

Station Tables in Met Office Monthly Weather Reports - Volume 5

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METEOROLOGICAL OFFICE

THE
MONTHLY WEATHER REPORT
FOR THE YEAR 1940

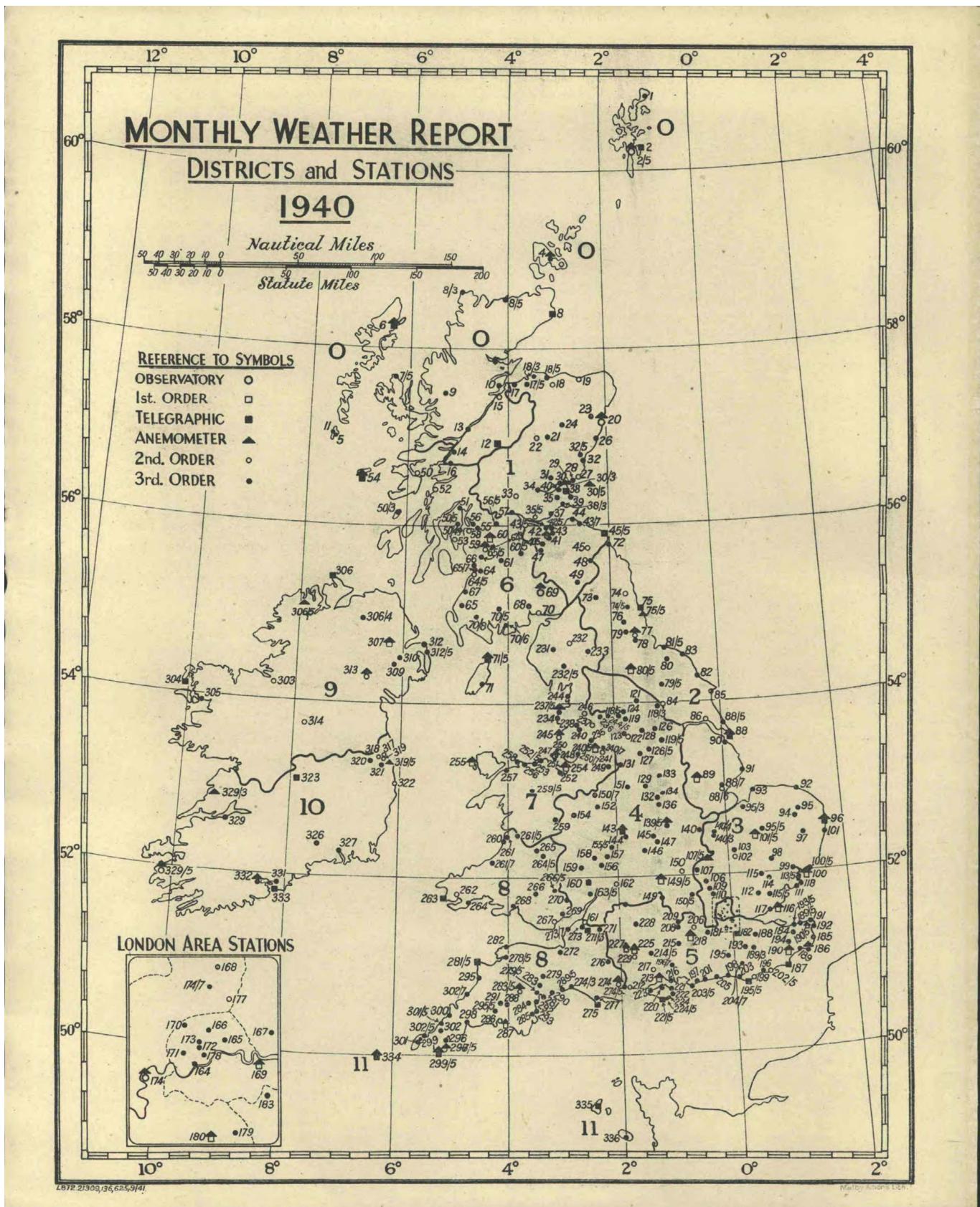
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1941

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g.—Table III (a).—Observations of duration of starlight at the Royal Observatory, Greenwich, and at Porton, Wilts, and of cloud and fog by day at Greenwich.

h.—Table III (b).—Direct solar radiation at Kew Observatory.

i.—Table IV, giving summaries of the observations of pressure, temperature, humidity, cloud, visibility and wind, made at set hours. The hours, not being the same for all stations, are indicated in the Table.

j.—Notes on the Tables.

Tables III and IV together include the items comprised in the international form of monthly climatological summary, the Form B of the Report of the International Meteorological Committee, 1874; and they give, in addition, information regarding the duration of bright sunshine, earth temperature at 1 foot and 4 feet (both from 1906), the number of observations of wind of force 4-5 and 6-7 on the Beaufort Scale (from 1937), of winds of force 1-3 (from 1923), the number of days of fog (from 1906), the number of observations of different degrees of visibility (from 1923), the numbers of days of ground frost, i.e., minimum temperature on the grass, 30.4°F. and below (from 1908), and the pressure at mean sea level (from 1912).

DISTRICT VALUE STATIONS, 1940

The following are the stations, summaries from which are used for the computation of the district values of temperature, rainfall, earth temperature and sunshine, Table I:—

TR, Temperature and Rainfall : E1, Earth Temperature at 1 foot : E4, Earth Temperature at 4 feet : S, Sunshine.

DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.
0	Fort Augustus ..	TR - - S	4	Birmingham ..	TR E1 E4 S	8	Bath ..	TR E1 E4 S
	Inverness ..	TR - - S		Bradford ..	- E1 E4 -		Cardiff ..	- E1 E4 -
	Kirkwall ..	TR - - S		Bromyard ..	- E1 E4 -		Cullompton ..	TR E1 - S
	Lerwick ..	TR - - S		Buxton ..	- E1 E4 -		Falmouth ..	TR - - S
	Stornoway ..	TR - - S		Harrogate ..	TR E1 E4 S		Iffracombe ..	- E1 E4 -
				Huddersfield ..	- E1 E4 -		Newquay ..	- E1 E4 -
				Nottingham ..	TR E1 E4 S		Plymouth ..	- E1 -
				Oxford ..	TR - - S		Rhayader ..	TR - - S
				Ross-on-Wye ..	TR - - S		St. Ann's Head ..	TR - - S
				Sheffield ..	- E1 E4 -		Swansea ..	- E1 E4 -
1	Aberdeen ..	TR - - S						
	Dundee ..	TR - - S	5	Bournemouth ..	- E1 E4 -			
	Edinburgh ..	TR - - S		Brighton ..	- E1 E4 -			
	Marchmont ..	TR - - S		Camden Square ..	- E1 E4 -	9	Armagh ..	TR E1 E4 S
	Nairn ..	TR - - S		Eastbourne ..	- E1 E4 -		Birr Castle ..	TR - - S
6	Dumfries ..	TR E1 E4 S		Enfield ..	- E1 E4 -		Blackrod Point ..	TR - - -
	Eskdalemuir ..	TR - - S		Hastings ..	TR E1 E4 S		Malin Head ..	TR - - S
	Tiree ..	TR - - S		Kew Obs. ..	TR E1 E4 S		Mallaranny ..	TR - - S
	Renfrew ..	TR - - S		Margate ..	TR E1 E4 S		Markree Castle ..	TR E1 E4 S
	(Abbotsinch) ..	TR - - S		Marlborough ..	TR - - S			
	Rothesay ..	TR E1 E4 S		Southampton ..	TR - - S	10	Ballinacurra ..	- E1 - S
2	Cockle Park ..	TR E1 E4 S		Tunbridge Wells ..	- E1 -		Birr Castle ..	TR E1 E4 S
	Cranwell ..	TR - - S		Wisley ..	- E1 E4 -		Dublin (Phoenix Pk.) ..	TR - - S
	Durham ..	TR - - S	7	Bolton ..	- E1 E4 -			
	Hull ..	- E1 E4 -		Burnley ..	- E1 E4 -			
	Scarborough ..	TR - - S		Darwen ..	- E1 E4 -			
	York ..	TR E1 E4 S		Holyhead ..	TR - - S	11	Guernsey ..	TR E1 E4 S
3	Cambridge ..	TR E1 E4 S		Manchester (City) ..	- E1 E4 -		Jersey ..	TR - - S
	Clacton ..	TR E1 E4 S		Newton Rigg ..	TR - - S		Scilly ..	TR - - S
	Lowestoft ..	- E1 E4 -		Selby ..	TR - - S			
	Norwich ..	- E1 -		Southport ..	TR E1 E4 S			
	Rothamsted ..	TR - - S		Stonyhurst ..	TR - - S			
	Tottenham ..	TR - - S						
	Yarmouth ..	TR E1 E4 S						

Tiree.—Adopted as a district value station from January, 1937. The averages of temperature and sunshine refer to the period 1927-1936.

In 1933 it was announced by the Ordnance Survey that in future mean sea level at Newlyn (Cornwall) should be adopted as the standard of reference for heights in the British Isles in place of Liverpool. The heights given in this publication are above the old ordnance datum, but at those stations where the new height would differ from the old height by one foot or more, a correction to obtain the new height is given below. The new heights are not yet adopted in this publication because they cannot in all cases be regarded as final.

Lincoln.	Mablethorpe - 1·2	Essex.	Maldon - 1·8	Kent.	Herne Bay - 1·5
Norfolk.	Terrington - 1·2		Southend - 1·5		Ramsgate - 1·5
Suffolk.	Chadacre - 1·9		Walton-on-Naze - 1·8		Sheerness - 1·5
	Mildenhall - 1·5	Bucks.	Halton - 1·1		Whitstable - 1·5
Essex.	Chelmsford - 1·8	Kent.	Deal - 1·4	Hants.	St. Catherine's Pt. - 1·3
	Dovercourt - 1·8		Goudhurst - 1·2	Dorset.	Weymouth - 1·1

LIST OF STATIONS

A list of the climatological stations of Tables III and IV and of the anemograph stations of Table II is given below. This list also contains, in italic type, the names of a few stations which contribute regular monthly returns but which do not appear in Tables II, III or IV. For additional information regarding the anemograph stations, reference should be made to the Annual Summary, p. 211. The positions of the stations are shown in the Frontispiece.

In the Tables of the Monthly Weather Report the stations are arranged according to Districts and Counties. In the list printed herewith the alphabetical order is adopted. The latitude and longitude of each station are given, but not the height, as that is shown in the monthly issues.

Classification of stations.—Stations are classified as follows:—

- I. Normal Meteorological Observatory ; Station of the First Order.—Continuous records or hourly readings of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form and motion of the clouds, and notes on the weather. The principal "distributive" stations maintained on aerodromes for supplying information to the Royal Air Force or to civil aviation services are included.

- II. Normal Climatological Station.—Daily observations at least twice a day, generally at 9 h. (9 a.m.) and 21 h. (9 p.m.) G.M.T. of pressure, temperature (wet and dry-bulb), wind, amount of cloud, and weather, with the daily maximum and minimum of temperature, the daily rainfall, and remarks on the weather. Observations of the range of visibility and records of sunshine are commonly obtained at these stations also. In this category are included all the stations of the second order of the International Classification and a few stations of the third order.
- III. Auxiliary Climatological Station, at which observations similar to those of a normal climatological station are made once a day only, generally at 9 h. (9 a.m.) G.M.T. This category includes most of the stations of the third order of the International Classification.
- T. Telegraphic Reporting Station.—Daily observations are made at 7 h. (7 a.m.), 13 h. (1 p.m.) and 18 h. (6 p.m.) G.M.T., similar in general character to those taken at Normal Climatological Stations, and reported to the Office each day by telegraph. At some telegraphic stations an additional observation is made at 1 h. (1 a.m.) G.M.T. and also in some cases at 4 h. (4 a.m.), 10 h. (10 a.m.), 16 h. (4 p.m.) and 22 h. (10 p.m.) G.M.T.
- II. C.W.; III C.W. Normal Climatological Station or Auxiliary Climatological Station which is also a Crop Weather Station.—Crop Weather stations are stations which participate in the scheme for the investigation of the relationship between weather and crops inaugurated by the Ministry of Agriculture and the Board of Agriculture for Scotland in co-operation with the Meteorological Office.
- II. H.; III H. Normal Climatological Station or Auxiliary Station which is also a Health Resort Station.—These Stations make special observations at 17 h. (5 p.m.) G.M.T. which are reported to this Office by telegram for communication to the newspaper press. Summaries of these special 17 h. (5 p.m.) observations are, however, not published in this volume.
- A.; II A.; III A.; T.A.; Anemometer Station (which may also be a Normal Climatological Station, Auxiliary Station or Telegraphic Station) for which summaries are published in Table II (Autographic Records of Wind) of the Monthly Weather Report.

The publications for which the returns are prepared are indicated by the following letters:—

- | | |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D. Daily Weather Report. Full return. | m. Monthly Weather Report. Table III, not Table IV. |
| d. Daily Weather Report. Abridged return. | μ . Monthly Weather Report. Wind velocity. |
| W. Weekly Weather Report. Temperature, rainfall, in most cases sunshine, and in some cases ground temperature. | m_o . Monthly Weather Report. Sunshine only. |
| w. Weekly Weather Report. Sunshine only. | O. The Observatories' Year Book.—This publication contains hourly values of meteorological and magnetic elements, diurnal inequalities for magnetism and for atmospheric electricity, absolute observations of magnetism and atmospheric electricity, seismological tables, upper air data, etc. |
| W ¹ . Registrar-General's Weekly Summary. | |
| M. Monthly Weather Report. Table III (Temperature extremes, rainfall and weather); and Table IV (Pressure, humidity, &c.). | |

AVERAGES.

Rainfall (Table III), Pressure (Table IV).—The averages refer to the period 1881-1915 and are "weighted" if the record is not complete for that period. The averages of rainfall are given in the Book of Normals, Section V.

Temperature and Sunshine (Table III).—The averages in nearly all cases refer to periods of from 10 to 30 years ending 1935. The length of the period for each station is shown in the appropriate column of the List of Stations. Differences from averages of less than 30 years are printed in italics.

The averages are given in the following publications:—

- (1) Averages of Temperature for the British Isles for periods ending 1935 (M.O. 407).
- (2) Averages of Bright Sunshine for the British Isles for periods ending 1935 (M.O. 408).

STANDARDS OF TIME.

The Summer Time Act of 1925 fixes permanently the period in each year during which Summer Time is in force. In 1940 the period adopted was from February 25th until the end of the year. From this date the public clocks were one hour in advance of Greenwich Mean Time. Observers were recommended to make their observations at the same hours by Greenwich Time throughout the year. At nearly all stations this recommendation was adopted, but in a very few cases circumstances made it necessary to adhere to the same hour by clock time. The actual hours of observation are given in Table III of the monthly issues.

The stations at which the hours of observation are referred to Local Mean Time are given in the Notes to the Tables, printed on the last page of each monthly issue. Two Irish stations are included, but when the use of Dublin Time for civil purposes was discontinued in Ireland from October 1st, 1916, other stations advanced their observations by 25 minutes and adopted Greenwich Time.

SEA-TEMPERATURE.

Returns of sea-temperatures are received by the Meteorological Office from certain ships, lightships and coast stations. The mean temperatures of the seas round the British Isles for the months of the year 1940 are shown by figures within circles on the maps in the monthly issues of this report. In general the values are derived from readings of ships under way, or from light vessels.

LIST OF STATIONS

Station.	No.	Dist.	County.	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
Aber (University Coll. Farm)	257	7	Carnarvon	53 14	4 1W.	III C.W.	D, W, W ¹ , M, O, μ.	11 10	Prof. R. G. White.
Aberdeen (Observatory)	20	1	Aberdeen	57 10	2 6W.	I	D, m.	30 30	Meteorological Office.
Aberstwyth	260	8	Cardigan	52 25	4 4W.	III H.	D, m.	25 30	The Town Clerk.
Aberystwyth, P.B.S.	261	8	Cardigan	52 25	4 3W.	III C.W.	m.	11 11	Prof. R. G. Stapledon, M.A., Plant Breeding Station.
Achnashellach	9	0	Ross and Cromarty	57 29	5 16W.	III	m.	13 —	The Forester-in-Charge, for Forestry Commission (Scotland).
Addington (Hills Res.)	179	5	Surrey	51 22	0 4W.	III	m.	30 —	Borough Engineer, Croydon.
Aldergrove (Aerodrome)	307	9	Antrim	54 39	6 13W.	I	D, M, μ.	— —	Meteorological Office.
Ambleside	234/5	7	Westmorland	54 26	2 57W.	III H.	m.	— —	The Clerk to the Council.
Amesbury	225	—							See Boscombe Down.
Ampleforth (College)	79/5	2	Yorkshire (N.R.)	54 12	1 5W.	III	m.	30 —	Rev. J. B. Boyan, O.S.B.
Appleby	233	7	Westmorland	54 34	2 30W.	III	m.	22 —	Lady Holmes.
Arbroath	27	1	Angus	56 33	2 35W.	II H.	m.	30 10	The Town Council. (S. J. W. Robertson.)
Ardingly	195	5	Sussex	51 4	0 5W.	III	m.	20 —	Sir Henry P. Price.
Ardtornish	50	—							See Morvern.
Armagh (Observatory)	313	9	Armagh	54 21	6 39W.	II	W, M.	30 30	The Director of Observatory (M.O.).
Askham Bryan	118/3	4	Yorkshire (W.R.)	53 55	1 10W.	III C.W.	m.	— —	University of Leeds.
Attenborough	132	4	Nottingham	52 55	1 13W.	III	m.	— —	Miss J. Granger.
Auchincruive	64	6	Ayr	55 29	4 34W.	III	m.	— —	West of Scotland College of Agriculture.
Ayr	64/5	6	Ayr	55 29	4 37W.	III	m, W ¹ .	— —	Medical Officer of Health.
Bala	258/5	7	Merioneth	52 55	3 37W.	III	m.	— —	W. Walker, Esq., Jnr.
Balerno (Shothead)	49/5	1	Midlothian	55 52	3 21W.	III	m.	— —	A. D. Buchanan Smith, Esq.
Balfour	56/5	6	Stirling	56 4	4 20W.	III	m.	— —	W. J. Goldie, Esq., M.A.
Ballinacurra (Middleton)	331	10	Cork	51 52	8 10W.	III	w, m.	30 30	Messrs. John H. Bennett, Ltd.
Balmoral (Castle G'dns.)	21	1	Aberdeen	57 2	3 12W.	III	m.	30 —	A. Stuart, Esq.
Baltasound (Halligarth)	1	0	Shetlands	60 46	0 50W.	III	m.	29 29	T. Edmondson Saxby, Esq., F.R.F.P.S., (Glas.), J.P.
Banff	19	1	Banff	57 40	2 31W.	II H.	m.	15 21	The Town Council. (I. H. Gordon.)
Barnstaple	278/5	8	Devon	51 5	4 3W.	III	m.	— —	The Librarian, North Devon Antheneum
Barra (Craigtoun)	4/5	0	Hebrides	56 59	7 30W.	III	m.	— —	James Reilly, Esq.
Barra (Skallary)	5	0	Inverness	56 58	7 26W.	III	m.	— —	James Smith, Esq.
Bath	271	8	Somerset	51 23	2 21W.	III H.	d, W, M, W ¹ .	25 27	Medical Officer of Health.
Beachy Head (C. Guard Stn.)	195/5	5	Sussex	50 44	0 15E.	T.	m.	11 —	The Chief Officer (M.O.).
Bell Rock Lighthouse	30/5	1	Angus	56 26	2 24W.	A.	μ.	— —	The Head Keeper (M.O.).
Bellingham	73	2	Northumberland	55 13	2 18W.	III	m.	27 —	Sir Claude Morrison-Bell, Bart.
Belper (School)	129	4	Derby	53 1	1 29W.	III	m.	26 —	Herbert Strutt Secondary School.
Berwick-on-Tweed	72	2	Northumberland	55 46	2 0W.	III H.	d, m.	12 12	Borough Surveyor.
Bexhill (Egerton Park)	196	5	Sussex	50 50	0 28E.	III H.	m.	— —	The Borough Council. (H. J. Sargent). See Birkenhead.
Bidston Observatory	248	—							Meteorological Office.
Biggin Hill (Aerodrome)	182	5	Kent	51 19	0 2E.	T.	M.	15 15	The Director, St. Ives Research Station.
Bingley	118/5	4	Yorkshire (W.R.)	53 51	1 51W.	III	m.	— —	
Birkenhead (Bidston Obs.)	248	7	Cheshire	53 24	3 4W.	III A.	M, W ¹ , μ.	30 28	The Director.
Birmingham (Edgbaston)	143	4	Warwick	52 29	1 56W.	T.A.	D, W, M, W ¹ , μ.	13 30	Midland Institute. (A. L. Kelley).
(Sparkhill)	144	4	Warwick	52 27	1 51W.	III	m.	28 —	D. H. Owen, Esq.
Birr Castle	323	10	Offaly	53 6	7 56W.	T.	D, W, M.	15 30	The Earle of Rosse. See Edinburgh.
Blackford Hill	42	—							Medical Officer of Health.
Blackpool	234	7	Lancashire	53 49	3 3W.	III H.	d.	25 30	Sub-Postmistress.
Blacksod Point	304	9	Mayo	54 6	10 4W.	T.	D, W, M.	10 —	G. F. E. Storey, Esq.
Bodiam (Hawkhurst)	106/7	5	Sussex	50 51	0 30W.	III	m.	— —	See Edinburgh.
Boghall	41	—							The Town Clerk.
Bognor Regis	197	5	Sussex	50 47	0 41W.	III H.	d.	30 25	The Corporation. (E. Hendy).
Bolton	235	7	Lancashire	53 35	2 27W.	III	m.	30 30	Meteorological Office.
Boscombe Down (Aero.)	225	5	Wiltshire	51 10	1 45W.	I	D, M, μ.	— —	N. H. Middlebrook, Esq.
Boston (Freiston Rd.)	88/6	2	Lincolnshire	52 58	0 0	II	m.	— —	
Boston (North Sea Camp)	88/7	2	Lincolnshire	52 56	0 4W.	II	m.	— —	C. T. H. Sharp, Esq.
Bournemouth (Vale View)	212	5	Hampshire	50 43	1 53W.	II H.	d, m.	25 30	The Corporation. (A. C. Marsh, F.R.Met.S.).
Bradford (Lister Park)	119	4	Yorkshire (W.R.)	53 49	1 46W.	III	m, W ¹ .	28 28	The Corporation.
Braemar	22	1	Aberdeen	57 0	3 24W.	II	M.	30 —	R. A. Lees, Esq.
Bridlington (School)	85	2	Yorkshire (E.R.)	54 5	0 13W.	II H.	m.	10 11	The Headmaster.
Brighton	198	5	Sussex	50 49	0 8W.	III H.	d, M, W ¹ .	25 30	Medical Officer of Health. See Horfield.
Bristol	161	—							Meteorological Office.
Bristol (Airport)	271/7	8	Somerset	51 25	2 35W.	T.	D, M.	— —	Borough Engineer.
Bromley	183	5	Kent	51 24	0 1E.	III	m.	— —	Miss M. A. Philpott.
Bromyard	158	4	Hereford	52 11	2 30W.	III	m.	25 —	See Carnoustie.
Buddon Ness Lighthouse	29	—							Clerk to the U.D.C.
Bude	295	8	Cornwall	50 50	4 33W.	III H.	d.	12 17	Sir Shafte Adair, Bart.
Bungay (Flixton)	97	3	Suffolk	52 25	1 23E.	III	m.	15 —	See London.
Bunhill Row	165	—							Medical Officer of Health.
Burnley	236	7	Lancashire	53 48	2 15W.	III	m, W ¹ .	28 28	The Town Clerk.
Buxton	131	4	Derby	53 16	1 55W.	III H.	m.	25 28	
Byfleet (Wisley R.H.S. Gdns.)	181	5	Surrey	51 17	0 26W.	III C.W.	M.	30 30	The Director.
Calshot (Aerodrome)	213	5	Hampshire	50 49	1 18W.	I	D, M, μ.	15 15	Meteorological Office.
Cambridge (Bot. Gdns.)	102	3	Cambridge	52 12	0 8E.	II	W, M.	30 30	The Curator.
Cambridge (Univ. Farm)	103	3	Cambridge	52 12	0 8E.	III C.W.	m.	— —	The Director.
Canfield Square	166	—							See London.
Cannington (Somerset Farm Institute)	272	8	Somerset	51 9	3 4W.	III C.W.	m.	— —	The Principal.
Canterbury	184	5	Kent	51 17	1 5E.	III	m.	20 —	A. Lander, Esq.

Station.	No.	Dist.	County.	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
Edinburgh :—				° N.,	° ,				
Blackford Hill ..	42	1	Midlothian ..	55 55	3 11W.	II A.	W ¹ ,W,M, μ .	30 30	The Astronomer Royal for Scotland.
" (Bot. Gardens) ..	42/5	1	Midlothian ..	55 58	3 12W.	III	m.	— —	The Curator.
Boghall ..	41	1	Midlothian ..	55 52	3 12W.	III C.W.	m.	11 11	Edinburgh and East of Scotland College of Agriculture.
Liberton (College Farm) ..	43	1	Midlothian ..	55 55	3 10W.	III	m.	— —	Edinburgh and East of Scotland College of Agriculture.
University, (King's Buildings) ..	43/5	1	Midlothian ..	55 55	3 11W.	III	m.	— —	Professor of Engineering.
Ellbridge (Experimental Stn.) ..	295/5								See St. Mellion.
Enfield ..	168								See London.
Eskdalemuir (Observatory) ..	69	6	Dumfries ..	55 19	3 12W.	I	D,W,M, μ ,O.	26 26	The Superintendent (M.O.).
Exmouth ..	281	8	Devon ..	50 36	3 24W.	III H.	m.	22 22	The Engineer, U.D.C.
Falmouth (Observatory) ..	296	8	Cornwall ..	50 9	5 5W.	III H.	d,m,W.	25 30	The Supt. for Royal Cornwall Polytechnic Society.
Farnham (Boundstone) ..	180/4	5	Surrey ..	51 11	0 48W.	III	—	— —	A. Hampton Brown, Esq.
Farnham ..	180/3	5	Surrey ..	51 13	0 48W.	III	—	— —	A. C. Hunt, Esq.
Felixstowe (Aerodrome) ..	100	3	Suffolk ..	51 57	1 20E.	I	D,M, μ .	15 30	Meteorological Office.
Felixstowe ..	100/5	3	Suffolk ..	51 58	1 20E.	III H.	m.	— —	The Engineer and Surveyor.
Fleetwood ..	237/5	7	Lancashire ..	53 56	3 1W.	A.	μ .	— —	Borough Council (M.O.).
Fleetwood ..	237/5	7	Lancashire ..	53 56	3 1W.	III H.	m.	— —	The Town Clerk.
Fochabers (Gordon Castle) ..	18	1	Moray ..	57 37	3 5W.	II	m.	30 27	J. Taylor, for Commissioners of Crown Lands.
Folkestone (Isolation Hospital) ..	189	5	Kent ..	51 5	1 11E.	III H.	d,m.	20 30	Borough Engineer.
Forres ..	17/5	1	Moray ..	57 37	3 36W.	III H.	m.	— —	The Town Clerk.
Fort Augustus (Abbey) ..	13	0	Inverness ..	57 8	4 40W.	III	W,m.	30 20	The Procurator.
Fortrose ..	10	0	Ross and Cromarty ..	57 35	4 8W.	III	m.	25 25	The Town Council (Rev. Wm. Craig).
Fort William ..	14	0	Inverness ..	56 49	5 7W.	III	m.	21 20	Jas. W. Ainslie, Esq.
Fowey ..	298	8	Cornwall ..	50 21	4 38W.	III	m.	252 5	The Town Clerk.
Foynes ..	329	10	Limerick ..	52 37	9 7W.	III	m.	30 —	The Lord Monteagle, C.M.G., M.V.O.
Garvagh (Moneydig) ..	306/4	9	Londonderry ..	54 59	6 36W.	III	m.	— —	J. Porter, Esq.
Gibraltar ..	337	—	—	36 6	5 21W.	I	M.	15 —	Meteorological Office.
Glasgow (Springburn Park) ..	62/3	6	Lanark ..	55 53	4 14W.	III	m.	— —	Director of Parks.
Glasneven (Botanic Gdns.) ..	317	10	Dublin ..	53 23	6 16W.	II	M.	30 —	The Keeper.
Glenbranter ..	51		Kirkudbright ..	55 6	4 11W.	III	m.	— —	See Strachur.
Glenlee ..	70/5	6	Moray ..	57 42	3 22W.	III	m.	— —	Galloway Water Power Co.
Gordon Castle ..	18		Norfolk ..	52 35	1 43E.	T.A.	D,M,W, μ .	15 —	See Fochabers.
Gordonstoun ..	18/3	1	Kent ..	51 5	0 27E.	III	m.	— —	J. C. Bartholomew, Esq.
Gorleston (C. Guard Stn.) ..	96	3	Renfrew ..	55 56	4 46W.	II	W ¹ ,m.	30 —	Station Officer (M.O.).
Goudhurst (Beddington Forest) ..	189/3	5	Channel Islands ..	49 27	2 33W.	T.H.	D,M,W.	12 30	Forestry Commission.
Greenock ..	58	6	Cornwall ..	50 8	5 32W.	III C.W.	m.	11 11	J. Macalister, Esq., M.Inst.C.E.
Greenwich ..	169		Buckingham ..	51 57	0 38E.	III	m.	— —	See London.
Guernsey (St. Peter Port) ..	335	11	Hertford ..	51 48	0 22W.	III C.W.	W,M.	30 30	States Meteorological Committee.
Gulval (Experimental Stn.) ..	299	8	Yorkshire (W.R.) ..	54 0	1 33W.	III H.	d,W,M.	15 30	Cornwall County Council.
Halstead ..	115	3	Devon ..	50 1	4 32W.	T.	D,M.	— —	F. N. Adams, Esq.
Halton ..	150/5	4	Sussex ..	50 51	0 34E.	II H.	d,W,M.	25 30	R.A.F. Inst. of Pathology.
Hampstead Res. ..	170		Pembroke ..	51 48	4 58W.	II	m.	28 28	See London.
Harpden (Rothamsted) ..	109	3	Flint ..	53 12	3 1W.	III	m.	30 —	The Borough Surveyor.
Harrogate ..	121	4	Roxburgh ..	55 23	2 39W.	III	m.	30 —	Messrs. John Summers and Sons, Ltd.
Hartest (Chadacre Agric. Inst.) ..	98	3	Suffolk ..	52 8	0 42E.	III C.W.	m.	— —	T. Lockie for Mrs. Browne.
Hartland Point (C. Guard Stn.) ..	281/5	8	Anglesey ..	53 19	4 37W.	I	D,W,M, μ .	15 23	See Bodiam.
Hastings (White Rock) ..	202/5	5	Gloucester ..	51 29	2 35W.	III	m.	— —	Station Officer (M.O.).
Haverfordwest ..	262	8	Cheshire ..	53 23	3 12W.	III	m.	— —	Town Clerk.
Hawarden Bridge ..	252	7	Yorkshire (W.R.) ..	53 38	1 45W.	II	m,W ¹ ,	29 29	The Surveyor.
Hawick (Wolfleee) ..	49	1	Yorkshire (W.R.) ..	53 39	1 50W.	III	m.	11 —	The Secretary, Agricultural Research Institute.
Hawkhurst ..	196/7		Yorkshire (E.R.) ..	53 45	0 16W.	II	m, W ¹ .	30 10	See Poole.
Hazelhatch (Peanmont San.) ..	320								Meteorological Office.
Helensburgh (Valve House) ..	56	6	Dumbarton ..	56 1	4 43W.	III	m.	30 25	George H. Brown, Esq.
Hereford (Belmont Abbey) ..	159	4	Hereford ..	52 5	2 45W.	III	m.	30 —	See Durham.
Herne Bay ..	189/5	5	Kent ..	51 22	1 7E.	III H.	m.	— —	The Surveyor.
Hillsborough ..	309	9	Down ..	54 27	6 4W.	III	m.	— —	The General Superintendent, Parks, Cemeteries and Allotments Dept.
Holton Heath ..	274								Hunstanton Advancement Association.
Holyhead ..	255	7							The Director of Education for the Lancashire County Council.
Horfield ..	161	4							
Houghall (Hort. Station) ..	78								
Hoylake (Rec. Ground) ..	247	7							
Huddersfield (Ravensknowle) ..	122	4							
" (Oakes) ..	123	4							
Hull (Pearson Park) ..	86	2							
Hunstanton ..	93	3	Norfolk ..	52 57	0 29E.	III H.	m.	12 12	
Hutton ..	238	7	Lancashire ..	53 44	2 45W.	III	M.	23 23	

