METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS

1ST JULY TO 31ST DECEMBER, 1898.

DAILY WEATHER REPORT.

July to December 1898.

WYMAN AND SONS, LTD. LITH. LONDON. 3013. 7. 98.

DAILY WEATHER REPORT

for 8 a.m. on Friday 1st July. 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.95	59	7	0	c	29.84	− .15	64	59	+ 10	7	0	0	*	c	*	64	52	—
	Hernösand ...	29.89	55	7	0	f	29.80	− .20	60	56	+ 6	N	2	bc	*	f	*	60	50	—
	Stockholm ...	29.86	61	S	2	0	29.83	− .15	59	59	− 4	SW	2	r	*	0	*	68	52	0.04
	Wisby	29.91	59	WSW	4	bc	29.94	− .07	60	55	− 2	W	6	b	*	bc	*	63	50	—
	Karlstad ...	29.84	61	S	2	b	29.84	− .06	59	57	+ 2	S	2	0	*	r.b	*	*	*	0.08
	Bodö	29.79	59	N	2	c	29.84	+ .03	56	53	− 13	7	0	0	0	c	*	69	50	0.20
	Christiansund ...	29.89	54	W	2	r	29.94	+ .12	55	51	− 2	WSW	1	f	3	r	*	59	52	0.04
	Skudesnaes ...	29.91	53	NNW	6	c	29.97	+ .08	56	52	0	NNW	4	of	3	r.c	*	56	46	*
	Færder (Christiania Fjord)	29.85	60	WSW	2	m	29.80	− .06	58	51	0	SSE	1	m	2	m	*	64	51	—
	Skagen (The Scaw)	29.91	59	W	3	m	29.84	− .04	51	53	− 1	WSW	4	0	1	m	*	64	57	—
	Fanö	29.99	57	SW	2	0	30.01	+ .02	55	51	0	WNW	4	c	*	0	*	64	54	0.04
British Islands.	Sumburgh Head	29.94	54	SW	3	c	29.94	+ .05	53	51	0	W	7	0	3	c	*	57	50	—
	Stornoway ...	30.02	56	W	3	0	29.99	+ .01	55	53	− 1	W	3	0	3	p.c.0	2.3	58	47	0.05
	Wick	30.05	56	NW	2	0	30.04	+ .05	57	52	+ 3	NW	2	c	1	0	*	61	50	—
	Nairn	30.04	58	W	3	c	30.04	+ .04	58	52	+ 2	SW	3	b	1	c	*	65	50	—
	Aberdeen ...	30.06	56	SW	1	0g	30.06	+ .07	59	52	+ 3	W	2	c	1	cf.0g	2.2	64	51	—
	Leith	30.06	63	W	1	bc	30.09	+ .10	57	53	− 3	W	1	0	*	bc	*	69	52	—
	Shields	30.09	55	NE	1	0	30.12	+ .14	59	55	− 1	W	3	c	2	r.0	*	61	46	0.04
	Spurn Head ...	30.07	56	N	3	0	30.15	+ .15	58	54	− 3	NW	3	bc	3	0.rt	*	66	53	0.03
	York	30.07	62	W	1	0	30.16	+ .16	58	53	− 4	W	1	c	*	c.dp.0	0.1	65	45	0.04
	Loughborough ...	30.09	68	WNW	4	c	30.22	+ .18	55	52	− 7	WNW	2	ow	*	op.c.bc	*	72	46	0.03
	Ardrossan ...	30.11	59	W	4	0	30.13	+ .09	55	53	− 1	SSW	3	0	2	0	*	63	52	—
	Malin Head ...	30.11	57	WNW	4	c	30.14	+ .04	56	53	+ 2	WSW	3	ow	2	0.c	*	58	52	—
	Belmullet ...	30.21	57	W	2	0	30.16	.00	58	54	+ 2	WSW	2	0	*	0	*	60	51	0.01
	Donaghadee ...	30.17	56	NW	3	0	30.18	+ .09	56	54	+ 2	W	3	0	1	0	*	59	52	—
	Liverpool (Bidston)	30.14	58	WNW	3	c	30.21	+ .16	57	54	− 1	W	2	0	3	p.c	*	62	54	0.01
	Holyhead ...	30.18	56	NW	1	c	30.21	+ .14	60	56	+ 4	W	1	c	1	0.c	*	61	52	—
	Parsonstown ...	30.19	62	NW	1	c	30.14	+ .01	57	53	0	S	1	0	*	c	2.2	63	47	—
	Valencia ...	30.26	60	WNW	1	bc	30.17	− .03	57	56	0	SSE	1	r	2	c.bc	12.9	61	45	0.10
	Roche's Point ...	30.23	63	NNW	3	b	30.23	+ .05	55	52	− 3	SE	1	0	1	b	*	67	49	—
	Pembroke (St. Ann's Hd.)	30.21	59	NW	3	b	30.23	+ .11	58	55	+ 1	SW	3	c	2	b	8.3	62	54	—
	Scilly	30.26	60	WNW	3	bc	30.26	+ .10	59	59	+ 1	W	3	f	3	ow.bc	3.9	63	56	0.01
	Prawle Point ...	30.19	61	WSW	3	b	30.20	+ .15	57	56	− 1	WSW	2	bc	1	b	*	63	53	—
	Jersey (St. Aubin's)	30.23	60	W	4	ow	30.33	+ .15	60	58	0	WSW	3	0	3	f.ow	*	62	56	—
	Hurst Castle ...	30.13	65	WSW	4	bc	30.27	+ .16	63	59	+ 4	WSW	1	bcm	1	cm.bc	*	65	53	—
	Dungeness ...	30.10	58	SW	4	0	30.21	+ .10	61	56	+ 3	NW	2	bc	1	0	*	62	55	—
	North Foreland ...	30.11	64	SW	3	c	30.20	+ .09	57	54	− 3	W	4	b	3	0.c	*	66	54	—
	London (Brixton) ...	30.08	71	S	3	b	30.24	+ .15	60	52	0	WSW	3	c	*	0.bc	1.6†	73	54	—
	Oxford	30.12	65	N	2	0	30.25	+ .17	58	53	− 2	W	2	bc	*	0.bc	*	72	49	—
	Cambridge ...	30.07	64	E	0	0	30.22	+ .15	60	54	− 1	NNW	3	b	*	0.p	0.1	72	49	0.16
	Yarmouth ...	30.05	66	WSW	2	c	30.14	+ .10	58	55	− 4	NW	3	c	3	cp.c	*	67	52	0.18
Germany & Holland.	Cuxhaven ...	30.04	63	WSW	3	c	30.06	+ .04	57	56	+ 1	NW	4	0	*	c	*	68	55	0.04
	Berlin	30.09	66	SW	4	c	30.11	+ .03	62	59	0	SW	3	0	*	c	*	72	57	—
	Wiesbaden ...	*	*	*	*	*	30.18	− .02	60	59	+ 3	NW	1	0	*	*	*	73	57	0.04
	Munich	30.32	59	SE	1	b	30.32	+ .04	61	55	+ 3	SW	4	c	*	b	*	66	53	—
	The Helder ...	30.06	59	SW	2	r	30.11	+ .10	59	56	− 3	NNE	1	bc	2	r	*	64	57	0.24
France & Belgium.	Brussels ...	*	*	*	*	*	30.18	+ .02	58	57	0	WSW	3	r	*	0	*	68	57	—
	Cape Gris Nez ...	?	57	WSW	4	m	?	?	58	54	+ 2	NW	1	m	1	m	*	61	54	—
	Paris	30.22	68	W	3	bc	30.27	+ .06	61	58	0	W	2	0	*	bc	*	75	60	—
	Brest	30.28	59	NW	1	m	30.34	+ .13	57	57	+ 1	NW	1	m	1	m	*	61	54	—
	Lorient	30.28	62	W	4	m	30.34	+ .15	59	59	0	NW	2	c	2	m	*	66	57	—
	Rochefort ...	30.27	67	NW	3	bc	30.38	+ .15	63	62	+ 2	NW	3	f	*	bc	*	77	61	—
	Belfort	30.18	68	W	1	m	30.26	+ .02	60	57	+ 3	7	0	m	*	m	*	73	50	—
	Lyons	30.23	71	N	1	b	30.30	+ .04	66	59	+ 7	NNE	1	b	*	b	*	73	57	—
	Nice	30.17	66	WSW	2	b	30.18	+ .02	69	60	+ 4	E	1	b	0	b	*	72	59	—
	Perpignan ...	30.21	78	N	2	b	30.30	+ .05	71	61	+ 7	NNW	2	b	*	b	*	81	59	—
	Biarritz ...	30.28	68	NW	3	bc	30.35	+ .16	64	60	+ 3	W	2	b	2	bc	*	70	59	—
Peninsula.	Corunna ...																*			
	Lisbon	30.12	79	NNW	5	b	30.17	+ .06	76	65	+ 5	E	1	b	*	b	*	86	71	—
	Azores (P. Delgada)	30.35	67	NE	4	0	30.35	+ .03	66	63	+ 1	NE	4	bc	2	b	*	72	63	—

For Explanation of Columns, see bottom of last page. †. The corresponding value in yesterday's report should have been 11.9 hours.

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 2.0 *hrs;*

WEATHER CHARTS

FOR Friday, 1st July, 1898

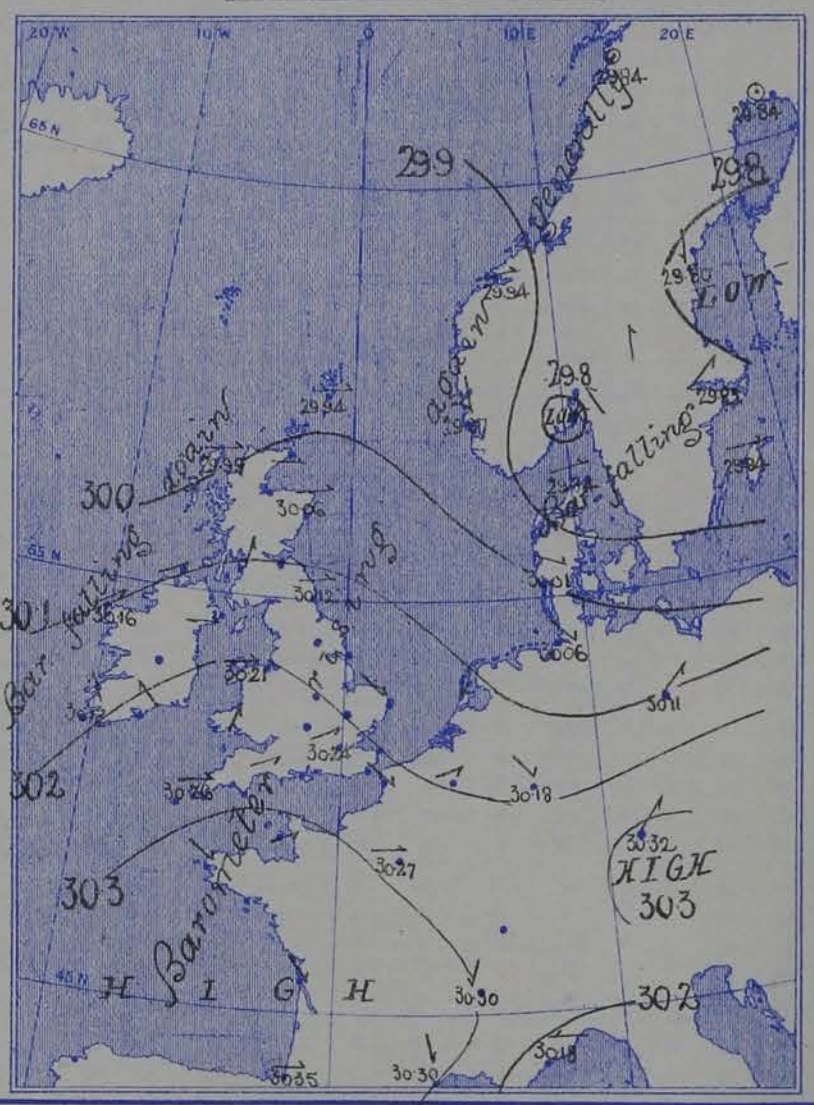
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ➤⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

SEA—Rough ; *High*


20°W
10°W
0
10°E
20°E
65°N
55°N
45°N
299
298
300
301
302
303
Barometer falling slowly
Barometer falling
Bar falling
Barometer
HIGH
303
H I G H
Lon
Lon
Bar
Bar
Bar

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.3 ins. and upwards over the greater part of France; 30.1 ins. and upwards in an anticyclone covering the whole of Ireland, England, France, Germany & the Netherlands.
Lowest 29.8 ins. and less in a shallow depression over the southern part of the Gulf of Bothnia and also in a very small system near the mouth of the Christiania Fiord.
Gradients slight. Barometer falling in the W. and N. of our Islands, and also in Sweden; rising in most other parts of our area.

TEMPERATURE

Highest (1) 76° at Lisbon, 71° at Perpignan, 69° at Nice, and 66° at Lyons; (2) 64° at Haparanda; (3) 63° at Hurst Castle, and 61° at Dungeness.
Lowest 53° at Stumbugh Hd., and 55° at Christiansund, Fano, Stornoway, Ardrossan, Rochs Pt. and Loughborough.
During yesterday the thermometer rose to 70° and upwards at several of the English stations. On the extreme N. and NW. coasts it scarcely touched 60°.

WIND

Light from the SE^wd. in the south of Ireland, and from the SW^nd. on most other parts of our western coasts.
W^ly. or NW^ly. over the eastern and central parts of Gt. Britain and also over France and the eastern shores of the North Sea.
SW^ly. at Berlin and Munich and also in the south of Sweden.

WEATHER

Fine over the E^rn. and central parts of Gt. Britain and also in the S. of France.
Cloudy or dull elsewhere, with fog at Scilly, as well as on the Norwegian coasts; rain was falling at Valencia (Ireland), and also at Brussels and Stockholm.
Showers fell yesterday in several parts of Gt. Britain, and thunder was heard at Yarmouth in the afternoon.

SEA

Slight or smooth on all coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Another depression is approaching the Irish coasts, and rain is likely to set in shortly at most of our W^rn. stations. The unsettled weather will probably spread later over a considerable part of Gt. Britain.

FORECASTS

For the 24 hours ending at NOON on 2^nd. JULY 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W^ly. to S^ly. winds, light or moderate; fair at first, some rain later.	6 SCOTLAND WEST	S^ly. and SW^ly. winds, moderate or fresh, cloudy, unsettled, some rain
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	W^ly. to SW^ly. winds, moderate, fine at first, some rain later.	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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.90	56	52	WNW	2	r	1
Sumburgh Head	29.94	55	53	WSW	3	c	2
Stornoway ...	30.00	57	53	WNW	4	c	4
Aberdeen ...	30.04	60	52	NW	2	cf	2
Shields	30.08	54	54	NE	1	md	2
Ardrossan	30.11	62	59	W	3	o	2
Malin Head ...	30.12	58	57	WNW	4	o	2
Belmullet	30.24	58	54	W	3	o	*
Holyhead	30.16	57	54	N	2	o	1
Valencia	30.25	60	54	WNW	2	c	2
Scilly	30.23	61	60	WNW	3	m	2
Jersey	30.23	61	60	WSW	4	o	3
Hurst Castle ...	30.14	64	61	SW	4	cm	2
Dungeness ...	30.18	60	59	SW	4	o	3
North Foreland	30.13	64	60	SW	3	o	2
London (Westminster)	30.09	72	66	WSW	2	o	*
Yarmouth ...	30.05	65	62	WSW	3	cp	3
Rochefort ...	30.26	73	70	NW	3	bc	*

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

Weather in morning cloudy or dull over the United Kingdom generally, with fog or mist on several parts of our W^rn and S^rn coasts, and slight rain at some of the English stations. Fine over the greater part of the Continent, but cloudy or foggy at many of the Scandinavian stations, with rain at Karlstad. Showers very general later in the E. and SE of England and the neighbouring parts of the Continent, with thunder at Spurn Hd; steady rain falling in the W. of Norway.

Temperature fallen decidedly in the N. of our Islands and also in Sweden; changed irregularly elsewhere. Morning readings highest 85° at Patras, 82° at Athens, 80° at Hermanstadt, and 79° at Malta; above 70° over S E^rn Europe generally, and above 65° even at some of the N^rn stations in Russia and Scandinavia. Lowest (1) 50° at Limoges; (2) 53° at Sumburgh Hd, and 54° at Wick, Malin Hd and Donaghadee; (3) 53° at Copenhagen, and 54° at Haparanda and Hernösand. Rising during day to 70° and upwards in many parts of England, France and Germany, and to 81° at Perpignan; reaching 86° at Lisbon.

Wind light to moderate from the NW^rd in the west and north of our Islands and from the W or SW over the greater part of England, France, the Netherlands, Denmark, Germany and Austria, S^ly in Sweden; variable in Norway. Strong from the NE^rd in Greece, with a gale at Athens; variable over Italy and the Spanish peninsula. Subsequently veering to the NW^rd in the west of France; no important change occurring elsewhere.

Barometer highest 30.2 ins. to 30.3 ins. and upwards in an anticyclone extending from the Atlantic over the Bay of Biscay, France and S. Germany; 30.1 ins. to 30.2 ins. in another system over Russia. Lowest 29.8 ins. and less in a shallow depression off the W. of Norway, 29.9 ins. and less in a small disturbance over Poland. No important change later but shallow secondary depressions moving E^rds across 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France: at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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„ Weekly „ „ „ £1 10 0 „

BRITISH ISLANDS. FRANCE & BELGIUM. GERMANY & HOLLAND. SCANDINAVIA. PENINSULA.

DAILY WEATHER REPORT

for 8 a.m. on Saturday 2nd July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.68	60	2	0	0	29.67	— ·17	65	59	+ 1	2	0	c	#	0	#	73	52	0·20
	Hernösand ...	29.76	59	S	4	c	29.71	— ·09	62	56	+ 2	N	2	0	#	c	#	70	52	—
	Stockholm ...	29.82	61	S	2	0	29.78	— ·05	59	56	0	SW	2	0	#	0	#	70	55	0·12
	Wisby	29.89	59	SW	4	0	29.88	— ·06	56	53	— 4	W	8	c	#	0	#	70	54	—
	Karlstad ...	29.80	58	SSW	2	0	29.77	— ·07	58	56	— 1	WSW	4	0	#	0	#	#	#	—
	Bodö	29.85	55	2	0	0	29.86	+ ·02	53	50	— 3	2	0	c	0	0	#	63	50	—
	Christiansund ...	29.92	57	WNW	2	0	29.84	— ·10	57	53	+ 2	ESE	1	bc	1	0	#	57	54	—
	Skudesnaes ...	29.99	55	WNW	4	0	29.89	— ·08	55	52	— 1	W	2	0	1	0	#	59	48	#
	Færder (Christiania Fjord)	29.80	62	SSW	2	c	29.78	— ·02	58	54	0	NNE	3	0	2	c	#	62	57	—
	Skagen (The Scaw)	29.85	56	W	4	c	29.84	·00	56	53	— 1	W	4	bc	0	c	#	63	54	—
	Fanö	30.06	54	W	4	b	29.96	— ·05	56	52	+ 1	W	3	c	#	b	#	61	54	—
	Sumburgh Head	29.90	54	W	3	0	29.72	— ·22	53	50	0	SSW	2	c	4	0	#	57	48	—
	Stornoway ...	29.92	57	W	4	0	29.75	— ·24	55	50	0	W	4	c	4	0	0·9	58	47	0·02
	Wick	29.91	58	SE	3	c	29.76	— ·28	52	50	— 5	W	2	0	0	c	#	62	49	—
	Nairn	29.97	59	W	3	c	29.80	— ·24	53	51	— 5	W	2	r	2	c	#	65	46	0·01
	Aberdeen ...	29.97	57	S	1	og	29.83	— ·23	60	52	+ 1	SW	3	c	2	bc, o, g, p	4·6	63	52	0·07
British Islands.	Leith	30·01	59	W	1	0	29.91	— ·19	56	51	— 1	WSW	4	b	#	0	#	63	50	—
	Shields	30·06	58	W	3	0	29.96	— ·16	53	50	— 6	WSW	3	c	2	0, c	#	62	47	—
	Spurn Head ...	30·09	58	SSE	4	0	29.97	— ·18	59	55	+ 1	NNW	3	b	3	c, o, r	#	64	55	0·38
	York	30·10	62	WNW	1	0	30·00	— ·16	58	53	0	WNW	1	b	#	0, c	3·2	65	49	0·11
	Loughborough ...	30·10	64	S	2	0	30·02	— ·20	61	57	+ 6	NW	2	bcw	#	c, or, bc	#	70	54	0·43
	Ardrossan ...	30·03	57	SSW	3	0	29.94	— ·19	58	55	+ 3	WSW	5	b	4	0	#	58	53	—
	Malin Head ...	30·05	56	NW	3	c	29.96	— ·15	56	54	0	W	5	bcw	3	0, c	#	59	53	—
	Belmullet ...	30·09	58	WNW	1	b	30·10	— ·06	57	53	— 1	W	4	0	#	0, b	#	63	53	—
	Donaghadee ...	30·06	57	SW	3	c	30·03	— ·15	58	54	+ 2	NW	5	b	3	c	#	61	47	—
	Liverpool (Bidston)	30·09	57	NW	1	r	30·06	— ·15	56	53	— 1	W	4	c	3	c, r	#	62	51	0·35
	Holyhead ...	30·08	53	SW	1	rqm	30·11	— ·10	60	56	0	W	3	b	2	o, rmg	#	61	49	0·27
	Parsonstown ...	30·03	53	SE	1	r	30·14	·00	58	54	+ 1	W	1	bc	#	or, bc	1·5	60	46	0·62
	Valencia ...	30·05	59	NW	2	c	30·21	+ ·04	57	53	0	W	3	0	3	rm, c	1·6	61	52	0·34
	Roche's Point ..	30·03	59	WSW	4	r	30·19	— ·04	58	54	+ 3	NW	2	b	2	r	#	62	52	0·02
	Pembroke (St. Ann's Hd.)	30·08	59	W	4	f	30·13	— ·10	56	54	— 2	NNW	4	b	4	f	3·5	61	54	0·25
	Scilly	30·15	60	SSW	4	m	30·17	— ·09	59	57	0	NNW	4	c	3	f, m	0·0	64	56	0·03
	Prawle Point ...	30·13	57	WSW	3	f	30·09	— ·20	61	59	+ 4	N	3	bc	3	rf	#	61	56	0·07
	Jersey (St. Aubin's)	30·26	62	W	3	og	30·10	— ·23	60	60	0	WSW	4	ow	3	c, dg, om	#	67	58	0·07
	Hurst Castle ...	30·19	60	SW	3	om	30·04	— ·23	62	60	— 1	NW	3	c	2	bc, om	#	66	58	0·06
	Dungeness ...	30·16	60	WSW	4	c	29.96	— ·25	60	60	— 1	WSW	4	op	3	c	#	68	57	0·05
	North Foreland	30·18	61	SE	2	c	29.95	— ·25	60	59	+ 3	W	4	r	2	c	#	66	56	0·10
	London (Brixton) ...	30·14	57	SSW	2	0	30·00	— ·24	60	57	0	NW	3	bc	#	c, o, r	7·6†	71	58	0·15
	Oxford	30·10	60	S	2	r	30·04	— ·21	57	54	— 1	NNW	2	c	#	bc, o, r	#	70	55	0·22
	Cambridge ...	30·12	66	2	0	0	29.99	— ·23	60	58	0	NNW	3	b	#	c, o r	7·4	69	55	0·47
	Yarmouth ...	30·15	60	SE	2	bc	29.90	— ·24	57	55	— 1	NW	5	c	4	bc, r	#	64	55	0·48
Germany & Holland.	Cuxhaven ...	30·11	59	NNW	3	b	29.99	— ·07	56	56	— 1	SW	1	0	#	b	#	61	54	—
	Berlin	30·09	60	NW	3	r	30·08	— ·03	59	56	— 3	SE	3	0	#	r	#	70	53	0·08
	Wiesbaden ...	*	*	*	*	*	30·11	— ·07	61	59	+ 1	NW	2	0	#	*	#	72	58	0·24
	Munich	30·26	62	SW	3	0	30·19	— ·13	60	58	— 1	W	4	bc	#	0	#	72	56	0·16
	The Helder ...	30·12	59	NNW	1	bc	29.93	— ·18	55	54	— 4	S	1	r	1	bc	#	64	54	0·39
Belgium.	Brussels ...	*	*	*	*	*	30·02	— ·16	56	54	— 2	SSW	3	r	#	bc	#	66	51	0·04
	Cape Gris Nez ...	?	61	W	4	b	?	?	57	56	— 1	W	4	r	4	b	#	64	54	0·16
	Paris	30·23	66	W	2	bc	30·10	— ·17	63	60	+ 2	SW	3	c	#	bc	#	69	55	—
	Brest	30·28	59	SW	3	f	30·19	— ·15	55	?	— 2	WNW	2	0	2	f	#	64	54	—
	Lorient	30·30	62	W	3	bc	30·17	— ·17	59	58	0	W	4	0	4	bc	#	68	57	—
France &	Rochefort ...	30·28	66	NW	4	bc	30·21	— ·17	62	62	— 1	WNW	3	0	#	bc	#	72	59	—
	Belfort	30·21	61	SW	2	0	30·14	— ·12	59	57	— 1	2	0	b	#	0	#	71	54	0·08
	Lyons ...	30·23	70	N	1	c	30·19	— ·11	60	?	— 6	E	1	c	#	c	#	76	58	0·24
	Nice	30·13	73	SW	1	bc	30·08	— ·10	70	60	+ 1	2	0	b	0	bc	#	79	61	—
	Perpignan ...	30·20	80	NW	2	b	30·19	— ·11	73	65	+ 2	2	0	b	#	b	#	82	62	—
	Biarritz ...	30·25	68	N	3	b	30·24	— ·11	61	61	— 3	2	0	r	2	b	#	70	61	—
Peninsula.	Corunna ...																#			
	Lisbon	30·11	79	N	5	b	30·12	— ·05	76	64	0	NNE	2	b	#	b	#	91	70	—
	Azores (P. Delgada)	30·36	65	NE	4	bc	30·32	— ·03	66	63	0	NE	4	c	2	bc	#	72	63	—

For Explanation of Columns, see bottom of last page. † The corresponding value in yesterday's report should have been 2·1

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 1·6 hrs;

WEATHER CHARTS

FOR Saturday, 2nd July, 1898

BAROMETER, WIND AND SEA.

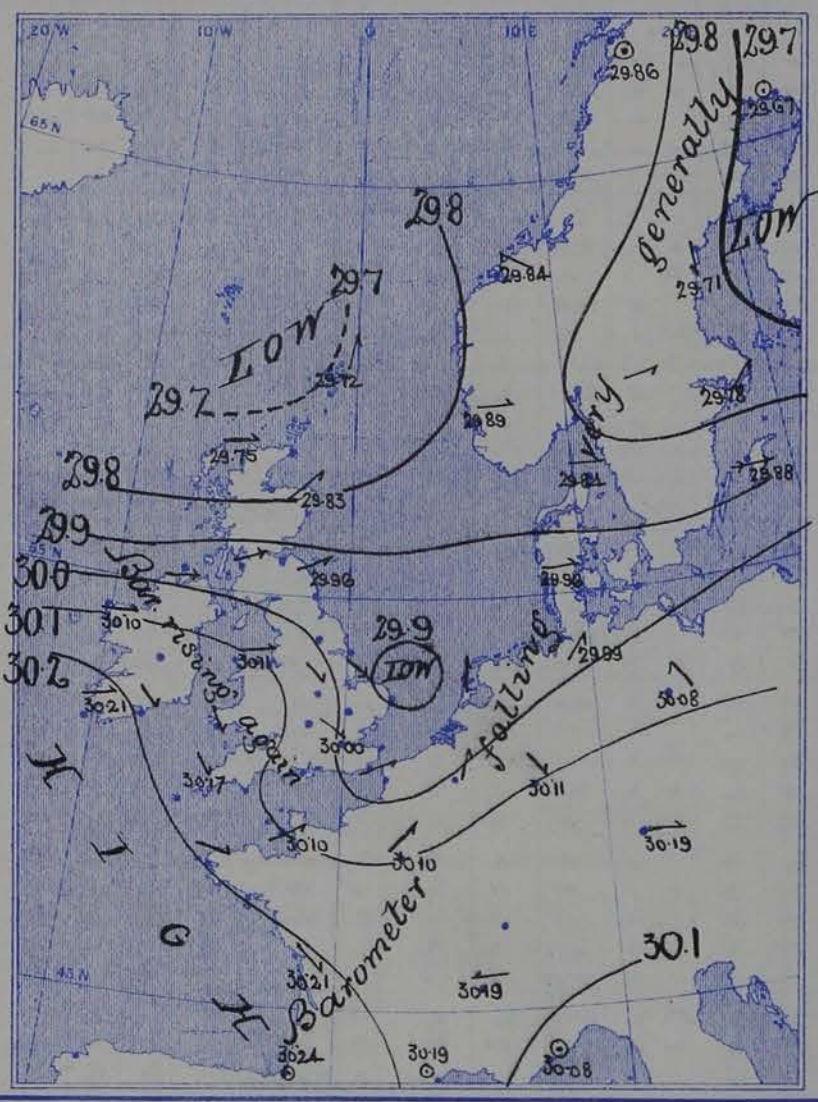
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟩⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ; High

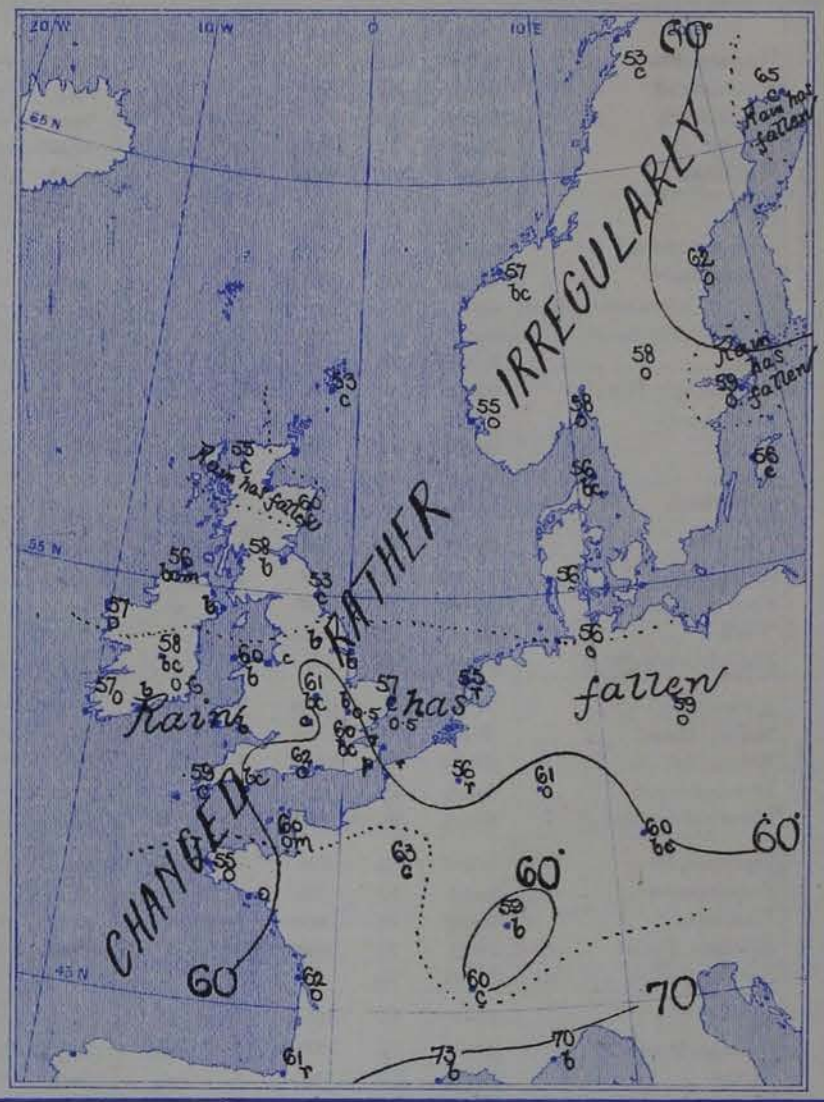


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·2 ins. and upwards in an anticyclone extending from the Atlantic over the SW. of Ireland, the Bay of Biscay and the SW. of France.
Lowest 29·7 ins. and less in two depressions,—one lying off the N. of Scotland and the other over the Gulf of Bothnia, 29·9 ins. and less in a small secondary disturbance off the Norfolk coast.
Gradients slight. Barometer rising over the S^W^ parts of our Islands, but falling elsewhere.

TEMPERATURE

Highest (1) 76° at Lisbon, 73° at Perpignan, and 70° at Nice; (2) 65° at Haparanda and 62° at Hernösand; (3) 62° at Hurst Castle, and 61° at Loughborough and Prawle Point.
Lowest 52° at Wick, 53° at Dunburgh Hd., Nairn and Shields, and also at Bodö, and 55° at Stornoway, Skudenaes and the Helder.
During yesterday the thermometer rose to 70° at Loughborough and Oxford and to 71° in London. On our eastern N. and NW. coasts it did not reach 60°.

WIND

Light to fresh from the W^wd.^ over Ireland and the northern parts of Gt. Britain, but from the NW^wd.^ or N^wd.^ over the eastern, central and southern parts of England.
Light from the S^wd.^ or SW^wd.^ over the Netherlands and the northeast of France, variable in Germany; W^ly.^ in Denmark and the south of Scandinavia.
Calm in the north of Scandinavia, and also in the south of France.

WEATHER

Fine over the greater part of the United Kingdom, but rainy in the extreme southeast of England and also over the Netherlands.
Cloudy over the W^rn.^ parts of the Continent generally, with rain at Biarritz, but fine in the S. of France.
Since yesterday morning rain has fallen over the whole of England, the S. of Ireland, and the neighbouring parts of the Continent, the largest amounts being 0·6 in. at Parsonstown, and 0·5 in. at Cambridge and Yarmouth. Showers have fallen in the N. of Scotland. Solar halos were seen yesterday at Spurn Hd. and Oxford.

SEA

Moderate off the N. of Scotland, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Since yesterday morning a new depression has appeared off the N. of Scotland, while a small secondary system has passed quickly E^wds.^ across Ireland and England. The barometer is now rising again in most parts of Ireland and England, but the wind is backing to the W. so that fresh disturbances are probably approaching.

FORECASTS

For the 24 hours ending at NOON on 3^RD^ JULY 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W^ly.^ to SW^ly.^ winds, light or moderate, fair at first, some rain later.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	Same as No. 5.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	NW^ly.^ to W^ly.^ or SW^ly.^ winds, moderate; fair at first, then cloudy again, with some rain.
6	SCOTLAND WEST	Same as Nos. 0 and 1.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as No. 5.
9	IRELAND NORTH	W^ly.^ to SW^ly.^ or S^ly.^ winds, cloudy, unsettled, some rain.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·03	58	52	WNW	4	c	2
Sumburgh Head	29·94	55	53	W	3	0	4
Stornoway	29·95	58	50	WSW	4	0	4
Aberdeen ...	30·02	62	53	S	3	bc	2
Shields	30·11	60	55	SW	2	0	2
Ardrossan	30·09	57	56	SSW	3	0	2
Malin Head ...	30·08	57	54	W	3	0	2
Belmullet	30·09	58	53	SSW	1	0	*
Holyhead	30·14	58	54	SSW	2	0	1
Valencia	30·06	61	60	SW	4	rw	4
Scilly	30·22	62	62	SW	3	f	3
Jersey	30·30	65	60	SW	3	c	3
Hurst Castle ...	30·25	65	62	SW	3	bc	2
Dungeness ...	30·20	65	60	WSW	4	c	3
North Foreland	30·16	60	57	WSW	4	c	3
London (Westminster)	30·21	69	60	WSW	2	c	*
Yarmouth ...	30·16	63	56	N	3	bc	3
Rochefort ...	30·39	70	67	NW	4	bc	*

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

Weather in morning fine over the E^rn and central parts of Gt. Britain, and also over the central and S^rn parts of the Continent generally. Cloudy or dull in the W. of our Islands, with fog at Scilly and rain at Valencia (Ireland); dull also over the greater part of N^rn Europe, with fog on the Norwegian coasts, and rain at Stockholm and Copenhagen. Steady rain falling later over England, the S. of Ireland and the neighbouring parts of the Continent and showers in the N. of Scotland. Solar halos seen at Oxford and Spurn Hd.

Temperature risen in France and Spain, fallen in Austria, changed rather irregularly elsewhere. Morning readings highest 84° at Athens, 80° at Hermanstadt, 79° at Moscow, and 78° at Patras; above 70° in many parts of S^rn and E^rn Europe, and above 60° over the greater part of the Continent, and also in the extreme S. of England. Lowest 53° at Sumburgh Hd, and 55° at Christiansund, Fair, Stornoway, Ardrossan, Loughborough and Rockes Point. Rising during day to 70° or slightly above it at some of the inland English stations. Exceeding 75° in the S. of France, and reaching 82° at Perpignan; touching 91° at Lisbon.

Wind light to moderate from the W^rd or NW^rd over the eastern and central parts of Gt. Britain, and also over France and the eastern shores of the North Sea, SW. 2/4 over Germany and the Baltic, S. 2/4 over the Gulf of Finland; calm in the N. of Scandinavia. SW. 3/4 on most parts of our western coasts, and SE. 2/4 in the south of Ireland. Light from the N^rd over Italy and the Adriatic; E. 3/4 over the Spanish peninsula. Subsequently backing to the SW^rd over England, but veering to the NW^rd in the west of Ireland.

Barometer highest 30·3 ins. and upwards over France and the Bay of Biscay; 30·1 ins. and upwards in an anticyclone lying over the greater part of central and S^rn Europe and embracing the whole of England and Ireland. Lowest 29·7 ins. and less in a depression over Finland, 30·0 ins. and less in a shallow system over Greece and Asia Minor. New depression appearing later off the N. of Scotland and small secondary system advancing E^rd rather quickly 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Sunday 3rd July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.75	58	SW	2	o	29.76	+.09	58	55	— 7	S	2	o	*	o	*	70	55	—
	Hernösand ...	29.74	60	Z	o	c	29.70	—.01	59	51	— 3	NE	2	o	*	c	*	68	55	—
	Stockholm ...	29.79	61	SW	2	o	29.75	—.03	58	55	— 1	SW	4	r	*	o	*	70	54	—
	Wisby	29.86	55	SW	4	c	29.80	—.08	55	54	— 1	SSW	4	o	*	c	*	64	54	0.08
	Karlstad ...	29.74	58	S	4	c	29.66	—.11	56	55	— 2	S	4	c	*	c	*	*	*	—
	Bodö	29.78	51	WSW	2	r	29.70	—.16	50	48	— 3	NW	2	o	1	r	*	54	50	0.35
	Christiansund ...	29.76	55	N	1	c	29.61	—.23	56	55	— 1	NE	2	bc	1	c	*	61	50	0.20
	Skudesnaes ...	29.71	55	WNW	4	c	29.62	—.27	54	49	— 1	NW	4	c	2	c	*	61	48	*
	Færder (Christiania Fjord)	29.71	62	SW	4	bc	29.62	—.16	58	52	0	SW	5	c	3	bc	*	63	55	—
	Skagen (The Scaw)	29.78	55	W	2	c	29.69	—.15	57	52	+ 1	SW	2	c	0	c	*	63	50	—
	Fanö	29.89	55	W	4	b	29.72	—.24	52	51	— 4	SW	4	c	*	b	*	63	52	0.08
	Sumburgh Head	29.65	53	W	3	b	29.65	—.07	51	49	— 2	NW	2	bc	3	b	*	55	42	0.84
	Stornoway ...	29.70	55	W	4	c	29.80	+.05	53	50	— 2	WNW	4	o	4	c	4.0	56	45	0.10
	Wick	29.72	46	NW	3	c	29.76	.00	52	49	0	NW	2	bc	0	p,c	*	59	39	0.18
	Nairn	29.74	54	W	2	c	29.80	.00	53	50	0	W	2	o	2	c	*	63	45	0.08
	Aberdeen ...	29.75	54	NE	3	chrp	29.77	—.06	54	49	— 6	NW	5	bcq	2	chrp	6.7	66	45	0.08
British Islands.	Leith	29.82	59	WSW	3	c	29.83	—.08	60	52	+ 4	W	2	c	*	c	*	65	49	0.09
	Shields	29.86	57	WSW	3	op	29.82	—.14	55	49	+ 2	NW	4	c	2	bc,op	*	67	47	0.02
	Spurn Head ...	29.94	61	W	4	bc	29.88	—.14	56	51	— 3	W	6	c	3	bc,pq	*	65	51	0.03
	York	29.96	62	W	3	c	29.87	—.13	57	51	— 1	W	3	c	*	o,p	12.2	67	48	0.01
	Loughborough ...	30.00	68	S	3	c	29.96	—.06	59	50	— 4	WNW	4	cqn	*	bcq,cq	*	70	51	—
	Ardrossan ...	29.87	54	W	4	cp	29.87	—.07	54	52	— 4	W	4	op	3	bc,cp	*	60	49	0.13
	Malin Head ...	29.91	55	W	6	bcpq	29.96	.00	54	52	— 2	NW	5	om	3	bcpq	*	57	51	0.03
	Belmullet ...	30.07	57	WNW	3	o	30.09	—.01	56	51	— 1	NNW	3	o	*	o	*	60	50	—
	Donaghadee ...	29.95	61	WSW	6	bc	29.97	—.06	58	52	0	WNW	6	b	4	bc	*	65	49	0.01
	Liverpool (Bidston)	30.01	60	WSW	4	c	29.96	—.10	55	51	— 1	W	6	c	6	c	*	64	52	—
	Holyhead ...	30.02	58	SW	2	c	30.01	—.10	58	54	— 2	W	5	b	4	bc,c	*	63	50	—
	Parsonstown ...	30.07	59	W	2	c	30.09	—.05	56	51	— 3	NW	2	c	*	c	8.7	62	46	—
	Valencia ...	30.18	58	W	3	c	30.11	—.10	57	52	0	W	0	b	2	o,c	4.3	60	53	—
	Roche's Point ..	30.13	63	NNW	3	bc	30.12	—.07	58	53	0	NW	1	bc	1	bc	*	67	50	—
	Pembroke (St. Ann's Hd.)	30.10	57	WSW	5	b	30.08	—.05	55	51	— 1	NNW	4	b	3	b	13.9	59	53	—
	Scilly	30.19	58	WSW	4	c	30.13	—.04	60	57	+ 1	WNW	2	c	2	c	5.6	64	55	—
	Prawle Point ...	30.14	61	WNW	4	bc	30.11	+.02	59	56	— 2	WSW	3	bc	3	bc	*	70	52	—
	Jersey (St. Anbin's)	30.17	63	W	4	bcm	30.14	+.04	59	55	— 1	W	4	c	3	bcm	*	65	53	—
	Hurst Castle ...	30.08	69	W	2	bc	30.06	+.02	60	55	— 2	W	4	c	2	bc	*	72	54	—
	Dungeness ...	30.02	63	WSW	2	c	29.98	+.02	62	57	+ 2	W	4	bc	3	c	*	74	49	—
	North Foreland	30.04	64	S	3	c	30.02	+.07	58	54	— 2	W	4	bc	2	c	*	69	50	—
	London (Brixton) ...	30.04	70	WSW	3	bc	30.00	.00	58	50	— 2	WNW	2	c	*	c,bc	9.8	73	50	—
	Oxford	30.04	60	WSW	2	bc	30.02	—.02	57	50	0	NW	2	b	*	bc	*	71	50	—
	Cambridge ...	30.01	67	W	1	o	29.97	—.02	58	51	— 2	W	3	b	*	bc,o	11.2	70	50	—
	Yarmouth ...	29.98	60	SSE	4	c	29.90	.00	58	50	+ 1	WNW	5	b	3	b/c	*	63	51	—
Germany & Holland.	Cuxhaven ...	29.92	57	W	2	bc	29.78	—.21	54	54	— 2	S	3	b	*	bc	*	61	52	0.08
	Berlin	29.95	62	Z	0	o	29.93	—.15	62	59	+ 3	SW	2	o	*	o	*	72	58	0.12
	Wiesbaden ...	*	*	*	*	*	30.03	—.08	58	55	— 3	SW	1	bc	*	*	*	66	50	0.16
	Munich... ..	30.13	60	Z	0	bc	30.10	—.09	62	59	+ 3	W	3	c	*	bc	*	68	55	0.20
	The Helder ...	29.97	58	NNW	1	b	29.83	—.10	57	53	+ 2	W	4	bc	2	b	*	61	54	0.04
Belgium.	Brussels ...	*	*	*	*	*	29.98	—.04	59	55	— 3	SW	4	bc	*	b	*	66	50	0.04
	Cape Gris Nez...	?	62	SW	2	m	?	?	56	54	— 3	WNW	4	b	4	m	*	68	54	0.20
	Paris	30.10	66	NW	3	b	30.11	+.01	52	50	— 8	NW	2	o	*	b	*	73	50	0.08
	Brest	30.12	59	NW	2	b	30.18	—.01	57	53	+ 2	NW	2	o	2	b	*	66	52	—
	Lorient... ...	30.17	64	WNW	4	bc	30.23	+.06	58	52	— 4	NNW	3	o	2	bc	*	70	52	—
France &	Rochefort ...	30.24	64	NW	4	c	30.23	+.02	63	52	+ 1	NW	2	o	*	c	*	73	59	—
	Belfort	30.06	66	WSW	3	o	30.07	—.07	59	55	0	W	1	r	*	o	*	69	54	—
	Lyons	30.11	69	NE	1	o	30.09	—.10	63	59	+ 3	NNW	2	bc	*	o	*	79	57	0.04
	Nice	30.01	72	WNW	1	b	29.95	—.13	69	62	— 1	Z	0	c	0	b	*	84	63	—
	Perpignan ...	30.10	77	NW	3	bc	30.10	—.09	71	63	— 2	W	2	o	*	bc	*	83	65	—
	Biarritz ...	30.21	66	NW	3	o	30.16	—.08	63	61	+ 2	NNW	3	r	2	o	*	70	61	0.04
Peninsula.	Corunna ...																*			
	Lisbon	30.01	78	NW	5	b	29.99	—.13	75	65	— 1	NNE	2	b	*	b	*	93	66	—
	Azores (P. Delgada)	30.29	66	NE	4	o	30.23	—.09	67	62	+ 1	ENE	3	o	2	o	*	72	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 13.0 hrs;

WEATHER CHARTS

FOR Sunday, 3rd July, 1898

BAROMETER, WIND AND SEA.

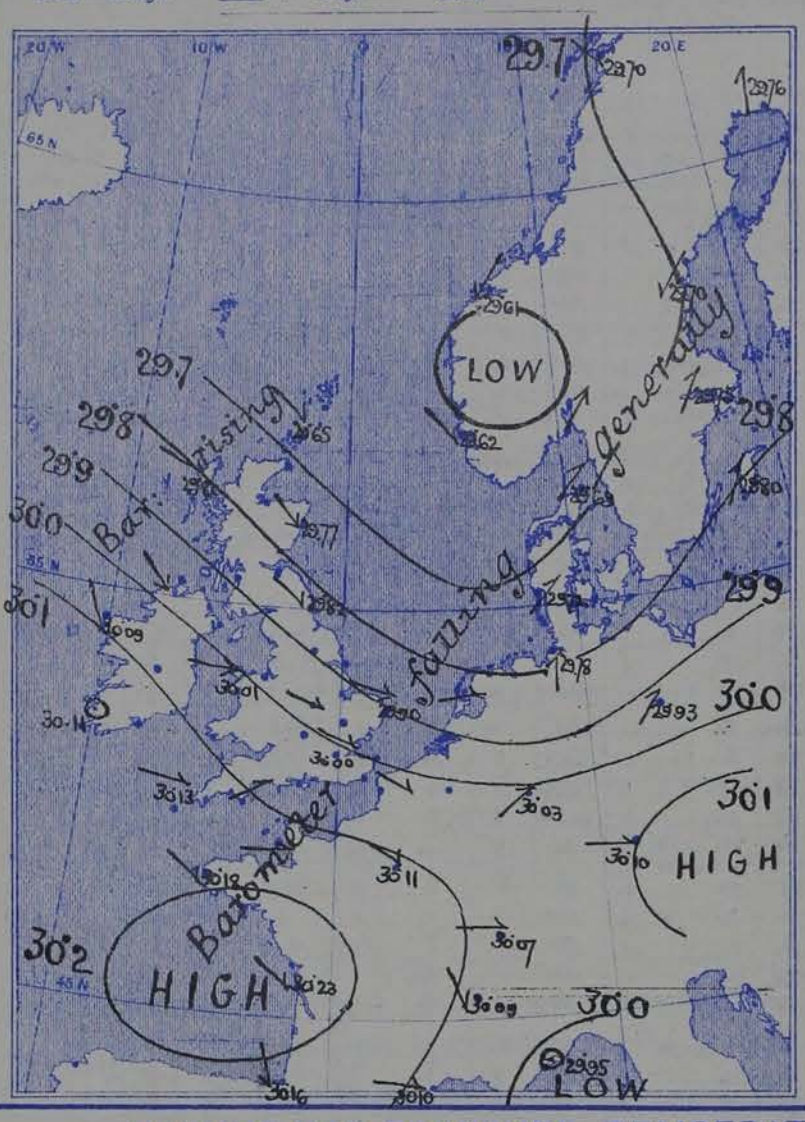
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟩⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ≡ ; *High* ▬

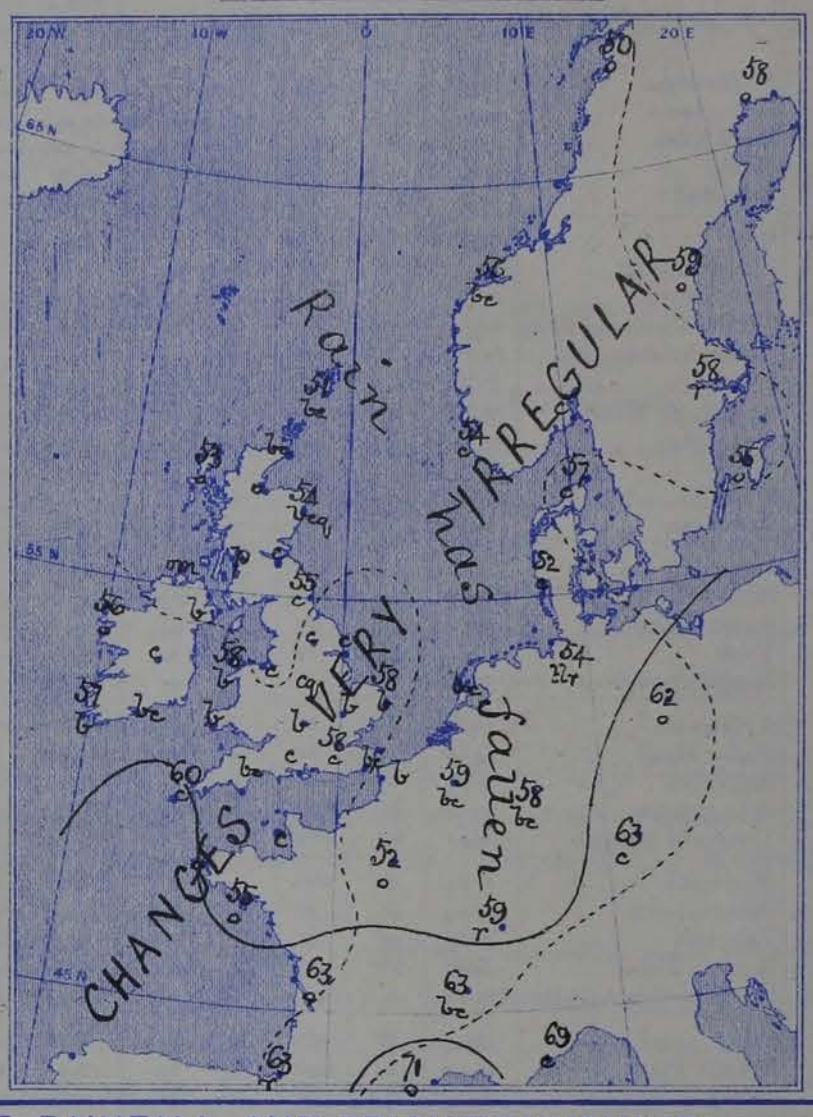


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 inches in an anticyclone lying over the Bay of Biscay and the west of France.
Lowest, 29·6 inches and less, in a depression over the south of Norway.
Gradients slight. Barometer rising in the north of our Islands, but falling in nearly all other parts of our area.

TEMPERATURE

Highest, 75° at Lisbon, 71° at Perpignan, 69° at Nice, 63° at Biarritz, Lyons, and Munich; and 62° at Dunkirk.
Lowest, (1) 50° at Baden, 51° at Spurnhead, and 52° at Wick; (2) 52° at Yarmouth and Paris.
During yesterday the thermometer rose to between 65° and 70° in many parts of the United Kingdom, to 73° in London and to 74° at Dungeness.

WIND

W. or NW. over our Islands and France; light or moderate in force generally, but strong in some of the more exposed parts of our East and northeast coasts.
Light to moderate from the SW. over the Netherlands, Germany, Denmark, and the south of Sweden; NE. over the central parts of Scandinavia.

WEATHER

Fine over the United Kingdom generally, but dull on our extreme northeast coasts, with passing showers at Aberdeen.
Cloudy or dull at most of the Continental stations, with rain at Stockholm, Belfort, and Biarritz, and a thunderstorm at Cuxhaven. Fine in the Netherlands and the west of Norway.
Showers fell yesterday over the northern parts of our Islands generally, as well as at many of the Continental stations. A Solar halo was seen at Oxford.

SEA

Moderate to smooth generally, but rough at Liverpool and rather rough at Spurn Head.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 4th JULY 1898

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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.73	61	55	S	2	b	4
Sumburgh Head	29.66	54	51	W	2	c	4
Stornoway	29.75	53	49	W	4	c	4
Aberdeen	29.78	62	52	W	3	bc	2
Shields	29.92	64	56	W	4	bc	2
Ardrossan	29.93	57	55	WSW	5	bc	4
Malin Head ...	29.94	52	52	W	5	r	4
Belmullet	30.09	59	53	W	3	bc	*
Holyhead	30.08	61	50	SW	3	bc	2
Valencia	30.21	58	55	W	3	o	4
Scilly	30.12	62	59	NW	3	c	2
Jersey	30.17	64	60	WNW	4	bc	3
Hurst Castle ...	30.08	70	65	SW	2	bcm	1
Dungeness ...	30.03	72	64	NW	1	c	1
North Foreland	30.03	67	60	WNW	4	b	3
London (Westminster)	30.04	73	64	SW	2	bc	*
Yarmouth ...	29.98	63	58	NNE	4	b	4
Rochefort ...	30.20	73	70	NW	3	c	*

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

Weather in morning fine over the greater part of the United Kingdom, but raining in the extreme southeast of England and also in the Netherlands. Fine over southern Europe generally, but cloudy in most other parts of the Continent, with rain at Breslau and also at Biarritz. Showers falling later over the northern parts of our Islands generally, and steady rain in Germany and also in the west of Norway.

Temperature changed rather irregularly. Morning readings highest 85° at Oporto, 81° at Athens, 77° at Trieste and Brindisi, and 75° at Malta, above 70° in most parts of southern and eastern Europe. Lowest 52° at Wick, 53° at Bodo, Lerwick Head, Nairn and Shields, and 54° at Munster. Rising during day to between 65° and 70° in many parts of the United Kingdom, to 73° in London, and to 74° at Dungeness. Exceeding 75° over the southern parts of France, and reaching 83° at Perpignan; touching 93° at Hinton.

Wind light to fresh from the W. over Ireland and the northern parts of Great Britain, but from the NW. or NW. over the eastern, central, and southern parts of England; SW.[3] or S.[3] over the Netherlands and the northeast of France. W.[3] or SW.[3] over Denmark, the Baltic, northern Russia, and the south of Scandinavia, with a gale at Wick; variable over the northern parts of Scandinavia. N.[3] or NE.[3] over the greater part of southern and eastern Europe, but calm in the south of France. Subsequently backing to the W. or SW. over England; no important change elsewhere.

Barometer highest 30.2 in. and upwards in an anticyclone extending from the Atlantic over the southwest of Ireland, the Bay of Biscay, the Spanish Peninsula and the southwest of France. Lowest 29.7 in. and less, in two depressions,—one lying off the north of Scotland and the other over the Gulf of Bothnia; 29.9 in. and less, in a small secondary system off the Norfolk coast. Scotch depression spreading southeastwards later; secondary disturbance moving eastwards and apparently filling 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Monday 4th July 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc	Wind. Force (0 to 12.)	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M.S.L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.81	57	2	0	c	29.72	−.04	60	56	+ 2	S	2	c	*	c	*	66	54	—
	Hernösand ...	29.75	55	S	4	b	29.76	+.06	54	53	− 5	E	6	o	*	b	*	61	48	—
	Stockholm ...	29.76	57	SE	2	b	29.72	−.03	57	51	− 1	SW	4	o	*	b	*	66	55	—
	Wisby	29.78	58	S	4	c	29.85	+.05	55	50	− 0	W	6	b	*	c	*	64	50	0.04
	Karlstad ..	29.66	54	SW	2	r	29.58	−.08	52	50	− 4	SSE	6	r	*	r	*	*	*	0.59
	Bodö	29.71	50	SW	2	r	29.89	+.19				WSW					*			
	Christiansund ...	29.68	58	NE	2	bc	29.82	+.21	56	52	0	NE	3	bc	3	bc	*	61	52	—
	Skudesnaes ...	29.65	54	W	1	b	29.71	+.09	56	53	+ 2	NNW	6	b	2	b	*	56	46	*
	Færder (Christiania Fjord)	29.59	54	ESE	4	r	29.56	−.06	54	50	− 4	NNE	3	c	2	r	*	58	48	0.95
	Skagen (The Scaw)	29.63	51	W	1	o	29.67	−.02	54	50	− 8	W	5	c	1	o	*	57	50	0.32
	Fanö	29.80	53	W	6	c	29.78	+.06	54	50	+ 2	W	6	c	*	c	*	59	50	0.20
	Sumburgh Head	29.71	57	NW	3	c	29.96	+.31	52	48	+ 1	N	4	c	4	c	*	58	47	0.02
	Stornoway ...	29.96	53	NNW	6	cpq	30.14	+.34	51	49	− 2	NNE	3	r	3	rq.o	1.0	53	45	0.05
	Wick	29.87	53	N	4	bc	30.09	+.33	52	49	0	NE	5	bc	2	bc	*	58	47	0.02
	Nairn	29.88	51	W	2	c	30.11	+.31	51	48	− 2	W	2	c	2	c	*	59	47	0.19
	Aberdeen ...	29.83	53	NW	4	bcpq	30.06	+.29	53	48	− 1	NW	4	cpq	4	bcpq	8.3	60	48	0.05
	Leith	29.84	55	WNW	1	r	30.10	+.27	59	52	− 1	WNW	1	c	*	r	*	67	47	0.20
	Shields	29.85	59	W	3	c	30.05	+.23	52	49	− 3	N	3	c	3	c,r	*	63	46	0.12
	Spurn Head ...	29.90	57	NNW	5	c	30.01	+.18	55	52	− 1	NNW	5	cq	4	cv	*	65	50	0.02
	York	29.92	60	W	3	c	30.06	+.19	54	49	− 3	NNW	2	bc	*	c	8.2	63	46	0.01
	Loughborough ...	29.98	60	WNW	4	c	30.09	+.13	56	51	− 1	N	3	cw	*	cq.bc	*	65	46	—
British Islands.	Ardrossan ...	29.92	54	NW	5	b	30.13	+.26	57	53	+ 3	WNW	3	b	2	b	*	59	47	0.01
	Malin Head ...	30.04	54	NNW	6	bc	30.22	+.26	53	50	− 1	NNW	5	c	3	c,bcmp	*	56	50	0.01
	Belmullet ...	30.12	57	NNW	2	b	30.31	+.22	57	52	+ 1	NNE	1	bco	*	b	*	59	42	—
	Donaghadee ...	30.00	57	NW	6	c	30.16	+.19	55	51	− 3	NW	5	b	3	c	*	62	48	—
	Liverpool (Bidston)	29.98	57	W	5	o	30.14	+.18	56	51	+ 1	NNW	2	bc	4	o,p	*	59	51	—
	Holyhead ...	30.03	57	SW	3	c	30.15	+.14	55	52	− 3	N	3	b	2	c	*	66	50	—
	Parsonstown ...	30.05	63	NW	1	bc	30.24	+.25	54	50	− 2	NW	1	bc	*	bc	8.3	63	39	—
	Valencia ...	30.07	59	NW	1	c	30.21	+.10	59	52	+ 2	N	0	b	1	c	4.7	61	49	0.01
	Roche's Point ..	30.06	58	WSW	3	p	30.22	+.10	57	50	− 1	ESE	2	b	2	b,c,p	*	62	47	—
	Pembroke (St. Ann's Hd.)	30.07	59	W	3	bc	30.16	+.08	56	50	+ 1	NE	4	b	3	bc	14.6	59	50	—
	Scilly	30.07	58	S	1	m	30.12	−.01	60	57	0	NE	2	c	1	m	2.0	63	54	—
	Prawle Point ...	30.07	57	WSW	3	c	30.12	+.01	61	55	+ 1	N	2	b	1	c	*	61	48	—
	Jersey (St. Aubin's)	30.11	62	W	3	bc	30.10	−.04	59	55	0	NNE	3	bcm	3	bc,p	*	63	53	0.18
	Hurst Castle ...	30.03	63	WSW	4	c	30.08	+.02	59	54	− 1	NW	3	b	2	c	*	68	49	—
	Dungeness ...	29.99	60	WSW	5	bc	30.01	+.03	57	52	− 5	WNW	4	bc	3	bc	*	67	50	—
	North Foreland	29.99	60	SSE	1	c	30.03	+.03	56	51	− 2	NW	4	bc	2	bc,c	*	66	51	—
	London (Brixton) ...	29.98	66	W	2	bc	30.07	+.07	55	48	− 3	NW	3	c	*	bc,c,o	10.6	70	52	—
	Oxford	30.00	58	WNW	2	bc	30.10	+.08	54	50	− 3	NW	4	ogm	*	bc	*	67	47	—
	Cambridge ...	29.98	63	NW	2	o	30.06	+.09	53	50	− 5	NNW	3	o	*	b,o	11.8	67	48	—
	Yarmouth ...	29.93	63	WNW	4	b	29.97	+.09	56	53	− 2	NW	4	bc	4	b	*	64	49	—
Germany & Holland.	Cuxhaven ...	29.81	56	W	6	bc	29.88	+.10	53	53	− 1	S	3	o	*	r,bc	*	59	50	0.12
	Berlin	29.94	58	2	0	b	30.00	+.07	58	53	− 4	SW	3	b	*	b	*	77	48	0.04
	Wiesbaden ...	*	*	*	*	*	?29.97	−.06	57	54	− 1	?SW	1	c	*	*	*	73	51	—
	Munich... ..	30.10	60	SW	2	bc	30.04	−.06	65	60	+ 2	SE	2	c	*	bc	*	72	51	0.08
	The Helder ...	29.98	57	W	2	bc	29.89	+.06	57	51	0	NW	1	bc	1	bc	*	61	55	—
Belgium.	Brussels ...	*	*	*	*	*	29.97	−.01	53	53	− 6	WSW	1	o	*	o	*	67	48	0.04
	Cape Gris Nez...	?	58	W	3	b	?	?	56	52	0	N	3	bc	3	b	*	61	52	—
	Paris	30.07	65	NW	2	bc	30.06	−.05	54	53	+ 2	SW	2	r	*	bc	*	70	49	0.08
	Brest	30.13	55	SW	2	f	30.08	−.10	55	55	− 2	NE	3	f	3	f	*	66	54	0.04
	Lorient... ...	30.14	60	NNW	4	o	30.12	−.11	59	59	+ 4	NW	4	f	3	o	*	70	54	—
France &	Rochefort ...	30.14	63	NW	4	bc	30.08	−.15	61	60	− 2	NW	3	bc	*	bc	*	70	57	—
	Belfort	30.04	65	WSW	5	b	30.04	−.03	55	53	− 4	W	2	?	*	b	*	72	48	—
	Lyons	30.04	70	NW	2	bc	30.03	−.06	64	56	+ 1	N	1	b	*	b	*	76	53	—
	Nice	29.91	70	2	0	bc	29.90	−.05	69	65	0	2	0	bc	0	bc	*	77	63	—
	Perpignan ...	30.05	75	NW	3	bc	30.05	−.05	71	61	0	NW	2	b	*	b	*	79	62	—
	Biarritz ...	30.13	68	NW	3	b	30.09	−.07	61	59	− 2	E	2	o	2	b	*	72	59	—
Peninsula.	Corunna ...																*			
	Lisbon	29.93	74	NNW	5	b	29.96	−.03	69	61	− 6	N	5	b	*	b	*	88	64	—
	Azores (P. Delgada)	30.20	?	E	4	bc	30.18	−.05	66	65	− 1	E	4	o	3	bc	*	73	64	0.04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 6.9 hrs;

WEATHER CHARTS

FOR Monday, 4th July, 1898

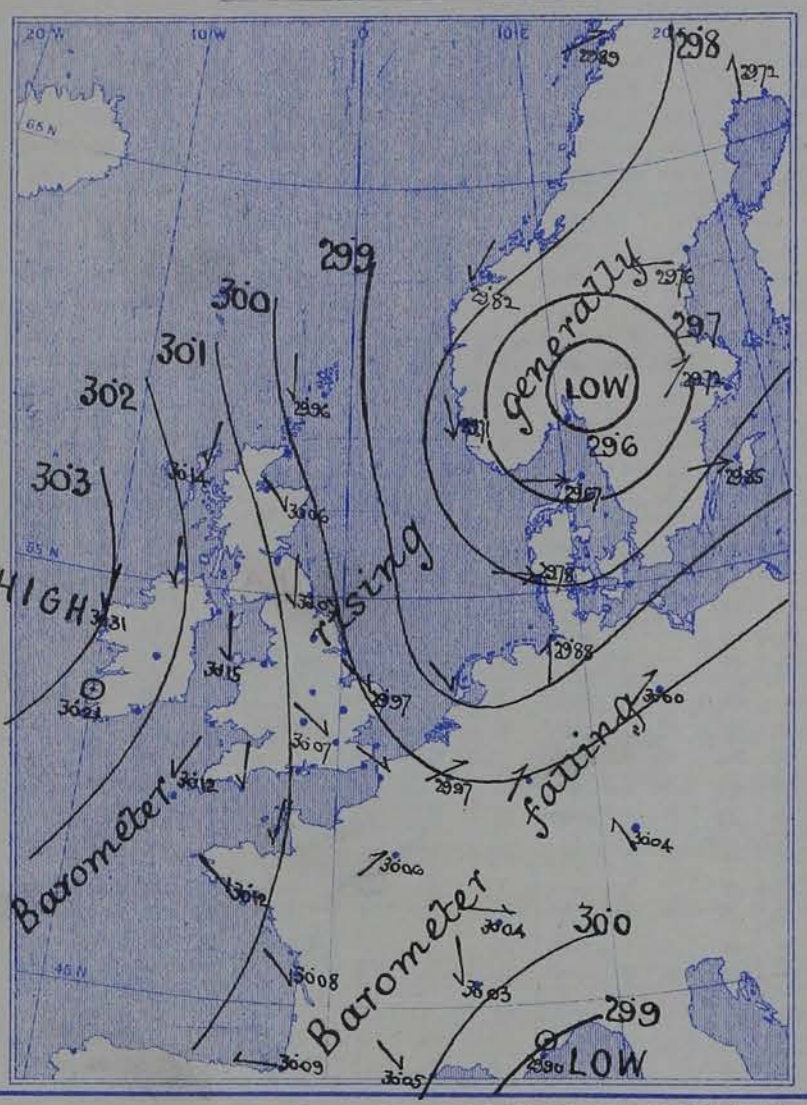
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ⟫⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

SEA—Rough ▤ ; *High* ▦



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·31 ins. at Belmullet; 30·1 ins. upwards in an anticyclone lying over all the more western part of our islands. Lowest 29·6 ins. and less in a depression over the south of Scandinavia. Gradients slight. Barometer rising generally, but falling in France, the Netherlands & South Germany.

TEMPERATURE — Highest (1) 71° at Perpignan, 69° at Nice & Lisbon, and 65° at Munich; (2) 61° at Prawle Point & 60° at Scilly; (3) 60° at Haparanda. Lowest 51° at Stornoway & Nairn, 52° at Karlstad, Lumburgh Head & Shields & 53° at Aberdeen, Malin Head and Cambridge. The maxima registered yesterday were below 60° on our extreme north & northwest coasts & below 65° in many other parts of the United Kingdom. In London, however, the thermometer rose to 70°.

WIND — Light to fresh from the N.wd. (NE. to NW.) over our islands and the north and west of France. E. by S. or NE. by E. over the Central parts of Scandinavia; fresh to strong from the W.ly in Denmark. Light from the S.wd. or SW.wd. in Germany; strong from between S. and W. in the South of Scandinavia.

WEATHER — Fair or fine over Western Europe as a whole, but showery in the north of Scotland. Cloudy or dull in Sweden, with rain at Karlstad; rainy also at Paris, & foggy on the northwest Coasts of France. A little rain fell yesterday over the northern parts of our islands generally, as well as in the Channel Islands, the north of France & the Netherlands, and larger quantities in Denmark & the south of Scandinavia. Solar halos were seen in London & at Oxford.

SEA — Moderate on our east coasts, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone in the west is inclined to spread slowly eastwards, but cool showery weather is likely to continue for a time in our northern and eastern districts.

FORECASTS

For the 24 hours ending at NOON on 5th JULY 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	N.ly winds, moderate or fresh; cool, changeable, some showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	NW. by W. to N. by W. winds, moderate; fair generally, but perhaps local showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	N.ly winds, moderate; fair generally.
7	ENGLAND N.W.	
8	ENGLAND S.W.	N. by W. or NE. by N. winds, light, fair generally.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.64	56	50	WSW	6	c	3
Sumburgh Head							
Stornoway	29.88	51	50	NNW	5	rq	5
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30.00	54	52	NW	6	c	4
Belmullet	30.11	59	51	NNW	1	b	*
Holyhead							
Valencia							
Scilly							
Jersey	30.17	62	57	W	4	bc	3
Hurst Castle ...							
Dungeness ...	30.00	63	60	SW	5	bc	4
North Foreland	30.01	63	54	WNW	3	bc	2
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30.23	68	66	NW	2	c	*

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

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 26TH JUNE to 2ND JULY.

At the commencement of the week barometrical pressure was high both over Russia and the Spanish Peninsula, the weather in the more western countries being influenced by a large depression which had advanced over England from the Northward. The main depression soon moved away to the southeastward and dispersed, and the weather in our islands, which was at first showery & thundery, showed a gradual improvement, especially in the west and north. Over Northern and Central Europe, however, the conditions were affected by a new disturbance which was developed over the southern parts of the Baltic & which afterwards travelled slowly northwards, the passage of the depression being attended by heavy falls of rain in many parts of Germany & Denmark, and later on in the south of Scandinavia. The barometer had in the meantime risen steadily in the west: & by the 28th June an anticyclone had spread from the Atlantic over our islands, France & Spain, the wind over the United Kingdom backing gradually from the N.wd to the W. and SW. Later on the anticyclone moved S.wd while several shallow depressions appeared in our neighbourhood, the larger and more important systems being observed in the far north & their secondaries further south the latter moving Eastward across the United Kingdom & North Sea and producing occasional falls of rain over nearly the whole of Western & Central Europe, with thunder in a few places. At the close of the week these changes were still in progress, but the intervals of fine weather were sufficiently long to enable the thermometer to reach its normal height for the time of year.

