51	NW	3	b	30·00	-·04	50	48	+2	SSW	1	m	2	57	46	-

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Saturday, 28th Nov.r, 1891.

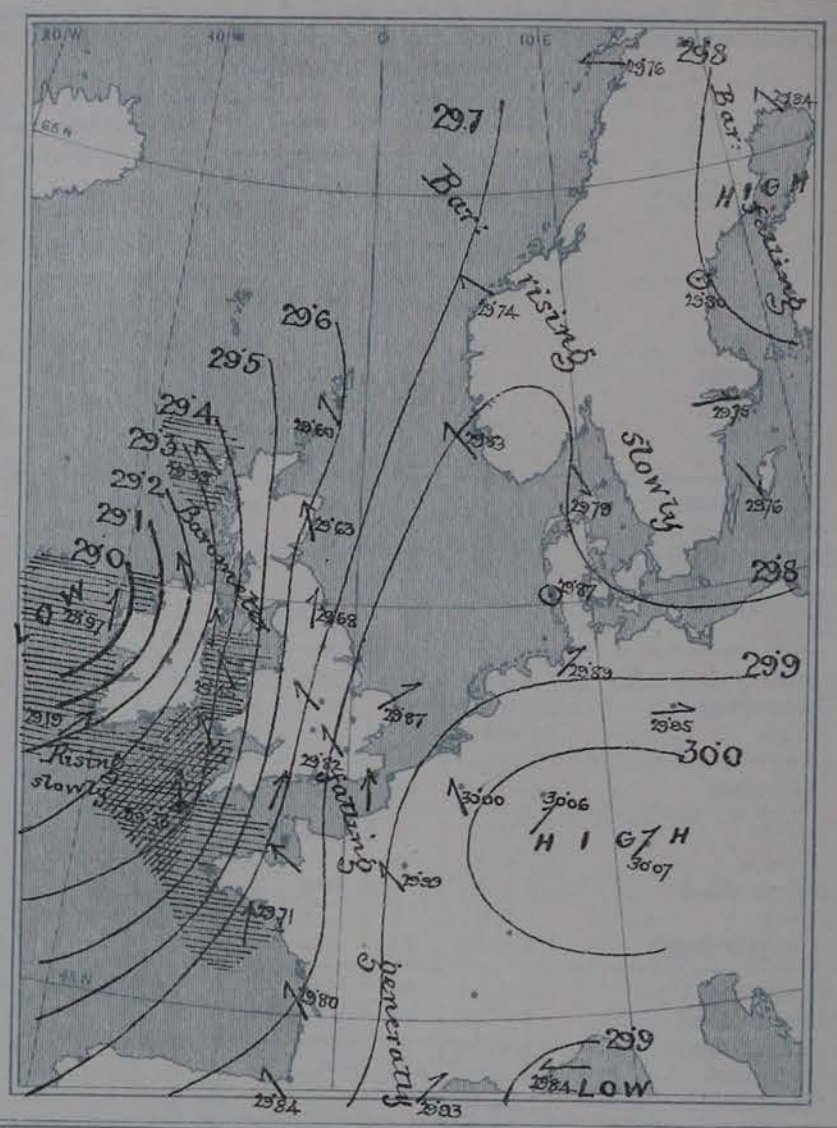
BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch.
Changes since previous morning are stated in words.

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
= dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8·0 a.m. for the month of November During the 20 Years: 1871—1890.

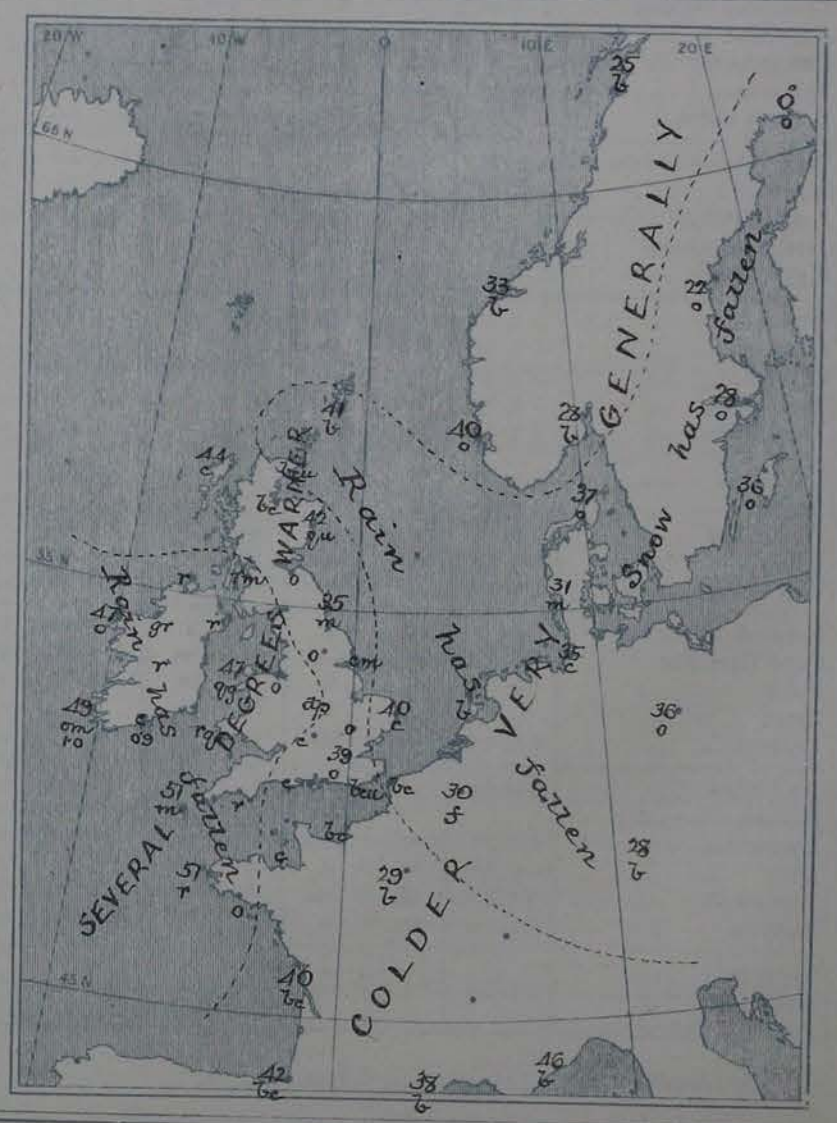
STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	4·16
Stornoway	46·2	37·0	41·7	40·7	4·70
Wick	48·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·6	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·0 ins. and upwards, in Germany and also over the southern parts of the Spanish Peninsula.
Lowest, 29·0 ins. and less, in a depression the centre of which lay off the west of Ireland.
Gradients steep over our western coasts and moderate over the eastern parts of the Kingdom, but slight elsewhere.
Barometer falling over our Islands and France generally – quickly in the northwest, but rising again at Valencia Island.

TEMPERATURE

Highest, 51° at Scilly, Brest, and Lorient, 50° at Rochefort and Lisbon, and 49° at Mullaghmore and Valencia Island.
Lowest, 0 zero at Haparanda, 22° at Hernösand, 25° at Boö, 28° at Stockholm, Jander, and Munich, and 29° at Paris.
Frost again occurred last night in many parts of Great Britain; in London the thermometer on the grass fell to 19°.

WIND

SE^{ly} or S^{ly} over the greater part of our Islands and France; but SW^{ly} or W^{ly} in the south of Ireland; strong to a gale in force on many parts of our western coasts.
Moderate from the SE^{ly} in the west of Norway; light from NW. in the south of Scandinavia, and from SW. in Germany.

WEATHER

Dull and rainy at most of our western stations, but fair in the eastern parts of Great Britain.
Fine at many of the Continental stations, but foggy at Brussels.
Heavy rain has fallen in the west of our Islands, the largest amounts being 1·0 in. at Valencia Island and 0·9 in. at Rhoos Point.

SEA

High at Pembroke and Scilly, and rough or rather so on our west and southwest coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the west of Ireland will probably move northwards, and gales from the S^{ly} are therefore likely on our northern coasts. The rainy weather in the west seems inclined to spread eastwards over the United Kingdom.