Station.	No.	Dist.	County.	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
Ilfracombe (Bowling Green) ..	282	8	Devonshire ..	51 12	4 8W.	III H.	d.m.	25 25	The Surveyor.
Ilkley ..	124	4	Yorkshire (W.R.) ..	53 55	1 50W.	III H.	d.	— —	The Engineer and Surveyor.
Inverness ..	15	0	Inverness ..	57 26	4 13W.	II	W.M.	25 25	The Town Council. (Malcolm McPhee).
Jersey (St. Heliers) ..	336	11	Channel Islands	49 11	2 6W.	III H.	d.W.m.	25 30	The Greffier.
Kensington ..	171								
Kelso (Broomlands) ..	48	1	Roxburgh ..	55 36	2 25W.	III	m.	30 —	See London J. C. Scott, Esq.
Keswick ..	231	7	Cumberland ..	54 36	3 9W.	III	m.	30 17	Clerk to the Urban District Council.
Kettins ..	31	1	Angus ..	56 32	3 14W.	III	m.	26 —	W. B. Ogilvie, Esq.
Kew Observatory ..	174								See London
Killerton ..	283								See Silverton.
Kilmarnock (Kay Park) ..	65/5	6	Ayr ..	55 37	4 29W.	III	m,W ¹ .	28 28	W. Dunbar, Esq., C.E.
Kingstown Harbour ..	319/5	10	Dublin ..	53 17	6 8W.	A.	μ .	— —	The Office of Public Works.
Kingsway ..	165								See London.
Kirkcaldy (Victoria Hosp.) ..	37	1	Fife ..	56 8	3 10W.	III	m,W ¹ .	22 —	Medical Officer of Health.
Kirkwall ..	4	0	Orkney ..	58 59	2 57W.	III A.	W,m, μ .	24 30	The Town Council.
Lake Vyrnwy ..	259/5	7	Montgomery ..	52 46	3 28W.	—	—	— —	Chief Engineer.
Larkhill (School of Artillery) ..	227	5	Wilts ..	51 11	1 48W.	I	M, μ .	15 —	Meteorological Office.
Leamington Spa ..	146	4	Warwick ..	52 18	1 30W.	III H.	d.	13 19	Medical Officer of Health.
Leckford ..	214/5	5	Hampshire ..	51 7	1 26W.	III	m.	— —	The Managing Director, Leckford Estate, Ltd.
Leicester (City General Hospital) ..	139/5	4	Leicester ..	52 38	1 5W.	III A.	m, μ .	— —	Medical Officer of Health.
Lerwick Observatory..	2/5	0	Shetlands ..	60 8	1 11W.	I	M, μ ,O,W.	14 13	Meteorological Office.
+Lerwick (The Knab C. Guard Stn.) ..	2	0	Shetlands ..	60 9	1 8W.	T.	D.M.	15 13	District Officer (M.O.).
Leuchars (Aerodrome) ..	38	1	Fife ..	56 23	2 53W.	I	D.M.	15 15	Meteorological Office.
Leyland ..	240	7	Lancashire ..	53 41	2 42W.	III	m.	24 25	H. Nowell Farington, Esq.
Liberton (College Farm) ..	43								See Edinburgh.
Lisburn (School) ..	310	9	Antrim ..	54 31	6 3W.	III	—	18 —	The Headmaster.
Littlehampton ..	201	5	Sussex ..	50 48	0 32W.	III H.	d.	10 15	The Clerk to the U.D.C.
Liverpool (Bidston) ..	248								See Birkenhead.
Lizard, The (C. Guard Stn.) ..	299/5	8	Cornwall ..	49 57	5 12W.	T.A.	D,M, μ .	— —	Station Officer (M.O.).
Llandudno ..	258	7	Carnarvon ..	53 20	3 50W.	III H.	d.M.	25 30	Medical Officer of Health.
Llandrindod Wells ..	204/5	8	Radnor ..	52 14	3 22W.	III H.	M.	— —	Clerk to the U.D.C.
Llety-evan-hen ..	261/5								See Talybont.
Logie Coldstone ..	24	1	Aberdeen ..	57 8	2 55W.	III	m.	30 —	Duncan Paterson, Esq., M.A., B.Sc.
London :—									
Bunhill Row ..	165	Lon.	London ..	51 31	0 5W.	(Sunsh. only)	d,m,g.	— 30	Messrs. T. De La Rue & Co., Ltd.
Camden Square ..	166	Lon.	London ..	51 33	0 8W.	III	d.m.	30 —	Royal Meteorological Society.
Chelsea ..	164	Lon.	London ..	51 30	0 10W.	III	—	— —	The Borough Surveyor.
East Ham ..	167	Lon.	Essex ..	51 32	0 4E.	III	m.	30 —	The Corporation.
Enfield ..	168	Lon.	Middlesex ..	51 40	0 10W.	II	m.	24 24	Medical Officer of Health.
Greenwich Observatory ..	169	Lon.	London ..	51 29	0 0	I	d,M,W ¹ .	30 30	The Astronomer Royal.
Hampstead Reservoir ..	170	Lon.	London ..	51 34	0 11W.	III	d,m.	25 25	The Hampstead Scientific Society. (E. L. Hawke, M.A.).
Kensington Palace ..	171	Lon.	London ..	51 30	0 10W.	III	d,M.	10 —	H.M. Office of Works (M.O.).
Kew Observatory ..	174	Lon.	Surrey ..	51 28	0 10W.	I	D,W,M,O, μ .	30 30	The Superintendent (M.O.).
Kingsway ..	165	Lon.	London ..	51 31	0 7W.	(Surish. only)	m ₀ .	— —	Meteorological Office.
Regent's Park ..	173	Lon.	London ..	51 31	0 9W.	III	d,m.	— —	H.M. Office of Works (M.O.).
Southgate ..	174/7	Lon.	London ..	51 38	0 07W.	III	—	— —	Borough Engineer.
Tottenham ..	177	Lon.	Middlesex ..	51 36	0 5W.	II	W,m.	29 29	Medical Officer of Health.
Westminster :—									
St. James's Park ..	178	Lon.	London ..	51 30	0 8W.	III	{ d.m.	30 —	H.M. Office of Works, (M.O.).
Training College ..	178	Lon.	London ..	51 30	0 8W.	(Sunsh. only)	{ d.m.	— 30	The Principal.
Long Ashton (Research Stn.) ..	273	8	Somerset ..	51 26	2 40W.	III C.W.	m.	15 15	The Principal.
Long Sutton ..	215	5	Hampshire ..	51 12	0 56W.	III C.W.	m.	12 12	The Lord Wandsworth College.
Lossiemouth ..	18/5	1	Moray ..	57 44	3 17W.	III H.	m.	— —	The Burgh Surveyor.
Lowestoft ..	101	3	Suffolk ..	52 29	1 45E.	III H.	d,m.	20 25	The Town Clerk.
Lundin Links ..	38/3	1	Fife ..	56 13	2 57W.	III	m.	— —	J. D. Ross, Esq., M.P.S.
Luton (Wardour Park) ..	166	3	Bedford ..	51 54	0 25W.	III	m.	15 15	Borough Engineer.
Lympne ..	190	5	Kent ..	51 5	1 E.	I	D,M, μ .	15 15	Meteorological Office.
Macclesfield ..	249	7	Cheshire ..	53 16	2 8W.	III	m.	30 —	Borough and Waterworks Engineer.
Maldon ..	115/5	3	Essex ..	51 30	0 40E.	III	m.	— —	The Town Clerk.
Malin Head ..	306	9	Donegal ..	55 23	7 24W.	T.	D,W,M.	15 21	P. Farren.
Mallaranny ..	305	9	Mayo ..	53 55	9 47W.	III	w.m.	17 20	Chief Engineer, G.S. Ry., Dublin.
Malta ..	338	—	—	35 54	14 31E.	I	M.	15 15	Meteorological Office.
Malvern (Free Library) ..	156	4	Worcester ..	52 8	2 18W.	III H.	m.	25 22	Borough Surveyor.
Manchester (Barton Aero) ..	240/5	7	Lancashire ..	53 28	2 23W.	I	D,M, μ .	— —	Meteorological Office.
" (Burnage School) ..	240/7	7	Lancashire ..	53 26	2 12W.	III	—	— —	Manchester Education Committee.
" (Whitworth Pk.) ..	241	7	Lancashire ..	53 28	2 14W.	II	M,W ¹ .	30 30	The Director, Physical Laboratories, University of Manchester.
Mansfield ..	133	4	Nottingham ..	53 9	1 11W.	III	m.	10 —	Borough Surveyor.
Manston (Aerodrome) ..	190/5	5	Kent ..	51 21	1 22E.	I	D,M, μ .	— —	Meteorological Office.

†Published in Table IV only.

Station.	No.	Dist.	County.	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
				o N.	o				
Marchmont ..	45	1	Berwick ..	55 44	2 25W.	III	W.m.	30 30	Capt. J. H. F. McEwen, M.P.
Margate ..	191	5	Kent ..	51 24	1 24E.	III H.	d,W.m.	25 30	The Town Clerk.
Market Drayton ..	150/7	4	Stafford ..	52 55	2 24W.	II	m.	— —	The Medical Superintendent, Cheshire Joint Sanatorium. <i>See Collooney.</i>
Markree Castle ..	303								
Marlborough College ..	228	5	Wilts ..	51 25	1 44W.	III	W.m.	30 30	The Headmaster.
Mayfield ..	151	4	Stafford ..	53 0	1 46W.	III	m.	27 23	G. C. Lawson, Esq.
Mildenhall ..	161/5	3	Suffolk ..	52 22	0 28E.	I	D,M, μ .	— —	Meteorological Office.
Milford ..	181/5	5	Surrey ..	51 40	0 39W.	III	m.	— —	G. S. Sansom, D.Sc.
Montrose ..	32	1	Angus ..	56 42	2 28W.	III H.	m.	15 19	Burgh Surveyor.
Montrose (Sunnyside Asylum) ..	32/5	1	Angus ..	56 44	2 27W.	III	—	— —	The Medical Superintendent.
Morecambe ..	244		Lancashire ..	54 4	2 52W.	III H.	d.	10 16	The Town Clerk.
Morpeth (Cockle Park) ..	74	2	Northumberland ..	55 13	1 41W.	II C.W.	W.M.	30 30	Northumberland County Council.
Morvern (Ardtornish) ..	50	6	Argyll ..	56 34	5 45W.	II	m.	25 —	A. Cameron, for O. H. Smith, Esq. <i>See Plymouth.</i>
Mount Batten (Aero.) ..	287								<i>See Newtownards.</i>
Mount Stewart ..	312/5		Buckingham ..	51 59	0 49W.	II	m.	15 13	Lady Beecham.
Mursley ..	150	4							
Nairn ..	17	1	Nairn ..	57 36	3 52W.	III H.	W.m.	20 29	The Town Clerk.
Nelson ..	244/5	7	Lancashire ..	53 50	2 12W.	III	m.	— —	Medical Officer of Health
Newcastle ..	322	10	Wicklow ..	53 5	6 6W.	II	m.	27 —	The Medical Officer, National Hospital for Consumption.
Newcastle (Hazelhatch, Peamount San.) ..	320	10	Dublin ..	53 19	6 28W.	III	m.	— —	The Superintendent.
Newcastle (Kings Col.) ..	74/5	2	Northumberland ..	54 59	1 37W.	III	m.	— —	G. H. J. Daysh, Esq.
Newport (The Mall) ..	220	5	Isle of Wight ..	50 42	1 18W.	III	m.	15 —	Miss Morey.
Newport (Hospital) ..	269	8	Monmouth ..	51 35	3 0W.	III	m.	15 —	Medical Officer of Health.
Newport ..	152	4	Shropshire ..	52 47	2 25W.	III C.W.	m.	— —	Harper Adams Agricultural College.
Newquay ..	300	8	Cornwall ..	50 25	5 4W.	III H.	M.	25 30	The Urban District Council.
Newton Abbot (Seale-Hayne College) ..	284	8	Devonshire ..	50 33	3 38W.	III C.W.	m.	11 11	The Principal. <i>See Penrith.</i>
Newton Rigg ..	232								H. W. Geddes, Esq., M.A.
Newton Stewart ..	70/8	6	Wigtown ..	54 58	4 29W.	III	m.	— —	
Newtownards (Mount Stewart) ..	312/5	9	Down ..	54 35	5 41W.	(Sunsh. only)	m ₀ .	— —	The Marquess of Londonderry.
Newtownforbes (Castle Forbes Gdns.) ..	314	9	Longford ..	53 46	7 51W.	II	m.	24 —	James Boyle, for the Earl of Granard.
North Berwick (Gas Works) ..	44	1	E. Lothian ..	56 3	2 43W.	III H.	m.	13 13	Town Council.
Norwich (Southwell Lodge) ..	94	3	Norfolk ..	52 37	1 17E.	III	m,W ¹ .	30 25	J. H. Willis, Esq.
,, (Sprawston Church Farm) ..	95	3	Norfolk ..	52 40	1 20E.	III C.W.	m.	11 11	The Director, Norfolk Agricultural Stn.
Nottingham ..	134	4	Nottingham ..	52 56	1 9W.	III	W,M,W ¹ .	30 26	The City Engineer and Surveyor.
Oaken ..	151/1								
Oban ..	52	6	Argyll ..	56 25	5 30W.	II H.	W.m.	— 30	<i>See Codsall.</i>
Onich ..	16	0	Inverness ..	56 43	5 13W.	III	m.	— 12	Burgh Surveyor.
Oundle (School) ..	140	4	Northampton ..	52 29	0 28W.	III	m.	30 20	Forestry Commission (Scotland)
Oxford (Radcliffe Meteorological Station) ..	149	4	Oxford ..	51 46	1 16W.	III	W,M.	30 30	The Headmaster.
Paignton ..	285	8	Devonshire ..	50 26	3 34W.	III H.	m.	21 26	The Reader in Climatology.
Paisley (Coats Obsy.) ..	59	6	Renfrew ..	55 51	4 26W.	II A.	W,m, μ .	30 30	Town Council. (C. Bellinger.)
Parkend ..	163/5	4	Gloucester ..	51 47	2 33W.	III C.W.	m.	— —	Observatory Committee. (J. Woodrow.)
Pendennis Castle ..	297								Forestry Commission.
Penrith (Newton Rigg) ..	232	7	Cumberland ..	54 40	2 47W.	II C.W.	W.m.	30 30	<i>See Falmouth.</i>
Penzance ..	301	8	Cornwall ..	50 7	5 32W.	III H.	d.	25 30	The Cumberland County Council.
Perranporth ..	301/5	8	Cornwall ..	50 20	5 9W.	III	m.	— —	The Town Clerk.
Perth ..	34	1	Perth ..	56 24	3 27W.	III	W ¹ ,m.	30 22	W. Williamson, Esq., for Perranporth Trustees.
Peterborough ..	140/3	4	Northampton ..	52 34	0 14W.	III	—	— —	The Town Council.
,, (P.K. Cres.) ..	140/4	4	Northampton ..	52 35	0 14W.	III	—	— —	G. E. D. Alcock, Esq.
Phoenix Park ..	318								S. N. Eggar, Esq.
Plymouth (The Hoe) ..	286	8	Devonshire ..	50 22	4 8W.	II A.	m,W ¹ , μ .	30 30	<i>See Dublin.</i>
,, (Mount Batten Aero.) ..	287	8	Devonshire ..	50 22	4 8W.	I	D.M.	15 15	The Corporation. (Messrs. G. H. Ivory and Partners.)
Point of Ayre (Lighthouse) ..	71/5	6	Isle of Man ..	54 25	4 22W.	T.A.	D,M, μ .	— —	Meteorological Office.
Poole (Holton Heath R.N. Cordite Factory) ..	274	8	Dorset ..	50 43	2 5W.	II	M.	15 16	Lightkeeper (M.O.).
Poole ..	274/5	8	Dorset ..	50 43	1 59W.	III H.	m.	— —	The Superintendent.
Pontefract (King's School) ..	126	4	Yorkshire (W.R.)	53 42	1 19W.	III	m.	10 —	Medical Officer of Health.
Portland Bill (Lighthouse) ..	275	8	Dorset ..	50 32	2 27W.	T.	D.M.	15 —	The Headmaster.
Portsmouth (W.D. Experimental Stn.) ..	229	5	Wilts ..	51 7	1 42W.	II	m.	15 13	Lightkeeper (M.O.).
Portsmouth (Victoria Pk.) ..	216	5	Hampshire ..	50 48	1 6W.	III H.	d,W ¹ .	25 23	The Superintendent Meteorological Dept.
Prestatyn ..	252/5	7	Flint ..	53 20	3 24W.	III H.	m.	— —	Medical Officer of Health.
Prestwick ..	65/7	6	Ayr ..	55 30	4 37W.	III H.	m.	— —	Clerk to the U.D.C.
Princetown ..	288	8	Devonshire ..	50 33	3 59W.	III	m.	22 —	Burgh Surveyor.
Quilty ..	329/3	10	Clare ..	52 50	9 28W.	A.	μ .	— —	The Governor, H.M. Prison (M.O.).
									Chief Engineer, G.S.Ry., Dublin.

Station.	No.	Dist.	County.	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
Ramsgate ..	192	5	Kent ..	51° 20'	1° 25' E.	III H.	d.	13 23	Borough Engineer.
Rathfarnham Castle ..	321	10	Dublin ..	53° 18'	6° 17' W.	III	m.	— —	The Rev. Father the Rector.
Reading :—				° N.,	° ,				
Shinfield ..	208		Berkshire ..	51° 27'	0° 58' W.	III	m.	30 —	See Shinfield.
University ..	209	5	Berkshire ..	51° 27'	0° 56' W.	III	—	—	Professor J. A. Crowther.
Seed Trial Grounds ..	209/3	5	Berkshire ..	51° 27'	3° 29' W.	III	—	—	A. F. Sutton, Esq.
Redcar ..	81/5	2	Yorkshire (N.R.)	54° 37'	1° 14' W.	III H.	m.	—	The Town Clerk.
Redruth ..	302	8	Cornwall ..	50° 14'	5° 14' W.	III	m.	28 —	A. P. Jenkin, Esq., J.P.
Regent's Park ..	173								See London.
Reefrew (Abbotsinch Aero.) ..	60	6	Renfrew ..	55° 52'	4° 26' W.	I	D,W ¹ ,W,M, μ .	15 15	Meteorological Office.
Rhayader ..	265	8	Radnor ..	52° 18'	3° 31' W.	III	W.M.	16 18	R. Ashton (M.O.).
Rhyl (Sewage Works) ..	253	7	Flint ..	53° 19'	3° 29' W.	III H.	d.m.	25 30	Medical Officer of Health.
Roche's Point ..	333	10	Cork ..	51° 47'	8° 15' W.	T.	D,W,M.	15 —	Miss Roche.
Ross-on-Wye ..	160	4	Hereford ..	51° 55'	2° 35' W.	T.	D,W,M.	16 16	F. J. Parsons (M.O.).
Rothamsted ..	109								See Harpenden.
Rotherham ..	126/5	4	Yorkshire (W.R.) ..	53° 25'	1° 19' W.	III	m.	— —	L. Atkinson, Esq.
Rothesay ..	53	6	Bute ..	55° 50'	5° 2' W.	II	W.M.	30 22	Bute Natural History Society.
Rowlands Gill (Chopwellwood) ..	76	2	Durham ..	54° 55'	1° 47' W.	III	m.	25 25	Forestry Commission.
Rugby (School) ..	147	4	Warwick ..	52° 22'	1° 15' W.	III	m.	29 —	The Headmaster.
Ruthwell ..	70	6	Dumfries ..	55° 0'	3° 26' W.	II	m.	25 26	William Brown, for the Earl of Mansfield.
Ryde ..	221	5	Isle of Wight ..	50° 44'	1° 10' W.	III H.	m.	22 22	Borough Engineer and Surveyor.
St. Abb's Head ..	45/5	1	Berwick ..	55° 55'	2° 8' W.	T.	D,m.	— —	Chief Officer (M.O.).
St. Albans (Hertford Inst. of Agriculture) ..	110	3	Hertford ..	51° 46'	0° 18' W.	III	m.	12 —	The Principal.
St. Andrews ..	39	1	Fife ..	56° 20'	2° 47' W.	III H.	m.	18 23	Burgh Surveyor.
St. Ann's Head (C. Guard Stn.) ..	263	8	Pembroke ..	51° 41'	5° 10' W.	T.	D,W,M.	15 30	Station Officer (M.O.).
St. Catherine's Point (C. Guard Stn.) ..	221/5	5	Isle of Wight ..	50° 35'	1° 17' W.	T.	m.	— —	Chief Coastguard Officer (M.O.).
St. Heliers ..	336								See Jersey.
St. Ives ..	302/5	8	Cornwall ..	50° 14'	5° 51' W.	III H.	d.	— —	Borough Surveyor.
St. James's Park ..	178								See London.
St. Mellion (Ellibrick Exp. Stn.) ..	295/5	8	Cornwall ..	50° 27'	4° 15' W.	III C.W.	m.	— —	The Horticultural Superintendent.
Sandown (Sandham Gdns.) ..	222	5	Isle of Wight ..	50° 39'	1° 9' W.	III H.	m.	27 30	The Town Clerk.
Scarborough ..	82	2	Yorkshire (N.R.) ..	54° 17'	0° 24' W.	III H.	W.M.	25 30	Medical Officer of Health.
Scilly (C Guard Stn.) ..	334	11	Cornwall ..	49° 56'	6° 18' W.	T.A.	D,W,M, μ .	15 30	Station Officer (M.O.).
Seaford ..	203	5	Sussex ..	50° 46'	0° 7' E.	III H.	—	—	The Surveyor.
Sealand (Aerodrome) ..	254	7	Flint ..	53° 13'	3° 0' W.	I	D,W,M, μ .	15 13	Meteorological Office.
Seaton ..	289/5	8	Devon ..	50° 42'	3° 4' W.	III H.	m.	— —	U.D.C. (Lieut.-Col. H. Anderson-Neville)
Selsey ..	203/5	5	Sussex ..	50° 45'	0° 48' W.	III H.	m.	— —	Chamber of Commerce.
Seskin (Carrick-on-Suir) ..	326								See Carrick-on-Suir.
Shaftesbury (C.E. School) ..	276	8	Dorset ..	51° 1	2° 12' W.	III	m.	30 —	The Headmaster (M.O.).
Sheffield (Weston Park) ..	127	4	Yorkshire (W.R.) ..	53° 23'	1° 29' W.	III	W ¹ ,m.	30 30	The Town Clerk.
Shinfield (Univ. Farm) ..	208	5	Berkshire ..	51° 25'	0° 57' W.	III	m.	15 —	Professor J. A. Crowther.
Shoeburyness (New Ranges) ..	116	3	Essex ..	51° 32'	0° 49' E.	I	D,M, μ .	15 17	Meteorological Office.
Shrewsbury ..	154	4	Shropshire ..	52° 43'	2° 43' W.	III H.	M.	18 —	Medical Officer of Health.
Sidmouth ..	290	8	Devonshire ..	50° 41'	3° 14' W.	III H.	m.	30 —	The Borough Surveyor.
Silverton (Killerton) ..	283	8	Devonshire ..	50° 48'	3° 27' W.	III	m.	24 —	Rt. Hon. Sir F. D. Acland, Bart, P.C.
Skallary ..	5								See Barra.
Skegness ..	91	2	Lincolnshire ..	53° 9'	0° 21' E.	III H.	d.m.	25 30	The Surveyor.
Southampton ..	217	5	Hampshire ..	50° 55'	1° 24' W.	II	W.M.	30 30	Director General of Ordnance Survey.
Southend ..	117	3	Essex ..	51° 30'	0° 45' E.	III H.	d.	20 25	The Corporation (Pier Master).
South Farnborough (R.A.E.) ..	218	5	Hampshire ..	51° 17'	0° 45' W.	I	D,M.	15 22	Meteorological Office.
Southgate ..	174/7								See London.
Southport ..	245	7	Lancashire ..	53° 37'	3° 0' W.	II H.A.	d,W,M, μ .	30 30	The Town Clerk.
South Shields (South Pier Works) ..	74/5	2	Durham ..	55° 0'	1° 26' W.	A.	μ .	— —	Tyne Improvement Commission.
Sparkhill ..	144								See Birmingham.
Sprowston ..	95								See Norwich.
Spurn Head (Lighthouse) ..	88	2	Yorkshire (E.R.) ..	53° 34'	0° 7' E.	T.A.	D,W,M, μ .	10 10	Lightkeeper (M.O.).
Stirling (Sauchie House) ..	57	6	Stirling ..	56° 7'	3° 56' W.	III	m.	18 18	The Town Council (John Fyfe).
Stonehaven ..	26	1	Kincardine ..	56° 58'	2° 12' W.	III H.	m.	— —	The Town Council (J. H. Gait).
Stonyhurst (College) ..	246	7	Lancashire ..	53° 51'	2° 28' W.	II	W.M.	30 30	The Director.
Stornoway (C. Guard Lookout) ..	6	0	Hebrides ..	58° 11'	6° 21' W.	T.A.	D,W,M, μ .	15 30	Station Officer (M.O.).
Strachur (Glenbranter) ..	51	6	Argyll ..	56° 8'	5° 3' W.	III	m.	10 —	Forestry Commission (Scotland).
Strathaven (Dungavel) ..	61	6	Lanark ..	55° 37'	4° 8' W.	III	m.	25 —	A. K. Foulis, for the Duke of Hamilton and Brandon.
Strathy (Bowside) ..	8/5	0	Sutherland ..	58° 31'	4° 1' W.	III	m.	— —	D. Sinclair, for J. Edwards Moss, Esq.
Sutton Bonington ..	136	4	Nottingham ..	52° 50'	1° 15' W.	III C.W.	m.	12 11	The Midland Agricultural College.
Swanage ..	276/5	8	Dorset ..	50° 37'	1° 57' W.	III H.	m.	— —	The Clerk to the U.D.C.
Swansea (Victoria Park) ..	268	8	Glamorgan ..	51° 37'	3° 55' W.	III	m.	23 26	The Town Clerk.
Talybont (Lletty-evan-hen) ..	261/5	7	Cardigan ..	52° 27'	3° 59' W.	III C.W.	m.	— —	Professor R. G. Stapleton, M.A.
Taunton ..	273/5	8	Somerset ..	51° 0'	3° 8' W.	II	m.	— —	Major E. P. Kingzett.
Tavistock ..	291	8	Devonshire ..	50° 33'	4° 10' W.	III	m.	24 —	W. J. Monk, Esq.
Tayport ..	40	1	Fife ..	56° 27'	2° 53' W.	III	—	— —	Dundee Harbour Trust (J. Hannay Thomson).