Over Southern & Southeastern Europe the weather throughout the week was almost continuously fine & warm, the maximum readings of the thermometer being usually above 80° and in some cases above 90°.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Tuesday 5th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.79	59	S	2	0	29.85	+ .13	56	53	− 4	SSW	2	0	*	0	*	72	55	0.04
	Hernösand ...	29.77	55	S	4	0	29.95	+ .19	56	50	+ 2	W	6	bc	*	0	*	61	46	0.28
	Stockholm ...	29.82	56	SSW	2	b	30.05	+ .33	61	?	+ 4	SW	4	b	*	b	*	64	52	—
	Wisby	30.00	54	S	4	b	30.09	+ .24	58	53	+ 3	WNW	4	bc	*	b	*	61	48	—
	Karlstad ...	29.86	56	SSW	2	b	30.03	+ .45	55	51	+ 3	NW	2	b	*	b	*	*	*	0.12
	Bodö	29.84	54	N	4	b	29.91	+ .02	49	45		NW	4	o	2	b	*	54	45	—
	Christiansund ...	29.95	55	NE	2	c	30.10	+ .28	53	49	− 3	WNW	1	o	3	c	*	57	52	—
	Skudesnaes ...	29.87	56	NNW	1	b	30.07	+ .36	55	50	− 1	NNW	6	b	2	c, b	*	58	46	*
	Færder (Christiania Fjord)	29.82	59	SW	2	bc	30.03	+ .47	56	51	+ 2	NE	2	b	2	bc	*	59	50	—
	Skagen (The Scaw)	29.89	56	2	0	b	30.06	+ .39	57	55	+ 3	N	1	b	0	b	*	68	50	—
	Fanö	29.90	53	WNW	3	c	30.01	+ .23	56	53	+ 2	NW	4	bc	*	c	*	59	52	0.04
	Sumburgh Head	30.10	52	NW	4	bc	30.11	+ .15	50	47	− 2	S	1	o	3	c, bc	*	56	45	—
	Stornoway ...	30.20	57	N	3	bc	30.06	− .08	51	50	0	WSW	5	r	5	c, bc	7.1	57	47	0.15
	Wick	30.21	55	NE	3	bc	30.17	+ .08	52	50	0	SW	2	o	1	bc	*	59	43	—
	Nairn	30.19	56	2	0	c	30.17	+ .06	51	50	0	W	1	r	1	c	*	60	43	0.19
	Aberdeen ...	30.18	55	N	4	bcq	30.18	+ .12	55	49	+ 2	SW	2	og	1	p, bcq	9.2	60	45	0.03
British Islands.	Leith	30.17	60	E	1	0	30.23	+ .13	51	50	− 8	W	1	r	*	0	*	64	47	0.09
	Shields	30.19	54	N	1	c	30.26	+ .21	53	50	+ 1	SW	2	o	3	bc, c	*	58	50	—
	Spurn Head ...	30.17	55	N	4	bc	30.27	+ .26	56	51	+ 1	NW	2	c	4	bc	*	58	51	0.01
	York	30.17	60	NNE	1	c	30.28	+ .22	52	49	− 2	W	1	c	*	c, o	10.1	63	44	—
	Loughborough ...	30.18	63	W	1	c	30.31	+ .22	55	52	− 1	WNW	1	cmr	*	c, o, bcm	*	67	43	—
	Ardrossan ...	30.19	58	WNW	2	b	30.26	+ .13	55	52	− 2	SW	2	o	2	b	*	61	51	—
	Malin Head ...	30.26	55	NNW	3	b	30.25	+ .03	55	53	+ 2	WSW	4	og	2	b	*	56	51	—
	Belmullet ...	30.31	59	NNW	1	b	30.34	+ .08	58	53	+ 1	W	3	o	*	bc, b	*	61	46	—
	Donaghadee ...	30.26	60	NNW	5	b	30.31	+ .15	58	53	+ 3	W	3	bc	2	b	*	62	42	—
	Liverpool (Bidston)	30.22	56	WNW	3	b	30.32	+ .18	54	49	− 2	WNW	3	c	3	b	*	60	50	—
	Holyhead ...	30.25	55	NW	2	b	30.34	+ .19	61	55	+ 6	W	1	b	1	b	*	61	47	—
	Parsonstown ...	30.25	63	2	0	b	30.37	+ .13	59	54	+ 5	NW	1	b	*	b	12.2	65	42	—
	Valencia ...	30.29	61	W	2	b	30.39	+ .18	57	53	− 2	NNW	1	bc	2	b	15.5	64	42	—
	Roche's Point ..	30.27	59	SW	2	b	30.37	+ .15	58	54	+ 1	NNE	1	b	1	b	*	61	48	—
	Pembroke (St. Ann's Hd.)	30.24	58	NE	3	b	? 30.35	+ .19	59	56	+ 3	N	1	b	2	b	15.2	59	47	—
	Scilly	30.24	64	NNE	3	c	30.33	+ .21	60	56	0	NE	3	bc	1	bc, c	15.0	66	54	—
	Prawle Point ...	30.22	58	WSW	1	b	30.34	+ .22	58	53	− 3	SSW	1	b	1	b	*	62	50	—
	Jersey (St. Aubin's)	30.20	62	NNW	3	b	30.35	+ .25	64	56	+ 5	SE	1	bm	1	b, bm	*	64	51	—
	Hurst Castle ...	30.19	63	WSW	2	cmr	30.30	+ .22	63	59	+ 4	2	0	bm	0	cm	*	69	52	—
	Dungeness ...	30.16	60	ENE	2	c	30.30	+ .29	60	55	+ 3	NNW	1	c	1	c	*	66	44	—
	North Foreland	30.19	57	NNE	2	bc	30.31	+ .28	59	53	+ 3	W	1	c	1	o, bc	*	62	47	—
	London (Brixton) ...	30.19	64	NNW	2	bc	30.31	+ .24	59	54	+ 4	WSW	1	c	*	bc	9.4	68	47	—
	Oxford	30.21	58	N	1	c	30.33	+ .23	55	51	+ 1	NNW	2	c	*	c	*	66	48	—
	Cambridge ...	30.20	62	NNE	1	b	30.32	+ .26	55	52	+ 2	ENE	1	o	*	b	10.4	65	43	—
	Yarmouth ...	30.16	58	NNW	4	b	30.27	+ .30	58	54	+ 2	NNW	2	b	3	c, b	*	60	48	—
Germany & Holland.	Cuxhaven ...	29.90	57	WNW	3	bc	30.03	+ .15	57	56	+ 4	NW	4	bc	*	r, bc	*	59	52	0.51
	Berlin	29.97	59	W	2	r	30.07	+ .07	54	51	− 4	WNW	4	o	*	r	*	73	51	0.04
	Wiesbaden ...	*	*	*	*	*	30.20	+ .23	56	52	− 1	NW	2	bc	*	*	*	64	52	0.08
	Munich... ..	30.08	55	NW	5	o	30.24	+ .20	51	48	− 14	NW	4	o	*	o	*	72	50	0.35
	The Helder ...	30.05	57	NNW	4	bc	30.21	+ .32	56	52	− 1	NNW	3	c	3	bc	*	59	54	0.04
Belgium.	Brussels ...	*	*	*	*	*	30.29	+ .32	54	49	+ 1	NW	3	o	*	b	*	61	42	0.04
	Cape Gris Nez...	?	.58	E	2	bc	?	?	56	54	0	WNW	2	c	1	bc	*	64	50	—
	Paris	30.13	63	N	3	b	30.32	+ .26	56	52	+ 2	ENE	1	b	*	b	*	69	45	0.04
	Brest	30.19	61	NE	2	b	30.31	+ .23	54	52	− 1	ENE	1	b	2	b	*	68	46	—
	Lorient	30.19	68	NNW	1	bc	30.29	+ .17	54	51	− 5	E	3	b	2	bc	*	73	50	—
France &	Rochefort ...	30.08	65	NW	4	o	30.20	+ .12	58	55	− 3	ENE	4	b	*	o	*	70	54	—
	Belfort	30.04	58	WSW	4	c	30.21	+ .17	52	49	− 3	ENE	3	m	*	c	*	75	44	—
	Lyons	30.08	60	N	1	o	30.17	+ .14	55	50	− 9	N	3	b	*	o	*	76	55	—
	Nice	29.87	67	2	0	c	29.86	− .04	69	65	0	E	1	bc	1	c	*	79	61	—
	Perpignan ...	30.00	74	W	4	o	30.08	+ .03	69	61	− 2	NW	3	b	*	o	*	82	65	—
	Biarritz ...	30.09	66	NNE	3	bc	30.17	+ .08	63	63	+ 2	NNE	2	o	2	bc	*	68	59	0.08
Penin-sula.	Corunna ...																*			
	Lisbon														*		*			
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 15.7 hrs;

WEATHER CHARTS

FOR ..... Tuesday, 5TH July, ... 1898

BAROMETER, WIND AND SEA.

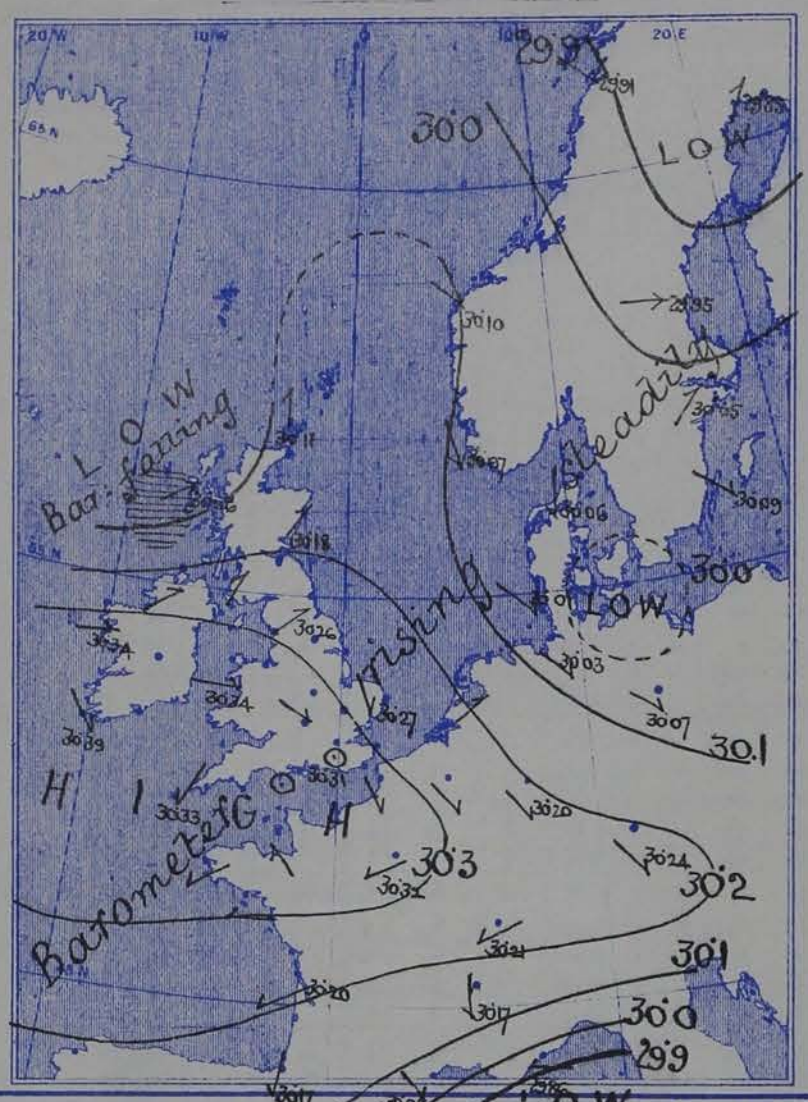
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟩⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ▤ ; *High* ▩



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·3 ins. and more to 30·2 ins. over Ireland, England and the Nᵗʰ. half of France. Lowest (1) Below 29·9 ins. over Lapland, and below 30·1 ins. at Stornoway, (2) Below 29·9 ins. at Nice, and below 30·0 ins. in a small disturbance over the NW. of Germany. Gradients very slight over Ireland and England, and Distribution mainly anticyclonic. Barometer rising except at our most Nʳⁿ stations, where it had been falling since last night.

TEMPERATURE — Highest 69° along the S. coast of France, 63° at Hurst Castle, 60° at Dungeness and Scilly. Lowest 49° at Bodo, 50° at Sumburgh Hd., 51° at Stornoway and Nairn. The maxima recorded yesterday were all below 70° in our Islands, but touched 69° at Hurst Castle, and 68° in London. At Paris the maximum was 69°, at Berlin 73°, at Nice 79°, at Perpignan 82°.

WIND — (1) Very light and anticyclonic over Ireland, England and France, E. to S. over the Bay of Biscay. (2) Cyclonic from the SWʳᵈ over Scotland, but only moderate to light in force. (3) Separate circulations of light to moderate breezes were prevalent over the countries lying to the eastward of the North Sea.

WEATHER — Fine over France, England and Ireland, as well as over the North Sea; dull and rainy in many parts of Scotland. Some rain had fallen over Germany also and at Biarritz. Bright Sunshine recorded yesterday exceeded 15 hrs. at our SWʳⁿ. stations, 10 hrs. at Cambridge, and 9 hrs. in London, but was only 7 hrs. at Stornoway.

SEA — Rather rough at Stornoway, very little disturbed elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A depression advancing towards the NW. of Scotland from the SWʳᵈ. is likely to cause further rain at the Nʳⁿ. stations, but the Sᵗʰ. parts of our Islands and France are not threatened yet.

FORECASTS

For the 24 hours ending at NOON on 6ᵀᴴ JULY 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	SW. and W. winds, showery, changeable.
1	SCOTLAND EAST	SW. breezes, light, some showers.
2	ENGLAND N.E.	Variable airs, fair generally.
3	ENGLAND EAST	Same as No. 5.
4	MIDLAND COUNTIES	Same as No. 2.
5	ENGLAND SOUTH	N. and NE. breezes, variable locally, light, fine, warmer.
6	SCOTLAND WEST	Same as No. 0.
7	ENGLAND N.W.	Same as No. 1.
8	ENGLAND S.W.	NE. breezes, light, fair.
9	IRELAND NORTH	Same as No. 0.
10	IRELAND SOUTH	Varying airs, fine generally.
	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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.78	58	56	NNW	6	c	2
Sumburgh Head	30.05	53	51	N	4	c	4
Stornoway	30.18	56	51	NE	3	c	3
Aberdeen	30.13	59	50	NW	4	bcq	4
Shields	30.14	57	51	N	3	bc	3
Ardrossan	30.17	61	58	WNW	4	b	2
Malin Head ...	30.27	55	52	NNW	3	b	2
Belmullet	30.29	59	53	NNE	1	bc	*
Holyhead	30.22	59	54	NNW	2	b	1
Valencia	30.25	62	54	W	2	b	3
Scilly	30.20	60	57	NNE	2	bc	1
Jersey	30.17	64	56	N	3	b	3
Hurst Castle ...	30.16	66	60	NE	2	cm	2
Dungeness ...	! 30.11	64	56	NNE	2	c	1
North Foreland	30.13	56	53	N	4	o	2
London (Westminster)	30.13	63	56	NNW	3	c	*
Yarmouth ...	30.09	58	53	NNW	4	c	4
Rochefort ...	30.08	69	66	NW	4	c	*

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

Weather in morning fine over nearly the whole of the British Islands, but showery in the extreme N. and E. of Scotland, in several parts of central France, and in some parts of S^tn. Russia. Rain falling later, but not in large quantities over Scotland, Norway, Germany and the Netherlands; slight falls at Paris and Biarritz also.

Temperature in morning highest (1) 74° at La Calle, 72° at Malta, Palermo and Leghorn, 71° at Perpignan; (2) 75° at Moscow, 72° at Kharkov, 70° at Archangel, and 64° at S^t. Petersburg. Lowest 51° to 53° at most of the Scotch stations, 54° at Parsonstown, Oxford and at Paris; and below 60° over nearly the whole of NW^n. Europe. Failing to reach 70° at any of our own stations later, but touching 67° at Loughborough, 68° in London, and 69° at Paris, 73° at Berlin and Lorient, 82° at Perpignan.

Wind (1) fresh to light from between NW. and NE. over the United Kingdom, but light and variable over France and central Europe; (2) moderate to strong and cyclonic over Scandinavia and the Baltic; NE^by.E to N^by.W and light over the southern half of Russia. No decided change later.

Barometer highest 30.2 ins. and more to 30.1 ins. over all the W^n. parts of the United Kingdom, and exceeding 30.0 ins. over France, and in a "ridge" extending thence in an E^by.N direction over Germany. Lowest (1) 29.6 ins. and less to 29.7 ins. in a depression over Scandinavia, and in another larger disturbance over Asia Minor and the Black Sea; (2) below 29.9 ins. in a small system over the extreme NE^n. parts of the Mediterranean. Rising over W^n. Europe later, but rise being checked in the NW. of our Islands.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Wednesday 6th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30·07	56	2	0	b	30·17	+ ·32	62	53	+ 6	2	0	b	*	b	*	64	50	—
	Hernösand ...	30·10	56	S	4	b	30·14	+ ·19	58	53	+ 2	NE	2	o	#	b	*	68	48	—
	Stockholm ...	30·12	55	NW	2	o	30·10	+ ·05	57	54	— 4	ENE	4	?	#	o	*	68	50	—
	Wisby	30·08	55	ESE	4	o	30·08	— ·01	57	55	— 1	WNW	4	bc	#	o	*	59	48	—
	Karlstad ...	30·08	58	NNE	2	o	30·10	+ ·07	55	52	0	S	2	o	#	o.r	#	#	#	0·16
	Bodö	29·95	53	W	4	bc	30·06	+ ·15	53	49	+ 4	E	4	b	1	bc	*	55	46	—
	Christiansund ...	30·11	56	WNW	2	b	30·04	— ·06	55	51	+ 2	WNW	3	b	2	b	#	57	50	—
	Skudesnaes ...	30·11	55	NW	2	b	30·10	+ ·03	54	50	— 1	2	0	b	1	b	*	58	45	#
	Færder (Christiania Fjord)	30·02	64	WSW	2	bc	30·06	+ ·03	59	56	+ 3	SSE	4	c	2	bc	#	64	55	—
	Skagen (The Scaw)	30·07	59	NW	1	b	30·13	+ ·07	58	55	+ 1	WNW	2	bc	0	b	#	73	57	—
	Fanö	30·12	53	NW	5	c	30·18	+ ·17	54	51	— 2	NW	2	c	#	c	#	61	52	—
British Islands.	Sumburgh Head	30·00	51	S	2	o	29·90	— ·21	55	55	+ 5	WSW	3	r	4	o	#	55	48	0·05
	Stornoway ...	30·05	57	WNW	5	r	29·99	— ·07	57	56	+ 6	W	5	r	5	r	0·0	57	47	0·50
	Wick	30·02	55	W	1	r	30·01	— ·16	61	58	+ 9	W	4	r	2	r	#	61	50	0·25
	Nairn	30·05	62	WSW	2	o	30·05	— ·12	62	59	+ 11	W	2	c	1	o	#	62	49	0·17
	Aberdeen ...	30·06	59	SW	1	0pg	30·08	— ·10	63	59	+ 8	S	2	0g	1	0gp	0·1	63	54	0·13
	Leith	30·15	57	WSW	2	o	30·16	— ·07	64	60	+ 13	WSW	3	om	#	o	#	64	50	0·15
	Shields	30·20	54	WSW	2	o	30·19	— ·07	62	59	+ 9	W	3	c	2	o	#	62	51	0·05
	Spurn Head ...	30·24	56	WNW	3	r	30·21	— ·06	61	59	+ 5	WNW	3	c	3	c,o,r	#	62	54	0·02
	York	30·26	57	W	3	o	30·23	— ·05	65	60	+ 13	WNW	2	bc	#	o.c	0·5	65	52	0·01
	Loughborough ...	30·29	60	WNW	2	o	30·29	— ·02	62	59	+ 7	WNW	3	c	#	c,om,cm	#	64	54	—
	Ardrossan ...	30·21	55	SW	1	rm	30·24	— ·02	58	58	+ 3	W	4	o	3	o.rm	#	58	52	0·30
	Malin Head ...	30·24	56	W	5	o	30·22	— ·03	59	57	+ 4	W	4	omg	3	r.of	#	59	55	0·03
	Belmullet ...	30·35	59	W	2	o	30·35	+ ·01	59	58	+ 1	W	3	o	#	o	#	61	53	0·02
	Donaghadee ...	30·27	63	W	3	c	30·30	— ·01	62	60	+ 4	W	3	o	1	c	#	65	56	—
	Liverpool (Bidston)	30·31	60	WNW	2	o	30·32	·00	59	57	+ 5	W	3	o	3	o	#	61	54	—
	Holyhead ...	30·33	59	SW	2	c	30·33	— ·01	60	57	— 1	WNW	3	c	2	b,c	#	64	54	—
	Parsonstown ...	30·34	66	NW	1	b	30·38	+ ·01	60	58	+ ·1	W	1	o	#	b	13·0	67	51	—
	Valencia ...	30·41	61	W	2	bc	30·44	+ ·05	58	56	+ 1	WNW	1	om	2	b,bc	13·2	61	54	—
	Roche's Point ..	30·36	66	SW	3	b	30·42	+ ·05	60	56	+ 2	N	1	b	1	b	#	67	52	—
	Pembroke (St. Ann's Hd.)	30·34	59	NW	2	b	30·35	·00	57	55	— 2	N	1	b	2	b	14·4	62	54	—
	Scilly	30·39	62	NW	2	bc	30·40	+ ·07	60	57	0	W	1	b	1	bc	14·9	64	55	—
	Prawle Point ...	30·33	64	NNW	2	b	30·39	+ ·05	65	58	+ 7	WNW	2	b	1	b	*	66	50	—
	Jersey (St. Aubin's)	30·34	63	NW	3	b	30·39	+ ·04	64	58	0	NNW	3	bcm	3	bc.bc	#	68	49	—
	Hurst Castle ...	30·29	66	WSW	3	b	30·34	+ ·04	61	58	— 2	W	1	0g	1	bcm,b	#	69	52	—
	Dungeness ...	30·25	60	SW	4	c	30·28	— ·02	64	60	+ 4	NNW	3	c	2	c	#	64	57	—
	North Foreland	30·28	60	SE	1	o	30·28	— ·03	61	57	+ 2	W	2	c	1	c.o	#	61	56	—
	London (Brixton) ...	30·28	66	WNW	2	bc	30·30	— ·01	62	57	+ 3	WSW	2	o	#	c.o	1·8	70	58	—
	Oxford	30·29	63	NW	1	o	30·32	— ·01	64	59	+ 9	WNW	3	o	#	c.o	#	67	55	—
	Cambridge ...	30·28	63	WNW	2	o	30·28	— ·04	63	59	+ 8	NW	3	o	#	c.o	5·2	67	53	—
	Yarmouth ...	30·25	58	SSE	3	c	30·21	— ·06	60	58	+ 2	WNW	3	cm	3	b.c	#	60	54	0·03
Germany & Holland.	Cuxhaven ...	30·15	58	NW	5	o	30·20	+ ·17	54	54	— 3	NW	2	bc	#	o	#	59	52	0·04
	Berlin	30·12	59	W	3	b	30·30	+ ·23	55	52	+ 1	WNW	3	o	#	b	#	68	53	0·08
	Wiesbaden ...	*	*	*	*	*	30·29	+ ·09	56	53	0	W	1	b	#	*	*	61	51	—
	Munich... ..	30·27	54	SW	3	o	30·29	+ ·05	55	52	+ 4	NW	3	o	#	o	*	61	51	—
	The Helder ...	30·24	56	NW	1	bc	30·20	— ·01	56	54	0	WSW	2	r	1	bc	*	59	54	0·08
France & Belgium.	Brussels ...	? *	*	*	*	*	30·28	— ·01	57	54	+ 3	W	2	o	#	o	*	65	49	—
	Cape Gris Nez...		58	SSW	1	bc	?	?	58	55	+ 2	NW	2	m	2	bc	#	64	50	—
	Paris	30·30	61	NNE	2	b	30·32	·00	57	55	+ 1	N	1	o	#	b	#	66	52	—
	Brest	30·34	64	NNE	2	b	30·41	+ ·10	56	50	+ 2	NE	1	b	1	b	#	72	46	—
	Lorient... ...	30·31	65	NW	1	b	30·38	+ ·09	56	55	+ 2	ENE	1	b	1	b	#	73	50	—
	Rochefort ...	30·20	73	NE	3	bc	30·29	+ ·09	60	55	+ 2	E	2	b	#	bc	#	84	54	—
	Belfort	30·18	59	ENE	2	c	30·32	+ ·11	51	48	— 1	2	0	m	#	c	#	68	45	—
	Lyons	?	64	N	3	b	30·25	+ ·08	55	48	0	N	4	b	#	b	#	67	51	0·04
	Nice	29·95	58	NE	5	r	30·00	+ ·14	67	56	— 2	E	1	b	1	r	#	72	54	0·39
	Perpignan ...	30·07	77	NW	3	bc	30·15	+ ·07	67	55	— 2	NW	2	bc	#	b	#	80	62	—
	Biarritz ...	30·17	69	NNW	4	b	30·23	+ ·06	61	56	— 2	E	4	b	2	b	#	72	55	—
Peninsula.	Corunna ...																#			
	Lisbon	30·05	69	NW	2	bc	30·08	+ ·03	68	64	0	SW	2	bc	#	bc	#	81	66	—
	Azores (P. Delgada)	30·26	68	E	4	bc	30·26	+ ·02	67	62	+ 1	NE	2	o	2	bc	#	73	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 3·6 hrs;

WEATHER CHARTS

FOR Wednesday, 6th July, 1898

BAROMETER, WIND AND SEA.

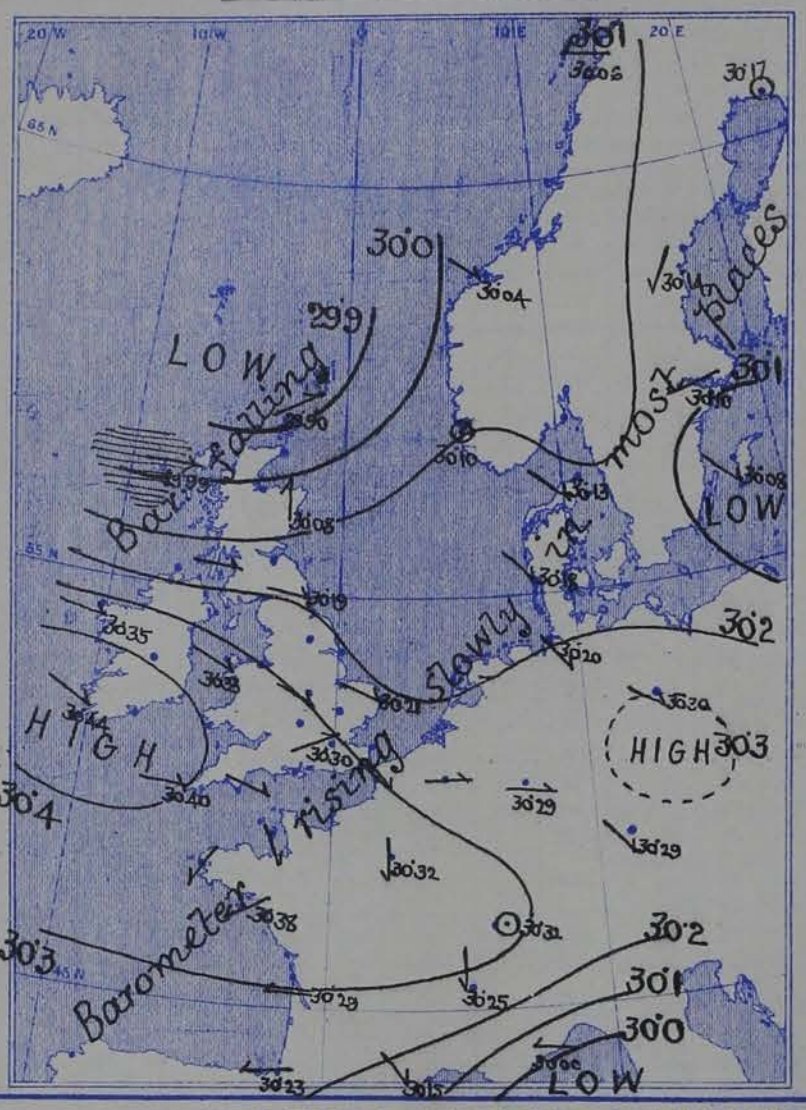
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ▒ ; *High* ▓



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—{ A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95: Means of				Absolute Extremes.				RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·0 ins. and more in the S. of Ireland, and exceeding 30·2 ins. all over Ireland, England, France and Germany.
Lowest 29·9 ins. to 30·0 ins. over the Shetlands, the Hebrides, and extreme N. of Scotland.
Gradients very slight except over Scotland.
Barometer still falling a little in the N^rn and N.W.^rn districts.

TEMPERATURE — Highest 65° to 60° at the stations in the S. and E. of England, 63° to 60° in the E. and N. of Scotland; 62° at Haparanda.
Lowest 53° to 55° along the W. coast of Norway.
The maxima recorded yesterday were nearly all below 70° in our Islands; Berlin had a maximum of 68°, Paris 66°, Nice 72° and Perpignan 80°.

WIND — Moderate from W. at the Scotch stations and in the north and northwest of Ireland; light W.^ly to NW.^ly over England and the English Channel, NE.^ly to E.^ly over the Bay of Biscay.

WEATHER — Fine generally over Ireland, England and France, rainy in the N. of Scotland & the Shetl^ds. Rain has fallen in Scotland and slight showers in the N. and E. of England.
Bright Sunshine recorded yesterday was very large over Ireland and the SW. of England; in Scotland there was hardly any.

SEA — Very smooth except at Stornoway and Dunburgh Hd.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Fine warm weather is probable over the S.^rn half of the Kingdom, showers in the north.

FORECASTS

For the 24 hours ending at NOON on 7^TH. JULY 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W.^ly and NW.^ly breezes, showery to fair.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	NW.^ly breezes, light; fair generally, warmer.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as Nos. 0 and 1.
7	ENGLAND N.W.	W.^ly breezes, moderate, fair as a whole.
8	ENGLAND S.W.	
9	IRELAND NORTH	Same as Nos. 0 and 1.
10	IRELAND SOUTH	NW.^ly breezes, light; fine.
	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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·10	58	51	NNW	6	b	2
Sumburgh Head	30·05	51	49	S	2	o	3
Stornoway	30·04	57	56	WNW	5	r	5
Aberdeen	30·12	56	52	S	2	opg	1
Shields	30·24	57	51	WSW	3	o	3
Ardrossan	30·22	54	53	SW	2	o	2
Malin Head ...	30·24	56	55	W	5	r	3
Belmullet	30·35	60	55	WSW	3	o	*
Holyhead	30·33	63	56	SW	2	b	1
Valencia	30·40	60	55	W	3	b	4
Scilly	30·37	63	57	N	2	bc	1
Jersey	30·35	67	58	WNW	3	bc	3
Hurst Castle ...	30·29	67	62	WSW	3	bcm	2
Dungeness ...	30·27	60	59	SW	4	c	3
North Foreland	30·29	60	56	SE	3	c	2
London (Westminster)	30·27	69	61	W	3	bc	*
Yarmouth ...	30·26	60	55	ENE	2	b	3
Rochefort ...	30·22	81	73	E	3	b	*

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

Weather in morning fine over Ireland, England, France and Spain, as well as over the greater part of the Baltic, the Baltic provinces and the greater part of Finland; rainy over Scotland and Denmark. Rain falling later at our N^w. and E^n. stations, and in several parts of the Continent, but weather remaining fine over the greater part of Ireland, England and the N. and W. of France.

Temperature changing little. Morning readings highest 82° at Brindisi, 76° at Palermo, and exceeding 70° at many of the Mediterranean and Adriatic stations, as well as over central Russia. Exceeding 60° on the S. coast of England, and touching 60° at many stations in Finland. Lowest 49° at Bodö, 50° at Sumburgh Hd., 51° at Stornoway, Nairn and Leith, 52° at York, 55° at Oxford. Touching 70° in London later, 68° at Berlin, 66° at Paris, but reaching 80° at Perpignan, and 84° at Rochefort.

Wind light and anticyclonic over by far the greater part of Ireland, England, France and Spain, but cyclonic and very variable over the N^w. E^n. and S^w. parts of Continental Europe and the Mediterranean, SW^ly. and moderate at the Scotch stations. Veering to WNW. at Stornoway later, and blowing freshly in the N. and W. of Scotland generally.

Barometer highest 30·3 ins. and more to 30·2 ins. over Ireland, England and the greater part of France, and exceeding 30·0 ins. over the Baltic and N. Germany. Lowest below 29·9 ins. in several shallow depressions lying over the Mediterranean, the Adriatic, Russia and N^w. Europe, and below 30·1 ins. in another approaching the N. of Scotland from the Atlantic. Latter system spreading E^wly. and SE^wly. 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Thursday 7th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	30·03	58	S	2	bc	29·75	−·42	62	58	0	S	2	o	#	bc	#	66	45	—
	Hernösand ...	29·97	55	2	o	b	29·71	−·37	56	56	−2	SSE	4	o	#	b	#	64	50	—
	Stockholm ...	30·02	54	SW	2	b	29·87	−·23	61	55	+4	SW	4	o	#	b	#	61	52	0·08
	Wisby	30·06	55	SW	4	b	29·98	−·10	59	54	+2	SSW	4	o	#	b	#	59	50	—
	Karlstad ...	29·98	59	SSW	4	b	29·71	−·39	54	53	−1	S	6	r	#	b	#	#	#	0·43
	Bodö	29·84	60	E	2	b	29·62	−·44	?60	51	+7	E	4	b	1	b	#	60	48	—
	Christiansund ...	29·72	55	ESE	2	r	29·53	−·51	55	53	0	ESE	3	r	2	r	#	59	52	0·32
	Skudesnaes ...	29·88	64	W	6	r	29·81	−·29	52	50	−2	WNW	6	rf	2	o,r	#	55	45	#
	Færder (Christiania Fjord)	29·94	59	SW	6	o	29·69	−·37	62	59	+3	WSW	4	b	4	o	#	63	55	0·20
	Skagen (The Scaw)	30·04	57	WSW	2	o	29·80	−·33	57	54	−1	W	6	bc	1	o	#	?63	54	0·08
	Fanö	30·10	57	SW	4	o	29·93	−·25	57	57	+3	WSW	6	r	#	o	#	61	54	0·04
British Islands.	Sumburgh Head	29·77	51	W	4	o	29·80	−·10	52	50	−3	WNW	5	b	5	r,o	#	56	47	0·14
	Stornoway ...	29·99	57	WNW	5	o	30·07	+·08	53	52	−4	WNW	4	o	4	p,o	0·3	58	48	0·20
	Wick	29·97	56	NW	5	o	30·00	−·01	53	51	−8	NW	7	o	2	o	#	65	50	0·03
	Nairn	29·98	62	WSW	3	c	30·05	·00	57	54	−5	W	3	c	2	c	#	67	52	—
	Aberdeen ...	29·98	66	W	3	c	30·03	−·05	63	55	0	W	3	bc	2	p,c,q	1·7	73	55	0·01
	Leith	30·10	61	SW	4	o	30·09	−·07	64	59	0	WSW	3	bc	#	o	#	67	56	—
	Shields	30·15	65	WSW	3	c	30·10	−·09	62	59	0	W	4	c	2	bc,c	#	71	58	—
	Spurn Head ...	30·19	63	W	3	c	30·13	−·08	61	59	0	W	4	c	3	c,p	#	68	59	—
	York	30·23	69	W	4	bc	30·15	−·08	63	60	−2	W	3	c	#	bc	5·5	73	60	—
	Loughborough ...	30·27	68	WNW	4	c	30·22	−·07	64	60	+2	W	3	cw	#	c,bcq,c	#	74	57	—
	Ardrossan ...	30·15	59	SW	4	obd	30·17	−·07	58	57	0	WNW	3	c	3	udp	#	61	55	0·07
	Malin Head ...	30·20	57	W	6	rm	30·22	·00	56	56	−3	WNW	5	cmr	3	o,rm	#	61	55	0·12
	Belmullet ...	30·33	62	WSW	3	o	30·32	−·03	59	58	0	W	2	o	#	o	#	64	52	0·04
	Donaghadee ...	30·23	67	WSW	5	c	30·22	−·08	61	58	−1	WNW	5	c	3	c	#	72	58	—
	Liverpool (Bidston)	30·28	63	W	4	o	30·23	−·09	59	58	0	W	5	o	4	o	#	65	59	—
	Holyhead ...	30·31	61	SW	3	c	30·26	−·07	61	59	+1	W	3	cm	2	c	#	68	57	—
	Parsonstown ...	30·35	65	W	1	o	30·33	−·05	62	60	+2	W	1	o	#	p,o	0·8	66	59	—
	Valencia ...	30·44	60	2	o	o	30·40	−·04	59	58	+1	W	1	cm	2	o	0·9	62	57	0·01
	Roche's Point ..	30·39	68	N	2	bc	30·37	−·05	63	59	+3	NW	3	c	2	bc	#	69	58	—
	Pembroke (St. Ann's Hd.)	30·36	59	NW	3	b	30·33	−·02	59	56	+2	NW	3	o	2	b	13·4	62	56	—
	Scilly	30·41	61	WNW	2	bc	30·37	−·03	62	60	+2	NNW	1	bcr	0	bc	14·3	67	57	—
	Prawle Point ...	30·36	68	WNW	2	b	30·35	−·04	67	61	+2	NW	3	bc	1	b	#	69	52	—
	Jersey (St. Aubin's)	30·38	65	W	4	bc	30·35	−·04	62	58	−2	W	3	bmw	3	bc,w	#	67	55	—
	Hurst Castle ...	30·30	74	WNW	2	c	30·29	−·05	69	63	+8	WNW	2	bc	1	c	#	75	55	—
	Dungeness ...	30·24	63	WSW	2	c	30·23	−·05	65	62	+1	WSW	2	bc	1	c	#	72	54	—
	North Foreland	30·26	69	W	2	c	30·24	−·04	64	60	+3	W	4	bc	2	bc,c	#	71	59	—
	London (Brixton) ...	30·27	71	WNW	2	c	30·25	−·05	65	60	+3	WNW	2	c	#	c	2·4	75	54	—
	Oxford	30·29	66	NNW	1	o	30·26	−·06	65	60	+1	W	1	o	#	c,o	#	74	56	—
	Cambridge ...	30·25	70	NW	2	b	30·22	−·06	65	61	+2	WSW	2	o	#	b	5·9	76	57	—
	Yarmouth ...	30·21	63	NNE	1	bc	30·16	−·05	64	60	+4	WNW	4	bc	2	b	#	65	57	0·01
Germany & Holland.	Cuxhaven ...	30·17	59	SW	2	o	30·02	−·18	58	58	+4	SW	4	r	#	o	#	61	54	0·04
	Berlin	30·23	60	WNW	2	c	30·15	−·15	55	51	0	SW	2	o	#	c	#	61	49	—
	Wiesbaden ...	*	*	*	*	*	30·22	−·07	60	55	+4	NW	1	o	#	#	#	68	55	—
	Munich... ..	30·28	53	SW	3	c	30·27	−·02	57	53	+2	W	1	b	#	c	#	63	46	0·08
	The Helder ...	30·19	59	NW	1	c	30·11	−·09	59	58	+3	WNW	3	r	2	c	#	61	55	0·04
Belgium.	Brussels ...	*	*	*	*	*	30·22	−·06	64	60	+7	NW	1	b	#	o	#	65	55	0·04
	Cape Gris Nez...	?	62	SW	1	c	?	?	62	58	+4	W	1	c	1	c	#	68	55	—
	Paris	30·29	67	ESE	2	o	30·29	−·03	61	58	+4	SSE	1	bc	#	o	#	72	56	—
	Brest	30·41	61	N	3	b	30·36	−·05	58	56	+2	N	1	c	o	b	#	64	48	—
	Lorient... ...	30·34	67	WNW	3	b	30·36	−·02	57	55	+1	NE	1	b	1	b	#	75	50	—
France &	Rochefort ...	30·29	67	NW	4	bc	30·28	−·01	64	62	+4	NE	2	bc	#	bc	#	91	59	—
	Belfort	30·21	62	2	o	o	30·24	−·08	57	52	+6	2	o	m	#	o	#	68	51	—
	Lyons	30·24	63	NNW	3	bc	30·25	·00	60	56	+5	N	2	c	#	bc	#	69	51	—
	Nice	30·01	66	SW	2	c	30·02	+·02	69	59	+2	E	1	b	o	c	#	75	57	—
	Perpignan ...	30·15	73	NW	3	b	30·18	+·03	70	59	+3	W	4	b	#	b	#	76	64	—
	Biarritz ...	30·21	68	NNE	6	b	30·23	·00	64	63	+3	E	3	b	2	b	#	77	59	—
Peninsula.	Corunna ...																#			
	Lisbon	30·03	78	NNW	4	b	30·03	−·05	74	63	+6	NE	3	o	#	b	#	84	68	—
	Azores (P. Delgada)	30·20	66	ESE	4	b	30·10	−·16	68	62	+1	SSE	3	o	3	b	#	73	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0·6 hrs;

WEATHER CHARTS

FOR Thursday, 7th July, 1898

BAROMETER, WIND AND SEA.

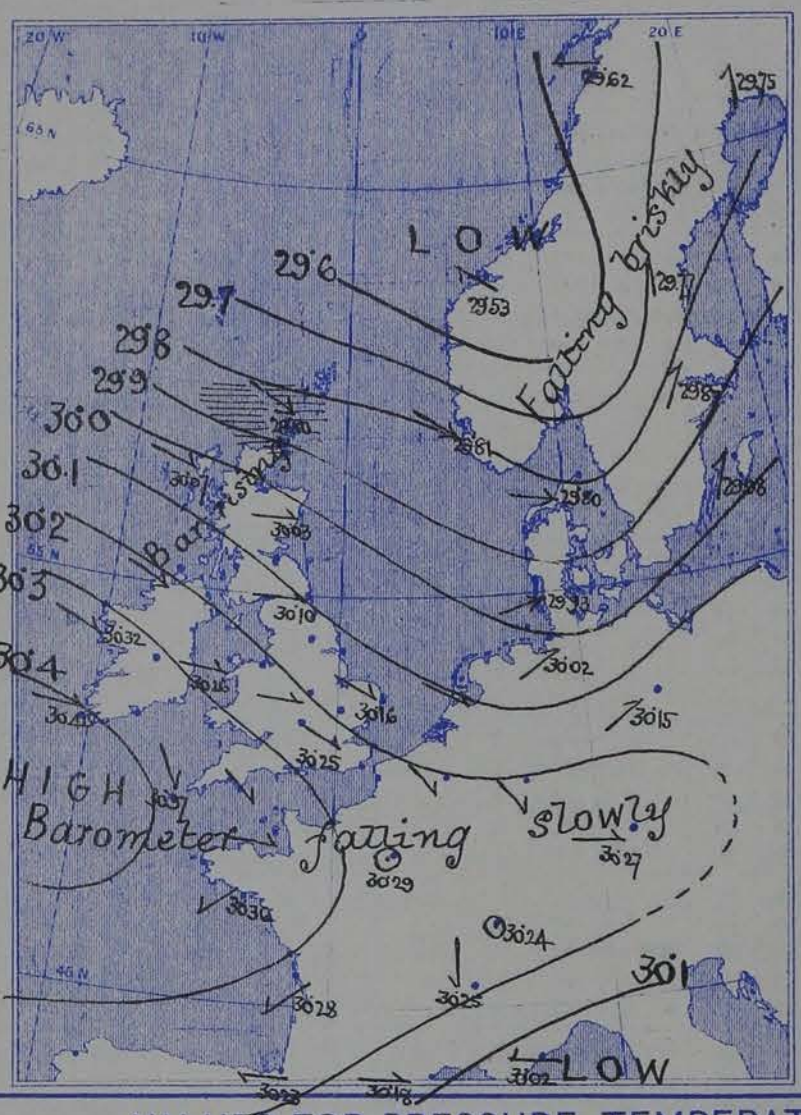
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟩⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ▤ ; High ▩

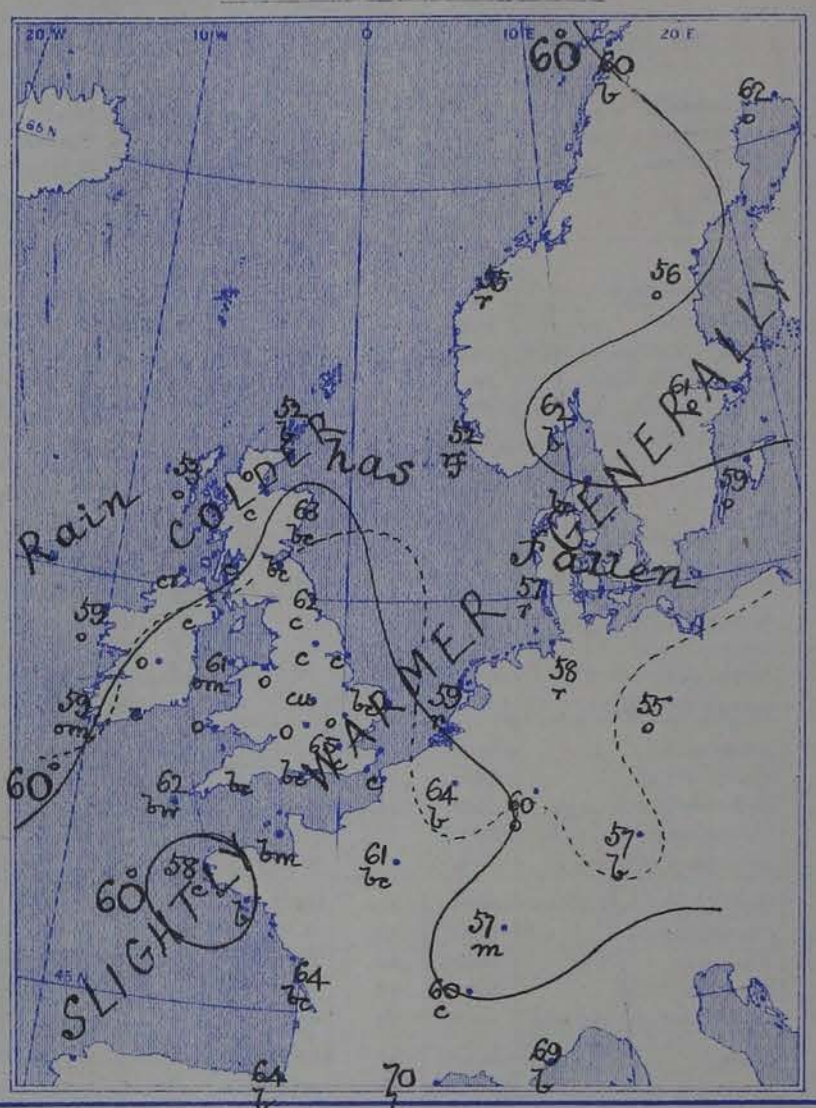


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—{ A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 809	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.40 ins. at Valencia and exceeding 30.2 ins. all over Ireland, the S.W. half of England and the whole of France.
Lowest 29.6 ins. and less over Norway.
Gradients slight over the S. and W. parts of our Islands, moderate in the N. and E., rather steep for S. winds over the southern parts of Sweden. Barometer still falling over Scandinavia and the North Sea, but has begun to rise again on our extreme NW. and W. coasts.

TEMPERATURE

Highest (1) 70° at Perpignan, 69° to 64° over the S. parts of England, 64° to 62° on our N.E. coasts.
(2) 62° at Haparanda, 61° at Stockholm.
Lowest (1) 52° to 53° in the N. of Scotland, 56° at Malin Hd.; (2) 55° at Berlin, 57° at Munich.
The maxima recorded yesterday ranged from 76° to 70° over the major part of England and the E. of Scotland, but were much lower over Ireland and the W. of Scotland.

WIND

(1) NW. by W. and W. over the United Kingdom, and blowing very strongly in Caithness.
(2) W. by N. and strong over Denmark, S. by W. over Sweden, E. by S. at Bodö and Christiansund.
(3) Over France they were light and anticyclonic.

WEATHER

Fine over France, fair over England, cloudy and unsettled in Scotland, rainy over the eastern shores of the North Sea.
Showers have again fallen over the N.W. parts of our Islands and over Germany.
Bright Sunshine recorded yesterday exceeded 14 hrs. at Scilly and 13 hrs. at Pembroke at Cambridge there were 5.9 hrs., at York 5.5 hrs. but at the most N.W. and N.W. stations there was hardly any.

SEA

Rather rough in the far north, slight to very smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Further showers are probable over the N.W. and extreme E. parts of our area, but in the W. and S. fine weather is still probable, and may spread to the other regions later.

FORECASTS

For the 24 hours ending at NOON on 8TH JULY 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	NW. by W. breezes very strong; squally, showery.
1	SCOTLAND EAST	
2	ENGLAND N.E.	NW. by W. breezes, moderate; some showers, bright intervals.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	W. by N. and NW. by W. breezes, moderate. fair generally.
6	SCOTLAND WEST	Same as Nos. 0 and 1.
7	ENGLAND N.W.	Same as No. 2.
8	ENGLAND S.W.	NW. by W. and N. by W. winds; fair generally.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·06	55	52	S	4	o	2
Sumburgh Head	29·76	54	54	WSW	5	r	4
Stornoway	29·98	58	57	W	5	o	5
Aberdeen	29·99	69	61	SW	2	c	1
Shields	30·18	69	63	W	3	bc	2
Ardrossan	30·20	59	58	WSW	4	r	3
Malin Head ...	30·20	60	58	W	6	o	4
Belmullet	30·34	63	60	W	3	o	*
Holyhead	30·34	64	59	SW	2	c	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·44	62	59	W	2	o	3
Scilly	30·40	64	60	NW	2	bc	1
Jersey	30·40	66	57	WNW	3	bc	3
Hurst Castle ...	30·32	69	64	WSW	2	c	2
Dungeness ...							
North Foreland	30·28	70	63	W	2	bc	1
London (Westminster)	30·28	73	61	WNW	2	bc	*
Yarmouth ...	30·22	65	62	N	4	bc	3
Rochefort ...	30·33	71	64	N	3	b	*

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

Weather in morning fair generally over the greater part of Ireland, England, France and N. Germany, and very fine over Finland, Lapland and Norway. Rainy in the N. of Scotland and at several stations in S. Germany. Rain falling later at many of the stations in the N. of our Islands and in Scandinavia, as well as in the Netherlands and some parts of Germany, but continuing very fine over France and our SW. districts.

Temperature fallen fast over Italy and the S. of Austria, but risen in many parts of our Islands. Morning readings highest 80° at Athens and Brindisi, 77° at Constantinople, and above 70° at several stations in the S. and SE. of Europe; above 60° over Gt. Britain, as well as over Finland and the Baltic Provinces. Lowest (1) 53° to 55° in the W. of Norway and the Shetland Islands; (2) between 51° and 60° over the central parts of France, Germany and Austria. Rising later to between 70° and 76° over England and the E. of Scotland, to 72° at Paris, and between 75° and 77° in the S. of France, but not exceeding 61° at Berlin and Cuxhaven, nor 63° at Munich.

Wind (1) W. moderate to fresh at our northern stations, S. and Faeroes and Karlstad, E. at Bodö; (2) moderate and cyclonic over the Adriatic, Italy and the eastern half of the Mediterranean; (3) light and very variable elsewhere, and mainly anticyclonic over Ireland, England, France and Germany.

Barometer highest 30·4 ins. and more over the S. of Ireland, Cornwall and Brittany, and 30·3 ins. to 30·2 ins. over Ireland, England, France and the greater part of Germany. Lowest 29·9 ins. and less in several shallow depressions,—one off the N. of Scotland, another over the S.W. half of Russia, and a third over Italy and the Adriatic. Falling decidedly later over Scandinavia, as the depression in the N. moved E.wds.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Friday 8th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.78	54	SW	4	bc	29.88	+ .13	60	56	− 2	S	2	c	#	bc	#	64	48	0.32
	Hernösand ...	29.70	55	S	6	r	29.80	+ .03	57	56	+ 1	S	0	o	#	r	#	61	48	0.24
	Stockholm ...	29.75	56	S	2	o	29.76	− .11	62	57	+ 1	SSE	2	bc	#	o	#	63	50	—
	Wisby	29.78	56	SSW	6	o	29.78	− .20	58	55	− 1	WSW	4	f	#	o	#	61	50	0.08
	Karlstad ...	29.63	60	SSW	2	c	29.73	+ .02	55	53	+ 1	NE	2	o	#	c	#	#	#	—
	Bodö	29.69	59	ENE	1	b	29.83	+ .21	53	51	− 7	W	2	b	1	b	#	66	45	—
	Christiansund ...	29.65	57	NNW	1	o	29.94	+ .41	56	54	+ 1	N	2	o	2	o	#	57	54	0.16
	Skudesnaes ...	29.79	51	NW	6	r	29.87	+ .06	55	53	+ 3	NNW	6	c	2	o,r	#	55	48	#
	Færder (Christiania Fjord)	29.60	61	WNW	5	o	29.70	+ .01	59	54	− 3	NNE	4	bc	3	o	#	63	55	—
	Skagen (The Scaw)	29.71	56	WNW	5	c	29.70	− .10	59	55	+ 2	NNE	2	bc	0	c	#	61	54	—
	Fanö	29.91	55	WNW	6	c	29.82	− .11	54	53	− 3	WNW	4	c	#	c	#	61	54	0.12
	Sumburgh Head	29.90	51	WNW	5	o	30.10	+ .30	49	48	− 3	NW	5	o	6	b,o	#	55	47	—
	Stornoway ...	30.19	54	NW	5	o	30.29	+ .22	52	49	− 1	N	3	o	3	c,o	4.9	56	47	0.03
	Wick	30.11	53	NW	7	o	30.22	+ .22	52	50	− 1	NW	6	b	4	o	#	57	50	—
	Nairn	30.16	61	NNW	3	bc	30.26	+ .21	55	52	− 2	W	2	c	1	bc	#	65	49	—
	Aberdeen ...	30.12	62	NW	4	bq	30.22	+ .19	56	49	− 7	NW	5	bcq	3	bcq,bq	1.4.4	66	49	—
	Leith	30.13	65	WNW	3	b	30.24	+ .15	60	54	− 4	WSW	1	b	#	b	#	75	47	—
	Shields	30.12	65	2	0	c	30.23	+ .13	55	51	− 7	N	3	bc	2	c	#	72	49	—
	Spurn Head ...	30.12	61	ESE	2	c	30.19	+ .06	56	53	− 5	NNW	4	c	3	c	#	68	54	—
	York	30.14	69	WNW	3	b	30.23	+ .08	59	54	− 4	NW	1	c	#	c,b	10.4	72	49	—
	Loughborough ...	30.19	65	WNW	4	b	30.23	+ .01	62	56	− 2	N	2	cmw	#	c,bc,b,o	#	69	50	—
British Islands.	Ardrossan ...	30.20	58	W	5	b	30.25	+ .08	56	52	− 2	NW	4	c	2	b	#	61	50	—
	Malin Head ...	30.29	54	NNW	5	omg	30.34	+ .12	54	50	− 2	NNW	4	bc	1	bc,omg	#	57	50	0.02
	Belmullet ...	30.39	60	W	1	o	30.38	+ .06	57	55	− 2	W	1	o	#	bm,o	#	62	53	0.01
	Donaghadee ...	30.27	61	NNW	4	b	30.30	+ .08	55	52	− 6	NW	6	bc	4	b	#	63	49	—
	Liverpool (Bidston)	30.23	60	W	[illegible]	c-	30.26	+ .03	56	52	− 3	WNW	3	bc	3	p,c	#	62	53	—
	Holyhead ...	30.27	62	WNW	2	c	30.31	+ .05	55	52	− 6	N	3	c	2	o,c	#	66	51	—
	Parsonstown ...	30.29	66	WNW	1	o	30.33	.00	56	54	− 6	S	0	o	#	c,om	3.4	70	54	—
	Valencia ...	30.37	60	NW	2	om	30.33	− .07	63	59	+ 4	NE	1	bc	2	om	0.0	63	56	—
	Roche's Point ..	30.33	64	NNW	2	c	30.34	− .03	59	56	− 4	NNW	3	o	2	c	#	70	57	—
	Pembroke (St. Ann's Hd.)	30.32	63	NW	2	bc	30.29	− .04	56	53	− 3	NE	4	o	2	bc	7.2	62	54	—
	Scilly	30.33	62	WNW	3	b	30.26	− .11	61	58	− 1	NW	2	om	1	b	1.4.7	66	56	—
	Prawle Point ..	30.28	67	NW	2	c	30.25	− .10	68	62	+ 1	NW	2	b	1	c	#	75	55	—
	Jersey (St. Aubin's)	30.29	66	WNW	4	b	30.24	− .11	63	60	+ 1	NW	3	bc	3	b,c,w	#	70	58	—
	Hurst Castle ...	30.20	73	NW	2	bc	30.21	− .08	65	60	− 4	N	3	b	1	c,bc	#	74	54	—
	Dungeness ...	30.15	64	WSW	3	c	30.14	− .09	60	58	− 5	N	3	c	2	bc,c	#	67	54	—
	North Foreland	30.15	67	W	2	bc	30.17	− .07	58	56	− 6	NW	3	o	2	bc	#	75	56	—
	London (Brixton) ...	30.17	72	WNW	2	c	30.20	− .05	62	56	− 3	NE	2	b	#	c,b	4.2	75	53	—
	Oxford	30.21	63	N	2	b	30.22	− .04	59	54	− 6	N	3	b	#	c,b	#	73	52	—
	Cambridge ...	30.17	69	NW	3	b	30.21	− .01	56	54	− 9	N	2	o	#	b	5.8	73	49	—
	Yarmouth ...	30.12	65	N	2	c	30.17	+ .01	59	55	− 5	N	4	bc	3	bc,c	#	69	54	—
Germany & Holland.	Cuxhaven ...	30.01	58	NW	5	bc	29.91	− .11	55	53	− 3	WNW	5	o	#	bc	#	61	54	0.04
	Berlin	29.97	60	W	2	r	29.92	− .23	55	52	0	W	3	o	#	r	#	66	53	0.28
	Wiesbaden ...	*	*	*	*	*	30.06	− .16	60	56	0	NW	3	bc	#	*	#	68	58	0.16
	Munich... ..	30.19	60	SW	5	o	30.05	− .22	55	55	− 2	W	5	r	#	o	#	66	55	0.35
	The Helder ...	30.09	60	NW	1	bc	30.09	− .02	57	53	− 2	NW	4	c	3	bc	#	61	55	—
Belgium.	Brussels ..	*	*	*	*	*	30.14	− .08	59	55	− 5	NE	1	o	#	r	#	71	55	0.20
	Cape Gris Nez	?	63	NW	2	m	?	?	58	55	− 4	N	2	m	2	m	#	64	55	—
	Paris ...	30.16	72	N	3	b	30.17	− .12	61	59	0	NW	1	b	#	b	#	76	54	—
	Brest	30.31	65	N	3	b	30.25	− .11	59	58	+ 1	NE	1	b	0	b	#	72	52	—
	Lorient... ...	30.28	65	N	3	b	30.24	− .12	59	59	+ 2	NNE	2	b	1	b	#	75	50	—
France &	Rochefort ...	30.24	68	NW	4	bc	30.17	− .11	61	60	− 3	NNW	3	b	#	bc	#	81	59	—
	Belfort	30.13	67	2	0	c	30.07	− .07	60	58	+ 3	W	2	m	#	c	#	78	57	—
	Lyons ...	30.15	70	N	2	b	30.11	− .14	66	62	+ 6	N	2	b	#	b	#	74	59	—
	Nice	30.02	69	SW	1	b	29.97	− .05	71	61	+ 2	S	0	b	0	b	#	75	59	—
	Perpignan ...	30.10	79	NW	3	b	30.11	− .07	73	61	+ 3	NW	3	b	#	b	#	81	67	—
	Biarritz ...	30.17	69	N	3	b	30.13	− .10	64	62	0	SSW	3	b	2	b	#	77	61	—
Peninsula.	Corunna ...																#			
	Lisbon	30.04	73	WNW	3	b	30.03	.00	77	64	+ 3	S	1	b	#	b	#	82	72	—
	Azores (P. Delgada)	29.97	69	S	5	o	29.92	− .18	70	68	+ 2	S	0	c	3	o	#	73	66	0.08

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 5·5 hrs;

WEATHER CHARTS

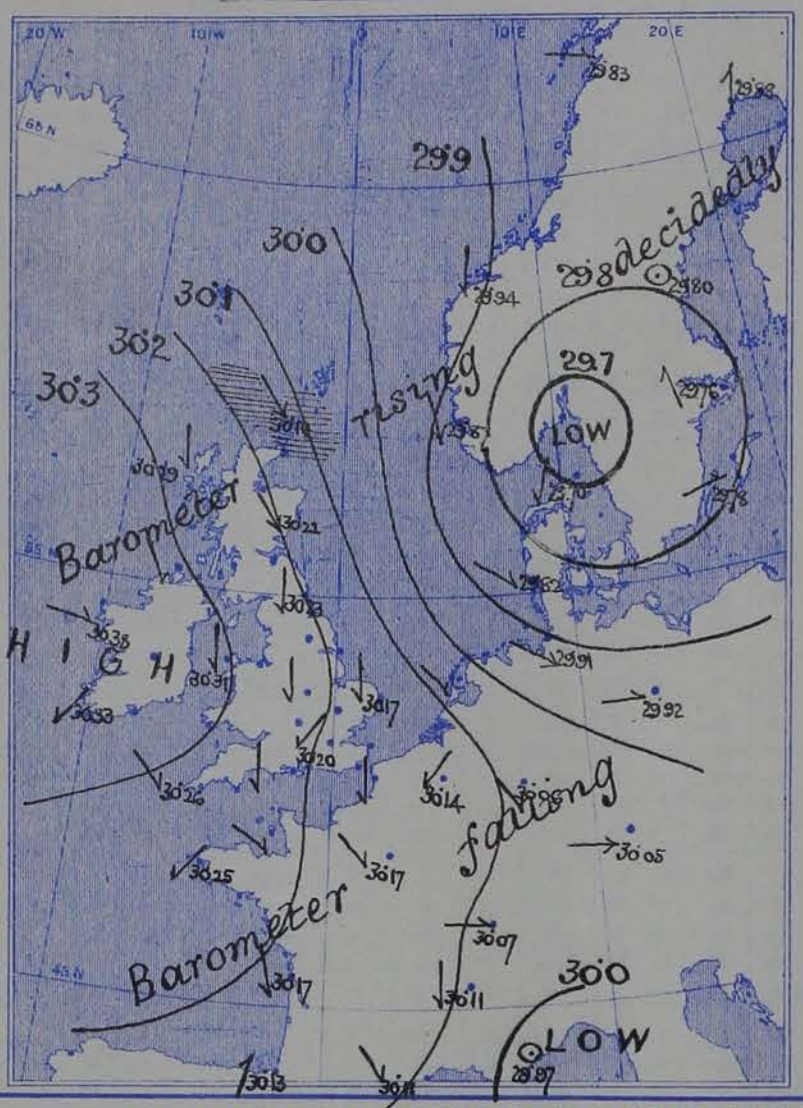
FOR Friday 8th July, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; } *Calm* ⊙
Force 8 to 10 ⟫⟶ ; *Force 1 to 4* ⟶ ; }

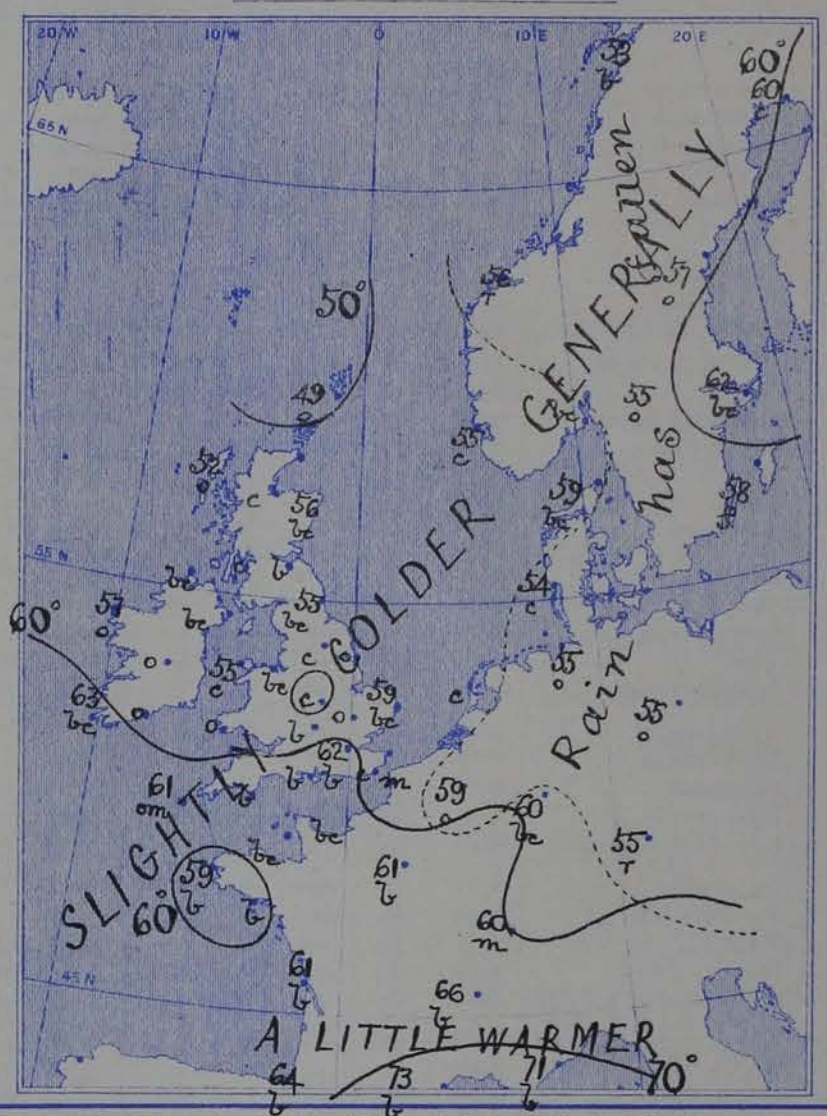
SEA—Rough ▤ ; *High* ▩



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—{ A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·3ins and more over Ireland and the Irish Sea.
Lowest 29·7ins. to 29·8ins. in a depression over Denmark and the S.ᵐ half of Sweden.
Gradients favourable for N.ᴱʸ winds, and slight over our Islands and France, moderate over the North Sea.
Barometer rising in the N. falling slightly in the S. and more decidedly over Germany.

TEMPERATURE

Highest 73° to 70° on the S. coast of France, 68° to 60° over the S.ᵐ counties of England 62° at Stockh.
Lowest 49° at Scarbrough Hd., 52° at Stornoway, 54° at Fare, 55° at Shields and Holyhead.
The maxima recorded yesterday again ranged from 75° to 70° over the greater part of England, and touched 76° at Paris, 81° at Rochefort and Perpignan. Over Germany they were much lower.

WIND

NW.ᴱʸ, fresh at our northern and northwestern stations, more N.ᴱʸ elsewhere – moderate at our eastern stations, light in the southwest.
Over Germany they were more W.ᴱʸ, moderate to fresh in force.
It appeared to be freshening a little over the North Sea.

WEATHER

Rather squally in the E. of Scotland, fair over the other parts of our Islands; fine over France, but raining at Munich.
Rain had fallen at all the German stations and in some parts of Belgium, Denmark and the extreme NW. of our Islands. Bright Sunshine recorded yesterday amounted to 14·7 hrs. at Scilly to 14·4 hrs. at Aberdeen, and to 10·4 hrs. at York. At Cambridge there were 5·8 hrs.

SEA

Still rough on our most N.ᵗʰ coasts, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of fine weather is probable in our Islands, with brisk N.ᴱʸ to NE.ᴱʸ winds.

FORECASTS

For the 24 hours ending at NOON on 9TH JULY 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	NW.ᴱʸ breezes, fresh to moderate; slight showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	N.ᴱʸ breezes moderate to light; fair.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	N.ᴱʸ or NW.ᴱʸ breezes, moderate; fine.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ..	29.82	54	51	NW	6	o	2
Sumburgh Head	29.85	54	52	WNW	5	b	5
Stornoway	30.14	56	53	NW	5	c	5
Aberdeen	30.08	64	56	NW	4	bcq	2
Shields	30.11	70	62	W	4	c	2
Ardrossan	30.19	61	59	W	6	b	3
Malin Head ...	30.28	57	55	NW	4	bc	3
Belmullet	30.34	60	59	W	1	bm	*
Holyhead	30.28	64	60	WNW	4	o	2
Valencia	30.40	61	60	WNW	1	ow	2
Scilly	30.36	64	61	WNW	3	b	0
Jersey	30.33	69	61	NNW	3	b	3
Hurst Castle ...	30.24	68	65	WSW	3	c	2
Dungeness ...	30.19	66	63	WSW	4	bc	3
North Foreland	30.19	75	65	W	3	bc	2
London (Westminster)	30.20	78	64	WNW	3	c	*
Yarmouth ...	30.13	69	63	WNW	4	bc	3
Rochefort ...	30.28	75	72	NE	3	bc	*

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

Weather in morning fine and bright over Spain & France; fair over central Germany & England, but cloudy at the more N^w. stations, and showery in several localities in the countries lying to the E^w. of the North Sea, as well as at Malin H^d. and in some parts of Italy. Rain falling later all over Germany and locally in several parts of Scandinavia and the NW. of our Islands, but remaining very bright at our SW^w. stations.

Temperature falling at our N^w. stations, rising in the S. and over France. Morning readings highest 81° at Patras, 78° at Brindisi, and exceeding 70° on the S^w. coasts of the Mediterranean; above 60° over the greater part of France, England and the E. of Ireland, as well as over Finland and the N. of Russia. Lowest 52° at Sumburgh H^d. and Skudenaes, 53° at Stornoway and Wick, and below 60° in Denmark and the greater part of N. Germany. Rising later to between 70° and 75° over England, but not reaching 70° over Ireland and Scotland as a whole, nor at the German stations.

Wind (1) NW. to W., fresh to moderate in force over N^w. and E^w. parts of our Islands, W. and SW. on the eastern shores of the North Sea, S. over the northern half of Sweden, and E. over the NW^w. parts of Norway; (2) anticyclonic over Spain, France and central Europe and of little force; (3) cyclonic and stronger over Italy and the Adriatic. No great change later.