FORECASTS

For the 24 hours ending at NOON on 29th November 1891.

DISTRICTS.	FORECASTS.
↓ 0 SCOTLAND NORTH	SE^{ly} and S^{ly} winds, increasing to a gale; squally, some rain or sleet.
↓ 1 SCOTLAND EAST	
2 ENGLAND N.E.	Same as No. 5
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	S^{ly} winds, increasing in force; fair to dull and rainy, becoming milder.
↓ 6 SCOTLAND WEST	Same as Nos. 0 and 1.
↓ 7 ENGLAND N.W.	S^{ly} winds, strong, a gale in places; squally, rain at times.
8 ENGLAND S.W.	
↓ 9 IRELAND NORTH	S^{ly} strong winds and gales, moderating later; squally, rain at times.
10 IRELAND SOUTH	SW^{ly} and S^{ly} winds, varying in force; squally, showery.
WARNINGS	Orders were issued at 10 am to hoist the SOUTH CONE in districts 0. 1. 6. 7. and part of 9.

Note.—The **South Cone**, *point downwards* (↓), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Skudesnaes ...	29.71	40	35	ENE	1	bc	2
Sumburgh Head	29.61	42	41	NW	1	c	4
Stornoway	29.65	42	42	W	3	o	3
Aberdeen	29.76	38	35	WSW	2	b	2
Shields	29.79	38	35	W	3	b	2
Ardrossan	29.79	39	38	ENE	1	cm	1
Malin Head ...	29.77	42	40	S	3	c	2
Mullaghmore ...	29.80	45	42	SSW	2	c	2
Belmullet	29.78	46	43	S	2	o	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.86	45	43	WSW	3	c	3
Valencia	29.80	49	47	SE	4	om	4
Scilly	29.89	48	48	ESE	2	bcmp	4
Jersey	29.98	50	44	NW	3	b	3
Dungeness	29.88	42	40	NW	2	m	1
London	29.90	43	40	WNW	2	bm	*
Yarmouth	29.80	40	38	NW	3	bcm	3
Rochefort	29.99	51	49	NNW	4	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine and bright over the Spanish Peninsula, and by far the greater part of the British Isles and Norway; cloudy or overcast elsewhere, unsettled over the northwestern parts of the Continent as a whole, with rain at Paris and New Fahrwasser, snow at the Swedish stations and Thorder. Rain again setting in over Ireland and at Brest later in the day, and further falls of rain or snow occurring over Sweden, Germany, and the Netherlands.

Temperature unsteady generally; considerable rise over Poland, Hungary, and southern Russia. Morning readings 60° to 70° over the south of Italy and Malta, much lower elsewhere. Exceeding 40° over Austria, Spain, and the west and southwest of our Islands, below 40° in the north and east, and as low as (1) 4° F. at St Petersburg, 5° at Haparanda, 9° at Uleaborg, 14° at Moscow and Kuopio, 29° at Hernösand and Bodö; (2) 29° at Loughborough and Ardrossan, 30° at York, and 32° at Varnontouw. Rising to between 50° and 53° over the southwestern half of our Islands and to 55° and more in the west and south of France, but not touching 60°.

Wind SE^{ly}, moderate over Russia, E^{ly} over northern Europe, and blowing a gale in the Gulf of Finland; W^{ly} to NW^{ly} over the United Kingdom; S^{ly} to SE^{ly} over the Netherlands, W^{ly} over Germany; NE^{ly} over the Iberian Peninsula, very variable over the Mediterranean. Becoming S^{ly} over the western parts of the United Kingdom later, and increasing considerably in strength.

Barometer highest (1) 30·4 ins: and more to 30·0 ins: over Russia, the Black Sea, and Asia Minor; (2) 30·0 ins: and more over the Peninsula and southwest of France, and exceeding 29·9 ins: in a "ridge" extending thence in a northerly direction to our southwest coasts. Lowest 29·6 ins: and less in a depression lying to the northwestward of Sumburgh Hd., and about 29·6 ins: in an irregularly shaped hollow over the North Sea and Baltic. Falling briskly in Ireland later, and fall extending to the eastward and northward.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Sunday 29th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. **R. H. SCOTT,** *Secretary.*