Station.	No.	Dist.	County.	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
Teignmouth (Den Gardens)	292	8	Devonshire	50° 32'	3 29W.	III H.	m.	25 30	G. F. Rossiter, Esq.
Tenby (The Priory)	264	8	Pembroke	51° 40'	4 42W.	III H.	m.	— 30	The Town Clerk.
Terrington	95/3	3	Norfolk	52° 45'	0 18E.	III C.W.	m.	— —	The Headmaster, Terrington C. Sch. for Director of Agricultural Education, Norfolk C.C.
Thetford (Lynford Nursery)	95/5	3	Norfolk	52° 30'	0 41E.	III C.W.	m.	— —	Forestry Commission.
Tintagel	302/7	8	Cornwall	50° 40'	4 45W.	III H.	m.	— —	Trust Houses, Ltd.
Tiree	54	6	Argyll	56° 32'	6 55W.	T.A.	D,M, μ .	10 10	J. MacPhail (M.O.).
Tongland	70/6	6	Kirkudbright	54° 52'	4 2W.	III	—	—	Galloway Water Power Co.
Torquay	293	8	Devonshire	50° 28'	3 31W.	III H.	d,m.	25 30	The Corporation (C. Bellinger).
Totland Bay (Aston House)	223	5	Isle of Wight	50° 41'	1 33W.	III H.	m.	30 30	J. Dover, M.A.
Toones	293/3	8	Devon	50° 27'	3 43W.	III	m.	— —	J. B. Patterson, Esq. See London.
Tottenham	177	6	Ayr	55° 32'	4 40W.	III H.	d,m.	— —	The Town Council (M. S. Brodie, C.E.).
Troon	66	6	Kent	51° 8'	0 16E.	III H.	d,M.	25 30	Medical Officer of Health.
Tunbridge Wells (Calverley Park)	193	5	Ayr	55° 19'	4 50W.	III H.	m.	22 26	J. Alexander, Esq.
Turnberry (Hotel)	67	6	Northumberland	55° 1'	1 25W.	T.	D,M,W ¹ ,	15 —	Station Officer (M.O.).
Tynemouth (C. Guard Stn.)	75	2	Northumberland	55° 1'	1 25W.	(Sunshn. only)	d.	— —	Entertainments and Publicity Officer.
Upper Heyford (Aerodrome)	149/5	4	Oxford	51° 56'	1 15W.	I	D.	— —	Meteorological Office.
Ushaw (College)	79	2	Durham	54° 47'	1 39W.	III	m.	30 —	The Principal.
Usk	270	8	Monmouth	51° 42'	2 55W.	III	m.	11 11	Monmouthshire Agricultural Institution.
Valentia Observatory	329/5	10	Kerry	51° 56'	10 15W.	I	D,W,M,O, μ .	30 30	The Superintendent.
Ventnor (R. Nat. Hospital)	224	5	Isle of Wight	50° 36'	1 13W.	II	M.	30 30	Medical Superintendent.
Ventnor (Park)	224/5	5	Isle of Wight	50° 36'	1 13W.	III H.	d.	— —	Engineer and Surveyor.
Wakefield	128	4	Yorkshire (W.R.)	53° 40'	1 30W.	III	m.	25 20	The Corporation.
Wallasey, New Brighton (Harrison Park)	250	7	Cheshire	53° 26'	3 3W.	III H.	d.	— —	Medical Officer of Health.
Walton-on-Naze	118	3	Essex	51° 51'	1 16E.	III H.	m.	13 15	Engineer and Surveyor.
Warburton	250/7	7	Cheshire	53° 24'	2 26W.	III C.W.	—	—	Chief Agricultural Advisory Officer.
Waterford (Gortmore)	327	10	Waterford	52° 16'	7 7W.	III	W,m.	30 —	Mrs. N. H. White.
Welshpool (County School)	259	7	Montgomery	52° 39'	3 8W.	III	m.	24 —	The Headmaster.
West Kirby	251	7	Cheshire	53° 23'	3 11W.	III	m.	10 —	Canon Eric F. Robson.
West Lavington	229/7	5	Wilts	51° 17'	2 0W.	III	—	—	B. W. H. Coulson, Esq.
West Linton	47	1	Fife	55° 45'	3 21W.	III	m.	28 —	Dr. R. Graham Yooll.
Westminster:—									} See London.
St. James's Park	178								The Medical Officer of Health.
Training College	178								The Town Clerk.
Weston-super-Mare	273/7	8	Somerset	51° 21'	2 59W.	III H.	m.	— 25	The Park Superintendent.
Weymouth (Westham)	277	8	Dorset	50° 36'	2 27W.	III H.	d.	25 30	The Engineer and Surveyor to the U.D.C.
Whitby	83	2	Yorkshire (N.R.)	54° 29'	0 37W.	III H.	—	—	See Manchester.
Whitstable	193/5	5	Kent	51° 22'	1 2E.	III H.	—	—	Station Officer (M.O.).
Whitworth Park	241								See Byfleet.
Wick (C. Guard Stn.)	8	0	Caithness	58° 26'	3 5W.	T.	D,M.	15 —	The Surveyor to the Council.
Wisley	181								Lawes Agricultural Trust.
Withernsea	88/5	2	Yorkshire (E.R.)	53° 44'	0 2E.	III H.	—	—	See Hawick.
Woburn	107	3	Bedford	52° 1'	0 35W.	III C.W.	m.	30 30	The Agricultural Organiser.
Wolfleee	49								Medical Officer of Health.
Worcester (Perdiswell)	157	4	Worcester	52° 13'	2 13W.	III C.W.	m.	10 —	The Principal.
Worthing	205	5	Sussex	50° 49'	0 22W.	III H.	d.	25 30	Medical Officer of Health.
Writley	118/2	3	Essex	51° 44'	0 26E.	III. C.W.	—	—	The Principal.
Wye (S.E. Agric. College)	194	5	Kent	51° 11'	0 57E.	III C.W.	m.	11 11	The Principal.
Yarmouth	96	3	Norfolk	52° 37'	1 43E.	(Sunshn. only)	*	— 28	Medical Officer of Health.
York (Bootham School)	84/5	2	Yorkshire (N.R.)	53° 57'	1 5W.	(Sunshn. only)	W,M,W ¹ .	— 30	The Science Master.
" (Museum)	84	2	Yorkshire (N.R.)	53° 57'	1 5W.	II	{	30 —	The Yorkshire Philosophical Society (Dr. W. L. Collinge, F.L.S.).

*With the exception of sunshine values the data published for Yarmouth in the Daily Weather Report and in the climatological summaries now refer to Gorleston.

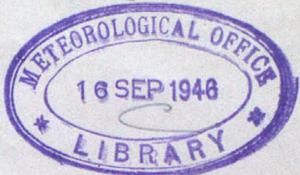
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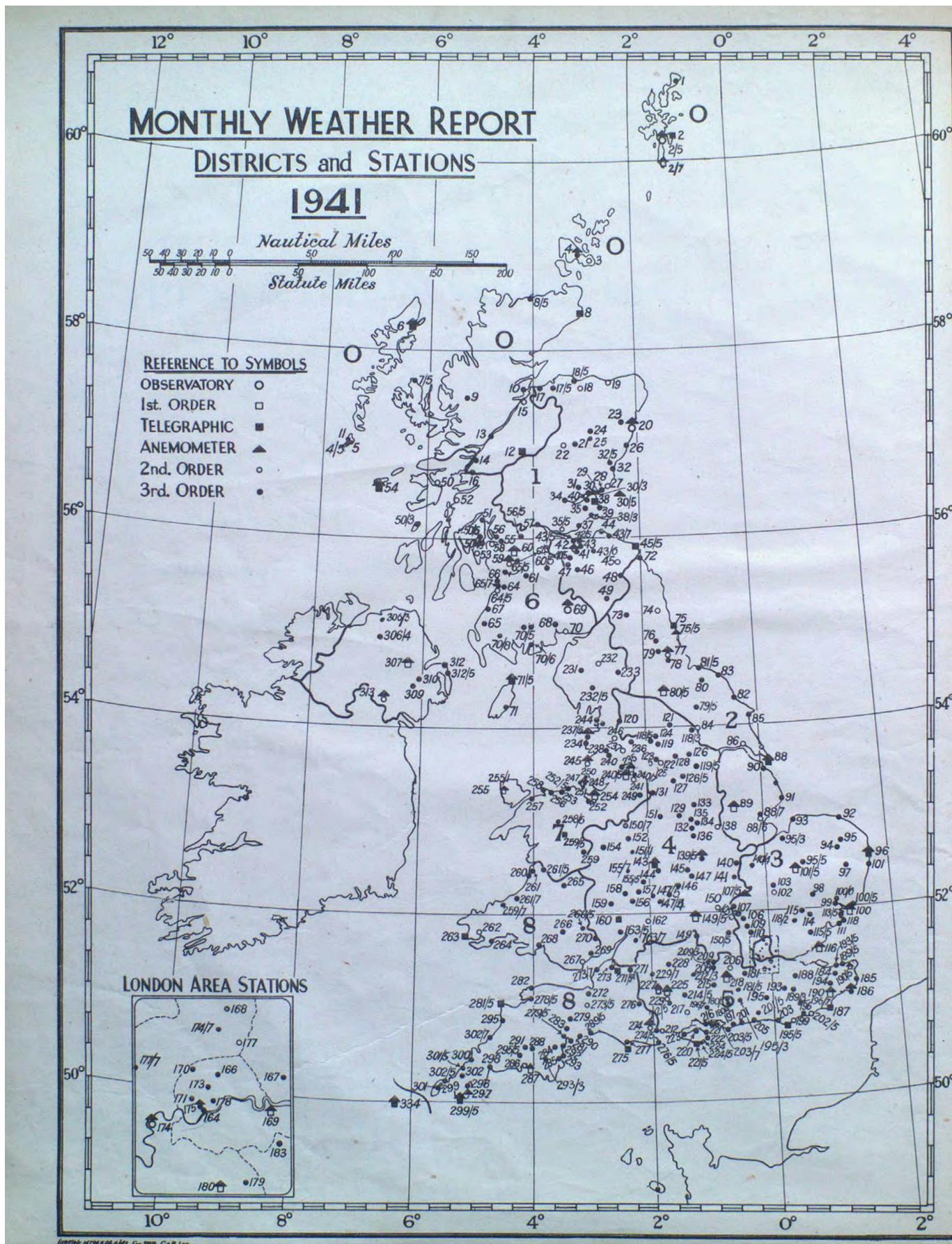
THE
MONTHLY WEATHER REPORT
FOR THE YEAR 1941

PUBLISHED BY THE
AUTHORITY OF THE METEOROLOGICAL
COMMITTEE



LONDON
PRINTED BY HIS MAJESTY'S STATIONERY OFFICE

1942



g.—Table III (a).—Observations of duration of starlight at the Royal Observatory, Greenwich, and at Porton, Wilts., and of cloud and fog by day at Greenwich.

h.—Table III (b).—Direct solar radiation at Kew Observatory.

i.—Table IV, giving summaries of the observations of pressure, temperature, humidity, cloud, visibility and wind, made at set hours. The hours, not being the same for all stations, are indicated in the Table.

Tables III and IV together include the items comprised in the international form of monthly climatological summary, the Form B of the Report of the International Meteorological Committee, 1874; and they give, in addition, information regarding the duration of bright sunshine, earth temperature at 1 foot and 4 feet (both from 1906), the number of observations of wind of force 4-5 and 6-7 on the Beaufort Scale (from 1937), of winds of force 1-3 (from 1923), the number of days of fog (from 1906), the number of observations of different degrees of visibility (from 1923), the numbers of days of ground frost, i.e., minimum temperature on the grass, 30.4°F. and below (from 1908), and the pressure at mean sea level (from 1912).

DISTRICT VALUE STATIONS, 1941

The following are the stations, summaries from which are used for the computation of the district values of temperature, rainfall, earth temperature and sunshine, Table I:—

TR, Temperature and Rainfall: E1, Earth Temperature at 1 foot: E4, Earth Temperature at 4 feet: S, Sunshine.

DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.
0	Fort Augustus ..	TR - - S	4	Birmingham ..	TR E1 E4 S	8	Bath ..	TR E1 E4 S
	Inverness ..	TR - - S		Bradford ..	- E1 E4 -		Cardiff ..	- E1 E4 -
	Kirkwall ..	TR - - S		Bromyard ..	- E1 E4 -		Cullompton ..	TR E1 - S
	Lerwick ..	TR - - S		Buxton ..	- E1 E4 -		Falmouth ..	TR - - S
	Stornoway ..	TR - - S		Harrowgate ..	TR E1 E4 S		Ifracombe ..	- E1 E4 -
				Huddersfield ..	- E1 E4 -		Newquay ..	- E1 E4 -
1	Aberdeen ..	TR - - S		Nottingham ..	TR E1 E4 S		Plymouth ..	- E1 -
	Dundee ..	TR - - S		Oxford ..	TR - - S		Rhayader ..	TR - - S
	Edinburgh ..	TR - - S		Ross-on-Wye ..	TR - - S		St. Ann's Head ..	TR - - S
	Marchmont ..	TR - - S		Sheffield ..	- E1 E4 -		Swansea ..	- E1 E4 -
	Nairn ..	TR - - S						
6	Dumfries ..	TR E1 E4 S	5	Bournemouth ..	- E1 E4 -			
	Eskdalemuir ..	TR - - S		Brighton ..	- E1 E4 -			
	Tiree ..	TR - - S		Camden Square ..	- E1 E4 -			
	Renfrew ..	TR - - S		Eastbourne ..	- E1 E4 -			
	(Abbotsinch) ..	TR - - S		Enfield ..	- E1 E4 -			
	Rothesay ..	TR E1 E4 S		Hastings ..	TR E1 E4 S			
2	Cockle Park ..	TR E1 E4 S		Kew Obs. ..	TR E1 E4 S			
	Cranwell ..	TR - - S		Dover ..	TR E1 E4 -			
	Durham ..	TR - - S		Marlborough ..	TR - - S			
	Hull ..	- E1 E4 -		Southampton ..	TR - - S			
	Scarborough ..	TR - - S		Tunbridge Wells ..	- E1 -			
	York ..	TR E1 E4 S		Wiseley ..	- E1 E4 -			
3	Cambridge ..	TR E1 E4 S	7	Bolton ..	- E1 E4 -			
	Clacton ..	TR E1 E4 S		Burnley ..	- E1 E4 -			
	Lowestoft ..	- E1 E4 -		Darwen ..	- E1 E4 -			
	Norwich ..	- E1 -		Holyhead ..	TR - - S			
	Rothamsted ..	TR - - S		Newton Rigg ..	TR - - S			
	Tottenham ..	TR - E4 S		Sealand ..	TR - - S			
	Yarmouth ..	TR E1 E4 S		Southport ..	TR E1 E4 S			
				Stonyhurst ..	TR - - S			
							Scilly ..	TR - - S

Tiree. The averages of temperature and sunshine refer to the period 1927-1936.

In 1933 it was announced by the Ordnance Survey that in future mean sea level at Newlyn (Cornwall) should be adopted as the standard of reference for heights in the British Isles in place of Liverpool. The heights given in this publication are above the old ordnance datum, but at those stations where the new height would differ from the old height by one foot or more, a correction to obtain the new height is given below. The new heights are not yet adopted in this publication because they cannot in all cases be regarded as final.

Lincoln.	Mablethorpe ..	- 1.2	Essex.	Maldon ..	- 1.8	Kent.	Herne Bay ..	- 1.5
Norfolk.	Terrington ..	- 1.2		Southend ..	- 1.5		Ramsgate ..	- 1.5
Suffolk.	Chadacre ..	- 1.9		Walton-on-Naze ..	- 1.8		Sheerness ..	- 1.5
	Mildenhall ..	- 1.5	Bucks.	Halton ..	- 1.1		Whitstable ..	- 1.5
Essex.	Chelmsford ..	- 1.8	Kent.	Deal ..	- 1.4	Hants.	St. Catherine's Pt. ..	- 1.3
	Dovercourt ..	- 1.8		Goudhurst ..	- 1.2	Dorset.	Weymouth ..	- 1.1

LIST OF STATIONS

A list of the climatological stations of Tables III and IV and of the anemograph stations of Table II is given below where changes have been made in the list for 1940. This list also contains, in italic type, the names of a few stations which contribute regular monthly returns but which do not appear in Tables II, III or IV. For additional information regarding the anemograph stations, reference should be made to the Annual Summary. The positions of the stations are shown in the Frontispiece.

In the Tables of the Monthly Weather Report the stations are arranged according to Districts and Counties. In the list printed herewith the alphabetical order is adopted. The latitude and longitude of each station are given, but not the height, as that is shown in the monthly issues.

Classification of stations.—Stations are classified as follows:—

- I. Normal Meteorological Observatory; Station of the First Order.—Continuous records or hourly readings of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form and motion of the clouds, and notes on the weather. The principal "distributive" stations maintained on aerodromes for supplying information to the Royal Air Force or to civil aviation services are included.

- II. Normal Climatological Station.—Daily observations at least twice a day, generally at 9 h. (9 a.m.) and 21 h. (9 p.m.) G.M.T. of pressure, temperature (wet and dry-bulb), wind, amount of cloud, and weather, with the daily maximum and minimum of temperature, the daily rainfall, and remarks on the weather. Observations of the range of visibility and records of sunshine are commonly obtained at these stations also. In this category are included all the stations of the second order of the International Classification and a few stations of the third order.
- III. Auxiliary Climatological Station, at which observations similar to those of a normal climatological station are made once a day only, generally at 9 h. (9 a.m.) G.M.T. This category includes most of the stations of the third order of the International Classification.
- T. Telegraphic Reporting Station.—Daily observations are made at 7 h. (7 a.m.), 13 h. (1 p.m.) and 18 h. (6 p.m.) G.M.T., similar in general character to those taken at Normal Climatological Stations, and reported to the Office each day by telegraph. At some telegraphic stations an additional observation is made at 1 h. (1 a.m.) G.M.T., and also in some cases at 4 h. (4 a.m.), 10 h. (10 a.m.), 16 h. (4 p.m.) and 22 h. (10 p.m.) G.M.T.
- II C.W.; III C.W. Normal Climatological Station or Auxiliary Climatological Station which is also a Crop Weather Station.—Crop Weather stations are stations which participate in the scheme for the investigation of the relationship between weather and crops inaugurated by the Ministry of Agriculture and the Board of Agriculture for Scotland in co-operation with the Meteorological Office.
- II H.; III H. Normal Climatological Station or Auxiliary Station which is also a Health Resort Station.—These stations normally make special observations at 17 h. (5 p.m.) G.M.T. which are reported to this Office by telegram for communication to the newspaper press. This scheme has lapsed during the war period.
- A.; II A.; III A.; T.A.; Anemometer Station (which may also be a Normal Climatological Station, Auxiliary Station or Telegraphic Station) for which summaries are published in Table II (Autographic Records of Wind) of the Monthly Weather Report.

The publications for which the returns are prepared are indicated by the following letters:—

- | | |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D. Daily Weather Report. Full return. | m. Monthly Weather Report. Table III, not Table IV. |
| d. Daily Weather Report. Abridged return. | μ . Monthly Weather Report. Wind velocity. |
| W. Weekly Weather Report. Temperature, rainfall, in most cases sunshine, and in some cases ground temperature. | m_o . Monthly Weather Report. Sunshine only. |
| w. Weekly Weather Report. Sunshine only. | O. The Observatories' Year Book.—This publication contains hourly values of meteorological and magnetic elements, diurnal inequalities for magnetism and for atmospheric electricity, absolute observations of magnetism and atmospheric electricity, seismological tables, upper air data, etc. |
| W ¹ . Registrar-General's Weekly Summary. | |
| M. Monthly Weather Report. Table III (Temperature extremes, rainfall and weather); and Table IV (Pressure, humidity, &c.). | |

The last published volume of the Weekly Weather Report is that for 1938-39 and of the Observatories' Year Book that for 1937:

AVERAGES.

Rainfall (Table III), Pressure (Table IV).—The averages refer to the period 1881-1915 and are "weighted" if the record is not complete for that period. The averages of rainfall are given in the Book of Normals, Section V.

Temperature and Sunshine (Table III).—The averages in nearly all cases refer to periods of from 10 to 30 years ending 1935. The length of the period for each station is shown in the appropriate column of the List of Stations. Differences from averages of less than 30 years are printed in italics.

The averages are given in the following publications:—

- (1) Averages of Temperature for the British Isles for periods ending 1935 (M.O. 407).
- (2) Averages of Bright Sunshine for the British Isles for periods ending 1935 (M.O. 408).

STANDARDS OF TIME.

Summer Time was in force throughout the year, and Double Summer Time from May 4th to August 10th. Therefore public clocks were one hour and two hours respectively in advance of Greenwich Mean Time. Observers were recommended to make their observations at the same hours by Greenwich Time throughout the year. At nearly all stations this recommendation was adopted, but in a very few cases circumstances made it necessary to adhere to the same hour by clock time. The actual hours of observation are given in Table III of the monthly issues. The stations at which the hours of observation are referred to Local Mean Time are given in the Notes to the Tables I-IV.

SEA-TEMPERATURE.

Returns of sea-temperatures are received by the Meteorological Office from certain ships, lightships and coast stations. The mean temperatures of the seas round the British Isles for the months of the year 1941 are shown by figures within circles on the maps in the monthly issues of this report. In general the values are derived from readings of ships under way, or from light vessels.

MONTHLY WEATHER REPORT, 1941, LIST OF STATIONS—ADDITIONS AND MODIFICATIONS

Station	No.	Dist.	County.	Lat.	Long.	Classification	Publication	Averages (number of years).	Authority.
Aberporth	259/7	8	Cardiganshire	52° N	4° 34' W.	I	—	—	Meteorological Office.
Bala	258/5	7	Merioneth	52° 55'	3° 37' W.	III	m.	—	W. Walker, Esq., Jnr.
Baltasound (Halligarth)	1	0	Shetland	60° 40'	0° 50' W.	III	m.	29 29	T. Edmonton Saxby, Esq., F.R.F.P.S. (Glas.) J.P.
Bramley	212/3	5	Hampshire	51° 19'	1° 3' W.	III	—	—	The Deputy Commander.
Brockenhurst	212/5	5	Hampshire	50° 49'	1° 34' W.	III	—	—	Miss F. T. Ede.
Castercock	306/3	8	Londonderry	55° 10'	6° 46' W.	III	m.	—	E. G. Box, Esq.
Colgate	195/3	5	Sussex	51° 4'	0° 14' W.	III	—	—	J. L. Bennett, Esq.
Carnoustie (Buddon Ness Lighthouse)	29	1	Angus	56° 28'	2° 44' W.	III	—	—	Dundee Harbour Trust.
Dunbar (Public Park)	43/7	1	E. Lothian	56° 0'	2° 31' W.	III H.	m.	—	The Burgh Surveyor.
Dundee (Harbour)	30/3	1	Angus	56° 28'	2° 58' W.	II	—	—	Dundee Harbour Trust.
Dunoon	50/4	6	Argyll	55° 58'	4° 56' W.	III H.	m.	—	Borough Surveyor.
Dunstable	105/5	3	Bedfordshire	51° 53'	0° 33' W.	I	M.	—	The Director.
Farnham (Boundstone)	180/4	5	Surrey	51° 11'	0° 48' W.	III	—	—	A. Hampton Brown, Esq.
Farnham	180/3	5	Surrey	51° 13'	0° 48' W.	III	—	—	A. C. Hunt, Esq.
Ipswich (Belstead Hall)	100/6	3	Suffolk	52° 0'	1° 3' E.	III	m.	—	R. Wilson, Esq.
Lake Vyrnwy	259/5	7	Montgomery	52° 46'	3° 28' W.	III	—	—	Chief Engineer.
Lerwick Observatory	2/5	0	Shetland	60° 8'	1° 11' W.	I	μ.O.W.m.	—	Medical Officer of Health.
Manchester (Ringway)	249/5	7	Cheshire	53° 21'	2° 16' W.	I	D.M.μ.	—	Meteorological Office.
Marchmont	45	1	Berwick	55° 44'	2° 25' W.	III	W.m.	30 30	W. Dryburgh, Esq.
Mettham (Nether End)	125	4	Yorkshire	50° 35'	1° 50' W.	III	—	—	Thunderstorm Census Organisation. (A. Broadbent, Esq.).
Newport	220/1	5	Isle of Wight	50° 43'	1° 17' W.	III	—	—	L/Cpl. Manton, P.G.K.
Oban	52	6	Argyll	56° 25'	5° 30' W.	II H.	m.	—	Burgh Surveyor.
Patcham	201/5	5	Sussex	50° 53'	0° 9' W.	III	—	—	G. B. Hamlin, Esq.
Peebles	46	1	Peebles	55° 39'	3° 11' W.	III	—	—	Borough Surveyor.
Peterborough (Pk. Cres.)	140/4	4	Northamptonshire	52° 35'	0° 14' W.	III	—	—	S. N. Eggar, Esq.
Prestwood	155/7	4	Worcestershire	52° 28'	2° 12' W.	III	m.	—	The Medical Superintendent.
Rounds	141	4	Northamptonshire	52° 20'	0° 31' W.	III	—	—	T. C. Smith, Esq.
Silverton (Killerton)	283	8	Devonshire	50° 48'	3° 27' W.	III	m.	24	Sir R. Dyke Acland, Bart.
Stonehouse	163/7	4	Gloucestershire	51° 46'	2° 17' W.	III	m.	—	B. D. Parkin, Esq.
Stratford-on-Avon (Dodwell Farm)	147/5	4	Warwickshire	52° 11'	1° 44' W.	III C.W.	m.	—	Sir George Stapledon, C.B.E., M.A., F.R.S.
Strelley	135	4	Notts	52° 58'	1° 15' W.	III	—	—	Miss Edge.
Sunbury Head	27	0	Sherland	59° 53'	1° 18' W.	I	—	—	Meteorological Office.
Tarland	25	1	Aberdeen	57° 8'	2° 51' W.	III	—	—	Alex. Davey, Esq.
Thorney Island	203/7	5	Sussex	50° 49'	0° 56' W.	I	M.μ.	—	Meteorological Office.
Tiree	54	6	Argyll	56° 32'	6° 55' W.	T.A.	D.W.M.μ.	10 10	J. Macphail, (M.O.).
Turnberry (Hotel)	67	6	Ayr	55° 19'	4° 50' W.	III H.	m.	22 26	J. C. Ross, Esq.
Valley	255/1	7	Anglesea	53° 16'	4° 32' W.	I	D.W.M.μ.	—	Meteorological Office.
Warburton	259/7	7	Cheshire	53° 24'	2° 26' W.	III C.W.	—	—	Chief Agricultural Advisory Officer.
Wealdstone	177/7	5	Middlesex	51° 35'	0° 20' W.	III	—	—	Kodak, Ltd.
Wick (R.A.F. Station)	8	0	Caithness	58° 27'	3° 5' W.	T.	D.M.	15	Station Officer (M.O.).
Writtle	118/2	3	Essex	51° 44'	0° 26' E.	III C.W.	—	—	The Principal.

Statistics for " Gorleston " have been printed under " Yarmouth ".
From July 1941 Holyhead was replaced by Valley. Holyhead continued as a Station III (m).

For the following Stations Data were published in M.W.R., 1940, but were not included from January, 1941.

Station	No.	Station	No.	Station	No.
Biggin Hill (Aerodrome)	182	Birr Castle	323	Black sod Point	304
Brighton	198	Bristol (Horfield)	161	Bunhill Row	165
Carrick-on-Suir (Seskin)	326	Chadacre	98	Chelmsford (County Gdns.)	112
Copdock	99	Cork (Univ. Coll.)	332	Glasnevin (Botanic Gdns.)	317
Colooney (Markree Castle)	393	Dublin (Trinity Coll.)	319	Foynes	329
Chelsea	164	Hazle Hatch (Newcastle)	320	Gordonstoun	18/3
Dublin (Phoenix Park)	318	Kingstown Harbour	319/5	Llandrindod Wells	264/5
Guernsey (St. Peter Port)	335	Malabarany	305	Margate	191
Jersey (St. Helier)	326	Newtown Forbes	314	Peterborough	140/3
Malin Head	306	Rathfarnham Castle	321	Redruth	302/8
Newcastle (Wicklow)	322	Southend	117	Tayport	40
Quilty	329/3	Withernsea	88/5		
Roche's Point	333				
Valentia Observatory	329/5				

MONTHLY WEATHER REPORT, 1941.—CORRECTIONS AND ADDITIONS.

TABLE I. DISTRICT VALUES.