Barometer 30.4 ins. to 30.2 ins. in an anticyclonic system spreading in from the Atlantic over W^w. to central Europe. Lowest below 29.6 ins. over the N^w. half of Norway; below 29.8 ins. over central Russia; 29.8 ins. to 29.9 ins. over the Adriatic, Italy and Dalmatia: Rising later in the N and NW. of our Islands, falling in the S. and on the Continent.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Saturday 9th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.96	55	2	0	b	30.06	+ .18	54	56	— 1	2	0	o	*	b	*	64	52	—
	Hernösand ...	30.01	55	2	0	b	30.10	+ .30	60	?	+ 3	N	4	b	*	b	*	?	?	?
	Stockholm ...	29.89	57	2	0	b	30.01	+ .25	59	57	— 3	N	4	c	*	b	*	68	50	—
	Wisby	29.93	56	NW	4	bc	29.96	+ .18	57	55	— 1	N	4	o	*	bc	*	61	48	—
	Karlstad ...	29.90	64	NNE	2	o	30.06	+ .33	59	55	+ 4	ENE	4	o	*	o	*	*	*	0.04
	Bodö	30.08	53	W	4	o	30.24	+ .41	52	49	— 1	WNW	4	o	1	o	*	55	46	—
	Christiansund ...	30.15	55	2	o	o	30.28	+ .34	55	53	— 1	N	3	o	2	o	*	61	54	—
	Skudesnaes ...	29.99	57	N	8	m	30.15	+ .28	59	55	+ 4	N	2	b	2	b,m	*	59	48	*
	Færder (Christiania Fjord)	29.81	62	NNE	4	b	30.08	+ .38	60	54	+ 1	NNE	5	c	2	b	*	62	57	0.24
	Skagen (The Scaw)	29.89	59	NNE	2	b	30.04	+ .34	59	57	0	NE	2	b	0	b	*	68	57	—
	Fanö	29.94	57	NW	4	b	30.00	+ .18	59	57	+ 5	NNW	3	b	*	b	*	63	54	0.04
British Islands.	Sumburgh Head	30.21	49	N	3	o	30.33	+ .23	51	48	+ 2	N	1	b	4	o	*	53	45	—
	Stornoway ...	30.33	60	SE	2	bc	30.35	+ .06	55	53	+ 3	2	o	c	o	c, bc	2.5	60	47	—
	Wick	30.35	55	NW	4	c	30.37	+ .15	54	50	+ 2	NW	2	o	1	c	*	58	43	—
	Nairn	30.31	60	NNE	1	b	30.37	+ .11	57	54	+ 2	2	o	b	1	b	*	65	37	—
	Aberdeen ...	30.29	55	NW	4	bc	30.35	+ .13	55	49	— 1	NW	2	b	2	bcq	12.6	63	46	—
	Leith	30.26	63	ESE	2	b	30.35	+ .11	61	54	+ 1	E	1	bc	*	b	*	71	49	—
	Shields	30.28	58	NNE	2	bc	30.35	+ .12	52	50	— 3	N	3	o	2	bc	*	59	46	—
	Spurn Head ...	30.24	55	N	5	bc	30.27	+ .08	53	52	— 3	N	5	o	4	bc	*	59	52	—
	York	30.26	62	N	1	c	30.32	+ .09	52	50	— 7	NW	1	o	*	c	7.3	67	46	—
	Loughborough ...	30.23	66	E	3	c	30.34	+ .11	52	49	— 10	NNW	2	ogmcw	*	cm, bm, o	*	72	41	—
	Ardrossan ...	30.27	60	WNW	3	b	30.33	+ .08	58	55	+ 2	W	1	cm	1	b	*	63	50	—
	Malin Head ...	30.33	55	NNW	3	b	30.35	+ .01	56	54	+ 2	NNW	2	b	1	b	*	56	52	—
	Belmullet ...	30.36	58	NE	2	b	30.36	— .02	60	57	+ 3	ENE	1	b	*	b	*	63	50	0.01
	Donaghadee ...	30.30	61	NNW	5	b	30.35	+ .05	58	56	+ 3	N	4	bc	2	b	*	62	50	—
	Liverpool (Bidston)	30.27	59	WNW	2	b	30.32	+ .06	61	53	+ 5	ESE	1	b	?	b	*	61	52	—
	Holyhead ...	30.30	55	N	2	b	30.31	.00	60	57	+ 5	NE	1	bm	1	bm	*	60	52	—
	Parsonstown ...	30.29	70	2	o	b	30.35	+ .02	59	55	+ 3	2	o	b	*	b	7.8	70	48	—
	Valencia ...	30.29	67	NNW	2	b	30.32	— .01	62	60	— 1	2	o	c	1	b	13.8	71	52	—
	Roche's Point ..	30.31	63	SSW	2	b	30.33	— .01	59	58	0	SE	1	f	1	b	*	66	55	—
	Pembroke (St. Ann's Hd.)	30.28	61	NE	4	b	30.28	— .01	60	55	+ 4	ENE	2	bm	2	b	12.0	62	52	—
	Scilly	30.25	60	NNE	4	bc	30.26	.00	65	61	+ 4	E	2	b	o	cm, bc	9.8	66	56	—
	Prawle Point ...	30.22	65	S	2	b	30.31	+ .06	59	57	— 9	ESE	2	b	1	b	*	70	55	—
	Jersey (St. Aubin's)	30.21	67	WNW	3	bm	30.28	+ .04	63	57	0	ENE	3	bm	3	bc, bm	*	72	56	—
	Hurst Castle ...	30.21	69	NE	2	bm	30.29	+ .08	60	56	— 5	NE	1	bm	1	bcm, bm	*	75	53	—
	Dungeness ...	30.20	60	NE	3	c	30.26	+ .12	55	53	— 5	NNW	3	c	2	c	*	65	47	—
	North Foreland	30.23	57	N	3	bc	30.26	+ .09	55	51	— 3	NW	3	o	2	bc	*	62	51	—
	London (Brixton) ...	30.22	67	N	2	bc	30.30	+ .10	55	51	— 7	N	3	o	*	o, b	6.7	71	51	—
	Oxford	30.24	62	ENE	1	bc	30.33	+ .11	54	50	— 5	NE	1	c	*	c, bc	*	70	47	—
	Cambridge ...	30.26	63	NNE	3	c	30.30	+ .09	54	52	— 2	N	2	o	*	c	7.2	66	48	—
	Yarmouth ...	30.21	58	NNW	5	c	30.23	+ .06	55	52	— 4	N	4	cg	4	bc, c	*	61	53	—
Germany & Holland.	Cuxhaven ...	29.91	58	NW	6	o	29.98	+ .07	59	57	+ 4	NNW	4	c	*	o	*	59	54	—
	Berlin	29.89	57	W	2	o	29.89	— .03	57	55	+ 2	NW	3	o	*	o	*	63	54	—
	Wiesbaden ...	*	*	*	*	*	30.08	+ .02	56	52	— 4	NW	2	c	*	*	*	68	59	—
	Munich... ..	30.06	55	W	2	b	30.08	+ .03	50	49	— 5	WNW	5	o	*	b	*	63	48	0.55
	The Helder ...	30.10	56	NNW	4	o	30.13	+ .04	57	54	0	N	3	o	2	o	*	57	54	0.04
Belgium.	Brussels ...	*	*	*	*	*	30.19	+ .05	56	52	— 3	WNW	4	o	*	o	*	68	50	0.04
	Cape Gris Nez...	?	56	E	4	bc	?	?	55	54	— 3	ENE	3	o	3	bc	*	64	52	—
	Paris	30.12	72	N	3	bc	30.22	+ .05	55	52	— 6	N	2	bc	*	bc	*	75	50	—
	Brest	30.15	68	NE	2	b	30.22	— .03	59	54	0	E	2	b	1	b	*	73	52	—
	Lorient... ...	30.15	70	NNE	3	b	30.20	— .04	59	54	0	E	4	bc	4	b	*	77	50	—
France &	Rochefort ...	30.08	69	WNW	4	b	30.10	— .07	63	60	+ 2	ENE	4	b	*	b	*	77	59	—
	Belfort	29.99	68	W	3	c	30.08	+ .01	53	50	— 7	NE	2	m	*	c	*	72	48	—
	Lyons														*		*			
	Nice	29.86	69	2	o	b	29.86	— .11	68	62	— 3	2	o	b	1	b	*	77	59	—
	Perpignan ...	29.98	82	NW	3	b	30.00	— .11	75	65	+ 2	NW	2	b	*	b	*	86	63	—
	Biarritz ...	30.06	72	2	o	b	30.02	— .11	66	64	+ 2	WSW	3	o	2	b	*	75	64	—
Peninsula.	Corunna ...																*			
	Lisbon	29.99	74	NW	4	b	29.95	— .08	75	65	— 2	SSE	3	b	*	b	*	84	70	—
	Azores (P. Delgada)	29.91	71	SSW	4	o	29.91	— .01	71	69	+ 1	SW	3	bc	3	o	*	75	68	0.04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 9.9 hrs;

WEATHER CHARTS

FOR Saturday, 9th July, 1898

BAROMETER, WIND AND SEA.

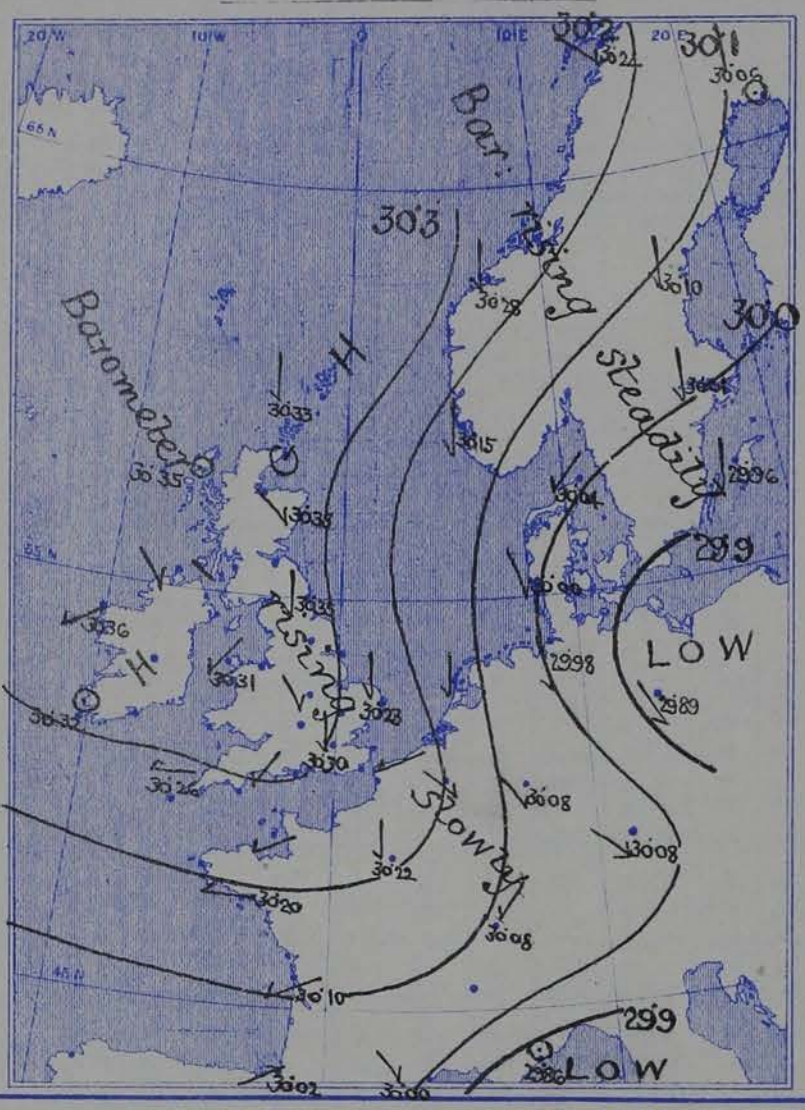
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⇉ ; *Force 5 to 7* → ; } Calm ⊙

Force 8 to 10 ↠ ; *Force 1 to 4* → ; }

SEA—Rough ≡ : *High* ▬

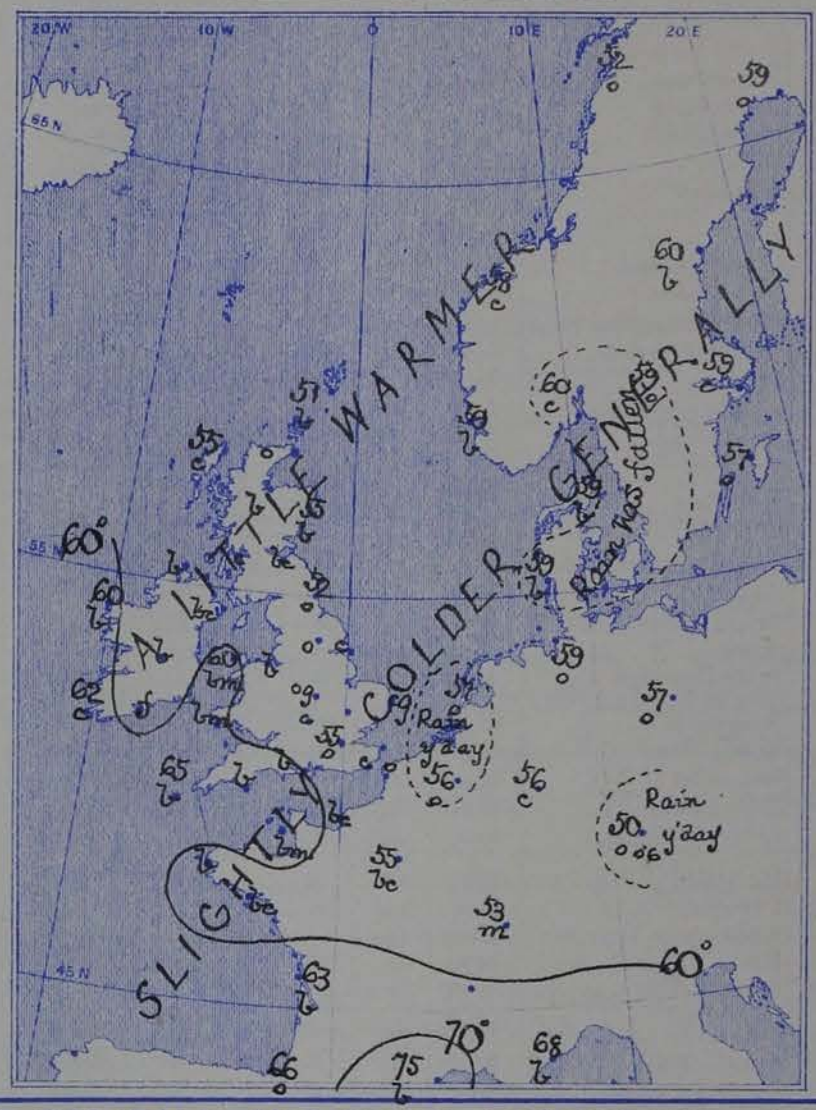


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1883	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.3 ins. and more over almost the whole of our Islands.
Lowest 29 ins. and less to 30.0 ins. over N. Germany, the Baltic and S. of Sweden.
Gradients very slight over our Islands generally, moderate over the North Sea and the Netherlands.
Barometer rising steadily over Scandinavia, slightly over the United Kingdom and France.

TEMPERATURE

Highest 75° at Perpignan, 68° at Nice, and 66° to 63° over other parts of France and the southern coasts of England and Ireland.
Lowest (1) 50° at Munich, 53° at Belfort, (2) 51° at Isenburgh Ht., 52° at Shields, York and Loughborough, 54° at Oxford, 55° at Paris.
The maxima recorded over our Islands yesterday scarcely exceeded 70° at any of our stations at Hurst Castle, however the maximum was 75, at Lorient & Rochefort 77, & 86° at Perpignan, but at Berlin only 63°.

WIND

Very light to calm over Scotland; N. 3/4 over England and the North Sea (rather fresh at the E. stations); NE. 3/4 to E. 3/4 over the Channel and Bay of Biscay; variable over Ireland.

WEATHER

Fair over England, but dull in the E. districts; very fine over Scotland, Ireland and the N. of France.
Rain has again fallen in S. Germany and at several of the stations lying to the E. of the North Sea. Bright Sunshine recorded yesterday amounted to between 14 hrs. and 8 hrs. over the SW. and S. parts of the Kingdom and to 12.6 hrs. at Aberdeen; at our NW. stations it was slighter.

SEA

Moderate on our N. and E. coasts, slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of fair dry weather is probable, but with cool air, and, often considerable cloud in the E.

FORECASTS

For the 24 hours ending at NOON on 10TH JULY 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Very light airs, fine generally.
1	SCOTLAND EAST	
2	ENGLAND N.E.	N. 3/4 breezes, moderate, fair, cloudy at times.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as Nos. 0 and 1.
7	ENGLAND N.W.	N. 3/4 and variable breezes, light, fine.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·91	59	55	N	6	b	2
Sumburgh Head	30·19	50	49	N	4	o	6
Stornoway	30·31	57	63	N	2	c	3
Aberdeen	30·25	62	52	NW	5	bcq	4
Shields	30·37	56	52	NE	2	bc	2
Ardrossan	30·25	62	57	WNW	4	b	2
Malin Head ...	30·34	56	52	NNW	3	b	2
Belmullet	30·37	60	51	NNE	1	b	*
Holyhead	30·31	58	54	N	3	b	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·31	69	63	ENE	1	b	2
Scilly	30·26	64	61	NNE	4	ow	1
Jersey	30·22	72	63	NNW	3	bc	3
Hurst Castle ...	30·24	74	66	NE	2	bcm	1
Dungeness ...	30·19	61	59	NNE	3	c	2
North Foreland	30·23	58	54	NNE	4	c	3
London (Westminster)	30·22	64	57	N	2	o	*
Yarmouth ...	30·21	61	54	NNW	4	bc	4
Rochefort ...	30·13	72	70	N	4	b	*

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

Weather in morning fine generally over the British Islands, France and Spain; cloudy, unsettled and very changeable over the Nrn, central and Emn parts of Europe, with rain in several parts of Austria, and a great deal of cloud in N. Germany. Rain falling later in many parts of Austria, Germany and Scandinavia; the largest amount being 0.6 in. at Munich.

Temperature falling over Wrn Europe generally, rising over Finland, and some parts of Srn and central Europe. Morning readings highest 81° at Constantinople, 80° at Patras, 78° at Barcelona; and above 70° at several of the Mediterranean stations, 68° at Prawle Pt. and above 60° over our Srn counties generally. Lowest 49° at Sumburgh Hd., 52° at Stornoway and Wick, 53° at Bodö, 55° at Nairn. Rising later to 70° or more in many parts of England, to 75° at Hurst Castle and Paris, to 77° at Lorient and Rochefort, and to more than 80° at Perpignan and Lisbon.

Wind (1) NW.ly to Nly over the western countries as a whole, and blowing very freshly in the north of our Islands and the SW. of Norway; (2) very light and variable over the eastern, southeastern and extreme southern countries. No decided change later.

Barometer (1) 30·3 ins. and more to 30·1 ins. over the British Islands, France and almost the whole of Spain; (2) exceeding 29·9 ins. over Finland and the N. of Russia. Lowest (1) 29.7 ins. to 29.8 ins. over Denmark, the Srn parts of Sweden, and the Baltic; (2) below 29.8 ins. over Asia Minor, Turkey in Europe and the Srn half of Russia. Rising later over Norway and the Nrn parts of the British Islands, falling slightly over France.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Sunday 10th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30·14	63	NNW	2	b	30·22	+ ·16	66	58	+ 7	N	2	b	#	b	#	73	50	—
	Hernösand ...	30·20	64	N	4	b	30·22	+ ·12	63	54	+ 3	NW	4	b	#	b	#	73	54	—
	Stockholm ...	30·08	59	N	4	c	30·06	+ ·05	66	59	+ 7	NNE	6	bc	#	c	#	66	54	—
	Wisby	30·00	57	NNE	4	c	29·94	— ·02	60	57	+ 3	N	6	b	#	c	#	61	52	004
	Karlstad ...	30·15	66	NNE	2	b	30·18	+ ·12	63	56	+ 4	N	2	b	#	b	#	#	#	—
	Bodö	30·32	56	2	0	bc	30·32	+ ·08	57	50	+ 5	S	2	bc	1	bc	#	59	45	—
	Christiansund ...	30·34	59	NE	2	b	30·32	+ ·04	55	54	0	N	1	b	1	b	#	59	52	—
	Skudesnaes ...	30·19	55	NNW	7	bc	30·26	+ ·11	57	56	— 2	NNW	4	b	2	b, bc	#	68	48	#
	Færder (Christiania Fjord)	30·15	64	N	2	c	30·21	+ ·13	63	56	+ 3	N	4	b	2	c	#	64	59	020
	Skagen (The Scaw)	30·15	60	NE	2	bc	30·16	+ ·12	62	58	+ 3	NNE	2	c	0	bc	#	72	59	—
	Fanö	30·13	58	N	2	b	30·13	+ ·13	60	58	+ 1	NE	4	b	#	b	#	68	55	004
British Islands.	Sumburgh Head	30·35	53	NW	1	0	30·36	+ ·03	53	53	+ 2	NW	2	0	3	b, 0	#	55	49	—
	Stornoway ...	30·35	63	E	2	bc	30·38	+ ·03	60	57	+ 5	NNW	3	c	3	b, bc	9·2	64	52	—
	Wick	30·37	60	2	0	c	30·38	+ ·01	60	59	+ 6	2	0	0	0	c	#	64	52	—
	Nairn	30·36	63	NE	1	bc	30·39	+ ·02	60	56	+ 3	W	1	c	1	bc	#	66	51	—
	Aberdeen ...	30·37	55	NE	2	bc	30·41	+ ·06	58	54	+ 3	N	1	0	1	eq, bc	14·0	63	48	—
	Leith	30·35	61	E	2	b	30·41	+ ·06	60	55	— 1	E	1	om	#	b	#	65	46	—
	Shields	30·36	55	N	3	bc	30·42	+ ·07	54	51	+ 2	N	3	c	3	bc	#	56	47	—
	Spurn Head ...	30·29	54	N	5	0	30·35	+ ·08	53	51	0	N	4	oq	4	oq	#	55	52	—
	York	30·33	59	N	2	b	30·40	+ ·08	56	51	+ 4	N	1	bc	#	o, b	7·6	62	49	—
	Loughborough ...	30·31	63	NE	3	b	30·39	+ ·05	52	49	0	NNE	2	0	#	om, c, b, o	#	65	51	—
	Ardrossan ...	30·29	61	2	0	bm	30·41	+ ·08	63	58	+ 5	2	0	bm	0	bm	#	66	52	—
	Malin Head ...	30·34	59	N	3	b	30·42	+ ·07	55	55	— 1	N	2	bf	1	b, f	#	60	54	—
	Belmullet ...	30·37	60	NNE	3	b	30·44	+ ·08	56	51	+ 6	ENE	1	b	#	b	#	66	51	—
	Donaghadee ...	30·36	63	N	3	b	30·42	+ ·07	60	57	+ 2	NNW	2	b	0	b	#	64	50	—
	Liverpool (Bidston)	30·30	65	NNW	2	b	30·40	+ ·08	58	51	— 3	E	1	b	1	b	#	68	49	—
	Holyhead ...	30·33	61	NNE	2	b	30·41	+ ·10	59	56	— 1	N	1	cw	0	bc, b	#	64	52	—
	Parsonstown ...	30·30	75	N	1	b	30·42	+ ·07	65	60	+ 6	E	1	b	#	b	13·3	75	50	—
	Valencia ...	30·32	66	W	1	b	30·41	+ ·09	63	59	+ 1	2	0	bm	1	bc, b	15·1	69	50	—
	Roche's Point ..	30·33	63	SSW	1	b	30·41	+ ·08	60	56	+ 1	NNE	1	b	1	b	#	66	54	—
	Pembroke (St. Ann's Hd.)	30·29	65	NE	2	b	30·37	+ ·09	63	58	+ 3	E	2	bm	1	b	13·7	67	54	—
	Scilly	30·29	64	SSE	1	b	? 30·34	+ ·08	62	60	— 3	SSE	1	omw	0	b	14·7	69	58	—
	Prawle Point ...	30·30	59	WSW	2	bc	30·36	+ ·05	56	53	— 3	ENE	3	c	2	b	#	64	51	—
	Jersey (St. Aubin's)	30·25	64	NE	3	bm	30·33	+ ·05	60	56	— 3	ENE	3	cm	3	bm	#	67	55	—
	Hurst Castle ...	30·28	61	SW	1	c	30·35	+ ·06	55	53	— 5	NNE	3	oq	2	bcm, cm	#	69	52	—
	Dungeness ...	30·26	60	N	2	c	30·30	+ ·04	56	55	+ 1	NNW	3	c	2	c	#	61	53	—
	North Foreland	30·27	57	NW	3	0	30·31	+ ·05	57	54	+ 2	NNW	4	0	3	0	#	58	53	—
	London (Brixton) ...	30·29	61	N	2	c	30·36	+ ·06	54	52	— 1	NE	2	oq	#	oq, 0	0·2	63	52	—
	Oxford	30·31	58	NE	2	b	30·39	+ ·06	52	50	— 2	NNE	2	0	#	b	#	66	49	—
	Cambridge ...	30·31	57	N	3	0	30·37	+ ·07	53	52	— 1	N	3	d	#	0	0·5	62	50	0·03
	Yarmouth ...	30·26	55	NNW	4	c	30·31	+ ·08	55	52	0	N	4	eq	4	eq, cd	#	59	52	0·02
Germany & Holland.	Cuxhaven ...	30·02	61	N	4	bc	30·08	+ ·10	59	58	0	N	2	0	#	bc	#	63	57	0·16
	Berlin	29·95	61	NNW	3	c	29·88	— ·01	60	55	+ 3	WNW	4	r	#	c	#	70	57	0·28
	Wiesbaden ...	*	*	*	*	*	30·13	+ ·05	61	56	+ 5	NW	2	c	#	*	#	63	55	—
	Munich... ..	30·13	52	SW	4	0	30·13	+ ·05	52	51	+ 2	W	4	r	#	0	#	59	50	0·12
	The Helder ...	30·16	57	N	2	c	30·20	+ ·07	56	54	— 1	N	2	c	2	c	#	59	54	—
Belgium.	Brussels ...	*	*	*	*	*	30·23	+ ·04	55	54	— 1	N	1	r	#	0	#	59	51	004
	Cape Gris Nez...	?	57	ENE	3	0	?	?	56	53	+ 1	ENE	4	0	3	0	#	59	54	—
	Paris	30·22	59	NNE	2	0	30·24	+ ·02	54	52	— 1	N	2	0	#	0	#	62	53	—
	Brest	30·23	67	ENE	3	b	30·32	+ ·10	55	52	— 4	NE	1	b	0	b	#	77	48	—
	Lorient... ...	30·19	69	NE	4	c	30·27	+ ·07	56	52	— 3	ENE	4	b	2	c	#	77	52	—
France &	Rochefort ...	30·08	73	ENE	4	bc	30·13	+ ·03	58	57	— 5	NNW	5	b	#	bc	#	84	54	—
	Belfort	30·10	55	NE	1	0	30·13	+ ·05	50	49	— 3	ESE	1	m	#	0	#	68	43	—
	Lyons	30·08	63	NNW	2	b	30·11	+ ·03	54	52	— 4	N	2	0	#	b	#	70	51	—
	Nice	29·91	67	S	1	c	29·93	+ ·07	66	63	— 2	ENE	1	bc	0	c	#	79	63	—
	Perpignan ...	29·91	83	NW	2	b	29·99	— ·01	70	62	— 5	S	1	b	#	b	#	87	58	—
	Biarritz	29·99	70	W	3	b	30·04	+ ·02	60	56	— 6	ENE	3	b	2	b	#	73	57	—
Peninsula.	Corunna ...																#			
	Lisbon	29·96	75	NNE	1	b	29·97	+ ·02	73	65	— 2	SSE	1	b	#	b	#	86	70	—
	Azores (P. Delgada)	29·98	71	SW	4	0	29·99	+ ·08	72	70	+ 1	2	0	bc	2	0	#	75	66	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 14·0 hrs;

WEATHER CHARTS

FOR Sunday, 10th July, 1898

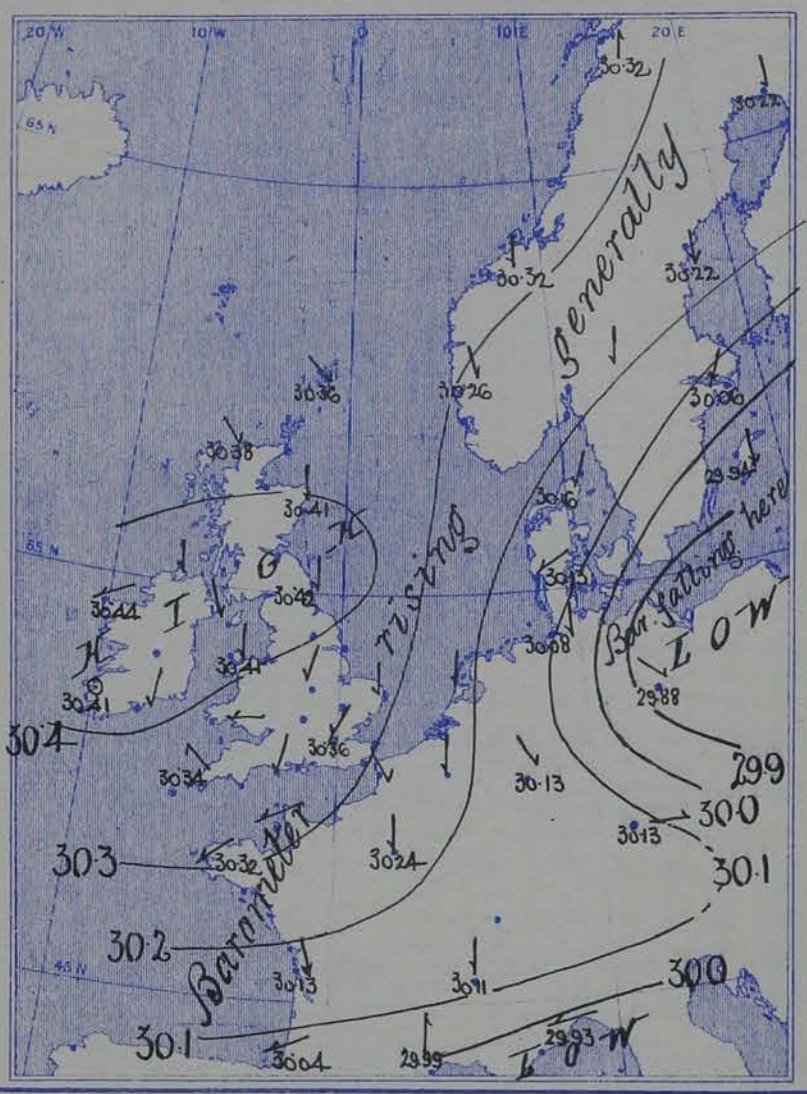
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ⟫⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

SEA—*Rough* ; *High*

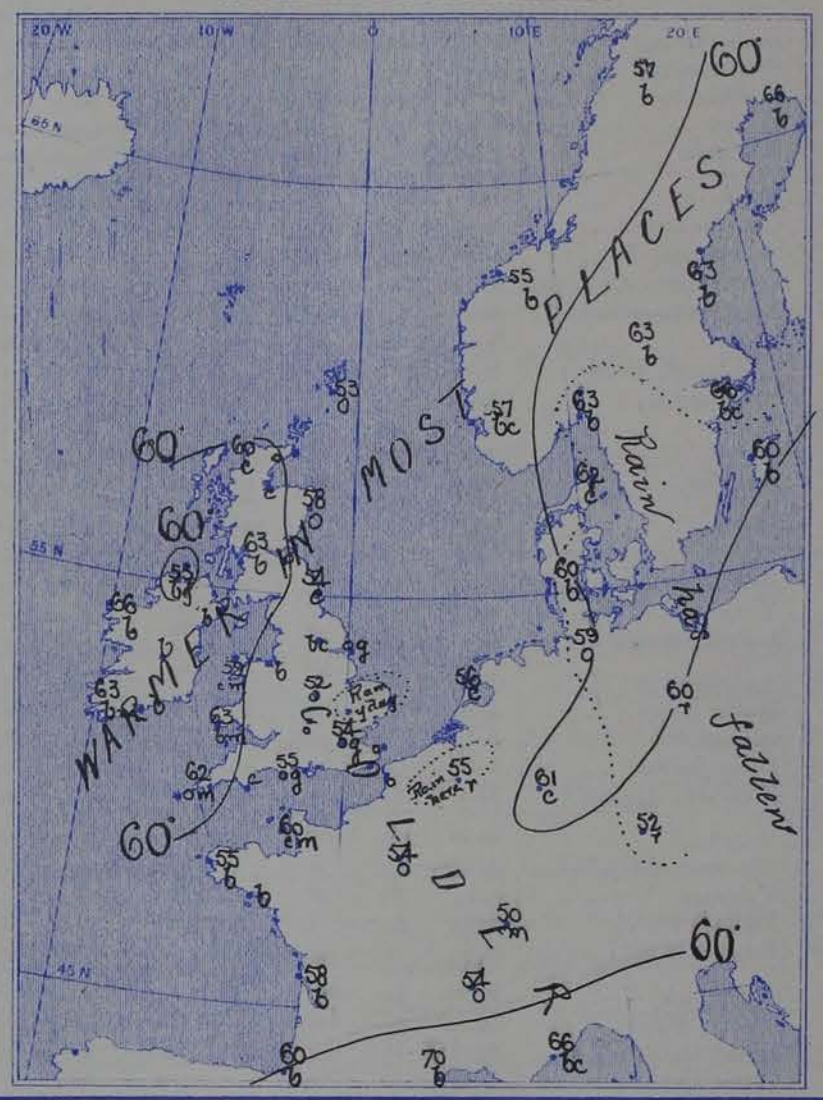


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest. 30·4 in: and more over Ireland and many of the northern parts of Great Britain, and exceeding 30·1 in: all over our Islands, France the North Sea Denmark, Norway the north of Sweden.
Lowest. Below 29·9 in: over North Germany and the southern part of the Baltic.
Gradients very slight over our Islands and France, moderate over the countries lying to the eastward of the North Sea
Barometer rising slightly at our eastern and northern stations, falling slightly over Germany.

TEMPERATURE

Highest (1) 66° at Blacksod Pt, 65° at Valentia and above 60° at most of our western and northwestern stations; (2) 66° to 60° over Sweden, 60° at Berlin
Lowest, (1) 52° to 56° over the greater part of England; (2) 50° at Belfast, 52° at Munich, 54° at Lyons and Paris.
The maxima recorded yesterday were 75° at Valentia, but below 70° at our other stations, 59° at Yarmouth; 62° at Paris, 70° at Berlin, 79° at Nice, 87° at Lemnos.

WIND

(1) Very light and anticyclonic over our Islands and their neighbourhood (NW and W in the north, NE and E in the south);
(2) Cyclonic, N over Scandinavia and the Baltic, NE at Paris, NW to W over Germany; (3) Very variable and light over Central France.

WEATHER

Very fine and bright over Ireland and the western parts of Wales, England, and France, as well as over Scandinavia, dull and gloomy over Germany and the eastern and southeastern parts of England, with rain at Munich, Berlin, and Brussels, and very slight drizzling showers over some of the eastern parts of England
Moderate falls of rain have been experienced locally over the countries lying to the eastward of the North Sea.
Bright Sunshine recorded yesterday, ranged from only 0·2 hr: in London and 0·5 hr: at Cambridge to 14·7 hrs at Scilly, and 15·1 hrs at Valencia.

SEA

Moderate along our east coasts; slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 11th July. 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH		6 SCOTLAND WEST	
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	NONE ISSUED	8 ENGLAND S.W.	NONE ISSUED
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·16	65	58	N	4	b	2
Sumburgh Head	30·34	54	52	N	2	b	4
Stornoway	30·35	61	57	S	2	b	2
Aberdeen	30·36	59	54	NE	2	cq	2
Shields	30·36	55	51	N	4	bc	3
Ardrossan	30·33	66	60	W	2	bm	1
Malin Head ...	30·36	59	56	N	2	b	1
Belmullet	30·36	64	59	NE	1	b	*
Holyhead	30·32	61	57	N	2	bc	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·32	66	62	W	2	bc	3
Scilly	30·28	67	62	SSE	1	b	0
Jersey	30·27	66	59	NNE	3	b	3
Hurst Castle ...	30·28	67	62	SSW	1	bcm	2
Dungeness ...	30·26	60	57	N	3	c	2
North Foreland	30·27	55	54	NW	3	o	2
London (Westminster)	30·30	61	52	N	2	o	*
Yarmouth ...	30·25	57	54	NNW	5	cq	4
Rochefort ...	30·11	81	75	ENE	4	b	*

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

Weather in morning fine over our Islands and Western Europe as a whole — bright at all the western stations, very dull over the east and southeast of England and the Netherlands: fine in Denmark, changeable over Central Europe, with rain in places. Rain falling later at the German and Baltic stations, and very small quantities in the extreme east of England, much cloud in the southeast of England and northeast of France, but fine weather in the west and north of the British Islands and in Norway.

Temperature in morning highest 78° at Barcelona, 77° at Palma and at Athens, and exceeding 70° at many of the Mediterranean and Adriatic stations and over Russia, 65° at Scilly, and 60° and more on our southwest coasts as a whole. Lowest (1) 51° at Sumburgh Head, 52° at Roche, 55° at Stornoway and Aberdeen, 52° at Shields, York, and Loughborough; (2) 50° at Munich, 53° at Belfort, 55° at Paris. Not touching 70° in any part of Great Britain later, but reaching 75° at Parsonstown, and 69° in several other western localities; 70° at Berlin and Lyons, 78° at Nice and 86° at Lisbon.

Wind calm or nearly so in Scotland, N. to E. over northwestern and western Europe as a whole, and light or moderate in force. N. and fresher over Germany, variable (cyclonic) but moderate over the Mediterranean. No decided change later.

Barometer highest 30·3 ins: and more to 30·4 ins: in an anticyclone spreading from the Atlantic all over our Islands, the northern half of France, the North Sea and Norway. Lowest 29·7 ins: and less, to 29·8 ins: over the southern half of Russia, and below 29·9 ins: over the northern parts of the Mediterranean. Gradients very slight over the United Kingdom and north of France. No change to note during day.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Monday 11th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30·15	65	Z	0	bc	30·14	−·08	65	58	− 1	SSE	2	bc	*	bc	*	75	52	—
	Hernosand ...	30·15	61	Z	0	b	30·06	−·16	68	58	+ 5	N	4	b	*	b	*	75	54	—
	Stockholm ...	30·02	63	N	4	b	29·96	−·10	67	59	+ 1	N	6	b	*	b	*	73	54	—
	Wisby	29·97	58	ENE	4	o	29·90	−·04	59	56	− 1	NNE	4	c	*	o	*	61	54	—
	Karlstad ...	30·09	67	N	2	b	30·08	−·10	65	57	+ 2	NW	4	b	*	b	*	*	*	—
	Bodo	30·28	57	Z	0	bc	30·13	−·19	55	52	− 2	SW	2	o	1	bc	*	61	50	—
	Christiansund ...	30·32	59	NNW	2	b	30·27	−·05	57	54	+ 2	WNW	2	o	2	b	*	61	54	—
	Skudesnaes ...	30·24	54	NNW	4	f	30·23	−·03	51	49	− 6	NNW	8	cf	4	f	*	63	46	*
	Faerder (Christiania Fjord)	30·12	68	NNW	1	b	30·11	−·10	64	59	+ 1	N	2	b	1	b	*	68	61	—
	Skagen (The Scaw)	30·12	66	NNE	2	b	30·10	−·06	63	61	+ 1	N	1	b	0	b	*	72	59	—
	Fano	30·14	61	N	4	b	30·12	−·01	58	57	− 2	NW	4	b	*	b	*	79	55	—
British Islands.	Sumburgh Head	30·35	53	NW	1	f	30·27	−·09	54	53	+ 1	WNW	1	o	3	f	*	58	50	—
	Stornoway ...	30·43	63	WNW	3	o	30·33	−·05	59	57	− 1	W	3	o	3	o	3·8	65	54	0·03
	Wick	30·43	64	N	1	bc	30·36	−·02	59	55	− 1	N	1	o	0	bc.p	*	65	53	0·05
	Nairn	30·39	61	E	1	c	30·37	−·02	62	56	+ 2	WSW	1	c	1	c	*	70	54	—
	Aberdeen ...	30·42	57	SE	1	bc	30·35	−·06	63	56	+ 5	W	1	c	1	bc	6·0	64	56	—
	Leith	30·35	70	SE	2	b	30·37	−·04	57	55	− 3	E	1	o	*	b	*	73	54	—
	Shields	30·39	61	NE	2	b	30·39	−·03	57	55	+ 3	NE	2	o	2	bc	*	63	52	—
	Spurn Head ...	30·35	57	N	4	b	30·36	+·01	59	55	+ 6	NNW	4	bv	4	o.bv	*	59	52	—
	York	30·39	64	N	2	c	30·40	·00	58	54	+ 2	Z	o	o	*	c.b	11·1	68	46	—
	Loughborough ...	30·36	66	N	2	bc	30·41	+·02	59	54	+ 7	N	1	bcmw	*	c.bc.bm	*	70	49	—
	Ardrossan ...	30·39	61	SSW	2	bm	30·39	−·02	62	56	− 1	W	3	b	2	bm	*	67	52	—
	Malin Head ...	30·45	59	NNE	2	b	30·43	+·01	56	56	+ 1	NW	3	ofw	2	b	*	60	55	—
	Belmullet ...	30·46	65	NE	2	b	30·50	+·06	57	55	− 9	NNE	1	o	*	b	*	72	50	—
	Donaghadee ...	30·42	64	NNE	2	b	30·43	+·01	62	58	+ 2	NW	3	c	1	b	*	65	51	—
	Liverpool (Bidston)	30·39	64	NW	1	b	30·40	·00	60	56	+ 2	WNW	2	b	2	bm	*	67	50	—
	Holyhead ...	30·42	59	N	2	b	30·43	+·02	61	59	+ 2	NW	2	bc	1	b	*	63	53	—
	Parsonstown ...	30·40	74	Z	0	bc	30·46	+·04	64	61	− 1	Z	0	b	*	bc	12·3	76	52	—
	Valencia ...	30·42	73	NNW	2	bcm	30·48	+·07	66	62	+ 3	Z	0	cw	1	bcm	15·2	73	52	—
	Roche's Point ...	30·42	69	S	1	b	30·48	+·07	62	58	+ 2	N	1	b	1	b	*	67	55	—
	Pembroke (St. Ann's Hd.)	30·37	63	NE	3	b	30·42	+·05	67	60	+ 4	W	1	bm	1	b	14·3	69	55	—
	Scilly	30·36	64	ESE	1	of	30·40	+·06	64	60	+ 2	NE	1	bc	0	of	9·8	66	58	—
	Prawle Point ...	30·39	55	ENE	2	bc	30·41	+·05	64	59	+ 8	NE	2	b	1	bc	*	65	49	—
	Jersey (St Aubin's)	30·34	62	NNE	3	cg	30·39	+·06	61	57	+ 1	NNE	3	bcm	3	cg	*	64	52	—
	Hurst Castle ...	30·36	61	NNE	2	cg	30·37	+·02	62	56	+ 7	NNE	2	bm	1	cg	*	63	47	—
	Dungeness ...	30·32	58	N	3	c	30·32	+·02	56	53	0	NNW	2	c	2	c	*	61	49	—
	North Foreland ...	30·33	57	NW	4	o	30·34	+·03	56	52	− 1	NW	4	o	3	o.c	*	58	52	—
	London (Brixton) ...	30·36	59	NE	2	bc	30·35	+·02	55	52	+ 1	NNE	3	cg	*	cg.o.b	0·1	60	44	—
	Oxford	30·37	57	NW	1	b	30·40	+·01	56	53	+ 4	N	3	o	*	o.b	*	61	44	—
	Cambridge ...	30·37	60	N	2	b	30·38	+·01	57	55	+ 4	N	1	o	*	b	4·3	61	45	—
	Yarmouth ...	30·31	56	NNW	3	c	30·31	·00	59	55	+ 4	N	4	c	4	c	*	59	52	—
Germany & Holland.	Cuxhaven ...	30·04	61	N	3	o	30·09	+·01	60	58	+ 1	N	4	c	*	o	*	63	59	0·04
	Berlin	29·84	59	NW	3	r	29·93	+·05	63	60	+ 3	NW	3	c	*	r	*	63	59	0·95
	Wiesbaden ...	*	*	*	*	*	30·10	−·03	58	56	− 3	NW	2	o	*	*	*	66	56	0·28
	Munich	30·13	55	W	2	b	30·12	−·01	57	53	+ 5	W	5	b	*	b	*	63	47	0·04
	The Helder ...	30·21	57	N	3	bc	30·21	+·01	58	55	+ 2	NNE	4	bc	2	bc	*	59	54	—
France & Belgium.	Brussels ...	*	*	*	*	*	30·26	+·03	53	52	− 2	NW	2	r	*	o	*	62	51	0·04
	Cape Gris Nez ...	?	56	ENE	4	o	?	?	56	52	0	NE	2	o	2	o	*	59	52	—
	Paris ...	30·24	61	NNE	3	o	30·29	+·05	54	50	0	NNW	4	bc	*	o	*	66	53	—
	Brest	30·31	64	NE	2	b	30·38	+·06	56	55	+ 1	NE	1	b	0	b	*	68	46	—
	Lorient	30·27	63	NE	4	bc	30·35	+·08	55	52	− 1	ENE	2	c	2	bc	*	68	52	—
	Rochefort ...	30·17	69	ENE	4	b	30·24	+·11	59	56	+ 1	ENE	3	b	*	b	*	77	55	—
	Belfort ...	30·08	58	NW	3	o	30·13	·00	54	53	+ 4	SSW	1	m	*	o	*	71	48	—
	Lyons ...	?	66	?	?	b	30·16	+·05	60	55	+ 6	NNW	3	c	*	b	*	72	54	—
	Nice	29·93	66	E	4	c	29·95	+·02	65	61	− 1	E	1	c	1	c	*	75	59	0·20
	Perpignan ...	29·99	78	NW	3	c	30·11	+·12	69	60	− 1	NW	2	b	*	c	*	84	63	—
	Biarritz ...	30·11	67	WNW	4	bc	30·17	+·13	59	54	− 1	NE	3	b	2	bc	*	70	55	—
Peninsula.	Corunna ...																*			
	Lisbon	29·97	74	N	2	b	29·99	+·02	72	64	− 1	NNE	2	b	*	b	*	88	66	—
	Azores (P. Delgada)	30·06	71	SSE	3	c	30·07	+·08	70	67	− 2	NE	2	o	2	c	*	79	68	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 11·5 hrs;

WEATHER CHARTS

FOR *Monday, 11th July,* 1898

BAROMETER, WIND AND SEA.

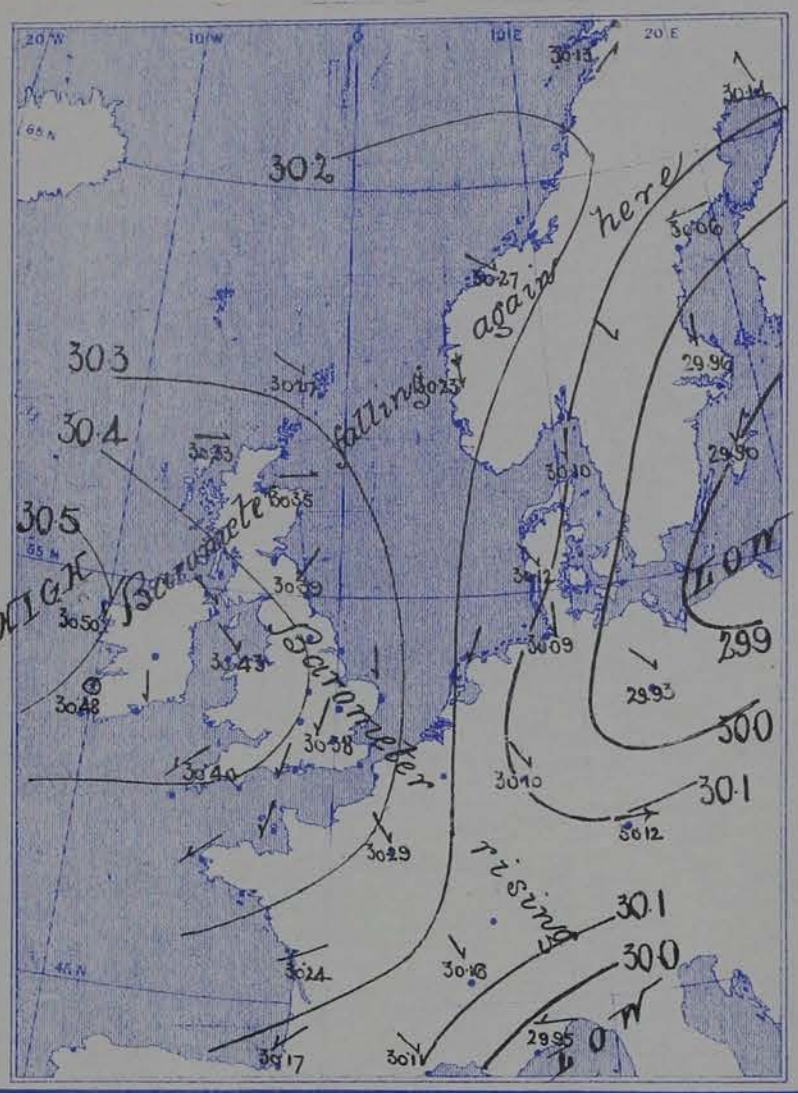
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ : *Force 5 to 7* ⟶ : } Calm ⊙

Force 8 to 10 ⟩⟶ : *Force 1 to 4* ⟶ : }

SEA—*Rough* ▤ : *High* ▨

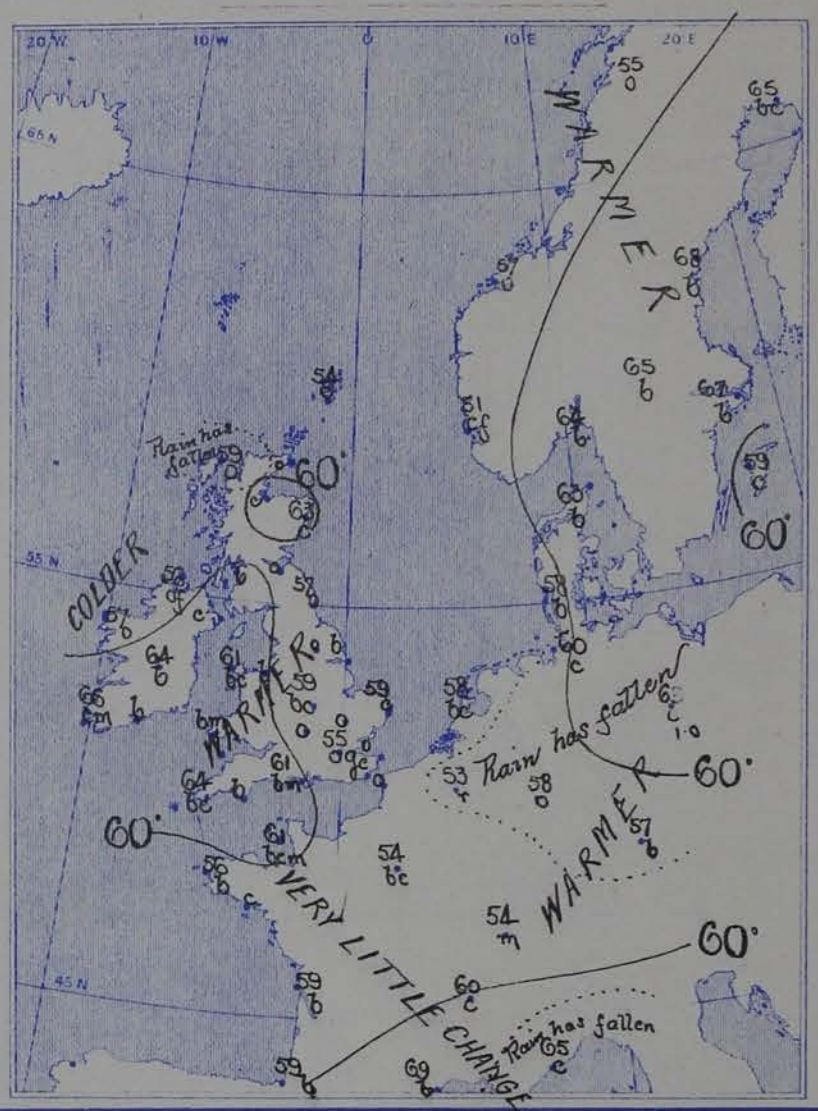


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30.5 inches in the west of Ireland and exceeding 30.3 inches over the British Islands generally, the Channel and the northern part of France.
Lowest 30.0 inches over Germany, the Baltic generally and the south of Sweden as well as over the Riviera and north of Italy.
Gradients were slight. Distribution was anticyclonic in our Islands, cyclonic over the Baltic and Germany.
Barometer was rising a little over France and the greater part of England, but had begun to fall both over Norway and Scotland.

TEMPERATURE — Highest (1) 69 at Pembroke, 66° at Valencia, 62 at Holtenau (2) 68° at Haparanda, 64° at Haparanda, 63° at the Skaw and Berlin, (3) 72° at Lisbon, 69° at Perpignan, 65° at Nice.
Lowest (1) 54° at Dunbeath Head, 56° at Malin Head, 54° at Balmullet and Leith, (2) 52° at Paris and Belfort, 55° at Lorient, 54° at Munich.
The maxima recorded in our Islands touched 76° at Parsonstown, and exceeded 70° at several of our western and northern stations, but were very little above 60° over our southern counties and touched only 58° at the N. Foreland and 59° at Yarmouth & Gibson Hut.

WIND — (1) W^ly., light to moderate at the Scotch stations, SW^ly. at Bodö.
(2) NW^ly. to N^ly., and light, over England and Ireland, N^ly. over the west of France.
(3) NW^ly. to W^ly. over Germany.
At our northern stations it was backing towards Southwest.

WEATHER — Gloomy over the south and southeast of England and over the North Sea; also in the north of Scotland and northwest of Ireland; fine and bright over our western districts and France, raining at Brussels.
A good deal of rain has fallen at Berlin and Wiesbaden and a small quantity in the north of Scotland.
Bright sunshine recorded yesterday was very slight in the south of England, considerable over our northern counties and as much as 10 to 15 hours over our southwestern districts.

SEA — Was moderate in the east and northeast, very slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new disturbance is apparently coming over Northern Europe from the Atlantic and will cause rain in several parts of Scotland; brighter weather is probable in the south and southeast of England.

FORECASTS

For the 24 hours ending at NOON on JULY 12TH 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Westerly and southwesterly winds; rain at times.
1	SCOTLAND EAST	Varying and Westerly airs; fine generally today, slight rain tomorrow.
2	ENGLAND N.E.	Same as No. 4.
3	ENGLAND EAST	Same as No. 5.
4	MIDLAND COUNTIES	Northerly and Northwesterly airs; fine, becoming warmer.
5	ENGLAND SOUTH	Northerly and Northwesterly breezes, light; fine, warmer.
6	SCOTLAND WEST	Same as No. 0.
7	ENGLAND N.W.	Same as No. 4.
8	ENGLAND S.W.	Northeasterly winds, light; fine.
9	IRELAND NORTH	Northwesterly and Northerly winds; fair generally, but some rain in the 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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·24	63	57	NNW	6	7	2
Sumburgh Head							
Stornoway	30·41	64	59	S	2	0	2
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·45	59	57	N	2	7	1
Belmullet							*
Holyhead							
Valencia							
Scilly							
Jersey	30·35	63	57	N	3	cm	3
Hurst Castle ...							
Dungeness ...	30·32	59	55	N	3	c	2
North Foreland	30·33	57	54	NW	4	0	3
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·16	69	66	ENE	5	c	*

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

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 3RD TO 9TH JULY 1898.

During this week anticyclonic conditions have prevailed almost continually over Western Europe, inclusive of the southwestern and western parts of the British Islands, and in these regions the weather has been dry and bright and temperature in some places rather high.

Over the northern countries, however, some depressions of little depth have appeared, their central parts passing southeastwards across Scandinavia and the Baltic to Central Europe, causing a good deal of rain from time to time in those regions.

Northerly winds have consequently been prevalent over the United Kingdom, and under the influence of very slight disturbances (secondary to those named above) they have occasionally blown very strongly over Scandinavia and Denmark, and very freshly on our eastern coasts, where large quantities of cloud have prevailed and kept the temperature much lower over the eastern and southeastern counties than in the west.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Tuesday 12th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.					Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.86	62	Z	0	b	29.66	−.48	64	58	− 1	S	2	b	*	b	*	72	54	—
	Hernösand ...	29.88	64	Z	0	b	29.76	−.30	64	56	− 4	E	4	be	*	b	*	79	50	—
	Stockholm ...	29.90	67	N	2	b	29.78	−.18	69	60	+ 2	N	2	b	*	b	*	75	54	—
	Wisby	29.91	58	N	4	b	29.83	−.07	60	59	+ 1	NW	4	b	*	b	*	64	54	—
	Karlstad ..	29.92	69	WSW	2	b	?29.74	−.29	64	59	− 1	SSW	2	b	*	b	*	*	*	—
	Bodö	29.84	55	SSW	4	o	29.59	−.54	54	53	− 1	SSW	4	r	2	o	*	59	46	—
	Christiansund ...	30.02	60	NW	4	o	29.75	−.52	55	54	− 2	WSW	2	r	4	o	*	61	55	0.04
	Skudesnaes ...	30.15	53	NW	4	o	29.80	−.43	54	54	+ 3	WSW	2	r	2	o	*	58	48	*
	Færder (Christiania Fjord)	29.93	67	WSW	2	b	29.80	−.31	66	62	+ 2	NNW	1	b	0	b	*	72	61	—
	Skagen (The Scaw)	30.02	63	WNW	2	b	29.86	−.24	62	58	− 1	W	2	b	0	b	*	73	54	—
	Fanö	30.11	56	NW	4	c	30.04	−.08	56	55	− 2	NW	4	o	*	c	*	70	55	—
	Sumburgh Head	30.13	53	WNW	3	o	29.82	−.45	52	52	− 2	W	3	r	4	o	*	59	48	0.03
	Stornoway ...	30.24	59	WNW	3	o	29.99	−.34	57	55	− 2	WNW	4	o	4	o	1.3	61	54	0.05
	Wick	30.23	62	NW	2	o	29.96	−.40	59	57	0	NW	3	o	1	o	*	67	54	—
	Nairn	30.23	67	NW	3	be	29.98	−.39	60	57	− 2	W	2	c	1	be	*	74	54	—
	Aberdeen ...	30.22	63	S	2	b	29.93	−.42	58	56	− 5	SE	1	om	1	b	9.8	68	54	—
British Islands.	Leith	30.25	66	W	3	b	30.07	−.30	65	58	+ 8	W	5	be	*	b	*	72	54	—
	Shields	30.28	60	SSE	3	c	30.12	−.27	60	56	+ 3	WSW	3	c	2	bm,c	*	64	52	—
	Spurn Head ...	30.30	58	SE	3	be	30.14	−.22	61	58	+ 2	W	4	c	4	be	*	66	55	—
	York	30.29	69	S	1	c	30.17	−.23	60	55	+ 2	W	2	o	*	c,b	5.5	71	50	—
	Loughborough ...	30.30	72	W	3	c	30.23	−.18	60	57	+ 1	W	3	o	*	be,c,b,o	*	77	53	—
	Ardrossan ...	30.31	61	W	3	o	30.13	−.26	59	56	− 3	SW	2	o	2	c,o	*	68	57	—
	Malin Head ...	30.37	58	W	3	om	30.17	−.26	57	57	+ 1	W	5	rf	4	c,om	*	61	56	0.02
	Belmullet ...	30.45	59	WNW	3	om	30.31	−.19	60	58	+ 3	WNW	3	o	3	c,om	*	62	55	0.02
	Donaghadee ...	30.37	58	WNW	3	o	30.21	−.22	65	60	+ 3	NW	3	c	2	o	*	67	57	—
	Liverpool (Bidston)	30.34	63	W	3	b	30.22	−.18	58	54	− 2	W	4	o	3	b	*	64	56	—
	Holyhead ...	30.36	61	SW	2	c	30.27	−.16	58	56	− 3	W	2	op	1	b,c	*	68	54	0.01
	Parsonstown ...	30.37	73	N	1	be	30.31	−.15	61	58	− 3	NNW	1	c	*	be	10.7	76	56	—
	Valencia ...	30.45	64	NNW	3	c	30.39	−.09	59	57	− 7	NNW	3	o	3	c	12.6	69	56	—
	Roche's Point ..	30.41	71	N	3	be	30.34	−.14	60	57	− 2	NNW	4	c	3	be	*	72	58	—
	Pembroke (St. Ann's Hd.)	30.39	66	NE	2	b	30.29	−.13	58	56	− 9	NNW	2	o	2	b	13.0	68	56	—
	Scilly	30.40	66	N	1	c	30.31	−.09	62	60	− 2	N	2	cw	0	be,c	14.0	67	59	—
	Prawle Point ...	30.38	68	SSE	3	be	30.28	−.13	61	58	− 3	WSW	3	b	2	be	*	67	54	—
	Jersey (St. Aubin's)	30.36	63	N	4	bm	30.31	−.08	64	58	+ 3	WNW	3	bm	3	be,bmw	*	66	53	—
	Hurst Castle ...	30.33	68	WSW	1	bcm	30.24	−.13	65	60	+ 3	Z	0	bcm	0	c,bcm	*	70	54	—
	Dungeness ...	30.31	60	ENE	2	be	30.23	−.09	61	51	+ 5	SW	2	b	1	be	*	67	56	—
	North Foreland	30.33	59	N	4	be	30.22	−.12	64	58	+ 8	W	3	b	1	b,be	*	64	50	—
	London (Brixton) ...	30.32	68	N	3	b	30.23	−.15	66	60	+ 11	WNW	1	b	*	og,be,b	37†	72	50	—
	Oxford	30.31	66	S	2	be	30.24	−.16	60	58	+ 4	Z	0	og	*	be	*	72	52	—
	Cambridge ...	30.32	64	NE	1	b	30.22	−.16	63	59	+ 6	W	1	o	*	b	7.5	71	49	—
	Yarmouth ...	30.30	62	N	4	be	30.17	−.14	61	57	+ 2	WSW	4	b	3	be	*	62	53	—
Germany & Holland.	Cuxhaven ...	30.10	59	NNW	4	c	30.10	+ .01	56	55	− 4	WNW	4	o	*	c	*	63	54	0.04
	Berlin	29.97	70	NW	2	c	30.02	+ .09	62	58	− 1	NW	4	be	*	c	*	75	58	—
	Wiesbaden ...	*	*	*	*	*	30.17	+ .07	56	53	− 2	NW	4	be	*	*	*	64	56	0.35
	Munich... ..	30.15	58	SW	2	c	30.17	+ .05	54	54	− 3	W	4	r	*	c	*	66	54	0.12
	The Helder ...	30.22	56	N	2	o	30.17	−.04	58	54	0	NW	1	o	1	o	*	61	54	—
Belgium.	Brussels ..	*	*	*	*	*	30.25	−.01	54	53	+ 1	WNW	1	o	*	o	*	64	51	0.04
	Cape Gris Nez ..	?	59	ENE	2	c	?	?	58	56	+ 2	SW	1	c	1	c	*	63	54	—
	Paris	30.25	66	N	3	be	30.28	−.01	54	52	0	NNW	2	m	*	be	*	68	52	—
	Brest	30.34	67	NE	2	b	30.29	−.09	56	55	0	WSW	1	b	0	b	*	70	48	—
	Lorient... ...	30.30	66	NE	4	b	30.32	−.03	56	55	+ 1	NE	3	b	2	b	*	75	50	—
France &	Rochefort ...	30.23	74	ENE	2	be	30.22	−.02	59	58	0	ENE	3	b	*	be	*	81	54	—
	Belfort	30.13	59	W	3	o	30.15	+ .02	54	54	0	WSW	1	f	*	o	*	62	53	0.04
	Lyons	30.23	58	N	3	o	30.19	+ .03	56	56	− 4	N	3	o	*	o	*	67	47	—
	Nice	29.98	63	E	3	c	29.99	+ .04	67	60	+ 2	Z	0	b	1	c	*	73	56	0.08
	Perpignan ...	30.08	80	NW	4	b	30.13	+ .02	70	60	+ 1	NW	1	b	*	b	*	79	59	—
	Biarritz ...	30.16	68	NNW	4	b	30.17	.00	62	60	+ 3	E	3	b	2	b	*	70	57	
Peninsula.	Corunna ...																*			
	Lisbon	30.01	72	Z	0	b	30.00	+ .05	68	64	− 4	S	2	m	*	b	*	81	63	—
	Azores (P. Delgada)	30.14	69	E	3	be	30.19	+ .12	69	63	− 1	ENE	3	be	3	be	*	77	66	—

For Explanation of Columns, see bottom of last page †. The corresponding value in yesterday's report should have been 0.4

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

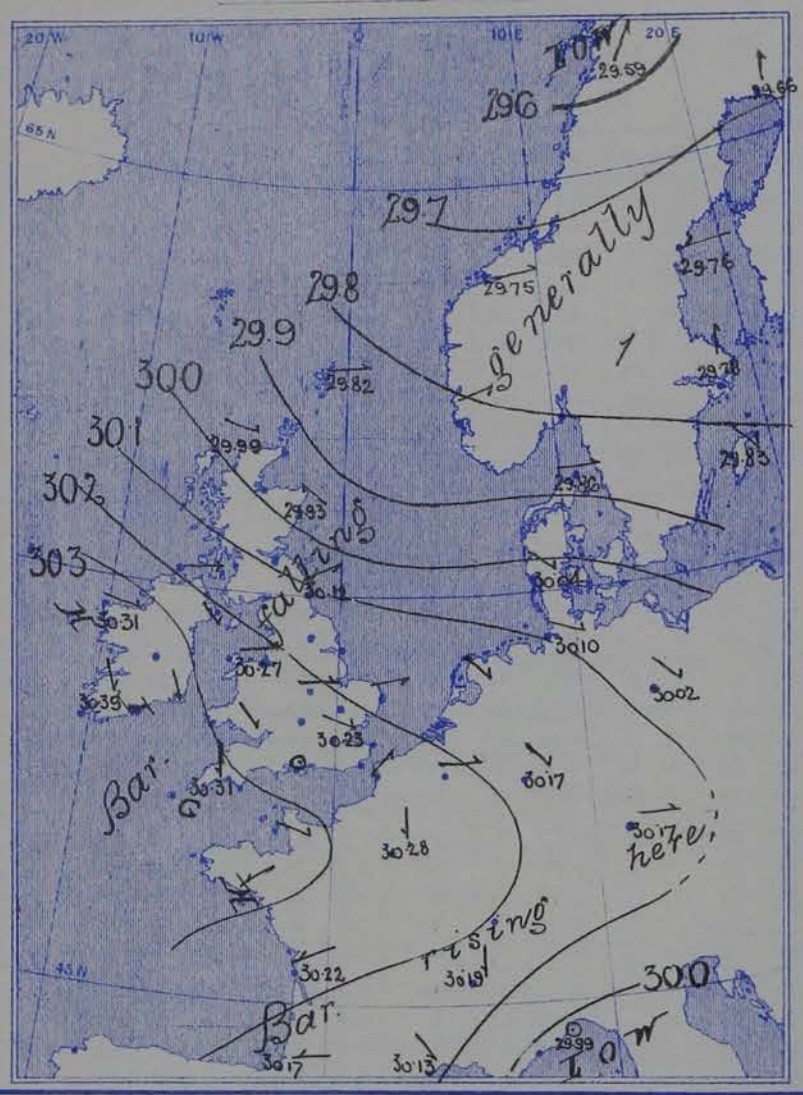
Bright Sunshine yesterday Southport 12.7 hrs;

WEATHER CHARTS

FOR Tuesday, 12th July, 1898

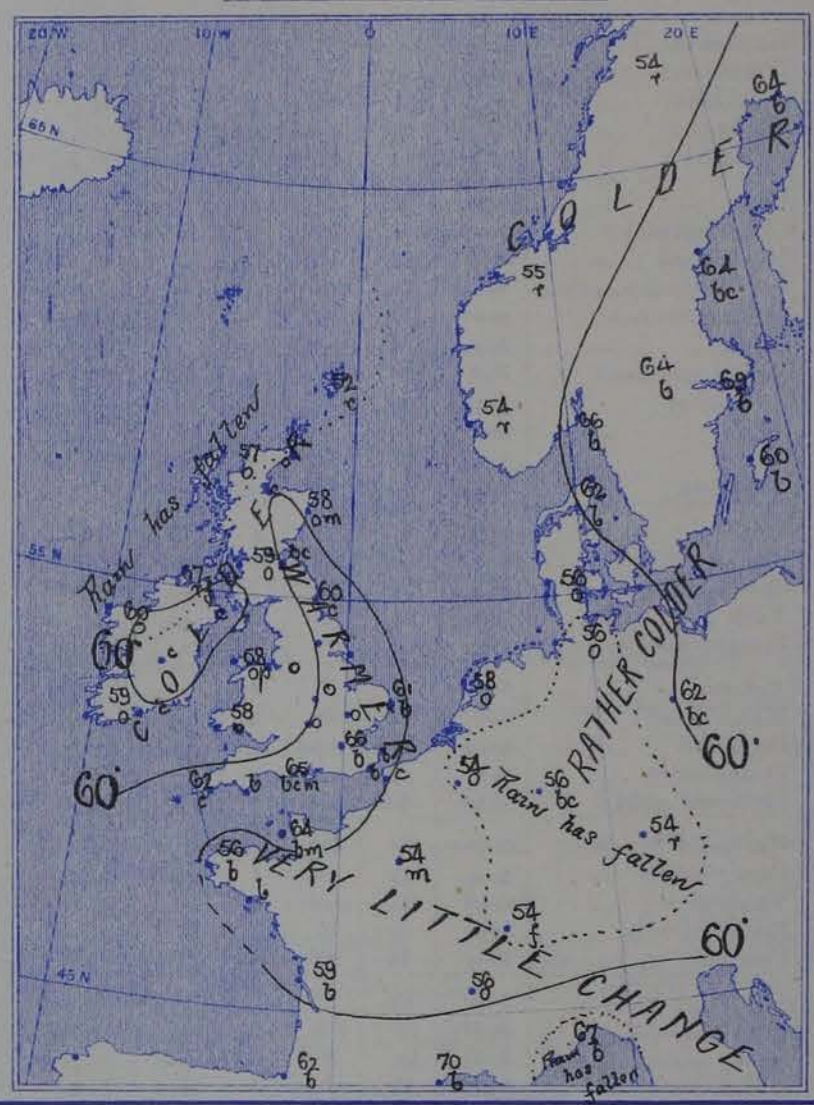
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ⟶⟶ ; Force 5 to 7 ⟶ ; Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; Calm ⊙
SEA—Rough ▤ : High ▩



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·3 inches and upwards over the Northwest of France and the southern parts of Ireland; 30·1 inches and upwards in an anticyclone covering the whole of Ireland, England, France and the Netherlands, as well as the western parts of Germany.
Lowest 29·6 inches and less in a depression lying over the northern parts of the Norwegian coasts.
Gradients slight. Barometer falling at all but the French and German stations, – most in the north.

TEMPERATURE

Highest (1) 70° at Perpignan and 69° at Nice; (2) 66° in London and 65° at Leith and Hurst Castle; (3) 66° at Frankley and 62° at the Skaw.
Lowest (1) 52° at Dunbeath Head and 54° at Bodö and Skudesnaes; (2) 52° at Brussels, Paris, Belfort and Munich.
During yesterday the thermometer rose to 70° and upwards in many parts of the United Kingdom, to 76° at Patonstown and to 77° at Loughborough.