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.92	19	SE	2	o	29.94	+ .10	19	19	+ 19	ENE	2	o	*	21	?	0.04
	Hernösand ...	29.97	23	NW	2	o	29.93	+ .13	13	12	− 9	NNW	4	b	*	25	?	—
	Stockholm ...	29.83	23	NW	2	o	29.89	+ .08	27	26	− 1	NNW	2	o	*	30	21	—
	Wisby	29.80	33	NNW	4	o	29.82	+ .06	33	32	− 3	NNW	8	o	*	39	30	—
	Bodö	29.83	25	E	2	b	29.78	+ .02	31	29	+ 6	ENE	4	o	2	?	21	—
	Christiansund	29.82	38	ESE	3	b	29.65	− .09	38	34	+ 5	ESE	2	b	2	38	?	—
	Skudesnaes ...	29.85	42	SE	6	c	29.73	− .10	44	41	+ 4	SSE	8	o	5	?	39	—
	Christiania Fjord (Færder)	29.94	28	NNW	2	b	29.96	+ .12	25	25	− 3	N	2	f	1	28	25	—
	Skagen (The Scaw)	29.93	33	L	0	b	29.94	+ .15	35	34	− 2	SE	1	o	0	37	28	—
	Fanö	29.95	28	ESE	2	b	29.93	+ .06	32	32	+ 1	ESE	4	f	*	32	27	—
BRITISH ISLANDS.	Sumburgh Head	29.47	44	SSE	6	o	29.13	− .47	46	45	+ 5	SSE	7	c	7	46	38	0.04
	Stornoway ...	29.07	47	S	7	o	29.06	− .33	45	44	+ 1	W	7	o	6	49	43	0.75
	Wick	29.29	46	SSE	8	r	29.13	− .38	45	43	+ 4	SW	7	oq	4	47	37	0.06
	Nairn	29.23	45	ESE	2	c	29.16	− .35	46	44	+ 11	SW	6	c	4	47	32	—
	Aberdeen ...	29.40	44	SSE	9	rqu	29.39	− .24	42	39	0	SSW	6	bcq	6	46	42	0.24
	Leith	29.33	40	S	4	c	29.46	− .15	43	41	+ 7	WSW	3	b	*	47	36	—
	Shields	29.49	42	SSE	4	o	29.54	− .14	38	37	+ 3	SSW	2	b	2	42	34	0.07
	Spurn Head ...	29.60	41	SSE	6	r	29.64	− .14	42	42	+ 3	S	2	cm	3	43	36	0.25
	York	29.57	40	SSE	4	r	29.65	− .08	36	36	+ 3	SSE	1	b	*	42	32	0.49
	Loughborough	29.56	42	SSW	4	r	29.60	− .08	37	37	+ 2	L	0	f	*	45	35	0.26
	Ardrossan ...	29.26	49	SSW	4	c	29.51	+ .05	45	43	+ 5	SW	5	bc	4	49	38	0.13
	Malin Head ...	29.08	45	S	5	ogr	29.46	+ .32	43	39	− 1	NW	5	bcp	4	49	37	0.15
	Mullaghmore ...	29.16	46	SW	8	c	29.58	+ .52	44	40	− 5	W	6	chp	5	51	42	0.08
	Belmullet ...	29.16	46	W	8	opq	29.59	+ .62	44	40	− 3	W	2	b	*	47	41	0.04
	Donaghadee ...	29.31	45	SE	5	b	29.59	+ .20	36	35	− 11	S	4	b	3	50	31	0.52
	Liverpool (Bidston)	29.46	44	SE	4	o	29.67	+ .10	40	38	+ 1	SW	2	b	3	45	39	0.10
	Holyhead ...	29.40	50	SSW	5	ogm	29.65	+ .20	43	40	− 4	W	3	bc	3	50	43	0.15
	Parsonstown ...	29.37	42	L	0	b	29.67	+ .55	32	31	− 17	L	0	b	0	50	32	0.04
	Valencia	29.47	47	W	3	cq	29.70	+ .51	48	47	− 1	N	1	bc	1	50	37	0.03
	Roche's Point ...	29.45	45	W	4	b	29.68	+ .44	37	35	− 13	NW	1	b	4	51	35	—
	Pembroke (St. Ann's Hd.)	29.47	50	WSW	4	bc	29.70	+ .29	45	43	− 3	NW	2	bc	3	51	45	0.24
	Scilly	29.51	51	W	4	bc	29.67	+ .29	47	45	− 4	NE	1	bc	4	53	44	0.07
	Prawle Point ...	29.53	48	WNW	3	o	29.72	+ .11	42	42	− 6	NNW	1	bc	1	51	41	0.11
	Jersey (St. Aubin's)	29.64	48	SE	5	r	29.72	− .05	50	50	+ 3	W	3	om	3	50	44	0.34
	Hurst Castle ...	29.62	47	SSW	7	ormu	29.68	− .08	45	45	− 2	WSW	2	c	2	49	45	0.66
	Dungeness ...	29.75	45	SSW	6	o	29.69	− .17	46	46	+ 2	SSW	5	d	3	46	43	0.02
	London	29.69	44	SSE	3	o	29.70	− .12	46	45	+ 7	W	1	ogd	*	47	39	0.13
	Oxford	29.60	44	S	4	r	29.70	− .06	43	43	+ 5	WSW	1	of	*	46	38	0.49
	Cambridge ...	29.69	40	S	2	r	29.70	− .12	44	43	+ 8	S	1	o	*	44	34	0.22
	Yarmouth ...	29.74	42	SSW	5	c	29.67	− .20	43	42	+ 3	SW	4	omq	4	43	39	0.06
GERMANY & HOLLAND.	Cuxhaven ...	29.95	39	SW	1	r	29.98	+ .09	32	30	− 3	S	3	b	*	40	29	0.04
	Berlin	30.02	39	W	2	o	30.04	+ .09	37	35	+ 1	W	2	o	*	39	36	—
	Wiesbaden ...	*	*	*	*	*	29.95	− .11	31	30	− 4	L	0	b	*	39	30	—
	Munich	29.98	28	NE	4	b	29.97	− .10	27	27	− 1	SE	4	f	*	36	25	—
	The Helder ...	29.92	34	SSE	1	b	29.80	− .15	34	33	− 3	SSE	1	bc	1	39	34	—
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.81	− .19	33	32	+ 3	SSE	1	c	*	37	30	—
	Cape Gris Nez	29.75	39	S	5	o	29.69	− .17	38	37	+ 3	S	3	m	3	41	34	—
	Paris	29.86	35	SE	3	b	29.82	− .17	31	31	+ 2	SE	2	f	*	42	30	—
	Brest	?	52	NW	1	o	?	?	48	48	− 3	SE	1	o	5	54	45	0.67
	Lorient	29.60	53	S	5	r	29.72	+ .01	50	48	− 1	L	0	o	5	54	48	0.32
	Rochefort ...	29.77	44	SSE	4	o	29.77	− .03	47	44	+ 7	SSE	4	r	2	48	40	—
	Belfort	?	31	E	3	bc	?	?	28	22		E	3	b	*	38	23	—
	Lyons	29.95	33	NW	1	f	29.95	− .06	33	33	− 1	W	1	f	*	35	33	—
	Nice	29.91	51	E	4	bc	29.93	+ .09	45	41	− 1	E	1	bc	1	55	45	—
	Perpignan ...	29.89	49	E	1	o	29.88	− .05	46	46	+ 8	W	2	o	*	52	38	—
	Biarritz	29.76	54	S	4	bc	29.77	− .07	53	46	+ 11	S	3	b	1	61	48	—
PENINSULA.	Corunna	*	*	*	*	*	29.94	+ .12	52	48	− 1	N	3	c	2	55	43	0.51
	Lisbon	29.82	55	W	1	r	29.85	− .15	52	48	+ 2	N	5	c	4	57	50	0.83

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Sunday, 29th Nov^r, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

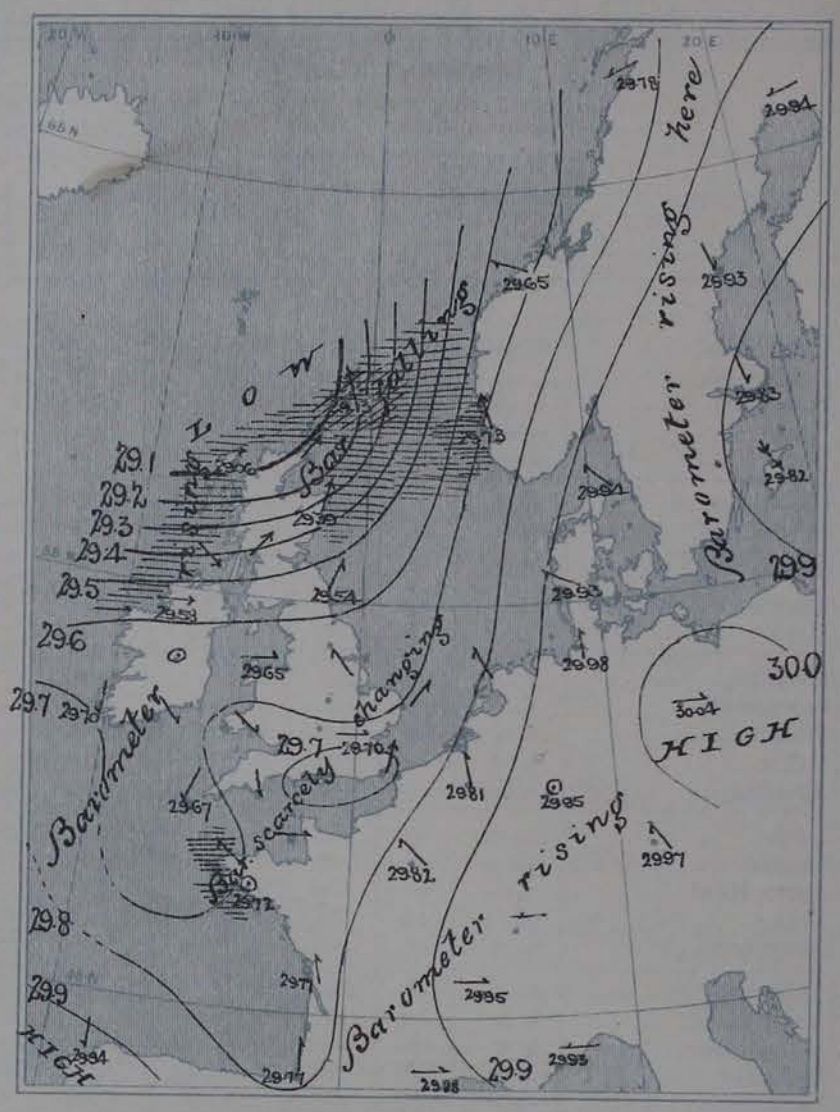
BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

WIND—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—

= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm

SEA DISTURBANCE—Where considerable, is shewn thus:

= Rough. = High.



MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

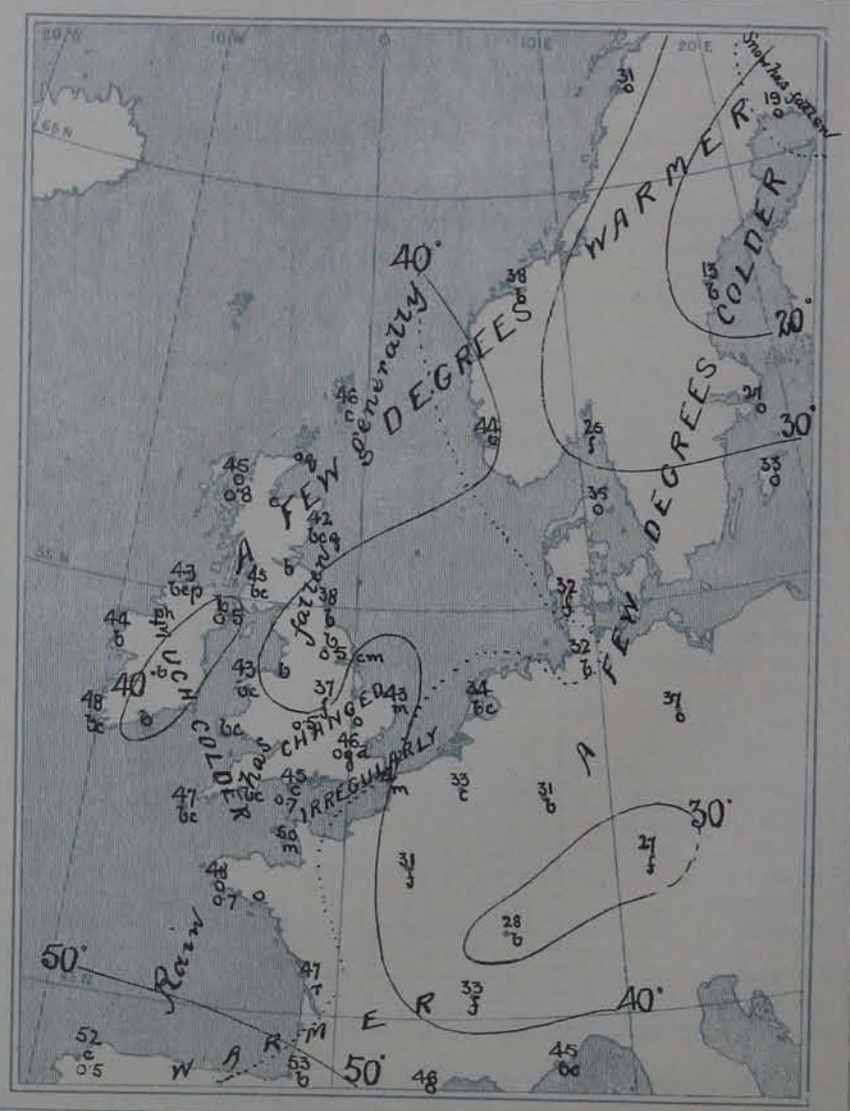
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·683
Stornoway	29·699
Wick	29·722
Nairn	29·738
Aberdeen	29·758
Leith	29·789
Shields	29·813
Spurn Head	29·842
York	29·846
Loughborough	29·877
Ardrossan	29·791
Mullaghmore	29·780
Donaghadee	29·810
Holyhead	29·835
Liverpool	29·851
Parsonstown	29·847
Valencia	29·865
Roche's Point	29·865
Pembroke	29·864
Scilly	29·897
Prawle Point	29·914
Jersey	29·928
Hurst Castle	29·902
Dover	29·893
LONDON	29·898
Oxford	29·896
Cambridge	29·887
Yarmouth	29·865

TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shewn by Letters of the Beaufort Scale.

RAINFALL.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL (Inches.)
Sumburgh Head	45·6	37·8	42·0	40·3	1·16
Stornoway	49·2	37·0	41·7	49·7	4·70
Wick	46·1	36·1	41·4	39·8	2·93
Nairn	45·3	35·7	39·8	38·2	2·29
Aberdeen	46·2	36·5	40·5	38·7	3·14
Leith	48·1	37·0	41·7	40·0	2·20
Shields	47·3	37·9	42·1	40·5	2·61
Spurn Head	46·8	40·2	43·2	41·9	2·40
York	47·5	36·4	40·6	39·3	2·19
Loughborough	48·0	36·6	40·5	39·3	2·24
Ardrossan	47·8	39·1	43·1	41·3	3·88
Mullaghmore	49·6	41·2	45·1	43·1	4·48
Donaghadee	48·3	39·2	43·2	42·0	3·20
Holyhead	49·7	42·9	45·8	44·0	3·88
Liverpool	47·8	39·6	42·5	40·7	2·96
Parsonstown	49·1	37·1	41·9	40·2	2·83
Valencia	52·3	43·0	47·4	45·5	5·42
Roche's Point	51·1	42·0	46·1	44·5	4·62
Pembroke	50·1	43·8	46·9	45·1	4·04
Scilly	52·4	46·7	50·0	48·0	3·72
Prawle Point	51·1	41·9	46·2	44·7	3·20
Jersey	51·9	44·1	47·7	45·8	4·30
Hurst Castle	50·5	40·6	44·9	44·0	3·05
Dover	49·3	40·6	44·3	42·8	3·48
LONDON	49·3	38·0	42·2	40·8	2·23
Oxford	48·2	37·6	41·2	40·0	2·31
Cambridge	48·5	35·8	40·7	39·9	2·01
Yarmouth	47·5	39·0	43·1	42·0	3·06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·0 ins. and upwards in Germany; 29·9 ins. and upwards in another area lying to the westward of Portugal

Lowest, 29·1 ins. and less, in a depression lying off the north of Scotland.

Gradients rather steep over Scotland and the northern parts of the North Sea, but slight elsewhere.

Barometer rising in most parts of Western Europe, but falling a little over the Netherlands and the southeast of England, as well as in the west of Norway.

TEMPERATURE

Highest, 53° at Biarritz, 52° at Corunna and Lisbon, 50° at Jersey and Lorient, and 48° at Valencia Island and Brest.

Lowest, 13° at Hernösand, 18° at Haparanda, 25° at Vardo, 27° at Stockholm and Munich, and 28° at Belfort.

The maxima registered over our Islands yesterday were higher than of late, at some of our southwestern stations the thermometer exceeded 50°.

WIND

Strong from the SW.ly or S.ly in the north of Scotland and from the SE.ly in the west of Norway.

Light from the N.ly or NW.ly on our southwest coasts, and from the S.ly or SE.ly over Denmark, the Netherlands, France, and the east of England.

N.ly in Sweden with a gale at Visby.

WEATHER

Fine over the south of Ireland and the west and north of England, but cloudy in most other parts of Western Europe, with mist and drizzling rain in the southeast of England. Rain is also falling at some of the French stations and fog prevails in South Germany.

During yesterday rain fell in nearly all parts of our Islands, the largest amount being 0·8 in. at Stornoway, 0·7 in. at Hunstanton, and 0·5 in. at Yarmouth and Donaghadee.

SEA

High at Dunbury Head, rough off the north and northeast of Scotland, and rather rough at Mallaghmore, Brest, and Lorient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 30th November 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	None issued	6 SCOTLAND WEST	None issued
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER: D.	THER: W.	WIND D.	WIND F	WEA.	SEA
Skudesnaes ...	29.86	42	39	SSE	6	o	3
Sumburgh Head	29.53	44	42	SSE	4	o	5
Stornoway	29.17	44	44	SE	7	r	6
Aberdeen	29.49	45	42	SSE	8	oqr	6
Shields	29.53	42	40	SE	4	p	3
Ardrossan	29.25	49	47	S	5	o	4
Malin Head ...	29.02	48	46	S	5	o	3
Mullaghmore ...	29.07	48	44	SSW	8	o	6
Belmullet	29.05	46	44	WSW	7	o	*

	BAR:	THER: D.	THER: W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.31	48	48	SSE	8	omq/g	6
Valencia	29.36	49	45	W	4	cq	5
Scilly	29.44	53	51	WSW	5	c	6
Jersey	29.67	47	45	SE	5	r	4
Dungeness	29.79	46	44	SSW	6	bc	5
London	29.71	46	43	SSE	4	o	*
Yarmouth	29.79	43	41	SSW	5	c	4
Rochefort	29.78	48	46	SSE	4	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over Norway, the northern and northeastern parts of Scotland, several parts of France, and many of the Mediterranean coasts; fair and quiet (but dull) over Central Europe, cloudy or overcast elsewhere, with a squally, raining, threatening, condition in Ireland and Scotland, snow at Kuopio, fog over Southern Russia and the Baltic Provinces. Rain later in all parts of the United Kingdom and Brittany (heavy in the northwest and southwest) as well as in Portugal and on the southern and southeastern shores of the Mediterranean, snow in several parts of Russia.