Month.	District	Earth Temperature at 1 ft. difference from average
February	7. England, N.W. { (& N. Wales)	"	4 ft.	"	"	"	"	"	"	"	-2.2
April	7. England, N.W. { (& N. Wales)	"	1 ft.	"	"	"	"	"	"	"	-2.3
October	7. England, N.W. { (& N. Wales)	"	4 ft.	"	"	"	"	"	"	"	-2.3
Mean o, i, 6		"	1 ft.	"	"	"	"	"	"	"	-1.4
		"	4 ft.	"	"	"	"	"	"	"	+2.7
		"	4 ft.	"	"	"	"	"	"	"	+2.2
		"	4 ft.	"	"	"	"	"	"	"	+1.0

ANNUAL SUMMARY, 1941.

Cleethorpes (Lincoln) the entries under rainfall p.175 should be 653 mm., 25.72 in., 1.53 in. 17 Nov.

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THE
MONTHLY WEATHER REPORT
FOR THE YEAR 1942

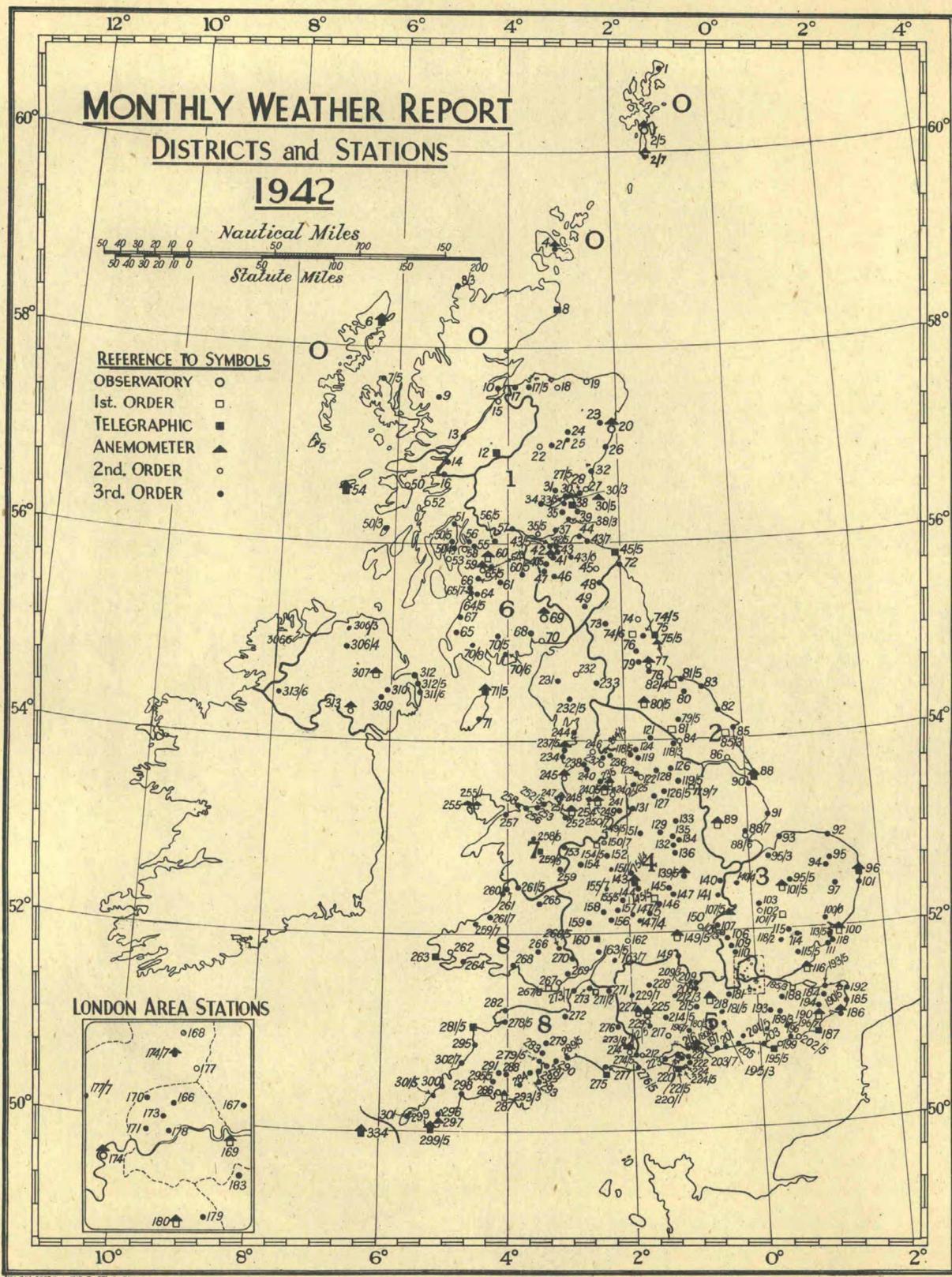
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1943

MWR dup



P R E F A C E

Up to 1921, the Monthly Weather Report was issued as a supplement to the Weekly Weather Report and included in the subscription to the latter. It is now treated as a separate publication. The Report gives a résumé of observations from stations in the British Isles, and takes the place of the summaries printed up to the end of 1907 in Parts II and III of the annual volumes of "Observations at Stations of the Second Order" as well as the former "Monthly Summary" to the Weekly Weather Report. Particulars of the methods adopted in taking the observations are given in the *Meteorological Observer's Handbook*, M.O. 191.

On the establishment of a meteorological service in Eire in April, 1937, the climatological stations in that country came under the control of the Director of that Service, but climatological records for Eire were received and published up to the end of 1940. Data were not received for 1942, but the maps of pressure, temperature and sunshine in this volume have been drawn, from such information as was available from various sources, to give a provisional indication of conditions over Eire.

INFORMATION FOR PREVIOUS YEARS

Monthly summaries of observations made at stations in connexion with the Meteorological Office were first published in 1869 in the "Quarterly Weather Report," a publication issued for each of the years 1869 to 1880. The Monthly Weather Report commenced in 1884. The gap is bridged for telegraphic stations by a supplement to the Daily Weather Report and for other stations by tables in "Observations at Stations of the Second Order." A brief history of the development of the Monthly Weather Report will be found in the 1915 volume. Most of the changes made in later years are indicated in the preface.

GENERAL ARRANGEMENT OF THE REPORT

The arrangement of each issue of the Monthly Weather Report is as follows:—

a.—General remarks on the Weather over the British Islands under a brief heading descriptive of the special characteristics of the month.

b.—Table I.—Summaries for the Districts of the temperature of the air, of earth temperature, of rainfall, and of duration of bright sunshine, based on observations at the "district value" stations. In the absence of data for Eire, Guernsey and Jersey it became necessary in 1940 to replace Districts 9 and 10 by "Northern Ireland" and to replace District 11 by data for Scilly only. The stations from which the district values of temperature and rainfall are computed are indicated in Table III by the symbol ¶ and the corresponding stations for sunshine by the symbol §. A list of these stations is printed below. The stations used in computing the district values of earth temperature are shown on page iv. The method of computations is explained in the "Notes on Table I to IV" printed with the Annual Summary.

c.—Table II.—Summary of autographic records of wind.

All the records are obtained from instruments of the Dines Pressure Tube type.

d.—A plate of four maps showing:—

- i. The monthly distribution of pressure and winds based on observations at telegraphic reporting stations; also the normal distribution of pressure for the month for the period 1881-1915. Isobars are drawn for intervals of 2 millibars or 1 millibar.
- ii. The movements of depressions.
- iii. The distribution of mean temperature over the land and in the coastal waters.
- iv. The distribution of bright sunshine in hours per day.

e.—A full page map showing by means of isohyetal lines the distribution of the month's precipitation. This map is based on data from about 2,000 stations.

f.—Table III, giving for individual stations summaries of the records of extreme and mean air temperature and of earth temperature at 1 foot and 4 feet, rainfall and sunshine, and of weather observations. In the case of air temperature, rainfall and sunshine, differences from average or percentages of average are given when available.

g.—Table III (a).—Observations of duration of starlight at the Royal Observatory, Greenwich, and at Porton, Wilts., and of cloud and fog by day at Greenwich.

h.—Table III (b).—Direct solar radiation at Kew Observatory.

i.—Table IV, giving summaries of the observations of pressure, temperature, humidity, cloud, visibility and wind, made at set hours. The hours, not being the same for all stations, are indicated in the Table.

Tables III and IV together include the items comprised in the international form of monthly climatological summary, the Form B of the Report of the International Meteorological Committee, 1874; and they give, in addition, information regarding the duration of bright sunshine, earth temperature at 1 foot and 4 feet (both from 1906), the number of observations of wind of force 4-5 and 6-7 on the Beaufort Scale (from 1937), of winds of force 1-3 (from 1923), the number of days of fog (from 1906), the number of observations of different degrees of visibility (from 1923), the numbers of days of ground frost, i.e., minimum temperature on the grass, 30.4°F. and below (from 1908), and the pressure at mean sea level (from 1912).

LIST OF STATIONS

A list of the climatological stations of Tables III and IV and of the anemograph stations of Table II is given below where changes have been made in the list for 1941. This list also contains, in italic type, the names of a few stations which contribute regular monthly returns but which do not appear in Tables II, III or IV. For additional information regarding the anemograph stations, reference should be made to the Annual Summary. The positions of the stations are shown in the Frontispiece.

In the Tables of the Monthly Weather Report the stations are arranged according to Districts and Counties. In the list printed herewith the alphabetical order is adopted. The latitude and longitude of each station are given, but not the height, as that is shown in the monthly issues.

Classification of stations.—Stations are classified as follows:—

- I. Normal Meteorological Observatory; Station of the First Order.—Continuous records or hourly readings of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form and motion of the clouds, and notes on the weather. The principal "distributive" stations maintained on aerodromes for supplying information to the Royal Air Force or to civil aviation services are included.
 - II. Normal Climatological Station.—Daily observations at least twice a day, generally at 9 h. (9 a.m.) and 21 h. (9 p.m.) G.M.T. of pressure, temperature (wet and dry-bulb), wind, amount of cloud, and weather, with the daily maximum and minimum of temperature, the daily rainfall, and remarks on the weather. Observations of the range of visibility and records of sunshine are commonly obtained at these stations also. In this category are included all the stations of the second order of the International Classification and a few stations of the third order.
 - III. Auxiliary Climatological Station, at which observations similar to those of a normal climatological station are made once a day only, generally at 9 h. (9 a.m.) G.M.T. This category includes most of the stations of the third order of the International Classification.
 - T. Telegraphic Reporting Station.—Daily observations are made at 7 h. (7 a.m.), 13 h. (1 p.m.) and 18 h. (6 p.m.) G.M.T., similar in general character to those taken at Normal Climatological Stations, and reported to the Office each day by telegraph. At most telegraphic stations an additional observation is made at 1 h. (1 a.m.) G.M.T., and also in some cases at 4 h. (4 a.m.), 10 h. (10 a.m.), 16 h. (4 p.m.) and 22 h. (10 p.m.) G.M.T.
 - II C.W.; III C.W. Normal Climatological Station or Auxiliary Climatological Station which is also a Crop Weather Station.—Crop Weather stations are stations which participate in the scheme for the investigation of the relationship between weather and crops inaugurated by the Ministry of Agriculture and the Board of Agriculture for Scotland in co-operation with the Meteorological Office.
 - II H.; III H. Normal Climatological Station or Auxiliary Station which is also a Health Resort Station.—These stations normally make special observations at 17 h. (5 p.m.) G.M.T. which are reported to this Office by telegram for communication to the newspaper press. This scheme has lapsed during the war period.
 - A.; Anemometer Station for which summaries are published in Table II (Autographic Records of Wind) of the Monthly Weather Report.
- The publications for which the returns are prepared are indicated by the following letters:—
- D. Daily Weather Report. Full return.
 - d. Daily Weather Report. Abridged return.
 - W. Weekly Weather Report. Temperature, rainfall, in most cases sunshine, and in some cases ground temperature. (Last volume published is that for 1938-39).
 - w. Weekly Weather Report. Sunshine only.
 - W¹. Registrar-General's Weekly Summary.
 - M. Monthly Weather Report. Table III (Temperature extremes, rainfall and weather); and Table IV (Pressure, humidity, &c.).
 - m. Monthly Weather Report. Table III, not Table IV.
 - m_o. Monthly Weather Report. Sunshine only.
 - O. The Observatories' Year Book.—This publication contains hourly values of meteorological and magnetic elements, diurnal inequalities for magnetism and for atmospheric electricity, absolute observations of magnetism and atmospheric electricity, seismological tables, upper air data, etc.

DISTRICT VALUE STATIONS, 1942

The following are the stations, summaries from which are used for the computation of the district values of temperature, rainfall, earth temperature and sunshine, Table I:—

TR, Temperature and Rainfall: E1, Earth Temperature at 1 foot: E4, Earth Temperature at 4 feet: S, Sunshine.

DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.
0	Fort Augustus ..	TR - - S	4	Birmingham ..	TR E1 E4 S	8	Bath ..	TR E1 E4 S
	Inverness ..	TR - - S		Bradford ..	- E1 E4 -		Cardiff ..	- E1 E4 -
	Kirkwall ..	TR - - S		Bromyard (2) ..	- E1 E4 -		Cullompton ..	TR E1 - S
	Lerwick ..	TR - - S		Buxton ..	- E1 E4 -		Falmouth ..	TR - - S
	Stornoway ..	TR - - S		Harrogate ..	TR E1 E4 S		Ifracombe ..	- E1 E4 -
1	Aberdeen ..	TR - - S		Huddersfield ..	- E1 E4 -		Newquay ..	- E1 E4 -
	Dundee ..	TR - - S		Nottingham ..	TR E1 E4 S		Plymouth ..	- E1 -
	Edinburgh ..	TR - - S		Oxford ..	TR - - S		Rhayader ..	TR - - S
	Marchmont ..	TR - - S		Ross-on-Wye ..	TR - - S		St. Ann's Head ..	TR - - S
	Nairn ..	TR - - S		Sheffield ..	- E1 E4 -		Swansea ..	- E1 E4 -
6	Dumfries ..	TR E1 E4 S	5	Bournemouth ..	- E1 E4 -			
	Eskdalemuir ..	TR - - S		Camden Square ..	- E1 E4 -			
	Tiree ..	TR - - S		Eastbourne (3) ..	- E1 E4 -			
	Renfrew ..	-		Enfield ..	- E4 -			
	(Abbotsinch) ..	TR - - S		Hastings ..	TR E1 E4 S			
	Rothesay ..	TR E1 E4 S		Kew Obs. ..	TR E1 E4 S			
2	Cockle Park ..	TR E1 E4 S		Dover ..	TR E1 E4 -			
	Cranwell ..	TR - - S		Marlborough ..	TR - - S			
	Durham ..	TR - - S		Southampton ..	TR - - S			
	Hull ..	- E1 E4 -		Tunbridge Wells ..	- E1 -			
	Scarborough ..	TR - - S		Wisley ..	- E1 E4 -			
	York ..	TR E1 E4 S	7	Bolton ..	- E1 E4 -			
3	Cambridge ..	TR E1 E4 S		Burnley ..	- E1 E4 -			
	Clacton (1) ..	TR E1 E4 S		Darwen ..	- E1 E4 -			
	Lowestoft ..	- E1 E4 -		Holyhead ..	TR - - S			
	Norwich ..	- E1 -		Newton Rigg ..	TR - - S			
	Rothamsted ..	TR - - S		Sealand ..	TR - - S			
	Tottenham ..	TR - E4 S		Southport ..	TR E1 E4 S			
	Yarmouth ..	TR E1 E4 S		Stonyhurst ..	TR - - S			
							Scilly ..	TR - - S

(1) Shoeburyness replaced Clacton on Sept. 1st. (2) Bromyard ceased Sept. 30th. (3) Eastbourne ceased March 31st. (4) Donaghadee ceased June 27th (sunshine at Mount Stewart not used after August). (5) Incorporated Sept. 1st.

HEIGHTS OF STATIONS ABOVE MEAN SEA LEVEL

In 1933 it was announced by the Ordnance Survey that in future mean sea level at Newlyn (Cornwall) should be adopted as the standard of reference for heights in the British Isles in place of Liverpool. The heights given in this publication are above the old ordnance datum. At those stations where the new height would differ from the old height by one foot or more, a correction to obtain the new height was given in the Introductions 1939 to 1941. The new heights are not yet adopted in this publication because they cannot in all cases be regarded as final.

ADDITIONAL RECORDS AVAILABLE FOR 1942

Details of some additional records received for 1942 which are not summarised in the Monthly Weather Report:—
(a) Returns on Form 3206 have been received for the hours set out below in addition to those summarised in Table IV:—

Abbotsinch 1	Croydon 10, 16	Manchester 4, 10, 16, 22	St. Abb's Head 1, 4, 7, 10, 13, 16, 18, 22.
Aldergrove 1, 16	Dunstable 4, 10, 16, 22	Manston 10, 16	St. Ann's Head 4, 22
Bristol 4, 10, 16, 22	Felixstowe 10, 16	Mildenhall 4, 10, 16, 22	Sealand 10, 16
Boscombe Down 10, 16	Gorleston 4, 22	Mount Batten 1, 10, 16	Scilly 22
Cape Wrath 1, 7, 13, 18	Leuchars 1	Point of Ayre 1, 4, 10, 16, 22	Portland Bill 4, 10, 16, 22
Catterick 4, 10, 16, 22	Lizard 4, 22	Ross-on-Wye 10, 16, 22	Spurn Head 4, 10, 16, 22
Cranwell 4, 10, 16, 22	Lympne 10, 16	Ross-on-Wye 10, 16, 22	Tynemouth 4, 10, 16, 22
			Upper Heyford 10, 16

(b) For certain stations hourly tabulations for 1942 are available of wind force and direction, rainfall duration and amount and duration of sunshine and the list is given below, where W, R and S stand for hourly values of wind, rainfall and sunshine respectively:—

Abbotsinch W, R, S	Dunstable S	Manchester W, R, S	Sealand W, R, S
Aldergrove W, R, S	Felixstowe R, S	Manston W, R, S	Shoebyness W
Armagh W, R*	Fleetwood *	Mildenhall W, R, S	South Farnborough R, S
Birmingham W	Gorleston W*	Mount Batten R, S	South Shields W
Boscombe Down W, R, S	Holyhead W, R, S*	Pendennis W*	Southgate W
Bristol R, S	Leicester W*	Plymouth W*	Southport *
Cardington W*	Lerwick W, S	Point of Ayre *	Spurn Point *
Catterick W, R, S	Leuchars R, S	Rothamsted S	Thorney Island W, R
Cranwell W, R, S	Lizard W*	St. Ann's Head W	Upper Heyford R
Croydon R, S	Lympne W, R, S	Silky W*	

* Anemograms stored in Meteorological Office (M.O. 3)

The list of stations for which daily analysis of wind force and direction are available appear in Table II.

AVERAGES.

Rainfall (Table III).—The averages refer to the period 1881-1915 and are "weighted" if the record is not complete for that period. The averages of rainfall are given in the Book of Normals, Section V.

Pressure (Table IV).—The averages refer to 7h. G.M.T. for period 1901-1930 and have been "weighted" where necessary.

Temperature and Sunshine (Table III).—The averages in nearly all cases refer to periods of from 10 to 30 years ending 1935. The length of the period for each station is shown in the appropriate column of the List of Stations. Differences from averages of less than 30 years are printed in italics.

The averages are given in the following publications:—

- (1) Averages of Temperature for the British Isles for periods ending 1935 (M.O. 407).
- (2) Averages of Bright Sunshine for the British Isles for periods ending 1935 (M.O. 408).

Earth Temperatures 1ft. and 4ft.—In general the averages cover the period 1911-25.
Tiree. The averages of temperature and sunshine refer to the period 1927-1936.

STANDARDS OF TIME.

Summer Time was in force throughout the year, and Double Summer Time from April 5th to August 9th. Therefore public clocks were one hour and two hours respectively in advance of Greenwich Mean Time. Observers were recommended to make their observations at the same hours by Greenwich Time throughout the year. At nearly all stations this recommendation was adopted, but in a very few cases circumstances made it necessary to adhere to the same hour by clock time. The actual hours of observation are given in Table III of the monthly issues. The stations at which the hours of observation are referred to Local Mean Time are given in the Notes to the Tables I-IV.

SEA-TEMPERATURE.

Returns of sea-temperatures are received by the Meteorological Office from certain ships, lightships and coast stations. The mean temperatures of the seas round the British Isles for the months of the year 1942 are shown by figures within circles on the maps in the monthly issues of this report. In general the values are derived from readings of ships under way, or from light vessels.

Data for the following Stations were published in M.W.R., 1941, but were not included from January, 1942.

Station	No.	Station	No.	Station	No.
Ardingley .. .	195	Halton	150/5	Manchester (Barton) .. .
Calshot (Aerodrome) .. .	213	Herne Bay	189/5	Paignton .. .
Copdock .. .	99	Lerwick (Knab C.G.)	2	Selsey .. .
Craigston .. .	4/5	Logie Coldstone	24	Strathy (Bowside) .. .
Donaghadee (C. Guard Stn.) .. .	312	Lossiemouth	18/5	Wallasey, New Brighton .. .
Folkestone (Isolation Hospital) .. .	189	Mablethorpe	90/5	

Meteorological Office, Air Ministry, London, W.C.2.

MONTHLY WEATHER REPORT, 1942, LIST OF STATIONS—ADDITIONS AND MODIFICATIONS

Regular monthly returns have also been received from the following official stations:—Benbecula (Inverness), Birsay, Birchen Newton (Norfolk), Detling (Kent), Driffield (Yorks., E.R.), Dyce (Aberdeen), Errol (Perth), Finningley (Yorks., W.R.), Invergordon (Ross and Cromarty), Linton-on-Ouse (Yorks N.R.), Lossiemouth (Moray), Montrose Airfield (Angus), Ouston (Northumberland), Penrhos (Caernarvon), Squires Gate (Lancashire), Stradishall (Suffolk), Stranraer (Wigtown), Sullom Voe (Shetland), Thornaby (Yorks., N.R.).

MONTHLY WEATHER REPORT, 1942.—CORRECTIONS AND ADDITIONS.
TABLE I. DISTRICT VALUES.

		TABLE I. DISTRICT VALUES.					
Month	District		Month	District			
Jan.	6 Scotland, W.	Temp. difference ..	-3° 6°	April	2 England, N.E.	Sunshine % of average ..	155
		Rainfall percentage ..	163			" %, possible ..	50
		No. of rain days diff. ..	+1			" Rainfall percentage ..	139
		Sunshine % of average ..	88			No. of rain days diff. ..	+3
		" %, possible ..	13			Temp. difference ..	-0° 6°
		Mean 1, 2, 3, 4, 5, 6 ..	12			Rainfall percentage ..	254
		Mean 2, 3, 4, 5, 7, 8 ..	16			Sunshine % of average ..	100
		Earth temp. 1 ft. diff. ..	+2° 0°			" %, possible ..	39
April	2 England, N.E.	" 4 ft. ..	0° 0°	July	N. Ireland	" %, average ..	97
		Rainfall percentage ..	56			" Earth temp. 4 ft. diff. ..	+0° 9°
		No. of rain days diff. ..	-5				

MONTHLY WEATHER REPORT, 1942—TABLE IV. CORRECTIONS AND ADDITIONS

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THE MONTHLY WEATHER REPORT
FOR THE YEAR 1943

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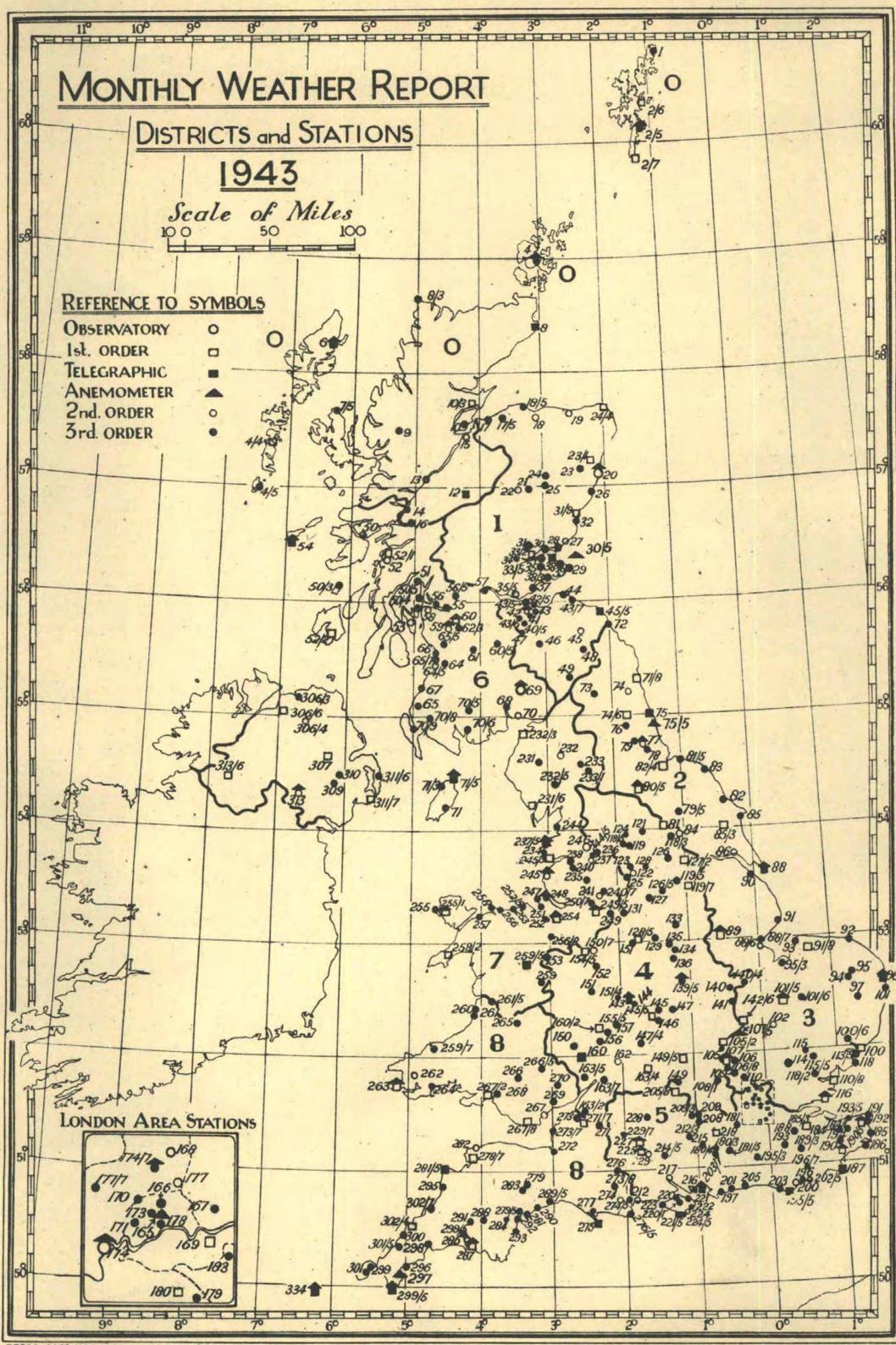


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iii.

P R E F A C E

Up to 1921, the Monthly Weather Report was issued as a supplement to the Weekly Weather Report and included in the subscription to the latter. It is now treated as a separate publication. The Report gives a resumé of observations from stations in the British Isles, and takes the place of the summaries printed up to the end of 1907 in Parts II and III of the annual volumes of "Observations at Stations of the Second Order" as well as the former "Monthly Summary" to the Weekly Weather Report. Particulars of the methods adopted in taking the observations are given in the *Meteorological Observer's Handbook*, M.O. 191.

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All the records are obtained from instruments of the Dines Pressure Tube type.

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- i. The monthly distribution of pressure and winds based on observations at telegraphic reporting stations: also the normal distribution of pressure for the month for the period 1901-1930. Isobars are drawn for intervals of 1 millibar. Previously the normal was for the period 1881-1915.
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LIST OF STATIONS

A list of the climatological stations of Tables III and IV and of the anemograph stations of Table II is given below where changes have been made in the list for 1942. This list also contains, in italic type, the names of a few stations which contribute regular monthly returns but which do not appear in Tables II, III or IV. For additional information regarding the anemograph stations, reference should be made to the Annual Summary. The positions of the stations are shown in the Frontispiece.

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Classification of stations.—Stations are classified as follows:—

- I. Normal Meteorological Observatory; Station of the First Order.—Continuous records or hourly readings of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form and motion of the clouds, and notes on the weather. The principal "distributive" stations maintained on aerodromes for supplying information to the Royal Air Force or to civil aviation services are included.
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- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D. Daily Weather Report. Full return. | m. Monthly Weather Report. Table III, not Table IV. |
| d. Daily Weather Report. Abridged return. | μ . Monthly Weather Report. Wind velocity. |
| w. Weekly Weather Report. Temperature, rainfall, in most cases sunshine, and in some cases ground temperature. (Last volume published is that for 1938-39). | m _s . Monthly Weather Report. Sunshine only. |
| w. Weekly Weather Report. Sunshine only. | O. The Observatories' Year Book.—This publication contains hourly values of meteorological and magnetic elements, diurnal inequalities for magnetism and for atmospheric electricity, absolute observations of magnetism and atmospheric electricity, seismological tables, upper air data, etc. |
| W1. Registrar-General's Weekly Summary. | |
| M. Monthly Weather Report. Table III (Temperature extremes, rainfall and weather); and Table IV (Pressure, humidity, &c.). | |

DISTRICT VALUE STATIONS, 1943

The following are the stations, summaries from which are used for the computation of the district values of temperature, rainfall, earth temperature and sunshine, Table I:—

TR, Temperature and Rainfall: E1, Earth Temperature at 1 foot: E4, Earth Temperature at 4 feet: S, Sunshine.

DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.
o	Fort Augustus ..	TR - - S	4	Birmingham ..	TR E1 E4 S	8	Bath ..	TR E1 E4 S
	Inverness ..	TR - - S		Bradford ..	- E1 E4 -		Cardiff ..	- E1 E4 -
	Kirkwall ..	TR - - S		Buxton ..	- E1 E4 -		Cullompton ..	TR E1 - S
	Lerwick ..	TR - - S		Harrogate ..	TR E1 E4 S		Falmouth ..	TR E1 E4 S
	Stornoway ..	TR - - S		Huddersfield ..	- E1 E4 -		Ifracombe ..	- E1 E4 -
i	Aberdeen ..	TR - - S		Nottingham ..	TR E1 E4 S		Newquay ..	- E1 E4 -
	Dundee ..	TR - - S		Oxford ..	TR - - S		Plymouth ..	- E1 -
	Edinburgh ..	TR - - S		Ross-on-Wye ..	TR - - S		Rhayader ..	TR - - S
	Marchmont ..	TR - - S		Sheffield ..	- E1 E4 -		St. Ann's Head ..	TR - - S
	Nairn ..	TR - - S					Swansea ..	- E1 E4 -
6	Dumfries ..	TR E1 E4 S	5	Camden Square ..	- E1 E4 -			
	Eskdalemuir ..	TR - - S		Enfield ..	- E1 E4 -		NORTHERN IRELAND	
	Tiree ..	TR - - S		Hastings ..	TR E1 E4 S		Aldergrove ..	TR - - S
	Renfrew ..	TR - - S		Kew Obs. ..	TR E1 E4 S		Armagh ..	TR E1 E4 S
	(Abbotsinch) ..	TR - - S		Margate ..	TR E1 E4 S		Moneydig ..	TR - - -
	Rothesay ..	TR E1 E4 S		Marlborough ..	TR - - S		Hillsborough ..	- - - S
2	Cockle Park ..	TR E1 E4 S	7	Southampton ..	TR - - S			
	Cranwell ..	TR - - S		Tunbridge Wells ..	- E1 -			
	Durham ..	TR - - S		Wisley ..	- E1 E4 -			
	Hull ..	- E1 E4 -						
	Scarborough ..	TR - - S		Bolton ..	- E1 E4 -			
	York ..	TR E1 E4 S		Burnley ..	- E1 E4 -			
3	Cambridge ..	TR E1 E4 S		Darwen ..	- E1 E4 -			
	Shoeburyness ..	TR - - S		Holyhead ..	TR - - S			
	Lowestoft ..	- E1 E4 -		Newton Rigg ..	TR - - S			
	Norwich ..	TR E1 - S		Sealand ..	TR - - S			
	Rothamsted ..	TR - - S		Southport ..	TR E1 E4 S			
	Gorleston ..	TR E1 E4 S		Stonyhurst ..	TR - - S		Scilly ..	TR - - S

HEIGHTS OF STATIONS ABOVE MEAN SEA LEVEL

In 1933 it was announced by the Ordnance Survey that in future mean sea level at Newlyn (Cornwall) should be adopted as the standard of reference for heights in the British Isles in place of Liverpool. The heights given in this publication are above the old ordnance datum. At those stations where the new height would differ from the old height by one foot or more, a correction to obtain the new height was given in the Introductions 1939 to 1941. The new heights are not yet adopted in this publication because they cannot in all cases be regarded as final.

ADDITIONAL RECORDS AVAILABLE FOR 1943

Details of some additional records received for 1943 which are not summarised in the Monthly Weather Report:—
(a) Returns on Form 3206 have been received for the hours set out below in addition to those summarised in Table IV:—

Bristol 4, 10, 16, 22	Lizard 4, 22	Portland Bill 4, 10, 16, 22	St. Ann's Head 4, 22
Cranwell 4, 10, 16, 22	Lympne 10, 16	Porton 9, 15	Scilly 22
Croydon 10, 16	Mansion 10, 16	Ringway 4, 10, 16, 22	Spurn Head 4, 10, 16, 22
Dunstable 4, 10, 16, 22	Mildenhall 4, 10, 16, 22	Ross-on-Wye 10, 16, 22	Tynemouth 4, 10, 16, 22
Felixstowe 10, 16	Mount Batten 10, 16	St. Abb's Head 4, 10, 16, 22	Upper Heyford 10, 16
Garleton 4, 22	Point of Ayre 4, 10, 16, 22		

(b) For certain stations hourly tabulations for 1943 are available of wind force and direction, rainfall duration and amount and duration of sunshine, and the list is given below, where W, R and S stand for hourly values of wind, rainfall and sunshine:—

Abbotsinch W, R, S	Falmouth W*, R, S	Lympne W, R, S	Scilly W*
Abingdon R	Felixstowe W, R, S	Manchester W, R, S (Ringway)	Sealand W, R, S
Aldergrove W, R, S	Fleetwood *	Mildenhall W, R, S	Shobdon R
Armagh, W*, R	Fraserburgh R	Mount Batten R, S	Shoeburness W
Birmingham W	Gorleston W*	Pendennis W*	South Farmborough R, S
Boscombe Down W, R, S	Holyhead W, R, S	Peterhead R	South Shields W
Bristol R, S	Kingsway W	Plymouth W*	Southgate W
Cardington W*	Leicester W*	Point of Ayre *	Southport *
Castle Archdale R	Lerwick W, S	Prestwick W	Speke S
Catterick W, R, S	Leuchars R, S	Rothamsted S	Spurn Head *
Cranwell W, R, S	Limavady R	St. Ann's Head W	Thorney Island, W, R
Croydon W, R, S	Little Rissington R		Upper Heyford R
Dunstable W, S	Lizard W*		

* Anemograms stored in Meteorological Office (M.O. 3)

The list of stations for which daily analyses of wind force and direction are available appear in Table II.

AVERAGES.

Rainfall (Table III).—The averages refer to the period 1881-1915 and are "weighted" if the record is not complete for that period. The averages of rainfall are given in the Book of Normals, Section V.

Pressure (Table IV).—The averages refer to 7h. G.M.T. for period 1901-1930 and have been "weighted" where necessary.

Temperature and Sunshine (Table III).—The averages in nearly all cases refer to periods of from 10 to 30 years ending 1935. The length of the period for each station is shown in the appropriate column of the List of Stations. Differences from averages of less than 30 years are printed in italics.

The averages are given in the following publications:—

(1) Averages of Temperature for the British Isles for periods ending 1935 (M.O. 407).

(2) Averages of Bright Sunshine for the British Isles for periods ending 1935 (M.O. 408).

Earth Temperatures 1ft. and 4ft.—In general the averages cover the period 1911-1925.

Tiree. The averages of temperature and sunshine refer to the period 1927-1936.

STANDARDS OF TIME.

Summer Time was in force throughout the year, and Double Summer Time from April 4th to August 14th. Therefore public clocks were one hour and two hours respectively in advance of Greenwich Mean Time. Observers were recommended to make their observations at the same hours by Greenwich Time throughout the year. At nearly all stations this recommendation was adopted, but in a very few cases circumstances made it necessary to adhere to the same hour by clock time. The actual hours of observation are given in Table III of the monthly issues. The stations at which the hours of observation are referred to Local Mean Time are given in the Notes to the Tables I-IV.

SEA-TEMPERATURE.

Returns of sea-temperatures are received by the Meteorological Office from certain ships, lightships and coast stations. The mean temperatures of the seas round the British Isles for the months of the year 1943 are shown by figures within circles on the maps in the monthly issues of this report. In general the values are derived from readings of ships under way, or from light vessels.

Data for the following Stations were published in M.W.R., 1942, but were not included from January, 1943.

Station	No.	Station	No.	Station	No.
Attenborough	132	Carnoustie	29	Mursley	150
Bala	258/5	Cilia Aeron	261/7	Newcastle-on-Tyne	74/5
Biggin Hill	182	Clacton-on-Sea	111	Perranporth	301/5
Bromyard	158	Donaghadee	312	Skallary	5
Cambridge (Univ. Farm)	103	Eastbourne	199	Taunton	273/5
				Thetford	95/5

MONTHLY WEATHER REPORT, 1943—TABLE II. CORRECTIONS AND ADDITIONS

District and Station.	HEIGHT OF VANE			DISTRIBUTION OF WIND						EXTREME VELOCITIES												
	Above Mean S.L. vel	Above Gr'nd	Eff've Height	More than 38 mi/hr.		25 to 38 mi/hr.		13 to 24 mi/hr.		4 to 12 mi/hr.		Less than 4 mi/hr.		No Record	Highest Hourly Wind			Highest Gust				
				Dates of occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration	Duration	Duration		Veer from N	Speed	Hour ended at	Speed	Time			
3. England, E.				ft.	ft.	ft.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	°	m.p.h. m/s	day hr.	m.p.h. m/s	d. h. m				
4. England, S.E.				January	567	55	33	—	0	14	70	396	248	30	0	290	35	16	1 20	70	31 31 10 45	
5. England, S.E.				January	75	65	45	31	1	7	34	217	365	127	0	200	30	17	31 15	60	31 24 05	
				August	222	30	—	—	0	—	9	270	455	10	—	15	7	10 13	31	14	11 10 50	
5b. England, S.W.				July	222	151	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
				June	185	88	65	—	—	—	—	—	—	131	—	—	—	—	—	—	—	
				January	256	65	42	1,10-11, 20, 24-25, 28, 30-31	24	12	108	207	182	151	0	Def.	59	26	9 01	75	33	9 00 55
				May	—	—	—	—	—	113	—	—	—	—	—	—	—	—	—
Scilly Isles				March	230	65	57	—	0	8	75	254	379	45	0	270	33	15	30 23	45	20 30 22 10	
				April	—	0	7	69	237	339	75	0	280	35	16	26 05	53	24 25 21 35	
				May	7-10	36	15	135	348	212	13	0	280	61	27	8 04	84	38 8 03 20	
				Dec.	21	1	18	170	324	229	20	—	210	41	18	21 09	62	28 18 12 35	

The following summaries are omitted from this table: Lizard, July-Dec. (anemometer out of order); Scilly, Oct.-Nov. (anemometer under repair).

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MONTHLY WEATHER REPORT, 1943, LIST OF STATIONS—ADDITIONS AND MODIFICATIONS

Regular monthly returns have also been received from the following official stations:—Ashbourne (Derbyshire), Bishop's Court (Co. Down), Bircham Newton (Norfolk), Bradwell Bay (Essex), Castle Archdale (Fermanagh) Chivenor (Devonshire), Cottesmore (Rutland), Cranfield (Bedfordshire), Detling (Kent), Fairwood Common (Glamorgan), Fraserburgh (Aberdeenshire), Limavady (Londonderry), Little Rissington (Gloucestershire), Penrhos (Caernarvon), Port Ellen (Islay), Shobdon (Herefordshire), Silloth (Cumberland), St. Eval (Cornwall), St. Catherine's Point (Hampshire), Stranraer (Wigtown), Squires Gate (Lancashire), Sullom Voe (Shetland), †West Freugh (Wigtown), Wyton (Huntingdonshire).

* Replaced Catterick, March 10th, 1943.

† Replaced Stranraer, from August 1st, 1943.

MONTHLY WEATHER REPORT, 1943—TABLE IV. CORRECTIONS AND ADDITIONS

Wind frequency summaries prepared according to procedure set out in M.O.O. 2099 from August, 1943 (method adopted in Sept., 1943, in the case of Scottish stations). All data printed under Yarmouth actually refer to Gorleston.

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THE
MONTHLY WEATHER REPORT
FOR THE YEAR 1944

PUBLISHED BY THE
AUTHORITY OF THE METEOROLOGICAL
COMMITTEE

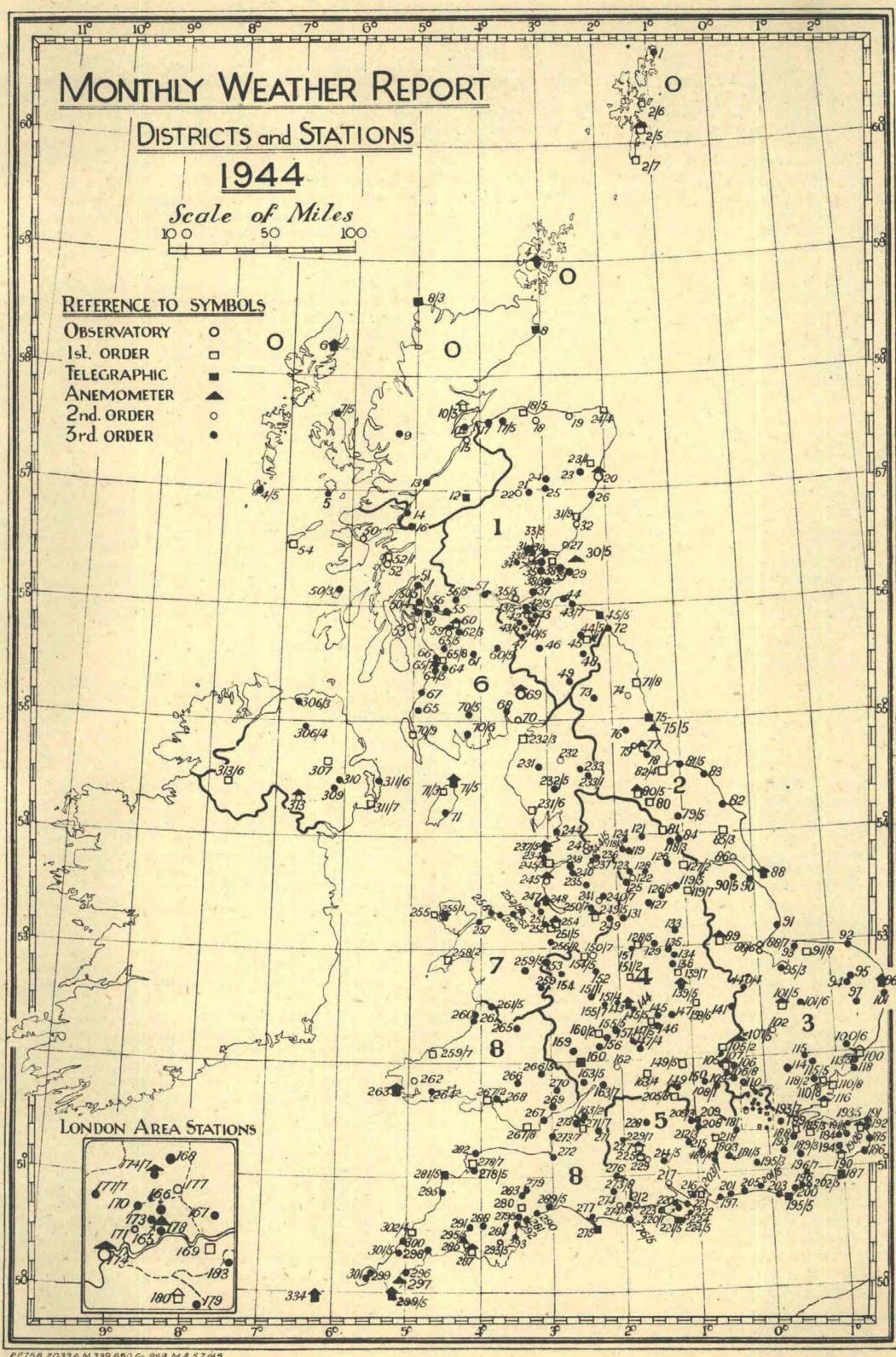


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M.W.R. dup



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In August, 1944, changes were made in the times of observation and in the terminal hours at certain stations.

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b.—Table I.—Summaries for the Districts of the temperature of the air, of earth temperature, of rainfall, and of duration of bright sunshine, based on observations at the "district value" stations. In the absence of data for Eire, Guernsey and Jersey it became necessary in 1940 to replace Districts 9 and 10 by "Northern Ireland" and to replace District 11 by data for Scilly only. The stations from which the district values of temperature and rainfall are computed are indicated in Table III by the symbol \ddagger and the corresponding stations for sunshine by the symbol \S . A list of these stations is printed below. The stations used in computing the district values of earth temperature are shown on page v. The method of computations is explained in the "Notes on Table I to IV" printed with the Annual Summary.

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- The publications for which the returns are prepared are indicated by the following letters:—
- D. Daily Weather Report. Full return.
- d. Daily Weather Report. Abridged return.
- W. Weekly Weather Report. Temperature, rainfall, in most cases sunshine, and in some cases ground temperature. (Last volume published is that for 1938-39).
- w. Weekly Weather Report. Sunshine only.
- W. Registrar-General's Weekly Summary.
- M. Monthly Weather Report. Table III (Temperature extremes, rainfall and weather); and Table IV (Pressure, humidity, &c.).
- m. Monthly Weather Report. Table III, not Table IV.
- μ . Monthly Weather Report. Wind velocity.
- m_o . Monthly Weather Report. Sunshine only.
- O. The Observatories' Year Book.—This publication contains hourly values of meteorological and magnetic elements, diurnal inequalities for magnetism and for atmospheric electricity, absolute observations of magnetism and atmospheric electricity, seismological tables, upper air data, etc.

DISTRICT VALUE STATIONS, 1944

The following are the stations, summaries from which are used for the computation of the district values of temperature, rainfall, earth temperature and sunshine, Table I:—

TR, Temperature and Rainfall: E1, Earth Temperature at 1 foot: E4, Earth Temperature at 4 feet: S, Sunshine.

DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.
o	Fort Augustus ..	TR - - S	4	Birmingham ..	TR E1 E4 S	8	Bath ..	TR E1 E4 S
	Inverness ..	TR - - S		Bradford ..	- E1 E4 -		Cardiff ..	- E1 E4 -
+Kirkwall	TR - - S		Buxton ..	- E1 E4 -		Cullompton ..	TR E1 - S
Lerwick	TR - - S		Harrowgate ..	TR E1 E4 S		Falmouth ..	TR E1 E4 S
Stormont	TR - - S		Huddersfield ..	- E1 E4 -		Ifracombe ..	- E1 E4 -
	TR - - S			Nottingham ..	TR E1 E4 S		Newquay ..	- E1 E4 -
				Oxford ..	TR - - S		Plymouth ..	- E1 -
				Ross-on-Wye ..	TR - - S		Rhayader ..	TR - - S
				Sheffield ..	- E1 E4 -		St. Ann's Head ..	TR - - S
							Swansea ..	- E1 E4 -
1	Aberdeen ..	TR - - S						
	Dundee ..	TR - - S						
	Edinburgh ..	TR - - S						
	Marchmont ..	TR - - S						
	Nairn ..	TR - - S						
6	Dumfries ..	TR E1 E4 S	5	Camden Square ..	- E1 E4 -			
	Eskdalemuir ..	TR - - S			- E1 -			
	Tiree ..	TR - - S						
	Renfrew (Abbotsinch) ..	TR - - S		*Hastings ..	TR E1 E4 S			
	Rothesay ..	TR E1 E4 S		Kew Obs. ..	TR E1 E4 S			
2	Cockle Park ..	TR E1 E4 S		Margate ..	TR E1 E4 S			
	Cranwell ..	TR - - S		Marlborough ..	TR - - S			
	Durham ..	TR - - S		Southampton ..	TR - - S			
	Hull ..	- E1 E4 -		Tunbridge Wells ..	- E1 -			
	Scarborough ..	TR - - S		Wisley ..	- E1 E4 -			
	York ..	TR E1 E4 S	7	Bolton ..	- E1 E4 -			
3	Cambridge ..	TR E1 E4 S		Burnley ..	- E1 E4 -			
	Shoeburyness ..	TR - - S		Darwen ..	- E1 E4 -			
	Lowestoft ..	- E1 E4 -		Holyhead ..	TR - - S			
	Norwich ..	TR E1 - S		Newton Rigg ..	TR - - S			
	Rothamsted ..	TR - - S		Sealand ..	TR - - S			
	Gorleston ..	TR E1 E4 S		Southport ..	TR E1 E4 S			
				Stonyhurst ..	TR - - S			
							Scilly ..	TR - - S

No sunshine values after June.

† Kirkwall not received Feb.-July, District values during these months cover four stations only.

HEIGHTS OF STATIONS ABOVE MEAN SEA LEVEL

In 1933 it was announced by the Ordnance Survey that in future mean sea level at Newlyn (Cornwall) should be adopted as the standard of reference for heights in the British Isles in place of Liverpool. The heights given in this publication are above the old ordnance datum. At those stations where the new height would differ from the old height by one foot or more, a correction to obtain the new height was given in the Introductions 1939 to 1941. The new heights are not yet adopted in this publication because they cannot in all cases be regarded as final.

ADDITIONAL RECORDS AVAILABLE FOR 1944

Details of some additional records received for 1944 which are not summarised in the Monthly Weather Report:—

(a) Returns on Form 3206 have been received for the hours set out below in addition to those summarised in Table IV:—

	<i>Hours</i>	<i>Hours</i>	<i>Hours</i>	<i>Hours</i>	<i>Hours</i>
Bristol	Jan.-July 4, 10, 16, 22	Aug.-Dec. - 9, 15, 21	Mount Batten	Jan.-July 4, 10, 16, 22	Aug.-Dec. 3, 9, 15, 21
Aberporth	" " - - -	" 9, 15, 21	Point of Ayre	" 4, 10, 16, 22	" 3, 9, 15, 21
Cranwell	" " 4, 10, 16, 22	" 3, 9, 15, 21	Portland Bill	" 4, 10, 16, 22	" 3, 9, 15, 21
Croydon	" " 10, 16, -	" 9, 15, 21	Porton	" 9, 15, -	" 9, 15, -
Dunstable	" " 4, 10, 16, 22	" 3, 9, 15, 21	Ringway	" 4, 10, 16, 22	" 3, 9, 15, 21
Felixstowe	" " 10, 16, -	" 9, 15, -	Ross-on-Wye	" 10, 16, 22	" 9, 15, 21
Gorleston	" " 4, - 22	" 3, 9, 15, 21	St. Abb's Head	" 4, 10, 16, 22	" 3, 9, 15, 21
Honiley	" " 4, 10, 16, 22	" 3, 9, 15, 21	St. Ann's Head	" 4, - 22	" 3, - 21
Lizard	" " 4, 10, - 22	" 3, - 21	Scilly	" - 22	" - 21
Lympne	" " 10, 16, -	" 3, - 21	Spurn Head	" 4, 10, 16, 22	" 3, 9, 15, 21
Manston	" " 10, 16, -	" 9, 15, -	Sullom Voe	" 4, 10, 16, 22	" 3, 9, 15, 21
Mildenhall	" " 4, 10, 16, 21	" 3, 9, 15, 21	Tynemouth	" 4, 10, 16, 22	" 3, 9, 15, 21

(b) For certain stations hourly tabulations for 1944 are available of wind force and direction, rainfall duration and amount, and duration of sunshine, and the list is given below where, W, R, and S stand for hourly values of wind, rainfall and sunshine:

Abbotsinch W, R, S	Falmouth W*, R, S	Lympne R, S	Scilly W*
Abingdon R	Felixstowe W, R, S	Manchester (Ringway) W, R, S	Scorton W, R, S
Aldergrove W, R, S	Fleetwood*	Manston W, R, S	Sealand W, R, S
Alness W	Fraserburgh R	Market Harbourough R	Shobdon R
Armagh W*, R	Gorleston W*	Mildenhall W, R, S	Shoeburyness W
Birmingham W	Hawarden S	Mount Batten R, S	South Farnborough R, S
Boscombe Down W, R, S	Holyhead W, R, S	Pendennis W*	South Shields W
Bristol R, S	Kingsway W	Plymouth W*	Southgate W
Cardington W*	Leicester W*	Point of Ayre*	Southport*
Castle Archdale R	Lerwick W, S	Prestwick W	Speke S
Cranwell W, R, S	Leuchars R, S	Rothamsted S	Spurn Head*
Croydon W, R, S	Little Rissington R	St. Ann's Head W	Thorney Island W, R
Dunstable W, R, S	Lizard W*		

* Anemograms stored in Meteorological Office (M.O. 3)

The list of stations for which daily analyses of wind force and direction are available appear in Table II.

AVERAGES.

Rainfall (Table III).—The averages refer to the period 1881-1915 and are “weighted” if the record is not complete for that period. The averages of rainfall are given in the Book of Normals, Section V.

Pressure (Table IV).—The averages refer to 7h. G.M.T. for period 1901-1930 and have been “weighted” where necessary.

Temperature and Sunshine (Table III).—The averages in nearly all cases refer to periods of from 10 to 30 years ending 1935. The length of the period for each station is shown in the appropriate column of the List of Stations. Differences from averages of less than 30 years are printed in italics.

The averages are given in the following publications:—

- (1) Averages of Temperature for the British Isles for periods ending 1935 (M.O. 407).
- (2) Averages of Bright Sunshine for the British Isles for periods ending 1935 (M.O. 408).

Earth Temperatures 1ft. and 4ft.—In general the averages cover the period 1911-1925.

Tiree. The averages of temperature and sunshine refer to the period 1927-1936.

STANDARDS OF TIME.

Summer Time was in force throughout the year, and Double Summer Time from April 2nd to Sept. 17th. Therefore public clocks were one hour and two hours respectively in advance of Greenwich Mean Time. Observers were recommended to make their observations at the same hours by Greenwich Time throughout the year. At nearly all stations this recommendation was adopted, but in a very few cases circumstances made it necessary to adhere to the same hour by clock time. The actual hours of observation are given in Table III of the monthly issues. The stations at which the hours of observation are referred to Local Mean Time are given in the Notes to the Tables I-IV.

SEA-TEMPERATURE.

Returns of sea-temperatures are received by the Meteorological Office from certain ships, lightships and coast stations. The mean temperatures of the seas round the British Isles for the months of the year 1944 are shown by figures within circles on the maps in the monthly issues of this report. In general the values are derived from readings of ships under way, or from light vessels.

Data for the following Stations were published in M.W.R., 1943, but were not included from January, 1944.

Station	No.	Station	No.	Station	No.
Benbecula	4/4	Invergordon	10/3	Stradishall	101/7
Bridlington	85	Newton Stewart	70/8	Tintagel	302/7
Castleton	80	Ouston	74/6	Tottenham	177
Detling	185/3	Port Ellen	52/2	Upper Heyford	149/5

MONTHLY WEATHER REPORT, 1944, LIST OF STATIONS—ADDITIONS AND MODIFICATIONS

Station	No.	Dist.	County	Lat.	Long.	Classification	Publication	Averages (number of years).	Authority.
				° N	°			Temp. Sunshine	
Abingdon	205/8	5 ✓	Berkshire	51 41	1 19W.	I	M.	— — —	Meteorological Office.
Alness*	10/3	0 ✓	Ross & Cromarty	57 41	4 15W.	I	M.	— — —	Meteorological Office.
Aylesbury (County Farm)	150	3 ✓	Buckinghamshire	51 47	0 47W.	III	—	— — —	Bucks. W.A.E.C.
Bircham Newton	91/8	2 ✓	Norfolk	52 52	0 40E.	I	m.	— — —	Meteorological Office.
Bishop's Court	311/7	NI x	Co. Down	54 19	5 34W.	I	m.	— — —	Meteorological Office.
Blandford (East St.)	273/8	8b ✓	Dorsetshire	50 51	2 10W.	III	m.	— — —	R. Biddulph, Esq.
Brough Sowerby	233/1	7a ✓	Westmorland	54 31	2 19W.	III	m.	— — —	H. B. Smith-Cresswell, Esq.
Castle Archdale	313/6	NI ✓	Fermanagh	54 29	7 43W.	I	M.	— — —	Meteorological Office.
Cranfield	105/2	3 ✓	Bedfordshire	52 4	0 37W.	I	m.	— — —	Meteorological Office.
Fairwood Common	267/2	8a ✓	Glamorgan	51 38	3 58W.	I	m.	— — —	Meteorological Office.
Fraserburgh	24	1 ✓	Aberdeen	57 40	1 50W.	I	M.	— — —	Meteorological Office
Hankham	200	5 ✓	Sussex	50 49	0 18E.	III	m.	— — —	A. E. Moon, Esq.
Hawarden	251/5	7b ✓	Flint	53 11	2 59W.	I	M.	— — —	Meteorological Office.
King's Langley (Rucklers Lane)	108/1	3 ✓	Hertfordshire	51 43	0 27W.	III	m.	— — —	H. Dennett, Esq.
Leeming	80	2 ✓	Yorkshire (N.R.)	54 18	1 32W.	I	M.	— — —	Meteorological Office.
Little Rissington	163/4	4 ✓	Gloucestershire	51 52	1 42W.	I	M.	— — —	Meteorological Office.
Lossiemouth Airfield	181/5	1 ✓	Moray	57 43	3 20W.	I	M.	— — —	Meteorological Office.
Penicuik	43/6	1 ✓	Midlothian	55 50	3 13W.	III	m.	— — —	Dr. J. J. Baldwin.
Penrhos	258/2	7b ✓	Carnarvon	52 52	4 29W.	I	M.	— — —	Meteorological Office.
Preston (Old Vicarage)	191/5	5 ✓	Kent	51 17	1 14E.	III	m.	— — —	J. H. Dyson, Esq.
Prestwick (Airport)	65/8	6a ✓	Ayr	55 31	4 36W.	I	m.†	— — —	Meteorological Office.
Shobdon	160/2	4 ✓	Herefordshire	52 14	2 53W.	I	m.	— — —	Meteorological Office.
Silloth	232/3	7a ✓	Cumberland	54 52	2 23W.	I	m.	— — —	Meteorological Office.
Santon Downham	101/6	3 ✓	Norfolk	52 27	0 40E.	III	m.	— — —	Forestry Commission.
St. Eval	302/4	8b ✓	Cornwall	50 28	4 59W.	I	m.	— — —	Meteorological Office.
Squire's Gate	245/3	7a ✓	Lancashire	53 46	3 2W.	I	M.	— — —	Meteorological Office.
Sullom Voe	2/6	0 ✓	Shetland	60 26	1 15W.	I	m.	— — —	Meteorological Office.
West Freugh	70/9	6a ✓	Wigtown	54 51	4 57W.	I	m.	— — —	Meteorological Office.
Whipsnade Park	106/8	3 ✓	Bedfordshire	51 52	0 33W.	III	m.	— — —	Zoological Society.
Wilmington (Glasshouse Demonstration Stn.)	193/7	5 ✓	Kent	51 23	0 11E.	III	—	— — —	Kent Education Committee.
Wrexham	256/8	7b ✓	Denbigh	53 3	2 59W.	III	m.	— — —	S. E. Ashmore, Esq.