WIND

Light to moderate from the Westward or Northwestward over our Islands, the Netherlands, Denmark and Germany, and from the Southwestward in the west of Norway.
Light from the Northward or Northeastward in France.

WEATHER

Fine in the east and south of England and also in France and many parts of Denmark and Germany.
Cloudy or dull elsewhere, with rain in the Shetlands and west of Norway as well as at Malin Head, and passing showers at Holyhead; rain was also falling at Munich.
Since yesterday morning a little rain has fallen on our extreme north and northwest coasts and also at some of the French and German stations.

SEA

Moderate on several parts of our northern coasts, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north is spreading southwards, and over our Islands there are some indications of the formation of small secondary systems shortly over a considerable portion of the United Kingdom.

Showery weather seems likely to set in

FORECASTS

For the 24 hours ending at NOON on JULY 13TH 1893

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Northwesterly winds, moderate; cloudy, some rain. Cooler.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No. 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	Westerly winds, light or moderate; cloudy, some showers. Thunder locally.
6	SCOTLAND WEST	Westerly to Northwesterly winds, moderate or fresh; dull, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Northwesterly winds, light or moderate; cloudy, some showers; possibly thunder.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·21	58°	53	NNW	6	c	3
Sumburgh Head	30·20	56	54	WNW	3	o	3
Stornoway	30·29	61	57	WNW	3	c	3
Aberdeen	30·29	68	59	S	2	b	1
Shields	30·30	61	57	E	2	bm	2
Ardrossan	30·36	66	64	W	4	c	2
Malin Head ...	30·40	61	58	NW	4	c	2
Belmullet	30·47	60	58	WNW	3	c	*
Holyhead	30·42	65	59	WNW	2	b	1
Valencia	30·47	68	63	NNW	4	c	4
Scilly	30·41	66	60	NE	1	bc	0
Jersey	30·39	65	58	NNE	4	bc	3
Hurst Castle ...	30·37	66	60	NE	2	c	1
Dungeness ...	30·33	65	59	NNE	2	bc	2
North Foreland	30·34	62	58	N	3	b	3
London (Westminster)	30·34	67	58	N	2	c	*
Yarmouth ...	30·32	62	59	N	5	bc	4
Rochefort ...	30·25	75	71	ENE	3	o	*

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

Weather in morning fine over Western and Southern Europe generally, but dull over the southeastern parts of England, as well as on our extreme north and northwest coasts and in the west of Norway. Dull over Germany and the western and northern parts of Russia, with rain in several places; rain falling also at Leghorn. Showers falling later in the eastern north and northwest of our Islands, as well as in several parts of France and Germany, but they clearing in the southeast of England.

Temperature changed very irregularly: Morning readings highest 82° at Brindisi, 79° at Arenale, 77° at Constantinople and 75° at Trieste; above 70° in many parts of Southern Europe and above 65° in Sweden. Lowest (1) 51° at Skudenaes, 54° at Sumburgh Head and 55° at Bodö; (2) 53° at Brussels, 54° at Paris and Belfort and 55° in London. Rising during day to 70° and upwards in many parts of the United Kingdom and France, to 77° at Loughborough and to 79° at Perpignan; reaching 81° at Lisbon.

Wind light from the Westward in Scotland, from the Northwestward over the northern parts of Ireland and England, and from the Northeastward over the south of England, the west of France and the Spanish Peninsula. Moderate to strong from the Northward over Finland, Denmark, North Germany and the southern parts of Scandinavia with a gale at Skudenaes; Westerly over Southern Germany and Austria; Southwesterly in the south of Russia. Variable over Italy and the Mediterranean. Subsequently backing to the West in the north of Ireland and shifting to the South in the northeastern parts of Great Britain.

Barometer highest 30·50 inches and upwards in an area lying off the west of Ireland; 30.2 inches and upwards in an anticyclone covering the greater part of Western Europe. Lowest 29.4 inches and less in a large depression over the Central parts of Russia; 29.9 inches and less in a small disturbance over the Gulf of Genoa. Anticyclone beginning to recede southwestwards during day and barometer falling over all the more northern parts of 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Wednesday 13th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.46	61	SW	0	c	29.36	−.30	63	57	−1	NE	2	c	*	c	*	70	48	—
	Hernösand ...	29.48	60	SW	0	0	29.41	−.35	58	52	−6	N	6	0	*	0	*	68	55	0.04
	Stockholm ...	29.54	70	SW	0	b	29.42	−.36	68	61	−1	WSW	4	c	*	b	*	81	57	—
	Wisby	29.61	65	S	4	c	29.51	−.32	59	56	−1	WNW	4	b	*	c	*	75	54	—
	Karlstad ...	29.56	67	W	2	bc	29.44	−.35	62	58	−2	SSW	4	c	*	bc	*	*	*	—
	Bodö	29.48	51	W	4	c	29.48	−.11	54	47	0	SW	0	0	0	c	*	55	46	0.16
	Christiansund ...	29.67	51	W	3	r	29.62	+.13	51	47	−4	WNW	3	c	3	r	*	57	48	0.32
	Skudesnaes ...	29.76	53	W	4	0	29.62	−.18	51	48	−3	NNW	6	c	2	r,0	*	56	48	*
	Færder (Christiania Fjord)	29.62	65	NW	3	bc	29.43	−.37	62	56	−4	NW	1	b	3	bc	*	68	59	—
	Skagen (The Scaw)	29.71	59	WNW	6	0	29.50	−.36	57	52	−5	W	4	c	1	0	*	66	54	—
	Fanö	29.87	57	WSW	6	c	29.65	−.39	55	52	−1	WSW	4	0	*	c	*	63	55	—
British Islands.	Sumburgh Head	29.79	49	NW	3	c	29.81	−.01	50	47	−2	NW	3	b	4	c	*	54	45	0.01
	Stornoway ...	29.98	55	NW	5	0	29.95	−.04	53	49	−4	N	4	c	4	c,0	5.5	58	47	0.03
	Wick	29.94	49	NW	4	0	29.91	−.05	50	47	−9	NW	4	0	2	0	*	61	47	0.03
	Nairn	29.94	60	NNW	2	bc	29.92	−.06	53	50	−7	WNW	2	c	2	bc	*	71	48	—
	Aberdeen ...	29.89	61	NNW	2	c	29.88	−.05	51	49	−7	NW	2	ogq	1	c	4.7	70	50	0.01
	Leith	29.93	63	W	3	b	29.89	−.18	58	52	−7	WNW	1	bc	*	b	*	68	51	—
	Shields	29.94	65	W	3	c	29.85	−.27	54	51	−6	WNW	3	op	2	c	*	72	51	—
	Spurn Head ...	29.97	63	W	4	c	29.83	−.31	56	55	−5	NW	4	0	3	c,0	*	68	55	—
	York	30.02	60	W	3	0	29.87	−.30	56	52	−4	NNW	3	0	*	b,0	5.0	?62	53	—
	Loughborough ...	30.07	64	W	3	c	29.90	−.33	56	52	−4	WNW	2	c	*	0,c,0	*	71	55	—
	Ardrossan ...	30.02	57	W	6	om	29.93	−.20	57	54	−2	WNW	3	c	2	om	*	63	53	—
	Malin Head ...	30.11	56	W	5	om	29.98	−.19	54	53	−3	NNW	5	cmp	3	c,om	*	58	53	0.04
	Belmullet ...	30.23	60	WNW	1	c	30.10	−.21	58	57	−2	NNW	4	0	*	0,c	*	62	55	0.02
	Donaghadee ...	30.08	61	NW	5	c	29.98	−.23	55	53	−10	NW	4	c	2	c	*	67	54	—
	Liverpool (Bidston)	30.08	61	W	5	0	29.92	−.30	57	53	−1	W	6	0	5	om	*	62	54	—
	Holyhead ...	30.12	61	SW	2	c	29.98	−.29	57	55	−1	W	3	op	2	om,c	*	68	54	0.03
	Parsonstown ...	30.17	67	W	2	c	30.05	−.26	60	58	−1	NW	2	o	*	c	5.3	68	53	—
	Valencia ...	30.30	61	NW	4	om	30.14	−.25	60	59	+1	NW	4	og	4	om	1.5	63	51	0.03
	Roche's Point ..	30.29	66	NNW	4	c	30.09	−.25	62	59	+2	NW	4	o	3	c	*	68	59	—
	Pembroke (St. Ann's Hd.)	30.17	60	WNW	3	c	30.03	−.26	57	54	−1	NW	4	c	3	c	4.8	63	56	—
	Scilly	30.25	63	NW	3	c	30.09	−.22	62	59	0	NW	5	c	2	c	12.1	66	58	—
	Prawle Point ...	30.18	65	WNW	3	c	29.99	−.29	63	58	+2	WNW	3	c	2	c	*	74	54	—
	Jersey (St. Aubin's)	30.20	65	W	5	bcm	30.01	−.30	63	61	−1	W	5	cgm	4	c,bcm,om	*	69	58	—
	Hurst Castle ...	30.10	70	WNW	3	cm	29.94	−.30	62	57	−3	WNW	3	og	1	cm	*	73	57	—
	Dungeness ...	30.06	63	SW	4	bc	29.87	−.36	61	58	0	WNW	3	c	2	bc	*	67	58	—
	North Foreland	30.06	65	SW	0	c	29.86	−.36	59	55	−5	W	4	c	3	bc,c	*	73	55	—
	London (Brixton) ...	30.07	71	WNW	2	bc	29.91	−.32	59	54	−7	W	3	0	*	bc,c	4.5	76	58	—
	Oxford	30.07	65	W	2	c	29.94	−.30	57	52	−3	NW	2	or	*	c,bc	*	71	56	—
	Cambridge ...	30.05	68	WNW	2	0	29.88	−.34	58	53	−5	WNW	3	0	*	c,0	5.2	70	55	—
	Yarmouth ...	30.02	66	W	3	b	29.80	−.37	56	55	−5	NW	3	c	3	b	*	68	54	—
Germany & Holland.	Cuxhaven ...	29.99	57	W	4	bc	29.70	−.40	57	56	+1	SW	2	r	*	bc	*	59	55	0.08
	Berlin	29.97	60	WNW	3	0	29.79	−.23	58	55	−*	WSW	3	0	*	0	*	66	56	—
	Wiesbaden ...	*	*	*	*	*	29.91	−.26	58	56	+2	N	1	c	*	*	*	68	53	—
	Munich	30.13	59	W	3	0	30.02	−.15	59	56	+5	W	4	c	*	0	*	61	54	0.16
	The Helder ...	30.00	59	SW	2	bc	29.73	−.44	58	56	0	WNW	2	0	2	bc	*	64	57	—
France & Belgium.	Brussels ...	*	*	*	*	*	29.85	−.40	58	57	+4	SSW	1	0	*	0	*	70	53	—
	Cape Gris Nez ...	?	62	WSW	2	bc	?	?	59	56	+1	WNW	4	0	4	bc	*	66	57	—
	Paris	30.18	68	S	2	0	29.99	−.29	59	56	+5	W	2	0	*	0	*	72	55	—
	Brest	30.25	63	N	2	b	30.15	−.14	59	59	+3	NW	1	0	1	b	*	70	54	—
	Lorient	30.21	64	WNW	4	bc	30.12	−.20	60	59	+4	WNW	4	0	4	bc	*	77	52	—
	Rochefort ...	30.17	67	NNW	4	bc	30.09	−.13	64	63	+5	NW	2	c	*	bc	*	75	59	—
	Belfort	30.08	66	W	4	m	30.01	−.14	57	54	+3	W	1	m	*	m	*	68	50	0.04
	Lyons	30.12	67	NNE	1	bc	30.06	−.13	62	57	+6	NNW	1	b	*	bc	*	70	52	—
	Nice	29.96	69	SW	0	b	29.92	−.07	68	63	+1	SW	0	b	0	b	*	75	63	—
	Perpignan ...	30.06	79	NW	3	b	30.06	−.07	73	62	+3	NW	2	b	*	b	*	82	68	—
	Biarritz ...	30.15	69	NNW	3	b	30.13	−.04	66	63	+4	NW	3	0	2	b	*	72	62	—
Penin-sula.	Corunna ...																*			
	Lisbon	30.02	74	SSW	1	b	29.99	−.05	76	66	+8	NE	3	b	*	b	*	79	68	—
	Azores (P. Delgada)	30.28	68	NE	4	0	30.27	+.08	68	63	−1	ENE	3	bc	2	0	*	75	63	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 1.6 hrs;

WEATHER CHARTS

FOR Wednesday, 13th July, 1898

BAROMETER, WIND AND SEA.

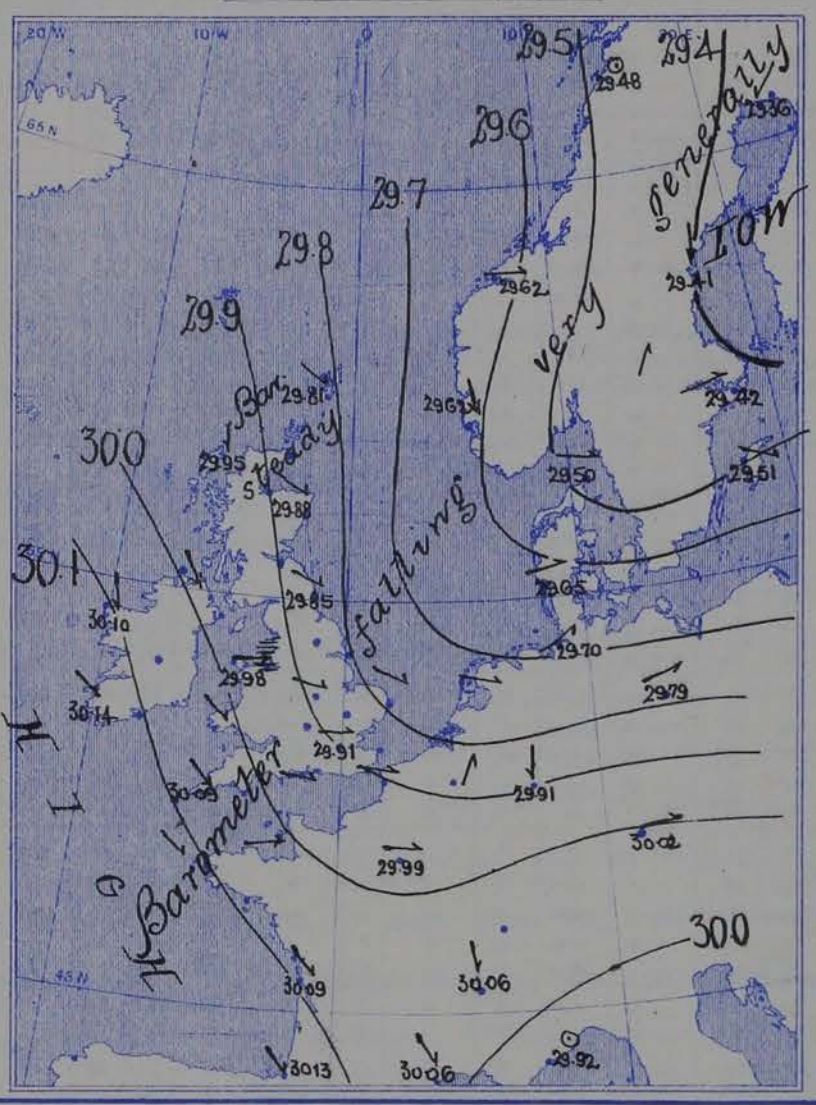
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; Force 5 to 7 ; } Calm ⊙

Force 8 to 10 ; Force 1 to 4 ; }

SEA—Rough ; High

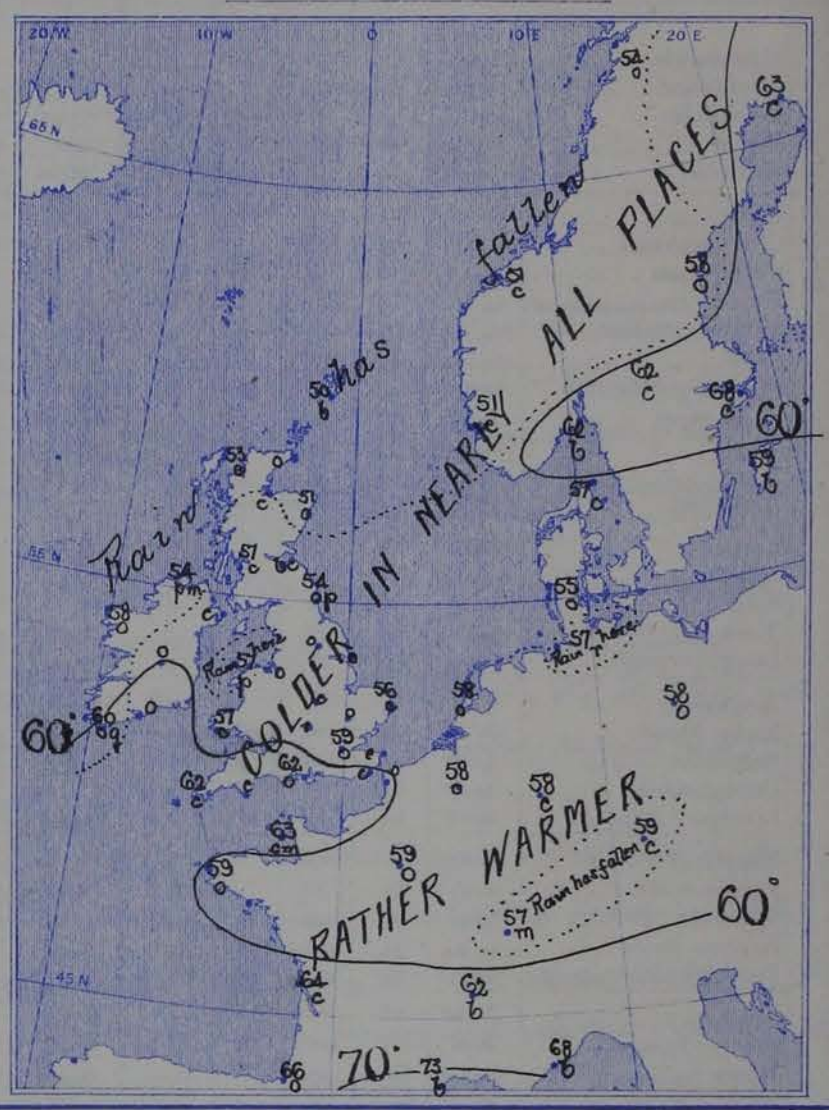


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 inches and upwards in a large anticyclone lying to the southwestward of our Islands.
Lowest 29.4 inches and less in a depression over the Gulf of Bothnia
Gradients slight. Barometer falling in most parts of our area, but steady at some of our more N^ly & E^ly stations.

TEMPERATURE

Highest (1) 76° at Lisbon, 75° at Perpignan, 68° at Nice and 66° at Biarritz; (2) 68° at Stockholm; highest in our Islands 63° at Prawle Point and Jersey.
Lowest 50° at Limburgh 26th and Wick, 51° at Christiansund, Skudenaes and Aberdeen, and 53° at Stornoway and Nairn.
During yesterday the thermometer rose to 70° and upwards in many parts of G^t Britain and to 76° in London.

WIND

Light to fresh from the Northwestward over the greater part of our Islands, and also in the west of France, but Westerly in the Southeast of England.
Light to moderate from the Westward or Southwestward over the Netherlands, Germany, Denmark and the south of Sweden. Northerly in the south of Norway, and also in the Gulf of Bothnia.

WEATHER

Cloudy or dull over W^n Europe as a whole, with showers in several parts of the United Kingdom, and steady rain at Cuxhaven.
Fine and bright in the south of France.
Slight rain fell yesterday at several of our more western and northern stations, and larger quantities in some parts of Germany and Scandinavia.

SEA

Moderate to smooth generally, but rather rough at Liverpool.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday morning off the Norwegian coasts is travelling southeastwards across the northern parts of Scandinavia, and small secondary systems are moving in a similar direction across our Islands. Cool showery weather seems likely to prevail for a time over the greater part of the United Kingdom.

FORECASTS

For the 24 hours ending at NOON on JULY 14TH 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Northerly and Northwesterly winds, moderate; cool, changeable, some showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No. 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	Northwesterly winds, moderate; changeable, some showers.
6	SCOTLAND WEST	Northwesterly winds, fresh; cool, changeable, some showers.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.89	56	55	WSW	2	r	2
Sumburgh Head	29.80	52	51	WNW	2	c	4
Stornoway	29.98	58	55	NW	5	c	5
Aberdeen	29.89	66	58	SE	1	c	1
Shields	29.98	69	63	WSW	5	c	3
Ardrossan	30.04	63	60	W	4	o	3
Malin Head ...	30.13	56	55	W	4	c	4
Belmullet	30.26	61	57	WNW	3	o	*
Holyhead	30.19	62	58	SW	2	om	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.34	60	59	WNW	3	om	4
Scilly	30.29	66	62	NW	3	c	1
Jersey	30.25	69	61	W	4	cm	3
Hurst Castle ...	30.15	68	63	SW	2	cm	1
Dungeness ...	30.14	65	60	SW	3	bc	2
North Foreland	30.13	71	62	W	3	bc	2
London (Westminster)	30.11	75	64	WNW	1	c	*
Yarmouth ...	30.09	67	60	WNW	3	b	3
Rochefort ...	30.21	73	69	NNW	4	b	*

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

Weather in morning fine in the east and south of England, and also over the greater parts of the Continent, but dull over South Germany, Austria and Russia, with rain in several places. Cloudy or dull in the west and north of our Islands generally, with rain at Malin Head and Sumburgh Head, as well as on the west coast of Norway. Showers falling later at several of our own western and northern stations, and larger quantities of rain in some parts of Germany and Scandinavia.

Temperature rose over the eastern parts of England, changed very irregularly elsewhere. Morning readings highest 79° at Constantinople, 78° at Brindisi, and 75° at Barcelona, Palermo and Malta; above 65° in London and also in several parts of Northern Europe, and touching 70° at Ulleaborg. Lowest (1) 52° at Sumburgh Head and 54° at Bodö and Skudesnaes, (2) 54° at Brussels, Paris, Belfort and Munich. Rising during day to 70° and upwards in many parts of Great Britain and France, to 76° in London and to 82° at Perpignan; reaching 81° at Stockholm.

Wind light to moderate from the Westward or Northwestward over our Islands and the more central parts of the Continent, but Southwesterly in the west of Norway. Northerly or Northeasterly over the greater part of France; variable over Italy and the Spanish Peninsula. Northeasterly or Northerly over Finland and the Baltic Provinces, but Southerly over the Central and Southern parts of Russia. No important change occurring over Western Europe during day.

Barometer highest 30.3 inches and upwards over the Northwest of France and the south of Ireland; 30.1 inches and upwards in an anticyclone embracing the whole of Ireland, England, France, the Netherlands and Western Germany. Lowest 29.6 inches and less in two depressions, one lying off the northwest of Norway, and the other over the Western parts of Russia. Norwegian depression subsequently moving to the southeastwards, and barometer falling over Western Europe generally.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Thursday 14TH JULY, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.32	59	2	0	c	29.38	+ .02	58	52	— 5	N	2	o	#	c	#	68	55	—
	Hernösand ...	29.41	58	2	0	b	29.34	— .07	52	51	— 6	NNE	2	r	#	b	#	73	55	0.32
	Stockholm ...	29.38	63	2	0	0	29.29	— .13	62	55	— 6	SE	2	c	#	0	#	73	59	0.04
	Wisby	29.44	60	WSW	4	0	29.39	— .12	59	52	0	SW	4	bc	#	0	#	66	55	—
	Karlstad ...	29.36	60	S	4	c	29.27	— .17	49	48	— 13	NW	6	r	#	c	#	#	#	—
	Bodö	29.51	50	W	4	c	29.54	+ .06	49	46	— 5	2	0	b	0	c	#	54	43	—
	Christiansund ...	29.60	50	WNW	4	r	29.59	— .03	49	46	— 2	W	4	0	4	r	#	52	46	0.35
	Skudesnaes ...	29.67	53	NNW	6	c	29.71	+ .09	49	45	— 2	NNW	8	b	4	c	#	55	45	#
	Færder (Christiania Fjord)	29.41	60	NNE	2	0	29.40	— .03	54	48	— 8	NNW	6	0	3	0	#	64	50	—
	Skagen (The Scaw)	29.38	61	SW	1	0	29.42	— .08	50	49	— 7	NNW	5	r	2	0	#	66	48	—
	Fanö	29.62	54	NW	6	c	29.68	+ .03	54	48	— 1	NW	8	c	#	c	#	59	52	—
	Sumburgh Head	29.85	50	NW	3	c	29.78	— .03	50	49	0	W	2	0	3	c	#	54	44	—
	Stornoway ...	30.01	58	N	2	bc	29.83	— .12	55	54	+ 2	SW	3	0	3	c, bc	12.4	58	46	—
	Wick	29.91	53	NE	4	bc	29.86	— .05	55	53	+ 5	NW	2	0	1	bc	#	59	42	—
	Nairn	29.97	60	E	2	b	29.89	— .03	54	50	+ 1	W	1	c	1	b	#	63	40	—
	Aberdeen ...	29.96	58	NW	3	b	29.89	+ .01	56	50	+ 5	SW	1	0	1	cq, b	9.3	58	44	0.03
British Islands	Leith	29.95	60	E	1	b	29.93	+ .04	56	51	— 2	W	3	0	#	b	#	67	48	—
	Shields	29.99	54	NNE	3	b	29.96	+ .11	53	51	— 1	W	2	c	2	b	#	59	46	—
	Spurn Head ...	29.94	55	N	6	b	29.99	+ .16	60	56	+ 4	W	3	bc	4	b	#	60	51	—
	York	29.97	60	N	3	b	30.00	+ .13	57	52	+ 1	W	3	b	#	o. b	7.8	64	45	—
	Loughborough ...	29.96	63	NE	3	bc	30.05	+ .15	59	53	+ 3	W	3	bcw	#	c, bc, bm	#	67	41	—
	Ardrossan ...	29.97	60	WNW	4	b	29.96	+ .03	55	54	— 2	SSW	3	omw	2	b	#	64	50	—
	Malin Head ...	30.05	55	NNW	3	omg	29.95	— .03	57	57	+ 3	W	5	rf	3	bc, omg	#	57	53	0.01
	Belmullet ...	30.02	59	NW	1	b	30.08	— .02	60	59	+ 2	WNW	3	o	#	b	#	63	55	0.03
	Donaghadee ...	30.04	60	NNW	5	b	30.02	+ .04	55	53	0	WSW	2	o	1	b	#	64	47	—
	Liverpool (Bidston)	30.00	60	WNW	4	b	30.05	+ .13	57	52	0	W	2	bc	2	b	#	62	51	—
	Holyhead ...	30.05	56	NNW	3	b	30.06	+ .08	57	55	0	WSW	1	omw	1	bc, b	#	59	53	—
	Parsonstown ...	30.08	67	NW	2	b	30.07	+ .02	61	59	+ 1	W	1	o	#	b	8.0	70	52	—
	Valencia ...	30.15	61	NNW	3	o	30.15	+ .01	60	59	0	NW	2	o	3	o	1.8	63	58	—
	Roche's Point ...	30.09	67	NW	5	b	30.13	+ .04	62	59	0	NW	2	o	2	b	#	68	56	—
	Pembroke (St. Ann's Hd.)	30.04	63	NW	3	c	30.09	+ .06	59	56	+ 2	W	1	c	0	c	7.3	64	53	—
	Scilly	30.06	64	NW	4	c	30.11	+ .02	63	60	+ 1	WNW	1	bcw	1	c	9.3	67	59	—
	Prawle Point ...	30.01	63	WNW	3	b	? 30.12	+ .13	61	54	— 2	SSW	2	b	1	b	#	74	51	—
	Jersey (St. Aubin's)	30.00	64	WNW	4	og	30.14	+ .13	64	59	+ 1	SW	2	bm	2	cm, cg, bm	#	67	53	—
	Hurst Castle ...	29.94	70	N	2	bc	30.10	+ .16	64	60	+ 2	SSW	3	bm	1	cm, bc	#	70	51	—
	Dungeness ...	29.89	61	NE	4	b	30.00	+ .23	56	51	— 5	WSW	2	bc	1	bc, b	#	67	43	—
	North Foreland	29.93	57	N	4	bc	30.09	+ .23	57	51	— 2	W	2	b	2	c, bc	#	63	49	0.01
	London (Brixton) ...	29.94	63	N	3	b	30.08	+ .17	62	55	+ 3	WSW	2	b	#	cp, bc, b	4.2	69	46	0.03
	Oxford	29.99	60	NNE	2	c	30.09	+ .15	57	53	0	SW	2	b	#	p, c	#	67	48	0.01
	Cambridge ...	29.96	59	N	3	b	30.07	+ .19	57	53	— 1	SW	3	b	#	b	6.8	67	44	—
	Yarmouth ...	29.90	57	NNW	5	bc	30.03	+ .23	56	52	0	W	2	b	3	cp, bc	#	59	43	0.09
Germany & Holland.	Cuxhaven ...	29.65	56	NW	5	o	29.79	+ .09	55	52	— 2	WNW	5	o	#	o	#	59	52	0.04
	Berlin	29.59	61	W	3	o	29.73	— .06	56	51	— 2	WNW	5	c	#	o	#	70	52	0.32
	Wiesbaden ...	#	#	#	#	#	29.98	+ .07	54	51	— 4	NW	2	bc	#	#	#	64	52	0.24
	Munich ...	29.78	61	2	0	0	29.95	— .07	50	49	— 9	NW	4	r	#	o	#	70	46	0.08
	The Helder ...	29.79	55	N	3	bc	29.97	+ .24	56	50	— 2	NW	3	bc	2	bc	#	59	52	0.04
Belgium.	Brussels ...	#	#	#	#	#	30.08	+ .23	55	50	— 3	NW	1	c	#	b	#	62	47	0.24
	Cape Gris Nez ...	?	60	ENE	1	bc	?	?	55	51	— 4	NNE	2	b	2	bc	#	63	52	—
	Paris ...	29.92	59	NW	3	bc	30.02	+ .13	57	53	— 2	NNE	2	bc	#	bc	#	61	46	0.16
	Brest	30.07	61	NW	2	c	30.13	— .02	58	56	— 1	N	1	b	0	c	#	66	50	—
	Lorient ...	30.02	66	N	4	bc	30.13	+ .01	57	55	— 3	N	2	bc	2	bc	#	77	52	—
France &	Rochefort ...	30.01	65	WNW	4	0	30.08	— .01	61	59	— 3	ENE	3	c	#	c, o	#	70	57	—
	Belfort	29.80	55	W	6	r	30.04	+ .03	51	49	— 6	W	4	o	#	r	#	68	48	0.43
	Lyons ...	29.89	67	W	1	r	30.06	.00	53	50	— 9	N	2	c	#	r	#	76	51	0.12
	Nice	29.78	72	2	0	b	29.57	— .35	70	63	+ 2	S	1	b	0	b	#	75	61	—
	Perpignan ...	29.92	79	NW	4	b	29.97	— .09	69	59	— 4	NW	4	bc	#	b	#	84	64	—
	Biarritz ...	30.08	68	WNW	4	c	30.08	— .05	65	61	— 1	NNW	4	o	2	c	#	72	61	—
Peninsula.	Corunna ...																#			
	Lisbon	29.94	80	N	3	b	29.93	— .06	74	68	— 2	ESE	3	b	#	b	#	86	70	—
	Azores (P. Delgada)	30.26	67	NE	4	bc	30.19	— .08	68	61	0	NE	4	bc	2	bc	#	75	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 11·3 hrs;

WEATHER CHARTS

FOR Thursday, 14th July, 1898

BAROMETER, WIND AND SEA.

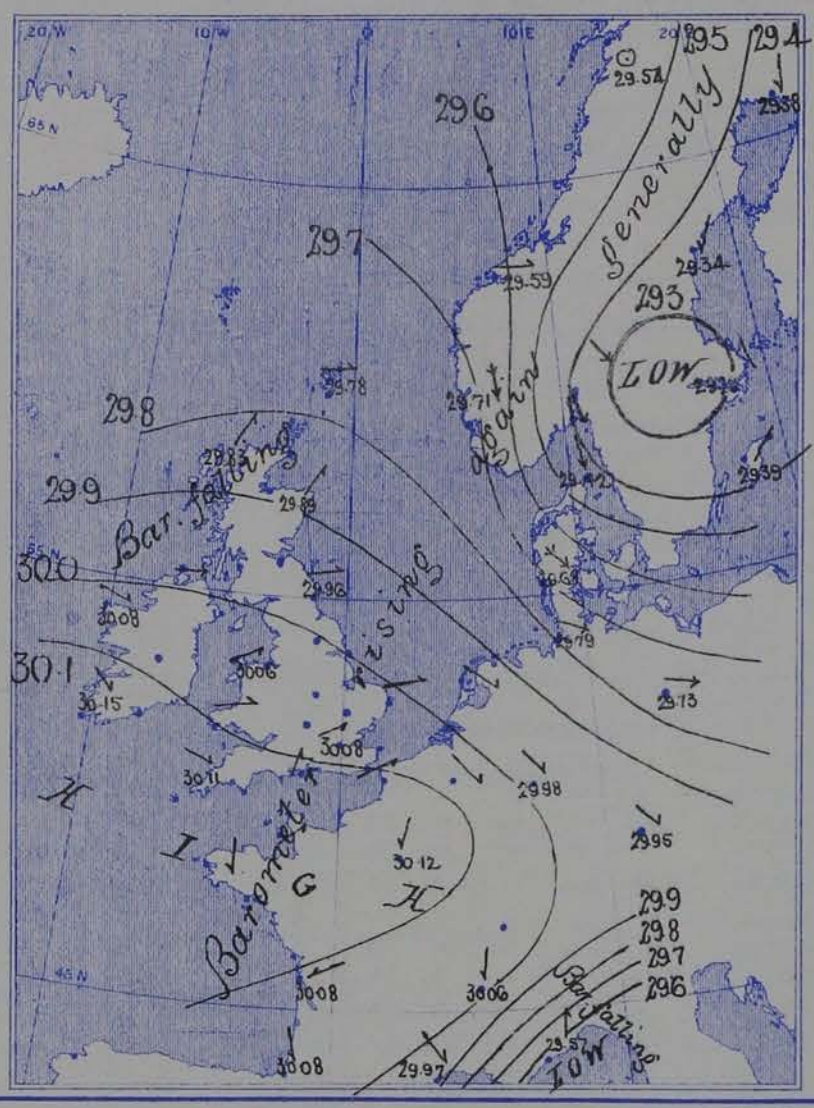
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ; *High*

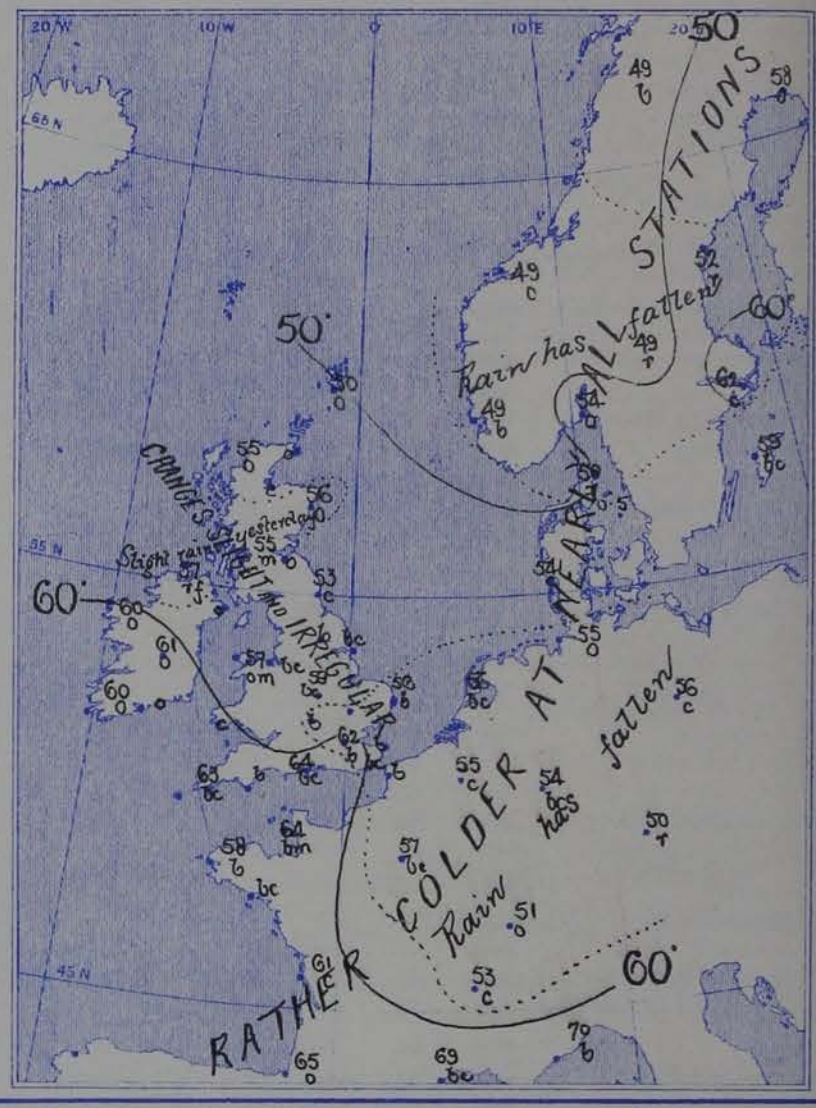


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 inches and upwards over the southwest of our Islands, the Channel and the north of France, 30.0 inches and upwards in an anticyclone covering nearly the whole of Ireland, England, France and Belgium.
Lowest 29.3 inches and less in a well marked depression over the south of Sweden; 29.6 inches and less in a deeper system over the Gulf of Genoa.
Gradient Slight generally, but steep over the south of France, and rather steep over Denmark and the south of Norway.
Barometer falling in all the more northern parts of our Islands, and also in the south of Scandinavia; steady, or rising, elsewhere.

TEMPERATURE

Highest 91° at Lisbon, 79° at Nice, 69° at Perpignan, 65° at Biarritz, 64° at Jersey and Kinsale Castle, and 63° at Scilly.
Lowest 49° at Bodö, Christiansund, Skudesnaes and Karlstad, and 38° at Dunbrutgh Head, Skagen and Munich.
The maxima registered yesterday were below 60° on many parts of our north and east coasts, and below 70° in most other parts of the Kingdom. At Fraserburgh, however, the thermometer rose to 74°.

WIND

Light from the Westward or Southwestward over our Islands generally, but Northwesterly on our extreme southwest coasts; Northerly or Northeasterly over the greater part of France.
Strong to a gale from the Northwestward over the eastern shores of the North Sea, and light to fresh from the same quarter over Germany and the Netherlands.
A well marked cyclonic circulation prevailed over the south of Sweden.

WEATHER

Fine over the greater part of England, France and the Netherlands; dull in Ireland and Scotland, with rain and fog at Valentia (Ft.).
Cloudy at most of the Scandinavian, Danish and German stations, with rain at Hernösand, Karlstad, Skagen and Munich.
Showers fell yesterday in the east and south of England and also at Aberdeen, and larger amounts of rain at several of the Continental stations.

SEA

Slight or smooth generally, but moderate off the west of Norway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression is apparently approaching our northern coasts from the westward, and cloudy unsettled weather seems likely to spread gradually over a considerable part of the United Kingdom.

FORECASTS

For the 24 hours ending at NOON on JULY 15TH 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Southwesterly to Northwesterly winds, freshening; cloudy, unsettled, some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Southwesterly to Westerly winds, moderate; fair at first, some rain later.
3	ENGLAND EAST	Southwesterly to Westerly winds, moderate; fair at first, cloudy later, with some showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as Nos. 0. and 1.
7	ENGLAND N.W.	Westerly to Northwesterly winds, freshening; cloudy, showery.
8	ENGLAND S.W.	Northwesterly winds, light or moderate; cloudy, local showers.
9	IRELAND NORTH	Westerly to Northwesterly winds, strong; squally, some rain
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes	29.64	55	49	NNW	6	c	2
Sumburgh Head	29.84	52	48	NW	3	c	4
Stornoway	30.00	57	54	N	3	c	3
Aberdeen	29.95	57	49	NW	3	cq	2
Shields	29.94	57	52	N	4	b	2
Ardrossan	29.96	63	57	WNW	4	b	3
Malin Head	30.04	57	52	NNW	3	bc	2
Belmullet	30.13	60	54	N	1	b	*
Holyhead	30.02	59	53	NNW	3	bc	2
Valencia	30.15	62	59	NNW	5	o	4
Scilly	30.05	65	61	NW	4	c	2
Jersey	29.99	66	61	WNW	5	cm	4
Hurst Castle	29.93	67	59	NW	3	om	2
Dungeness	29.87	63	54	NNW	4	bc	3
North Foreland	29.86	61	55	W	4	c	2
London (Westminster)	29.87	65	55	N	3	bc	*
Yarmouth	29.85	55	54	N	3	cp	4
Rochefort	30.08	68	62	NW	4	c	*

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

Weather in morning cloudy or dull over the greater part of Western, Northern and Central Europe, with showers in isolated parts of the United Kingdom and steady rain at Cuxhaven and Copenhagen. Fine in most of the southern countries and also over the Gulf of Finland and the south of Scandinavia. Skies clearing later in all parts of our Islands, but rain falling at many of the Continental stations, — somewhat heavily in places.

Temperature fallen in our Islands, Scandinavia, Denmark and Germany, changed irregularly elsewhere. Morning readings highest 83° at Constantinople, 78° at Barcelona and 76° at Lisbon; above 70° in many parts of Southern Europe, and touching 68° at Stockholm and Archangel. Lowest 50° at Sumburgh Head and Wick, and 51° at Christiansund, Skudesnaes and Aberdeen; below 55° at many of our own northern stations. Remaining below 60° all day on several parts of our northern and eastern coasts, but exceeding 65° in the west and south, and reaching 74° at Ptarole Point. Exceeding 75° in the west and south of France and touching 86° at Lisbon.

Wind light to fresh from the Northwestward over the greater part of our Islands and also in the west and south of France, but Westerly in the southeast of England. Light to moderate from the Westward or South-westward over Denmark, the south of Sweden, and Central and Southeastern Europe generally, but Northerly over the north of Sweden and the south of Norway. Northwesterly in Italy; Northerly over the Spanish Peninsula, Northerly or Northwesterly winds setting in later over the whole of Western Europe.

Barometer highest 30.1 inches and upwards in an anticyclone extending from the Atlantic over the southwest of Ireland, the Bay of Biscay and the neighbouring parts of France and Spain. Lowest 29.4 inches and less in two shallow depressions, — one lying over the Gulf of Bothnia and the other over Central Russia. Former disturbance moving southwards later and becoming rather deeper; shallow secondary system forming in a similar direction over Great 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France: at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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

DAILY WEATHER REPORT

for 8 a.m. on Friday 15th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.	
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.45	57	S	0	o	29.49	+ .11	59	56	+ 1	NNE	4	o	#	o	#	64	48	—
	Hernösand ...	29.39	57	E	4	o	29.46	+ .12	55	55	+ 3	E	4	r	#	o	#	59	50	†0.32
	Stockholm ...	29.30	57	SE	2	c	29.33	+ .04	55	53	— 7	NNW	4	o	#	c	#	66	55	0.04
	Wisby	29.30	52	NW	8	r	29.35	— .04	53	52	— 6	NNW	10	o	#	r	#	61	48	0.63
	Karlstad ...	29.45	51	N	6	r	29.56	+ .29	53	48	+ 4	NW	6	o	#	r	#	#	#	0.08
	Bodö	29.66	52	S	0	o	29.76	+ .22	52	49	+ 3	WNW	4	c	2	o	#	54	45	—
	Christiansund ...	29.77	54	NW	3	o	29.67	+ .08	51	46	+ 2	SW	3	o	4	o	#	54	45	0.16
	Skudesnaes ...	29.82	51	NNW	6	c	29.90	+ .19	51	48	+ 2	NNW	4	b	2	be, c	#	54	45	#
	Færder (Christiania Fjord)	29.54	58	NNW	5	c	29.70	+ .30	57	48	+ 3	NNW	6	b	3	c	#	59	52	—
	Skagen (The Scaw)	29.62	55	NW	3	b	29.73	+ .31	57	50	+ 7	NW	4	b	1	bbr	#	64	48	0.04
	Fanö	29.86	54	WNW	7	b	29.91	+ .23	56	52	+ 2	NW	6	be	#	b	#	59	54	—
	Sumburgh Head	29.77	53	W	2	o	29.93	+ .15	53	51	+ 3	W	3	c	4	c, o	#	58	47	—
	Stornoway ...	29.93	56	NW	5	o	29.98	+ .15	56	52	+ 1	WSW	4	c	4	c, o	1.3	60	47	—
	Wick	29.88	58	NW	3	b	30.02	+ .16	56	52	+ 1	W	2	b	1	b	#	66	45	—
	Nairn	29.98	65	NW	4	be	30.02	+ .13	60	55	+ 6	NW	3	be	2	be	#	71	45	—
	Aberdeen ...	29.87	58	E	2	b	30.06	+ .17	60	52	+ 4	W	1	b	1	og, b	4.5	65	50	—
British Islands.	Leith	29.91	66	W	3	b	30.09	+ .16	60	53	+ 4	W	2	b	#	b	#	71	48	—
	Shields	29.96	63	W	3	c	30.10	+ .14	58	54	+ 5	W	3	b	2	c	#	66	48	—
	Spurn Head ...	29.98	65	WNW	4	b	30.12	+ .13	59	57	— 1	NNW	4	b	4	b	#	65	56	—
	York	30.00	67	W	3	b	30.12	+ .12	61	55	+ 4	N	1	b	#	c, o, b	7.8	68	50	—
	Loughborough ...	30.04	69	WNW	4	be	30.14	+ .09	66	61	+ 7	WNW	2	bew	#	be, c, be	#	75	57	—
	Ardrossan ...	30.00	65	W	5	b	30.12	+ .16	57	55	+ 2	WNW	3	c	2	b	#	65	52	—
	Malin Head ...	30.06	57	WNW	5	om	30.11	+ .16	59	57	+ 2	SSW	3	bcm	2	om	#	59	54	0.01
	Belmullet ...	30.13	60	NW	1	b	30.17	+ .09	62	60	+ 2	WSW	1	o	#	b	#	62	55	0.01
	Donaghadee ...	30.06	62	N	2	b	30.16	+ .14	60	55	+ 5	NW	3	b	1	b	#	66	45	—
	Liverpool (Bidston)	30.06	62	W	40	o	30.17	+ .12	59	58	+ 2	WNW	1	c	2	o	#	63	55	—
	Holyhead ...	30.09	59	SW	2	om	30.17	+ .11	59	56	+ 2	N	1	c	1	om	#	61	52	—
	Parsonstown ...	30.10	65	W	1	o	30.17	+ .10	59	57	— 2	NW	1	o	#	d, o	0.0	69	57	—
	Valencia ...	30.16	61	NW	3	c	30.20	+ .05	60	58	— 1	N	1	o	2	om, c	0.7	64	56	—
	Roche's Point ..	30.13	65	SW	3	bc	30.20	+ .07	62	59	0	N	1	a	1	c, bc	#	68	58	—
	Pembroke (St. Ann's Hd.)	30.11	62	S	0	bc	30.16	+ .07	63	62	+ 4	S	0	f	0	bc	2.3	63	58	—
	Scilly	30.16	66	WNW	1	b	30.17	+ .06	62	61	— 1	WNW	1	m	0	bc, b	13.6	68	59	—
	Prawle Point ...	30.14	65	WSW	3	bc	30.20	+ .08	62	59	+ 1	ESE	1	c	1	bc	#	66	55	—
	Jersey (St. Aubin's)	30.17	66	W	3	b	30.21	+ .07	63	61	— 1	W	3	cm	3	b	#	67	59	
	Hurst Castle ...	30.11	64	WSW	4	c	30.18	+ .08	66	63	+ 2	SW	1	cm	0	bc, c	#	69	55	—
	Dungeness ...	30.07	62	SW	4	bc	30.15	+ .05	60	58	+ 4	WNW	1	c	1	bc	#	65	52	—
	North Foreland	30.06	64	SSW	3	bc	30.15	+ .06	66	60	+ 9	W	3	bc	2	b, bc	#	68	56	—
	London (Brixton) ...	30.04	73	SW	2	b	30.15	+ .07	67	61	+ 5	WNW	1	bc	#	b	11.4	77	59	—
	Oxford	30.08	67	W	2	bc	30.16	+ .07	64	61	+ 7	WSW	1	b	#	bc	#	74	53	—
	Cambridge ...	30.03	70	WSW	1	o	30.15	+ .08	66	62	+ 9	WNW	2	b	#	b, o	11.1	74	54	—
	Yarmouth ...	29.99	69	W	2	b	30.11	+ .08	64	59	+ 8	WNW	3	b	2	bc, b	#	69	55	—
Germany & Holland.	Cuxhaven ...	29.95	56	NW	6	o	29.96	+ .17	56	53	+ 1	NW	4	o	#	o	#	57	52	—
	Berlin	29.94	56	W	4	bc	29.92	+ .19	57	52	+ 1	W	3	c	#	bc	#	64	50	—
	Wiesbaden ...	#	#	#	#	#	30.16	+ .18	56	53	+ 2	SW	2	bc	#	#	#	64	46	—
	Munich	30.21	52	SW	4	o	30.28	+ .33	55	50	+ 5	W	5	c	#	o	#	55	45	—
	The Helder ...	30.00	58	SW	3	c	30.06	+ .09	63	59	+ 7	W	1	b	1	c	#	64	55	—
Belgium.	Brussels ...	#	#	#	#	#	30.16	+ .08	59	57	+ 4	SW	3	b	#	b	#	66	54	—
	Cape Gris Nez ...	?	60	WSW	4	bc	?	?	60	57	+ 5	SSW	1	m	1	bc	#	64	55	—
	Paris	30.16	65	NE	1	b	30.22	+ .10	59	54	+ 2	S	2	b	#	b	#	68	47	—
	Brest ...	?	60	N	2	b	30.20	+ .07	61	57	+ 3	ENE	1	b	0	b	#	70	52	—
	Lorient	30.18	69	W	2	b	30.19	+ .06	59	56	+ 2	E	3	b	2	b	#	73	52	—
France &	Rochefort ...	30.12	68	NW	3	bc	30.17	+ .09	61	59	0	ESE	2	b	#	b	#	79	57	—
	Belfort	30.10	62	W	1	c	30.22	+ .18	54	52	— 3	S	0	m	#	c	#	67	43	—
	Lyons ...	30.14	63	N	2	b	30.22	+ .16	58	51	+ 5	NNW	1	b	#	b	#	67	49	—
	Nice	29.81	68	SW	1	b	30.01	+ .44	71	60	+ 1	E	2	b	1	b	#	77	59	—
	Perpignan ...	29.99	79	NW	4	b	30.09	+ .12	68	61	— 1	S	0	b	#	b	#	81	59	—
	Biarritz ...	30.09	69	NNW	3	b	30.04	— .04	63	59	— 2	E	3	b	2	b	#	73	57	—
Penin-sula.	Corunna ...																#			
	Lisbon	29.96	71	SW	2	b	30.02	+ .09	70	64	— 4	SSE	2	c	#	b	#	77	66	—
	Azores (P. Delgada)	30.17	67	NNE	4	o	30.15	— .04	67	64	— 1	NNE	3	bc	2	o	#	73	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 3·0 hrs;

WEATHER CHARTS

FOR Friday, 15th July, 1898

BAROMETER, WIND AND SEA.

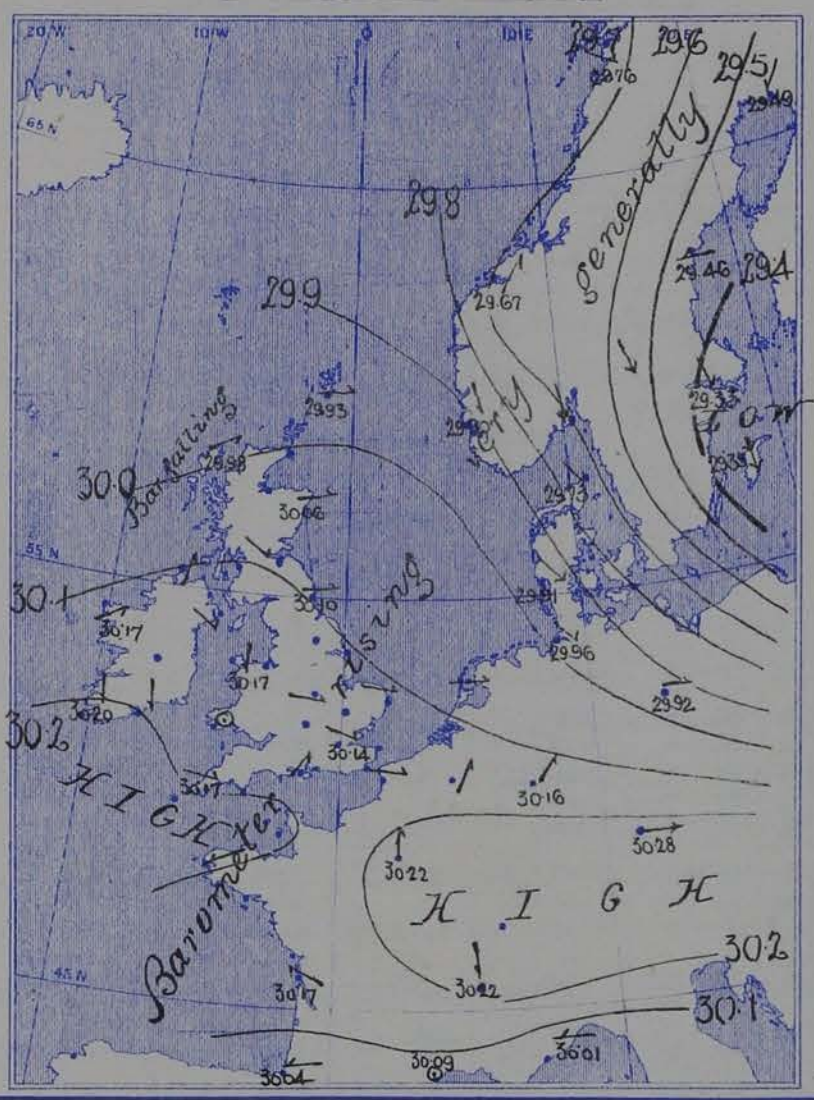
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ▒ ; High ▓


20 W
10 W
0
10 E
65 N
55 N
45 N
298
299
300
301
302
296
295
294
Generally
Barometer falling
Rising
HIGH
3022
3028
3016
3017
3020
3014
3017
3017
3004
3001
3009
3022
3017
3017
3017

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.0 inches to 30.2 inches, or a little above, in an anticyclone covering the greater part of Western Europe.
Lowest 29.4 inches and less in a depression moving eastwards over the Gulf of Finland.
Gradients very slight over Western Europe generally, but moderate to rather steep over Denmark, the Baltic and the south of Scandinavia.
Barometer rising generally, but falling a little in the Hebrides.

TEMPERATURE

Highest (1) 71° at Nice, and 68° at Perpignan; (2) 67° in London and 66° at Loughborough, Cambridge, Hawstead Castle, and the North Foreland.
Lowest (1) 51° at Christiansund and Skudesnaes, 52° at Bodö and 53° at Karlstad, Wisby and Flamborough Head; (2) 52° at Belfort and 55° at Munich.
During yesterday the thermometer rose to 70° and upwards in many parts of Great Britain, and to 77° in London.

WIND

Light from the Westward (Southwest to Northwest) over our Islands and the Netherlands.
Moderate from the Eastward or Northeastward in the Gulf of Bothnia; fresh to strong from the North-westward over Denmark and the south of Scandinavia, with a gale at Wisby; moderate from the Westward in the Channels and Germany.
Light from the Eastward in the west and south of France.

WEATHER

Fine over Western Europe as a whole, but dull in the south of Ireland, and foggy or misty at the mouths of the English and Bristol Channels.
Dull in Sweden, with rain at Haparanda.
Slight rain fell yesterday in the north of Ireland, and larger amounts at several of the Scandinavian stations; a thunderstorm occurred at Faro at night. A solar halo was seen yesterday at Spurnhead.

SEA

Slight or smooth generally, but moderate off the north of Scotland and the west of Norway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was approaching our northern coasts yesterday proved to be very shallow, and has since moved northeastwards and dispersed. There are some indications of the advance of another disturbance towards the Hebrides, but this is scarcely likely to affect the weather on any but our extreme north and northwest coasts.

FORECASTS

For the 24 hours ending at NOON on JULY 16TH. 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Southwesterly to Westerly winds, moderate; fair at first, some rain later.
1	SCOTLAND EAST	Westerly winds, light; fine, warm.
2	ENGLAND N.E.	Northwesterly to Westerly winds, light; fair, warm.
3	ENGLAND EAST	Westerly winds, light; fair, warm.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.		FORECASTS.
6	SCOTLAND WEST	Same as No. 1.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as Nos. 3. to 5.
9	IRELAND NORTH	Southwesterly to Westerly winds, moderate; cloudy, rain locally.
10	IRELAND SOUTH	Same as No. 2.
	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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.79	54	48	NNW	6	be	2
Sumburgh Head	29.76	55	53	W	3	c	3
Stornoway ...	29.87	60	56	NW	4	c	4
Aberdeen	29.86	62	55	SW	1	og	1
Shields	29.95	64	58	W	4	c	2
Ardrossan	29.96	64	61	W	5	b	3
Malin Head ...	30.02	58	57	WNW	5	o	3
Belmullet	30.12	61	59	WNW	1	o	*
Holyhead	30.07	59	55	SW	2	om	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.17	62	61	W	2	om	3
Scilly	30.16	67	62	WSW	2	be	0
Jersey	30.18	65	58	W	4	bm	3
Hurst Castle ...	30.10	68	63	SW	3	b	2
Dungeness ...	30.10	64	55	SW	3	be	2
North Foreland	30.07	67	58	S	3	b	3
London (Westminster)	30.05	74	61	WSW	3	b	*
Yarmouth ...	30.01	69	58	WNW	3	be	3
Rochefort ...							*

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

Continental Information not received.

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.

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DAILY WEATHER REPORT

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	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fshr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29·55	59	N	2	r	29·60	+ ·11	60	58	+ 1	2	0	0	*	r	*	63	52	0·47
	Hernösand ...	29·66	54	NNW	6	r	29·62	+ ·16	48	47	— 7	N	6	r	*	r	*	59	48	1·46
	Stockholm ...	29·59	55	NW	4	r	29·64	+ ·31	49	48	— 6	WNW	4	r	*	r	*	64	48	0·32
	Wisby	29·62	55	NW	10	o	29·69	+ ·34	54	51	+ 1	NNW	10	o	*	o	*	55	48	0·20
	Karlstad ...	29·75	61	NW	4	c	29·79	+ ·23	55	48	+ 2	NW	4	b	*	c	*	*	*	—
	Bodö	29·85	52	NNW	2	b	29·79	+ ·03	52	48	0	W	1	bc	0	b	*	55	46	—
	Christiansund ...	29·94	54	NW	3	o	29·86	+ ·19	53	50	+ 2	W	6	r	4	o	*	54	48	0·32
	Skudesnaes ...	30·03	55	NW	4	b	30·00	+ ·10	54	51	+ 3	WNW	2	o	2	c, b	*	60	50	*
	Færder (Christiania Fjord)	29·77	63	SW	2	b	29·86	+ ·16	62	54	+ 5	WSW	2	b	2	b	*	63	57	—
	Skagen (The Scaw)	29·82	58	WNW	2	b	29·89	+ ·16	60	54	+ 3	NW	1	b	0	b	*	66	55	—
	Fanö	30·03	55	WNW	6	c	30·08	+ ·17	57	54	+ 1	WNW	6	bc	*	c	*	61	54	—
British Islands.	Sumburgh Head	29·95	53	W	3	o	29·86	— ·07	54	53	+ 1	W	3	o	4	o	*	59	50	0·03
	Stornoway ...	30·00	59	WNW	5	rm	29·97	— ·01	55	53	— 1	W	4	o	4	be, rm	4·9	63	48	0·15
	Wick	30·05	60	W	2	c	29·98	— ·04	58	55	+ 2	NW	3	bc	2	b, c	*	70	51	0·10
	Nairn	30·04	67	W	3	bc	29·99	— ·03	58	57	— 2	W	2	o	1	bc	*	74	54	0·05
	Aberdeen ...	30·04	61	E	1	cm	29·96	— ·10	63	57	+ 3	SW	1	c	1	bc, cm	10·3	67	52	—
	Leith	30·08	68	W	2	bc	30·05	— ·04	61	57	+ 1	WSW	3	o	*	bc	*	77	55	—
	Shields	30·11	61	E	2	c	30·10	·00	63	59	+ 5	W	3	c	2	c	*	65	55	—
	Spurn Head ...	30·13	58	SE	3	c	30·12	·00	64	61	+ 5	WNW	3	b	3	b, c, bw	*	64	54	—
	York	30·12	73	WSW	2	b	30·14	+ ·02	65	59	+ 4	W	1	b	*	b, c, b	14·2	78	50	—
	Loughborough ...	30·13	78	WNW	1	b	30·16	+ ·02	68	59	+ 2	W	1	cm	*	bc, bm, c	*	80	57	—
	Ardrossan ...	30·14	61	SSW	2	cm	30·10	— ·02	59	58	+ 2	WSW	4	cmw	3	bcm, cm	*	63	56	—
	Malin Head ...	30·15	60	W	3	cg	30·12	+ ·01	59	58	0	W	5	cm	3	cg	*	62	57	—
	Belmullet ...	30·20	63	NW	1	b	30·22	+ ·05	61	60	— 1	W	3	o	*	o, b	*	65	55	—
	Donaghadee ...	30·16	63	NW	3	c	30·16	·00	64	59	+ 4	WNW	4	bc	2	c	*	65	50	—
	Liverpool (Bidston)	30·17	63	WNW	1	b	30·18	+ ·01	63	59	+ 4	W	2	b	1	b	*	64	56	—
	Holyhead ...	30·19	60	Z	0	bc	? 30·18	+ ·01	66	61	+ 7	W	1	b	1	b, bc	*	66	54	—
	Parsonstown ...	30·16	72	W	1	bc	30·24	+ ·07	66	58	+ 1	Z	0	bc	*	bc	6·5	72	54	—
	Valencia ...	30·21	64	NW	3	bcr	30·27	+ ·07	63	58	+ 3	NNW	3	b	3	cr, bcr	6·5	68	53	—
	Roche's Point ...	30·21	66	SSW	2	b	30·23	+ ·03	60	55	— 2	N	3	b	3	b	*	69	57	—
	Pembroke (St. Ann's Hd.)	30·19	59	NW	2	f	30·20	+ ·04	59	58	— 4	W	1	bc	0	f	0·1	63	55	—
	Scilly	30·19	66	SW	1	c	30·19	+ ·02	64	61	+ 2	NNE	1	b	0	c	1·7	68	60	—
	Prawle Point ...	30·18	66	WSW	2	b	30·17	— ·03	70	65	+ 8	ESE	1	b	1	b	*	72	59	—
	Jersey (St. Aubin's)	30·17	71	N	2	b	30·17	— ·04	71	64	+ 8	NE	1	b	1	b, bm	*	73	59	—
	Hurst Castle ...	30·12	68	SW	2	bm	30·14	— ·04	69	64	+ 3	WSW	1	bcm	0	bcm, bm	*	72	58	—
	Dungeness ...	30·15	62	SW	3	bc	30·14	— ·01	63	60	+ 3	SW	1	c	0	bc	*	70	58	—
	North Foreland ...	30·16	66	S	3	b	30·15	·00	64	60	— 2	S	2	b	1	b	*	73	58	—
	London (Brixton) ...	30·12	79	W	2	b	30·14	+ ·01	69	64	+ 2	Z	0	b	*	b	12·5	82	59	—
	Oxford	30·14	72	WSW	2	o	30·16	·00	64	54	0	N	1	c	*	b, o	*	80	56	—
	Cambridge ...	30·13	80	WSW	1	b	30·16	+ ·01	64	58	— 2	NNW	1	o	*	b	13·6	80	54	—
	Yarmouth ...	30·15	63	ENE	4	b	30·12	+ ·01	63	61	— 1	WNW	2	bc	2	b	*	66	56	—
Germany & Holland.	Cuxhaven ...	30·10	56	NW	4	o	30·12	+ ·16	57	54	+ 1	WNW	4	bc	*	o	*	59	54	—
	Berlin	30·01	63	W	4	c	30·08	+ ·16	56	50	— 1	WNW	4	c	*	c	*	68	54	—
	Wiesbaden ...	*	*	*	*	*	30·19	+ ·03	60	56	+ 4	NW	2	b	*	*	*	75	48	—
	Munich	30·03	59	Z	0	b	30·24	— ·04	62	56	+ 7	W	2	b	*	b	*	66	50	—
	The Helder ...	30·16	59	N	1	b	30·15	+ ·09	60	56	— 3	S	1	b	1	b	*	66	46	—
France & Belgium.	Brussels ...	*	*	*	*	*	30·18	+ ·02	65	60	+ 6	WSW	1	b	*	b	*	75	60	—
	Cape Gris Nez	?	60	SSW	1	f	?	?	66	61	+ 6	SSE	1	m	1	f	*	68	55	—
	Paris	30·17	73	E	1	b	30·17	— ·05	66	63	+ 7	Z	0	b	*	b	*	78	54	—
	Brest ...	30·21	70	SE	2	b	30·19	— ·01	61	57	0	E	1	b	1	b	*	72	54	—
	Lorient	30·13	70	NW	1	b	30·12	— ·07	63	58	+ 4	ENE	2	b	0	b	*	79	59	—
	Rochefort ...	30·07	84	ESE	2	b	30·01	— ·16	66	63	+ 5	ENE	3	b	*	b	*	93	57	—
	Belfort	30·13	69	NNE	1	m	30·13	— ·09	63	57	+ 9	E	3	m	*	m	*	74	44	—
	Lyons	30·14	72	NNW	1	b	30·13	— ·09	66	56	+ 8	E	1	b	*	b	*	75	55	—
	Nice	30·06	71	W	2	b	30·13	+ ·12	68	59	— 3	SW	1	b	0	b	*	80	63	—
	Perpignan ...	30·07	73	E	2	b	30·10	+ ·01	66	64	— 2	NE	1	bc	*	b	*	81	63	—
	Biarritz ...	29·94	84	E	4	b	29·97	— ·07	69	67	+ 6	SW	4	b	2	b	*	86	63	—
Peninsula.	Corunna ...																*			
	Lisbon														*		*			
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 10·5 hrs;

WEATHER CHARTS

FOR Saturday, 16th July, 1898

BAROMETER, WIND AND SEA.

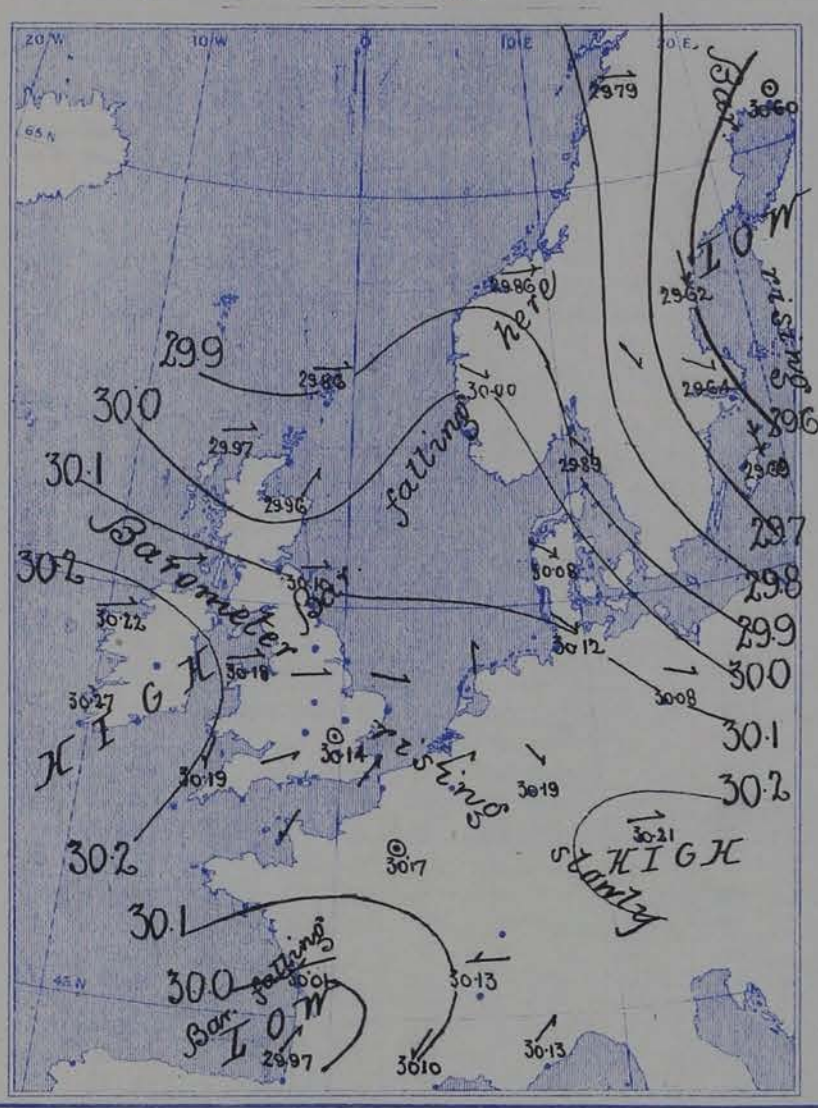
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟩⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ▒ ; High ▓



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29 896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62 2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	20·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29 953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 inches and upwards in Ireland and also over South Germany.
Lowest 29.6 inches and less over Finland and the Gulf of Bothnia; 29.9 inches and less in a depression lying to the northward of our Islands; 30.0 inches and less in a shallow disturbance over the Southwest of France.
Gradients slight generally, but moderate over Denmark and the South of Sweden.
Barometer falling a little in the northern parts of our Islands and the west of Norway, as well as at some of the French stations, (but rising elsewhere)

TEMPERATURE

Highest (1) 71° at Jersey, 70° at Pravole Point and 69° in London and at Hurst Castle, (2) 69° at Biarritz and 68° at Nice.
Lowest 48° at Hernosand, 49° at Stockholm, 52° at Bodö, 53° at Christiansund and 54° at Wisby, Thurso and Lerwick 55°.
During yesterday the thermometer rose to between 75° and 80° in many parts of Great Britain, and to 82° in London.

WIND

Light to moderate from the Westward over the northern parts our Islands, and from the Northwestward or Northward in the south of Ireland; variable in the south of England.
Easterly or Northeasterly over the greater part of France, but variable in the south of that country.
Northwesterly over Scandinavia, Denmark and North Germany, with a strong gale at Wisby.

WEATHER

Fine over Western Europe as a whole, but dull at several of our own northern stations, as well as in many parts of Scandinavia, with rain at Christiansund, Hernösand and Stockholm.
A little rain fell yesterday in the north of Scotland, and larger quantities in Sweden, — as much as 1.5 inches at Hernösand. Distant thunder was heard at Wick.

SEA

Slight or smooth generally, but moderate off the north of Scotland and at Christiansund.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any material change in the weather.