Temperature risen somewhat over northwestern and northern Europe. Morning readings 67° at Malta, 66° at Brindisi, below 60° elsewhere, above 50° on the Italian and Italian coasts, below 40° over Germany and the central parts of the British Islands, much lower elsewhere. Lowest (1) 6° at Moscow, 14° at St Petersburg, 19° at Kuopio and Uleaborg; (2) 28° at Munich and Belfort, 29° at Paris. Not touching 50° over Great Britain or Ireland later, but reaching 55° in the south of France, 61° at Biarritz, 70° and more on the southern side of the Mediterranean.

Wind (1) SE moderate in Norway, mainly S (SE to SW) over the British Islands and the Channel, and blowing a gale in the west and north, S and less strong over the Bay of Biscay and Portugal; (2) NW over the Baltic, SE over Finland and Russia; (3) light and anticyclonic over Central Europe. Increasing in force over the United Kingdom later, and blowing very hard in Scotland, and S breeze spreading inland over France and also over the North Sea.

Barometer highest 30.4 ins. and more to 30.0 ins. over the northeastern and Central parts of France; 30.0 ins. and more to 29.9 ins. in a separate anticyclone over Central Europe and (3) in another over Algeria and the southern half of Spain. Lowest 29.0 ins. and less, in a depression off the west of Ireland and 29.7 ins. and less, in another over the Baltic Provinces and Gulf of Riga. Western depression moving northeastwards later, and barometer subsequently falling to 28.8 ins. at Stornoway; disturbance over Baltic Provinces growing deeper.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* (b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT.

for Monday, 30th November, 1891.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. Barom: Reading at 32° F. and Sea Level.	Temp. Dry.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea. (0 to 6.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.96	4	L	0	bc	29.92	-.02	16	16	- 3	L	0	0	*	21	1	-
	Hernösand ...	29.91	21	N	2	0	29.85	-.08	24	24	+ 11	L	0	0	*	24	9	-
	Stockholm ...	29.87	21	NW	2	0	29.93	+.10	21	21	- 6	L	0	f	*	28	18	-
	Wisby	29.89	30	NW	4	c	29.96	+.14	28	?	- 5	SSE	4	0	*	34	28	-
	Bodö	29.64	36	E	4	b	29.50	-.28	30	28	- 1	E	5	0	3	36	28	-
	Christiansund	29.49	45	SE	8	0	29.70	+.05	48	40	+ 7	SW	2	0	3	45	38	-
	Skudesnaes ...	29.63	43	SSE	8	b	29.68	-.05	42	41	- 2	SSE	5	0	3	45	41	0.20
	Christiania Fjord (Færder)	29.84	35	E	4	0	29.79	-.17	36	35	+ 11	SE	4	r	3	36	? 25	-
	Skagen (The Scaw)	29.82	38	S	4	0	29.76	-.18	37	36	+ 2	SW	2	0	1	39	34	0.12
	Fanö	29.79	35	SSE	4	c	29.77	-.16	37	37	+ 5	SSE	2	0	*	37	32	-
BRITISH ISLANDS.	Sumburgh Head	29.30	45	W	4	r	29.50	+.37	44	42	- 2	SW	3	c	5	48	39	0.18
	Stornoway ...	29.43	40	W	4	crshp	29.84	+.28	45	45	0	SW	8	0	6	45	35	0.05
	Wick	29.43	42	W	4	b	29.48	+.35	43	40	- 2	SW	3	bc	2	46	36	-
	Nairn	29.50	38	SW	3	bc	29.47	+.31	42	40	- 4	SW	1	c	1	47	35	-
	Aberdeen ...	29.57	39	SW	2	b	29.62	+.23	36	35	- 6	S	2	bc	3	45	32	-
	Leith	29.61	40	WSW	3	b	29.65	+.10	39	38	- 4	S	1	c	*	45	34	-
	Shields	29.64	40	SW	2	b	29.72	+.18	33	32	- 5	SW	2	bc	2	46	30	-
	Spurn Head ...	29.74	42	W	3	cm	29.77	+.13	38	37	- 4	S	2	c	2	43	37	-
	York	29.72	39	WSW	1	b	29.79	+.14	29	29	- 7	L	0	f	*	43	28	-
	Loughborough	29.74	32	L	0	f	29.78	+.14	27	27	- 10	L	0	f	*	44	25	-
	Ardrossan ...	29.64	44	WSW	3	b	29.59	+.08	46	44	+ 1	S	5	rm	4	46	40	0.03
	Malin Head ...	29.59	41	S	4	brhp	29.48	+.02	42	41	- 1	SSW	5	0 p	3	44	37	0.08
	Mullaghmore ...	29.62	44	S	5	og	29.54	-.04	45	44	+ 1	WSW	5	c p	3	45	41	0.19
	Belmullet ...	29.56	44	SSW	3	o	29.54	-.05	46	44	+ 2	W	2	o	*	47	43	0.20
	Donaghadee ...	29.70	37	SW	3	b	29.62	+.03	42	41	+ 6	WSW	5	r	3	43	34	0.11
	Liverpool (Bidston)	29.76	40	SW	2	b	29.76	+.09	33	32	- 7	SE	3	bc	2	46	32	-
	Holyhead ...	29.72	41	L	0	b	29.69	+.04	46	44	+ 3	S	3	cgmw	2	48	37	-
	Parsonstown ...	29.69	38	L	0	b	29.62	-.05	43	43	+ 11	L	0	c	*	44	31	0.15
	Valencia	29.68	46	S	3	bc	29.67	-.03	47	45	- 1	WNW	2	o	2	49	36	0.22
	Roche's Point ...	29.78	47	S	2	bc	29.67	-.01	47	46	+ 10	WSW	2	c	4	48	37	0.20
	Pembroke (St. Ann's Hd.)	29.75	45	ESE	1	bc	29.75	+.05	48	45	+ 3	SSW	4	bc	3	49	41	0.06
	Scilly	29.72	48	NE	1	c	29.78	+.11	48	46	+ 1	SW	4	bc	5	48	45	0.28
	Prawle Point ...	29.76	44	ENE	2	o	29.83	+.11	43	42	+ 1	WNW	1	b	1	48	40	0.02
	Jersey (St. Aubin's)	29.77	50	WSW	2	om	29.84	+.12	47	44	- 3	WSW	3	bw	3	53	45	0.01
	Hurst Castle ...	29.76	44	ENE	2	c	29.81	+.13	40	40	- 5	NNW	1	omw	0	48	39	0.02
	Dungeness ...	29.73	47	WSW	1	m	29.78	+.09	48	48	+ 2	L	0	m	1	49	43	0.16
	London	29.75	44	W	1	om	29.81	+.11	37	36	- 9	L	0	gfd	*	47	36	0.02
	Oxford	29.80	35	L	0	f	29.83	+.13	30	30	- 13	L	0	f	*	43	29	-
	Cambridge ...	29.77	40	L	0	0	29.81	+.11	31	31	- 13	L	0	f	*	47	28	-
	Yarmouth ...	29.71	44	NW	2	om	29.80	+.13	33	32	- 10	W	1	f	3	45	32	0.06
GERMANY & HOLLAND.	Cuxhaven ...	29.88	36	SSW	2	0	29.86	-.12	37	36	+ 5	SSW	1	f	*	39	32	0.14
	Berlin	29.99	33	SSE	3	b	29.94	-.10	27	26	- 10	SSE	2	b	*	39	27	-
	Wiesbaden ...	*	*	*	*	*	29.99	+.04	33	32	+ 2	L	0	0	*	36	31	-
	Munich	29.97	28	L	0	f	30.02	+.05	23	23	- 4	S	2	f	*	28	21	-
	The Helder ...	29.78	37	S	1	r	29.85	+.05	36	36	+ 2	S	1	f	1	41	34	0.16
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	29.86	+.05	38	37	+ 5	SSE	1	r	*	39	33	0.32
	Cape Gris Nez	29.73	42	S	3	r	29.77	+.08	45	45	+ 7	S	2	r	2	45	36	0.32
	Paris	29.84	43	S	1	r	29.88	+.06	41	41	+ 10	SSE	2	r	*	43	31	0.20
	Brest	?	50	W	2	c	?	?	49	48	+ 1	NW	3	c	3	52	46	-
	Lorient	29.73	51	WNW	1	0	29.88	+.16	47	44	- 3	W	1	b	4	54	45	-
	Rochefort ...	29.79	46	ENE	2	r	29.93	+.16	48	47	+ 1	SW	2	0	*	48	46	0.20
	Belfort	?	30	?	3	bc	?	?	28	?	0	SW	3	bc	*	50	26	-
	Lyons	29.90	39	N	2	b	30.01	+.06	32	31	- 1	WNW	1	b	*	47	29	-
	Nice	29.89	48	L	0	b	30.01	+.08	47	40	+ 2	NE	3	c	2	55	43	-
	Perpignan ...	29.88	45	SE	2	b	29.97	+.09	41	41	- 5	SW	2	bc	*	56	39	-
	Biarritz	29.83	53	WSW	4	0	29.94	+.17	49	48	- 4	E	2	r	5	59	46	0.55
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	29.96	60	NNW	3	b	30.03	+.18	51	47	- 1	WNW	3	bc	0	55	50	-