* Replaced Invergordon March 24th.

† Table IV only.

Regular monthly returns have also been received from the following official stations:—Acklington (Northumberland), Ashbourne (Derbyshire), Bradwell Bay (Essex), Chivenor (Devonshire), Charter Hall (Berwick), Exeter (Devonshire), Jurby (Isle of Man), Lichfield (Staffordshire), Market Harborough (Leicestershire), Millom (Cumberland), Oban Airfield (Argyll), Snaith (Yorkshire), West Malling (Kent), Wymeswold (Leicestershire).

MONTHLY WEATHER REPORT, 1944—TABLE II. CORRECTIONS AND ADDITIONS

District and Station.	HEIGHT OF VANE			DISTRIBUTION OF WIND								EXTREME VELOCITIES							
	Above Mean S.L'vel	Above Gr'nd	Eff've Height	More than 38 mi/hr.		25 to 38 mi/hr.		13 to 24 mi/hr.		4 to 12 mi/hr.		Less than 4 mi/hr.		No Record	Highest Hourly Wind				
				Dates of occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration	Duration	Duration	Veer from N	Speed	Hour ended at	Speed	Time	
6a. Scotland, W. Tiree	ft.	ft.	ft.	—	hr.	9	73	377	245	25	9	300	37	17	26 09	62	28	26 06 55	
3. England, E. Dunstable	75	50	42	—	—	—	73	267	220	63	—	—	—	—	—	—	—	—	
" " "	February	—	—	—	—	—	5	41	322	277	56	0	270	34	15	3 18	57	25	3 11 50
" " "	March	—	—	—	—	2	14	231	367	132	0	300	36	16	15 { 13	58	26	13 12 50	
" " "	May	—	—	—	—	2	7	201	392	144	0	250	31	14	2 16	64	29	2 15 20	
" " "	November	—	—	—	—	8	59	287	323	42	9	220	38	17	5 11	66	29	5 21 05	
" " "	December	—	—	—	—	7	34	251	347	96	16	170	32	14	17 { 03	61	27	17 02 45	
8b. England, S.W. Plymouth	March	—	—	—	—	—	—	—	—	—	—	—	—	33	15	13 15	53	24	13 14 20
" " "	April	—	—	—	—	—	—	—	—	—	—	—	—	41	18	24 21	58	26	7 15 20
" " "	November	—	—	17, 19	8	13	101	166	343	92	10	—	44	20	17 { 04	56	25	17 02 35	
Pendennis Castle	May	—	—	—	—	5	37	137	378	178	14	280	35	16	2 15	43	19	5 09 35	
Scilly Isles St. Mary's	July	—	—	—	—	10	68	319	275	43	39	250	31	14	26 15	44	20	9 11 45	
" " "	January	—	—	22-25	56	15	174	412	95	7	0	310	52	23	5 13	74	33	25 12 10	
" " "	February	—	—	—	0	19	228	355	102	11	0	310	38	17	3 08	55	25	4 09 50	
" " "	March	—	—	—	0	3	23	333	349	36	3	310	30	13	13 { 08	41	18	13 03 00	

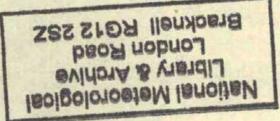
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M.O. 471

METEOROLOGICAL OFFICE



THE
MONTHLY WEATHER REPORT
FOR THE YEAR
1945

PUBLISHED BY THE
AUTHORITY OF THE METEOROLOGICAL
COMMITTEE

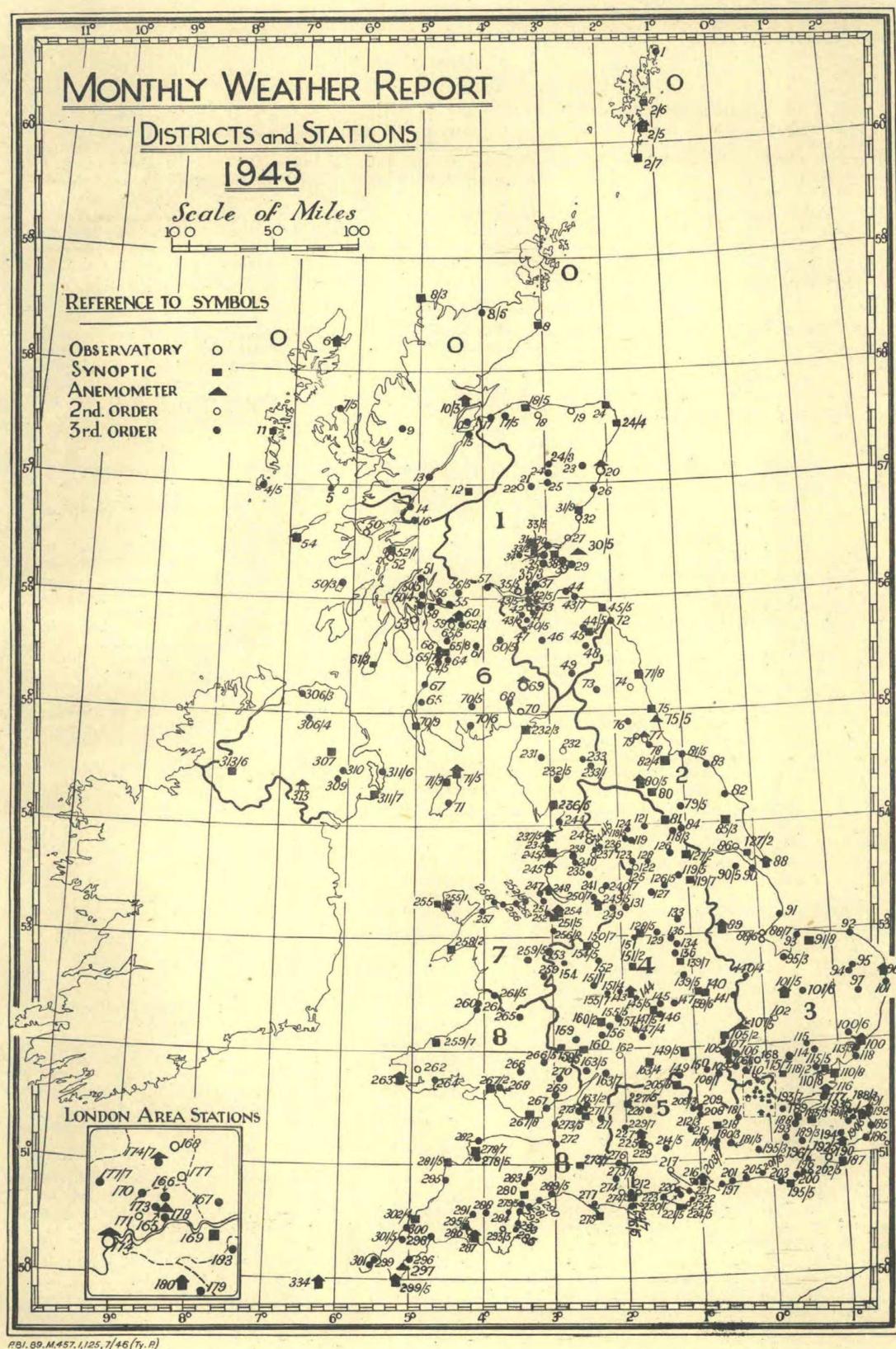


LONDON

HIS MAJESTY'S STATIONERY OFFICE

1946

MWR dup



P R E F A C E

Up to 1921, the Monthly Weather Report was issued as a supplement to the Weekly Weather Report and included in the subscription to the latter. It is now treated as a separate publication. The Report gives a résumé of observations from stations in the British Isles, and takes the place of the summaries printed up to the end of 1907 in Parts II and III of the annual volumes of "Observations at Stations of the Second Order" as well as the former "Monthly Summary" to the Weekly Weather Report. Particulars of the methods adopted in taking the observations are given in the *Meteorological Observer's Handbook*, M.O. 191.

On the establishment of a meteorological service in Eire in April, 1937, the climatological stations in that country came under the control of the Director of that Service, but climatological records for Eire were received and published up to the end of 1940. Data were not received for 1944, but the maps of pressure, temperature and sunshine in this volume have been drawn, from such information as was available from various sources, to give a provisional indication of conditions over Eire.

INFORMATION FOR PREVIOUS YEARS

Monthly summaries of observations made at stations in connexion with the Meteorological Office were first published in 1869 in the "Quarterly Weather Report," a publication issued for each of the years 1869 to 1880. The Monthly Weather Report commenced in 1884. The gap is bridged for telegraphic stations by a supplement to the Daily Weather Report and for other stations by tables in "Observations at Stations of the Second Order." A brief history of the development of the Monthly Weather Report will be found in the 1915 volume. Most of the changes made in later years are indicated in the preface.

GENERAL ARRANGEMENT OF THE REPORT

In January, 1945, changes were made in the times of observation and in the terminal hours at certain stations.

The arrangement of each issue of the Monthly Weather Report is as follows:—

a.—General remarks on the Weather over the British Islands under a brief heading descriptive of the special characteristics of the month.

b.—Table I.—Summaries for the Districts of the temperature of the air, of earth temperature, of rainfall, and of duration of bright sunshine, based on observations at the "district value" stations. In the absence of data for Eire, Guernsey and Jersey it became necessary in 1940 to replace Districts 9 and 10 by "Northern Ireland" and to replace District 11 by data for Scilly only. The stations from which the district values of temperature and rainfall are computed are indicated in Table III by the symbol ¶ and the corresponding stations for sunshine by the symbol §. A list of these stations is printed below. The stations used in computing the district values of earth temperature are shown on page v. The method of computations is explained in the "Notes on Table I to IV" printed with the Annual Summary.

c.—Table II.—Summary of autographic records of wind.

All the records are obtained from instruments of the Dines Pressure Tube type.

d.—A plate of four maps showing:—

- i. The monthly distribution of pressure and winds at 9 h., based on observations at selected stations; also the average distribution of pressure at 9 h. for the month for the period 1901-1930. The monthly pressure map is based on data for 9 h.
- ii. The movements of depressions.
- iii. The distribution of mean temperature over the land and in the coastal waters.
- iv. The distribution of bright sunshine in hours per day.

e.—A full page map showing by means of isohyetal lines the distribution of the month's precipitation. This map is based on data from about 2,000 stations.

f.—Table III, giving for individual stations summaries of the records of extreme and mean air temperature and of earth temperature at 1 foot and 4 feet, rainfall and sunshine, and of weather observations. In January, 1945, at certain stations the period covered by the maximum readings was changed from 6-18 to 9-21; the period covered by the minimum readings was changed from 18-6 to 21-9, and the rainfall day was changed from 6-6 to 9-9. In the case of air temperature, rainfall and sunshine, differences from average or percentages of average are given when available.

g.—Table III (a).—Observations of duration of starlight at the Royal Observatory, Greenwich, and at Porton, Wilts., and of cloud and fog by day at Greenwich.

h.—Table III (b).—Direct solar radiation at Kew Observatory.

i.—Table IV, giving summaries of the observations of pressure, temperature, humidity, cloud, visibility and wind, made at set hours. The hours, not being the same for all stations, are indicated in the Table. At certain stations the hours of observation were changed from 0, 6, 12 and 18 h. to 3, 9, 15 and 21 h. in January, 1945.

Tables III and IV together include the items comprised in the international form of monthly climatological summary, the Form B of the Report of the International Meteorological Committee, 1874; and they give, in addition, information regarding the duration of bright sunshine, earth temperature at 1 foot and 4 feet (both from 1906), the number of observations of wind of force 4-5 and 6-7 on the Beaufort Scale (from 1937), of winds of force 1-3 (from 1923), the number of days of fog (from 1906), the number of observations of different degrees of visibility (from 1923), the number of days of ground frost, i.e., minimum temperature on the grass, 30.4°F. and below (from 1908), and the pressure at mean sea level (from 1912).

LIST OF STATIONS

A complete list of the climatological stations in Tables III and IV and of the anemograph stations in Table II has not been published since 1940 owing to war restrictions. A list of the stations in Tables III and IV where changes have been made in 1945 is given on page vii. The stations printed in italics send in monthly returns but do not appear in the report. For information regarding the anemograph stations, reference should be made to the Annual Summary. The positions of the stations are shown in the Frontispiece.

In the Tables of the Monthly Weather Report the stations are arranged according to Districts and Counties. In the list printed herewith the alphabetical order is adopted. The latitude and longitude of each station are given, but not the height, as that is shown in the monthly issues.

Classification of stations.—Stations are classified as follows:—

- I. Normal Meteorological Observatory; Station of the First Order.—Continuous records or hourly readings of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form and motion of the clouds, and notes on the weather. Observatories and the principal synoptic stations maintained on aerodromes for supplying information to the Royal Air Force or to civil aviation services are included.
 - II. Normal Climatological Station.—Daily observations at least twice a day, generally at 9 h. (9 a.m.) and 21 h. (9 p.m.) G.M.T. of pressure, temperature (wet and dry-bulb), wind, amount of cloud, and weather, with the daily maximum and minimum of temperature, the daily rainfall, and remarks on the weather. Observations of the range of visibility and records of sunshine are commonly obtained at these stations also. In this category are included all the stations of the second order of the International Classification and a few stations of the third order.
 - III. Auxiliary Climatological Station, at which observations similar to those of a normal climatological station are made once a day only, generally at 9 h. (9 a.m.) G.M.T. This category includes most of the stations of the third order of the International Classification.
 - T. Telegraphic Reporting Station.—Daily observations are reported at 3 h., 9 h., 15 h. and 21 h., similar in general character to those taken at Normal Climatological Stations. At most telegraphic stations, observations are also made at 0 h., 6 h., 12 h. and 18 h., G.M.T.
 - II C.W.; III C.W. Normal Climatological Station or Auxiliary Climatological Station which is also a Crop Weather Station.—Crop Weather stations are stations which participate in the scheme for the investigation of the relationship between weather and crops inaugurated by the Ministry of Agriculture and the Board of Agriculture for Scotland in co-operation with the Meteorological Office.
 - II H.; III H. Normal Climatological Station or Auxiliary Station which is also a Health Resort Station.—These Stations normally make special observations at 17 h. (5 p.m.) G.M.T. which are reported to this Office by telegram for communication to the newspaper press. This scheme has lapsed during the war period.
 - A.; Anemometer Station for which summaries are published in Table II (Autographic Records of Wind) of the Monthly Weather Report.
- The publications for which the returns are prepared are indicated by the following letters:—
- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D. Daily Weather Report. Full return. | m. Monthly Weather Report. Table III, not Table IV. |
| d. Daily Weather Report. Abridged return. | μ. Monthly Weather Report. Wind velocity. |
| W. Weekly Weather Report. Temperature, rainfall, in most cases sunshine, and in some cases ground temperature. (Last volume published is that for 1938-39). | m _o . Monthly Weather Report. Sunshine only. |
| w. Weekly Weather Report. Sunshine only. | O. The Observatories' Year Book.—This publication contains hourly values of meteorological and magnetic elements, diurnal inequalities for magnetism and for atmospheric electricity, absolute observations of magnetism and atmospheric electricity, seismological tables, upper air data, etc. |
| W ¹ . Registrar-General's Weekly Summary. | |
| M. Monthly Weather Report. Table III (Temperature extremes, rainfall and weather); and Table IV (Pressure, humidity, &c.). | |

DISTRICT VALUE STATIONS, 1945

The following are the stations, summaries from which are used for the computation of the district values of temperature, rainfall, earth temperature and sunshine, Table I:—

TR, Temperature and Rainfall: E1, Earth Temperature at 1 foot: E4, Earth Temperature at 4 feet: S, Sunshine.

DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.
0	Fort Augustus ..	TR - - S	4	Birmingham ..	TR E1 E4 S	8	Bath ..	TR E1 E4 S
	Inverness ..	TR - - S		Bradford ..	- E1 E4 -		Cardiff ..	- E1 E4 -
	Wick ..	TR - - -		Buxton ..	- E1 E4 -		Cullompton ..	TR E1 - - S
	Lerwick ..	TR - - S		Harrogate ..	TR E1 E4 S		Falmouth ..	TR E1 E4 S
	Stornoway ..	TR - - S		Huddersfield ..	- E1 E4 -		Ifracombe ..	- E1 E4 -
1	Aberdeen ..	TR - - S		Nottingham ..	TR E1 E4 S		†Newquay ..	- E1 E4 -
	Dundee ..	TR - - S		Oxford ..	TR - - S		Plymouth ..	- E1 - -
	Edinburgh ..	TR - - S		Ross-on-Wye ..	TR - - S		Rhayader ..	TR - - S
	Marchmont ..	TR - - S		Sheffield ..	- E1 E4 -		St. Ann's Head ..	TR - - S
	Nairn ..	TR - - S					Swansea ..	- E1 E4 -
6	Dumfries ..	TR E1 E4 S	5	Camden Square ..	- E1 E4 -			
	Eskdalemuir ..	TR - - S		Enfield ..	- E1 E4 -		NORTHERN IRELAND	
	Tiree ..	TR - - S		Kew Obs. ..	TR E1 E4 S		Aldergrove ..	TR - - S
	Renfrew ..	TR - - S		Margate ..	TR E1 E4 S		Armagh ..	TR E1 E4 S
	*Abbotsinch ..	TR - - S		Marlborough ..	TR - - S		Moneydig ..	TR - - -
	Rothesay ..	TR E1 E4 S		Southampton ..	TR - - S		Hillsborough ..	- - - S
2	Cockle Park ..	TR E1 E4 S		Tunbridge Wells ..	- E1 - -			
	Cranwell ..	TR - - S		Wisley ..	- E1 E4 -			
	Durham ..	TR - - S	7	Bolton ..	- E1 E4 -			
	Hull ..	- E1 E4 -		Burnley ..	- E1 E4 -			
	Scarborough ..	TR - - S		†Darwen ..	- E1 E4 -			
	York ..	TR E1 E4 S		Holyhead ..	TR - - S			
3	Cambridge ..	TR E1 E4 S		Newton Rigg ..	TR - - S			
	Shoeburyness ..	TR - - S		Sealand ..	TR - - S			
	Lowestoft ..	- E1 E4 -		Southport ..	TR E1 E4 S			
	Norwich ..	TR E1 - S		Stonyhurst ..	TR - - S			
	Rothamsted ..	TR - - S					Scilly ..	TR - - S
	Gorleston ..	TR E1 E4 S						

* Abbotsinch transferred to Renfrew Oct. 23rd.

† No earth temps. after May.

‡ No earth temps. before June.

HEIGHTS OF STATIONS ABOVE MEAN SEA LEVEL

In 1933 it was announced by the Ordnance Survey that in future mean sea level at Newlyn (Cornwall) should be adopted as the standard of reference for heights in the British Isles in place of Liverpool. The heights given in this publication are above the old ordnance datum. At those stations where the new height would differ from the old height by one foot or more, a correction to obtain the new height was given in the Introductions 1939 to 1941. The new heights are not yet adopted in this publication because they cannot in all cases be regarded as final and as the whole area has not yet been re-surveyed.

ADDITIONAL RECORDS AVAILABLE FOR 1945

Details of some additional records received for 1945 which are not summarised in the Monthly Weather Report:—
(a) Returns on Form 3206 have been received for the hours set out below in addition to those summarised in Table IV:—

	Hours		Hours		Hours		Hours
Aberporth	.., 6, 12, 18	Birmingham	.., 6, 12, 18	Lymyne	.., 6, 12, 18	Ross on Wye	.., 6, 12, 18
Bristol	.., 6, 12, 18	Exeter	.., 6, 12, 18	Mildenhall	.., 6, 12, 18	Ringway	.., 6, 12, 18
Cranwell	.., 6, 12, 18	Gorleston	.., 6, 12, 18	Mount Batten	.., 6, 12, 18	Spurn Head	.., 6, 12, 18
Dunstable	.., 6, 12	Larkhill	.., 12	Point of Ayre	.., 6, 12, 18	St. Ann's Head	.., 6, 12, 18
Croydon	.., 6	The Lizard	.., 6, 12, 18	Portland Bill	.., 6, 12, 18	Tynemouth	.., 6, 12, 18

(b) For certain stations hourly tabulations for 1945 are available of wind force and direction, rainfall duration and amount, and duration of sunshine, and the list is given below where, W, R, and S stand for hourly values of wind, rainfall and sunshine:

Abbotsinch W, R, S	Falmouth S	Lizard W*	Scilly W*
Abingdon R, W	Felixstowe W, R, S	Lymyne W, R, S	Sealand W, R, S
Aldergrove W, R, S	Fleetwood*	Manchester (Ringway) W, R, S	Shobdon R
Alness W	Gorleston W*	Manston W, R, S	Shoeburyness W
Armagh W*, R	Hawarden S	Market Harborough R	South Farnborough R, S
Birmingham W	Holyhead W*, R, S	Mildenhall W, R, S	South Shields W
Boscombe Down W, R, S	Kingsway W	Mount Batten R, S	Southgate W
Bristol R, S	Leeming R, S	Pendennis W*	Southport*
Cardington W*	Leicester W*	Point of Ayre*	Speke S
Castle Archdale R	Lerwick W, S	Prestwick W	Spurn Head*
Cranwell W, R, S	Leuchars R, S	Rothamsted S	Thornaby W
Croydon W, R, S	Linton-on-Ouse W	St. Ann's Head W*	Thorney Island W, R
Dunstable W, R, S	Little Rissington R		

* Anemograms stored in Meteorological Office (M.O.3)

The list of stations for which daily analyses of wind force and direction are available appear in Table II.

AVERAGES.

Rainfall (Table III).—The averages refer to the period 1881-1915 and are “weighted” if the record is not complete for that period. The averages of rainfall are given in the Book of Normals, Section V.

Pressure (Table IV).—The averages refer to 9h. G.M.T. for period 1901-1930 and have been “weighted” where necessary.

Temperature and Sunshine (Table III).—The averages in nearly all cases refer to periods of from 10 to 30 years ending 1935. The length of the period for each station is shown in the appropriate column of the List of Stations. Differences from averages of less than 30 years are printed in italics.

The averages are given in the following publications:—

- (1) Averages of Temperature for the British Isles for periods ending 1935 (M.O. 407).
- (2) Averages of Bright Sunshine for the British Isles for periods ending 1935 (M.O. 408).

Earth Temperatures 1ft. and 4ft.—In general the averages cover the period 1911-1925.

Tiree. The averages of temperature and sunshine refer to the period 1927-1936.

STANDARDS OF TIME.

Summer Time was in force from Jan. 1st—Oct. 6th, and Double Summer Time from April 2nd to July 15th. Public clocks were one hour and two hours respectively in advance of Greenwich Mean Time. From Oct. 6th all clocks referred to Greenwich Mean Time. Observers were recommended to make their observations at the same hours by Greenwich Mean Time throughout the year. At nearly all stations this recommendation was adopted, but in a very few cases circumstances made it necessary to adhere to the same hour by clock time. The actual hours of observation are given in Table III of the monthly issues. The stations at which the hours of observation are referred to Local Mean Time are given in the Notes to the Tables I-IV.

SEA-TEMPERATURE.

Returns of sea-temperatures are received by the Meteorological Office from certain ships lightships and coast stations. The mean temperatures of the seas round the British Isles for the months of the year 1945 are shown by figures within circles on the maps in the monthly issues of this report. In general the values are derived from readings of ships under way, or from light vessels.

MONTHLY WEATHER REPORT, 1945, LIST OF STATIONS—ADDITIONS AND MODIFICATIONS

Station	No.	Dist.	County	Lat.	Long.	Classification	Publication	Averages (number of years).	Authority.
Acklington ..	71/8	2 ✓	Northumberland	° N 18	° 39W.	I	M.	— —	Meteorological Office.
Aylesbury (County Farm)	150	3 ✓	Buckinghamshire	51 47	° 47W.	III	m.	— —	Bucks. W.A.E.C.
Ashbourne ..	128/5	4 ✓	Derbyshire	53 0	° 42W.	I	m.	— —	Meteorological Office.
Elinstone (Court Farm)	188/3	5 ✓	Kent ..	51 17	° 14E.	III	—	— —	J. B. Henderson, Esq.
Charter Hall ..	44/5	1 ✓	Berwick	55 43	° 23W.	I	M.	— —	Meteorological Office.
Chivenor ..	278/7	8b	Devonshire	53 °	° 43W.	I	m.	— —	Meteorological Office.
Desborough *	140	4 ✓	Northampton	52 28	° 48W.	I	m.	— —	Meteorological Office.
Hankham † ..	200	5 ✓	Sussex	50 49	° 18E.	III	m.	— —	A. E. Moon, Esq.
Lichfield ..	151/2	4 ✓	Stafford	52 43	° 47W.	I	m.	— —	Meteorological Office.
Logie (Coldstone School) † ..	24/3	1 ✗	Aberdeen	57 8	° 55W.	III	m.	— —	The Director, of Education.
Market Harborough	139/6	4 ✓	Leicestershire	52 30	° 57W.	I	m.	— —	Meteorological Office.
Paignton (Victoria Park) † ..	285	8b	Devonshire	50 26	° 34W.	III	—	— —	The Town Clerk.
Peterhead (a)	24/4	1 ✗	Aberdeen	57 31	° 53W.	I	M.	— —	Meteorological Office.
Prestwick Airport ..	65/8	6a	Ayr ..	55 31	° 36W.	I	M.	— —	Meteorological Office.
Rye ..	192/5	5 ✓	Kent ..	50 58	° 48E.	II	m.	— —	Meteorological Office.
Snaith ..	127/2	4 ✗	Yorkshire	53 41	° 05W.	I	M.	— —	Meteorological Office.
Strathy ..	8/5	5 ✗	Sutherland	58 31	° 1W.	III	—	— —	J. Edwards Moss, Esq.
Southend (The Cliffs) † ..	117	3 ✗	Essex ..	51 30	° 45E.	III	—	25 30	The Piermaster.
Wilmington (Glass-house Demonstr'n Stn.) ..	193/7	5	Kent ..	51 23	° 11E.	III	m.	— —	Kent Education Committee.

* Replaced Market Harborough in September.

† " Tarland in August.

‡ Stations restarted.

(a) Replaced Fraserburgh.

Regular monthly returns have also been received from the following official stations:—Bradwell Bay (Essex), Exeter (Devonshire), Jurby (Isle of Man), Donibristrie (Fife), Lyneham (Wiltz.), Machrihanish (Argyll), Madley (Hereford), North Weald (Essex), West Malling (Kent), Wymeswold (Leicestershire), Yeovilton (Somerset).