FORECASTS

For the 24 hours ending at NOON on JULY 17TH 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Westerly winds, moderate; cloudy, some showers.
1	SCOTLAND EAST	Light breezes, chiefly Westerly; fair generally.
2	ENGLAND N.E.	
3	ENGLAND EAST	Light variable airs; fine, warm.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Westerly winds, moderate; cloudy, local showers.
7	ENGLAND N.W.	Same as Nos. 1. and 2.
8	ENGLAND S.W.	Northerly winds, light; fine, warm.
9	IRELAND NORTH	Same as No. 6.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.97	60	51	NNW	6	c	2	Valencia	30.20	67	62	W	2	ov	2
Sumburgh Head	29.92	56	53	W	4	o	4	Scilly	30.19	66	63	S	1	c	0
Stornoway	29.99	62	58	WNW	5	bc	5	Jersey	30.21	67	63	SW	3	b	3
Aberdeen ...	30.02	65	56	S	2	bc	1	Hurst Castle ...	30.18	70	65	SW	3	bcm	1
Shields	30.11	60	56	E	3	bc	2	Dungeness ...	30.18	65	61	SW	3	bc	2
Ardrossan	30.14	62	60	SSW	2	bcm	2	North Foreland	30.17	67	62	SSE	2	b	2
Malin Head ...	30.14	61	58	W	4	c	2	London (Westminster)	30.13	81	68	N	1	b	*
Belmullet	30.19	62	59	NW	1	o	*	Yarmouth ...	30.15	65	60	NNE	3	b	3
Holyhead ...	30.19	63	58	WNW	2	b	1	Rochefort ...	30.12	90	79	ESE	3	b	*

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

Continental information not received.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France ; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Sunday 17th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29·56	59	SSW	2	0	29·52	−·08	60	55	0	E	2	c	*	0	*	70	54	—
	Hernösand ...	29·59	52	NW	4	0	29·49	−·13	55	50	+ 7	NW	2	bc	*	0	*	55	46	0·20
	Stockholm ...	29·67	54	NW	2	b	29·55	−·09	59	55	+ 10	SE	2	0	*	b	*	59	46	0·04
	Wisby	29·73	55	SSW	4	bc	29·60	−·09	57	55	+ 3	WNW	4	0	*	bc	*	61	50	—
	Karlstad ...	29·66	63	WSW	2	bc	29·50	−·29	54	52	− 1	NE	2	r	*	bc	*	*	*	0·04
	Bodö	29·69	52	2	0	c	29·58	−·21	51	49	− 1	SW	4	0	1	c	*	54	45	—
	Christiansund ...	29·75	53	W	5	c	29·73	−·13	51	49	− 2	NNW	2	r	3	c	*	57	?	0·24
	Skudesnaes ...	29·85	53	NW	4	0	29·79	−·21	52	49	− 2	NW	6	bc	2	0	*	54	48	*
	Færder (Christiania Fjord)	29·69	61	W	4	0	29·56	−·30	54	51	− 8	NNW	6	0	3	0	*	64	54	—
	Skagen (The Scaw)	29·76	57	W	4	0	29·62	−·27	56	51	− 4	NW	6	b	2	0	*	64	52	—
	Fanö	29·92	57	W	6	0	29·90	−·18	57	52	0	WNW	6	c	*	0	*	63	52	0·04
	Sumburgh Head	29·83	54	W	3	bc	29·92	+ ·06	49	46	− 5	N	4	0	4	bc	*	57	46	0·01
	Stornoway ...	30·02	55	NW	5	r	30·03	+ ·06	54	50	− 1	W	2	c	2	bc, r	4·9	58	48	0·08
	Wick	29·97	52	NW	5	c	†30·02	+ ·04	55	53	− 3	NW	1	bc	1	c	*	63	47	0·02
	Nairn	30·00	60	NW	4	bc	30·06	+ ·07	56	49	− 2	W	2	c	1	bc	*	67	48	—
	Aberdeen ...	29·99	58	NE	1	c	30·05	+ ·09	57	50	− 6	NW	2	c	1	c	5·8	67	49	—
British Isls.	Leith	30·02	65	W	2	b	30·08	+ ·03	57	53	− 4	W	2	0	*	b	*	71	49	0·21
	Shields	30·06	66	W	4	c	30·13	+ ·03	60	53	− 3	W	3	c	2	p. c	*	72	49	—
	Spurn Head ...	30·08	62	SSW	2	b	30·14	+ ·02	60	56	− 4	NW	2	b	3	b	*	72	57	—
	York	30·07	73	W	3	b	30·15	+ ·01	60	53	− 5	WNW	1	b	*	b	13·9	75	52	—
	Loughborough ...	30·13	73	WNW	3	b	30·18	+ ·02	66	61	− 2	NW	3	bc	*	bc, bm, c	*	78	54	—
	Ardrossan ...	30·09	62	W	3	bp	30·10	·00	58	53	− 6	E	1	rf	1	0, bp	*	63	52	0·06
	Malin Head ...	30·14	58	WNW	4	of	30·06	−·06	59	59	0	W	4	ofp	3	of	*	61	54	0·17
	Belmullet ...	30·24	63	W	3	o	30·20	−·02	61	60	0	W	4	o	*	o	*	65	59	—
	Donaghadee ...	30·18	65	W	4	c	30·16	−·01	59	59	− 5	WSW	3	c	1	c	*	72	54	0·01
	Liverpool (Bidston)	30·17	66	W	3	b	30·19	+ ·01	60	58	− 3	W	2	o	2	b	*	67	58	—
	Holyhead ...	30·19	64	WSW	2	b	30·21	+ ·01	62	60	− 4	WSW	2	om	1	b	*	72	57	—
	Parsonstown ...	30·23	67	W	2	c	30·24	·00	65	60	+ 5	W	2	c	*	c	9·7	72	56	—
	Valencia ...	30·33	64	NNW	3	bcm	30·31	+ ·04	62	61	− 1	W	2	om	2	br. bcm	14·8	66	58	—
	Roche's Point ..	30·25	70	NNW	3	b	30·30	+ ·07	62	60	+ 2	WNW	1	0	1	b	*	71	59	—
	Pembroke (St. Ann's Hd.)	30·20	69	NE	3	b	30·25	+ ·05	62	59	+ 3	NW	3	b	1	b	12·9	70	57	—
	Scilly	30·20	65	NNE	3	bc	30·25	+ ·06	64	62	0	N	2	bcr	1	bc	12·4	67	60	—
	Prawle Point ...	30·15	73	N	1	b	30·24	+ ·07	72	64	+ 2	NE	2	b	1	b	*	79	59	—
	Jersey (St. Aubin's)	30·13	73	NNW	3	bm	30·25	+ ·04	68	61	− 3	NE	3	bm	3	bm	*	76	62	—
	Hurst Castle ...	30·10	77	N	1	b	30·21	+ ·07	72	65	+ 3	NE	1	bm	0	bcm, b	*	77	57	—
	Dungeness ...	30·09	64	SW	2	bc	30·16	+ ·02	67	59	+ 4	N	3	b	2	b, bc	*	71	55	—
	North Foreland	30·10	68	2	0	b	30·17	+ ·02	63	59	− 1	WNW	3	b	2	c, b	*	72	56	—
	London (Brixton) ...	30·07	79	NNW	1	b	30·18	+ ·04	66	61	− 3	NW	2	bc	*	b	11·2	81	58	—
	Oxford	30·14	69	N	2	b	30·20	+ ·04	65	59	+ 1	N	1	bc	*	b	*	80	54	—
	Cambridge ...	30·10	77	NNW	2	b	30·17	+ ·01	65	61	+ 1	NNW	2	b	*	b	10·6	81	54	—
	Yarmouth ...	30·09	65	2	0	c	30·13	+ ·01	63	57	0	NW	4	b	3	c	*	69	55	—
Germany & Holland.	Cuxhaven ...	30·04	63	WNW	2	c	29·95	−·17	59	57	+ 2	WNW	5	c	*	c	*	64	57	—
	Berlin	30·02	67	WNW	2	b	29·95	−·13	59	55	+ 3	WNW	4	0	*	b	*	73	56	—
	Wiesbaden ...	*	*	*	*	*									*	*	*			
	Munich	30·17	64	W	1	b	30·13	−·11	66	59	+ 4	SW	3	b	*	b	*	73	54	—
	The Helder ...	30·06	62	NW	1	b	30·06	−·09	60	57	0	NW	3	bc	0	b	*	66	59	—
Belgium.	Brussels ...	*	*	*	*	*	30·15	−·03	64	59	− 1	WNW	2	b	*	0	*	79	53	—
	Cape Gris Nez ...	?	66	SW	1	b	?	?	63	59	− 3	E	1	m	1	b	*	72	59	—
	Paris	30·09	79	ENE	2	b	30·15	−·02	65	61	− 1	N	1	b	*	b	*	82	59	—
	Brest	30·13	72	NE	2	b	30·19	·00	63	59	+ 2	NE	2	bc	1	b	*	79	57	—
	Lorient	30·08	75	NE	4	b	30·15	+ ·03	65	61	+ 2	E	3	b	2	b	*	88	59	—
France &	Rochefort ...	29·96	89	ENE	3	b	†30·11	+ ·10	69	66	+ 3	ENE	3	b	*	b	*	95	64	—
	Belfort	30·03	75	N	1	m	30·06	−·07	65	59	+ 2	W	1	m	*	m	*	80	55	—
	Lyons	30·02	82	ESE	1	b	30·10	−·03	70	62	+ 4	N	1	b	*	b	*	87	58	—
	Nice	30·08	70	SW	2	b	30·08	−·05	71	62	+ 3	2	0	b	0	b	*	79	61	—
	Perpignan ...	30·05	70	NE	1	o	30·09	−·01	68	67	+ 2	NE	1	o	*	o	*	79	66	—
	Biarritz ...	29·97	71	NE	4	b	30·04	+ ·07	68	65	− 1	W	4	o	2	b	*	75	64	—
Penin-sula.	Corunna ...																*			
	Lisbon	30·11	64	NNW	3	b	30·05	−·10	68	60	+ 1	W	2	bc	*	b	*	77	63	—
	Azores (P. Delgada)	30·39	66	NNE	4	b	30·38	+ ·08	68	64	0	NE	4	bc	3	b	*	75	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 14·4 hrs;

WEATHER CHARTS

FOR Sunday, 17th July, 1898

BAROMETER, WIND AND SEA.

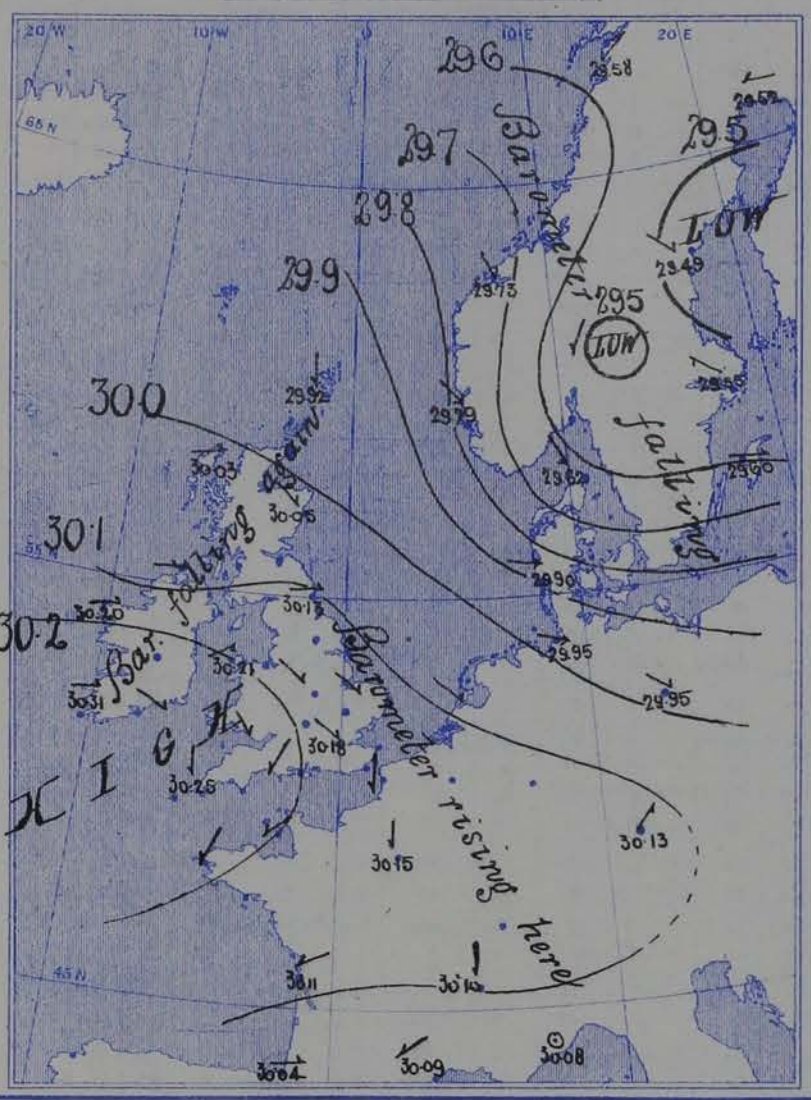
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

Force 8 to 10 ⟩⟶ ;

SEA—Rough ▤ ; High ▩



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest. 30·2 in: and upwards over Ireland, Wales, the southwest of England and the northwest of France; 30·0 in: and upwards, in an anticyclone covering the whole of our Islands, France and the Netherlands, as well as the greater part of Germany.
Lowest, 29·5 in: and less, in a depression over the Gulf of Bothnia, and also in a small secondary system near Karlstad.
Gradients slight generally, but moderate over Denmark and the south of Scandinavia.
Barometer rising in most part of our Islands and France, but beginning to fall on our extreme western coast.

TEMPERATURE

Highest, 72° at Prawle Point and Hurst Castle, 71° at Nice, 70° at Lyons, 69° at Rochefort, and 68° at Jersey and Biarritz.
Lowest, 49° at Sumburgh Head, 51° at Bodö and Christiansund, 52° at Skudenaes and 53° at Ardrossan.
During yesterday the thermometer rose to between 75° and 80° over the Central and southern parts of England generally, and to 81° in London and at Cambridge.

WIND

Light to moderate from the W.ᵗᵈ or NW.ᵗᵈ over the greater part of our Islands, and strong from the same quarters on the eastern shores of the North Sea; variable in Sweden.
Light from the N.ᵗᵈ over the Channel and Central France, and from the NE.ᵗᵈ or E.ᵗᵈ in the Bay of Biscay.

WEATHER

Fine over England, the Netherlands, and the greater part of France.
Cloudy or dull in the west and north of our Islands and also in Scandinavia, rain falling at Ardrossan and also at Bodö and passing showers at Ardrossan.
A little rain fell yesterday at several of our northern stations, as well as in many parts of Scandinavia and Denmark.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 18th July, 1898

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	NONE ISSUED.
5 ENGLAND SOUTH		WARNINGS	

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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·91	52	51	S	2	?	2	Valencia	30·29	66	61	NW	3	bv	4
Sumburgh Head	29·84	52	51	W	3	0	4	Scilly	30·19	69	63	NNE	2	bc	0
Stornoway	29·98	58	54	NW	5	bc	5	Jersey	30·14	75	65	NNW	2	b	2
Aberdeen	29·96	61	56	SE	1	c	1	Hurst Castle ...	30·12	73	67	SW	3	bcm	1
Shields	30·08	68	62	W	4	c	2	Dungeness ...	30·09	68	63	SW	2	b	1
Ardrossan	30·09	60	59	WSW	3	0	3	North Foreland	30·11	70	63	NE	1	c	0
Malin Head ...	30·12	60	59	W	5	0	5	London (Westminster)	30·11	77	65	WSW	2	bc	*
Belmullet	30·25	65	61	W	3	0	*	Yarmouth ...	30·09	69	62	NNE	3	b	2
Holyhead	30·21	71	63	W	2	b	1	Rochefort ...	29·99	84	81	NNW	2	b	*

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

Weather in morning fine over Western and Southern Europe generally, but dull at several of our more northern stations. Cloudy or dull in many parts of Scandinavia, Russia, and Eastern Germany, with rain at Christiansund, Hernösand, and Stockholm. A little rain falling later at several stations in the north of our Islands and also in Sweden, no important change occurring elsewhere.

Temperature varies in most of the western countries, changed irregularly elsewhere. Morning readings highest 76° at Constantinople and Algiers, and 75° at Brindisi, Palermo, and Patras; above 70° in many parts of southern Europe and also in Jersey and above 65° at several of the English stations. Lowest 48° at Hernösand, 49° at Stockholm, 52° at Bodö and 53° at Christiansund. Rising during day to between 75° and 80° at most of our more central and southern stations, and to 81° in London and at Cambridge. Exceeding 80° in many parts of France and reaching 88° at Lorient.

Wind light to moderate from the W^{wd} in the northern parts of our Islands, and from the NW^{wd} or N^{wd} in the south of Ireland; variable in the south of England. E^{ly} or NE^{ly} over the greater part of France, but W^{ly} or SW^{ly} over the Spanish Peninsula. NW^{ly} over Scandinavia and Denmark, with a gale at Hirby; light to moderate from the W^{wd} or NW^{ly} over Germany and Austria; N^{ly} in Italy. No important change occurring over Western Europe during day.

Barometer highest 30·1 ins: to 30·2 ins: and upwards in an anticyclone covering Ireland England, and the western and central parts of the Continent as a whole, but below 30·0 ins: in a shallow depression over the southwest of France. Lowest 29·6 ins: and less, in a depression over the Gulf of Bothnia, Finland, and the Baltic Provinces; 29·9 ins: and less, in another disturbance to the northward of our Islands. Depression off north of Scotland subsequently moving eastwards over the northern parts of Scandinavia.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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SCANDINAVIA. BRITISH ISLANDS. PENINSULA. FRANCE & BELGIUM. GERMANY & HOLLAND

DAILY WEATHER REPORT

for 8 a.m. on Monday, 18th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.54	56	SW	0	b	29.63	+.11	59	55	- 1	SW	0	c	*	b	*	66	50	0.20
	Hernösand ...	29.58	56	SW	0	r	29.67	+.18	58	51	+ 3	NW	6	b	*	r	*	66	48	-
	Stockholm ...	29.56	55	NE	2	0	29.69	+.14	59	55	0	N	2	b	*	0	*	?	50	0.67
	Wisby	29.56	55	WNW	4	c	29.71	+.11	57	54	0	N	6	b	*	c	*	61	52	0.20
	Karlstad ...	29.63	55	W	2	bc	29.76	+.26	55	50	+ 1	NNE	2	b	*	bc	*	*	*	0.51
	Bodö	29.65	53	W	2	c	29.70	+.12	53	49	+ 2	SW	0	b	0	c	*	55	46	-
	Christiansund ...	29.78	53	NW	4	c	29.76	+.03	51	48	0	WSW	5	0	3	c	*	55	46	0.20
	Skudesnaes ...	29.90	52	NW	4	c	29.76	-.03	51	49	- 1	SW	0	0	1	c	*	55	45	*
	Færder (Christiania Fjord)	29.68	58	WNW	4	b	29.75	+.19	55	50	+ 1	NNE	2	b	3	b	*	57	50	0.24
	Skagen (The Scaw)	29.74	55	W	2	b	29.78	+.16	55	51	- 1	WNW	3	0	0	b	*	61	54	0.08
	Fanö	29.95	54	WNW	1	c	29.86	-.04	57	50	- 6	S	2	r	*	c	*	59	57	0.08
	Sumburgh Head	29.92	51	NW	2	c	29.65	-.27	47	47	- 2	ENE	3	r	4	c	*	53	46	0.07
	Stornoway ...	29.76	52	SE	4	r	29.59	-.44	56	55	+ 2	W	3	0	3	r	0.6	57	49	0.30
	Wick	29.90	56	S	5	r	29.59	-.48	51	50	- 4	W	1	0	1	d	*	59	49	0.62
	Nairn	29.79	54	SW	0	r	29.60	-.46	57	56	+ 1	W	2	0	1	r	*	60	50	0.43
	Aberdeen ...	29.93	52	SSE	2	o gr m	29.60	-.45	62	57	+ 5	W	1	c	1	o.r†	?	63	50	0.20
	Leith	29.97	54	NNW	1	r	29.69	-.39	61	57	+ 4	W	3	r	*	r	*	62	52	0.24
	Shields	30.00	56	SW	0	0	29.74	-.39	65	63	+ 5	WSW	4	0	2	0, r	*	65	55	0.04
	Spurn Head ...	30.07	63	W	4	bc	29.83	-.31	64	62	+ 4	WSW	5	c	4	bc	*	66	58	-
	York	30.09	65	NNW	3	0	29.84	-.31	66	62	+ 6	W	4	c	*	0, c	4.5	68	59	-
	Loughborough ...	30.11	72	NNW	2	c	29.95	-.23	66	61	0	WSW	3	bc	*	c, bc, cq	*	75	59	-
British Islands.	Ardrossan ...	29.96	61	WSW	4	o p	29.74	-.36	60	58	+ 7	W	5	0	4	o p	*	61	59	0.08
	Malin Head ...	29.93	62	W	6	o m	29.77	-.29	57	56	- 2	NNW	6	cq p	5	o m	*	62	54	0.07
	Belmullet ...	30.06	63	WSW	5	0	29.91	-.29	58	57	- 3	NNW	5	0	*	0	*	67	56	0.06
	Donaghadee ...	30.03	68	SW	5	c	29.82	-.33	64	60	+ 5	WSW	5	c	3	c	*	70	58	0.06
	Liverpool (Bidston)	30.10	66	WSW	3	0	29.89	-.30	67	63	+ 7	SW	3	0	4	o m	*	68	59	-
	Holyhead ...	30.14	63	SW	3	c m	29.92	-.29	60	59	- 2	SW	4	o m	3	c m	*	67	57	-
	Parsonstown ...	30.14	65	W	2	c	29.95	-.29	63	60	- 2	W	1	0	*	c, r	5.8	70	60	0.02
	Valencia ...	30.22	64	WSW	3	o m	30.05	-.26	63	62	+ 1	WSW	3	o m	3	c. o	2.9	66	61	0.04
	Roche's Point ..	30.18	72	NW	3	b	30.04	-.26	67	64	+ 5	W	3	c	3	b	*	72	60	-
	Pembroke (St. Ann's Hd.)	30.19	62	WNW	3	b	30.04	-.21	61	60	- 1	W	5	o q	4	b	13.4	65	57	-
	Scilly	30.25	66	NNW	3	b c m	30.14	-.11	64	62	0	W	3	c	2	b c m	14.2	68	60	-
	Prawle Point ..	30.18	70	NW	2	b	30.12	-.12	62	58	- 10	SSW	3	b	2	b	*	72	51	-
	Jersey (St. Aubin's)	30.18	72	NNW	3	b c m	30.15	-.06	67	62	- 1	WNW	2	b m	2	b, b c m	*	77	54	-
	Hurst Castle ...	30.16	66	SW	3	c m	30.09	-.12	65	62	- 7	SW	2	b c m	1	c m	*	74	57	-
	Dungeness ...	30.14	65	SW	3	c	30.06	-.10	63	61	- 4	SW	3	c	2	b c. c	*	73	59	-
	North Foreland	30.15	68	SW	3	b c	30.03	-.14	68	61	+ 5	SW	3	b	2	b c	*	73	59	-
	London (Boston) ...	30.13	74	WNW	1	c	30.03	-.15	66	61	0	WSW	2	b	*	b c. c. b	5.0	76	57	-
	Oxford	30.12	70	SW	1	c	30.02	-.18	66	62	+ 1	SW	4	b c	*	c	*	76	56	-
	Cambridge ...	30.11	71	SW	1	0	29.98	-.19	66	61	+ 1	SW	3	b c	*	b c. 0	6.9	73	54	-
	Yarmouth ...	30.13	62	SE	3	b c	29.94	-.19	67	61	+ 4	W	4	b c	3	b c	*	67	56	-
Germany & Holland	Cuxhaven ...	30.02	58	WNW	6	b c	29.93	-.02	54	53	- 5	SSW	2	r	*	b c	*	61	54	0.16
	Berlin	29.97	60	NW	4	b	30.06	+.11	55	51	- 4	W	3	0	*	b	*	70	50	0.12
	Wiesbaden ...	*	*	*	*	*	30.15		60	55		N	1	b	*	*	*	75	52	-
	Munich	30.16	66	W	2	c	30.21	+.08	64	60	- 2	NE	2	b	*	c	*	77	54	-
	The Helder ...	30.11	59	WSW	1	b	29.93	-.13	62	60	+ 2	WSW	3	c	2	b	*	63	58	-
Belgium. France &	Brussels ..	*	*	*	*	*	30.11	-.04	62	57	- 2	SW	3	b	*	b	*	72	53	-
	Cape Gris Nez	?	65	SW	1	m	?	?	62	60	- 1	SW	3	b	4	m	*	73	59	-
	Paris ...	30.13	74	NE	2	b	30.13	-.02	65	61	0	NE	1	m	*	b	*	81	55	-
	Brest	30.17	72	NE	2	b	30.17	-.02	60	59	- 3	NNE	1	b	1	b	*	79	54	-
	Lorient	30.13	73	NE	4	b	30.12	-.03	62	59	- 3	NE	2	b	2	b	*	88	59	-
	Rochefort ...	30.00	?	ENE	1	b	30.03	-.08	69	66	0	ENE	2	b	*	b	*	?	66	-
	Belfort	30.07	75	N	1	m	30.16	+.10	62	58	- 3	ENE	1	m	*	m	*	82	55	-
	Lyons ...	30.04	82	N	1	b	30.09	-.01	70	64	0	N	1	b	*	b	*	89	63	-
	Nice	30.07	71	SW	2	b	30.08	.00	71	64	0	W	0	b	0	b	*	81	64	0.24
	Perpignan ...	30.05	72	SE	2	b	30.10	+.01	66	66	- 2	NE	2	0	*	b	*	79	65	-
	Biarritz ...	29.97	71	N	3	b	29.98	-.06	69	67	+ 1	W	0	z l r	1	b	*	73	64	-
Peninsula.	Corunna ...																*			
	Lisbon	29.99	66	WNW	4	b	30.02	-.03	68	61	0	S	3	0	*	b	*	73	64	-
	Azores (P. Delgada)	30.35	69	NE	4	b c	30.32	-.06	70	64	+ 2	NE	4	c	2	b c	*	75	66	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 1.0 hrs;

WEATHER CHARTS

FOR Monday, 18th July, 1898

BAROMETER, WIND AND SEA.

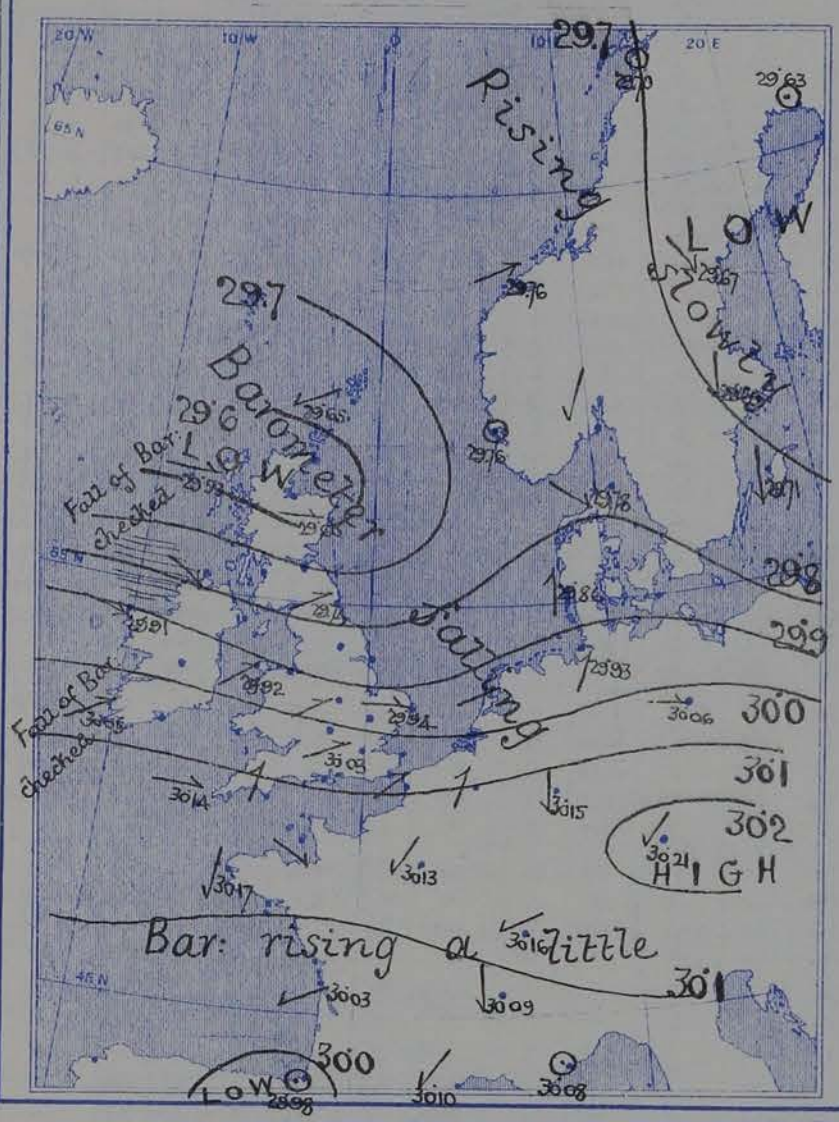
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ≋ : High ▨

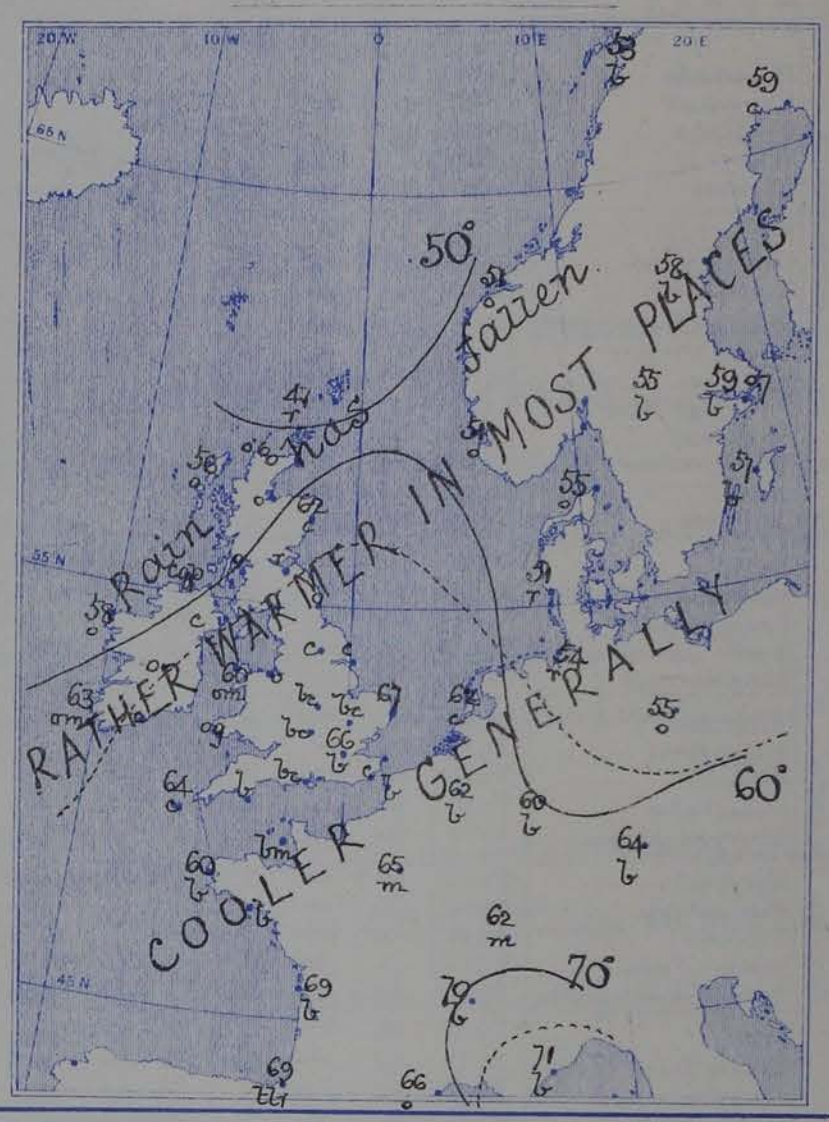


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes:				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·1 ins. and upwards in a long band stretching from the Atlantic over the English Channel, the northern parts of France and the greater part of Germany.
Lowest, 29·6 ins. and less, in a depression over the north of Scotland.
Gradients moderate over our Islands and the North Sea, but slight elsewhere.
Barometer falling over the greater part of our Islands and their immediate neighbourhood, but fall checking on our extreme southern coasts.

TEMPERATURE

Highest, 71° at Nice, 70° at Lyons, 69° at Rochefort and Biarritz, 68° at the North Foreland, and 67° at Liverpool, Roche's Point, Jersey and Yarmouth.
Lowest, 47° at Dunbugh Head, 51° at Christiansund, Skudesnaes and Faroe, 53° at Bodö, and 54° at Cerbourg.
During yesterday the thermometer rose to 75° and upwards at several of our central and southern stations and to 77° at Jersey.

WIND

Light to fresh from the W. or SW. over our Islands and the Netherlands; light from the S. in Holstein.
N. or NW. in Sweden, and strong in force at Hernösand and Wisby.
Light from the NE. over France and South Germany.

WEATHER

Dull in the western and northern parts of the United Kingdom, as well as in Denmark, North Germany, and the west of Norway; rain falling at Leith, and also at Lerwick and Cape Wrath.
Fine in nearly all other parts of our area, but dull at some of the southern French stations, with a thunderstorm at Biarritz.
Since yesterday morning rain has fallen over nearly the whole of Ireland and Scotland, as well as in Scandinavia, Denmark and North Germany, the largest amounts being 0·7 in. at Stockholm and 0·6 in. at Wick.

SEA

Moderate to smooth generally, but rather rough at Malin Head.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the north of Scotland is apparently moving eastwards, but is at the same time inclined to spread down in a southeasterly direction. Some extension of cloudy unsettled weather is probable, but it is at present doubtful whether our extreme southern districts will be materially affected during the ensuing twenty four hours.

FORECASTS

For the 24 hours ending at NOON on 19TH JULY, 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W. to NW. winds, freshening; cloudy, showery.
1	SCOTLAND EAST	
2	ENGLAND N.E.	W. winds, fresh, cloudy, showery.
3	ENGLAND EAST	SW. to W. winds, moderate or fresh; fine at first, cloudy later, possibly thundershowers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	W. to NW. winds, strong; squally, some showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	W. to NW. winds, moderate; fair generally.
9	IRELAND NORTH	NW. winds, strong; squally, showery.
10	IRELAND SOUTH	Same as No 8.
	WARNINGS	At 7·20 pm yesterday to districts 6, 7 & 9 "Hoist North Cone"

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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ..	29·86	55	52	NW	6	c	2
Sumburgh Head							
Stornoway	29·94	54	51	SSW	3	r	3
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·02	61	60	W	6	o m	3
Belmullet	30·12	65	62	WSW	5	o	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F	WEA.	SEA.
Valencia							
Scilly							
Jersey	30·21	75	65	NNE	3	b	3
Hurst Castle ...							
Dungeness ...	30·14	67	62	SW	3	bc	2
North Foreland	30·17	72	62	NNW	3	bc	1
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·03	?	?	ENE	1	b	*

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

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 10TH TO THE 16TH JULY 1898.

At the commencement of this week the northwestern countries were under the influence of a large anticyclone having its central area over Ireland and Scotland, the wind being mainly from the N^W or NE^W, and the weather fair and dry. Over Eastern and Central Europe, however, the conditions were influenced by a complex depression over Russia, the wind showing a distinct cyclonic circulation, with dull weather in most places, and considerable falls of rain over Germany.

On the 11th however, the anticyclone moved away temporarily to the westward, while a large shallow depression advanced from the Atlantic over the northern parts of Scandinavia. Small secondary systems were also developed further southward and the wind over northwestern Europe backed to the W^W, with cloudy weather and showers in most districts. Later on as the depression in the far north moved eastwards the anticyclone again spread to all the more western countries, and the weather over Great Britain and France became warm for the time of year the thermometer in many places exceeding 80° on the 15th and 16th. Over northern Europe, however, the weather was affected by a secondary depression which formed over the south of Sweden on the 13th and which afterwards increased considerably in depth and moved eastwards. These changes were attended by heavy rains in many parts of Sweden, and in the rear of the disturbance a gale from NW. sprang up over Denmark, the Baltic, and the south of Scandinavia.

Over southern Europe the week was, upon the whole, fine, warm and dry, but on the 14th when a depression was formed temporarily over the Gulf of Genoa, a very heavy fall of rain occurred over northern Italy and the neighbouring parts of Austria.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 8 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Tuesday, 19th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.60	55	E	0	b	29.56	-.07	64	57	+5	W	2	c	*	b	*	70	48	-
	Hernösand ...	29.66	55	E	0	b	29.57	-.10	58	51	0	N	2	b	*	b	*	68	50	-
	Stockholm ...	29.70	58	E	0	b	29.55	-.14	60	55	+1	SSE	4	0	*	b	*	68	50	0.04
	Wisby	29.73	56	S	4	b	29.51	-.20	54	53	-3	SSE	4	r	*	b	*	63	50	0.32
	Karlstad ...	29.64	58	S	2	0	29.43	-.33	53	52	-2	NE	4	r	*	0	*	*	*	0.08
	Bodö	29.70	51	N	1	b	29.68	-.02	52	46	-1	N	1	b	0	b	*	55	46	-
	Christiansund ...	29.66	55	NNE	3	0	29.55	-.21	51	50	0	NE	5	r	3	0	*	55	45	1.10
	Skudesnaes ...	29.58	51	NNW	6	0	29.68	-.08	51	47	0	NNW	6	bc	2	0	*	54	46	*
	Færder (Christiania Fjord)	29.60	56	SSE	4	0	29.46	-.29	52	49	-3	N	4	0	2	0	*	61	50	0.55
	Skagen (The Scaw)	29.53	58	SSW	3	0	29.49	-.29	54	50	-1	NW	4	0	1	0	*	63	52	0.12
	Fanö	29.65	58	WSW	4	c	29.69	-.19	53	51	+2	NW	6	0	*	c	*	61	51	0.20
	Sumburgh Head	29.71	50	N	3	c	29.86	+.21	47	45	0	NW	3	bc	4	0,c	*	53	44	0.05
	Stornoway ...	29.80	52	NE	4	0	29.99	+.40	50	47	-6	E	3	0	3	0	0.0	56	43	0.05
	Wick	29.76	51	E	4	bc	29.93	+.34	57	55	+6	N	2	c	1	bc	*	59	40	0.09
	Nairn	29.76	52	ENE	3	0	29.98	+.38	53	48	-4	E	1	c	1	0	*	63	44	0.10
	Aberdeen ...	29.64	59	NW	4	cq	29.95	+.35	52	47	-10	NW	2	c	2	qq.p.c	1.4	66	46	0.02
British Isles	Leith	29.70	62	W	4	c	29.96	+.27	54	49	-7	ENE	2	0	*	c	*	66	50	0.06
	Shields	29.75	62	WSW	3	c	29.94	+.20	52	49	-13	N	3	0	3	op,r	*	69	49	0.02
	Spurn Head ...	29.78	64	WNW	6	c	29.91	+.08	55	53	-9	NNE	4	0	4	c	*	71	55	-
	York	29.80	65	W	6	bc	29.92	+.08	55	52	-11	ENE	1	0	*	bc	5.1	72	52	-
	Loughborough ...	29.85	71	WSW	3	c	29.92	-.03	62	58	-4	NW	2	0	*	cq.bc.o	*	77	58	-
	Ardrossan ...	29.77	58	NNW	3	0	29.94	+.20	53	50	-7	ENE	4	0m	2	0	*	61	50	-
	Malin Head ...	29.80	57	W	6	omr	29.93	+.16	55	54	-2	N	3	c gm	2	c.omr	*	58	53	0.04
	Belmullet ...	29.93	58	WNW	3	0	29.98	+.07	57	55	-1	ENE	2	0m	*	0	*	62	54	0.04
	Donaghadee ...	29.83	62	WSW	4	c	29.94	+.12	58	56	-6	NNW	4	c	2	c	*	67	55	0.01
	Liverpool (Bidston)	29.86	62	W	3	0	29.91	+.02	57	56	-10	W	2	r	3	op	*	69	56	0.02
	Holyhead ...	29.89	63	W	3	c	29.94	+.02	58	57	-2	WNW	2	0	1	bc.c	*	69	56	0.03
	Parsonstown ...	29.94	61	W	2	0	29.95	.00	59	56	-4	NW	1	0	*	c.0	5.5	66	56	-
	Valencia ...	30.04	68	WNW	4	b	29.97	-.08	59	58	-4	NW	1	0m	2	0,b	5.0	64	56	0.03
	Roche's Point ..	29.97	68	NNW	3	b	29.99	-.05	61	59	-6	SE	1	c	2	b	*	72	57	-
	Pembroke (St. Ann's Hd)	29.93	61	WNW	5	0	29.97	-.07	60	57	-1	NW	4	b	4	c.0	2.1	64	57	-
	Scilly	30.06	64	WSW	4	f	30.01	-.13	63	61	-1	WSW	1	0	2	c,f	5.2	71	59	-
	Prawle Point ...	30.04	65	WSW	3	c	30.00	-.12	62	60	0	WSW	2	c	2	c	*	68	57	-
	Jersey (St. Aubin's)	30.09	66	W	4	b	30.02	-.13	63	60	-4	WNW	3	cm	3	b,gp	*	68	61	0.01
	Hurst Castle ...	29.97	66	WSW	4	c	29.97	-.12	62	60	-3	W	2	cm	1	bm.cm	*	69	60	-
	Dungeness ...	29.92	63	WSW	5	c	29.93	-.13	63	61	0	WSW	3	0	2	c	*	67	59	-
	North Foreland	29.90	72	SW	4	c	29.94	-.09	62	60	-6	W	3	0	2	bc.c	*	79	58	-
	London (Brixton) ...	29.90	72	W	2	c	29.94	-.09	63	60	-3	WNW	1	0	*	bc.b,r	9.4	81	60	0.04
	Oxford	29.91	63	WSW	4	bc	29.94	-.08	62	58	-4	WNW	2	c	*	bc.p	*	73	58	0.06
	Cambridge ...	29.84	72	WSW	4	b	29.93	-.05	62	60	-4	W	1	0	*	b	9.3	78	58	0.08
	Yarmouth ...	29.81	74	W	4	b	29.88	-.06	62	57	-5	NW	3	c	3	b	*	75	58	-
Germany & Holland.	Cuxhaven ...	29.78	64	WSW	5	0	29.75	-.18	59	58	+5	WNW	5	cp	*	0	*	64	54	0.12
	Berlin	29.85	64	SW	3	0	29.77	-.29	64	62	+9	W	4	0	*	0	*	66	55	0.12
	Wiesbaden ...	*	*	*	*	*	29.94	-.21	64	60	+4	NW	1	b	*	*	*	79	55	-
	Munich	30.09	68	E	1	b	30.07	-.14	70	64	+6	W	4	b	*	b	*	77	57	-
	The Helder ...	29.78	63	WSW	3	bc	29.84	-.09	60	57	-2	WNW	2	0	2	bc	*	66	60	-
France & Belgium.	Brussels ...	*	*	*	*	*	29.93	-.18	63	61	+1	WSW	2	0	*	b	*	78	59	-
	Cape Gris Nez ...	?	62	WSW	4	bc	?	?	61	59	-1	W	1	f	1	bc	*	66	57	-
	Paris	30.00	78	W	1	b	30.01	-.12	63	61	-2	N	1	0	*	b	*	84	57	-
	Brest	30.10	66	N	2	b	30.05	-.12	62	61	+2	N	1	c	1	b	*	72	57	-
	Lorient	30.03	75	N	4	b	30.05	-.07	62	62	0	N	3	0	2	b	*	86	57	-
	Rochefort ...	29.93	82	NNW	3	b	29.92	-.11	70	68	+1	NE	3	c	*	b	*	?	68	-
	Belfort ...	29.95	76	WSW	1	m	29.95	-.21	69	62	+7	W	1	m	*	m	*	82	59	-
	Lyons ...	29.98	87	SE	1	bv	29.98	-.11	73	62	+3	S	1	bc	*	bv	*	91	64	-
	Nice	30.04	71	SW	2	b	30.08	.00	65	63	-6	E	1	c	0	b	*	81	61	-
	Perpignan ...	29.95	69	E	2	t	30.04	-.06	70	68	+4	W	2	c	*	t	*	79	65	-
	Biarritz ...	29.89	63	ENE	2	bc	29.95	-.03	70	70	+1	WSW	3	bc	2	bc	*	80	68	-
Penin-sula.	Corunna ...																*			
	Lisbon														*		*			
	Azores (P. Delgada)	30.31	68	NE	4	bc	30.28	-.01	70	66	0	NE	4	bc	2	bc	*	75	66	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 3.5 *hrs;*

WEATHER CHARTS

FOR Tuesday, 19th July, 1898

BAROMETER, WIND AND SEA.

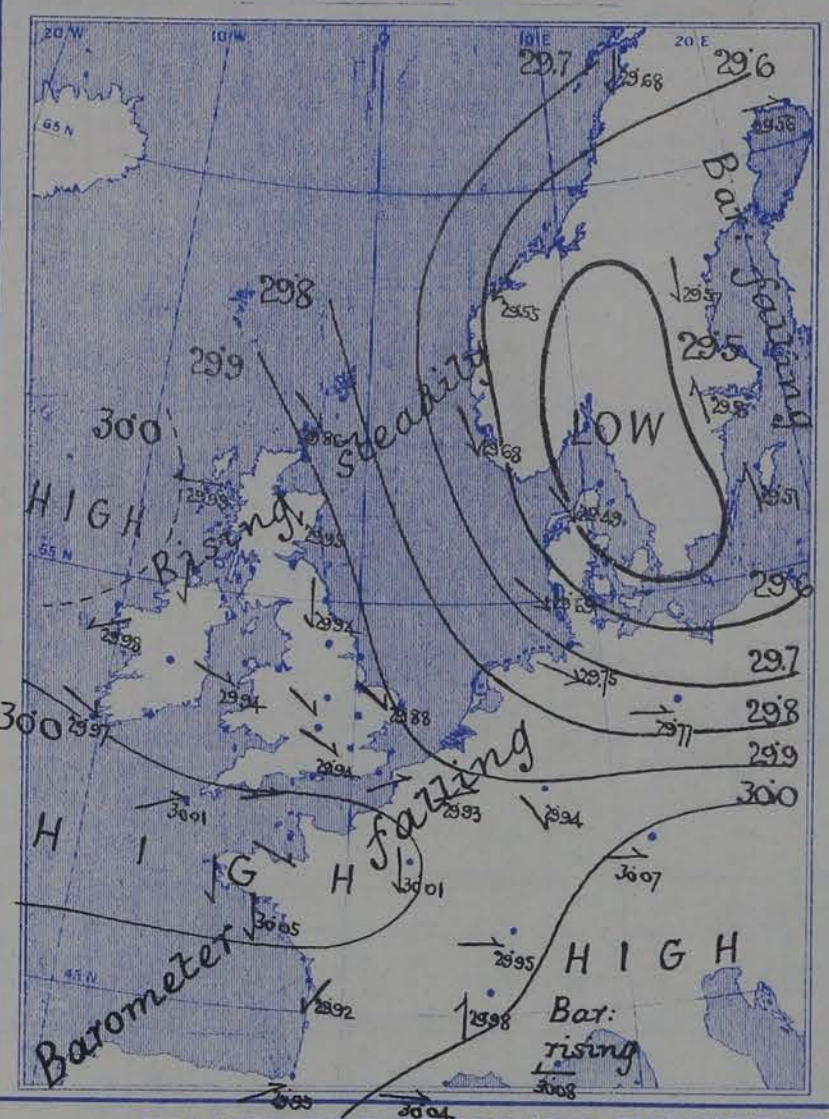
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ▤ ; High ▩

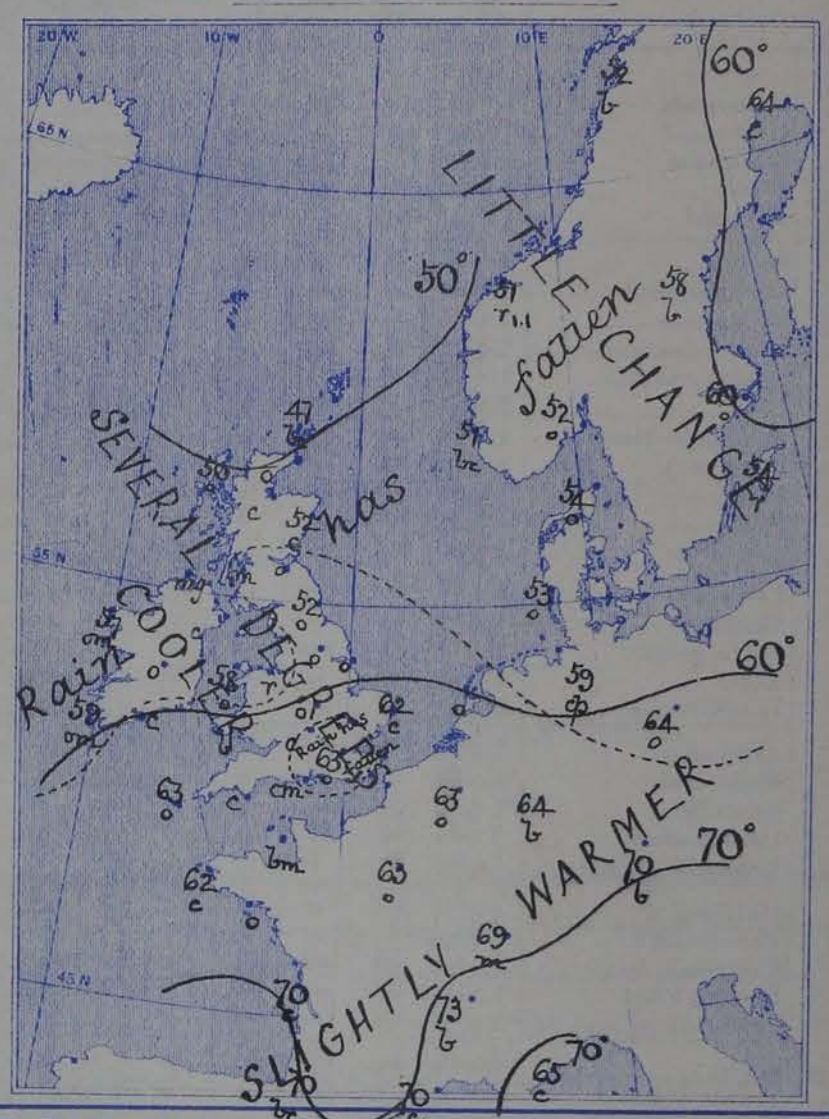


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29 896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	—	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	3·59	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·82	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·37	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·99	—	—
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	2·98	136·5	27
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	4·23	153·8	31
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	3·18	—	—
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·53	199·7	40
Prawle Point	29·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·47	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·39	—	—
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·54	230·0	48
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·39	—	—
LONDON	29 953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·05	—	—
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·48	162·0†	33†
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·68	185·5	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·62	189·6	38
										2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·0 ins: and more over Britany, the mouth of the Channel, and the extreme southeastern parts of our Islands.
Lowest, Belair 29·5 ins: in a depression lying over the southern half of Scandinavia.
Gradients slight over our Islands and France.
Barometer rising at all our northern stations, falling in the south and over the Continent generally.

TEMPERATURE

Highest, 73° to 70° over the southern parts of France and Germany, 63° to 60° over the southern parts of our Islands.
Lowest, 47° at Lerwick Head, 50° at Stornoway, 52° at Aberdeen.
The highest of the maxima recorded yesterday were 77° at Loughborough, 78° at Cambridge, 81° in London, 82° at Belfort, 84° at Paris.
The night was warm all over England.

WIND

Light and very variable from between W. and NW. over our Islands, more N'ly over France; NW'ly and showery on the eastern shores of the North Sea; S'ly in the southeast of Sweden
It blew freshly at times from the SW'ds in several parts of England yesterday.

WEATHER

Fair, but not settled, over our Islands as a whole, rainy at Liverpool, fine over the greater part of France and Germany, but showery at Cuxhaven.
Some rain has fallen over the northern, northwestern, and central parts of the Kingdom, and a large quantity in some parts of Sweden & Denmark.
The amount of sunshine recorded yesterday was large (9 to 13 hrs) over the southern and southeastern parts of England yesterday, slight on our northwestern and western coasts.

SEA

Slight to smooth on our coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Some slight showers are probable, very locally, in various parts of our Islands today, but as a whole fair weather is likely.

FORECASTS

For the 24 hours ending at NOON on 20th JULY, 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Very light and Variable breezes; fair as a whole.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	Light W'ly and Variable airs; fine generally.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Variable and N'ly or NW'ly breezes, light; slight showers then fair.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	
	WARNINGS	At 3·50 pm to districts 6.7. and 9 "Lower Cone"

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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.65	53	48	W	2	0	1
Sumburgh Head	29.66	50	48	NE	3	0	4
Stornoway	29.68	53	52	E	4	0	4
Aberdeen	29.59	64	56	W	2	0 qq	1
Shields	29.73	64	62	WSW	4	0 p	2
Ardrossan	29.75	58	57	SW	3	0	3
Malin Head ...	29.77	57	56	W	6	c	5
Belmullet	29.92	59	57	W	3	0	*
Holyhead	29.90	67	61	W	5	bc	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.04	64	60	W	4	0	4
Scilly	30.10	70	61	SW	8	c	5
Jersey	30.11	66	61	W	3	b	3
Hurst Castle ...	30.02	68	64	WSW	5	bm	3
Dungeness ...	29.95	65	61	WSW	4	c	3
North Foreland	29.93	76	66	SSW	4	bc	3
London (Westminster)	29.93	79	67	W	4	c	*
Yarmouth ...	29.83	74	66	W	4	bc	3
Rochefort ...	29.99	?	?	ENE	2	b	*

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

Weather in morning fine and bright over the Mediterranean and nearly the whole of France, central, and southeastern Europe, changeable and rather unsettled over the northern and northwestern countries, with rain at several of our own northern stations, as well as in Holstein, and at Neufahrwasser and Archangel. Rain falling later over all the northern and eastern parts of our Islands, and large quantities in Scandinavia and Denmark.

Temperature in morning highest 80° at La Calle, 78° at Pakas, and at Bilbao, and exceeding 70° over the Mediterranean generally, 67° at Jersey and Rochefort, 66° over Central England; 65° at Archangel also. Lowest 47° at Sumburghhead, 51° at Wilhelmshaven, Christiansund Skudenaes and Paris, and 55° at Berlin, Rising to between 77° and 81° over the inland parts of England later, to 78° at Brussels, 82° at Belfort and 84° at Paris, but not exceeding 66° at Berlin

Wind exceedingly light and variable over all the southern countries; light to strong and variable in the north. (1) W° and SW° over the British Islands, S° in Holstein, (2) N° over Sweden, W° at Neufahrwasser and Memel, but E° and very light over the north of Russia

Barometer highest 30·1 ins: and more to 30·0 ins: over the southern parts of our Islands, and the whole of the Mediterranean, Spain, France, the west and south of Germany, and southeastern Europe. Lowest 29·6 ins: and less, in three depressions – one over the north and northeast of Scotland, another over the Gulf of Finland, and a third over the north of Russia and the White Sea. The Scotch depression moving southeastwards, and Barometer beginning to rise at our northern and northwestern stations.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Wednesday, 20th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.54	59	S	0	b	29.55	-.01	61	56	-3	S	0	bc	*	b	*	68	48	-
	Hernösand ...	29.55	55	S	0	b	29.54	-.03	58	53	0	N	4	bc	*	b	*	66	43	-
	Stockholm ...	29.45	54	NNE	2	0	29.49	-.06	57	55	-3	WNW	2	0	*	0	*	61	52	-
	Wisby	29.50	58	NW	6	0	29.58	+.07	55	53	+1	W	6	b	*	0	*	?	48	0.08
	Karlstad ...	29.50	55	NW	2	0	29.56	+.13	51	50	-2	WNW	2	0T	*	0	*	*	*	-
	Bodö	29.64	55	S	0	b	29.69	+.01	53	46	+1	SW	2	b	1	b	*	59	50	-
	Christiansund ...	29.70	49	ESE	2	r	29.85	+.30	51	46	0	NW	3	0	3	r	*	54	46	1.38
	Skudesnaes ...	29.80	53	NNW	6	bc	29.88	+.20	51	48	0	NNW	6	b	2	b,bc	*	56	46	*
	Færder (Christiania Fjord)	29.53	58	NNW	1	c	29.62	+.16	52	48	0	NNW	4	0	3	c	*	59	52	-
	Skagen (The Scaw)	29.57	57	W	3	b	29.65	+.16	57	50	+3	NW	3	b	0	b	*	64	52	-
	Fanö	29.82	53	NW	6	c	29.87	+.18	53	50	0	NW	6	c	*	c	*	59	50	-
	Sumburgh Head	29.96	51	NW	3	bc	29.98	+.12	51	47	+4	NNW	2	0	4	bc	*	53	46	-
	Stornoway ...	30.05	56	NNE	3	bc	30.10	+.11	52	49	+2	NW	2	c	2	c,bc	8.5	58	45	-
	Wick	30.06	59	NW	3	b	30.01	+.08	53	50	-4	NW	2	0	1	b	*	57	40	-
	Nairn	30.07	54	E	2	c	30.13	+.15	52	48	-1	W	1	c	1	c	*	59	44	-
	Aberdeen ...	30.04	53	NNW	2	c	30.12	+.17	53	46	+1	NW	1	c	1	c	4.8	56	38	-
British Islands.	Leith	30.02	60	E	1	c	30.12	+.16	61	53	+7	SW	1	c	*	c	*	62	47	-
	Shields	30.05	53	NNE	3	c	30.14	+.20	54	50	+2	NNW	2	c	2	0.c	*	56	45	-
	Spurn Head ...	30.02	55	NNE	3	c	30.11	+.20	56	49	+1	N	4	bc	4	c	*	58	50	-
	York	30.03	57	NE	1	0	30.15	+.23	53	50	-2	N	1	b	*	0	0.0	61	42	-
	Loughborough ...	30.01	55	NE	2	0	30.15	+.23	56	50	-6	ENE	2	bw	*	pg,q,b	*	63	49	0.08
	Ardrossan ...	30.00	62	W	2	bm	30.13	+.19	58	55	+5	SSE	2	bm	1	cm.bm	*	64	47	-
	Malin Head ...	30.02	56	E	3	b	30.12	+.19	59	56	+4	N	1	b	0	b,bc	*	59	53	-
	Belmullet ...	30.03	59	NNE	1	b	30.12	+.14	62	58	+5	E	1	b	*	c,b	*	63	52	-
	Donaghadee ...	30.03	57	SE	3	0	30.15	+.21	59	56	+1	ESE	3	b	1	0	*	60	53	-
	Liverpool (Bidston)	29.98	57	E	2	0	30.13	+.22	57	49	0	E	2	b	2	p,q	*	62	51	-
	Holyhead ...	29.99	59	N	1	c	30.12	+.18	59	54	+1	E	2	b	1	c	*	63	53	-
	Parsonstown ...	29.98	62	S	0	0	30.10	+.15	62	59	+3	E	1	b	*	0	0.0	63	55	-
	Valencia ...	30.01	60	NW	2	b	30.07	+.10	62	58	+3	S	0	bc	2	bc.0	*.9	65	53	-
	Roche's Point ...	29.98	63	SSE	1	c	30.08	+.09	62	59	+1	SE	2	c	2	c	*	67	57	-
	Pembroke (St. Ann's Hd.)	29.99	60	W	3	c	30.06	+.09	57	54	-3	E	4	0g	3	bc.c	11.1	63	56	-
	Scilly	29.96	64	SW	2	cf	30.02	+.01	64	61	+1	NNE	3	b	2	cf	0.5	73	59	0.02
	Prawle Point ...	29.97	60	WSW	2	0	30.02	+.02	58	57	-4	ENE	5	0T	4	0p	*	65	56	0.13
	Jersey (St. Aubin's)	30.01	65	W	3	0q	29.98	-.04	64	63	+1	S	0	fm	0	0.qr	*	68	61	0.29
	Hurst Castle ...	29.96	64	WSW	3	cm	30.05	+.08	60	57	-2	E	4	0m	3	c.cm	*	69	59	-
	Dungeness ...	29.93	62	WSW	3	0p	30.04	+.11	58	54	-5	NE	5	c	4	c.0p	*	70	57	-
	North Foreland	29.97	58	NE	4	0	30.09	+.15	56	51	-6	NE	3	c	2	c,0	*	68	51	0.05
	London (Brixton) ...	29.94	66	NW	1	0q	30.10	+.16	57	53	-6	NE	2	0	*	0q,b	0.7	71	54	-
	Oxford	29.99	60	ENE	1	0	30.12	+.18	53	51	-9	NE	2	0	*	0	*	69	51	-
	Cambridge ...	29.99	58	ENE	1	r	30.13	+.20	57	51	-5	NE	2	b	*	0,r	0.0	65	51	0.03
	Yarmouth ...	29.99	59	NNE	3	c	30.10	+.22	59	52	-3	N	4	b	3	c	*	62	53	-
Germany & Holland.	Cuxhaven ...	29.85	56	W	4	bc	29.94	+.19	54	50	-5	WNW	5	bc	*	bc	*	61	52	0.04
	Berlin	29.82	62	W	2	0	29.96	+.19	57	51	-7	WNW	4	0	*	0	*	68	50	-
	Wiesbaden ...	*	*	*	*	*	30.02	+.08	62	59	-2	N	1	c	*	*	*	77	59	-
	Munich	30.04	64	W	6	t	30.03	-.04	66	62	-4	W	3	0	*	t	*	82	61	0.20
	The Helder ...	29.94	57	N	1	bc	30.04	+.20	57	50	-3	N	1	0	2	bc	*	63	55	-
Belgium.	Brussels ...	*	*	*	*	*	30.07	+.14	54	52	-9	NNE	2	0	*	0	*	69	51	0.04
	Cape Gris Nez ...	?	65	SW	1	0	?	?	57	54	-4	ESE	3	0	3	0	*	70	55	-
	Paris	29.94	73	NNW	3	bc	30.01	.00	58	58	-6	S	0	r	*	bc	*	78	57	0.12
	Brest	30.00	63	NW	1	b	29.99	-.06	61	61	-1	WNW	1	f	0	b	*	70	57	0.04
	Lorient	29.97	69	NW	4	b	30.00	-.05	64	64	+2	NW	3	m	2	b	*	86	57	-
France &	Rochefort ...	29.92	73	NNE	3	b	29.96	+.04	66	65	-4	NW	2	b	*	b	*	?	54	-
	Belfort	29.98	66	S	0	b	30.00	+.05	61	61	-8	E	3	f	*	b	*	86	60	0.16
	Lyons	29.95	77	NNE	1	b	30.00	+.02	70	62	-3	N	1	c	*	b,p	*	87	64	-
	Nice	30.00	72	S	0	b	29.95	-.13	70	66	+5	E	2	b	1	b	*	79	64	-
	Perpignan ...	29.97	74	E	2	0	29.97	-.07	72	69	+2	S	0	b	*	0	*	84	61	-
	Biarritz ...	29.96	70	NNW	3	tlr	29.99	+.04	69	67	-1	WSW	3	0	2	tlr	*	77	68	0.04
Penin-sula.	Corunna ...																*			
	Lisbon	30.06	68	NW	5	b	30.11	+.10	67	62	0	NNE	2	0	*	b	*	75	64	-
	Azores (P. Delgada)	30.32	70	NE	4	bc	30.30	+.02	71	68	+1	ENE	3	c	2	bc	*	75	68	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

FOR Wednesday, 20th July. 1898

BAROMETER, WIND AND SEA.

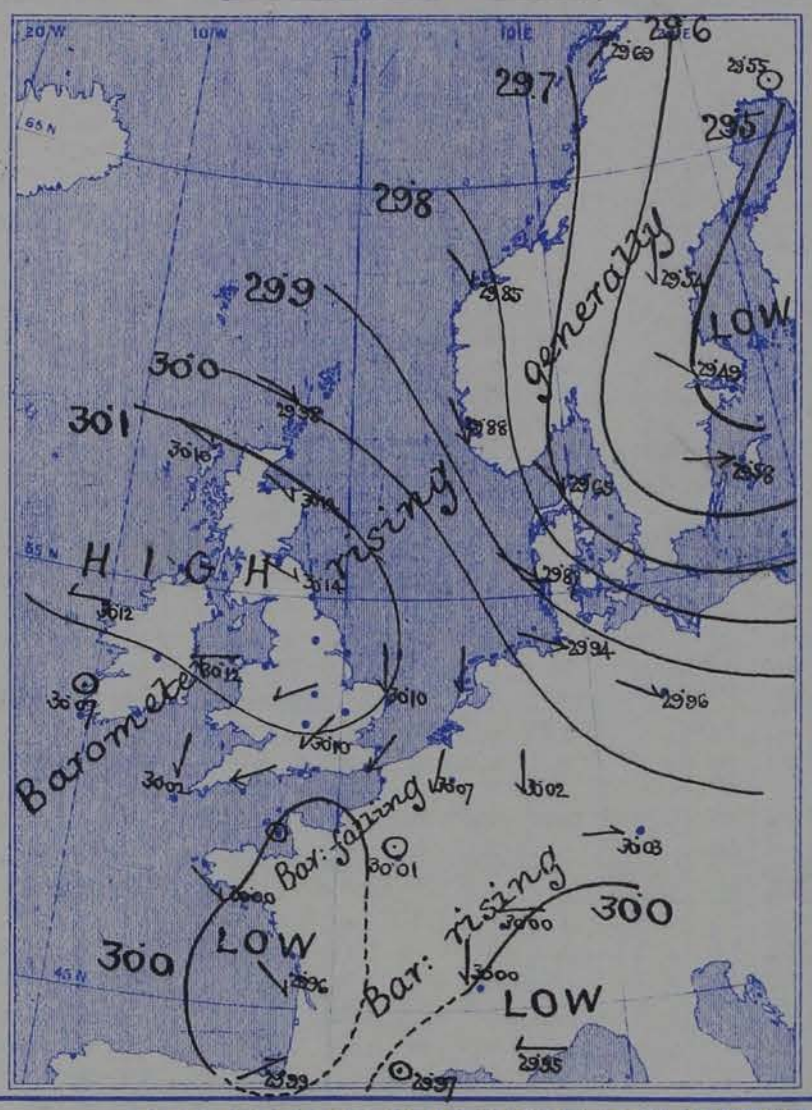
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶ ; *Force 5 to 7* ⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

Force 8 to 10 ⟶ ;

SEA—Rough ; High

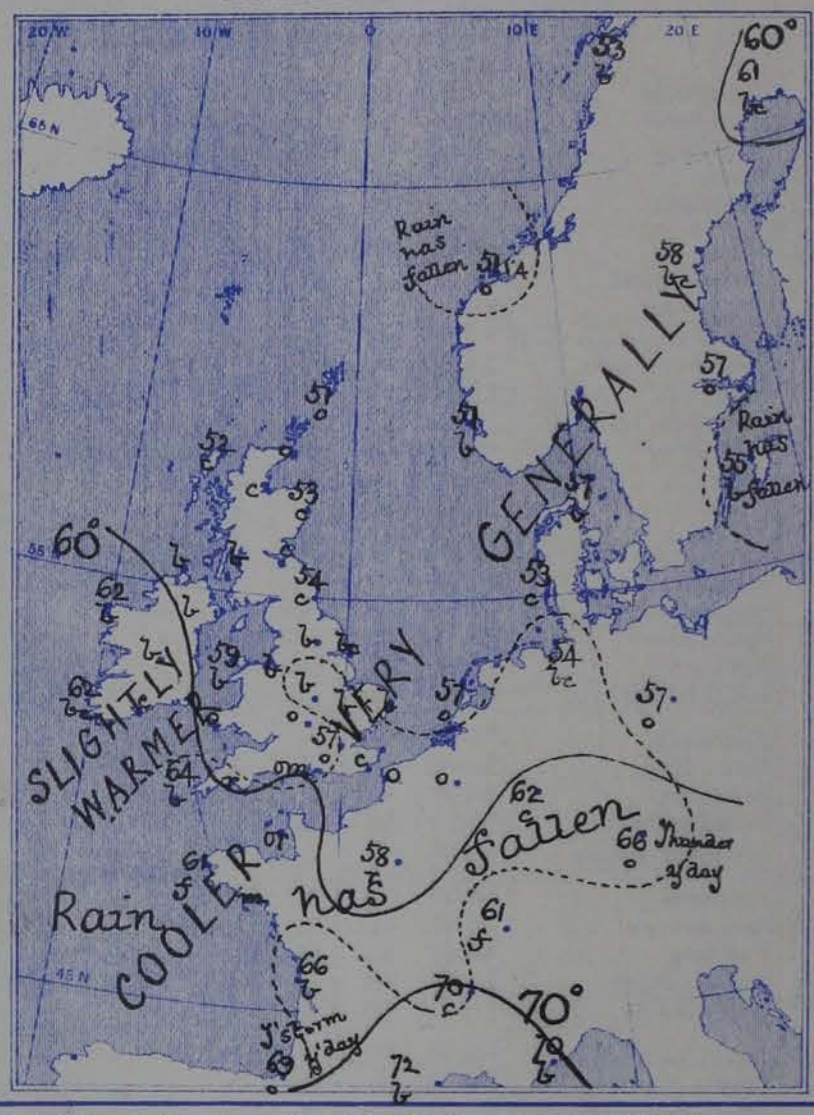


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Means of Wet Bulb 8 a.m.	Means of Daily Maximum.	Means of Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·1 ins: and more over all the northwestern, northern, and eastern parts of our Islands, and above 30·0 ins: over the Netherlands and Western Germany
Lowest, Below 29·5 ins: over Finland and the neighbourhood of Stockholm, and below 30·0 ins: over the western and southern parts of France
Gradients slight over the United Kingdom, and distribution anticyclonic.
Barometer rising over our Islands, falling irregularly over France.

TEMPERATURE

Highest, (1) 70° at Lyons, 69° at Biarritz, 66° at Rochefort and Munich, 64° at Jersey and Scilly; (2) 61° at Haparanda.
Lowest, (1) 51° at Christiansund, Skudesnaes, and Sumburgh Head, 53° at Aberdeen and York; (2) 51° at Haldstad, 52° at Fahlun, 54° at Elephaven.
The highest of the maxima recorded yesterday were 70° to 73° over the south of England, 77° at Wiesbaden, 78° at Paris, 86° at Orient, 89° at Lyons.

WIND

Very light from NW. over the northern parts of Scotland, light to moderate from N. and NE over England, light from E. in Ireland, moderate to strong from NW. and W. on the eastern shores of the North Sea, light and variable over France.

WEATHER

Fair over almost the whole of our Islands, but misty and rainy on some parts of our southern coasts, rainy on the French side of the Channel.
Yesterday there were 11 hours of Bright Sunshine at Pembroke, 8·5 hrs at Stornoway, and nearly 5 hours at Aberdeen and Valencia; at the other stations there was very little or none.

SEA

Moderate on our south and east coasts, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Fair weather is still probable over the greater part of our Islands, but showers over the Channel, and thunderstorms over France. The general condition is however, not very settled.