For Explanation of Columns, see bottom of p. 4.

† *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Monday, 30th November, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

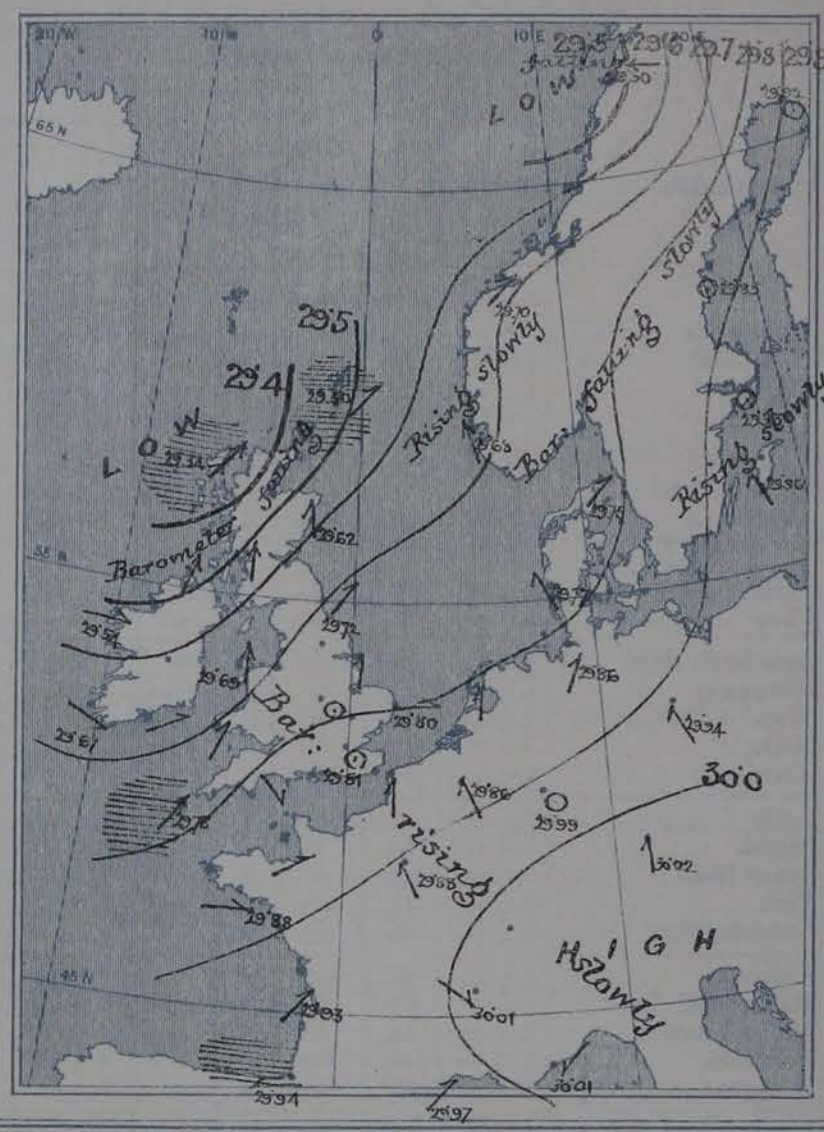
WIND - Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shewn thus:
= Rough. = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29 · 683
Stornoway	29 · 699
Wick	29 · 722
Nairn	29 · 738
Aberdeen	29 · 758
Leith	29 · 789
Shields	29 · 813
Spurn Head	29 · 842
York	29 · 846
Loughborough	29 · 877
Ardrossan	29 · 791
Mullaghmore	29 · 780
Donaghadee	29 · 810
Holyhead	29 · 835
Liverpool	29 · 851
Parsonstown	29 · 847
Valencia	29 · 865
Roche's Point	29 · 865
Pembroke	29 · 864
Scilly	29 · 897
Prawle Point	29 · 914
Jersey	29 · 928
Hurst Castle	29 · 902
Dover	29 · 893
LONDON	29 · 898
Oxford	29 · 896
Cambridge	29 · 887
Yarmouth	29 · 865



TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

TEMPERATURE—Isotherms are drawn for each 10°. Changes since precious morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