MONTHLY WEATHER REPORT, 1945—TABLE II. CORRECTIONS AND ADDITIONS

Month	District and Station	DISTRIBUTION OF WIND								EXTREME VELOCITIES								Highest Hourly Wind				
		More than 38 mi/hr.		25 to 38 mi/hr.		13 to 24 mi/hr.		4 to 12 mi/hr.		Less than 4 mi/hr.		No Record		Highest Hourly Wind				Highest Gust				
		No. of days	Dates of occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration	Duration	Direction and Speed	Hour ended at	Speed	m.p.h.	m.s.	month	day	hr.	m.p.h.	m.s.	d. h. m.
April	8b. Lizard	1	1	4	12	77	413	182	41	3	220	42	19	April	1	22	60	27	28 21 00	
May	Lizard	0	0	—	8	44	285	343	66	6	220	30	13	May	31	15	58	26	31 12 25	
June	3. Dunstable	0	—	0	2	3	231	415	68	3	260	26	12	June	12	18	49	22	7 17 00	
August	3. Gorleston	0	—	0	2	14	144	545	41	0	30	29	13	Aug.	10	12	42	19	10 13 10	
September	8b. Pendennis	0	—	0	5	51	187	353	153	0	280	42	19	Aug.	22	08	60	27	22 06 50	
December	8b. Pendennis	0	—	0	3	10	55	336	412	29	4	330	30	13	Sept.	24	18	51	23	24 17 30
	7b. Holyhead	2	21—22	3	10	55	336	238	85	3	280	42	19	Sept.	22	03	53	24	22 02 35	
		0	—	0	11	87	397	220	40	0	150	36	16	18	04	18	04	64	29	18 07 15		

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M.O. 474

THE
MONTHLY WEATHER REPORT
FOR THE YEAR

1946

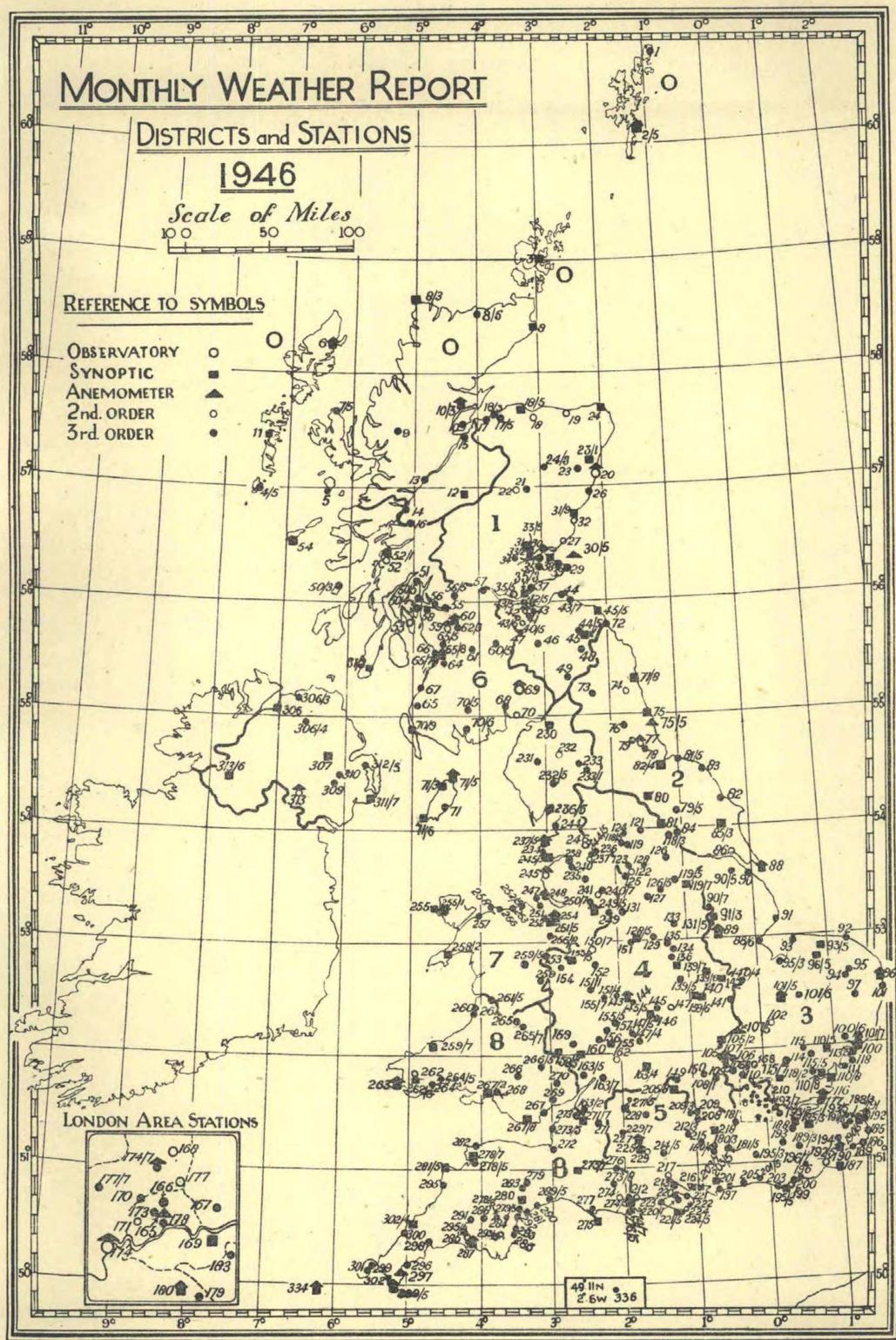
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COMMITTEE



LONDON
HIS MAJESTY'S STATIONERY OFFICE

1947

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P R E F A C E

Up to 1921, the Monthly Weather Report was issued as a supplement to the Weekly Weather Report and included in the subscription to the latter. It is now treated as a separate publication. The Report gives a résumé of observations from stations in the British Isles, and takes the place of the summaries printed up to the end of 1907 in Parts II and III of the annual volumes of "Observations at Stations of the Second Order" as well as the former "Monthly Summary" to the Weekly Weather Report. Particulars of the methods adopted in taking the observations are given in the *Meteorological Observer's Handbook*, M.O. 191.

On the establishment of a meteorological service in Eire in April, 1937, the climatological stations in that country came under the control of the Director of that Service, but climatological records for Eire were received and published up to the end of 1940. Data were not received for 1946, but the maps of pressure, temperature and sunshine in this volume have been drawn, from such information as was available from various sources, to give a provisional indication of conditions over Eire.

INFORMATION FOR PREVIOUS YEARS

Monthly summaries of observations made at stations in connexion with the Meteorological Office were first published in 1869 in the "Quarterly Weather Report," a publication issued for each of the years 1869 to 1880. The Monthly Weather Report commenced in 1884. The gap is bridged for telegraphic stations by a supplement to the Daily Weather Report and for other stations by tables in "Observations at Stations of the Second Order." A brief history of the development of the Monthly Weather Report will be found in the 1915 volume. Most of the changes made in later years are indicated in the preface.

GENERAL ARRANGEMENT OF THE REPORT

In January, 1945, changes were made in the times of observation and in the terminal hours at certain stations.

The arrangement of each issue of the Monthly Weather Report is as follows:—

a.—General remarks on the Weather over the British Islands under a brief heading descriptive of the special characteristics of the month.

b.—Table I.—Summaries for the Districts of the temperature of the air, of earth temperature, of rainfall, and of duration of bright sunshine, based on observations at the "district value" stations. In the absence of data for Eire, Guernsey and Jersey it became necessary in 1940 to replace Districts 9 and 10 by "Northern Ireland" and to replace District 11 by data for Scilly only. The stations from which the district values of temperature and rainfall are computed are indicated in Table III by the symbol \ddagger and the corresponding stations for sunshine by the symbol \S . A list of these stations is printed below. The stations used in computing the district values of earth temperature are shown on page v. The method of computations is explained in the "Notes on Table I to IV" printed with the Annual Summary.

c.—Table II.—Summary of autographic records of wind.

All the records are obtained from instruments of the Dines Pressure Tube type.

d.—A plate of four maps showing:—

- i. The monthly distribution of pressure and winds at 9 h., based on observations at selected stations; also the average distribution of pressure at 9 h. for the month for the period 1901-1930. The monthly pressure map is based on data for 9 h.
- ii. The movements of depressions.
- iii. The distribution of mean temperature at sea level over the land and in the coastal waters.
- iv. The distribution of bright sunshine in hours per day.

e.—A full page map showing by means of isohyetal lines the distribution of the month's precipitation. This map is based on data from about 2,000 stations.

f.—Table III, giving for individual stations summaries of the records of extreme and mean air temperature and of earth temperature at 1 foot and 4 feet, rainfall and sunshine, and of weather observations. In January, 1945, at certain stations the period covered by the maximum readings was changed from 6-18 to 9-21; the period covered by the minimum readings was changed from 18-6 to 21-9, and the rainfall day was changed from 6-6 to 9-9. In the case of air temperature, rainfall and sunshine, differences from average or percentages of average are given when available.

g.—Table III (a).—Observations of duration of starlight at the Royal Observatory, Greenwich, and at Porton, Wilts., and of cloud and fog by day at Greenwich.

h.—Table III (b).—Direct solar radiation at Kew Observatory.

i.—Table IV, giving summaries of the observations of pressure, temperature, humidity, cloud, visibility and wind, made at set hours. The hours, not being the same for all stations, are indicated in the Table. At certain stations the hours of observation were changed from 0, 6, 12 and 18 h. to 3, 9, 15 and 21 h. in January, 1945.

Tables III and IV together include the items comprised in the international form of monthly climatological summary, the Form B of the Report of the International Meteorological Committee, 1874; and they give, in addition, information regarding the duration of bright sunshine, earth temperature at 1 foot and 4 feet (both from 1906), the number of observations of wind of force 4-5 and 6-7 on the Beaufort Scale (from 1937), of winds of force 1-3 (from 1923), the number of days of fog (from 1906), the number of observations of different degrees of visibility (from 1923), the number of days of ground frost, i.e., minimum temperature on the grass, 30.4°F. and below (from 1908), and the pressure at mean sea level (from 1912).

LIST OF STATIONS

A complete list of the climatological stations in Tables III and IV and of the anemograph stations in Table II is being published this year for the first time since 1940. The stations printed in italics send in monthly returns but do not appear in the report. For information regarding the anemograph stations, reference should be made to the Annual Summary. The positions of the stations are shown in the Frontispiece.

In the Tables of the Monthly Weather Report the stations are arranged according to Districts and Counties. In the list printed herewith the alphabetical order is adopted. The latitude and longitude of each station are given, but not the height, as that is shown in the monthly issues.

Classification of stations.—Stations are classified as follows:—

- I. Normal Meteorological Observatory; Station of the First Order.—Continuous records or hourly readings of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form and motion of the clouds, and notes on the weather. Observatories and the principal synoptic stations maintained on aerodromes for supplying information to the Royal Air Force or to civil aviation services are included.
 - II. Normal Climatological Station.—Daily observations at least twice a day, generally at 9 h. (9 a.m.) and 21 h. (9 p.m.) G.M.T. of pressure, temperature (wet and dry-bulb), wind, amount of cloud, and weather, with the daily maximum and minimum of temperature, the daily rainfall, and remarks on the weather. Observations of the range of visibility and records of sunshine are commonly obtained at these stations also. In this category are included all the stations of the second order of the International Classification and a few stations of the third order.
 - III. Auxiliary Climatological Station, at which observations similar to those of a normal climatological station are made once a day only, generally at 9 h. (9 a.m.) G.M.T. This category includes most of the stations of the third order of the International Classification.
 - T. Telegraphic Reporting Station.—Daily observations are reported at 3 h., 9 h., 15 h. and 21 h., similar in general character to those taken at Normal Climatological Stations. At most telegraphic stations, observations are also made at 0 h., 6 h., 12 h. and 18 h., G.M.T.
 - II C. W.; III C.W. Normal Climatological Station or Auxiliary Climatological Station which is also a Crop Weather Station.—Crop Weather stations are stations which participate in the scheme for the investigation of the relationship between weather and crops inaugurated by the Ministry of Agriculture and the Board of Agriculture for Scotland in co-operation with the Meteorological Office.
 - II H.; III H. Normal Climatological Station or Auxiliary Station which is also a Health Resort Station.—These Stations normally make special observations at 17 h. (5 p.m.) G.M.T. which are reported to this Office by telegram for communication to the newspaper press. This scheme has lapsed during the war period.
 - A.; Anemometer Station for which summaries are published in Table II (Autographic Records of Wind) of the Monthly Weather Report.
- The publications for which the returns are prepared are indicated by the following letters:—
- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D. Daily Weather Report. Full return. | m. Monthly Weather Report. Table III, not Table IV. |
| W. Weekly Weather Report. Temperature, rainfall, in most cases sunshine, and in some cases ground temperature. (Last volume published is that for 1938-39). | μ . Monthly Weather Report. Wind velocity. |
| W ¹ . Registrar-General's Weekly Summary. | m _o . Monthly Weather Report. Sunshine only. |
| M. Monthly Weather Report. Table III (Temperature extremes, rainfall and weather); and Table IV (Pressure, humidity, &c.). | O. The Observatories' Year Book.—This publication contains hourly values of meteorological and magnetic elements, diurnal inequalities for magnetism and for atmospheric electricity, absolute observations of magnetism and atmospheric electricity, seismological tables, upper air data, etc. |

DISTRICT VALUE STATIONS, 1946

The following are the stations, summaries from which are used for the computation of the district values of temperature, rainfall, earth temperature and sunshine, Table I:—

TR, Temperature and Rainfall: E1, Earth Temperature at 1 foot: E4, Earth Temperature at 4 feet: S, Sunshine.

DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.
o	Fort Augustus . .	TR - - S	4	Birmingham . .	TR E1 E4 S	8	Bath . .	TR E1 E4 S
	Inverness . .	TR - - S		Bradford . .	- E1 E4 -		Cardiff . .	- E1 E4 -
	Wick . .	TR - - -		Buxton . .	- E1 E4 -		Cullompton . .	TR E1 - S
	Lerwick . .	TR - - S		Harrrogate . .	TR E1 E4 S		Palmouth . .	TR E1 E4 S
	Stornoway . .	TR - - S		Huddersfield . .	- E1 E4 -		Ilfracombe . .	- E1 E4 -
I	Aberdeen . .	TR - - S		Nottingham . .	TR E1 E4 S		Plymouth . .	- E1 -
	Dundee . .	TR - - S		Oxford . .	TR - - S		Rhayader . .	TR - - S
	Edinburgh . .	TR - - S		Ross-on-Wye . .	TR - - S		St. Ann's Head . .	TR - - S
	Marchmont . .	TR - - S		Sheffield . .	- E1 E4 -		Swansea . .	- E1 E4 -
6	Dumfries . .	TR E1 E4 S	5	Camden Square . .	- E1 E4 -			
	Eskdalemuir . .	TR - - S		Enfield . .	- E1 E4 -		NORTHERN IRELAND	
	Tiree . .	TR - - S		Kew Obs. . .	TR E1 E4 S		Aldergrove . .	TR - - S
	Renfrew . .	TR - - S		Margate . .	TR E1 E4 S		Armagh . .	TR E1 + E4 S
	Rothesay . .	TR E1 E4 S		Marlborough . .	TR - - S		Moneygig . .	TR - - -
2	Cockle Park . .	TR E1 E4 S		Southampton . .	TR - - S		Hillsborough . .	- - - S
	Cranwell . .	TR - - S		Tunbridge Wells . .	- E1 -			
	Durham . .	TR - - S		Wisley . .	- E1 E4 -			
	Hull . .	- E1 E4 -						
	Scarborough . .	TR - - S	7	Bolton . .	- E1 E4 -			
	York . .	TR E1 E4 S		Burnley . .	- E1 E4 -			
3	Cambridge . .	TR E1 E4 S		† Darwen . .	- E1 E4 -			
	Shoeburyness . .	TR - - S		Holyhead . .	TR - - S			
	Lowestoft . .	- † E1 E4 -		Newton Rigg . .	TR - - S			
	Norwich . .	TR E1 - S		* Sealand . .	TR - - S			
	Rothamsted . .	TR - - S		Southport . .	TR E1 E4 S			
	Gorleston . .	TR E1 E4 S		Stonyhurst . .	TR - - S		Scilly . .	TR - - S

† No 1 ft. earth temp. after Feb.

‡ No 4 ft. earth temp. after March.

* Terminated 8-8-46

+ No 1 ft. temp. after June.

HEIGHTS OF STATIONS ABOVE MEAN SEA LEVEL

In 1933 it was announced by the Ordnance Survey that in future mean sea level at Newlyn (Cornwall) should be adopted as the standard of reference for heights in the British Isles in place of Liverpool. The heights given in this publication are above the old ordnance datum. At those stations where the new height would differ from the old height by one foot or more, a correction to obtain the new height was given in the Introductions 1939 to 1941. The new heights are not yet adopted in this publication because they cannot in all cases be regarded as final and as the whole area has not yet been re-surveyed.

ADDITIONAL RECORDS AVAILABLE FOR 1946

Details of some additional records received for 1946 which are not summarised in the Monthly Weather Report:—
(a) Returns on Form 3206 have been received for the hours set out below in addition to those summarised in Table IV:—

	<i>Hours</i>		<i>Hours</i>		<i>Hours</i>		<i>Hours</i>
Aberporth . . .	0, 6, 12, 18	Gorleston . . .	6, 12, 18	Mount Batten . . .	6, 12, 18	Spurn Head . . .	6, 12, 18
Bristol . . .	0, 6, 12, 18	Fairwood Common . . .	0, 6, 12, 18	Pembroke Docks . . .	0, 6, 12, 18	St. Ann's Head . . .	0, 6, 12, 18
Calshot . . .	0, 6, 12, 18	Larkhill . . .	12	Penrhos . . .	6, 12, 18	Tangmere . . .	0, 6, 12, 18
Cranwell . . .	0, 6, 12, 18	The Lizard . . .	6, 12, 18	Point of Ayre . . .	6, 12, 18	Thorney Island . . .	0, 6, 12, 18
Croydon . . .	0, 6, 12, 18	Lympne . . .	0, 6, 12, 18	Portland Bill . . .	0, 6, 12, 18	Tynemouth . . .	0, 6, 12, 18
Dunstable . . .	0, 6, 12, 18	Lynemouth . . .	0, 6, 12, 18	Ross on Wye . . .	6, 12, 18	Waddington . . .	0, 6, 12, 18
Edgbaston . . .	0, 6, 12, 18	Manston . . .	0, 6, 12, 18	Ringway . . .	0, 6, 12, 18	West Malling . . .	0, 6, 12, 18
Exeter . . .	0, 6, 12, 18	Mildenhall . . .	0, 6, 12, 18	Shawbury . . .	0, 6, 12, 18	Woodbridge . . .	0, 6, 12, 18

(b) For certain stations hourly tabulations for 1946 are available of wind force and direction, rainfall duration and amount, and duration of sunshine, and the list is given below where, W, R, and S stand for hourly values of wind, rainfall and sunshine:

Abbotsinch W, R, S	Falmouth S	Little Rissington R	St. Ann's Head W* (Jan.-Oct. only)
Abingdon R, W	Felixstowe W, S (R, July-Dec. only)	Lizard W*	Scilly W*
Aldergrove W, R, S	Fleetwood*	Lympne W, R, S	Sealand W, R, S
Alness W (Jan.-Oct. 1946 only)	Gorleston W*	Manchester (Ringway) W, R, S	Shobdon (ceased)
Armagh W*, R	Hawarden S (R Apr.-Dec. only)	Manston W, R, S	Shoeburyness W
Birmingham W	Holyhead W*, R, S	Market Harborough (ceased)	South Farnborough R, S
Boscombe Down W, R, S	Kingsway W	Mildenhall W, R, S	South Shields W
Bristol R, S	Leeming R, S	Mount Batten S (R June-Dec. only)	Southgate W
Cardington W*	Leicester W*	Pendennis W*	Southport*
Castle Archdale R	Lerwick W, S	Point of Ayre*	Speke S
Cranwell W, R, S	Leuchars R, S	Prestwick W	Spurn Head*
Croydon W, R, S	Linton-on-Ouse W (Jan., Feb., July, Nov., Dec. only)	Rothamsted S	Thornaby W (Jan.-Aug. only)
Dunstable W, S			Thorney Island W, R

* Anemograms stored in Meteorological Office (M.O. 3).

The list of stations for which daily analyses of wind force and direction are available appear in Table II.

AVERAGES.

Rainfall (Table III).—The averages refer to the period 1881-1915 and are “weighted” if the record is not complete for that period. The averages of rainfall are given in the Book of Normals, Section V.

Pressure (Table IV).—The averages refer to 9h. G.M.T. for period 1901-1930 and have been “weighted” where necessary.

Temperature and Sunshine (Table III).—The averages in nearly all cases refer to periods of from 10 to 30 years ending 1935. The length of the period for each station is shown in the appropriate column of the List of Stations. Differences from averages of less than 30 years are printed in italics.

The averages are given in the following publications:—

- (1) Averages of Temperature for the British Isles for periods ending 1935 (M.O. 407).
- (2) Averages of Bright Sunshine for the British Isles for periods ending 1935 (M.O. 408).

Earth Temperatures 1ft. and 4ft.—In general the averages cover the period 1911-1925.

Tiree. The averages of temperature and sunshine refer to the period 1927-1936.

STANDARDS OF TIME.

Summer time was in force from April 14th to Oct. 16th. Public clocks were one hour in advance of Greenwich Mean Time. From Oct. 7th all clocks referred to Greenwich Mean Time. Observers were recommended to make their observations at the same hours by Greenwich Mean Time throughout the year. At nearly all stations this recommendation was adopted, but in a very few cases circumstances made it necessary to adhere to the same hour by clock time. The actual hours of observation are given in Table III of the monthly issues. The stations at which the hours of observation are referred to Local Mean Time are given in the Notes to the Tables I-IV.

SEA-TEMPERATURE.

Returns of sea-temperatures are received by the Meteorological Office from certain ships, lightships and coast stations. The mean temperatures of the seas round the British Isles for the months of the year 1946 are shown by figures within circles on the maps in the monthly issues of this report. In general the values are derived from readings of ships under way, or from light vessels.

vii.
LIST OF STATIONS

Station.	No.	Dist.	County.	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
Aber (University Coll. Farm)	257	7	Carnarvon	53° 14'	4° 1W.	III C.W.	D, W, M, O, μ.	11 10	Prof. R. G. White.
Aberdeen (Observatory)	20	1	Aberdeen	57° 10'	2° 6W.	I	D, M, μ.	30 30	Meteorological Office.
Aberporth	259/7	8a	Cardigan	52° 08'	4 34W.	I	D, M, μ.	— —	Meteorological Office.
Aberystwyth	200	8	Cardigan	52° 25'	4 4W.	III H.	m.	25 30	The Town Clerk.
Aberystwyth, P.B.S.	261	8	Cardigan	52° 25'	4 3W.	III C.W.	m.	11 11	The Director, Plant Breeding Station.
Abingdon	205/8	5	Berkshire	51° 41'	1 19W.	I	M, μ.	— —	Meteorological Office.
Achnashellach	9	o	Ross and Cromarty	57° 29'	5 16W.	III	m.	13 —	The Forester-in-Charge, for Forestry Commission (Scotland).
Acklington	71/8	2	Northumberland	55° 18'	1 39W.	I	D, M.	— —	Meteorological Office.
Addington (Hills Res.)	179	5	Surrey	51° 22'	0 4W.	III	m.	30 —	Borough Engineer, Croydon.
Aldergrove (Aerodrome)	307	9	Antrim	54° 39'	6 13W.	I	D, M, μ.	— —	Meteorological Office.
Alness	10/3	o	Ross and Cromarty	57° 41'	4 15W.	I	D, M, μ.	— —	Meteorological Office.
Ambleside	232/5	7	Westmorland	54° 26'	2 57W.	III H.	m.	— —	The Clerk to the Council.
Amesbury	225								<i>See</i> Boscombe Down.
Ampleforth (College)	79/5	2	Yorkshire (N.R.)	54° 12'	1 5W.	III	m.	30 —	Rev. T. L. Jackson, O.S.B.
Appleby	233	7	Westmorland	54° 34'	2 30W.	III	m.	22 —	Lady Holmes.
Arbroath	27	1	Angus	56° 33'	2 35W.	II H.	m.	30 10	The Town Council. (S. J. W. Robertson). <i>See</i> Morvern.
Ardtornish	50								The Director of Observatory (M.O.).
Armagh (Observatory)	313	9	Armagh	54° 21'	6 39W.	II	W, M.	30 30	Meteorological Office.
Ashbourne	138/5	4	Derby	53° 0	1 42W.	I	D, M.	— —	University of Leeds.
Askham Bryan	118/3	4	Yorkshire (W.R.)	53° 55'	1 10W.	III C.W.	m.	— —	West of Scotland College of Agriculture.
Auchincruive	64	6	Ayr	55° 29'	4 34W.	III	m.	— —	Bucks W.A.E.
Aylesbury	150	4	Buckingham	51° 47'	0 47W.	III C.W.	m.	— —	Dr. A. D. Buchanan Smith, Esq.
Balerno (Shothead)	40/5	1	Midlothian	55° 52'	3 21W.	III	m.	— —	The Rector.
Balfour	56/5	6	Stirling	56° 4	4 20W.	III	m.	— —	Meteorological Office.
Bally Kelly	306	N.I.	Derry	55° 4	7 1W.	I	—	— —	Captain H. A. Ross.
Balmoral (Castle G'dns.)	21	1	Aberdeen	57° 2	3 12W.	III	m.	30 —	T. Edmondson Saxby, Esq., F.R.F.P.S., (Glas.), J.P.
Baltsaound (Halligarth)	1	o	Shetlands	60° 46'	0 50W.	III	m.	29 29	The Town Council. (I. H. Gordon).
Banff	19	1	Banff	57° 40'	2 31W.	II H.	m.	15 21	The Librarian, North Devon Antheneum.
Barnstaple	278/5	8	Devon	51° 5	4 3W.	III	m.	— —	James Reilly, Esq.
Barrn (Craigston)	4/5	o	Hebrides	56° 59'	7 30W.	III	m.	— —	A. F. Smith, Esq.
Barra (Skallary)	5	o	Inverness	56° 58'	7 26W.	III	m.	— —	Medical Officer of Health.
Bath	271	8	Somerset	51° 23'	2 21W.	III H.	W, M, W ¹ .	25 27	The Chief Officer (M.O.).
Beachy Head (C. Guard Stn.)	195/5	5	Sussex	50° 44'	0 15E.	T.	m.	11 —	The Head Keeper (M.O.).
Bell Rock Lighthouse	30/5	1	Angus	56° 26'	2 24W.	A.	μ.	— —	Sir Claude Morrison-Bell, Bart.
Bellingham	73	2	Northumberland	55° 13'	2 18W.	III	m.	27 —	Herbert Strutt Secondary School.
Belper (School)	129	4	Derby	53° 1	1 29W.	III	m.	26 —	<i>See</i> Ipswich.
Belstead	100/6								Meteorological Office.
Benbecula	11	o	Inverness	57° 28'	7 22W.	I	D, M.	— —	Borough Surveyor.
Berwick-on-Tweed	72	2	Northumberland	55° 46'	2 0W.	III H.	m.	12 12	The Borough Council. (H. J. Sargent).
Bexhill (Egerton Park)	106	5	Sussex	50° 50'	0 28E.	III H.	m.	— —	<i>See</i> Birkenhead.
Bidston Observatory	248								The Director, St. Ives Research Station.
Bingley	118/5	4	Yorkshire (W.R.)	53° 51'	1 51W.	III	m.	— —	
Birkenhead (Bidston Obs.)	248	7	Cheshire	53° 24'	3 4W.	III A.	W, M, W ¹ , μ.	30 28	The Director.
Birmingham	—								Midland Institute. (A. L. Kelley).
(Edgbaston)	143	4	Warwick	52° 29'	1 56W.	T.A.	W, M, W ¹ , μ.	13 30	D. H. Owen, Esq.
(Sparkhill)	144	4	Warwick	52° 27'	1 51W.	III	m.	28 —	Meteorological Office.
Bishop's Court	311/7	N.I.	Down	54° 19'	5 34W.	I	m.	— —	<i>See</i> Edinburgh.
Blackford Hill	42								The Corporation. (The Curator).
Blackpool	234	7	Lancashire	53° 49'	3 3W.	III H.	m.	25 30	H. C. Thorpe, Esq.
Blandford	273/8	8b	Dorset	50° 51'	2 10W.	III	m.	— —	Meteorological Office.
Bodiam (Hawkhurst)	196/7	5	Sussex	50° 51'	0 30W.	III	m.	— —	Robin Biddulph, Esq.
Boghall	41								E. L. Kidd, Esq.
Bognor Regis	197	5	Sussex	50° 47'	0 41W.	III H.	m.	30 25	<i>See</i> Edinburgh.
Bolton	235	7	Lancashire	53° 35'	2 27W.	III	m.	30 30	The Town Clerk.
Bonehill	278/6	8	Devon	50° 35'	3 49W.	III	—	— —	The Corporation. (The Curator).
Boscombe Down (Aero.)	225	5	Wiltshire	51° 10'	1 45W.	I	D, M, μ.	— —	H. C. Thorpe, Esq.
Boston (Freiston Rd.)	88/6	2	Lincolnshire	52° 58'	0 0	II	m.	— —	Meteorological Office.
Bournemouth (Vale View)	212	5	Hampshire	50° 43'	1 54W.	II H.	m.	26 30	N. H. Middlebrook, Esq.
Boxted	110/5	3	Essex	51° 56'	0 57E.	I	D.	— —	The Corporation.
Bradford (Lister Park)	119	4	Yorkshire (W.R.)	53° 49'	1 46W.	III	m, W ¹ .	28 28	Meteorological Office.
Bradwell Bay	110/8	3	Essex	51° 44'	0 55E.	I	—	— —	The Headmaster.
Braemar	22	1	Aberdeen	57° 0	3 24W.	II	M.	30 —	Deputy Commander, R.E.
Bramley	212/3	5	Hampshire	51° 15'	3W.	III	m.	— —	The Headmaster.
Bridlington (School)	85	2	Yorkshire (E.R.)	54° 5	0 13W.	II H.	m.	10 11	Meteorological Office.
Bristol (Airport)	271/7	8	Somerset	51° 25'	2 35W.	T.	D, M.	— —	Borough Engineer.
Bromley	183	5	Kent	51° 24'	0 1E.	III	m.	— —	H. B. Smith-Gresswell, Esq.
Brough Sowerby	233/1	7	Westmorland	54° 31'	2 19W.	III	m.	— —	<i>See</i> Carnoustie.
Buddon Ness Lighthouse	29								Clerk to the Council.
Bude	295	8	Cornwall	50° 50'	4 33W.	III H.	m.	12 17	Sir Shafte Adair, Bart.
Bungay (Flixton)	97	3	Suffolk	52° 25'	1 23E.	III	m.	15 —	<i>See</i> London.
Bunhill Row	165								Medical Officer of Health.
Burnley	236	7	Lancashire	53° 48'	2 15W.	III	m, W ¹ .	28 28	The Town Clerk.
Buxton	131	4	Derby	53° 16'	1 55W.	III H.	m.	25 28	The Director.
Byfleet (Wisley R.H.S. Gdns.)	181	5	Surrey	51° 17'	0 26W.	III C.W.	M.	30 30	Meteorological Office.
Calshot (Aerodrome)	213	5	Hampshire	50° 49'	1 18W.	I	D, M, μ.	15 15	The Curator.
Cambridge (Bot. Gdns.)	102	3	Cambridge	52° 12'	0 8E.	II	W, M.	30 30	<i>See</i> London.
Canberra Square	166								The Principal.
Cannington (Somerset Farm Institute)	272	8	Somerset	51° 9'	3 4W.	III C.W.	m.	— —	