FORECASTS

For the 24 hours ending at NOON on 21st JULY, 1893

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W. and SW. breezes; cloudy, then some showers.
1	SCOTLAND EAST	NW. and W. breezes, light; fine.
2	ENGLAND N.E.	
3	ENGLAND EAST	Same as No 5.
4	MIDLAND COUNTIES	Same as Nos 1 and 2.
5	ENGLAND SOUTH	NE. breezes, light or moderate; fair, warmer.
6	SCOTLAND WEST	Same as No 0
7	ENGLAND N.W.	E. to N. breezes, light; fair.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.76	56	51	NNW	8	b	2
Sumburgh Head	29.92	51	47	NW	4	bc	4
Stornoway	29.99	57	52	E	3	c	3
Aberdeen	30.00	54	47	NNW	2	o q	1
Shields	30.02	54	51	N	3	o	3
Ardrossan	29.99	64	60	W	2	cm	2
Malin Head ...	29.99	59	58	E	3	bc	1
Belmullet	30.02	61	54	NE	1	c	*
Holyhead	29.99	61	58	NW	1	c	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.00	64	59	NW	4	bc	4
Scilly	30.01	73	65	NSW	1	cf	2
Jersey	30.04	66	61	W	3	o	3
Hurst Castle ...	29.98	67	63	SW	4	c	2
Dungeness ...	29.95	66	62	WSW	2	c	1
North Foreland	29.96	66	59	W	3	c	2
London (Westminster)	29.94	69	62	SW	1	o q	*
Yarmouth ...	29.95	61	59	NNE	3	c	3
Rochefort ...	29.99	82	77	NNE	4	bc	*

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

Weather in morning cloudy and dull over the British Islands generally, with rain at Liverpool, fog and mist in many parts of the Channel, fine over southern and southeastern Europe, but unsettled generally in the north, and rainy in several places. Heavy rain falling at Christiansund later, showers in many parts of our Islands, the north and west of France and Belgium; thunder reported at Munich and Biarritz.

Temperature falling generally. Morning readings (1) highest 80° at La Calle, and exceeding 70° at most of the Mediterranean stations, as well as over the southern parts of the Continent generally; 63° to 60° over the southern parts of England; (2) 60° to 64° over Finland and the north of Russia. Lowest 47° at Sumburgh Hd., 50° at Stornoway, 51° at Christiansund and Skudenaes, 52° at Shields, 55° at York. Rising later to 70° at Dungeness, 71° in London and 73° at Scilly; to 77° at Wiesbaden, 78° at Paris, 86° at Orient, 87° at Lyons, but not touching 60° in Scotland and the extreme north of Ireland.

Wind (1) exceedingly light and variable over all the southern countries; (2) Cyclonic from NE. NW. and W. over our Islands, but of little strength; (3) Cyclonic and strong over Scandinavia and Denmark — being N. at the western stations, S. in the east. NE. winds spreading more over our Islands, little change elsewhere.

Barometer highest (1) 30·1 in: and more to 30·0 in: over southern and southeastern Europe generally, and exceeding 30·0 in: over the northwestern half of France also. Lowest 29·5 in: in two depressions — one over Central Russia, the other over the southern half of Scandinavia. Some very shallow local disturbances found over the British Islands and the southwest of France also. Rising decidedly over Norway and the northern parts of our Islands later, falling over France.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Thursday, 21st July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperatures.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.58	62	SW	0	bc	29.60	+.05	60	57	-1	NE	2	c	*	bc	*	70	55	-
	Hernösand ...	29.58	59	N	4	o	29.63	+.09	57	50	-1	NW	6	c	*	o	*	72	45	-
	Stockholm ...	29.59	54	W	2	r	29.64	+.15	52	50	-5	NW	4	r	*	r	*	61	52	0.24
	Wisby	29.64	57	W	4	c	29.69	+.11	56	53	+1	NNW	6	o	*	c	*	64	52	0.12
	Karlstad ...	29.68	55	N	2	r	29.78	+.22	53	48	+2	N	4	b	*	r	*	*	*	0.20
	Bodö	29.78	52	W	2	bc	29.77	+.08	52	48	-1	SW	4	bc	2	bc	*	57	46	-
	Christiansund ...	29.90	50	NW	3	o	29.87	+.02	51	47	0	SW	3	c	3	o	*	54	45	0.04
	Skudesnaes ...	29.98	52	NW	4	c	30.00	+.12	52	50	+1	W	2	o	2	c	*	55	48	*
	Færder (Christiania Fjord)	29.69	58	NW	2	c	29.85	+.23	55	?	+3	NNW	4	b	3	c	*	59	48	0.12
	Skagen (The Scaw)	29.76	56	W	2	c	29.88	+.23	56	51	-1	NNW	3	bc	0	c	*	64	54	-
	Fanö	29.99	53	NW	6	c	30.04	+.17	55	51	+2	WNW	6	c	*	c	*	59	45	-
British Islands	Sumburgh Head	30.01	51	WNW	3	o	29.93	-.05	51	49	0	W	3	o	4	o	*	54	48	-
	Stornoway ...	30.10	55	W	3	o	30.01	-.09	53	49	+1	SSW	3	o	3	o	0.8	57	48	-
	Wick	30.12	?55	NW	2	o	30.04	+.03	54	51	+1	NW	2	o	1	o	*	61	44	-
	Nairn	30.09	60	E	1	b	30.05	-.08	54	51	+2	SW	0	c	0	b	*	69	40	-
	Aberdeen ...	30.11	55	S	1	bc	30.07	-.05	56	50	+3	W	1	om	1	bc	11.3	63	42	-
	Leith	30.09	63	W	2	b	30.05	-.07	61	59	0	WSW	1	bm	*	b	*	71	48	-
	Shields	30.14	55	ESE	3	b	30.10	-.04	56	52	+2	SW	3	m	2	b	*	60	49	-
	Spurn Head ...	30.17	56	SE	3	b	30.15	+.04	59	52	+3	SW	3	c	3	bv	*	61	51	-
	York	30.16	65	SE	1	b	30.16	+.01	54	50	+1	SE	1	b	*	c,b	9.8	66	45	-
	Loughborough ...	30.17	65	ENE	1	b	30.19	+.04	58	54	+2	SSW	2	cw	*	bc,b,o	*	67	45	-
	Ardrossan ...	30.13	60	SSW	3	bm	30.05	-.08	59	58	+1	SE	2	cm	2	bm	*	63	53	-
	Malin Head ...	30.12	57	E	3	b	30.01	-.11	63	60	+4	SSW	1	cm	0	b	*	63	55	-
	Belmullet ...	30.10	65	NE	1	c	30.02	-.10	65	61	+3	SW	1	b	*	c	*	69	59	-
	Donaghadee ...	30.16	63	SSE	3	b	30.07	-.08	61	58	+2	SSW	4	bc	2	b	*	64	49	-
	Liverpool (Bidston)	30.15	62	N	1	b	30.13	.00	60	59	+3	SE	2	c	1	bm	*	67	52	-
	Holyhead ...	30.16	59	N	1	bc	30.12	.00	63	59	+4	SW	2	c	1	b,bc	*	65	54	-
	Parsonstown ...	30.10	70	W	0	c	30.05	-.05	62	57	0	E	1	c	*	c	7.6	72	54	-
	Valencia ...	30.11	66	S	2	c	29.99	-.08	61	59	-1	ESE	3	o	3	c	6.2	71	58	0.05
	Roche's Point ..	30.14	65	SSE	2	b	30.08	.00	60	60	-2	S	3	rm	3	b	*	66	58	0.10
	Pembroke (St. Ann's Hd.)	30.12	62	NE	3	bc	30.13	+.07	59	57	+2	SSE	4	og	3	bc	7.4	63	55	-
	Scilly	30.11	63	E	4	c	30.10	+.08	62	60	-2	ESE	3	o	2	bc,c	12.2	67	59	-
	Prawle Point	30.13	57	ENE	5	bc	30.15	+.13	58	56	0	ENE	4	c	3	c	*	60	55	0.05
	Jersey (St. Aubin's)	30.06	65	ENE	4	om	30.14	+.16	62	59	-2	E	4	cm	3	r.om	*	67	59	0.14
	Hurst Castle ...	30.12	65	E	2	c	30.17	+.12	61	57	+1	E	2	c	1	om,c	*	68	55	-
	Dungeness ...	30.14	59	ENE	4	b	30.19	+.15	57	53	-1	E	3	o	2	b	*	64	54	-
	North Foreland	30.18	58	NE	3	b	30.22	+.13	57	52	+1	E	2	o	2	b	*	61	51	-
	London (Brixton) ...	30.14	63	NE	3	bc	30.20	+.10	56	52	-1	NW	1	og	*	o,b	1.7	68	45	-
	Oxford	30.20	57	NE	1	b	30.20	+.08	55	51	+2	SSE	1	o	*	b	*	66	46	-
	Cambridge ...	30.17	64	NNE	1	b	30.22	+.09	53	51	-4	NNW	1	o	*	b	12.4	67	43	-
	Yarmouth ...	30.17	60	NNE	3	b	30.20	+.10	58	52	-1	W	2	b	3	b	*	62	46	-
Germany & Holland	Cuxhaven ...	30.05	56	NW	5	bc	30.12	+.18	55	51	+1	NW	4	o	*	bc	*	59	54	-
	Berlin	30.00	58	WNW	3	b	30.12	+.16	55	50	-2	WNW	4	b	*	b	*	64	48	-
	Wiesbaden ...	*	*	*	*	*	30.23	+.21	54	51	-8	N	1	b	*	*	*	68	46	-
	Munich... ..	30.06	58	W	3	r	30.23	+.20	55	53	-11	E	0	bc	*	r	*	70	52	0.79
	The Helder ...	30.15	57	NNW	1	bc	30.19	+.15	59	52	+2	NNW	1	c	1	bc	*	61	55	-
Belgium.	Brussels ...	*	*	*	*	*	30.23	+.16	59	52	+5	ESE	1	bc	*	b	*	66	42	-
	Cape Gris Nez...	?	58	E	4	b	?	?	55	51	-2	SE	1	o	1	b	*	63	46	-
	Paris	30.07	65	NNE	2	bc	30.18	+.17	59	55	+1	E	2	bc	*	bc	*	67	50	0.24
	Brest	30.07	64	NNW	3	bc	30.08	+.09	61	60	0	NE	1	o	1	bc	*	70	55	-
	Lorient... ...	30.01	68	NNW	4	b	30.09	+.09	64	63	0	ESE	2	m	2	b	*	75	57	-
France &	Rochefort ...	30.00	67	NW	4	c	30.09	+.13	66	64	0	WNW	2	o	*	c	*	79	64	-
	Belfort	30.02	59	ENE	2	o	30.18	+.18	55	53	-6	E	4	m	*	o	*	73	49	0.04
	Lyons	29.99	66	W	5	b	30.10	+.10	62	59	-8	N	1	b	*	tlr	*	69	59	0.55
	Nice	29.87	73	SE	1	b	29.91	-.04	69	65	-1	W	0	c	o	b	*	79	64	-
	Perpignan ...	29.91	84	NW	3	b	30.01	+.04	74	66	+2	W	2	bc	*	b	*	90	69	-
	Biarritz ...	30.08	69	WNW	3	o	30.08	+.09	68	65	-1	W	3	o	2	o	*	73	64	0.08
Peninsula.	Corunna ...																*			
	Lisbon														*		*			
	Azores (P. Delgada)	30.34	71	NE	3	o	30.27	-.08	68	65	-3	NE	4	o	2	o	*	77	68	0.55

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport..12.8 hrs;

WEATHER CHARTS

FOR Thursday, 21st July, 1898

BAROMETER, WIND AND SEA.

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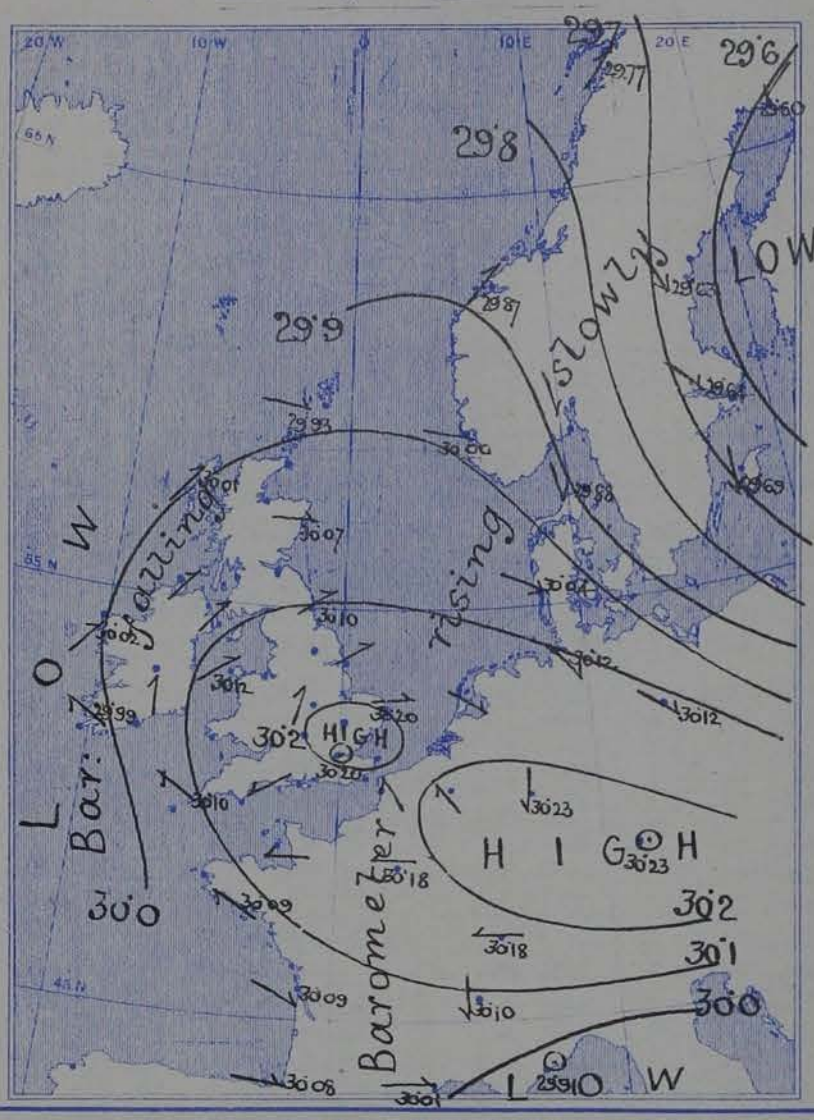
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ▤ : High ▩



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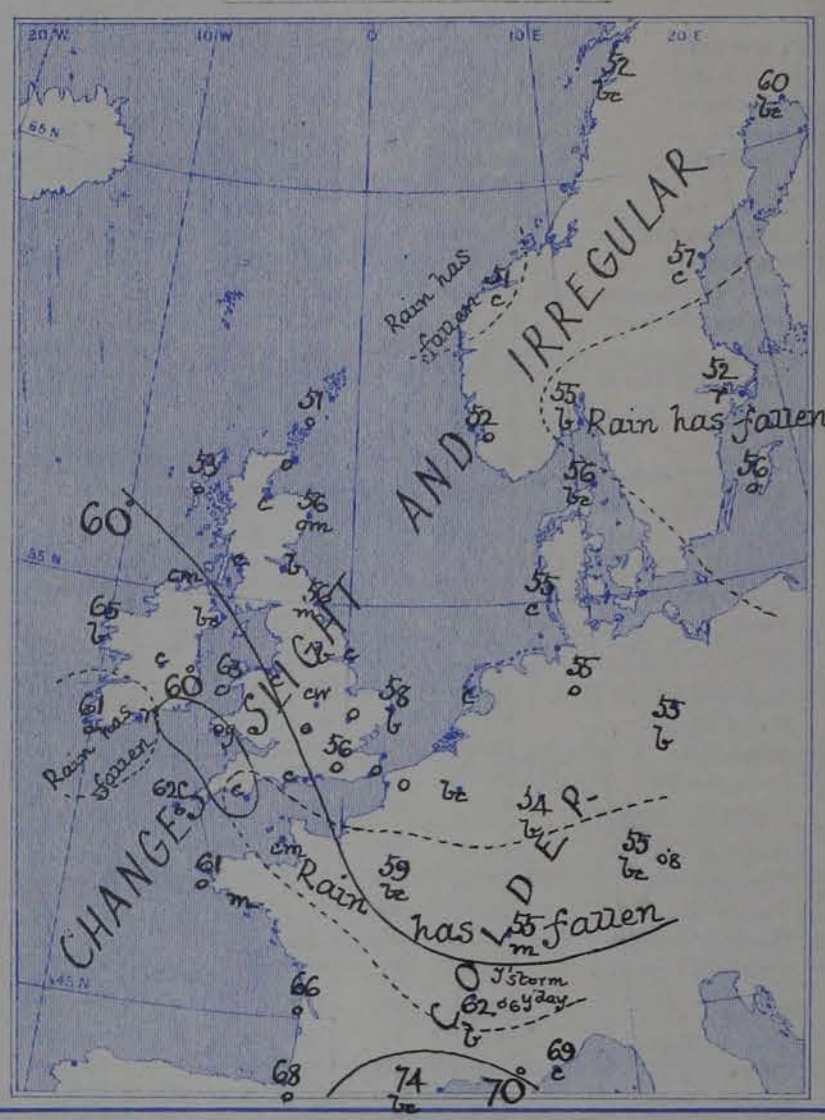

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Means of Wet Bulb 8 a.m.	Means of Daily Maximum.	Means of Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·789	53·3	51·7	57·5	48·3	69	1893	37	1888	2·36	—	—
Stornoway	29·800	55·4	53·7	60·2	49·0	76	1894	32	1888	3·08	143·6	27
Wick	29·813	55·8	53·6	61·6	48·9	81	1876	30	1886	2·52	—	—
Nairn	29·817	56·7	53·4	64·3	50·6	86	1876	37	1886	2·73	—	—
Aberdeen	29·831	57·4	53·7	63·6	50·7	86	1876	39	1884, 87	2·84	160·8	31
Leith	29·846	58·3	54·7	66·4	51·2	90	1876	41	1887, 88, 92	2·80	—	—
Shields	29·866	58·1	54·9	63·9	51·9	85	1876	40	1885	2·69	—	—
Spurn Head	29·896	59·4	56·6	64·8	54·9	84*	1881	44*	1888	1·78	—	—
York	29·899	59·1	55·8	68·5	51·8	89	1873	40	1887	2·78	163·3	32
Loughborough	29·927	60·9	57·2	71·1	52·5	90*	1881	39*	1888	2·35	—	—
Ardrossan	29·856	57·3	54·7	63·5	52·7	81	1873	40	1889	2·86	—	—
Malin Head	29·851	55·9	53·7	60·9	53·5	—	—	—	—	—	—	—
Belmullet	29·889	57·5	54·9	62·2	53·8	—	—	—	—	3·59	—	—
Donaghadee	29·880	57·3	55·4	63·2	52·2	81	1876	40	1883	2·82	—	—
Holyhead	29·909	58·1	55·8	63·7	54·2	83	1894	43	1888	2·37	—	—
Liverpool	29·905	59·3	55·4	65·9	54·1	89	1873	44	1877	2·99	—	—
Parsonstown	29·914	57·9	54·8	66·2	51·4	89	1876	37	1889	2·98	136·5	27
Valencia	29·937	59·0	56·4	63·9	53·6	80	1878	43	1885	4·23	153·8	31
Roche's Point	29·933	58·8	55·9	65·8	53·3	84	1876	45	1888	3·18	—	—
Pembroke	29·933	57·9	55·9	62·4	54·8	80	1878	45	1888	2·53	199·7	40
Scilly	29·969	60·2	58·1	64·4	56·2	75	1886	48	1875	2·47	—	—
Prawle Point	20·977	59·5	57·2	64·4	53·8	82*	1885, 87	42*	1888	2·39	—	—
Jersey	29·998	62·0	58·9	68·2	56·3	90	1873	46	1877	2·54	230·0	48
Hurst Castle	29·963	61·1	58·8	67·7	55·5	84	1876	43	1888	2·39	—	—
Dover	29·950	61·7	58·4	66·7	56·0	80	1881	40	1890	2·05	—	—
LONDON	29·953	61·8	57·6	72·0	54·0	95	1881	41	1877	2·48	162·0†	33†
Oxford	29·943	59·8	56·4	69·4	53·3	90	1876	41	1888	2·68	185·5	38
Cambridge	29·934	61·1	57·6	71·6	52·1	92	1893	39	1878	2·62	189·6	38
Yarmouth	29·923	60·7	57·6	66·2	54·8	87	1881	42	1872, 90	2·89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 ins: and upwards to 30·1 ins: in an anticyclone covering France, the south and west of Germany and the whole of England.
Lowest (1) Below 29·6 ins: over Iceland, and below 30·0 ins: in the extreme west of Ireland
Gradients very slight over France and England, moderate and increasing over Ireland.
Barometer falling rather decidedly in the west of Ireland, and the fall was spreading eastwards.

TEMPERATURE

Highest, 74° at Perpignan, 68° to 64° in the west of France, 65° to 60° at the Irish stations; 60° at Haparanda.
Lowest, (1) 51° at Lumburgh Head and Christiansund, 52° at Skudesnaes and Stockholm; (2) 54° at York and Wiesbaden, 55° at Oxford, Paris, Berlin, Munich and Belfort.
The maxima recorded yesterday were above 70° at Leith and the central and southwestern stations in Ireland, 70° at Munich, 89° at Lyons, 90° at Perpignan. That at Paris was only 67° and that in London 68°.

WIND

(1) Anticyclonic in direction and light to moderate in force over France, Germany, and England; (2) S. and freshening in Ireland, the west of Scotland and northwest of Norway; (3) NW. and strong over the Gulf of Bothnia and the Baltic.

WEATHER

Fair over Germany, France, the North Sea, and England, dull over Ireland, with rain at times, and a rather unsettled appearance. A thunderstorm occurred at Lyons yesterday afternoon.
Bright Sunshine recorded yesterday varied greatly in different localities; it exceeded 12 hours at Cambridge and Scilly, and 11 hours at Aberdeen, but amounted to less than 2 hours in London. Rainfall at several continental stations.

SEA

Very little disturbed on our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A depression is evidently approaching Ireland and Scotland from the southwestward. Rougher weather is probable in those regions today, and will probably affect, in a smaller degree, the English stations tomorrow.

FORECASTS

For the 24 hours ending at NOON on 22ND JULY, 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S. winds, fresh to strong; squally, showery.
1	SCOTLAND EAST	SW. breezes, moderate to fresh; fair, then slight showers.
2	ENGLAND N.E.	
3	ENGLAND EAST	Very light and Variable breezes; fine, warm.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as No 0.
7	ENGLAND N.W.	Same as Nos 1 and 2.
8	ENGLAND S.W.	E. to S. winds, moderate to fresh; fair as a whole.
9	IRELAND NORTH	S. winds, moderate to strong; some rain.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.94	55	51	NNW	6	c	2
Sumburgh Head	30.01	53	50	WNW	3	o	4
Stornoway	30.11	57	51	W	3	c	3
Aberdeen	30.12	62	51	NW	1	bc	1
Shields	30.16	58	52	ESE	3	b	3
Ardrossan	30.14	62	59	SSW	3	bm	2
Malin Head ...	30.14	60	57	N	3	b	1
Belmullet	30.12	68	61	NNE	1	c	*
Holyhead	30.16	62	54	N	3	b	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia ...	30.09	71	64	S	2	c	3
Scilly	30.07	64	60	NNE	3	bc	2
Jersey	30.03	66	64	ENE	4	o	3
Hurst Castle ...	30.11	65	60	ENE	4	om	3
Dungeness ...	30.12	63	55	ENE	5	b	4
North Foreland	30.16	61	52	NE	4	b	3
London (Westminster)	30.13	64	55	NE	2	o	*
Yarmouth ...	30.14	61	53	NNE	4	b	3
Rochefort ...	29.99	72	69	NNW	4	c	*

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

Weather in morning (1) fine and bright in the extreme north of Europe, fair over the British Islands as a whole, and very fine over the Mediterranean and southeastern Europe; (2) dull and unsettled over Central Europe and also over the northern half of France, with rain at several stations in those regions. Rain falling later over the Channel Islands, France, Germany, and Sweden (heavily at Munich) and a thunderstorm occurring at Lyons. A frost fall setting in over the south of Ireland later.

Temperature changing fitfully over the United Kingdom. Morning readings highest (1) 84° at Thiele, 82° at La Calle, and 81° at Athens, and exceeding 70° over southern and southeastern Europe generally; (2) above 60° at several of our southern and western stations; (3) 60° to 65° over the greater part of Ireland. Rising later to 71° at Leith and Valencia, 72° at Parsonstown, 79° at Rochefort, 89° at Lyons, and 90° at Perpignan. Succeeding night cool over Great Britain.

Wind (1) light in fore and anticyclonic in direction over the British Islands and France; (2) Cyclonic over northern Europe—NW² in Norway and Denmark, W² over Germany and the Baltic, S² to SE² over Ireland, and blowing strongly in several places; (3) very light and variable over southeastern Europe and the Mediterranean. Shifting to the S.W. in the extreme southwest of Ireland later, but remaining very light.

Barometer highest 30·1 ins. and more to 29·9 ins. in a complex anticyclonic system covering the British Islands and almost the whole of Western Europe. Lowest below 29·5 ins. in a depression having its centre near Stockholm; below 29·9 ins. in a secondary over Austria-Hungary, and below 30·0 ins. in a very shallow local disturbance over Brittany and the Channel Islands. Rising over the Continent and Great Britain later, but inclined to fall slightly in the west of Ireland.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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SCANDINAVIA
BRITISH ISLANDS.
GERMANY & HOLLAND.
FRANCE & BELGIUM.
PENINSULA.

DAILY WEATHER REPORT

for 8 a.m. on Friday, 22nd July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.					Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.57	58	E	0	c	29.58	-.02	62	59	+2	E	0	r	*	c	*	70	48	0.32
	Hernösand ...	29.67	62	W	2	b	29.71	+.14	57	52	0	SW	2	c	*	b	*	75	50	-
	Stockholm ...	29.77	61	W	2	b	29.84	+.20	57	53	+5	W	4	o	*	b	*	66	50	-
	Wisby	29.87	58	NW	4	b	29.93	+.24	55	52	-1	W	4	b	*	b	*	61	48	-
	Karlstad ...	29.82	57	WSW	2	b	29.85	+.07	66	57	+9	W	2	b	*	b	*	*	*	-
	Bodö	29.62	54	NE	1	o	29.55	-.22	52	48	0	SW	4	o	2	o	*	59	48	0.08
	Christiansund ...	29.73	52	SW	8	r	29.76	-.11	51	49	0	SW	7	r	5	r	*	52	46	-
	Skudesnaes ...	30.00	53	W	2	c	29.95	-.05	52	50	0	SSE	4	c	2	o.c	*	55	48	*
	Færder (Christiania Fjord)	29.82	60	WSW	2	o	29.88	+.03	57	51	+2	W	2	o	4	o	*	61	55	-
	Skagen (The Scaw)	29.92	54	WNW	5	bc	29.96	+.08	56	53	0	WNW	5	c	1	bc	*	61	53	-
	Fanö	30.08	56	W	4	c	30.05	+.01	57	55	+2	W	4	b	*	c	*	61	55	-
British Islands.	Sumburgh Head	29.90	54	W	3	c	29.75	-.18	53	53	+4	SW	1	c	3	o.c	*	56	44	-
	Stornoway ...	29.89	60	ESE	2	c	29.75	-.26	57	54	+4	W	3	b	3	o.c	3.0	61	48	-
	Wick	29.97	53	NW	2	c	29.79	-.25	58	54	+4	S	1	o	1	c	*	60	47	-
	Nairn	29.82	57	E	1	c	29.77	-.28	63	59	+9	E	0	b	0	c	*	66	49	-
	Aberdeen ...	29.92	59	S	2	cqm	29.79	-.28	66	59	+10	SW	1	bm	1	bc.c	10.7	67	56	-
	Leith	29.94	63	E	0	o	29.83	-.22	59	56	-2	E	0	om	*	o	*	73	51	-
	Shields	29.97	69	W	3	b	29.87	-.23	58	56	+2	SW	2	m	2	b	*	75	54	-
	Spurn Head ...	30.03	61	SE	5	c	29.90	-.25	59	57	0	SE	3	c	3	c	*	71	54	-
	York	30.01	69	S	1	om	29.89	-.27	61	57	+7	SSE	1	c	*	c.o	6.4	74	50	-
	Loughborough ...	30.05	67	SSE	1	o	29.88	-.31	61	58	+3	SE	2	cm	*	bc.c,om	*	75	57	-
	Ardrossan ...	29.94	62	S	2	b	29.81	-.24	57	57	-2	NE	1	qf	1	cm.bm	*	63	56	0.01
	Malin Head ...	29.90	59	N	2	om	29.77	-.24	60	60	-3	SE	3	cm	1	c.om	*	66	59	-
	Belmullet ...	29.93	60	N	1	o	29.78	-.24	58	57	-7	NNE	3	o	*	o	*	67	57	0.30
	Donaghadee ...	29.96	65	SW	5	bc	29.81	-.26	56	56	-5	ESE	3	r	1	bc	*	71	54	0.25
	Liverpool (Bidston)	30.02	62	N	1	o	29.83	-.30	61	56	+1	SE	2	o	2	om	*	70	56	0.01
	Holyhead ...	30.02	60	SSW	2	cm	29.80	-.32	61	59	-2	S	2	om	1	om.cm	*	64	54	0.04
	Parsonstown ...	29.91	61	SE	1	r	29.72	-.33	63	62	+1	E	0	o	*	c,a	1.1	67	60	0.14
	Valencia ...	29.87	63	S	2	o	29.73	-.26	62	59	+1	N	4	o	4	o	0.0	66	56	0.03
	Roche's Point ..	29.92	62	SSE	3	rm	29.71	-.37	61	61	+1	SE	1	f	3	rm.t	*	62	58	0.50
	Pembroke (St. Ann's Hd.)	29.98	60	SE	3	o	29.78	-.35	61	60	+2	SW	3	og	4	o	0.0	62	55	0.25
	Scilly	29.98	64	S	2	f	29.77	-.33	63	61	+1	SSW	4	bc p	3	om,f	0.0	67	60	0.13
	Prawle Point ...	30.06	59	ENE	4	c	29.88	-.27	59	58	+1	SSW	3	cp	3	c,f	*	65	57	0.02
	Jersey (St. Aubin's)	30.04	70	E	0	bc	29.95	-.19	62	61	0	SSW	4	o dm	3	c,qt	*	73	58	0.02
	Hurst Castle ...	30.06	65	E	2	cm	29.91	-.26	64	62	+3	SW	2	om	2	cm.om	*	69	60	-
	Dungeness ...	30.01	61	ENE	3	c	29.95	-.24	63	59	+6	S	3	c	2	c	*	66	57	-
Germany & Holland.	North Foreland	30.12	59	E	2	bc	29.96	-.26	62	59	+5	SE	3	c	2	bc	*	62	57	-
	London (Brixton) ...	30.07	67	SW	2	c	29.91	-.29	66	63	+10	S	1	o	*	bc.og	5.5	75	56	-
	Oxford	30.04	62	S	1	r	29.88	-.32	63	60	+8	S	2	o	*	c,r	*	71	55	-
	Cambridge ...	30.07	65	E	1	o	29.90	-.32	62	60	+9	SE	1	o	*	c.o	6.0	73	51	0.01
	Yarmouth ...	30.10	60	SSE	4	b	29.95	-.25	61	58	+3	SSE	4	c	4	b	*	63	55	-
	Cuxhaven ...	30.14	59	N	2	b	30.11	-.01	55	54	0	S	1	b	*	b	*	59	48	-
	Berlin	30.15	60	WNW	3	b	30.18	+.06	57	53	+2	SW	1	b	*	b	*	68	50	-
	Wiesbaden ...	*	*	*	*	*	30.11	-.12	61	56	+7	NE	1	c	*	*	*	68	45	-
	Munich... ...	30.23	57	E	2	bc	30.19	-.04	58	56	+3	E	2	c	*	bc	*	66	48	-
	The Helder ...	30.14	59	WSW	1	b	30.01	-.18	64	58	+5	S	1	bc	1	b	*	64	52	-
France & Belgium.	Brussels ...	*	*	*	*	*	30.05	-.18	66	59	+7	SSE	1	c	*	c	*	67	53	-
	Cape Gris Nez ...	?	64	E	1	bc	?	?	64	57	+9	S	2	o	2	bc	*	66	54	-
	Paris	30.11	69	E	2	bc	30.02	-.16	65	59	+6	SE	2	bc	*	bc	*	73	55	-
	Brest	30.05	67	W	0	b	29.92	-.16	60	59	-1	SW	2	o	3	b	*	68	57	0.04
	Lorient... ...	30.06	68	W	2	c	29.99	-.10	64	64	0	NW	3	f	3	c	*	73	?	-
	Rochefort ...	30.09	70	NW	3	c	30.03	-.06	67	66	+1	NW	1	o	*	bc.c	*	77	63	-
	Belfort	30.06	65	ENE	3	o	30.09	-.09	60	56	+5	E	1	m	*	o	*	72	52	-
	Lyons	30.06	64	NE	1	b	30.10	.00	66	59	+4	ESE	1	b	*	b	*	78	58	-
	Nice	29.95	75	SW	3	b	30.09	+.18	74	66	+5	E	1	b	0	b	*	81	68	-
	Perpignan ...	30.03	81	W	2	b	30.06	+.05	74	68	0	E	0	b	*	b	*	87	62	-
	Biarritz ...	30.07	72	NW	3	b	29.99	-.09	68	66	0	ESE	3	b	2	b	*	75	66	-
Peninsula.	Corunna ...																*			
	Lisbon	30.03	68	NNW	5	b	30.02	-.05	70	65	-2	N	4	b	*	b	*	82	64	-
	Azores (P. Delgada)	30.28	69	ENE	4	o	30.24	-.03	72	68	+4	N	3	bc	2	o	*	75	68	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 5.9 hrs;

WEATHER CHARTS

FOR Friday, 22nd July, 1898

BAROMETER, WIND AND SEA.

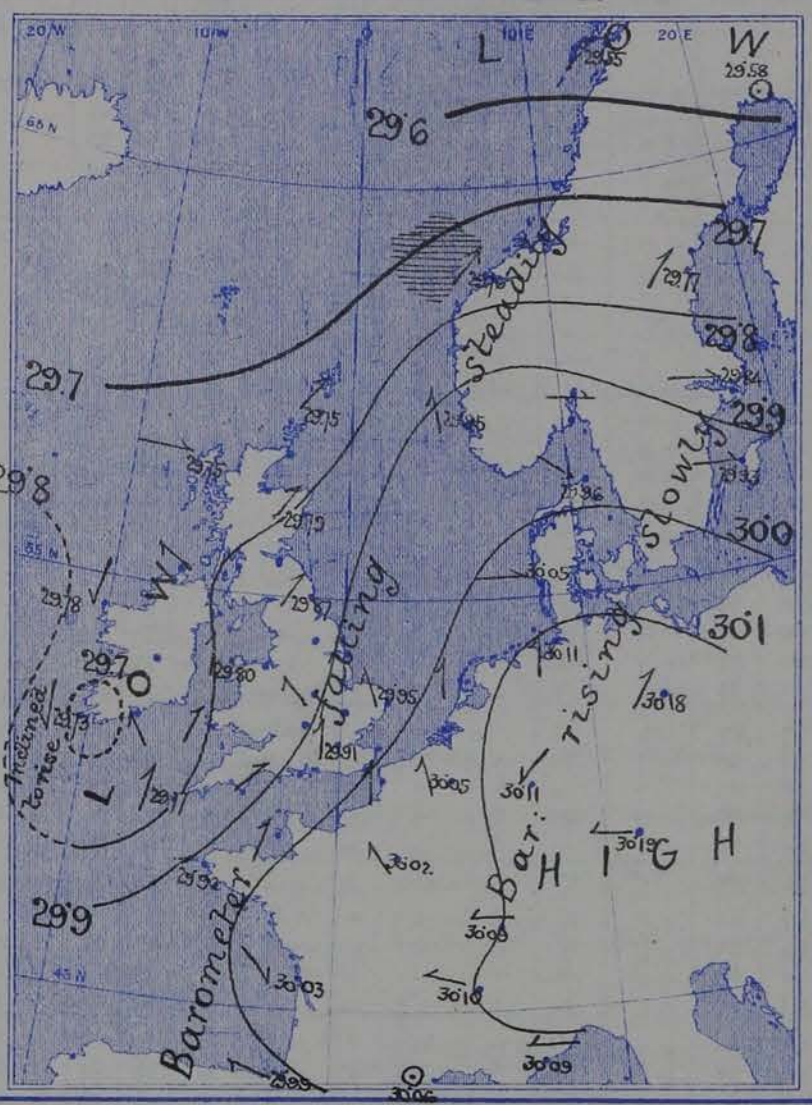
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ▤ : High ▩

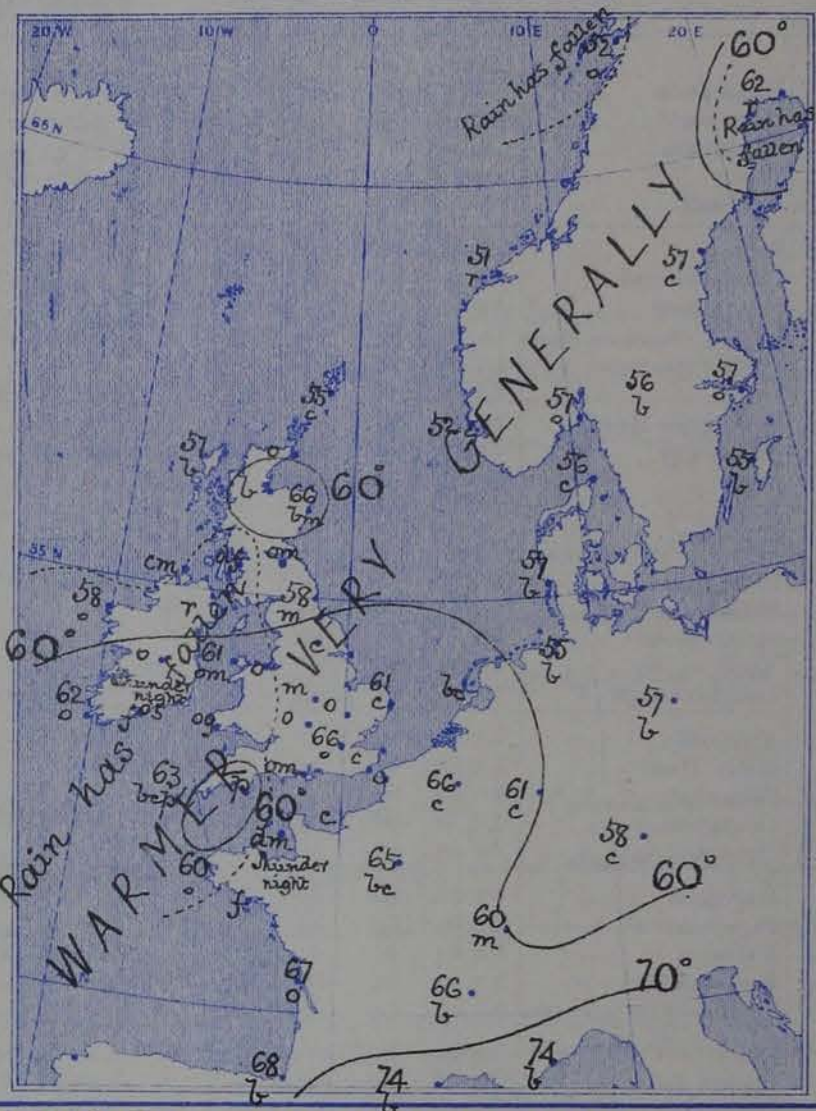


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95: Means of Dry Bulb 8 a.m.	Means of Wet Bulb 8 a.m.	Means of Daily Maximum.	Means of Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1891	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·1 in: and more to 30·0 in: over Germany, the Netherlands and France.
Lowest, Below 29·6 in: over Lapland, below 29·8 in: in the north of Scotland, and about 29·7 in: in a small secondary disturbance over Ireland.
Gradients moderate to slight. Barometer falling generally and rather decidedly.

TEMPERATURE

Highest, 74° on the south coast of France, and above 60° at most of the French stations and over the southern half of our Islands and the east of Scotland.
Lowest, 51° to 52° in the northwest of Norway, 55° at Lumburgh Head and Cuxhaven, and 58° at Helmsdale.
The highest of the maxima recorded yesterday were 75° to 70° over the northeastern and central parts of England, 73° at Paris, 78° at Lyons, 81° at Nice and 87° at Perpignan.

WIND

S¾ (SE to SSW) over England, light and very variable over Scotland and Ireland (N¾ at Valencia); SW¾ to W¾ over Scandinavia.

WEATHER

Fine and bright in Scotland, cloudy and unsettled looking over England, with rain at many of our southwestern stations and at Jersey; dull, misty and rainy in various parts of Ireland. Thunder occurring at night at Rochebrune and Jersey.
A moderate fall of rain was measured at the Irish stations this morning and over the southwest of England.
Bright Sunshine recorded yesterday was 10·7 hrs at Aberdeen and from 6 to 3 hrs at the English stations; at our southwestern stations there was none.

SEA

Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The secondary depression over Ireland is apparently moving northeastwards, and will probably cause rain all over England shortly, and thunder in some localities; cooler and drier conditions are then probable, with N¾ or NW¾ breezes and a clearer sky again.

FORECASTS

For the 24 hours ending at NOON on 23rd JULY, 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Very Variable airs; fair generally.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Varying S¾ airs and light breezes; becoming rather showery, thunder in places, then cooler.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as Nos 0 & 1.
7	ENGLAND N.W.	Wind shifting to the N¾; cooler, and weather clearing gradually.
8	ENGLAND S.W.	
9	IRELAND NORTH	N¼ and NW¼ breezes, moderate; weather clearing slowly.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·02	55	51	NW	4	0	2
Sumburgh Head	29.91	55	52	W	2	0	4
Stornoway	29.94	59	53	SSW	4	0	4
Aberdeen	30·00	59	54	SE	1	bc	1
Shields	30·01	73	61	SW	3	c	2
Ardrossan	30·00	61	59	SW	2	c	2
Malin Head ...	29.96	66	63	E	2	c	0
Belmullet	29.97	63	59	W	1	0	*
Holyhead	30·08	62	57	SW	2	om	1
Valencia	29. 93	66	63	S	3	0	3
Scilly	30. 05	65	63	SSE	1	om	1
Jersey	30. 10	70	64	SE	2	c	2
Hurst Castle ...	30. 12	67	62	S	2	cm	1
Dungeness ...	30. 16	64	56	ENE	3	c	1
North Foreland	30. 18	61	55	E	2	bc	2
London (Westminster)	30. 13	70	58	SW	2	bc	*
Yarmouth ...	30. 16	61	54	SSE	4	b	3
Rochefort ...	30. 11	75	68	NW	2	bc	*

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

Weather in morning fine and bright over the Mediterranean and southeastern and southwestern Europe, fair over France, North Germany, the Netherlands and England, dull and unsettled in many parts of Ireland, with rain at Roche's Point – rain over several parts of Austria-Hungary also. Thunderstorms occurring later at Jersey and Roche's Point; rain over Ireland, the southwest of England and at Brest, as well as over the south of Lapland.

Temperature in morning highest, 84° at La Calle and Brindisi, 83° at Patras, and above 70° at almost all the stations in southern Europe, above 60° in the south and west of France and over many parts of Russia. Lowest 51° at Christiansund and Sumburgh Head, 53° at Stornoway, 54° at Nairn and Yell, 55° at Fanö, Copenhagen, and Berlin; 51° at Berlaue, 52° at Warsaw. Rising later to between 70° and 75° over the greater part of England, to 78° at Paris and 87° at Perpignan, but not exceeding 68° at Berlin a Westbaden all day.

Wind (1) Light and anticyclonic over Central Germany, France, the Bay of Biscay and England; (2) Cyclonic from NW. in Sweden, from W. and SW. in North Germany, from S. over Finland, and blowing strongly at many stations, a gale at Swinemunde; (3) S., moderate on our own western coasts, and (4) light and variable over the Mediterranean. The S. breeze more general over our Islands later, but shifting to N. at Belmullet and Holyhead.

Barometer highest 30·2 in: and more to 29·9 in: over the whole of Central and western Europe, including the British Islands, lowest (1) below 29·6 in: in a depression over Finland and the Gulf of Bothnia; (2) below 29·9 in: over southeastern Europe. Falling at all our western stations, and fall spreading eastwards during day.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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SCANDINAVIA. BRITISH ISLANDS. GERMANY & HOLLAND. FRANCE & BELGIUM. PENIN-SULA

DAILY WEATHER REPORT

for 8 a.m. on Saturday 23rd July 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.60	59	NE	0	be	29.66	+ .08	62	56	0	SW	2	be	*	be	*	68	50	0.04
	Hernösand ...	29.73	59	NE	0	0	29.64	— .13	61	56	+ 4	SW	2	b	*	0	*	68	50	—
	Stockholm ...	29.84	60	W	2	b	29.78	— .06	62	55	+ 5	WSW	2	b	*	b	*	68	50	—
	Wisby	29.92	55	SSW	4	b	29.86	— .07	62	57	+ 7	SSW	4	b	*	b	*	63	52	—
	Karlstad ...	29.82	60	WSW	4	b	29.73	— .12	58	55	+ 2	S	2	b	*	b	*	*	*	—
	Bodö	29.56	55	E	2	c	29.51	— .04	57	51	+ 5	E	2	0	1	c	*	57	45	—
	Christiansund ...	29.61	54	SW	2	r	29.39	— .37	57	54	+ 6	ESE	1	0	3	r	*	57	50	0.20
	Skudesnaes ...	29.81	53	S	4	0	29.54	— .41	53	51	+ 1	SSE	2	m	3	0	*	55	48	*
	Færder (Christiania Fjord)	29.80	59	WSW	5	c	29.67	— .21	58	56	+ 1	S	1	m	1	c	*	61	55	—
	Skagen (The Scaw)	29.89	55	WSW	1	m	29.66	— .30	60	58	+ 4	SSW	3	m	0	m	*	64	54	—
	Fanö	29.85	63	ENE	2	c	29.58	— .47	61	59	+ 4	SE	1	c	*	c	*	72	57	—
British Isl.	Sumburgh Head	29.61	59	W	2	c	29.36	— .39	50	48	— 5	NW	4	0	4	c	*	61	47	0.07
	Stornoway ...	29.64	64	WSW	4	b	29.62	— .13	51	49	— 6	N	5	0	5	c,b	13.5	66	47	—
	Wick	29.68	58	W	1	c	29.53	— .26	52	50	— 6	NW	5	bc	3	c	*	67	50	0.02
	Nairn	29.62	68	SE	2	bc	29.53	— .24	55	52	— 8	WNW	3	bc	3	bc	*	75	52	0.10
	Aberdeen ...	29.65	62	S	2	bcm	29.49	— .30	59	54	— 7	NW	2	cg	1	bm,bcm	12.6	71	53	—
	Leith	29.67	62	NE	0	0	29.54	— .29	61	57	+ 2	WSW	4	0	*	0	*	67	57	—
	Shields	29.67	59	E	2	0	29.55	— .32	63	60	+ 5	WSW	3	c	2	0,r,c	*	68	54	0.01
	Spurn Head ...	29.69	61	SSE	2	cpt	29.58	— .32	60	59	+ 1	WNW	4	r	3	c,pt,l	*	65	56	0.15
	York	29.69	65	S	1	op	29.60	— .29	62	60	+ 1	W	1	c	*	0,tr,p	0.6	73	58	1.57
	Loughborough ...	29.70	62	S	1	c	29.68	— .20	61	59	0	W	3	c	*	op.cpq	*	72	56	0.14
	Ardrossan ...	29.67	62	NW	1	cf	29.60	— .21	57	57	0	W	4	0	3	of,cf	*	64	55	0.09
	Malin Head ...	29.69	55	N	6	cm	29.66	— .11	55	54	— 5	NNW	6	cmtq	3	cm	*	61	54	0.04
	Belmullet ...	29.84	61	WNW	1	b	29.80	+ .02	59	57	+ 1	NNW	2	bc	*	0.b	*	61	55	0.10
	Donaghadee ...	29.68	60	SSW	3	bc	29.67	— .14	60	58	+ 4	WSW	2	c	0	bc	*	61	54	0.03
	Liverpool (Bidston)	29.66	64	NW	1	0	29.71	— .12	58	56	— 3	W	4	0	2	tp,0	*	69	56	0.05
	Holyhead ...	29.67	64	NW	1	cp	29.75	— .05	60	57	— 1	W	3	c	2	pd,cp	*	65	56	0.12
	Parsonstown ...	29.76	62	NE	0	bc	29.79	+ .07	61	59	— 2	W	1	0	*	tr,bc	1.0	67	63	0.19
	Valencia ...	29.84	62	NW	4	c	29.87	+ .14	61	60	— 1	WNW	3	0	4	cq,c	2.6	63	57	0.06
	Roche's Point ..	29.72	62	NW	4	c	29.84	+ .13	63	61	+ 2	WSW	3	0	3	p,c	*	67	56	0.35
	Pembroke (St. Ann's Hd.)	29.67	60	NW	4	c	29.83	+ .05	58	56	— 3	NW	5	bcp	4	c	2.2	62	56	0.15
	Scilly	29.76	64	W	4	cp	29.90	+ .13	62	59	— 1	WNW	4	cpm	3	c,cp	9.0	68	58	0.01
	Prawle Point ...	29.77	59	SSW	3	c	29.88	.00	60	57	+ 1	WNW	5	bc	4	cp,cq	*	62	53	0.07
	Jersey (St. Aubin's)	29.85	64	WSW	4	b	29.92	— .03	62	60	0	W	5	0	4	cp,b,cg	*	68	60	0.06
	Hurst Castle ...	29.78	64	SW	5	cm	29.79	— .12	66	63	+ 2	WSW	4	cp	3	cp,cm	*	69	64	0.08
	Dungeness ...	29.79	62	SSW	3	cp	29.73	— .22	64	62	+ 1	WSW	3	c	3	c,cp	*	68	58	0.16
	North Foreland	29.79	64	SW	1	c	29.69	— .27	61	61	— 1	WSW	5	0	3	c	*	72	57	0.24
	London (Brixton) ...	29.75	63	SW	2	cr	29.74	— .17	64	60	— 2	W	3	c	*	cr,bc	0.5	74	58	0.24
	Oxford	29.70	62	SSW	3	bc	29.73	— .15	62	59	— 1	W	3	cp	*	p,bc	*	67	55	0.09
	Cambridge ...	29.74	64	SSW	1	p	29.68	— .22	62	60	0	SW	3	0	*	0.r	0.4	74	55	0.13
	Yarmouth ...	29.75	63	SSW	3	c	29.60	— .35	61	59	0	W	3	bc	3	c,l	*	65	55	0.43
Germany & Holland.	Cuxhaven ...	29.93	64	N	1	c	29.61	— .50	62	60	+ 7	SSW	5	0	*	c	*	70	55	0.08
	Berlin	30.01	68	SE	2	b	29.79	— .39	64	58	+ 7	SE	2	c	*	b	*	75	55	—
	Wiesbaden ...	*	*	*	*	*	29.83	— .28	66	63	+ 5	SW	1	c	*	*	*	77	57	—
	Munich	30.07	64	E	1	b	29.98	— .21	71	64	+ 13	W	4	bc	*	b	*	73	55	—
	The Helder ...	29.77	67	ESE	1	r	29.59	— .42	61	59	— 3	SW	3	0	2	r	*	73	59	0.08
Belgium.	Brussels ...	*	*	*	*	*	29.73	— .32	62	59	— 4	SW	4	0	*	0	*	81	57	0.04
	Cape Gris Nez ...	?	62	S	2	0	?	?	60	59	— 4	W	5	m	5	0	*	72	59	0.24
	Paris	29.89	77	SW	2	bc	29.92	— .10	63	59	— 2	SSW	3	0	*	bc	*	82	57	—
	Brest	29.90	64	SW	3	c	29.97	+ .05	60	59	0	WNW	3	0	3	c	*	66	55	—
	Lorient	29.93	66	W	5	bc	30.00	+ .01	63	59	— 1	NW	4	0	4	bc	*	72	48	0.04
France &	Rochefort ...	29.91	69	WNW	3	bc	30.06	+ .03	65	64	— 2	WNW	3	bc	*	bc	*	77	63	—
	Belfort	29.91	76	W	1	b	?	?	63	63	+ 3	W	3	b	*	b	*	80	60	—
	Lyons ...	29.89	82	S	2	bc	29.99	— .11	73	65	+ 7	N	1	c	*	bc	*	73	65	—
	Nice	30.05	75	SW	1	b	30.02	— .07	72	62	— 2	E	1	b	0	b	*	81	64	—
	Perpignan ...	30.00	75	NE	2	b	30.03	— .03	72	68	— 2	NW	1	b	*	b	*	81	65	—
	Biarritz ...	30.01	71	W	4	c	30.01	+ .02	67	65	— 1	N	2	0	2	c	*	77	64	—
Penin-sula.	Corunna ...																*			
	Lisbon	30.00	66	N	5	b	30.04	+ .02	69	62	— 1	N	3	b	*	b	*	82	63	—
	Azores (P. Delgada)	30.23	66	NNE	4	b	30.21	— .03	67	64	— 5	NE	3	bc	2	b	*	75	64	0.04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0.9 hrs;

WEATHER CHARTS

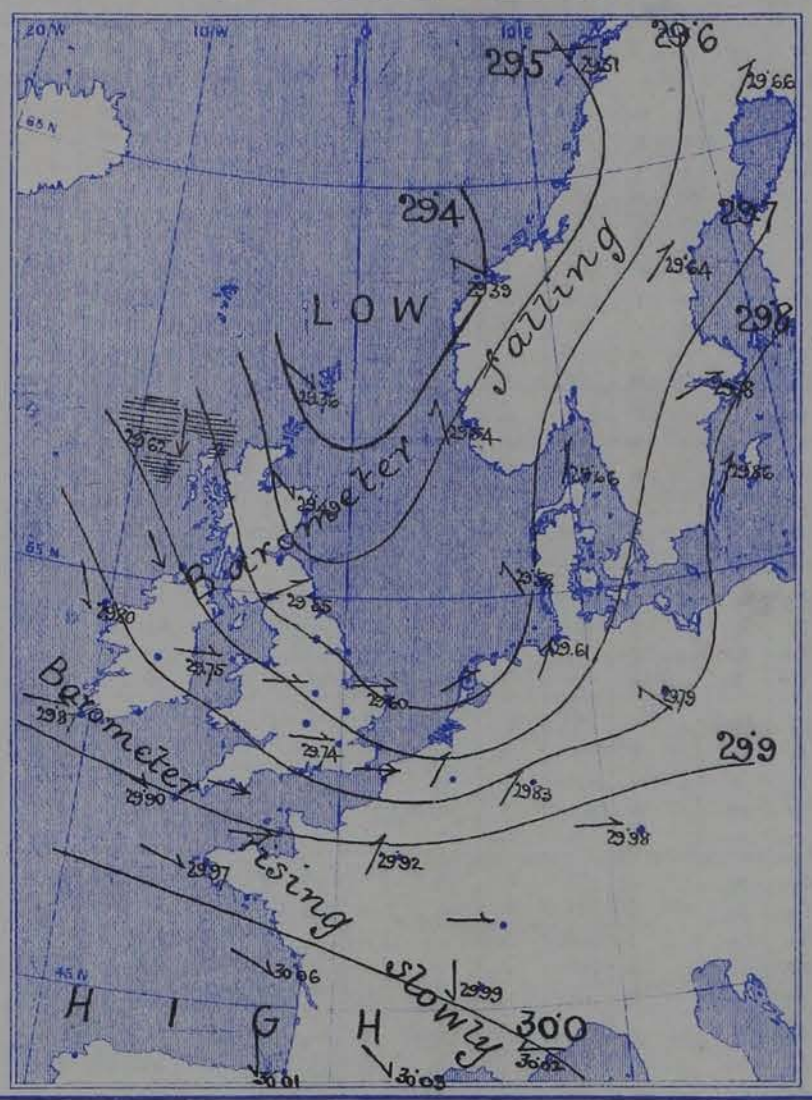
FOR Saturday, 23rd July, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

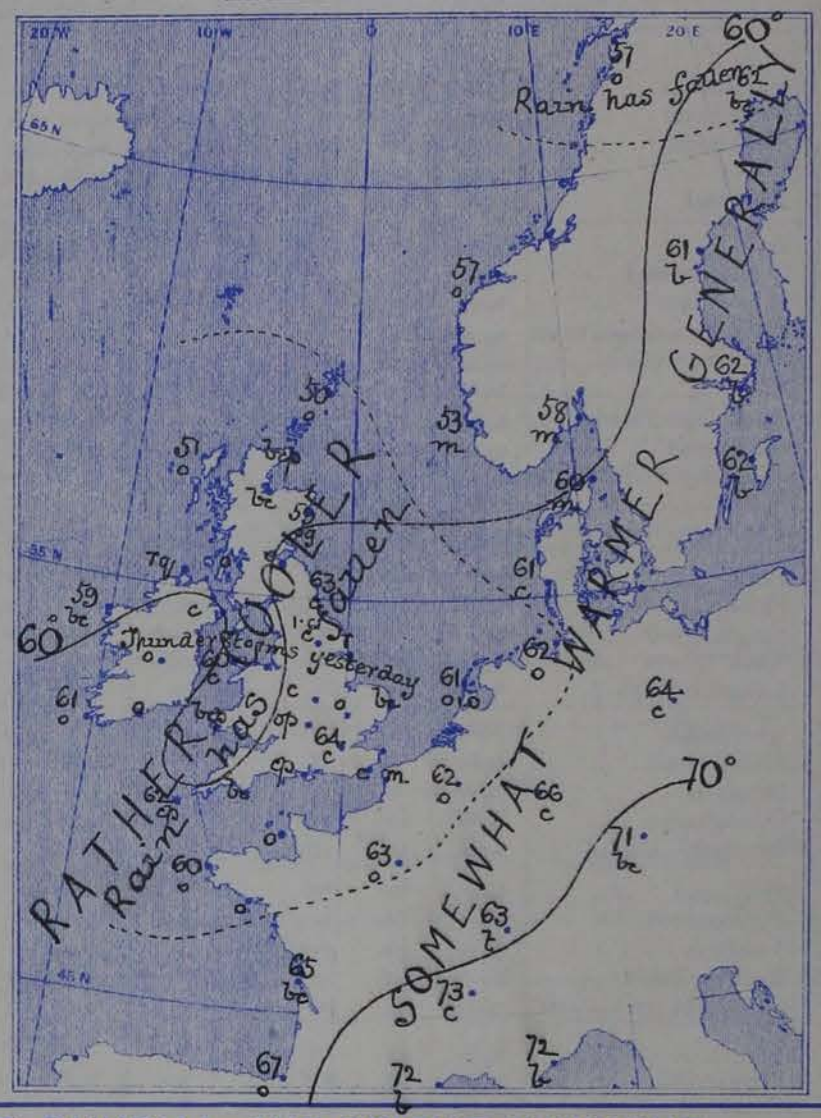
Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙
Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

SEA—*Rough* ▤ ; *High* ▩



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.0 inches and more over the Bay of Biscay and the southwest of France, and exceeding 29.8 inches over Germany the Baltic and the southeast of Sweden.
Lowest 29.4 inches over the Shetland Islands, and west of Norway, and below 29.6 inches in a "hollow" over the North Sea.
Gradients were moderate.
Barometer was rising over France and our southern and southwestern coasts, falling in the north and east.

TEMPERATURE

Highest 70° to 73° over the southern parts of France, 71° at Munich, 64° at Berlin and in London, and above 60° at the Swedish stations.
Lowest 50° at Lumbutgh Head, 51° at Stornoway, 52° at Wick, 55° at Nairn and Malin Head.
The highest of the maxima recorded yesterday were 68° to 75° over Great Britain, 75° at Berlin, 82° at Paris, 81° at Nice and Perpignan.

WIND

(1) Northerly to Northwesterly at our most northern stations, Northwesterly and Westerly over England and France, and moderate to (fresh generally
(2) Southwesterly in the Netherlands, Southerly in Denmark and Sweden, Southeasterly in the west of Norway.

WEATHER

Cloudy over our Islands, with showers in several localities, changeable over France, with thunder at Belfort; clear in Sweden.
Rain had fallen all over England and Ireland and thunder and lightning had occurred in many localities. Bright sunshine recorded yesterday 12.0 hours to 13.5 hours at the Scotch stations, and 9 hours at Scilly; over the greater part of England, however, and in London, there was very little — at Cambridge only 0.4 hour.

SEA

Rather rough at Stornoway and Yarmouth, moderate generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A few showers are probable in several parts of our Islands to day, but fine weather tomorrow with Northwesterly winds and lower temperatures.

FORECASTS

For the 24 hours ending at NOON on JULY 24TH 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Northwesterly breezes, fresh; showery to fair.	6 SCOTLAND WEST	Same as Nos. 0. and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	Westerly and Northwesterly breezes, moderate; a shower or two, then fair and cooler.	8 ENGLAND S.W.	Northwesterly breezes, moderate; slight showers, then fine generally.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ..	29.89	55	53	S	4	o	3
Sumburgh Head	29.69	59	55	WSW	2	c	3
Stornoway	29.70	66	58	WSW	3	c	3
Aberdeen	29.72	67	57	S	2	bm	1
Shields	29.76	65	61	SE	3	c	3
Ardrossan	29.74	64	61	E	0	of	0
Malin Head ...	29.79	61	60	E	2	c	1
Belmullet	29.84	60	57	NNW	1	o	*
Holyhead .. .	29.73	63	60	SW	1	cmpa	1

	BAR.	THER. Dry.	THER. Wet	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.82	62	58	NW	5	oa	5
Scilly	29.75	65	61	WSW	4	c	3
Jersey	29.89	65	65	SW	3	o	3
Hurst Castle ...	29.84	64	63	SSW	3	op	2
Dungeness ...	29.83	64	61	SSW	3	c	2
North Foreland	29.86	70	64	S	3	c	2
London (Westminster)	29.84	65	63	SSW	2	or	*
Yarmouth ...	29.83	64	60	SSE	5	c	4
Rochefort ...	29.99	74	70	WSW	3	o	*

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

Weather in morning fine generally over southern, central, and southeastern Europe, fair in the north of Russia and at the Swedish stations, dull and very changeable over Ireland, England and the north of France, with rain in several places; clear in Scotland. Rain falling later over almost all parts of our Islands, the Netherlands and north of France (very heavily at York), thunder and lightning occurring in many places.

Temperature rose considerably over great Britain and France, morning reading highest, 83° at Pattes, 81° at Palermo, 80° at Algiers, above 60° over France and the greater part of our Islands, lowest 51° at Christiansund, 52° at Skudenaes, 55° at Lemburgh Head, and below 60° over the northern parts of the British Islands, Denmark and North Germany. Rising later to between 70° and 75° over England and the east of Scotland, to 75° at Berlin, 81° at Brussels, Nice and Perpignan, and 82° at Paris.

Wind (1) light and anticyclonic over the whole of Western Europe, and light and very variable over the Mediterranean; (2) light to moderate and cyclonic over the British Islands and their neighbourhood — southwesterly & southeasterly over England and the Irish Sea, Northerly in the west of Ireland, Southwesterly and rather strong in the northwest of Norway. Shifting to the Northward and Northeastward at most of our western stations later, and veering to southwest over the southeast of England.

Barometer 30.2 inches and more to 30.0 inches over Central and Western Europe and the Mediterranean; lowest (1) below 29.6 inches over Lapland and the Kola Peninsula (2) below 29.8 inches over Scotland; (3) and about 29.7 inches in a small secondary system over the south of Ireland. The last named system moving northeastwards later, and the barometer beginning to rise at Valencia.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Sunday 24th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.65	60	Z	0	b	29.66	.00	61	58	+ 5	Z	0	b	*	b	*	67	48	—
	Hernösand ...	29.54	58	S	4	b	29.52	—.12	60	57	— 1	NE	6	o	*	b	*	66	48	035
	Stockholm ...	29.56	60	SE	4	o	29.24	—.54	59	58	— 3	SE	2	r	*	o	*	?	?	024
	Wisby	29.54	61	S	4	o	29.33	—.53	58	57	— 4	SSW	6	r	*	o	*	66	52	043
	Karlstad ...	29.39	58	SSE	6	o	29.21	—.52	58	57	0	NE	6	r	*	o	*	*	*	0.12
	Bodö	29.50	63	E	4	bc	29.55	+ .04	64	57	+ 7	E	4	b	1	bc	*	66	52	—
	Christiansund ...	29.28	59	WSW	2	c	29.42	+ .03	54	52	— 3	WNW	2	f	3	.c	*	66	52	008
	Skudesnaes ...	29.38	52	WNW	4	c	29.42	—.12	52	50	— 1	NW	7	o	3	r,c	*	58	48	*
	Færder (Christiania Fjord)	29.30	57	SSE	4	m	29.15	—.52	57	57	— 1	N	2	r	1	m	*	59	55	1.14
	Skagen (The Scaw)	29.28	59	SSW	1	b	29.22	—.44	54	51	— 6	WNW	4	o	1	b	*	61	54	0.16
	Fanö	29.45	55	WNW	6	c	29.54	—.04	52	50	— 9	WNW	8	r	*	c	*	63	52	0.85
	Sumburgh Head	29.48	50	NW	5	o	29.72	+ .36	48	47	— 2	N	5	o	5	r.o	*	52	45	005
	Stornoway ...	29.80	53	N	5	c	29.97	+ .35	51	48	0	N	3	o	3	c	0.7	54	46	—
	Wick	29.72	53	NNW	6	o	29.89	+ .36	51	48	— 1	N	6	o	4	o	*	60	47	0.03
	Nairn	29.77	54	NNW	3	r	29.94	+ .41	52	51	— 3	W	1	c	1	r	*	62	47	—
	Aberdeen ...	29.69	54	NW	3	cq	29.90	+ .41	51	45	— 8	NW	3	ogq	3	cq	3.7	61	49	—
British Islands.	Leith	29.72	64	Z	0	c	29.93	+ .39	63	53	+ 2	W	1	b	*	c	*	72	45	—
	Shields	29.74	55	N	3	o	29.94	+ .39	57	50	— 6	NW	3	c	3	o	*	69	46	—
	Spurn Head ...	29.66	63	W	6	c	29.94	+ .36	61	54	+ 1	N	3	b	4	c	*	66	55	—
	York	29.69	66	NW	4	b	29.95	+ .35	57	53	— 5	NW	1	bc	*	c.o.b	7.6	67	53	—
	Loughborough ...	29.75	62	W	3	c	29.98	+ .30	58	53	— 3	W	2	bcur	*	cpq.bc	*	70	48	001
	Ardrossan ...	29.73	55	NW	4	b	29.95	+ .35	59	53	+ 2	NW	4	b	2	b	*	63	48	—
	Malin Head ...	29.86	55	NNW	5	o	29.99	+ .33	54	51	— 1	NNW	3	o	2	o	*	56	51	—
	Belmullet ...	29.94	59	N	1	c	30.02	+ .22	58	54	— 1	NNW	1	o	*	c	*	60	53	—
	Donaghadee ...	29.84	56	NW	4	c	30.01	+ .34	59	55	— 1	NW	5	bc	3	c	*	62	46	001
	Liverpool (Bidston)	29.80	59	WNW	5	bc	29.96	+ .25	56	51	— 2	W	3	o	2	bc	*	63	52	—
	Holyhead ...	29.84	58	NNE	1	bc	30.00	+ .25	59	53	— 1	NNW	2	bc	1	pa,bc	*	65	52	—
	Parsonstown ...	29.88	66	W	1	bc	30.02	+ .23	55	52	— 6	N	1	o	*	bc	6.2	70	52	—
	Valencia ...	29.93	62	W	1	o	29.99	+ .12	61	56	0	NNW	1	o	3	c.o	0.8	65	57	001
	Roche's Point ..	29.89	66	NW	2	b	29.94	+ .10	60	58	— 3	SSE	1	o	1	b	*	66	55	—
	Pembroke (St. Ann's Hd.)	29.86	60	NW	4	c	30.00	+ .17	60	55	+ 2	E	3	c	3	c	3.2	61	54	—
	Scilly	29.95	62	WSW	3	m	29.98	+ .08	66	64	+ 4	SSW	1	cf	2	om.m	1.5	67	59	—
	Prawle Point ...	29.91	60	WSW	5	o	30.01	+ .13	61	60	+ 1	WSW	2	o	2	c.o	*	66	57	0.01
	Jersey (St. Aubin's)	29.99	65	W	5	b	30.05	+ .13	63	62	+ 1	WSW	4	oq	3	b.cp	*	67	60	003
	Hurst Castle ...	29.86	65	WSW	5	o	30.00	+ .21	66	61	0	ENE	1	bcm	0	c.om	*	71	58	0.01
	Dungeness ...	29.79	63	WSW	6	c	?29.99	+ .26	60	55	— 4	NNW	1	bc	1	c	*	68	54	—
	North Foreland	29.78	68	W	5	c	29.98	+ .29	60	56	— 1	WNW	2	bc	1	c	*	74	54	0.02
	London (Brixton) ...	29.78	67	WSW	2	o	29.99	+ .25	59	54	— 5	WNW	3	bc	*	c,op	5.2	74	52	001
	Oxford	29.82	62	WSW	3	o	30.00	+ .27	58	51	— 4	NW	3	bc	*	c.opa	*	70	50	—
	Cambridge ...	29.76	66	W	3	o	29.98	+ .30	58	55	— 4	WNW	1	o	*	c.o	4.5	73	47	—
	Yarmouth ...	29.69	65	WNW	4	c	29.94	+ .34	60	55	— 1	WNW	2	b	2	c	*	69	52	0.02
Germany & Holland.	Cuxhaven ...	29.54	63	WSW	5	c	29.68	+ .07	56	52	— 6	WNW	6	c	*	c	*	70	54	020
	Berlin	29.65	62	W	4	bc	29.70	—.09	60	57	— 4	W	5	o	*	bc	*	79	59	0.55
	Wiesbaden ...	*	*	*	*	*	29.93	+ .10	64	60	— 2	NW	4	o	*	*	*	73	61	008
	Munich	29.99	64	W	6	b	30.08	+ .10	64	58	— 7	W	6	b	*	b	*	81	57	004
	The Helder ...	29.65	62	W	3	c	29.89	+ .30	59	52	— 2	NW	4	bc	3	c	*	64	57	004
Belgium.	Brussels ...	*	*	*	*	*	29.97	+ .24	60	57	— 2	NW	3	c	*	c	*	71	58	012
	Cape Gris Nez ...	?	61	W	6	m	?	?	59	55	— 1	N	2	b	2	m	*	64	55	—
	Paris	29.96	70	WSW	3	b	30.04	+ .12	64	60	+ 1	WSW	2	o	*	b	*	71	59	—
	Brest	30.08	64	SW	3	o	30.10	+ .13	60	59	0	SW	2	b	2	o	*	66	57	—
	Lorient	30.05	65	W	4	o	30.08	+ .08	63	62	0	W	3	o	2	o	*	73	57	004
France &	Rochefort ...	30.07	68	NW	4	bc	30.07	+ .01	63	62	— 2	NE	2	b	*	bc	*	77	59	—
	Belfort	29.96	58	WSW	5	c	30.07	?	64	59	+ 1	WSW	4	b	*	c	*	77	54	—
	Lyons	30.08	68	E	1	b	30.09	+ .10	66	59	— 7	SSE	1	b	*	b	*	75	57	004
	Nice	29.92	75	SW	1	b	29.96	—.06	73	66	+ 1	Z	0	b	0	b	*	84	66	—
	Perpignan ...	30.00	73	W	2	b	30.02	—.01	75	70	+ 3	SW	1	b	*	b	*	85	66	—
	Biarritz ...	30.03	72	NNE	2	b	30.02	+ .01	65	61		NE	2	b	2	b	*	72	63	—
Penin-sula.	Corunna ...																*			
	Lisbon	30.02	66	NNW	5	b	30.05	+ .01	69	62	0	WNW	2	b	*	b	*	82	61	—
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 4.9 hrs;

WEATHER CHARTS

FOR ..... Sunday, 24th July, ... 1898

BAROMETER, WIND AND SEA.