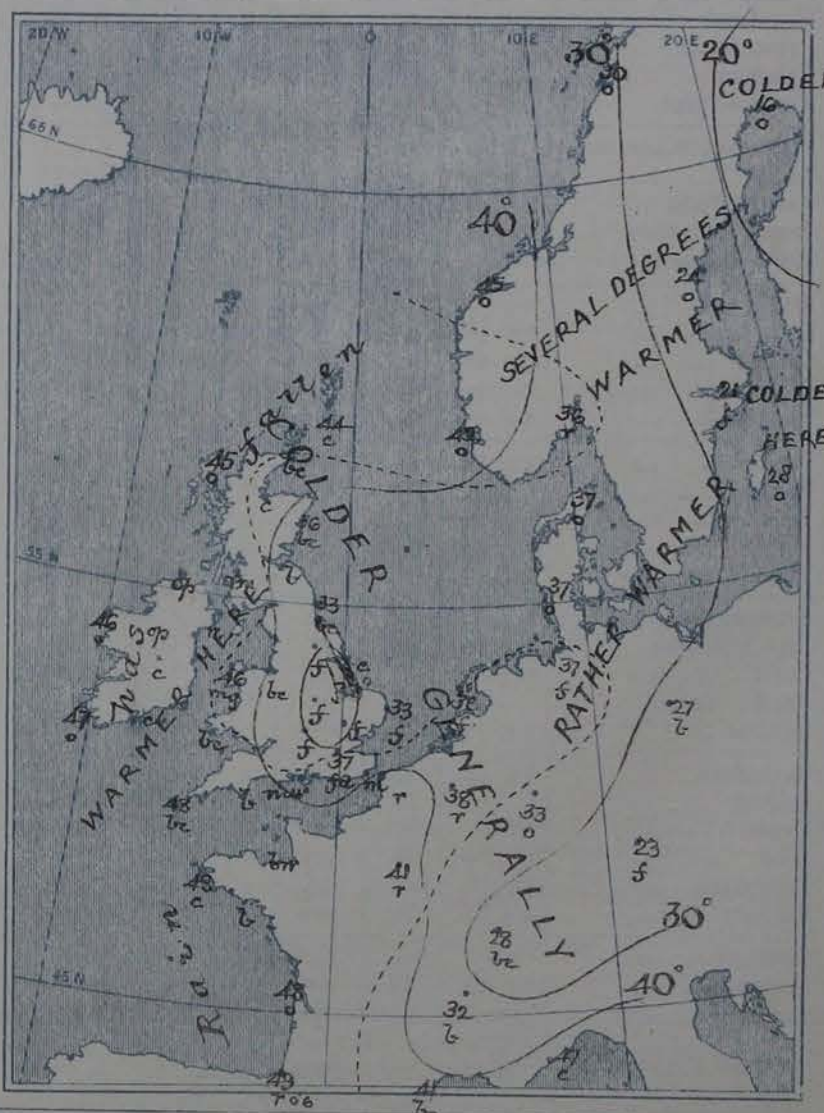
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches.)
Sumburgh Head	45 · 6	37 · 8	42 · 0	40 · 3	4 · 16
Stornoway	46 · 2	37 · 0	41 · 7	40 · 7	4 · 70
Wick	46 · 1	36 · 1	41 · 4	39 · 8	2 · 93
Nairn	45 · 3	35 · 7	39 · 8	38 · 2	2 · 29
Aberdeen	46 · 2	36 · 5	40 · 5	38 · 7	3 · 14
Leith	48 · 1	37 · 0	41 · 7	40 · 0	2 · 20
Shields	47 · 3	37 · 9	42 · 1	40 · 5	2 · 61
Spurn Head	46 · 8	40 · 2	43 · 2	41 · 9	2 · 40
York	47 · 5	36 · 4	40 · 6	39 · 3	2 · 19
Loughborough	48 · 0	36 · 6	40 · 5	39 · 3	2 · 24
Ardrossan	47 · 8	39 · 1	43 · 1	41 · 3	3 · 88
Mullaghmore	49 · 6	41 · 2	45 · 1	43 · 1	4 · 48
Donaghadee	48 · 3	39 · 2	43 · 2	42 · 0	3 · 20
Holyhead	49 · 7	42 · 9	45 · 8	44 · 0	3 · 88
Liverpool	47 · 8	39 · 6	42 · 5	40 · 7	2 · 96
Parsonstown	49 · 1	37 · 1	41 · 9	40 · 2	2 · 83
Valencia	52 · 3	43 · 0	47 · 4	45 · 5	5 · 42
Roche's Point	51 · 1	42 · 0	46 · 1	44 · 5	4 · 62
Pembroke	50 · 1	43 · 8	46 · 9	45 · 1	4 · 04
Scilly	52 · 4	46 · 7	50 · 0	48 · 0	3 · 72
Prawle Point	51 · 1	41 · 9	46 · 2	44 · 7	3 · 20
Jersey	51 · 9	44 · 1	47 · 7	45 · 8	4 · 30
Hurst Castle	50 · 5	40 · 6	44 · 9	44 · 0	3 · 05
Dover	49 · 3	40 · 6	44 · 3	42 · 8	3 · 48
LONDON	49 · 3	38 · 0	42 · 2	40 · 8	2 · 23
Oxford	48 · 2	37 · 6	41 · 2	40 · 0	2 · 31
Cambridge	48 · 6	35 · 8	40 · 7	39 · 9	2 · 01
Yarmouth	47 · 5	39 · 0	43 · 1	42 · 0	3 · 06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·0 ins. and upwards, over the southern parts of France, Spain, and Germany.

Lowest 29·4 ins. and less, in a depression lying off the northwest of Scotland.

Gradients slight generally. Barometer falling in the extreme northwest of our Islands, as well as at many of the Scandinavian and Danish stations, but rising elsewhere.

TEMPERATURE

Highest, 51° at Lisbon, 49° at Biarritz, 48° at Pembroke, Scilly, and Rochefort, and 47° at Valencia Island, Roche Point, Jersey, Lorient and Nice.

Lowest, (1) 16° at Haparanda, 21° at Stockholm, 24° at Hernösand; (2) 23° at Munich and 27° at Berlin; (3) 27° at Loughborough and York.

A considerable fall has taken place since yesterday over the eastern and central parts of England.

WIND

S. or SW. at most of our western and northern stations, with a gale in the Hebrides, but W. in the south of Ireland.

S. or SE. over Norway, Denmark, Germany, and the Netherlands.

Calm over the central and southeastern parts of England, variable in France.

WEATHER

Varies considerably in different places; foggy over England and the Netherlands, as well as at Stockholm and Munich.

Dull and rainy in the north of Ireland and the west of Scotland, raining also at several of the French and Belgian stations, as well as at Dresden.

Rain fell yesterday in many parts of Ireland and England, but the amounts were in most cases very slight.

SEA

Rather rough off the north of Scotland and also at Scilly and Biarritz, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the northwest of Scotland will probably travel away to the northward, but some further increase of wind is probable on our extreme north and northwest coasts. The fog over England seems likely to continue for a time.

FORECASTS

For the 24 hours ending at NOON on 1st December 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW. winds, strong; fair to dull and some rain	6 SCOTLAND WEST	S. to SW. winds, strong; unsettled, some rain.
1 SCOTLAND EAST	S. and SW. winds, freshening; fair to dull and some rain.	7 ENGLAND N.W.	SW. winds, moderate or fresh; fair generally.
2 ENGLAND N.E.	S. and SW. winds, light; fair generally.	8 ENGLAND S.W.	
3 ENGLAND EAST	Calms and light SW. breezes; foggy, damp.	☟ 9 IRELAND NORTH	SW. winds, increasing in force; dull, rain at times.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	W. and SW. winds, light; fair to showery.
5 ENGLAND SOUTH		WARNINGS	Orders were issued at 7·30 pm yesterday to hoist the South Cone in district 10, and part of 9, and at 10 am today to lower the Cone in district 10.

Note.—The **South Cone**, *point downwards* (☟), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (☝), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. D.	THER. W.	WIND D	WIND F	WEA.	SEA
Skudesnaes ...	29.66	45	42	SSE	8	r	6
Sumburgh Head							
Stornoway	29.37	45	44	W	3	bc	4
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29.59	42	39	W	4	c	5
Mullaghmore ...							
Belmullet	29.62	44	41	S	2	c	*

	BAR.	THER. D.	THER. W.	WIND D.	WIND F.	WEA.	SEA
Holyhead	29.71	45	42	NNW	1	b	2
Valencia							
Scilly							
Jersey	29.74	52	50	NSW	3	o	3
Dungeness	29.70	49	49	SW	4	c	3
London							*
Yarmouth							
Rochefort	29.77	48	46	SSE	3	o	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather in morning fine and bright over Ireland and the northern half of Great Britain as well as in many parts of the south of France, Spain and Algeria but Hernösand and Archangel, cloudy more or less, or overcast elsewhere, with fog in places. Thick drizzling rain over the southeast of England and some of the northern parts of France, rain at Rochefort, Naples, Kharkov and Moscow. Snow in the south of Finland. Rain later (1) in the Shetlands and south of Norway; (2) in the west and south of the British Islands, the Netherlands and north of France; (3) at Biarritz. Amounts small in England.

Temperature in morning. Highest (62°) at Malta and exceeding 60° at that station only; above 55° over nearly all the Mediterranean coasts, in Portugal and the north of Spain, below 50° over our Islands (below 40° inland) and below the freezing point over Central Europe and northern Russia. Lowest (1) 6° at Archangel, 13° at Hernösand, and 17° to 19° over Finland; (2) 27° at Munster, Prague and Munich, 28° at Belfort, 30° at Lemberg, 31° at Paris, Wiesbaden and Breslau. Not touching 50° over Gt Britain or Ireland all day but exceeding that value in the west and north of France and at Lisbon.

Wind very variable (1) W⅔ to S⅔ over the northern parts of the United Kingdom, SE⅔ in Norway; (2) E⅔ to NE⅔ over Finland, N⅔ in Sweden, NW⅔ to W⅔ over N. Germany; (3) NE⅔ at Trieste, NW⅔ to N⅔ over northern Italy, SW⅔ to SE⅔ over southern Italy. Very light, with no general direction elsewhere. Backing S.wds in Ireland later, but not increasing much in force.

Barometer Highest (1) 30.2 ins. and more to 30.0 ins. over the N. and NE. of Russia; (2) 30.1 ins. and more to 30.0 ins. over the Black Sea and S.tn Russia; (3) 30.0 ins. and more to 29.9 ins. over Algeria and the S. of Spain and (4) 29.9 ins. and more over the Atlantic to the westward of Spain. Lowest (1) 29.1 ins. and less in a depression off the N. of Scotland (2) 29.6 ins. and less in another over the Baltic Provinces; (3) 29.8 ins. and less in a third over the southern half of Italy. Shallow local disturbances over the channel & S. of England. N.ly depression travelling N.ds later.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD

FROM THE 22ND TO 28TH NOV. 1891.