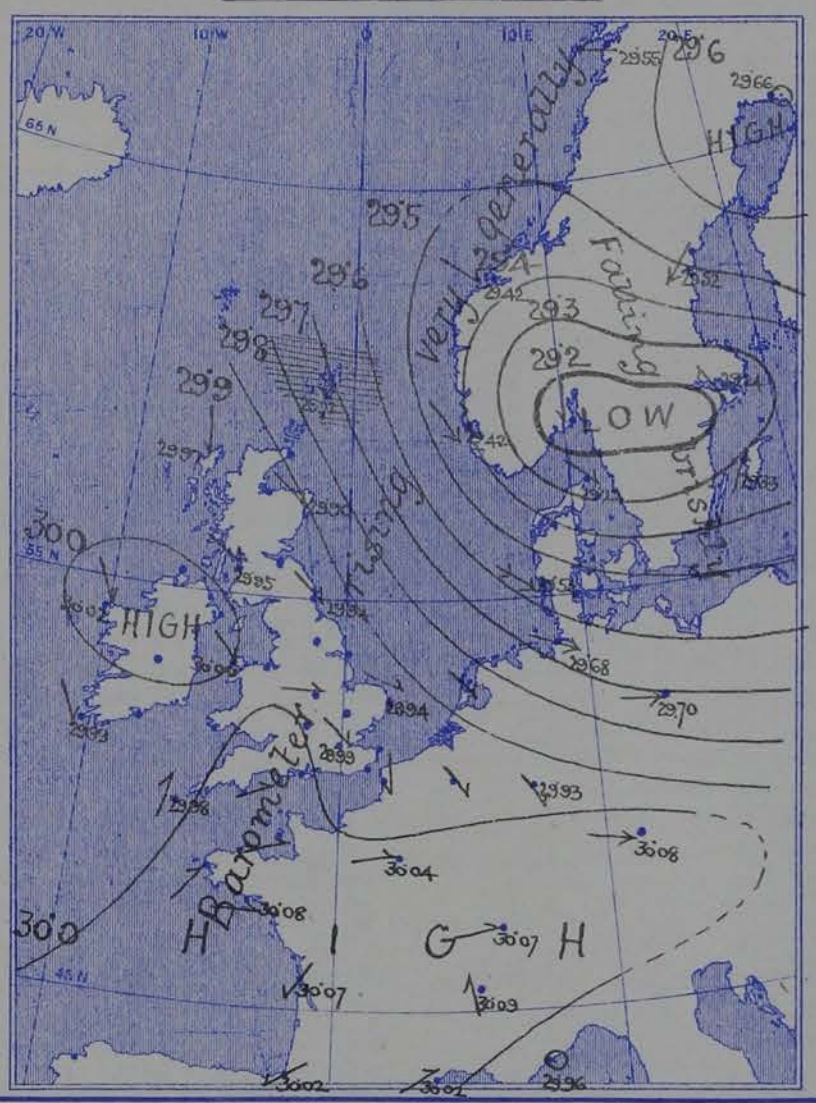
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟩⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ▤ ; *High* ▩

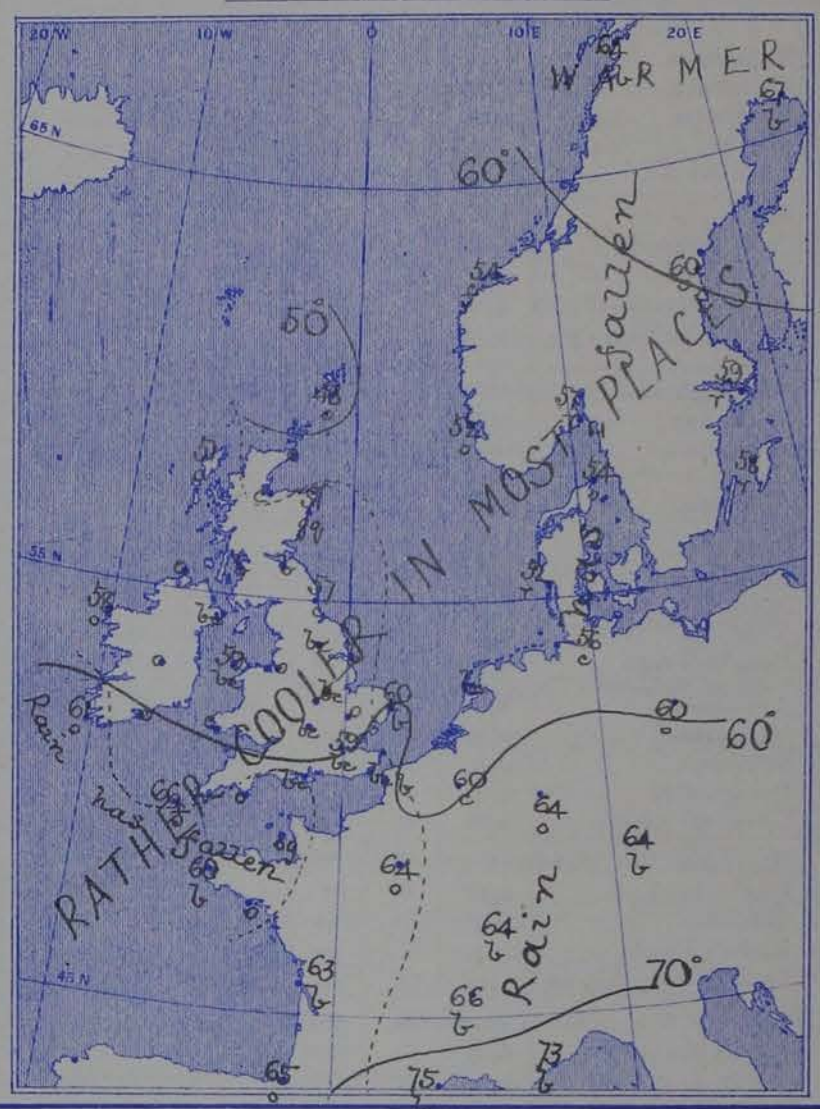


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—{ A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95: Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·0 ins: and more to 29·9 ins: in a rather complex anticyclone covering France, South Germany, and the whole of the British Isles.
Lowest, 29·2 ins: and less, in a depression over the southern parts of Scandinavia.
Gradients steep over the North Sea, Germany, Denmark, and the southern half of the Scandinavian Peninsula—slight over the British Islands and France.
Barometer rising over the British Island and France, falling to the eastward of the North Sea.

TEMPERATURE

Highest (1) 73° to 75° along the south coast of France; above 60° at the other French stations, and in the extreme south of England and Ireland.
(2) 67° at Haparanda, 64° at Bodö, 60° at Ulsaberg.
Lowest, 48° at Dumburgh Head, 51° at Stornoway, Nairn, and Aberdeen, 52° at Skudenaes and Paris, 54° at Malin Head, 55° at Parsonstown.
The maxima recorded yesterday were very little above 60° over Scotland, 65° to 70° over Ireland, and 70° to 74° in many parts of England, 71° at Paris, 79° at Berlin.

WIND

(1) Light to moderate from between N. and W. over Great Britain; very light and variable over Ireland and the western half of France.
(2) E. at Bodö, NW at Varg to a gale on the eastern side of the North Sea, SSW at Utsty, E. at Stockholm and Karlstad.
It has been local at times in several parts of our Islands during the past 24 hours.

WEATHER

Dull, squally, and rainy over the countries lying the eastward of the North Sea.
Rain over our Islands, France, and the Mediterranean, with an improving tendency over the British Islands.
The rains in our Islands have been slight and local, those over the countries lying to the eastward of the North Sea, heavy and general.
Bright Sunshine recorded yesterday varied from less than an hour at Stornoway and Valencia to 7·6 hrs at York.

SEA

Rather rough to moderate on our north and northeast coasts, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 25TH JULY 1898

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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.36	53	52	S	6	r	4
Sumburgh Head	29.43	50	49	NW	5	r	5
Stornoway	29.73	54	50	N	5	c	5
Aberdeen	29.62	59	49	NW	5	cq	4
Shields	29.59	68	63	W	4	c	2
Ardrossan	29.66	62	58	NW	4	bc	3
Malin Head ...	29.78	55	55	NNW	6	c	4
Belmullet	29.90	60	55	N	1	o	*
Holyhead	29.77	61	59	WSW	3	cpa	2
Valencia	29.92	63	61	NW	2	c	3
Scilly	29.95	63	61	WSW	3	om	3
Jersey	29.98	66	62	WSW	5	bc	4
Hurst Castle ...	29.85	68	64	WSW	4	c	3
Dungeness ...	29.78	68	63	WSW	5	c	4
North Foreland	29.76	70	62	WSW	4	c	3
London (Westminster)	29.76	73	63	W	3	c	*
Yarmouth ...	29.64	68	63	W	4	bc	3
Rochefort ...	30.01	73	69	NNW	3	bc	*

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

Weather in morning changeable and unsettled over the countries lying to the eastward of the North Sea, as well as in several parts of France; improving slowly over our Islands, but still cloudy with occasional showers. Heavy rain later at Sweden, Paris, and Berlin, and a considerable quantity at Belfast, but only slight local showers over the British Isles.

Temperature in morning highest (1) 91° at La Calle, 86° at Sfax, and between 70° and 80° over the Mediterranean generally, over 60° over the greater part of the Continent, over England, and the south of Ireland; (2) 63° even at Ulealborg. Lowest 50° at Sumburgh Head, 51° at Stornoway, 53° at Skudesnaes, 55° at Malin and Malin Head. Rising later to between 70° and 74° in many parts of England and the north of France, to 79° at Berlin, and 84° at Nice.

Wind light and very variable over the Mediterranean, southeastern, and many parts of southern Europe; cyclonic and fresh over the northwestern and northern countries — N' to W' over the British Isles, SW' over the Netherlands; S' to SE' over the Baltic and Denmark, E' on the northern coasts of Norway. Inclining to decrease in force over our Islands later, but not changing materially in direction.

Barometer highest 30·1 in: and more over southeastern Europe, and above 30·0 in: over the Mediterranean, and nearly the whole of the southern countries, exceeding 29·8 in: in a "ridge" over the Baltic and the northwest of Russia. Lowest 29·4 in: and less, in a depression over the Shetlands and west of Norway, and below 29·6 in: in a secondary hollow over the North Sea. Rising later over our Islands, falling over Scandinavia and Denmark.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Monday 25th July, 1898

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.67	62	2	0	c	29.60	— .06	67	58	0	NNE	4	bc	*	c	*	75	52	—
	Hernösand ...	29.51	58	NNE	4	r	29.46	— .06	58	56	— 2	NW	6	o	*	r	*	64	54	0.16
	Stockholm ...	29.35	57	2	0	o	29.41	+ .17	56	55	— 3	W	2	r	*	o	*	66	55	0.16
	Wisby	29.38	57	SE	4	o	29.44	+ .11	57	55	— 1	NW	4	o	*	o	*	61	54	0.08
	Karlstad ...	29.30	56	SW	2	r	29.53	+ .32	59	57	+ 1	N	2	o	*	r	*	*	*	0.35
	Bodö	29.63	68	2	0	b	29.69	+ .14	66	58	+ 2	2	0	b	0	b	*	77	57	—
	Christiansund ...	29.64	53	WNW	3	f	29.82	+ .40	51	50	— 3	WNW	4	r	3	f	*	55	48	0.16
	Skudesnaes ...	29.68	52	NNW	8	o	29.84	+ .42	51	48	— 1	NNW	7	c	3	o	*	55	48	*
	Færder (Christiania Fjord)	29.36	60	NNW	4	o	29.58	+ .43	60	55	+ 3	N	4	o	3	o	*	60	57	0.24
	Skagen (The Scaw)	29.38	58	NW	4	c	29.62	+ .40	59	56	+ 5	NW	2	bc	0	c	*	61	54	0.04
	Fanö	29.69	54	WNW	9	c	29.86	+ .32	52	50	+ 1	WNW	7	c	*	c	*	57	52	0.08
	Sumburgh Head	29.88	48	NW	3	o	29.97	+ .25	50	50	+ 2	NW	1	o	4	o	*	51	46	0.15
	Stornoway	30.03	54	2	0	o	30.04	+ .07	54	50	+ 3	WNW	3	c	3	o	3.1	58	45	—
	Wick	29.95	46	NW	2	o	30.07	+ .18	54	51	+ 3	NW	2	o	1	o	*	58	44	—
	Nairn	30.02	59	WNW	2	c	30.08	+ .14	53	50	+ 1	2	o	b	1	c	*	61	43	—
	Aberdeen ...	30.00	55	NW	2	bc	30.08	+ .18	54	49	+ 3	WNW	1	o	1	bc	2.3	59	43	—
British Isles	Leith	29.97	65	E	2	b	30.07	+ .14	55	51	— 8	ESE	1	o	*	b	*	69	42	—
	Shields	30.02	56	ENE	3	c	30.09	+ .15	55	52	— 2	SSW	3	c	3	c	*	60	52	—
	Spurn Head ...	29.99	57	ENE	2	b	30.10	+ .16	60	53	— 1	E	2	bv	4	b,ov	*	62	50	—
	York	30.00	61	E	2	bc	30.12	+ .17	56	52	— 1	S	1	b	*	bc,o	7.7	69	46	—
	Loughborough ...	29.99	68	WNW	2	b	30.10	+ .12	57	54	— 1	ENE	1	omw	*	bc,bm,c	*	71	48	—
	Ardrossan ...	29.99	61	NW	3	b	30.07	+ .12	56	55	— 3	W	1	bm	0	b	*	63	44	—
	Malin Head ...	30.03	58	N	1	b	30.10	+ .11	55	53	+ 1	E	1	c	0	b	*	59	50	—
	Belmullet ...	30.06	59	ENE	1	o	30.15	+ .13	58	54	0	ENE	1	o	*	o	*	63	54	—
	Donaghadee ...	30.05	60	W	3	b	30.11	+ .10	56	53	— 3	NW	3	b	1	b	*	65	43	—
	Liverpool (Bidston)	30.02	59	WNW	1	b	30.08	+ .12	58	54	+ 2	2	0	o	1	b	*	61	51	—
	Holyhead ...	30.05	56	N	2	b	30.10	+ .10	58	53	— 1	NNE	1	b	1	b	*	60	51	—
	Parsonstown ...	30.03	61	NE	1	o	30.09	+ .07	58	57	+ 3	2	0	o	*	o	0.0	62	55	—
	Valencia ...	30.01	64	WNW	1	c	30.07	+ .08	62	59	+ 1	2	0	o	2	c	3.0	65	57	—
	Roche's Point ..	30.02	60	ESE	3	o	30.09	+ .15	59	58	— 1	ESE	3	o	3	o,rm	*	63	56	0.03
	Pembroke (St. Ann's Hd.)	30.02	60	NE	3	o	30.07	+ .07	59	54	— 1	E	3	og	3	c,o	3.8	64	56	—
	Scilly	30.00	66	SSW	2	c	30.06	+ .08	64	62	— 2	SSW	1	o	1	c	1.3	69	60	—
	Prawle Point ...	30.03	62	WSW	2	o	30.09	+ .08	62	61	+ 1	WSW	2	o	2	o	*	67	58	—
	Jersey (St. Aubin's)	30.06	66	W	3	c	30.12	+ .07	63	62	0	W	3	omw	3	c	*	67	61	—
	Hurst Castle ..	30.01	65	SW	3	cm	30.08	+ .08	65	62	— 1	ENE	1	o	0	c	*	71	61	—
	Dungeness ..	29.98	63	SW	4	b	30.06	+ .07	60	59	0	WSW	2	f	1	b	*	67	52	—
	North Foreland	30.01	61	ESE	3	bc	30.10	+ .12	58	57	— 2	ESE	2	c	2	bc	*	63	54	—
	London (Brixton) . .	29.99	72	WSW	2	bv	30.08	+ .09	65	59	+ 6	2	0	c	*	bv,bc	14.3	75	53	—
	Oxford	30.00	63	N	1	b	30.09	+ .09	60	56	+ 2	2	0	bc	*	b	*	72	50	—
	Cambridge ...	29.99	70	NW	1	b	30.10	+ .12	60	58	+ 2	S	1	o	*	b	11.4	72	47	—
	Yarmouth ...	29.98	61	ESE	4	b	30.09	+ .15	59	54	— 1	E	4	b	3	b	*	63	55	—
Germany & Holland	Cuxhaven ...	29.84	56	W	7	o	29.95	+ .27	54	50	— 2	WNW	5	o	*	o	*	57	54	0.04
	Berlin	29.87	59	WNW	5	c	29.96	+ .26	55	50	— 5	WNW	5	o	*	c	*	66	52	—
	Wiesbaden ...	*	*	*	*	*	30.13	+ .20	60	55	— 4	N	1	c	*	*	*	70	55	0.04
	Munich... ..	30.10	64	SW	4	c	30.17	+ .09	65	61	+ 1	W	4	c	*	c	*	73	59	—
	The Helder ...	29.99	58	WNW	2	bc	30.09	+ .20	58	52	— 1	NW	2	bc	2	bc	*	61	55	—
Belgium.	Brussels ...	*	*	*	*	*	30.08	+ .11	61	57	+ 1	NW	1	c	*	b	*	72	51	—
	Cape Gris Nez ...	?	62	S	2	o	?	?	60	59	+ 1	W	5	m	?5	o	*	72	59	?
	Paris	30.05	69	NW	2	bc	30.13	+ .09	63	61	— 1	2	o	bc	*	bc	*	73	58	—
	Brest	30.08	66	SW	1	b	?	?	62	61	+ 2	SW	1	c	1	b	*	68	57	—
	Lorient	30.10	67	W	4	b	30.13	+ .05	61	60	— 2	NW	1	c	1	b	*	75	57	—
France &	Rochefort ...	30.04	70	NW	4	b	30.08	+ .01	68	66	+ 5	NNW	2	o	*	b	*	77	63	—
	Belfort	30.00	70	W	3	bc	30.08	+ .01	66	61	+ 2	2	o	m	*	bc	*	75	53	—
	Lyons ...	30.01	77	ENE	1	b	30.09	.00	68	61	+ 2	N	1	b	*	b	*	82	62	—
	Nice	29.93	74	2	0	b	29.99	+ .03	73	69	0	2	o	bc	0	b	*	81	64	—
	Perpignan ...	29.96	72	2	o	b	30.04	+ .02	79	71	+ 4	SW	1	b	*	b	*	86	68	—
	Biarritz ...	30.00	73	NE	3	c	30.04	+ .02	69	66	+ 4	WSW	2	o	2	c	*	77	65	—
Peninsula.	Corunna ...																*			
	Lisbon	30.03	66	NNW	4	b	30.05	.00	69	59	0	N	1	b	*	b	*	82	61	—
	Azores (P. Delgada)	30.15	69	NNW	3	bc	30.14		69	65		N	2	b	1	bc	*	75	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 9.4 hrs;

WEATHER CHARTS

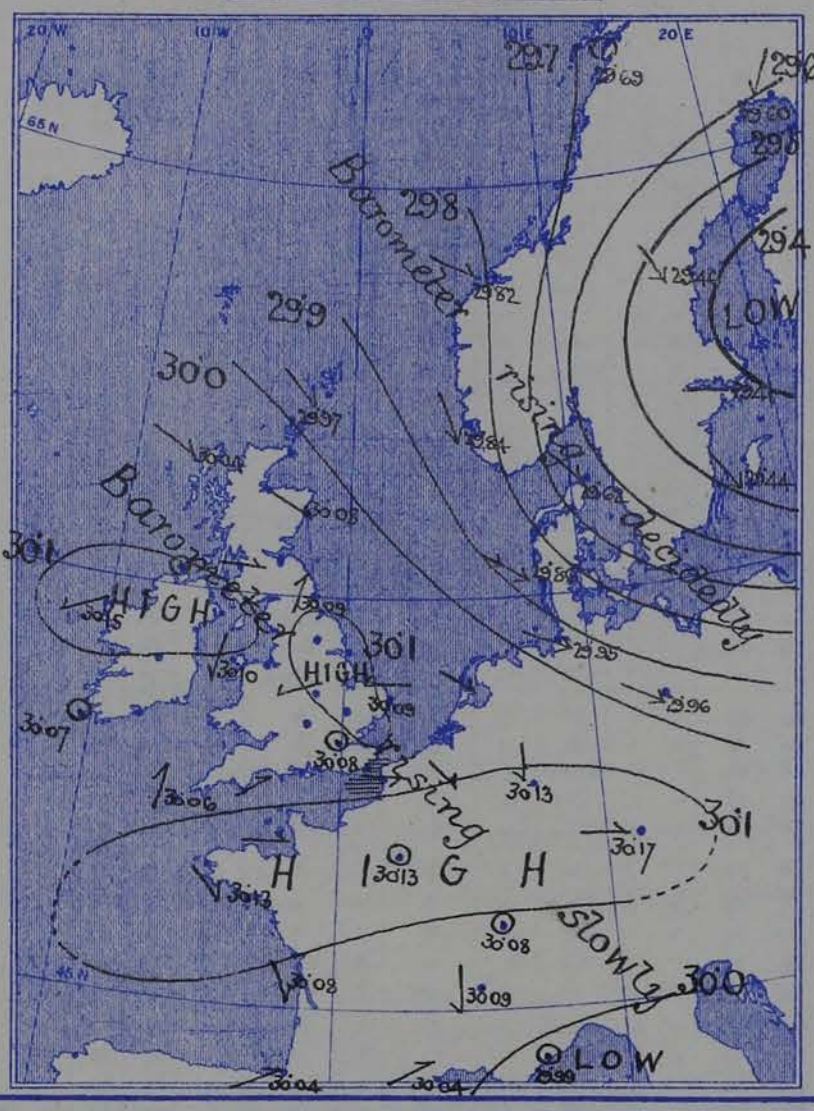
FOR ..... Monday, 25th July, ... 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙
Force 8 to 10 ➤⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ▤ ; *High* ▩



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—{A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95: Means of				Absolute Extremes.				RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 909	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. and more to 30.0 ins. over almost the whole of our Islands, France & Germany.
Lowest. Below 29.4 ins. over Finland.
Gradients slight, and irregular over our Islands and their neighbourhood.
Distribution somewhat complex.
Barometer very steady.

TEMPERATURE

Highest (1) 79° at Perpignan, 73° at Nice, above 60° all over France and the S^ern. parts of our Islands; (2) 67° at Haparanda, 66° at Bodö.
Lowest 50° at Eumburgh Hd. 51° at Christiansund and Skudesnaes, 54° at Wick and Aberdeen, 55° at Malin Hd., Leith and Shields.
Maxima of 70° to 75° were recorded in many parts of our Islands yesterday, 73° at Paris and Munich, 82° at Lyons, 86° at Perpignan.

WIND

Light and extremely variable over our Islands and France, calm at several of the stations. Cyclonic over Scandinavia, Denmark and the Baltic (from between N and W), and blowing a gale at Fanö and Skudesnaes.

WEATHER

Fine and bright over France and the N^ern. parts of Ireland; fair but close over the greater part of the Kingdom, and not very settled – dull over Scandinavia with rain in places. Rain has fallen at the Scandinavian stations generally and slight showers in some parts of Germany. Bright Sunshine recorded yesterday amounted to 14.3 hrs. in London 11.4 hrs. at Cambridge and exceeded 10 hrs. in many parts of England. In Ireland and Scotland there was very little.

SEA

Moderate at Eumburgh Hd. and Spurn Hd., slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone prevailing over our Islands and France is a complex system – having three distinct maxima, and is consequently accompanied by less fair weather than is usual with Summer anticyclones. Close warm weather is probable – but possibly some thunder showers locally.

FORECASTS

For the 24 hours ending at NOON on 26TH JULY 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W. ly and SW. ly breezes; perhaps a shower or two.	6 SCOTLAND WEST	Variable airs and calms; fair as a whole, dull or hazy in places.
1 SCOTLAND EAST	Light and variable airs, cloudy, close, and possibly a thundershower or two in some localities.	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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.49	55	52	NNW	6	0	3
Sumburgh Head							
Stornoway	30.01	58	52	NNW	2	0	2
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30.03	58	56	N	2	6	1
Belmullet	30.05	62	56	E	1	0	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30.07	66	63	WNW	3	C	3
Hurst Castle ...							
Dungeness ...	29.98	65	59	SW	3	6	2
North Foreland	30.01	62	59	ESE	3	6c	2
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30.05	75	72	NW	3	6	*

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

Continental information not received

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 17TH TO 23RD JULY

At the commencement of this week pressure was highest over W.rn and S.rn Europe, lowest over Sweden, Finland and the Gulf of Bothnia, and a depression which appeared off the W. of Scotland on Sunday morning brought rain to Scotland and the N. of Ireland and England, and subsequently to the eastern shores of the North Sea.

Anticyclonic conditions then became prevalent in our Islands and on Wednesday afternoon and evening a system of this kind lay completely over the United Kingdom, while the depression previously noted was passing away to Finland. The weather was then very fine over our Islands, but while the system which brought it moved SE.wd to central Europe, S. breezes began to appear in the W.rn parts of our Islands – ushering in a new shallow depression to our N.rn districts, and a secondary system, the centre of which was found over Ireland on Friday and had reached the North Sea by Saturday morning. This brought rain and thunder to the Irish and English stations – the rain at York amounting to 1.57 ins; while in many other parts, both of our Islands and the Continent, the fall was considerable locally.

At the close of the week these disturbances also were passing off and a new anticyclonic system was apparently advancing to the British Islands from the Atlantic.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Tuesday 26th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 32.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.57	59	NE.	2	c	29.61	+.01	60	51	— 7	N	2	c	*	c	*	73	55	0.12
	Hernösand ...	29.57	60	NW	4	r	29.72	+.26	63	57	+ 5	N	6	b	*	r	*	72	56	0.20
	Stockholm ...	29.57	58	NW	2	o	29.75	+.34	61	57	+ 5	NW	6	o	*	o	*	61	52	0.12
	Wisby	29.62	60	WNW	4	c	29.76	+.32	60	58	+ 3	NNW	4	b	*	c	*	63	52	—
	Karlstad ...	29.67	60	NW	4	o	29.85	+.32	59	54	o	N	4	b	*	o	*	*	*	—
	Bodö	29.77	59	W	2	b	29.83	+.14	53	51	— 13	WSW	4	o	3	b	*	66	52	—
	Christiansund ...	29.95	53	WNW	3	c	30.03	+.21	52	50	+ 1	W	6	o	3	c	*	54	48	—
	Skudesnaes ...	29.98	52	NNW	4	bc	30.06	+.22	51	48	o	NNW	4	o	2	bc	*	54	48	*
	Færder (Christiania Fjord)	29.73	61	N	2	c	29.90	+.32	61	55	+ 1	N	2	b	3	c	*	61	57	—
	Skagen (The Scaw)	29.76	56	WNW	2	o	29.92	+.30	59	57	o	N	1	b	0	o	*	64	55	0.04
	Fanö	29.97	53	WNW	7	c	30.07	+.21	54	50	+ 1	NW	6	bc	*	c	*	57	52	0.04
	Sumburgh Head	30.05	53	W	1	o	30.06	+.09	52	52	+ 2	W	2	m	3	o	*	56	49	—
	Stornoway ...	30.07	58	SSW	3	o	30.09	+.05	55	53	+ 1	SSE	2	c	2	c,o	0.3	58	45	—
	Wick	30.12	55	Z	o	o	30.14	+.07	57	54	+ 3	SSE	1	o	1	o	*	62	45	—
	Nairn	30.09	60	E	2	bc	30.12	+.04	57	53	+ 4	W	1	b	o	bc	*	66	40	—
	Aberdeen ...	30.12	54	SE	1	c	30.14	+.06	56	52	+ 2	S	1	o	1	o,c	3.4	59	52	—
British Islands.	Leith	30.06	61	ESE	1	c	30.13	+.06	57	55	+ 2	SE	1	bm	*	c	*	67	51	—
	Shields	30.08	57	ESE	1	bm	30.13	+.04	52	52	— 3	SW	1	f	2	c,bm	*	66	48	—
	Spurn Head ...	30.09	59	SE	4	b	30.13	+.03	59	57	— 1	SE	4	o	4	b	*	62	57	—
	York	30.08	66	SSE	1	o	30.14	+.02	58	56	+ 2	S	1	o	*	c,o	6.7	70	46	—
	Loughborough ...	30.08	66	W	1	c	30.14	+.04	59	56	+ 2	Z	o	cm	*	cm,cm	*	71	55	—
	Ardrossan ...	30.07	61	WSW	2	b	30.12	+.05	57	55	+ 1	NW	2	cw	1	b	*	64	48	—
	Malin Head ...	30.10	59	E	1	b	30.12	+.02	57	55	+ 2	SE	2	b	o	b	*	62	50	—
	Belmullet ...	30.10	60	ENE	1	o	30.13	+.03	60	56	+ 2	NE	1	bc	*	o	*	64	53	—
	Donaghadee ...	30.12	60	NNW	2	b	30.15	+.04	60	56	+ 4	NNW	3	b	1	b	*	64	43	—
	Liverpool (Bidston)	30.09	59	WNW	1	c	30.12	+.04	58	55	o	W	1	o	1	b,o,c	*	61	52	—
	Holyhead ...	30.12	57	NW	2	b	30.14	+.04	56	54	— 2	Z	o	c	o	b	*	60	49	—
	Parsonstown ...	30.09	63	Z	o	o	30.10	+.01	61	57	+ 3	E	1	o	*	o	0.0	65	56	—
	Valencia ...	30.08	62	Z	o	o	30.09	+.02	62	60	o	NW	1	o	2	o	0.0	64	58	0.03
	Roche's Point ..	30.10	61	SE	3	o	30.10	+.01	58	57	— 1	ESE	2	o	3	m,o,r	*	62	56	0.18
	Pembroke (St. Ann's Hd.)	30.10	61	Z	o	o	30.12	+.05	61	58	+ 2	ESE	2	og	2	o	0.0	64	57	—
	Scilly	30.10	65	Z	o	o	30.10	+.04	64	61	o	SSW	1	c	o	c,o	1.9	69	61	—
	Prawle Point ...	30.11	63	WSW	2	c	30.13	+.04	63	62	+ 1	SSE	1	c	1	c,f	*	67	55	—
	Jersey (St. Aubin's)	30.12	69	W	2	b	30.13	+.01	65	63	+ 2	ENE	1	bcm	1	b,w	*	71	57	—
	Hurst Castle ...	30.09	65	SW	3	c	30.13	+.05	64	62	— 1	WSW	1	cm	1	c,f	*	71	59	—
	Dungeness ...	30.09	63	Z	o	c	30.13	+.07	59	59	— 1	SW	2	f	1	f,m,c	*	63	59	—
	North Foreland	30.12	60	E	2	m	30.14	+.04	61	60	+ 3	SSE	1	cm	1	o,m	*	63	58	—
	London (Brixton) ...	30.08	67	S	1	o	30.13	+.05	64	62	— 1	SE	1	o	*	o	0.5 †	73	62	—
	Oxford	30.10	65	N	2	o	30.13	+.04	62	60	+ 2	Z	o	o	*	o	*	71	59	—
	Cambridge ...	30.10	65	SE	1	o	30.15	+.05	62	60	+ 2	SE	1	o	*	c,o	2.6	74	57	—
	Yarmouth ...	30.12	59	E	4	cv	30.15	+.06	59	56	o	SE	3	c	4	b,cv	*	63	56	—
Germany & Holland.	Cuxhaven ...	30.04	56	WNW	5	o	30.12	+.17	55	51	+ 1	WNW	3	o	*	o	*	57	54	—
	Berlin	30.01	58	W	3	o	30.10	+.14	55	51	o	W	4	c	*	o	*	61	50	—
	Wiesbaden ...	*	*	*	*	*	30.16	+.03	60	56	o	N	2	b	*	*	*	72	52	—
	Munich	30.07	63	W	2	b	30.23	+.06	64	60	— 1	W	1	bc	*	b	*	72	57	—
	The Helder ...	30.11	58	NNW	1	b	30.18	+.09	59	52	+ 1	Z	o	b	1	b	*	61	54	—
Belgium.	Brussels ...	*	*	*	*	*	30.19	+.11	56	? 52	— 5	NE	1	o	*	o	*	72	54	—
	Cape Gris Nez ...	?	62	SW	1	f	?	?	62	60	+ 2	SW	1	m	1	f	*	66	59	—
	Paris	30.12	70	NE	2	b	30.15	+.02	66	63	+ 3	ENE	1	bc	*	c	*	78	57	—
	Brest	30.17	71	WNW	1	b	30.16	?	59	59	— 3	E	1	m	o	b	*	72	54	—
	Lorient	30.10	69	W	3	bc	30.09	—.04	63	61	+ 2	NE	3	b	2	bc	*	77	61	—
France &	Rochefort ...	30.04	73	NW	4	b	30.03	—.05	67	66	— 1	N	2	b	*	b	*	79	64	—
	Belfort	30.07	72	W	1	b	30.17	+.09	64	60	— 2	E	1	m	*	b	*	79	55	—
	Lyons	30.04	78	NE	1	b	30.12	+.03	68	65	o	N	1	b	*	b	*	84	60	—
	Nice	29.95	75	SW	2	b	30.01	+.02	74	68	+ 1	Z	o	b	o	b	*	81	66	—
	Perpignan ...	29.98	85	Z	o	b	30.05	+.01	78	71	— 1	NW	1	b	*	b	*	93	66	—
	Biarritz ...	30.04	72	NNW	3	c	30.02	—.02	70	67	+ 1	N	2	o	2	c	*	75	66	—
Peninsula.	Corunna ...																*			
	Lisbon	30.02	71	NNW	4	b	30.05	.00	73	61	+ 4	N	3	b	*	b	*	88	64	—
	Azores (P. Delgada)	30.15	69	NNW	1	b	30.14	.00	70	64	+ 1	NNE	3	b	2	b	*	77	68	—

For Explanation of Columns, see bottom of last page. † *The corresponding value in yesterday's report should have been 14·2 hrs:.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 9·1 hrs;

WEATHER CHARTS

FOR Tuesday, 26th July, 1898

BAROMETER, WIND AND SEA.

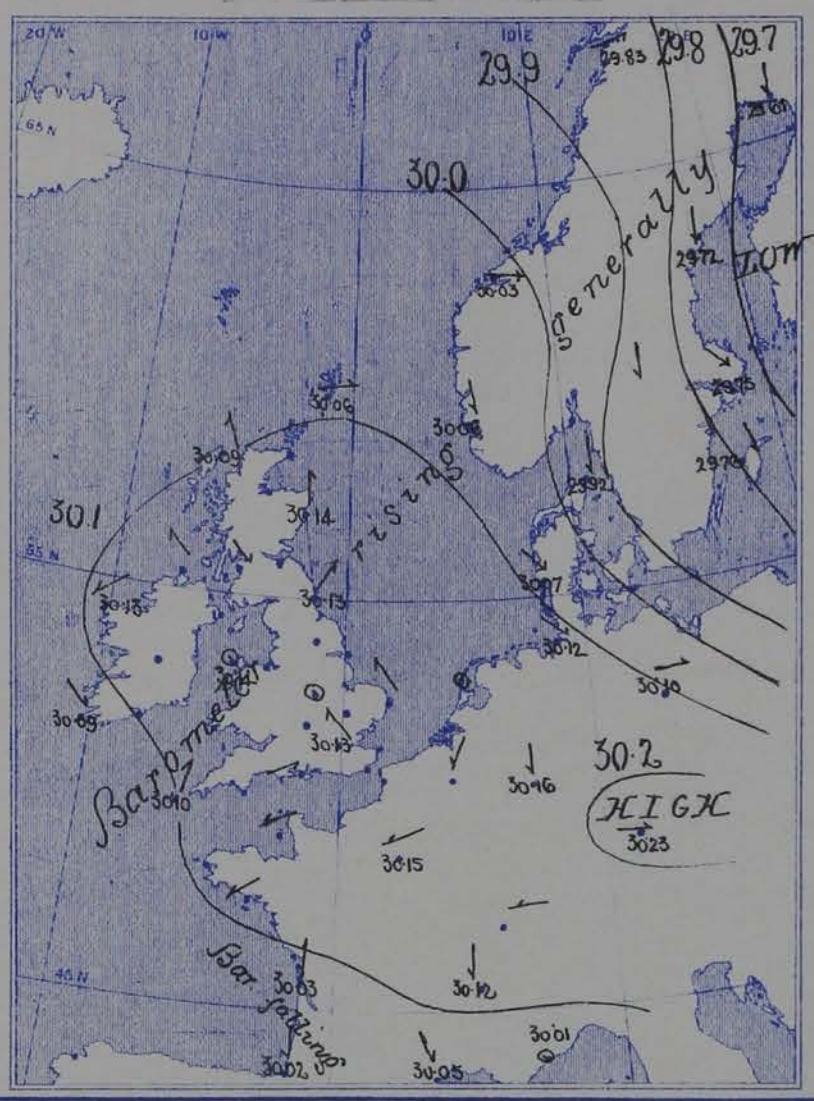
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ≡ : High ▨

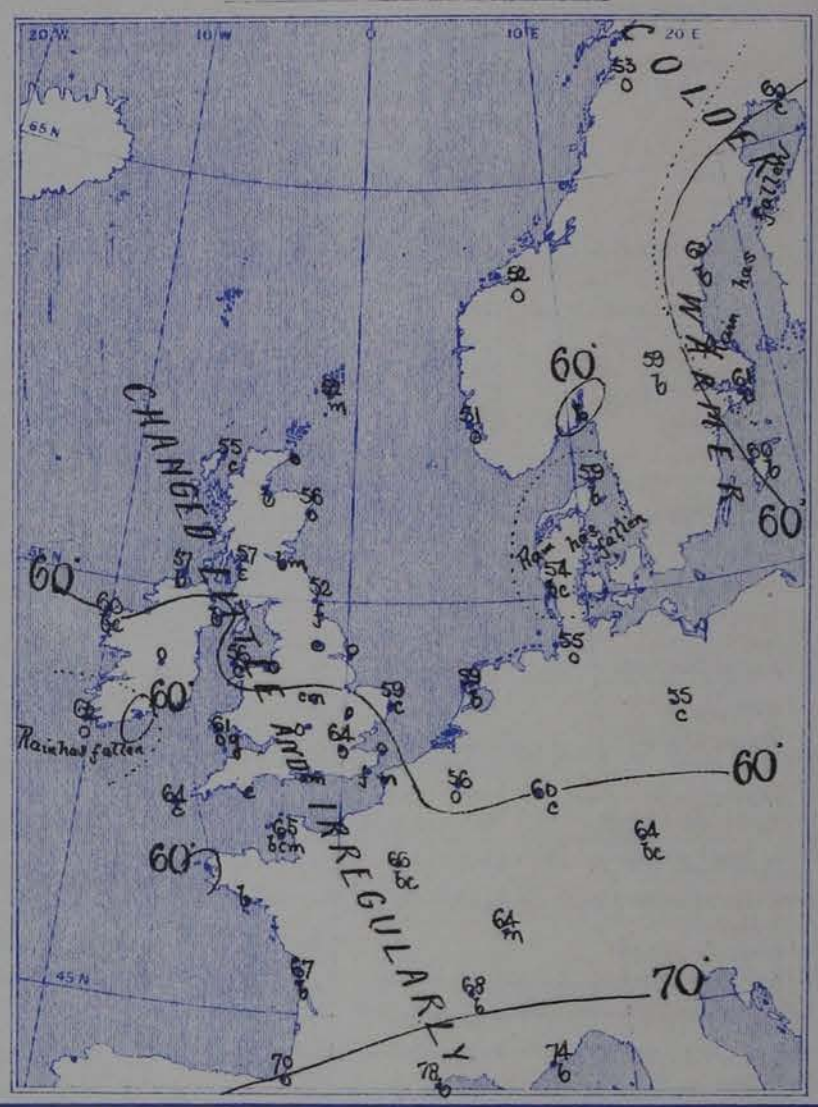


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.23 ins. at Munich; 30.1 ins. and upwards in an anticyclone covering the greater part of W.n Europe.
Lowest 29.7 ins. and less over the Gulf of Bothnia.
Gradients slight, especially over our Islands and France.
Barometer rising in most places, but inclined to fall in the W. of France.

TEMPERATURE

Highest 78° at Perpignan, 74° at Nice, 70° at Biarritz, 68° at Lyons, 67° at Rochefort, 66° at Paris, and 65° at Jersey.
Lowest 51° at Skudesnaas, 52° at Christiansund, Sumburgh Hd. & Shields, 53° at Bodö & 54° at Fano.
During yesterday the thermometer rose to 70° and upwards at several of the English stations, and to 74° at Cambridge.

WIND

Light from the S.rn. or SW.rn in the English Channel, and from the SE.rn on most parts of our north and east coasts, but very variable in the west.
Light from the N.rn. or NE.rn over France and Belgium.
Moderate to strong from the N.rn in Sweden, and from the NW.rn or W.rn over Norway, Denmark and N. Germany.

WEATHER

Fine and bright at some of our N.rn stations, but dull over the United Kingdom generally, with fog at Shields and Dungeness
Fine over the W.rn parts of the Continent as a whole, but dull on the W. coasts of Norway.
A little rain fell yesterday in the S. of Ireland, but in other parts of our Islands the weather remained very dry.

SEA

Moderate off the E. of England, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any important change in the weather.

FORECASTS

For the 24 hours ending at NOON on 27TH JULY 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S.rly and SW.rly winds, light; fair generally.
1	SCOTLAND EAST	Light breezes chiefly SE.rly; fair generally, but dull and misty in places.
2	ENGLAND N.E.	
3	ENGLAND EAST	
4	MIDLAND COUNTIES	Light variable airs, fair generally, but dull and misty in places.
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Variable or W.rly airs, fair generally.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as Nos 1 to 3.
9	IRELAND NORTH	Same as Nos 6 and 7.
10	IRELAND SOUTH	Same as Nos 1 to 3
	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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.90	54	50	NNW	6	o	2
Sumburgh Head	30.03	54	52	WNW	2	c	4
Stornoway	30.06	58	52	WSW	3	c	3
Aberdeen	30.10	57	51	SSE	1	o	1
Shields	30.08	58	56	ESE	3	c	3
Ardrossan	30.09	63	59	SSW	1	b	1
Malin Head ...	30.11	62	59	E	1	b	0
Belmullet	30.10	64	58	ENE	1	o	*
Holyhead	30.14	60	54	N	1	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc	F.	WEA.	SEA.
Valencia	30.08	62	59	Z	o	o	2
Scilly	30.08	67	64	SSW	1	c	o
Jersey	30.14	69	65	WSW	2	b	1
Hurst Castle ...	30.10	67	65	SW	3	c	2
Dungeness ...	30.10	62	60	SSW	1	m	o
North Foreland	30.12	61	59	E	3	o	2
London (Westminster)	30.08	73	62	SW	1	o	*
Yarmouth ...	30.11	62	57	E	3	b	3
Rochefort ...	30.08	79	73	NW	3	be	*

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

Weather in morning fine in places, but cloudy or dull over the United Kingdom generally. Fine over the greater part of France and central and S^rn Europe, but dull in the N^rn countries, with rain at Christiansund, Stockholm and Memel. A little rain falling later in the S. of Ireland and also in Denmark and Sweden, but weather remaining very dry over W^rn Europe as a whole.

Temperature scarcely changed in our Islands, risen in the W^rn parts of the Continent, fallen elsewhere. Morning readings highest 85° at Barcelona, 84° at Aumale, and 82° at Brindisi, above 75° at several of the Mediterranean and Adriatic stations, and above 65° in the N. of Scandinavia. Lowest 50° at Sumburgh Hd., 51° at Christiansund and Skudesnaes, 52° at Hangö, and 53° at Nairn and Fanö. Rising during day to 70° and upwards in many parts of central and S^rn England; exceeding 80° over the Spanish peninsula and the S. of France, and reaching 93° at Perpignan.

Wind light from the W^rd or SW^rd in the English Channel, and from the E^rd on most parts of our E. and W. coasts. Light from the NW^rd in the north of Scotland, and moderate to strong from the same quarter over Scandinavia and Denmark; W^rly in Germany and Austria; SW^rly over the Baltic provinces, with a gale at Memel; E^rly or NE^rly in the extreme northern parts of Sweden and Russia. Light and variable over France, Italy and the Spanish peninsula.

Barometer highest 30.0 ins. to 30.1 ins. or a little more in an anticyclone covering the greater part of W^rn, central and S^rn Europe. Lowest 29.5 ins. and less in a large and well marked depression lying over Finland, Sweden and the N^rn parts of the Baltic. Depression moving E^wds later, and barometer rising rather decidedly over Scandinavia and Denmark, scarcely any change occurring 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Wednesday 27th JULY, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.72	59	N	2	o	29.76	+ .15	56	50	— 4	N	2	bc	*	o	*	70	54	—
	Hernösand ...	29.82	62	NW	4	b	29.87	+ .15	59	51	— 4	NW	6	b	*	b	*	73	54	—
	Stockholm ...	29.87	59	2	0	b	29.93	+ .18	58	54	— 3	NNW	2	o	*	b	*	70	57	024
	Wisby	29.93	60	WSW	4	bc	29.95	+ .19	60	58	o	NNW	4	b	*	bc	*	66	57	—
	Karlstad ...	29.89	66	W	2	bc	29.96	+ .11	61	55	+ 2	NNE	4	b	*	bc	*	*	*	—
	Bodö	29.90	62	W	4	o	29.91	+ .08	51	48	— 2	N	2	o	1	o	*	55	48	—
	Christiansund ...	30.06	52	W	4	o	30.04	+ .01	51	49	— 1	WNW	4	r	3	o	*	54	48	004
	Skudesnaes ...	30.11	53	NNW	4	b	30.07	+ .01	53	51	+ 2	N	4	b	2	cb	*	57	48	*
	Færder (Christiania Fjord)	29.91	62	SW	2	b	29.96	— .06	57	57	— 4	NNE	1	m	2	b,	*	64	55	—
	Skagen (The Scaw)	29.97	56	WSW	1	m	29.96	+ .04	57	55	— 2	S	1	m	0	m	*	64	52	—
	Fanö	30.10	55	WNW	4	c	30.06	— .01	55	52	+ 1	WNW	4	c	*	c	*	54	54	—
British Isl.	Sumburgh Head	30.10	54	W	1	o	30.05	— .01	53	53	+ 1	W	1	r	2	o	*	56	51	002
	Stornoway ...	30.10	60	WSW	1	o	30.08	— .01	57	56	+ 2	W	1	o	1	c,o	0.9	60	52	003
	Wick	30.14	58	2	o	o	30.09	— .05	59	56	+ 2	2	o	bc	0	o	*	62	45	—
	Nairn	30.09	67	E	1	bc	30.09	— .03	58	55	+ 1	W	1	bc	1	bc	*	67	44	—
	Aberdeen ...	30.12	56	SE	1	ogm	30.10	— .04	54	53	— 2	S	1	ogm	1	bc,ogm	6.5	62	54	—
	Leith	30.09	62	SE	2	b	30.09	— .04	55	54	— 2	NE	1	m	*	b	*	65	54	—
	Shields	30.08	59	E	3	m	30.08	— .05	53	53	+ 1	NW	1	f	2	f,m	*	63	51	—
	Spurn Head ...	30.08	61	SE	4	c	30.08	— .05	60	54	+ 1	SE	2	o	3	o,c	*	61	58	—
	York	30.09	67	S	1	o	30.09	— .05	60	56	+ 2	SW	1	o	*	c,o	3.0	71	56	—
	Loughborough ...	30.08	70	W	2	c	30.11	— .03	61	58	+ 2	WNW	1	omgd	*	cm,omg	*	78	59	—
	Ardrossan ...	30.08	61	SW	1	bm	30.10	— .02	58	57	+ 1	SW	1	bm	1	bm	*	67	51	—
	Malin Head ...	30.12	59	E	2	b	30.12	.00	59	58	+ 2	NW	1	c	0	b	*	64	57	—
	Belmullet ...	30.16	63	NNE	1	b	30.18	+ .05	60	57	o	N	1	o	*	b	*	65	57	—
	Donaghadee ...	30.13	63	NNW	3	b	30.12	— .03	60	56	o	NW	3	bc	1	b	*	63	48	—
	Liverpool (Bidston)	30.10	61	NW	1	bc	30.10	— .02	61	55	+ 3	W	2	b	1	bc	*	65	57	003
	Holyhead ...	30.12	59	N	1	cp	30.13	— .01	58	56	+ 2	N	1	c	1	c,cp	*	61	54	—
	Parsonstown ...	30.10	64	E	1	o	?30.18	+ .08	62	58	+ 1	2	o	b	*	o	0.1	64	55	—
	Valencia ...	30.10	64	N	1	o	30.20	+ .11	62	58	o	NNW	2	bc	2	o	0.5	65	55	—
	Roche's Point ..	30.10	60	SE	2	rm	30.16	+ .06	62	60	+ 4	NNW	2	c	3	o,rm	*	62	57	—
	Pembroke (St. Ann's Hd.)	30.10	64	SW	2	c	30.12	.00	62	60	+ 1	W	2	bc	2	c	2.2	65	60	—
	Scilly	30.11	64	S	1	cpm	30.12	+ .02	63	60	— 1	NNW	1	c	0	c,cmp	2.6	71	60	005
	Prawle Point ...	30.11	67	WSW	2	bc	?30.12	— .01	66	62	+ 3	WSW	1	c	1	bc,b	*	69	60	—
	Jersey (St. Aubin's)	30.09	68	NW	3	cg	30.09	— .04	66	63	+ 1	W	2	bm	2	bcm,cg,bl	*	73	58	—
	Hurst Castle ...	30.10	62	WSW	1	f	30.08	— .05	67	64	+ 3	2	o	bm	0	cm,f	*	71	56	—
	Dungeness ...	30.10	60	SSW	2	f	30.04	— .09	62	61	+ 3	NNW	1	o	1	f	*	64	57	—
	North Foreland	30.12	63	ESE	2	bc	30.08	— .06	63	60	+ 2	ENE	3	c	2	o,bc	*	64	59	—
	London (Brixton) ...	30.10	70	SE	1	bc	30.08	— .05	62	60	— 2	SW	1	cm	*	ogp,o	0.1	74	60	—
	Oxford	30.08	68	NE	1	o	30.09	— .04	63	61	+ 1	NNW	1	c	*	o	*	75	60	—
	Cambridge ...	30.10	68	ESE	1	o	30.10	— .05	62	60	o	ESE	1	c	*	o	0.1	70	53	—
	Yarmouth ...	30.13	60	SE	4	c	30.09	— .06	60	57	+ 1	ESE	5	bc	4	c	*	62	58	—
Germany & Holland.	Cuxhaven ...	30.15	55	WNW	2	o	30.11	— .01	55	52	o	WSW	1	o	*	o	*	57	54	—
	Berlin	30.16	60	WNW	2	o	30.14	+ .04	56	53	+ 1	WNW	2	o	*	o	*	63	54	—
	Wiesbaden ...	*	*	*	*	*	30.08	— .08	64	60	+ 4	NE	1	c	*	*	*	73	59	—
	Munich	30.19	66	2	o	c	30.12	— .11	65	62	+ 1	E	1	b	*	c	*	73	52	—
	The Helder ...	30.16	59	NE	1	b	30.12	— .06	59	53	o	E	1	b	1	b	*	63	54	—
Belgium.	Brussels ...	*	*	*	*	*	30.07	— .12	64	59	+ 8	E	1	b	*	c	*	71	?	—
	Cape Gris Nez ...	?	64	ESE	1	m	?	?	62	60	o	WNW	1	m	0	m	*	70	59	—
	Paris	30.08	75	E	2	bc	30.02	— .13	64	62	— 2	NE	1	bc	*	bc	*	81	62	004
	Brest	30.14	67	N	3	b	30.16	.00	63	61	+ 4	NNW	1	o	0	b	*	70	55	—
	Lorient	30.04	72	NE	4	bc	30.11	+ .02	64	64	+ 1	NNW	2	b	1	bc	*	88	59	—
France &	Rochefort ...	30.06	73	W	3	b	30.08	+ .05	66	65	— 1	NW	4	b	*	b	*	82	64	—
	Belfort														*		*			
	Lyons	30.02	81	NE	1	b	30.02	— .10	64	63	— 4	E	2	o	*	bl,bv,h	*	87	59	0.16
	Nice	29.99	76	SW	2	b	30.03	+ .02	71	68	— 3	S	3	b	1	b	*	84	68	—
	Perpignan ...	29.98	77	2	o	o	30.02	— .03	75	66	— 3	NW	3	b	*	o	*	88	66	—
	Biarritz ...	30.01	71	NW	4	o	30.08	+ .06	69	65	— 1	W	4	bc	2	o	*	75	66	—
Penin-sula.	Corunna ...														*		*			
	Lisbon	30.06	69	NNW	4	b	30.12	+ .07	69	62	— 4	N	3	b	*	b	*	84	64	—
	Azores (P. Delgada)	30.18	69	NE	4	bc	30.19	+ .05	68	66	— 2	NE	3	o	2	bc	*	75	66	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 6·6 hrs;

WEATHER CHARTS

FOR Wednesday, 27th July, 1898

BAROMETER, WIND AND SEA.

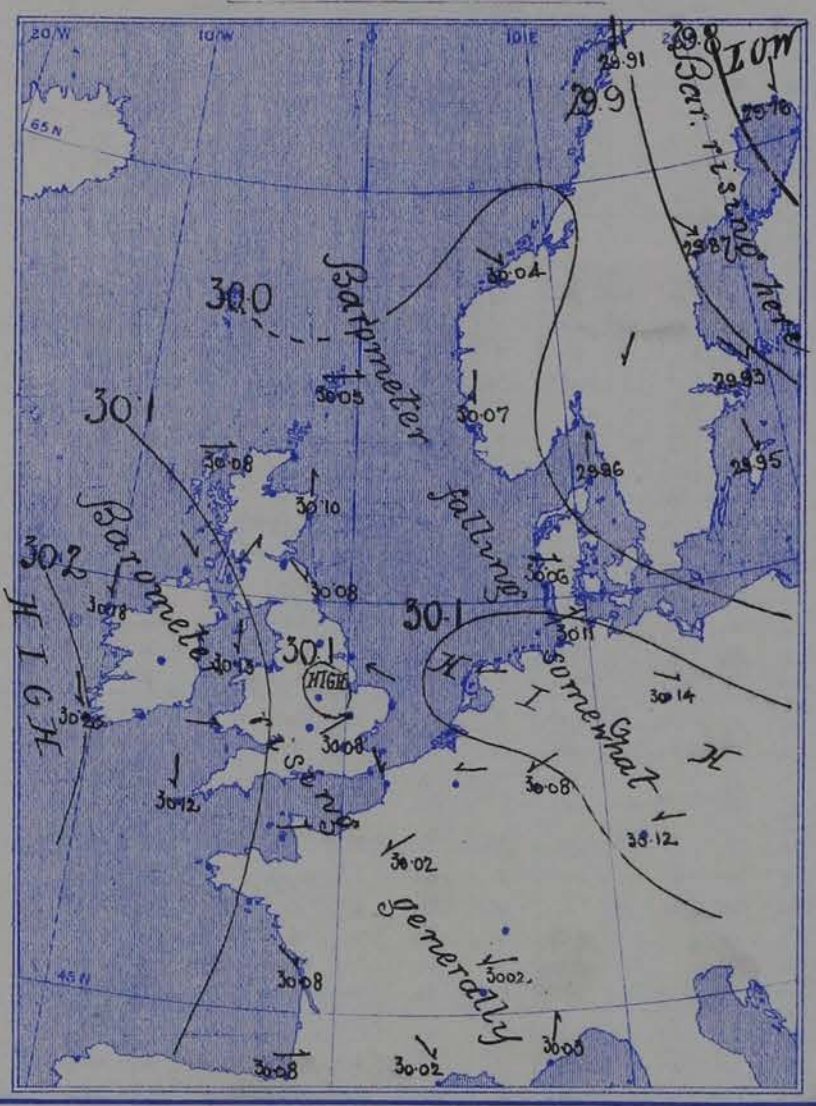
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ▤ ; High ▩

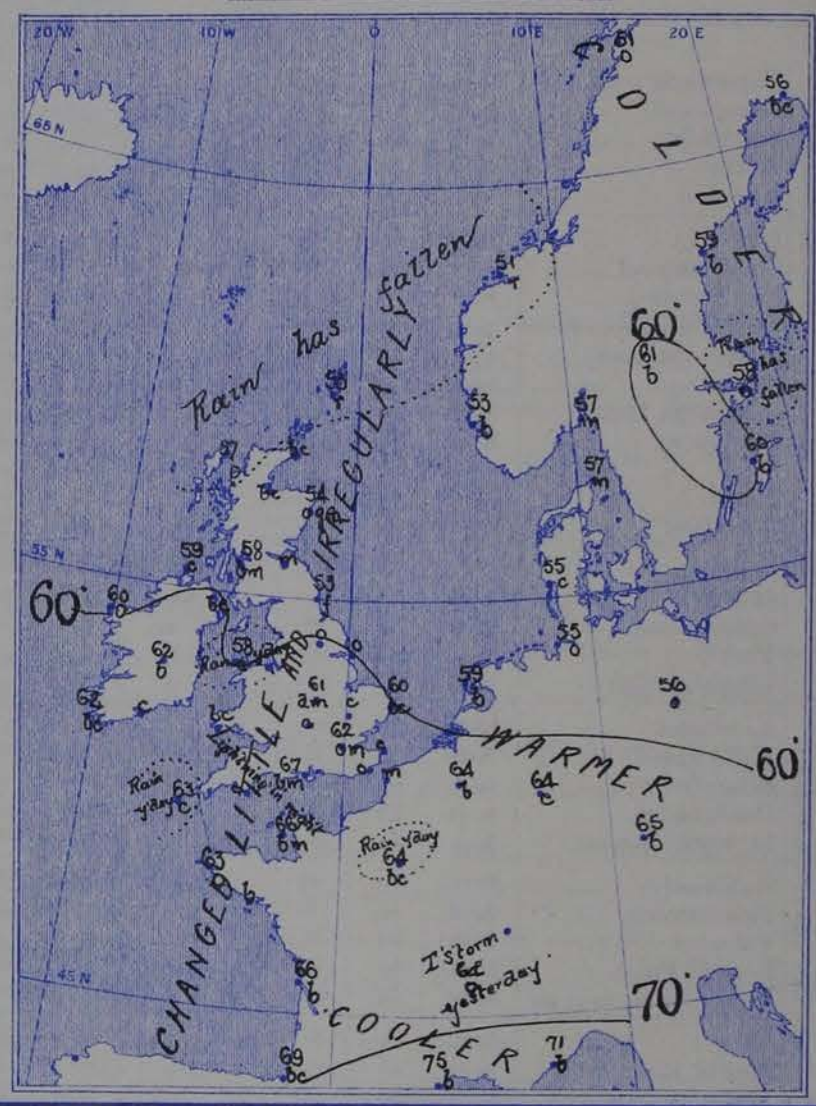


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—{ A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95: Means of				Absolute Extremes.				RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30.20 ins. at Valencia (Ireland); 30.1 ins. and upwards in an anticyclone extending from the Atlantic over all the more W^rn. parts of our Islands and the Spanish peninsula, and also in another system over Holland and Germany.
Lowest 29.8 ins. and less in Lapland.
Gradients slight. Barometer falling slightly in the extreme N. of our Islands and the W. of Norway, as well as in Denmark, Germany, the Netherlands & central France, but rising elsewhere.

TEMPERATURE — Highest 75° at Perpignan, 71° at Nice, 69° at Biarritz and Lisbon, 67° at Hurst Castle, and 66° at Prawle Point, Jersey and Rochefort.
Lowest 51° at Bodö and Christiansund, 53° at Skudesnaes, Sumburgh Hd. & Shields, & 54° at Aberdeen.
During yesterday the thermometer rose to between 70° and 75° at many of the English stations, and to 78° at Loughborough.

WIND — Light from the N^rn. or NW^rn. on the west coasts of our Islands and France, but variable or SE. on our east coasts and also over the Netherlands.
Light from the W^rn. in the north of Scotland; N^rly. or NW^rly. in Scandinavia and Denmark, and strong in force at Hernösand.

WEATHER — Dull and misty in the E^rn. and central parts of our Islands, with drizzling rain at Loughborough
Fine in nearly all other parts of W^rn. Europe, but raining at Sumburgh Hd. & also at Christiansund
Showers fell yesterday at some of our W^rn. and extreme N^rn. stations, and lightning was seen at night at Prawle Pt. and Jersey. A thunderstorm occurred yesterday at Lyons.

SEA — Slight or smooth generally, but moderate at Yarmouth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depression which was forming over Gt. Britain last evening is now breaking up, and a new anticyclone is apparently spreading in from the Atlantic. Fair dry weather is therefore likely to continue over the greater part of the Kingdom.

FORECASTS

For the 24 hours ending at NOON on 28TH. JULY 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W^rly. winds, light, cloudy, rain locally.
1	SCOTLAND EAST	Variable breezes, finally NW^rly. cloudy at first with local showers, then fair.
2	ENGLAND N.E.	
3	ENGLAND EAST	Variable breezes, finally N^rly. fair generally.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	N^rly. and NW^rly. winds, light, fair generally.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·10	57	52	NNW	6	c	2	Valencia	30·10	64	61	N	2	o	3
Sumburgh Head	30·10	54	53	W	1	o	3	Scilly	30·11	67	63	SSW	1	c	0
Stornoway	30·10	59	55	S	3	c	3	Jersey	30·12	72	64	NNW	3	bc	3
Aberdeen	30·13	61	56	SE	1	bc	1	Hurst Castle ...	30·12	69	66	SW	2	cm	2
Shields	30·11	60	58	E	3	m	2	Dungeness ...	30·13	62	60	SSW	2	f	1
Ardrossan	30·10	63	61	WSW	2	bm	1	North Foreland	30·15	61	60	SSE	3	o	2
Malin Head ...	30·14	64	61	E	1	b	o	London (Westminster)	30·11	71	64	S	o	o	*
Belmullet	30·13	65	58	NNE	1	b	*	Yarmouth ...	30·14	62	59	SE	4	c	4
Holyhead	30·14	61	56	N	1	c	1	Rochefort ...	30·03	79	75	W	3	bc	*

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

Continental information not received.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France ; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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

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BRITISH ISLANDS. FRANCE & BELGIUM. GERMANY & HOLLAND. SCANDINAVIA PENIN-SULA.

DAILY WEATHER REPORT

for 8 a.m. on Thursday 28th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.75	55	NNW	2	o	29.76	·00	57	51	+ 1	Z	o	o	*	o	*	64	48	—
	Hernösand ...	29.89	59	NW	2	bc	29.90	+ ·03	58	51	— 1	WNW	6	b	*	bc	*	70	52	—
	Stockholm ...	29.94	60	SE	2	o	29.92	— ·01	63	59	+ 5	S	2	r	*	o	*	70	52	—
	Wisby	29.97	57	S	4	b	29.94	— ·01	58	55	— 2	S	4	o	*	b	*	63	54	—
	Karlstad ...	29.91	64	SW	2	bc	29.90	— ·06	60	58	— 1	WNW	2	b	*	bc	*	*	*	—
	Bodö	29.89	51	NW	2	r	29.87	— ·04	51	49	0	SW	2	c	1	r	*	55	48	0.12
	Christiansund ...	30.09	52	WNW	1	c	30.01	— ·03	52	49	+ 1	WNW	3	c	3	c	*	54	48	0.16
	Skudesnaes ...	30.05	54	NW	4	b	29.95	— ·12	54	52	+ 1	ESE	2	c	1	bc,b	*	59	48	*
	Færder (Christiania Fjord)	29.91	59	SSW	2	m	29.90	— ·06	59	55	+ 2	SE	1	m	2	m	*	61	57	—
	Skagen (The Scaw)	29.93	60	SW	1	m	29.90	— ·06	59	57	+ 2	SW	1	m	0	m	*	70	54	—
	Fanö	30.04	54	WNW	6	c	30.00	— ·06	56	53	+ 1	NW	4	b	*	c	*	61	54	—
British Islands.	Sumburgh Head	30.01	52	W	1	o	29.89	— ·16	51	51	— 2	NE	1	r	2	o	*	56	47	0.01
	Stornoway ...	29.99	59	WSW	1	o	29.86	— ·22	54	53	— 3	NE	5	o	5	bc,o	1.7	62	50	0.30
	Wick	30.07	57	Z	0	bc	29.83	— ·26	52	51	— 7	Z	0	m	0	bc,p	*	62	50	0.05
	Nairn	30.01	63	E	1	c	29.78	— ·31	58	57	0	Z	0	r	0	c	*	68	50	0.17
	Aberdeen ...	30.04	55	SE	1	ogm	29.78	— ·32	60	57	+ 6	S	1	om	1	ogm,r	0.8	60	54	0.02
	Leith	30.02	62	Z	0	o	29.81	— ·28	59	57	+ 4	SW	2	r	*	o	*	67	54	0.05
	Shields	30.04	57	NNE	2	f	29.89	— ·19	58	56	+ 5	WSW	2	o	2	f,m,f	*	60	52	—
	Spurn Head ...	30.04	61	SE	3	c	29.92	— ·16	60	57	0	WSW	3	c	3	c	*	65	54	—
	York	30.04	70	W	1	bc	29.95	— ·14	58	56	— 2	WSW	1	o	*	o,bc	5.2	73	53	—
	Loughborough ...	30.06	74	W	2	b	30.00	— ·11	58	56	— 3	WSW	1	omw	*	r,c,b,o,o	*	76	50	0.19
	Ardrossan ...	30.04	62	W	4	b	29.84	— ·26	59	57	+ 1	W	5	c	3	b	*	67	56	0.05
	Malin Head ...	30.08	63	W	2	bc	29.94	— ·18	56	55	— 3	N	6	bcq	5	b,bc	*	64	55	0.27
	Belmullet ...	30.12	62	W	1	o	30.12	— ·06	57	53	— 3	NNW	5	o	*	b,o	*	66	53	0.05
	Donaghadee ...	30.10	62	NW	2	c	29.94	— ·18	57	57	— 3	NW	4	o	2	c	*	67	56	0.03
	Liverpool (Bidston)	30.08	60	W	3	b	29.95	— ·15	60	57	— 1	WSW	2	o	2	b	*	64	55	—
	Holyhead ...	30.12	60	SW	2	bc	29.98	— ·15	61	58	+ 3	WSW	2	cp	1	b,bc	*	65	56	0.01
	Parsonstown ...	30.14	63	Z	0	o	30.05	— ·13	57	55	— 5	NW	1	o	*	bc,o,r	4.6	66	56	0.12
	Valencia ...	30.17	63	W	2	o	30.09	— ·11	61	58	— 1	N	5	o	4	bc,o	11.7	65	59	0.21
	Roche's Point ...	30.14	66	WSW	2	c	30.03	— ·13	62	61	0	NNW	3	c	2	c,r	*	68	58	0.18
	Pembroke (St. Ann's Hd.)	30.13	62	NW	2	b	30.01	— ·11	58	57	— 4	NW	5	rg	4	b	4.3	68	58	0.05
	Scilly	30.15	64	WNW	2	c	? 30.06	— ·06	61	61	— 2	WSW	4	o	2	c	7.0	67	59	—
	Prawle Point ...	30.13	66	WSW	3	bc	30.05	— ·07	61	60	— 5	SW	2	cp	1	bc	*	70	53	—
	Jersey (St. Aubin's)	30.11	68	WNW	3	bm	30.07	— ·02	64	62	— 2	W	3	cm	3	bm,w	*	73	61	—
	Hurst Castle ...	? 30.07	66	WSW	1	o	? 30.02	— ·06	62	59	— 5	NE	1	om	0	br,o	*	74	57	0.49
	Dungeness ...	30.07	65	NE	1	bc	30.00	— ·04	62	60	0	Z	0	c	0	c,bc	*	68	54	—
	North Foreland	30.08	63	NE	3	b	30.00	— ·08	64	61	+ 1	Z	0	c	1	b	*	66	58	—
	London (Brixton) ...	30.06	65	NW	1	o	30.00	— ·08	60	58	— 2	WSW	1	ogm	*	e,fbr,o	2.6	79	58	0.10
	Oxford	30.07	67	SSW	3	r	30.00	— ·09	61	57	— 2	SW	1	o	*	f,r	*	75	55	0.05
	Cambridge ...	30.06	75	Z	0	o	29.99	— ·11	61	58	— 1	N	1	o	*	bc,o	8.1	76	56	0.03
	Yarmouth ...	30.08	62	SE	3	b	29.96	— ·13	60	59	0	W	1	o	3	b	*	63	58	—
Germany & Holland.	Cuxhaven ...	30.09	57	NW	2	o	30.03	— ·08	55	53	0	Z	0	o	*	o	*	59	54	—
	Berlin	30.07	58	NW	3	b	30.03	— ·11	57	54	+ 1	Z	0	o	*	b	*	66	54	—
	Wiesbaden ...	*	*	*	*	*	30.03	— ·05	61	58	— 3	Z	0	b	*	*	*	75	54	—
	Munich	30.07	64	NE	3	bc	30.05	— ·07	62	59	— 3	W	2	bc	*	bc	*	77	55	0.04
	The Helder ...	30.08	60	NE	1	b	30.00	— ·12	59	56	0	SSE	1	c	1	b	*	63	52	—
Belgium.	Brussels ...	*	*	*	*	*	30.02	— ·05	66	61	+ 2	Z	0	b	*	b	*	75	51	—
	Cape Gris Nez ...	?	65	E	1	m	?	?	61	59	— 1	WSW	1	m	1	m	*	68	57	—
	Paris	30.04	72	NNE	2	b	30.05	+ ·03	63	61	— 1	NNE	2	bc	*	b	*	77	57	—
	Brest ...	30.14	68	NNW	2	b	30.12	— ·04	60	59	— 3	WNW	1	b	1	b	*	72	57	—
	Lorient	30.10	69	W	4	bc	30.13	+ ·02	62	61	— 2	WNW	3	bc	1	bc	*	70	59	—
France &	Rochefort ...	30.11	77	NNW	5	c	30.15	+ ·07	66	64	0	NE	2	b	*	c	*	82	52	—
	Belfort	29.97	71	WNW	2	m	29.99	— ·03	63	59	+ 3	Z	0	m	*	m	*	79	55	—
	Lyons ...	29.98	77	NNW	1	bc	30.04	+ ·02	64	61	0	W	1	o	*	bc,2	*	82	62	—
	Nice	29.94	73	SSW	2	b	29.88	— ·15	72	67	+ 1	Z	0	b	1	b	*	86	68	—
	Perpignan ...	29.97	82	NW	3	b	30.05	+ ·03	73	62	— 2	NW	2	b	*	b	*	86	68	—
	Biarritz ...	30.10	72	NW	3	bc	30.11	+ ·03	68	64	— 1	NW	3	c	2	bc	*	75	64	—
Peninsula.	Corunna ...																*			
	Lisbon	30.01	72	N	5	b	30.05	— ·07	75	65	+ 6	NNE	3	b	*	b	*	84	68	—
	Azores (P. Delgada)	30.19	69	NE	3	b	30.16	— ·03	72	67	+ 4	NNE	1	b	2	b	*	77	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 11·0 hrs;

WEATHER CHARTS

FOR ..... Thursday, 28th July, 1898

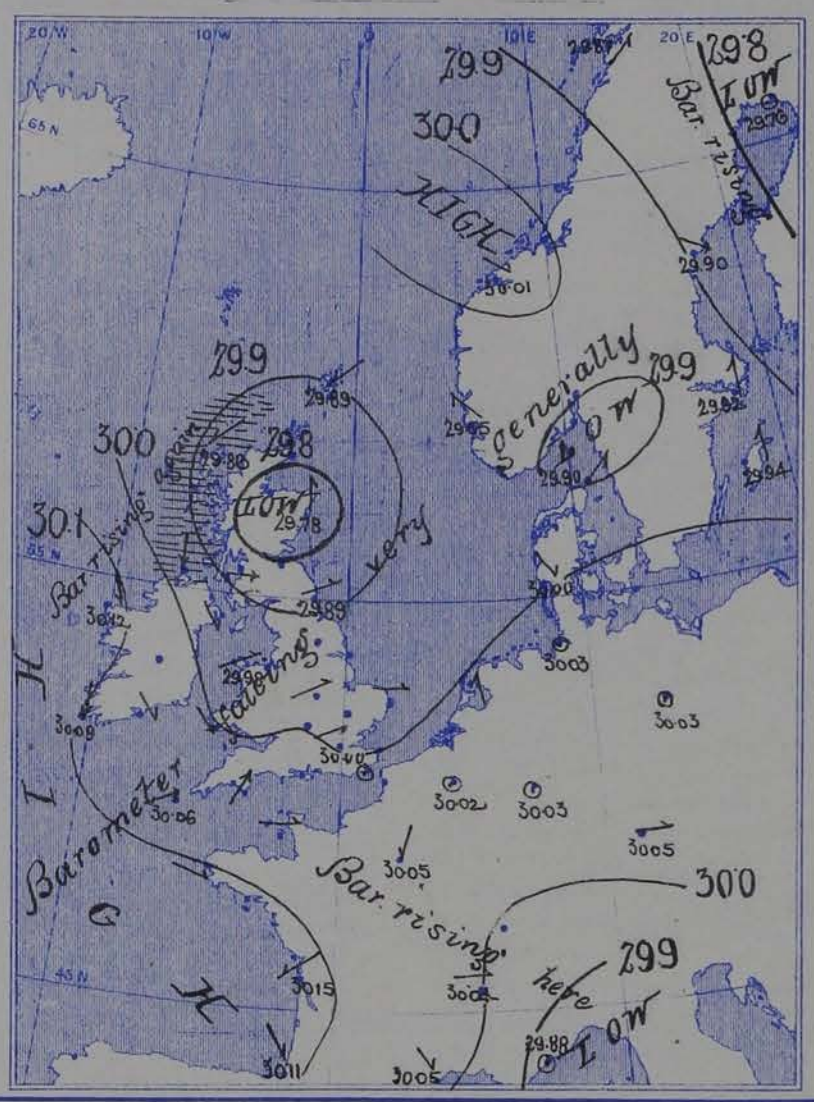
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ⟫⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

SEA—*Rough* ≡ ; *High* ▬

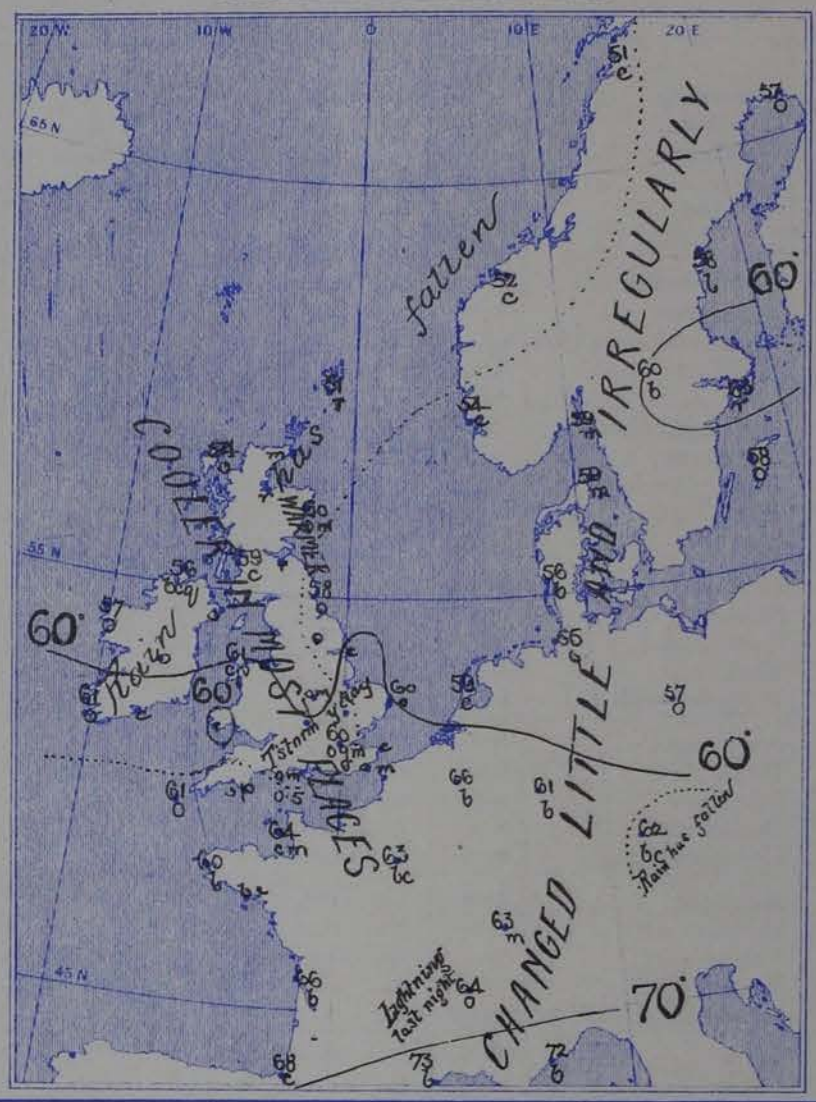


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95: Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·1 ins. and upwards in an anticyclone lying over the Bay of Biscay, the W. of France and the extreme W. of Ireland.

Lowest 29·8 ins. and less in a well marked depression over Scotland, and also in a shallow area over Lapland.

Gradients slight generally, but moderate over our extreme NW. coasts.

Barometer falling over the greater part of our area, but rising again on our extreme W^m. coasts; rising a little in France and also in the N^rn. parts of Sweden.

TEMPERATURE

Highest (1) 73° at Perpignan, 72° at Nice, 68° at Biarritz, 66° at Rochefort, and 64° at Jersey and the N. Foreland; (2) 63° at Stockholm.

Lowest 51° at Bodo and Sumburgh Hd., 52° at Christiansund and Wick, 54° at Skudesnaes and Stornoway, and 53° at Cuxhaven.

During yesterday the thermometer rose to between 70° and 75° at many of the English stations, to 76° at Cambridge, and to 79° in London.

WIND

Light from the SW^wd. over the greater part of England, and also in the east of Scotland, NE^ly in the north of Scotland; N^ly or NW^ly in Ireland, and strong in force at Malin Head.

Light from the NW^wd. in the west and south of France; calm in Germany, W^ly or SW^ly in Denmark; variable in Scandinavia.

WEATHER

Cloudy or dull over our Islands generally, with rain at Nairn and Leith, and passing showers on several parts of our W. and SW. coasts.

Fine at most of the Continental stations.

Since yesterday morning rain has fallen in many parts of the United Kingdom. Thunderstorms or thunder only occurred yesterday in several parts of our S^rn. counties, the accompanying rainfall being heavy at Hurst Castle and in some portions of the London district. Lightning was seen at Lisbon in the night.

SEA

Slight or smooth generally, but rather rough at Stornoway and Malin Head.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over Scotland seems likely to move E^wds. Shallow secondary disturbances are forming over England, and showery weather is therefore probable in most districts, with thunder in places.

FORECASTS

For the 24 hours ending at NOON on 29TH JULY 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Wind shifting to the NW^wd. or N^rly. and freshening; rainy at first, but improving later.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No. 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	W^ly. to NW^ly. winds, light or moderate; cloudy, some showers, thunder locally.
6	SCOTLAND WEST	W^ly. to NW^ly. winds, freshening considerably; squally, showery.
7	ENGLAND N.W.	
8	ENGLAND S.W.	W^ly. to N^ly. winds, fresh; cloudy, some showers, possibly thunder.
9	IRELAND NORTH	N^ly. winds, strong at first, moderating later; cloudy and showery, then fair.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes	? 30·06	59	55	NNW	6	bc	2
Sumburgh Head	30·04	54	52	W	2	o	2
Stornoway	30·03	61	58	SSW	3	bc	3
Aberdeen	30·07	58	55	SE	2	om	1
Shields	30·07	60	58	NE	3	m	2
Ardrossan	30·07	64	61	SW	2	b	2
Malin Head ...	30·11	64	61	WNW	3	b	1
Belmullet	30·17	66	60	WSW	2	b	*
Holyhead	30·14	65	60	NW	2	b	1
Valencia	30·20	64	60	W	3	bc	4
Scilly	30·14	65	63	NNW	2	c	0
Jersey	30·12	72	65	W	3	b	3
Hurst Castle ...	30·09	64	64	W	2	br	1
Dungeness ...	30·07	65	62	ENE	2	c	1
North Foreland	30·09	65	60	ENE	3	b	2
London (Westminster)	30·06	76	65	L	0	og	*
Yarmouth ...	30·10	63	58	SE	4	b	3
Rochefort ...	30·12	73	70	NW	4	b	*

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

Weather in morning dull and misty in the E.ⁿ and central parts of Gt. Britain. Fine in most other parts of our Islands and the Continent, but rainy at Sumburgh Hd. and Christiansund, as well as at Archangel. Rain falling later in the W. and N. of our Islands, and also in the west of Norway. Thunderstorms or thunder only occurring in the S. of England, with heavy rain at Hurst Castle and in portions of the London district.

Temperature changed little and irregularly. Morning readings highest 84° at Athens, Aumale and Nyon, 83° at Sanguinaire, and 80° at Barcelona; above 75° in many parts of Sᵗʳⁿ Europe. Lowest 51° at Archangel, Bodö and Christiansund, 53° at Skudenaes, Sumburgh Hd., Shields and Prague, and 54° at Aberdeen and Copenhagen. Rising during day to between 70° and 75° at many of the English stations and to 79° in London; exceeding 80° in the S. of France, and reaching 86° at Nice and Perpignan.

Wind light from the Nᵗʰ or NWᵉʳⁿ on the west coasts of our Islands and France, but variable or SE by E on our east coasts. Light from the Wᵉʳⁿ in the north of Scotland; N. or NW by N over Scandinavia, Denmark and Nᵒʳᵗʰ Russia. Variable over Austria, Italy and the S. of France; E by S over central France and the Netherlands. Subsequently backing to the Wᵉʳⁿ or SWᵉʳⁿ on our west coasts; no important change occurring elsewhere.

Barometer highest 30·1 ins. and upwards in an anticyclone extending from the Atlantic over all the more Wᵉʳⁿ parts of our Islands and the Spanish peninsula, as well as in another system over Holland and Germany. Lowest 29·5 ins. and less in a depression passing Eᵃˢᵗ across the extreme N. of Russia; 29·9 ins. and less in a shallow area over Greece and Asia Minor. New depression approaching Scotland later from the NWᵉʳⁿ, and barometer falling in most parts of the United Kingdom.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Friday 29th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.83	55	7	0	bc	29.88	+ .12	58	53	+ 1	7	0	c	#	bc	#	63	46	—
	Hernösand ...	29.92	54	7	0	b	29.96	+ .06	58	51	0	N	2	b	#	b	#	72	50	—
	Stockholm ...	29.93	59	7	0	0	29.94	+ .02	59	56	— 4	SE	2	r	#	0	#	68	55	0.04
	Wisby	29.95	55	SSE	4	b	29.88	— .06	59	56	+ 1	S	4	0	#	b	#	64	48	—
	Karlstad ...	29.88	62	SSE	2	bc	29.88	— .02	59	56	— 1	E	4	0	#	bc.r	#	#	#	—
	Bodö	29.91	53	WSW	4	bc	29.95	+ .08	50	48	— 1	SW	1	c	1	bc	#	57	48	0.91
	Christiansund ...	30.01	54	NNW	2	c	30.03	+ .02	53	50	+ 1	NNE	2	c	3	c	#	54	50	0.04
	Skudesnaes ...	29.86	58	7	0	0	29.88	— .07	52	50	— 2	N	6	0	1	0	#	59	50	#
	Færder (Christiania Fjord)	29.87	59	SW	2	m	29.86	— .04	58	57	— 1	N	2	m	1	m	#	61	57	—
	Skagen (The Scaw)	29.88	58	NW	1	m	29.86	— .04	58	56	— 1	7	0	m	0	m	#	70	55	—
	Fanö	29.88	57	7	0	b	29.82	— .18	58	56	+ 2	E	2	bc	#	b	#	64	54	—
BRITISH ISLANDS.	Sumburgh Head	30.02	50	NE	4	0	30.14	+ .25	49	45	— 2	NNE	3	c	4	r.0	#	53	46	0.14
	Stornoway ...	30.12	51	NE	6	0	30.26	+ .40	50	49	— 4	NNE	2	c	2	0	0.4	54	45	0.05
	Wick	30.03	53	NE	5	0	30.22	+ .39	50	48	— 2	NE	6	0	4	0	#	56	49	0.09
	Nairn	30.00	53	NE	3	c	30.24	+ .46	50	47	— 8	N	3	0	2	c	#	60	45	0.55
	Aberdeen ...	29.89	54	N	3	ogqr	30.18	+ .40	50	46	— 10	NNW	3	ogq	3	orgq	2.3	64	48	0.10
	Leith	29.86	55	NNW	3	r	?30.15	+ .34	54	48	— 5	NE	1	0	#	r	#	72	50	0.15
	Shields	29.79	64	W	3.	c	30.08	+ .19	51	49	— 7	N	6	0	5	thrh,c	#	69	50	0.54
	Spurn Head ...	29.80	61	W	3	c	29.96	+ .04	53	53	— 7	N	6	r	5	c,thp	#	66	53	0.05
	York	29.81	64	WNW	3	b	30.05	+ .10	53	50	— 5	N	3	0	#	op,b	5.4	68	51	0.05
	Loughborough ...	29.88	60	W	4	b	30.04	+ .04	54	52	— 4	NNW	4	ogq	#	cp,tq,c	#	66	53	0.25
	Ardrossan ...	29.92	61	WNW	5	c	30.19	+ .35	60	55	+ 1	WNW	3	b	2	c	#	64	51	—
	Malin Head ...	30.07	54	NNW	7	cq	30.27	+ .33	52	50	— 4	NNW	5	c	3	bc,cq	#	57	50	—
	Belmullet ...	30.22	58	N	4	c	30.33	+ .21	55	50	— 2	N	3	0	#	bc,c	#	60	50	0.01
	Donaghadee ...	29.99	58	NW	7	bc	30.21	+ .27	55	53	— 2.	NW	7	bc	5	bc	#	65	52	—
	Liverpool (Bidston)	29.90	58	WNW	5	c	30.14	+ .19	56	51	— 4	N	4	bc	5	p,c	#	62	53	0.01
	Holyhead ...	29.94	58	NW	5	c	30.17	+ .19	58	54	— 3	N	4	b	3	bc,c	#	64	53	0.05
	Parsonstown ...	30.13	61	WNW	2	bc	30.28	+ .23	53	49	— 4	NW	2	0	#	bc	7.5	64	49	—
	Valencia ...	30.22	60	N	5	c	30.31	+ .22	57	52	— 4	NNE	2	bc	3	cq,c	6.3	63	51	—
	Roche's Point ..	30.13	65	N	4	b	30.26	+ .23	57	52	— 5	N	4	b	3	b	#	67	50	—
	Pembroke (St. Ann's Hd)	30.04	62	NE	4	b	30.18	+ .17	59	54	— 1	NNE	6	oq	4	b	6.0	64	55	—
	Scilly	30.05	64	NNW	4	c	30.16	+ .10	58	54	— 3	N	4	c	3	cmp,c	6.5	67	54	0.01
	Prawle Point .	29.99	63	NNW	3	c	30.11	+ .06	62	58	+ 1	NW	4	bc	2	rm,c	#	65	51	0.04
	Jersey (St. Aubin's)	30.00	64	W	3	ogm	30.09	+ .02	61	57	— 3	NW	4	cm	3	c,gm,dp	#	69	57	0.03
	Hurst Castle ...	29.93	62	W	3	cp	30.04	+ .02	58	56	— 4	NW	3	oq	2	ou,cp	#	70	53	0.07
	Dungeness ...	29.88	65	7	0	c	29.91	— .09	57	55	— 5	N	5	oq	4	c	#	67	50	0.17
	North Foreland	29.87	61	7	0	0	29.87	— .13	57	55	— 7	WNW	6	oq	4	0	#	68	54	0.60
	London (Brixton) ...	29.88	62	W	1	p	29.98	— .02	60	58	0	NNW	3	c	#	c,thr,bc	0.2	71	52	0.15
	Oxford	29.92	56	WNW	2	b	30.03	+ .03	56	52	— 5	NNW	3	oq	#	op,b	#	67	53	0.09
	Cambridge ...	29.87	59	NW	2	thr	29.96	— .03	51	55	— 4	N	3	d	#	thr	0.4	69	51	0.06
	Yarmouth ...	29.83	61	SSE	3	c	29.86	— .10	58	57	— 2	N	5	c	4	c,thr	#	64	53	0.99
GERMANY & HOLLAND.	Cuxhaven ...	29.81	59	NW	1	b	29.73	— .30	58	56	+ 3	ESE	2	c	#	b	#	63	54	—
	Berlin	29.93	60	SE	1	b	29.82	— .21	58	55	+ 1	SE	3	b	#	b	#	64	52	—
	Wiesbaden ...	#	#	#	#	#	29.77	— .26	62	61	+ 1	7	0	0	#	#	#	75	59	0.39
	Munich... ..	29.99	63	7	0	b	29.91	— .14	63	59	+ 1	W	3	c	#	b	#	73	55	—
	The Helder ...	29.83	58	7	0	r	29.74	— .26	58	58	— 1	NNE	1	r	1	r	#	66	57	1.65
BELGIUM.	Brussels ...	#	#	#	#	#	29.80	— .22	57	54	— 9	W	3	0	#	0	#	78	54	0.18
	Cape Gris Nez...	?	62	NW	1	m	?	?	57	55	— 4	NNW	5	r	5	m	#	66	57	0.24
	Paris	29.95	71	NW	3	bc	29.94	— .11	58	?	— 5	NW	3	bc	#	bc	#	78	55	?
	Brest	30.03	62	W	1	f	30.14	+ .02	59	55	— 1	NNE	3	b	1	f	#	70	54	—
	Lorient... ...	30.05	64	W	1	f	30.12	— .01	59	56	— 3	NW	3	bc	4	f	#	73	55	—
FRANCE &	Rochefort ...	30.09	68	NW	4	b	30.11	— .04	64	59	— 2	N	4	bc	#	b	#	73	63	—
	Belfort	29.90	68	ENE	1	m	29.84	— .15	61	59	— 2	W	7	r	#	m	#	79	57	—
	Lyons ...	29.97	75	E	2	bc	29.98	— .06	66	60	+ 2	NW	1	c	#	bc	#	80	61	—
	Nice	29.84	62	ENE	5	c	29.80	— .08	71	63	— 1	E	1	b	1	c	#	79	59	0.67
	Perpignan ...	29.98	80	NW	4	b	30.02	— .03	72	62	— 1	NW	3	b	#	b	#	84	68	—
	Biarritz ...	30.08	72	NW	3	bc	30.06	— .05	67	66	— 1	WSW	2	bc	2	bc	#	75	64	—
PENIN-SULA.	Corunna ...																#			
	Lisbon	30.01	75	NNW	4	b	29.99	— .06	72	63	— 3	SW	3	0	#	b	#	90	70	—
	Azores (P. Delgada)	30.15	69	W	2	b	30.12	— .04	70	66	— 2	7	0	c	2	b	#	77	66	0.04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 2.7 hrs;

WEATHER CHARTS

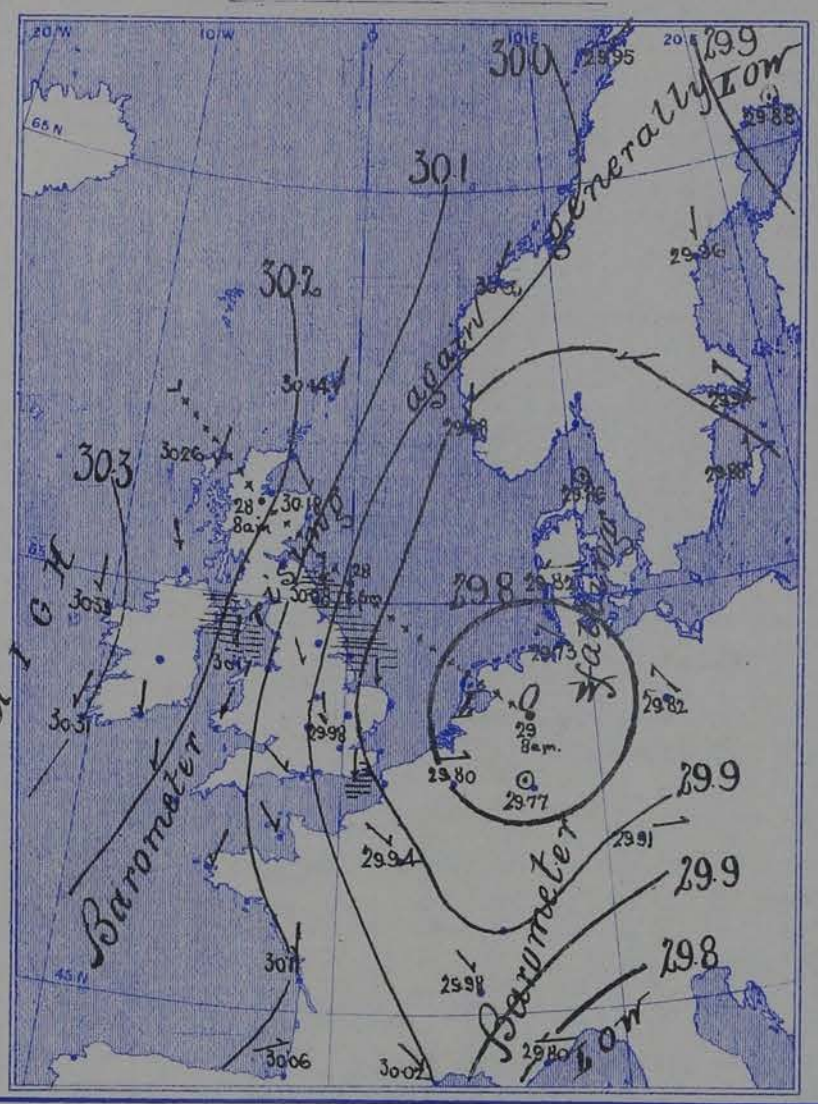
FOR Friday, 29th July, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙
Force 8 to 10 ⟩⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ▤ ; *High* ▩



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL— { *A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.*

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95: Means of Dry Bulb 8 a.m.	Means of Wet Bulb 8 a.m.	Means of Daily Maximum.	Means of Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 809	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·3 ins. and upwards in an anticyclone lying off the west of Ireland.
Lowest 29·8 ins. and less in a well marked depression lying over N.W. Germany & the Netherlands.
Gradients slight generally, but moderate over the W.rn and N.rn parts of the North Sea.
Barometer falling in Denmark, Germany and the central and S.rn parts of France; rising elsewhere, – briskly on our E. coasts, but very slightly in the W.

TEMPERATURE

Highest 72° at Perpignan, 71° at Nice, 67° at Biarritz, and 66° at Lyons; highest in our Islands 60° in London and at Ardrossan.
Lowest 49° at Sumburgh Hd, 50° at Bodö, Stornoway, Wick, Nairn & Aberdeen & 51° at Shields.
During yesterday the thermometer rose to between 65° and 70° in most parts of England, to 71° in London and to 72° at Leith. On our extreme N. and NW. coasts it did not reach 60°.

WIND

N.ly or NW.ly over the whole of our Islands and France as well as in the south of Norway, and strong in force on several of the more exposed parts of our coasts.
Light from the W.rd over Belgium and S. Germany and from the E.rd or SE.rn in Denmark and N. Germany.

WEATHER

Dull over the E.rn and central parts of Gt. Britain and also over the Netherlands, the E. of France and S. of Scandinavia, with rain at Cape Gris Nez, Belfort & Stockholm.
Fair or fine in nearly all other parts of W.rn Europe.
Rain fell yesterday over nearly the whole of Gt. Britain and the neighbouring parts of the Continent, the largest amounts being 1·0 in. at Yarmouth, and 2·6 in. at Nairn, the N. Forelands and Cambridge. Thunderstorms occurred in many parts of England.

SEA

Rather rough on our NE. and NW. coasts, as well as at Cape Gris Nez, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday morning over Scotland has travelled SE.rd, and now lies over the Netherlands and NW.rn Germany. An anticyclone is spreading over our W.rn coasts, and a temporary improvement in the weather is likely to take place over Gt. Britain.

FORECASTS

For the 24 hours ending at NOON on 30TH JULY 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	N.ly winds, backing later; fair generally.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No. 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	N.ly and NW.ly winds, moderate or fresh, cloudy and showery at first, then fair.
6	SCOTLAND WEST	N.ly winds, fresh or strong at first but moderating later; fair generally.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes	29.91	59	54	N	2	o	1
Sumburgh Head	29.91	52	52	NE	3	r	4
Stornoway	30.03	53	50	NE	6	o	6
Aberdeen	29.81	57	56	NW	1	ogr	1
Shields	29.90	66	60	W	3	c	2
Ardrossan	29.84	60	57	WNW	6	c	3
Malin Head	29.99	56	55	NNW	7	bc	6
Belmullet	30.13	60	59	N	3	bc	*
Holyhead	29.99	62	58	NW	2	bc	1
Valencia	30.19	62	54	N	6	cq	5
Scilly	29.98	65	63	WNW	3	cmp	2
Jersey	30.05	67	62	WNW	4	c	3
Hurst Castle	29.94	65	63	W	3	ow	2
Dungeness	29.94	64	62	SW	4	c	3
North Foreland	29.94	62	60	W	1	o	1
London (Westminster)	29.94	67	61	2	0	op	*
Yarmouth	29.90	64	61	ENE	2	c	3
Rochefort	30.15	72	68	NNW	4	b	*

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

Weather in morning cloudy or dull over our Islands generally, with rain at some of the Scotch stations, and passing showers on several parts of our W^rn and SW^rn coasts. Fine over the greater part of the Continent, but dull over N^rn Russia, the S. of Sweden and N. Germany, with rain in several places. Rain falling later over Gt. Britain generally and the neighbouring parts of the Continent,— heavily at several of our N^rn and E^rn stations. Thunderstorms occurring at many of the English stations.

Temperature fallen in our Islands, risen in Austria and the S. of Russia, changed irregularly elsewhere. Morning readings highest 86° at Sfax, 85° at Algiers, 83° at Sanguinaire, and 82° at Armagh; above 70° over N^rn Europe generally. Lowest 51° at Archangel, Bodö and Sumburgh Hd.; 52° at Christiansund and Wick, and 54° at Stornoway, Skudenaes and Copenhagen. Rising during day to between 65° and 70° in most parts of England, and reaching 72° at Leith; exceeding 75° over Belgium and the central and southern parts of France, and touching 84° at Perpignan. Reaching 90° at Lisbon.

Wind light from the NW^wd over England and the E. of Scotland, but NE^ly in the N. of Scotland; moderate to strong from the N^wd or NW^wd in Ireland. Light from the NW^wd in the west and south of France; variable over Italy and the Spanish peninsula. NW^ly over Austria, Russia and the N. of Scandinavia; variable in the S. of Scandinavia. Subsequently veering to the W. or NW. over England, and shifting to the N^wd in the east of Scotland.

Barometer highest 30.1 ins. and upwards in an anticyclone extending from the Atlantic over the Bay of Biscay the W. of France and the extreme W. of Ireland, and also in another system over the S. of Russia. Lowest 29.7 ins. and less in a shallow area over N^rn Russia; and also in a well marked depression over Scotland; 29.9 ins. and less in a small system over the Gulf of Genoa. Scotch depression moving SE^wd^s later, and barometer rising briskly on our N^rn 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France: at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 8 a.m. on Saturday 30th July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.93	53	Z	0	b	29.98	+ .10	61	56	+ 3	S	2	c	*	b	*	66	45	—
	Hernösand	29.96	58	Z	0	c	29.93	— .03	55	54	— 3	SSE	4	r	*	c	*	66	45	.008
	Stockholm ...	29.92	59	ENE	2	c	29.85	— .09	64	61	— 5	SE	2	c	*	c	*	64	54	—
	Wisby	29.86	61	ENE	4	b	29.80	— .08	61	60	+ 2	NNE	4	c	*	b	*	64	54	—
	Karlstad ...	29.88	62	SE	2	c	29.85	— .03	61	56	+ 2	NE	2	c	*	c	*	*	*	—
	Bodö	29.98	50	S	2	bc	30.00	+ .05	53	49	+ 3	S	2	bc	1	bc	*	55	45	.008
	Christiansund ...	30.05	53	NNE	2	c	30.10	+ .07	51	48	— 2	NE	1	c	3	c	*	54	48	.059
	Skudesnaes ...	29.97	51	NNW	8	c	29.98	+ .10	50	46	— 2	N	8	b	3	c, c	*	54	46	*
	Færder (Christiania Fjord)	29.85	60	W	?	m	29.86	.00	53	52	— 5	NNE	6	r	3	m	*	64	52	—
	Skagen (The Scaw)	2986	56	NNE	1	m	29.84	— .02	59	58	+ 1	NNW	1	m	0	m	*	64	54	—
	Fanö	29.85	59	N	4	c	29.90	+ .08	53	50	— 5	NW	4	c	*	c	*	72	54	—
	Sumburgh Head	30.16	51	WNW	2	c	30.14	.00	52	50	+ 3	N	2	b	3	c, c	*	55	43	—
	Stornoway ...	30.26	52	NW	4	c	30.19	— .07	53	51	+ 3	SW	3	c	3	p, c, c	3.0	57	45	.004
	Wick	30.25	52	NW	3	c	30.21	— .01	53	50	+ 3	NW	3	c	1	c	*	58	46	—
	Nairn	30.25	56	NNW	2	c	30.23	— .01	54	51	+ 4	W	1	c	1	c	*	57	47	—
	Aberdeen ...	30.22	56	NW	2	bc	30.23	+ .05	52	50	+ 4	NW	1	c	1	cq, bc, r	4.8	57	49	.003
British Islands	Leith	30.23	58	E	3	c	30.24	+ .09	60	53	+ 6	S	1	c	*	c	*	62	43	—
	Shields	30.23	52	N	4	c	30.25	+ .17	48	47	— 3	W	2	c	3	p, c	*	54	42	—
	Spurn Head ...	30.14	52	N	7	c	30.20	+ .24	54	51	+ 1	N	4	c	5	cpq, c	*	56	50	.004
	York	30.20	53	N	4	c	30.26	+ .21	52	48	— 1	NW	1	c	*	c	0.2	56	40	—
	Loughborough ...	30.20	55	NNW	3	c	30.27	+ .23	55	50	+ 1	WNW	2	bc	*	cq, c, b	*	56	40	—
	Ardrossan ...	30.22	62	W	3	b	30.24	+ .05	57	55	— 3	ENE	2	cm	2	b	*	65	47	—
	Malin Head ...	30.28	54	NNW	5	bc	30.25	— .02	55	54	+ 3	SSW	1	b	1	c, bc	*	55	52	—
	Belmullet ...	30.34	58	ENE	1	b	30.26	— .07	58	55	+ 3	ENE	1	c	*	c, b	*	60	45	—
	Donaghadee ...	30.26	60	NNW	6	b	30.27	+ .06	57	54	+ 2	WNW	4	b	2	b	*	64	43	—
	Liverpool (Bidston)	30.23	59	N	3	b	30.27	+ .13	59	51	+ 3	SSW	1	c	1	b	*	62	50	—
	Holyhead ...	30.25	56	N	2	b	30.28	+ .11	56	53	— 2	W	1	bc	0	bcp, b	*	59	53	—
	Parsonstown ...	30.27	65	Z	0	bc	30.30	+ .02	58	54	+ 5	Z	0	b	*	bc	8.6	65	46	—
	Valencia ...	30.28	62	N	3	b	30.29	— .02	57	55	+ 2	Z	0	bm	2	b	13.7	63	43	—
	Roche's Point ..	30.29	63	SSW	2	b	30.31	+ .05	58	54	+ 1	N	1	b	1	b	*	66	50	—
	Pembroke (St. Ann's Hd.)	30.24	60	NE	4	b	30.28	+ .10	56	53	— 1	E	3	bm	3	b	10.2	62	54	—
	Scilly	30.23	61	N	3	c	30.24	+ .08	62	59	+ 4	E	3	bcm	2	c	6.2	63	56	—
	Prawle Point ...	30.17	64	N	3	c	30.29	+ .18	60	53	— 2	ENE	4	bc	2	c	*	68	49	—
	Jersey (St. Aubin's)	30.16	65	NW	4	bm	30.26	+ .17	61	54	0	NE	3	bcm	3	bc, bm	*	67	54	—
	Hurst Castle ...	30.16	62	NE	3	bcm	30.26	+ .22	56	52	— 2	NNE	2	bm	2	cm, bcm	*	64	44	—
	Dungeness ...	30.08	56	N	5	cq	30.19	+ .28	55	50	— 2	N	4	c	3	cq	*	63	50	—
	North Foreland	30.08	56	NW	6	c	30.19	+ .32	55	49	— 2	NW	4	cq	4	c	*	62	52	—
	London (Brixton) ...	30.15	56	NNE	4	c	30.25	+ .27	54	48	— 6	NNE	2	c	*	cq, bc, c	0.5	60	50	—
	Oxford	30.22	54	N	2	c	30.27	+ .24	53	49	— 1	N	3	b	*	cq, c	*	58	43	—
	Cambridge ...	30.16	54	N	3	c	30.24	+ .28	55	50	— 2	N	3	c	*	c	0.1	58	48	0.01
	Yarmouth ...	30.04	55	NNW	6	cq	30.16	+ .30	55	50	— 3	NNW	5	c	5	cp, cq	*	59	51	0.02
Germany & Holland	Cuxhaven ...	29.79	63	E	1	c	29.84	+ .11	58	56	0	N	5	c	*	c	*	66	57	—
	Berlin	29.73	62	Z	0	r	29.74	— .08	60	59	+ 2	W	1	r	*	r	*	75	52	0.59
	Wiesbaden ...	*	*	*	*	*	29.82	+ .05	56	54	— 6	SW	1	r	*	*	*	66	54	0.95
	Munich... ..	29.98	54	W	5	c	29.95	+ .04	54	52	— 9	W	5	c	*	c	*	70	50	0.24
	The Helder ...	29.86	57	N	4	r	30.00	+ .26	57	52	— 1	N	5	bc	3	r	*	61	55	0.28
Belgium	Brussels ...	*	*	*	*	*	30.08	+ .28	53	49	— 4	NNW	5	c	*	r	*	67	50	0.24
	Cape Gris Nez...	?	57	N	6	c	?	?	55	54	— 2	N	6	c	6	c	*	63	54	0.35
	Paris	30.06	62	NW	4	c	30.17	+ .23	55	51	— 3	NW	3	bc	*	c	*	66	54	—
	Brest	30.18	66	N	3	c	30.23	+ .09	54	52	— 5	E	2	b	1	c	*	66	50	—
	Lorient... ...	30.14	66	NNE	4	bc	30.21	+ .09	55	53	— 4	ENE	3	b	2	bc	*	73	52	—
France	Rochefort ...	30.14	73	N	4	bc	30.19	+ .08	59	57	— 5	ENE	4	b	*	b, bc	*	77	55	—
	Belfort	29.95	59	W	4	c	30.02	+ .18	52	51	— 9	WSW	6	r	*	c	*	69	52	0.12
	Lyons ...	30.04	66	NNW	2	b	30.09	+ .11	59	54	— 7	NNE	2	c	*	b, b	*	76	54	—
	Nice	29.69	75	Z	0	b	29.80	.00	69	65	— 2	E	1	b	1	b	*	82	61	—
	Perpignan ...	29.96	80	NW	4	b	30.04	+ .02	71	59	— 1	NW	2	b	*	b	*	84	64	—
	Biarritz ...	30.06	68	N	4	b	30.04	— .02	66	61	— 1	E	2	b	2	b	*	75	59	—
Peninsula	Corunna ...																*			
	Lisbon	29.95	73	W	2	c	29.98	— .01	67	60	— 5	WSW	4	c	*	c	*	88	63	—
	Azores (P. Delgada)	30.13	70	NW	3	bc	30.11	+ .02	72	68	+ 2	Z	0	bc	2	bc	*	79	66	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 11·9 hrs;

WEATHER CHARTS

FOR Saturday, 30th July, 1898

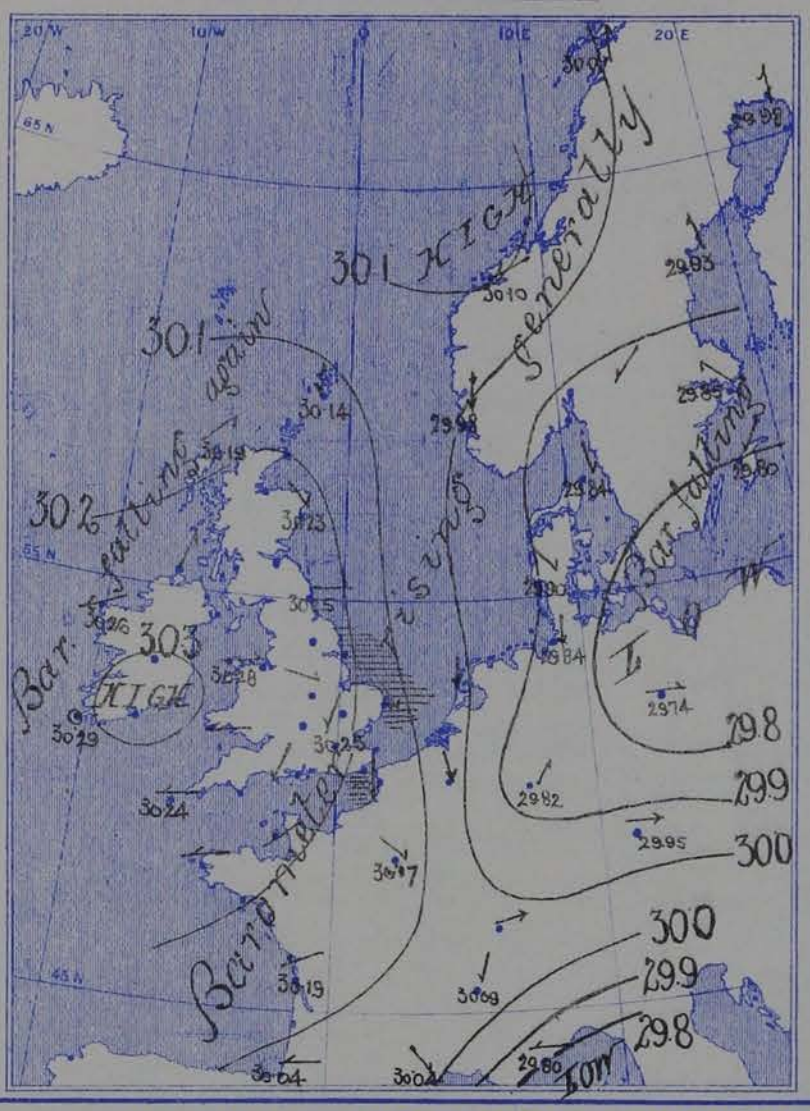
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ⟫⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

SEA—Rough ▤ ; *High* ▩

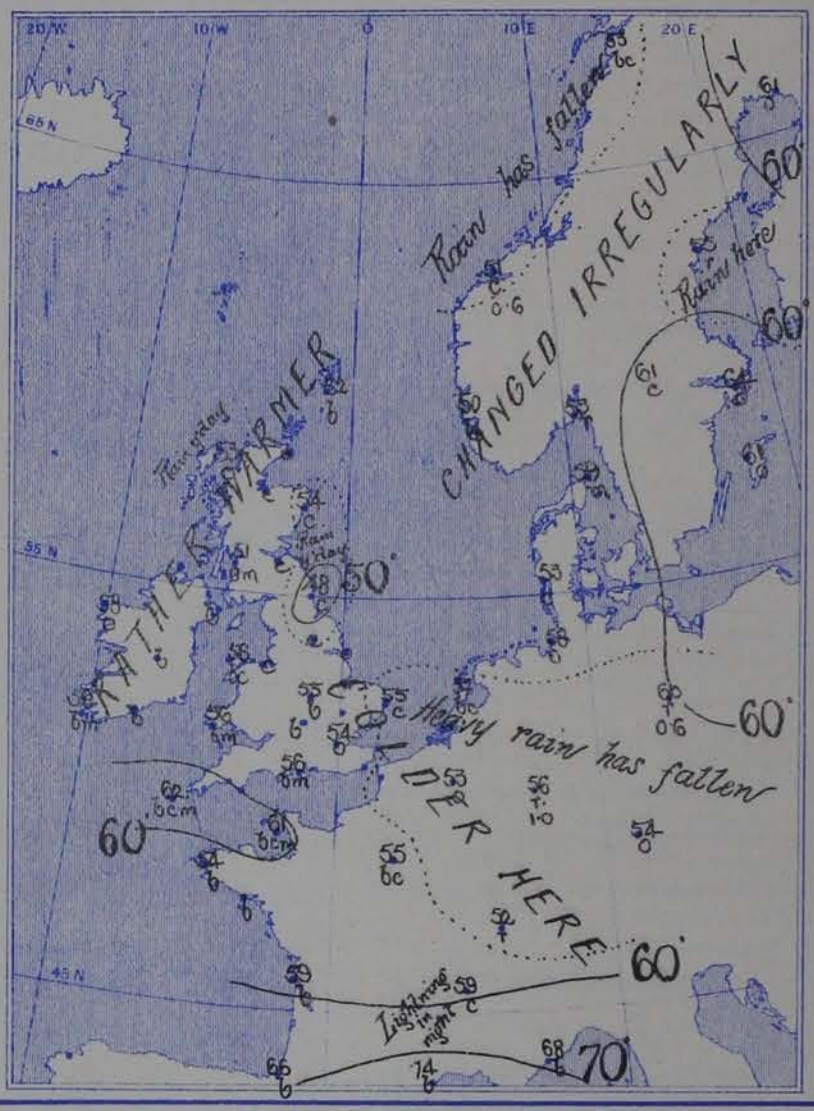


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Means of Wet Bulb 8 a.m.	Means of Daily Maximum.	Means of Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 809	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·3 ins. and upwards in the S. of Ireland; 30·1 ins. and upwards in an anticyclone covering the whole of our Islands and the N. and W. of France.
Lowest 29·8 ins. and less in a depression over N. Germany and the Baltic and also in a small system over the Gulf of Genoa.
Gradients slight generally, but moderate over the S^rn. parts of the North Sea.
Barometer falling a little on our extreme N. and NW. coasts, and also in Sweden, but rising elsewhere.

TEMPERATURE

Highest (1) 71° at Perpignan, 69° at Nice, and 67° at Lisbon. (2) 64° at Stockholm and 61° at Wisby; (3) 62° at Scilly, 61° at Jersey, and 60° at Leith.
Lowest 48° at Shields, 50° at Skudesnaes, 51° at Christiansund, and 52° at Sumburgh Hd. York to Belfort
The maxima registered yesterday were below 60° at most of our N^rn. and E^rn. stations, and below 68° on all but our SW. coasts. At Shields the thermometer did not exceed 54°.

WIND

Moderate to strong from the N^wd. over the North Sea and the adjacent parts of England and the Continent, with a gale at Skudesnaes; W^ly. in Germany; S^ly. or SE^ly. over the N^rn. parts of Scandinavia.
Light from the SW^wd. on our own extreme northwest coasts.
NE^ly. or E^ly. over the southwest of our Islands and the north and west of France.

WEATHER

Fair or fine over the greater part of our Islands and France, as well as in the W. of Norway, but dull in the SE. of England.
Cloudy or dull over Sweden, Denmark and Germany, with rain at Hernissand, Berlin and Munich, as well as at Belfort.
Slight showers fell yesterday in several parts of Gt. Britain, and larger quantities of rain in the Netherlands, Germany and the W. of Norway, as much as 1·0 in. at Wiesbaden.

SEA

Lightning was seen at Lyons in the evening.
Rough at Cape Gris Nez, and rather rough off the E. of England, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are some indications of the advance of further depressions towards our N. or NW. coasts, so that unsettled weather is probable in the N. Over the S^rn. parts of the Kingdom the weather is likely to remain fair for the present, with an increase in temperature.

FORECASTS

For the 24 hours ending at NOON on 31^ST. JULY 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W^ly. and SW^ly. winds moderate or fresh; cloudy, some rain.	6 SCOTLAND WEST	Same as No. 0.
1 SCOTLAND EAST	W^ly. winds, light; fair at first, showery later.	7 ENGLAND N.W.	Same as Nos. 1 and 2.
2 ENGLAND N.E.		8 ENGLAND S.W.	NE^ly. to N^ly. winds, light; fair generally.
3 ENGLAND EAST	N^ly. to W^ly. winds, light; fair generally, warmer.	9 IRELAND NORTH	Same as No. 0.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Variable breezes, finally W^ly.; fair generally.
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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes	29·93	54	49	N	5	o	2
Sumburgh Head	30·18	62	48	WNW	3	c	4
Stornoway	30·27	56	53	NW	4	c	4
Aberdeen	30·23	53	47	NNW	3	oq	3
Shields	30·19	52	49	N	5	o	5
Ardrossan	30·22	65	59	W	3	b	2
Malin Head	30·30	54	53	NNW	5	c	3
Belmullet	30·35	58	52	NE	1	o	*
Holyhead	30·24	59	55	? NNW	3	bcp	2
Valencia	30·30	62	55	N	3	b	3
Scilly	30·21	61	57	N	3	c	2
Jersey	30·15	66	59	WNW	5	bc	4
Hurst Castle	30·13	? 64	60	N	4	ow	3
Dungeness	30·01	60	56	N	5	o	4
North Foreland	30·01	58	55	NW	6	o	4
London (Westminster)	30·09	57	54	N	6	cq	*
Yarmouth	29·99	55	54	NNW	5	op	5
Rochefort	30·15	72	66	N	4	b	*

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

Weather in morning dull over the E.rn and central parts of Gt. Britain, & also over the Netherlands, the E. of France and S. of Scandinavia, with rain at Cape Gris Nez, the Helder, Belfort and Stockholm. Fine in nearly all other parts of Europe, but dull in Austria and also over N.rn Russia. Slight showers falling during day in many parts of Gt. Britain, and heavy rain in Germany and the W. of Norway; lightning seen at Lyons in evening.

Temperature fallen over W.rn Europe generally, but risen in most other regions. Morning readings highest 87° at Brindisi, 84° at Spezia, and 83° at Patras; above 75° at many of the Mediterranean and Adriatic stations, as well as at Hermanstadt and Constantinople. Lowest 49° at Sumburgh Hd., and 50° at Bodo, Stornoway, Wick, Nairn and Aberdeen; below 55° over the N.rn parts of Gt. Britain generally. Daily maxima below 60° at most of our own N.rn and E.rn stations, and below 65° on all but our SW coasts. Thermometer exceeding 80° in the S. of France, and reaching 88° at Lisbon.

Wind N.ly or NW.ly over western Europe generally, and strong in force on the several of the more exposed parts of our W. coasts. W.ly over South Germany, but light from the E.ward over Denmark, N. Germany and the Baltic. W.ly or NW.ly over northern Russia; variable over the N. of Scandinavia, as well as in Italy. S.ly & W.ly over the Spanish peninsula. Subsequently backing to the W.ward on some parts of our northern coasts.

Barometer highest 30·3ins. and upwards in an anticyclone lying off the W. of Ireland, 30·0ins. and upwards in another system over the S. of Russia. Lowest 29·8ins. and less is a well marked depression over the Netherlands and NW.rn Germany, and also in shallow areas lying respectively over N.rn Russia, Austria and the Gulf of Genoa. Anticyclone in W. subsequently spreading E.ward, and German depression moving away in a similar direction.

NOTE. Owing to the operation of the Factory Act the report for Monday next will not be issued until Wednesday the 3RD August.

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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France: at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 "

SCANDINAVIA. BRITISH ISLANDS. GERMANY & HOLLAND. FRANCE & BELGIUM. PENINSULA.

DAILY WEATHER REPORT

for 8 a.m. on Sunday 31st July, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.96	56	Z	0	c	29.92	—·06	57	52	— 4	N	4	c	*	c	*	66	41	—
	Hernösand ...	29.93	54	S	2	o	29.85	—·08	58	54	+ 3	NE	4	o	*	o	*	61	52	0·08
	Stockholm ...	29.76	59	E	2	r	29.57	—·28	59	58	— 5	NNE	4	r	*	r	*	68	55	0·55
	Wisby	29.75	59	E	4	c	29.68	—·22	59	58	— 2	NE	6	o	*	c	*	66	54	—
	Karlstad ...	29.81	53	NW	4	o	29.73	—·12	52	51	— 9	N	6	r	*	o	*	*	*	0·63
	Bodö	30.01	55	WSW	4	c	30.01	+ ·01	53	49	0	E	2	bc	1	c	*	55	46	0·08
	Christiansund ...	30.08	53	NE	2	b	29.97	—·13	51	48	0	ENE	1	b	1	b	*	55	46	—
	Skudesnaes ...	30.02	51	NNW	4	b	30.01	+ ·03	54	50	+ 4	N	4	b	2	b	*	55	45	*
	Færder (Christiania Fjord)	29.89	55	N	5	bc	29.85	— ·01	55	50	+ 2	N	6	o	3	bc	*	55	50	0·47
	Skagen (The Scaw)	29.86	54	N	4	o	29.85	+ ·01	55	51	— 4	N	4	c	1	o	*	63	54	0·04
	Fanö	29.96	53	N	6	c	30.01	+ ·11	55	51	+ 2	NW	6	c	*	c	*	57	52	—
	Sumburgh Head	30.08	52	WSW	1	o	29.84	—·30	54	54	+ 2	W	4	f	4	o	*	55	48	0·08
	Stornoway ...	30.04	53	WSW	5	r	29.95	—·24	55	53	+ 3	NW	4	c	4	c,r	3·4	58	50	0·25
	Wick	30.09	58	SE	2	o	29.95	—·26	60	56	+ 7	N	5	bc	2	o	*	62	52	—
	Nairn	30.08	64	E	1	c	29.97	—·26	61	58	+ 7	W	1	c	1	c	*	66	51	0·02
	Aberdeen ...	30.13	54	SSE	1	c	29.97	—·26	60	56	+ 6	SSW	1	om	1	c	3·2	61	51	0·02
British Islands	Leith	30.13	65	W	2	o	29.96	—·28	59	56	— 1	SW	2	om	*	o	*	70	55	—
	Shields	30.18	56	SSE	3	bc	30.08	—·17	59	57	+ 11	WSW	3	p	2	bc	*	61	47	0·01
	Spurn Head ...	30.21	56	ENE	2	b	30.14	—·06	61	58	+ 7	W	4	b	4	o,b	*	61	51	—
	York	30.20	66	SW	1	c	30.16	—·10	58	56	+ 6	W	2	b	*	c	9·6	69	45	—
	Loughborough ...	30.23	65	Z	0	c	30.22	—·05	58	54	+ 3	W	2	bcw	*	bc,b,bm	*	68	41	—
	Ardrossan ...	30.07	58	S	3	cw	30.08	—·16	56	56	— 1	SSW	3	om	3	bcm,om	*	62	55	0·05
	Malin Head ...	30.14	61	WNW	5	b	30.07	—·18	59	59	+ 4	WSW	4	omp	2	b	*	61	55	0·03
	Belmullet ...	30.20	60	WSW	2	bc	30.16	—·10	60	59	+ 2	W	2	o	*	b,bc	*	63	55	0·04
	Donaghadee ...	30.19	64	WSW	3	bc	30.15	—·12	57	56	0	W	4	c	2	bc	*	67	48	—
	Liverpool (Bidston)	30.23	60	W	2	b	30.20	—·07	59	55	0	WSW	3	bc	3	b	*	63	52	—
	Holyhead ...	30.25	59	SW	2	b	30.21	—·07	60	57	+ 4	SW	2	c	1	b	*	65	53	—
	Parsonstown ...	30.22	68	Z	0	bc	30.21	—·09	58	55	0	Z	0	c	*	bc	12·7	71	48	—
	Valencia ...	30.26	63	SW	2	b	30.26	—·03	61	57	+ 2	SW	1	o	2	bc,b	12·7	65	54	—
	Roche's Point ..	30.30	64	SSW	3	b	30.28	—·03	60	58	+ 2	NW	1	b	1	b	*	66	50	—
	Pembroke (St. Ann's Hd.)	30.27	62	SW	3	b	30.25	—·03	60	56	+ 4	NW	2	b	1	b	13·8	63	50	—
	Seilly	30.26	62	ESE	2	bc	30.25	+ ·01	65	59	+ 3	ESE	1	b	0	c,bc	13·2	67	56	—
	Prawle Point ...	30.27	57	S	2	b	30.28	—·01	63	53	+ 3	SSW	1	b	1	b	*	64	50	—
	Jersey (St. Aubin's)	30.25	62	ENE	4	b	30.27	+ ·01	63	55	+ 2	E	3	bm	3	bc,b	*	64	49	—
	Hurst Castle ...	30.25	63	SW	2	bm	30.26	·00	60	57	+ 4	W	2	bm	1	bm	*	67	51	—
	Dungeness ...	30.24	60	NNW	3	c	30.23	+ ·04	60	56	+ 5	WSW	2	b	1	c	*	61	43	—
	North Foreland	30.24	58	NNW	4	c	30.24	+ ·05	59	54	+ 4	W	3	b	2	o,c	*	60	48	—
	London (Brixton) ...	30.24	61	N	1	b	30.24	— ·01	59	50	+ 5	NW	1	bw	*	o,c,bw	2·7	64	45	—
	Oxford	30.25	59	SE	1	b	30.25	— ·02	58	53	+ 3	SW	1	b	*	b	*	67	47	—
	Cambridge ...	30.25	62	N	1	b	30.22	— ·02	58	54	+ 3	SW	1	b	*	b	4·9	63	44	—
	Yarmouth ...	30.22	58	NNW	4	bc	30.18	+ ·02	60	55	+ ·05	WNW	3	b	3	c,bc	*	60	46	—
Germany & Holland	Cuxhaven ...	29.99	56	NNW	6	c	30.06	+ ·22	55	55	— 3	NW	5	c	*	c	*	59	54	—
	Berlin	29.84	62	NW	2	bc	29.99	+ ·25	54	51	— 6	WNW	5	o	*	bc	*	66	50	0·32
	Wiesbaden ...	*	*	*	*	*	30.23	+ ·41	55	50	— 1	NW	2	o	*	*	*	59	48	0·24
	Munich	30.06	49	W	6	r	30.22	+ ·27	?	49	?	W	?	?	*	r	*	61	48	0·98
	The Helder ...	30.14	57	N	3	bc	30.16	+ ·16	59	55	+ 2	WNW	1	bc	1	bc	*	59	55	—
Belgium.	Brussels ...	*	*	*	*	*	30.26	+ ·18	57	51	+ 4	NNW	2	c	*	o	*	61	46	—
	Cape Gris Nez	?	58	NE	4	o	?	?	58	53	+ 3	WNW	2	bc	2	o	*	61	52	—
	Paris	30.21	60	NNE	2	b	30.26	+ ·09	51	50	— 4	NE	2	bc	*	b	*	64	45	—
	Brest	30.15	64	NE	3	b	30.22	— ·01	55	51	+ 1	E	1	b	1	b	*	72	45	—
	Lorient	30.17	69	SW	1	b	30.21	·00	53	50	— 2	E	4	b	2	b	*	79	50	—
France &	Rochefort ...	30.14	72	E	4	b	30.17	—·02	55	53	— 4	ENE	5	bc	*	b	*	86	54	—
	Belfort ...	30.15	51	W	5	o	30.19	+ ·17	52	50	0	ENE	6	m	*	o	*	59	50	—
	Lyons	30.12	62	N	3	b	30.15	+ ·06	55	50	— 4	N	2	b	*	b	*	69	50	—
	Nice	29.81	72	SSE	2	b	29.96	+ ·16	69	60	0	E	2	b	1	b	*	81	63	—
	Perpignan ...	29.97	80	N	3	b	30.03	— ·01	66	60	— 5	Z	0	b	*	b	*	86	58	—
	Biarritz ...	29.94	61	ENE	4	b	29.91	—·13	?	?56	?	E	3	c	2	b	*	81	59	—
Peninsula.	Corunna ...																*			
	Lisbon	30.02	67	W	4	o	30.05	+ ·07	66	64	— 1	WSW	4	o	*	o	*	72	64	—
	Azores (P. Delgada)	30.19	71	NNW	2	b	30.20	+ ·06	72	69	0	NNW	1	b	1	b	*	77	66	0·08

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 11.8 hrs;

WEATHER CHARTS

FOR Sunday, 31st July, 1898

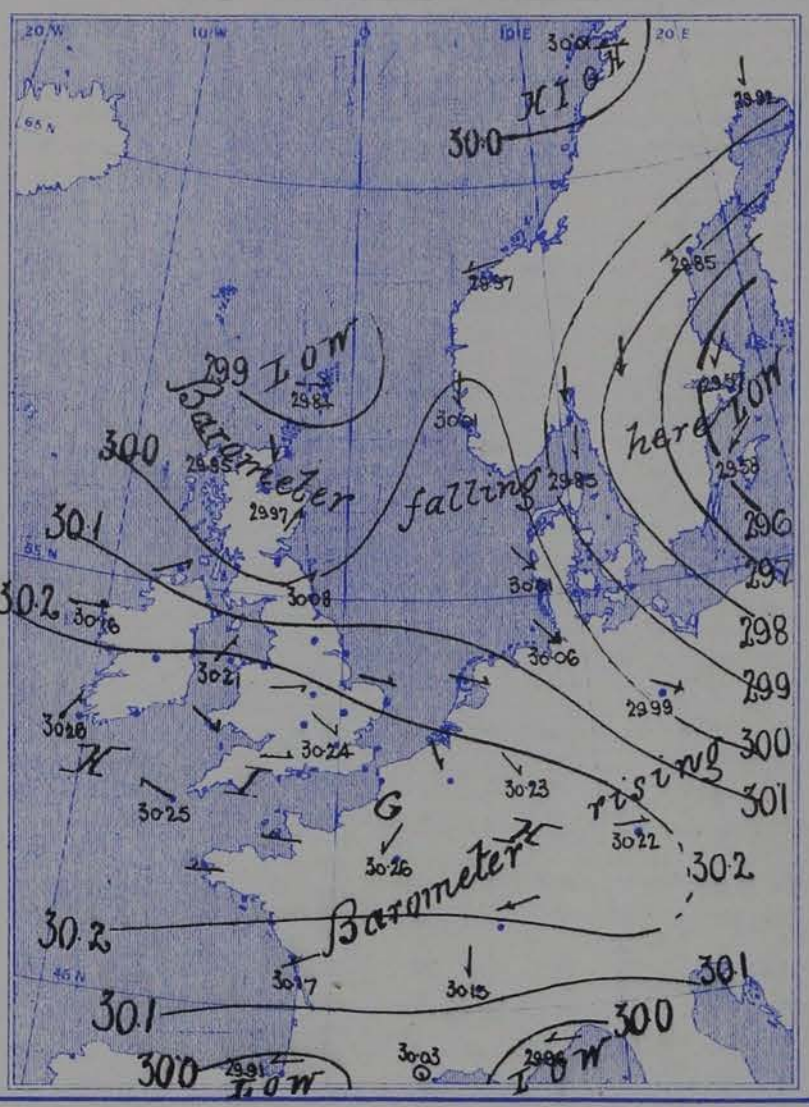
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ↗⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

SEA—*Rough* ; *High*

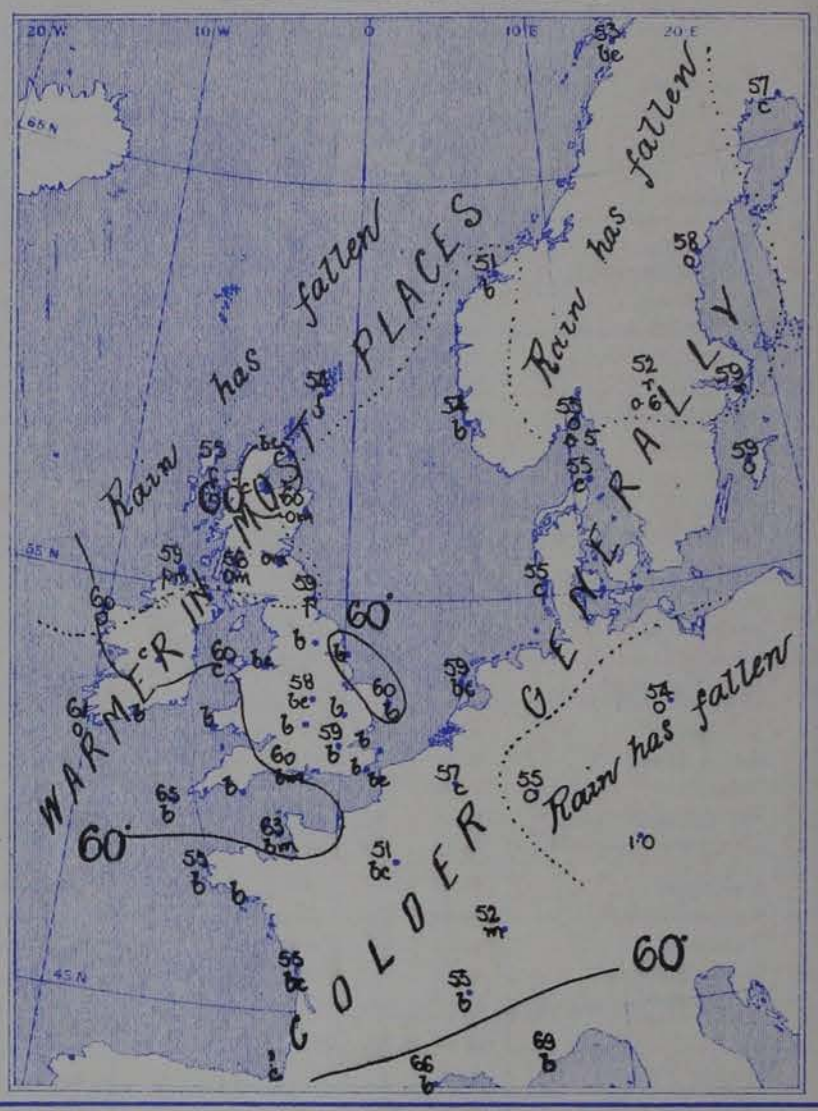


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Means of Wet Bulb 8 a.m.	Means of Daily Maximum.	Means of Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 · 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 · 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	20 · 977	59 · 5	57 · 2	64 · 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 · 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 ins: and upwards, in an entirely closed area lying over all the more southern parts of Ireland and England and also over the Netherlands and the northern part of France.
Lowest, 29·6 ins: and less, in a depression over the northern parts of the Baltic; 29·9 ins: and less, in a shallow system lying to the northward of the Shetlands.
Gradients slight. Barometer falling in all but the extreme southern parts of the United Kingdom and also in Scandinavia and Denmark but rising elsewhere.

TEMPERATURE

Highest, (1) 69° at Nice, and 66° at Perpignan and Lisbon; (2) 65° at Scilly, and 63° at Hawke Pt. and Jersey; (3) 61° at Nairn.
Lowest, 51° at Christiansund, 52° at Kristad, 53° at Bodö, and 54° at Rhudesness, Isumburgh Hd. and Berlin.
During yesterday the thermometer rose to 65° and upwards in many parts of the United Kingdom, to 70° at Leith, and to 71° at Roscommon. At Yarmouth and North Foreland, however, it did not exceed 60°.

WIND

Light to moderate from the W. or SW. over the more northern parts of our Islands generally, but NW. or N. in Caithness and the Hebrides.
NE. over the northern parts of Scandinavia, moderate to strong from the N. in the south of Scandinavia, and from the NW. in Denmark and Germany.
E. or NE. over France and the Channel Islands, and strong in force at Belfort.

WEATHER

Fair over Western Europe as a whole, but dull and misty in the west and north of Ireland and the south and east of Scotland, with passing showers at Malin Head.
Dull also in Germany and Sweden, with rain at Munich, Stockholm and Varder.
Slight showers fell yesterday in the northern parts of our Islands, and heavy rain in several parts of Sweden and Germany,—as much as 10 ins: at Munich.

SEA

Moderate off the north of Scotland, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 1ST AUGUST. 1898

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	NONE ISSUED.
5 ENGLAND SOUTH		WARNINGS	

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. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·99	55	49	N	8	b	3
Sumburgh Head	30·13	54	49	NW	2	o	3
Stornoway	30·11	58	53	SW	4	c	4
Aberdeen	30·18	57	50	SE	1	c	1
Shields	30·24	56	52	NE	3	bc	3
Ardrossan	30·21	59	56	SSW	3	bcm	2
Malin Head ...	30·24	? 61	59	WNW	3	b	1
Belmullet	30·23	61	55	WSW	2	b	
Holyhead ..	30·28	63	58	SW	2	b	1 *
Valencia	30·28	65	58	S	2	bc	3
Scilly ...	30·26	65	59	E	3	c	0
Jersey	30·27	64	59	NE	4	bc	3
Hurst Castle ...	30·26	67	58	E	1	bm	1
Dungeness	30·24	60	59	NNE.	4	c	3
North Foreland	30·24	58	52	NW	4	o	3
London (Westminster)	30·26	61	52	NNE	3	c	
Yarmouth ..	30·21	59	54	N	4	c	5 *
Rochefort ...	30·19	82	81	E	4	b	*

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

Weather in morning fine over France and the United Kingdom, though dull at many of our northern stations; very unsettled over Germany, the Baltic, and Sweden, with rain at several stations. Much rain later in the latter regions, some showers in the north and northwest of our Islands, but dry over England, France, and the Mediterranean.

Temperature low for time of year over northwestern and central Europe. Morning readings highest 86° at Brindisi, 80° at Rome, and above 70° at most stations on the shores of the Mediterranean, the Adriatic, and the coasts of southeastern Europe. Above 60° over some parts of Germany, Russia, and in Finland, as well as at a few of our own southwestern stations. Lowest 50° to 53° in the west of Norway, 52° at Sumburgh Head, at York, and at Belfast, 53° at Hull and at Brussels, 54° in London, 55° at Paris, Rising later to 70° at Leith, 71° at Carmarthen, 85° at Lorient and Perpignan, but not exceeding 64° in London and Paris, nor touching 60° in many parts of Germany.

Wind (1) anticyclonic in direction and light to moderate in force over our Islands; (2) Cyclonic in direction, but only moderate in force, as a whole, over the Continent — SE³ over Russia, NE³ to N³ over Scandinavia, NW³ over Denmark, W³ over South Germany. Freshening from SW. and W. on our northwest coasts later, but falling light from the N.P. at our eastern stations, and backing a little.

Barometer highest 30·3 in: over the southern parts of Ireland and exceeding 30·1 in: over our Islands, almost the whole of France, the western half of the North Sea and at Christiansund. Lowest 29·7 in: at Limburg and below 29·8 in: over almost the whole of Hungary, North Germany, and the southern parts of the Baltic, and in another complex depression over Corsica, the central parts of Italy and Dalmatia. Falling decidedly in the northwest of our Islands later, rising in the southeast and over Holland.

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.

N.B.—The *morning* observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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 ,,

EPORTS FOR JULY 1898.

2. CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
2	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	-
3	Leith	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	-
5	Pembroke	-	-	-	-	-	30·35	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Pembroke	30·29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	-	-
10	Scilly	-	-	-	-	-	30·31	+·05	-	-	-	-	-	-	-	-	-	-	-	-
..	Jersey	30·27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Aberdeen	-	-	-	-	-	29·99	-·36	-	-	-	-	-	-	-	-	-	-	-	-
..	York	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-
..	Dungeness	-	-	-	-	-	-	-	-	59	-	-	-	-	-	-	-	-	-	-
13	York	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	-	-
..	Paris	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-
15	Nairn	29·88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
..	Prawle Point	-	-	-	-	-	30·20	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Holyhead	-	-	-	-	-	30·20	+·08	-	-	-	-	-	-	-	-	-	-	-	-
17	Ardrossan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain
..	Valencia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	-
..	Prawle Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	-
..	Dungeness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	-	-
18	Dungeness	-	-	-	-	-	30·06	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Wick	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Wick	29·84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
..	North Foreland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-
23	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·05
24	Nairn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·01
-	York	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7·4	-	-	-
..	Valencia	-	-	-	-	-	-	-	-	58	-	-	-	-	-	-	-	-	-	-
..	Dungeness	-	-	-	-	-	29·97	+·24	-	-	-	-	-	-	-	-	-	-	-	-
25	York	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7·5	-	-	-
..	London	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14·2	-	-	-
26	York	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7·6	-	-	-
27	Prawle Point	-	-	-	-	-	30·12	-	-	-	-	-	-	-	-	-	-	-	-	-
28	York	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5·9	-	-	-
..	Scilly	-	-	-	-	-	30·06	-	-	-	-	-	-	-	-	-	-	-	-	-
29	York	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4·5	-	-	-
31	Roche's Point	-	-	-	-	-	-	-	-	55	-	-	-	-	-	-	-	-	-	-
-	Scilly	-	-	-	-	-	-	-	63	-	+1	-	-	-	-	-	-	-	-	-

ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
5	Lisbon	29.99	66	NNW	5	b	30.03	+.07	68	61	−1	N	2	b	-	b	-	79	63	-
..	Azores	30.23	65	SE	4	r	30.24	+.06	66	63	0	ESE	4	0	3	r	-	73	63	0.04
9	Lyons	30.04	70	NNW	1	0	30.08	−.03	58	55	−8	N	2	b	-	0	-	76	55	-
10	Corunna	29.96	68	N	1	f	30.05	-	67	61	-	NE	3	b	2	f	-	77	59	-
16	Lisbon	30.09	66	W	4	b	30.15	+.13	67	60	−3	WNW	3	0	-	b	-	75	64	-
..	Azores (P. Delgada)	30.26	69	NE	3	0	30.30	+.15	68	64	+1	NE	2	0	1	0	-	73	64	-
19	Lisbon	29.99	68	SW	3	0	30.01	−.01	67	62	−1	NW	2	0	-	0	-	73	64	-
21	Lisbon	30.09	67	NNW	5	?	30.07	−.04	72	66	+5	N	4	b	-	0	-	75	66	-
26	Corunna	30.09	66	NW	1	b	30.09	-	66	64	-	NW	1	f	2	b	-	70	57	