The weather of last week was for the most part changeable and unsettled with frequent showers in the western and northern parts of our Islands, and with occasional fogs over England. At the close of the period fresh S⅔ gales were experienced in many places, with heavy rain in some parts of Ireland and Scotland.

At the beginning of the week barometrical pressure was highest to the westward and lowest to the eastward of our Islands the wind very light from the W.wd or NW.wd and the weather fair in most places, but with local showers.

On the 23rd, however, a series of depressions began to approach our extreme northwestern and northern coasts and for the next few days S⅔ and SW⅔ winds and showery weather prevailed in the west and north while calms or light variable airs and fogs were reported in the southeast. Temperature was low generally, with night frosts in many places.

On the night of the 27th a large and rather deep depression appeared off the west of Ireland and occasioned fresh S⅔ gales with heavy rain in Ireland and the southwest of England. During the ensuing 24 hours the disturbance moved northwards along our extreme west coasts and the gales spread to our north coasts, while equally rainy weather set in over the greater part of the United Kingdom. The frost which occurred over England during the night of the 27th or early morning of the 28th was the sharpest experienced this season but in the course of the day the thermometer rose quickly and at the close of the week the weather was fairly mild in all districts.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	8 A.M. TO-DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direct.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
2	Coruna	*	*	*	*	*	30·17	+·13	62	55	0	SW	2	b	2	66	55	-
3	Coruna	*	*	*	*	*	30·02	-·17	52	-	-10	E	2	r	1	66	50	-
4	Coruna	*	*	*	*	*	30·00	-·02	55	51	+3	ENE	2	o	3	59	46	-
5	Brest	?	48	ENE	2	bc	?	?	50	-	+12	E	3	o	3	54	37	-
..	Coruna	*	*	*	*	*	30·16	+·16	54	50	-1	NE	5	bc	3	59	50	-
6	Lyons	30·32	35	NNW	3	bc	30·34	+·07	27	-	-4	N	1	c	*	39	25	-
..	Coruna	*	*	*	*	*	30·19	+·08	53	50	-1	NE	5	bc	3	55	50	-
10	Belfort	?	36	W	1	o	?	?	44	-	+21	W	1	r	*	45	?23	0·12
..	Coruna	*	*	*	*	*	29·82	-	57	55	-	S	6	o	4	59	48	0·18
11	Coruna	*	*	*	*	*	29·68	-·14	55	52	-2	SW	4	r	5	68	52	-
..	Lisbon	29·99	63	SSW	6	o	29·85	-·28	61	61	+4	SSW	7	r	?	63	?	0·67
12	Cape Gris Nez	29·10	50	SW	9	c	29·58	+·10	42	41	-10	SSW	4	r	6	55	37	0·16
..	Brest	?	50	WNW	6	o	29·43	-	49	-	0	SSW	5	r	6	52	45	0·39
..	Perpignan	29·65	54	2	o	o	29·83	+·15	49	-	+4	SW	1	o	*	62	46	-
..	Biarritz	-	-	-	-	-	29·71	+·13	51	-	-11	WSW	5	c	6	66	48	1·42
..	Coruna	*	*	*	*	*	29·44	-·24	54	-	-1	SW	5	r	5	55	45	0·16
..	Lisbon	29·91	55	WNW	1	b	29·79	-·04	57	54	-4	SSW	4	o	?	63	54	1·02
13	Nice	29·85	55	2	o	c	29·83	-	57	-	-	SW	2	r	3	61	50	0·08
..	Lisbon	29·58	54	WSW	5	r	29·60	-·19	50	48	-7	WSW	6	r	?	63	50	0·43
14	Cape Gris Nez	29·25	49	SW	4	bc	29·30	+·13	41	40	-8	SSE	4	bc	4	52	39	0·27
16	Cape Gris Nez	29·21	50	SSW	4	o	29·36	+·21	50	-	+4	SW	4	o	4	52	45	0·47
..	Belfort	?	44	W	3	r	?	?	39	?	+3	W	3	o	*	50	37	0·24
17	Coruna	*	*	*	*	*	30·16	-	62	?	-	WSW	6	o	4	63	52	0·04
18	Cape Gris Nez	29·82	49	WSW	4	c	30·03	+·28	45	-	-3	S	3	o	3	52	43	0·12
19	The Helder	30·04	46	S	3	o	30·00	-·04	51	-	+4	SSW	3	o	3	52	46	0·04
..	Lyons	30·28	55	N	1	b	30·28	+·02	41	-	-10	S	1	c	*	62	40	-
..	Coruna	*	*	*	*	*	30·14	-	53	-	-	S	4	b	?	66	48	-
20	Coruna	*	*	*	*	*	30·06	-·08	54	50	+1	S	4	b	2	63	45	-
21	Coruna	*	*	*	*	*	30·06	·00	51	50	-3	S	1	m	1	?	?	-
23	Coruna	*	*	*	*	*	29·65	-·20	53	51	0	NE	5	r	4	55	45	0·32
24	Coruna	*	*	*	*	*	29·91	+·26	49	47	-4	ENE	5	r	4	?	43	1·26
25	Perpignan	29·76	57	2	o	o	29·71	+·05	52	-	0	2	0	o	*	68	47	-
..	Coruna	*	*	*	*	*	29·89	-·02	51	48	+2	NNE	4	c	5	52	45	-
26	Coruna	*	*	*	*	*	30·05	+·16	45	44	-6	N	1	m	1	52	37	-
27	Stairn	29·84	52	SW	1	o	29·87	+·13	48	-	-3	E	1	bc	1	57	46	0·12
..	Coruna	*	*	*	*	*	30·16	+·11	42	41	-3	SE	4	b	4	54	34	-
28	Belfort	?	52	E	2	c	?	?	28	-	-8	E	2	c	*	41	23	-
..	Coruna	*	*	*	*	*	29·82	-·34	53	51	+11	SSW	6	o	4	55	39	0·08

2. CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	8 A.M. TO-DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
2	Shields	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·01
..	Jersey	30·46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Dungeness 2pm	-	-	-	-	-	30·42	-	-	-	-	-	-	-	-	-	-	-
8	York	30·34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
..	Loughborough	-	-	-	-	-	-	-	-	47	-	-	-	-	-	-	-	-
9	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·03
10	Rocke's Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·20
11	Spurn Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	?39	-	-
..	Hurst Castle	-	-	-	-	-	-	-	56	56	-	-	-	-	-	-	-	-
..	Wiesbaden	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·04
..	Lorient	29·46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Prawle Point	?29·25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Rocke's Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-
-	Prawle Point	-	-	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Mullaghmore	29·48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
..	Lyons	29·58	53	S	2	0	29·73	+·17	46	?	-4	S	-	bc	*	60	46	No rain
..	Ardrossan 2pm	-	-	-	-	-	-	-	47	-	-	-	-	-	-	-	-	-
17	Aberdeen	-	-	-	-	-	-	-	-	-	-	SSE	-	-	-	-	-	0·13
..	Ardrossan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	-	-
..	Valencia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-
..	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·10
18	Ardrossan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·01
19	Nairn	29·50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
..	Holyhead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·13
..	Scilly	-	-	-	-	-	29·94	+·14	-	-	-	-	-	-	-	-	-	-
21	Aberdeen	-	-	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-
..	Parsonstown	-	-	-	-	-	29·98	+·05	-	-	-	-	-	-	-	-	-	-
23	Donaghadee	29·82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	York	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-
..	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·05
..	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·09
..	Cambridge	-	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Loughborough	-	-	-	-	-	-	-	-	34	-	-	-	-	-	-	-	-
..	Mullaghmore	29·75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	Loughborough	-	-	-	-	-	29·64	-	-	-	-	-	-	-	-	-	-	-
..	Jersey	-	-	-	-	-	-	-	-	49	-	-	-	-	-	-	-	-