Station.	No.	Dist.	County.	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
Cantrif (Cardiff Water-works)	266	8	Brecknock	51° 50'	3 27W.	III	m.	— —	The Water Engineer, Cardiff.
Cape Wrath	8/3	o	Sutherland	58° 37'	5 oW.	T.	M.	— —	Principal Lightkeeper (M.O.).
Cardiff	267	8	Glamorgan	51° 28'	3 10W.	II	M,W ¹ .	30 28	Medical Officer of Health.
Cardington (R.A.W.)	107/5	3	Bedford	52° 7'	o 25W.	A.	μ.	— —	Meteorological Office.
Cardross	55	6	Dumbarton	55° 58'	4 38W.	III	m.	27 27	Mrs. C. A. Allan.
Carlisle	230	7	Cumberland	54° 55'	2 57W.	I	D.	— —	Meteorological Office.
Carluke (Law Junction)	60/5	6	Lanark	55° 45'	3 53W.	III	m.	— —	Dr. W. A. Galbraith.
Carnoustie (Buddon Ness Lighthouse)	29	1	Angus ..	56° 28'	2 44W.	III	—	— —	Dundee Harbour Trust. (J. Hannay Thomson).
Caestle Archdale	313/6	N.I.	Fermanagh	54° 28'	7 43W.	I	D,M.	— —	Meteorological Office.
Castlerock	306/3	N.I.	Londonderry	55° 10'	6 46W.	III	m.	— —	E. G. Box, Esq.
Charter Hall	44/5	1	Berwick	55° 43'	2 23W.	I	M.	— —	Meteorological Office.
Cheltenham (Montpellier Gdns.)	162	4	Gloucester	51° 54'	2 3W.	II H.	M.	25 29	The Town Clerk.
Chivenor	278/7	8b	Devon	51° 05'	4 09W.	I	D,M.	— —	Meteorological Office.
Chopwellwood	76	..	Yorks. W.R.	53° 50'	1 4W.	I	—	— —	See Rowlands Gill.
Church Fenton	119/5	4	Essex ..	51° 47'	1 9E.	III H.	—	20 30	Meteorological Office.
Clacton-on-Sea	111	3	Cleethorpes (King's Parade)	53° 33'	o 1W.	III H.	m.	— —	The Town Clerk.
Coldas	151/1	4	Lincolnshire	53° 16'	3 44W.	III H.	m.	II II	The Engineer and Surveyor. <i>See Morpeth.</i>
Colmonell	65	6	Shropshire	52° 35'	2 12W.	III	M.	— —	A. J. Parkes, Esq.
Colonsay	50/3	6	Ayr ..	55° 8'	4 57W.	III	m.	28 —	D. D. Gordon for Major D. McConnel.
Colwyn Bay (Eirias Park)	256	7	Argyll ..	56° 5'	6 11W.	III	m.	— —	Murdo McNeill for Lord Stratheona.
Compton Scorpion	147/4	7	Denbigh	53° 16'	3 44W.	III H.	m.	22 27	Engineer and Surveyor. <i>See Shipston-on-Stour.</i>
Cottismore	139/8	4	Rutland	52° 43'	o 38W.	I	—	— —	Meteorological Office.
Coventry (City Hospital)	145	4	Warwick	52° 23'	1 29W.	III	m.	30 30	Medical Officer of Health.
Craibstone	23	1	Aberdeen	57° 11'	2 12W.	III C.W.	m.	II II	The Principal.
Craigston	4/5	..	Bedford	52° 4'	o 37W.	I	D,M.	— —	<i>See Barra.</i>
Cranfield (Aerodrome)	105/2	3	Lincolnshire	53° 2'	o 30W.	I	W,M,μ.	10 10	Meteorological Office.
Cranwell (Aerodrome)	89	..	Brecknock	51° 51'	3 7W.	III	m.	— —	Meteorological Office.
Crickhowell	266/5	8	Norfolk	52° 56'	1 17E.	III H.	M.	25 30	R. G. Sandeman, Esq.
Cromer	92	3	Surrey	51° 21'	o 7W.	I	D,M,μ.	15 15	Clerk to the Urban District Council.
Croydon (Addington)	179	5	Devonshire	50° 51'	3 23W.	III	W,m.	30 30	<i>See Addington.</i>
Croydon (Airport)	180	5	Fife ..	56° 3'	3 1W.	III	m.	28 —	Meteorological Office.
Cullompton	279	8	Cupar (Asylum)	56° 19'	3 1W.	III	m.	— —	Murray T. Foster, Esq.
Dashwell	279/5	8	Devon	50° 40'	3 28W.	III H.	m.	— —	The Medical Superintendent.
Dalwhinnie	12	o	Inverness	56° 56'	4 14W.	T.	D,M.	— —	The Borough Engineer and Surveyor.
Darwen	237	7	Lancashire	53° 41'	2 28W.	II	m.	28 28	G. Ritchie, Esq. (M.O.).
Deal	185	5	Kent ..	51° 13'	1 24E.	III H.	—	10 —	Medical Officer of Health.
Deshborough	140	4	Northampton	52° 28'	o 48W.	I	M.	— —	The Town Clerk.
Dowell	147/5	..	Fife ..	56° 3'	3 21W.	I	M.	— —	Meteorological Office.
Donibristle	35/3	1	Ish of Man	54° 10'	4 28W.	III H.	M.	— —	<i>See Stratford-on-Avon.</i>
Douglas	71	6	Kent ..	51° 7'	1 19E.	III H.A.	m,μ.	25 30	Meteorological Office.
Dover (Waterloo Cres.)	186	5	Essex ..	51° 57'	1 16E.	III H.	m.	23 25	Borough Surveyor, Harwich.
Dovercourt	113/5	3	Yorks E.R.	54° 0'	o 28W.	I	M.	— —	<i>See Stratford-on-Avon.</i>
Draycott Manor	147/5	2	Worcester	52° 16'	2 9W.	III H.	m.	— —	Meteorological Office.
Driffield	85/3	..	Dumfries	53° 3'	3 36W.	III	W,m.	30 26	The Borough Engineer and Surveyor.
Droitwich	155/5	4	E. Lothian	56° 0'	2 31W.	III H.	m.	— —	Crichton Royal Institution.
Dunfermline	35/5	1	Angus ..	56° 28'	2 56W.	III	W,m.	20 20	(Dr. P. K. McCowan).
Dungavel	61	..	Fife ..	56° 4'	3 28W.	II H.	m.	— —	The Borough Surveyor.
Dungeness	187	5	Kent ..	50° 55'	o 58E.	T.	M.	15 —	The Director of Studies.
Dunoon (Bennmore)	50/5	6	Argyll ..	56° 2'	4 59W.	III C.W.	m.	— —	The Carnegie Dunfermline Trust.
Dunoon	50/4	6	Argyll ..	55° 58'	4 56W.	III H.	m.	— —	<i>See Strathaven.</i>
Dunstable	105	3	Bedford	51° 53'	o 33W.	I	M,μ.	— —	Chief Officer, R.N. Signal Station (M.O.).
Duntulm	7/5	o	Inverness, Skye	57° 39'	6 22W.	III	m.	— —	Forestry Commission (Scotland).
Durham	77	2	Durham	54° 46'	1 35W.	II A.	W,M,μ.	30 30	The Burgh Engineer.
„ (Houghall Hort. Stn.)	78	2	Durham	54° 45'	1 35W.	III C.W.	m.	10 10	Meteorological Office.
Dyce	23/1	1	Aberdeen	57° 12'	2 12W.	I	M.	— —	Seton Gordon, Esq., C.B.E.
Earls Colne (Grammar School)	114	3	Essex ..	51° 55'	o 42E.	III	m.	II —	University Observatory. (The Director).
Eastbourne (Wilmington Sq.)	199	5	Sussex ..	50° 46'	o 17E.	II H.	m.	30 30	Director of Agriculture.
East Ham	167	..	Angus ..	56° 31'	2 41W.	I	D.	— —	Meteorological Office.
Easthaven	30/5	1	Kent ..	51° 17'	o 24E.	III C.W.	m.	II II	The Head Master.
East Malling (Research Stn.)	188	5	Medical Officer of Health.
Edgbaston	143	<i>See London.</i>
									Royal Naval Air Service.
									The Director.
									<i>See Birmingham.</i>

Station.	No.	Dist.	County.	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
Edinburgh :—				° N.,	° ,				
Blackford Hill ..	42	1	Midlothian ..	55 55	3 11W.	II A.	W,M, μ .	30 30	The Astronomer Royal for Scotland.
" (Bot. Gardens)	42/5	1	Midlothian ..	55 58	3 12W.	III	m.	— —	The Curator.
Boghall ..	41	1	Midlothian ..	55 52	3 12W.	III C.W.	m.	11 11	Edinburgh and East of Scotland College of Agriculture.
Liberton (College Farm) ..	43	1	Midlothian ..	55 55	3 10W.	III	m.	— —	Edinburgh and East of Scotland College of Agriculture.
University (King's Buildings) ..	43/5	1	Midlothian ..	55 55	3 11W.	III	m.	— —	Professor of Engineering.
Ellbridge (Experimental Stn.) ..	295/5								<i>See</i> St. Melion.
Elmstone ..	188/3	5	Kent ..	51 17	1 14E.	III	m.	— —	J. B. Henderson, Esq.
Enfield (Sewerage Wks.)	168								<i>See</i> London.
Eskdalemuir (Observatory) ..	69	6	Dumfries ..	55 19	3 12W.	I	D,W,M, μ ,O.	26 26	The Superintendent (M.O.).
Exeter ..	280	8b	Devon ..	50 44	3 25W.	I	D,M.	— —	Meteorological Office.
Exmouth ..	281	8	Devon ..	50 36	3 24W.	III H.	m.	22 22	The Engineer and Surveyor.
Fairwood Common ..	267/2	8a	Glamorgan ..	51 36	4 05W.	I	D,M.	— —	Meteorological Office.
Falmouth (Observatory) ..	296	8	Cornwall ..	50 9	5 5W.	III H.	m,W.	25 30	The Supt. for Royal Cornwall Polytechnic Society.
Farnham (Boundstone) ..	180/4	5	Surrey ..	51 11	0 48W.	III	—	— —	A. Hampton Brown, Esq.
Farnham ..	180/3	5	Surrey ..	51 13	0 4W.	III	m.	— —	A. C. Hunt, Esq.
Felixstowe (Aerodrome) ..	100	3	Suffolk ..	51 57	1 20E.	I	D,M, μ .	15 30	Meteorological Office.
Finningley ..	119/7	4	Yorks. W.R. ..	53 29	1 0W.	I	D,M.	— —	Meteorological Office.
Fleetwood ..	237/5	7	Lancashire ..	53 56	3 1W.	A.	μ .	— —	Borough Council (M.O.).
Fleetwood ..	237/5	7	Lancashire ..	53 56	3 1W.	III H.	m.	— —	The Town Clerk.
Fochabers (Gordon Castle) ..	18	1	Moray ..	57 37	3 5W.	II	m.	30 27	J. Taylor, for Commissioners of Crown Lands.
Folkestone (Isolation Hospital) ..	189	5	Kent ..	51 5	1 11E.	III H.	d,m.	20 30	Borough Engineer.
Forres ..	17/5	1	Moray ..	57 37	3 36W.	III H.	m.	— —	The Town Clerk.
Fort Augustus (Abbey) ..	13	o	Inverness ..	57 8	4 40W.	III	W,m.	30 20	The Procurator.
Fortrose ..	10	o	Ross and Cromarty ..	57 35	4 8W.	III	m.	25 25	The Town Council. (Rev. Wm. Craig).
Fort William ..	14	o	Inverness ..	56 49	5 7W.	III	m.	21 20	Jas. W. Ainslie, Esq.
Fowey ..	298	8	Cornwall ..	50 21	4 38W.	III	m.	25 25	The Town Clerk.
Frampton Cotterell ..	163/2	4	Gloucester ..	51 32	2 29W.	III	m.	— —	H. H. Harding, Esq.
Frodesby Hall ..	153/3								<i>See</i> Shrewsbury.
Garvagh (Moneydig) ..	306/4	9	Londonderry ..	54 59	6 36W.	III	W,m.	— —	J. Porter, Esq.
Gibraltar ..	337	—		36 6	5 21W.	I	M.	15 —	Meteorological Office.
Glasgow (Springburn Park) ..	62/3	6	Lanark ..	55 53	4 14W.	III	m.	— —	Director of Parks.
Glenbranter ..	51		Kirkcudbright ..	55 6	4 11W.	III	m.	— —	<i>See</i> Strachur.
Glenlee ..	70/5	6	Moray ..	57 42	3 22W.	III	m.	— —	Galloway Water Power Co.
Gordon Castle ..	18		Norfolk ..	52 35	1 43E.	T.A.	D,M,W, μ .	15 —	<i>See</i> Fochabers.
Gordonstoun ..	18/3	1							K. A. Campbell, Esq.
Gorleston (C. Guard Stn.) ..	96	3							Station Officer (M.O.).
Goudhurst (Bedegbury Forest) ..	189/3	5	Kent ..	51 5	0 27E.	III	m.	— —	Forestry Commission.
Greenock ..	58	6	Renfrew ..	55 56	4 46W.	II	m.	30 —	Water Engineer.
Greenwich ..	169								<i>See</i> London.
Guilval (Experimental Stn.) ..	299	8	Cornwall ..	50 8	5 32W.	III C.W.	m.	11 11	Cornwall County Council.
Habrough ..	90/5	2	Lincoln ..	53 37	0 15W.	III	—	— —	R. J. Blakeborough, Esq.
Halstead ..	115	3	Essex ..	51 57	0 38E.	III	m.	30 —	F. N. Adams, Esq.
Hampstead Res. ..	170								<i>See</i> London.
Hankham ..	200	5	Sussex ..	50 49	0 18E.	III	m.	— —	A. E. Moon, Esq.
Harpden (Rothamsted) ..	109	3	Hertford ..	51 48	0 22W.	III C.W.	W,M.	30 30	Lawes Agricultural Trust.
Harragote ..	121	4	Yorkshire (W.R.) ..	54 0	1 33W.	III H.	W,M.	15 30	Borough Engineer.
Hartland Point (C. Guard Stn.) ..	281/5	8	Devon ..	50 1	4 32W.	T.	M.	— —	Station Officer (M.O.).
Haverfordwest ..	262	8	Pembroke ..	51 48	4 58W.	II	m.	28 28	The Borough Surveyor.
Hawarden ..	251/5	7b	Flint ..	53 11	2 59W.	I	D,M.	— —	Meteorological Office.
Hawarden Bridge ..	252	7	Flint ..	53 12	3 1W.	III	m.	30 —	Messrs. John Summers and Sons, Ltd.
Hawkwick (Wolfelée) ..	49	1	Roxburgh ..	55 23	2 39W.	III	m.	30 —	T. Lockie for Mrs. Browne.
Hawkhurst ..	196/7								<i>See</i> Bodiam.
Helensburgh (Valve House) ..	56	6	Dumbarton ..	56 1	4 43W.	III	m.	30 25	Burgh Surveyor.
Hereford (Belmont Abbey) ..	159	4	Hereford ..	52 5	2 45W.	III	m.	30 —	The Abbot.
Hillsborough ..	309	9	Down ..	54 27	0 4W.	III	m.	— —	The Secretary, Agricultural Research Institute.
Holton Heath ..	274								<i>See</i> Poole.
Holyhead ..	255	7	Anglesey ..	53 19	4 37W.	I	W,m, μ .	15 23	Meteorological Office.
Honiley ..	145/5	4	Warwick ..	52 22	1 40W.	I	D,M.	— —	Meteorological Office.
Houghall (Hort. Station) ..	78								<i>See</i> Durham.
Hoylake (Rec. Ground) ..	247	7	Cheshire ..	53 23	3 12W.	III	m.	30 30	The Surveyor.
Huddersfield (Ravensknowle) ..	122	4	Yorkshire (W.R.) ..	53 38	1 45W.	II	m,W ₁ .	29 29	The Corporation.
Hull (Pearson Park) ..	123	4	Yorkshire (W.R.) ..	53 39	1 50W.	III	m.	11 —	S. Morris Bower, Esq.
Hutton ..	86	2	Yorkshire (E.R.) ..	53 45	0 16W.	II	m,W ₁ .	30 10	The General Superintendent, Parks, Cemeteries and Allotments Dept.
Hunstanton ..	93	3	Norfolk ..	52 57	0 29E.	III H.	m.	12 12	Hunstanton Advancement Association.
Hutton ..	238	7	Lancashire ..	53 44	2 45W.	III	M.	23 23	The Director of Education for the Lancashire County Council.

Station.	No.	Dist.	County.	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
Ilfracombe (Bowling Green)	282	8	Devonshire	51 12	4 8W.	III H.	m.	25 25	The Surveyor.
Ilkley	124	4	Yorkshire (W.R.)	53 55	1 50W.	III H.	—	— —	The Engineer and Surveyor.
Inverness	15	0	Inverness	57 26	4 13W.	II	W.M.	25 25	The Town Council. (Malcolm McPhee).
Ipswich (Belstead)	100/6	3	Suffolk	52 0	1 2E.	III	m.	— —	R. Wilson, Esq.
Jersey (St. Heliers)	326	11	Channel Islands	49 11	2 6W.	III H.	W.m.	25 30	The Greffier.
Jurby	71/3	6b	Isle of Man	54 21	4 30W.	I	D.M.	— —	Meteorological Office.
Kensington	171								See London.
Kelso (Floors)	48	1	Roxburgh	55 36	2 25W.	III	m.	30 —	Peter Cameron, Esq.
Keswick	231	7	Cumberland	54 36	3 9W.	III	m.	30 17	Clerk to the Urban District Council.
Kettins	31	1	Angus	56 32	3 14W.	III	m.	26 —	George Bell, Esq., M.A.
Kew Observatory	174								See London.
Killerton	283								See Silverton.
Kilmarnock (Kay Park)	65/5	6	Ayr	55 37	4 29W.	III	m.	28 28	W. Dunbar, Esq., C.E.
Kings Langley	108/1	3	Hertford	51 43	0 27W.	III	m.	— —	H. Dennett, Esq.
Kingsway	165								See London.
Kirkcaldy (Victoria Hosp.)	37	1	Fife	56 8	3 10W.	III	m.	22 —	Medical Officer of Health.
Langham	93/5	3	Norfolk	52 56	0 58E.	I	m.	— —	Meteorological Office.
Lake Vyrnwy	259/5	7	Montgomery	52 46	3 28W.	III	m.	— —	Chief Engineer.
Larkhill (School of Artillery)	227	5	Wilts	51 11	1 48W.	I	M. μ .	15 —	Meteorological Office.
Leamington Spa	146	4	Warwick	52 18	1 30W.	III H.	m.	13 19	Medical Officer of Health.
Leckford	214/5	5	Hampshire	51 7	1 26W.	III	m.	— —	The Managing Director, Leckford Estate, Ltd.
Leeming	80	2	Yorkshire (N.R.)	54 18	1 32W.	I	D.M.	— —	Meteorological Office.
Leicester (City General Hospital)	139/5	4	Leicester	52 38	1 5W.	III A.	M. μ , O.W.	— —	Medical Officer of Health.
Lerwick Observatory	2/5	0	Shetlands	60 8	1 11W.	I	m.	14 13	Meteorological Office.
Leuchars (Aerodrome)	38	1	Fife	56 23	2 53W.	I	m.	15 15	Meteorological Office.
Leyland	240	7	Lancashire	53 41	2 42W.	III	m.	24 25	H. Nowell Flarington, Esq.
Liberton (College Farm)	43								See Edinburgh.
Lincoln	90/7	2	Lincoln	53 14	0 33W.	III	—	— —	A. Mann, Esq.
Linton-on-Ouse	81	2	Yorkshire (N.R.)	54 3	1 15W.	I	M.	— —	Meteorological Office.
Lisburn (School)	310		Antrim	54 31	6 3W.	III	m.	18 —	The Headmaster.
Littlehampton	201	5	Sussex	50 48	0 32W.	III H.	m.	10 15	The Clerk to the U.D.C.
Little Rissington	163/4	4	Gloucester	51 52	1 42W.	I	D.M.	— —	Meteorological Office
Liverpool (Bidston)	248								See Birkenhead.
Lizard, The (C. Guard Stn.)	299/5	8	Cornwall	49 57	5 12W.	T.A.	D.M. μ .	— —	Station Office (M.O.).
Llandudno	258	7	Carnarvon	53 20	3 50W.	III H.	M.	25 30	Medical Officer of Health.
Llety-evan-hen	261/5								See Talybont.
Logie Coldstone	24	1	Aberdeen	57 8	2 55W.	III	m.	30 —	Duncan Paterson, Esq., M.A., B.Sc.
London :—									
Bunhill Row	165	Lon.	London	51 31	0 5W.	(Sunsh. only)	mo.	— 30	Messrs. T. De La Rue & Co., Ltd.
Camden Square	166	Lon.	London	51 33	0 8W.	III	m.	30 —	Royal Meteorological Society.
East Ham	167	Lon.	Essex	51 32	0 4E.	III	m.	30 —	The Corporation.
Enfield	168	Lon.	Middlesex	51 40	1 10W.	II	m.	24 24	Engineer and Surveyor.
Greenwich Obs'y.	169	Lon.	London	51 29	0 0	I	M.W ¹ .	30 30	The Astronomer Royal.
Hampstead Reservoir	170	Lon.	London	51 34	0 11W.	III	m.	25 25	The Hampstead Scientific Society. (E. L. Hawke, M.A.).
Kensington Palace	171	Lon.	London	51 30	0 10W.	III	M.	10 —	H.M. Office of Works (M.O.).
Kew Observatory	174	Lon.	Surrey	51 28	0 19W.	I	D,W,M,O, μ .	30 30	The Superintendent (M.O.).
Kingsway	165	Lon.	London	51 31	0 7W.	(Sunsh. only)	mo.	— 30	Meteorological Office.
Regent's Park	173	Lon.	London	51 31	0 9W.	III	m.	— 30	H.M. Office of Works (M.O.).
Southgate	174/7	Lon.	London	51 38	0 07W.	III	m.	— —	Borough Engineer.
Wealdstone	177/7	Lon.	Middlesex	51 35	0 20W.	III	m.	— —	Messrs. Kodak, Ltd.
Westminster :—									
St. James's Park	178	Lon.	London	51 30	0 8W.	III	{ m.	30 —	H.M. Office of Works (M.O.).
Training College	178	Lon.	London	51 30	0 8W.	(Sunsh. only)	{ m.	— 30	The Principal.
Long Ashton (Research Stn.)	273	8	Somerset	51 26	2 40W.	III C.W.	m.	15 15	The Director.
Longforgan	33/5	1	Perth	56 28	3 8W.	III	m.	— —	Dr. J. H. Brush.
Long Sutton	215	5	Hampshire	51 12	0 56W.	III C.W.	m.	12 12	The Lord Wandsworth College.
Lossiemouth	18/5	1	Moray	57 44	3 17W.	I	M.	— —	Meteorological Office.
Lowestoft	101	3	Suffolk	52 29	1 45E.	III H.	m.	20 25	The Town Clerk.
Luton (Wardour Park)	106	3	Bedford	51 54	0 25W.	III	m.	15 15	Borough Engineer.
Lympne	190	5	Kent	51 5	1 1E.	I	D,M, μ .	15 15	Meteorological Office.
Lyncham	227/5	5	Wiltshire	51 30	1 59W.	I	m.	— —	Meteorological Office.
Macclesfield	249	7	Cheshire	53 16	2 8W.	III	m.	30 —	Borough and Waterworks Engineer.
Machrihanish	51/3	6a	Argyll	55 26	5 41W.	I	M.	— —	Meteorological Office.
Madley	159/5	4	Hereford	52 2	2 51W.	I	D.	— —	Meteorological Office.
Maldon	115/5	3	Essex	51 30	0 40E.	III	m.	— —	The Town Clerk.
Malta	338	—	—	35 54	14 31E.	I	M.	15 15	Meteorological Office.
Malvern (Free Library)	156	4	Worcester	52 8	2 18W.	III H.	m.	25 22	Clerk to the Council.
Manchester (Ringway)	249/5	7	Cheshire	53 21	2 16W.	I	D,M.	— —	Meteorological Office.
(Burnage School)	240/7	7	Lancashire	53 26	2 12W.	III	—	— —	Manchester Education Committee.
(Whitworth Pk.)	241	7	Lancashire	53 28	2 14W.	II	M,W ¹ .	30 30	The Director, Physical Laboratories, University of Manchester.
Mansfield	133	4	Nottingham	53 9	1 11W.	III	m.	10 —	Borough Surveyor.
Manston (Aerodrome)	190/5	5	Kent	51 21	1 22E.	I	D,M, μ .	— —	Meteorological Office.

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Station.	No.	Dist.	County.	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
				o N.	o S.				
Marchmont ..	45	1	Berwick ..	55 44	2 25W.	III	W.m.	30 30	Capt. J. H. F. McEwen, M.P.
Margate ..	191	5	Kent ..	51 24	1 24E.	III H.	W.m.	25 30	The Town Clerk.
Market Drayton ..	150/7	4	Stafford ..	52 55	2 24W.	II	m.	— —	The Medical Superintendent, Cheshire Joint Sanatorium.
Marlborough College ..	228	5	Wilts. ..	51 25	1 44W.	III	W.m.	30 30	The Headmaster.
Mayfield ..	151	4	Stafford ..	53 0	1 46W.	III	m.	27 23	Late G. C. Lawson, Esq.
Meltham ..	125	4	Yorks. W.R. ..	53 35	1 50W.	III	m.	— —	S. Morris Bower, Esq.
Mildenhall ..	101/5	3	Suffolk ..	52 22	0 28E.	I	D,M, μ .	— —	Meteorological Office.
Milford ..	181/5	5	Surrey ..	51 40	0 39W.	III	m.	— —	G. S. Sansom, D.Sc.
Moneydig ..	306/4								See Garvagh.
Montrose Links ..	32	1	Angus ..	56 42	2 28W.	III H.	m.	15 19	Burgh Surveyor.
Morecambe ..	244	7	Lancashire ..	54 4	2 52W.	III H.	m.	10 16	The Town Clerk.
Morpeth (Cockle Park) ..	74	2	Northumberland ..	55 13	1 41W.	II C.W.	W.M.	30 30	Northumberland County Council.
Morvern (Ardtornish) ..	50	6	Argyll ..	56 34	5 45W.	II	m.	25 —	A. Cameron, for O. H. Smith, Esq.
Mount Batten (Aero.) ..	287								See Plymouth.
Mount Stewart ..	312/5								See Newtownards.
Nairn ..	17	1	Nairn ..	57 36	3 52W.	III H.	W.m.	20 29	The Town Clerk.
Nelson ..	244/5	7	Lancashire ..	53 50	2 12W.	III	m.	— —	Medical Officer of Health.
Newport (The Mall) ..	220	5	Isle of Wight ..	50 42	1 18W.	III	m.	15 —	The Borough Engineer and Surveyor.
Newport (Hospital) ..	269	8	Monmouth ..	51 35	3 0W.	III	m.	15 —	Medical Officer of Health.
Newport ..	152	4	Shropshire ..	52 47	2 25W.	III C.W.	m.	— —	Harper Adams Agricultural College.
Newquay ..	300	8	Cornwall ..	50 25	5 4W.	III H.	M.	25 30	The Urban District Council.
Newton Abbot (Seale-Hayne College) ..	284	8	Devonshire ..	50 33	3 38W.	III C.W.	m.	11 11	The Principal. See Penrith.
Newton Rigg ..	232								
Newtownards (Mount Stewart) ..	312/5	9	Down ..	54 35	5 41W.	(Sunsh. only)	m,o.	— —	The Marquess of Londonderry.
North Berwick (Gas Works) ..	44	1	E. Lothian ..	56 3	2 43W.	III H.	m.	13 13	Town Council.
Norwich (Southwell Lodge) ..	94	3	Norfolk ..	52 37	1 17E.	III	W,m,W ¹ .	30 25	J. H. Willis, Esq.
, (Sproxton Church Farm) ..	95	3	Norfolk ..	52 40	1 20E.	III C.W.	m.	11 11	The Director, Norfolk Agricultural Stn.
Nottingham ..	134	4	Nottingham ..	52 56	1 9W.	III	W,M,W ¹ .	30 26	The City Engineer and Surveyor. See Codshall.
Oaken ..	151/1								Burgh Surveyor.
Oban ..	52	6	Argyll ..	56 25	5 30W.	II H.	m.	— 30	Forestry Commission (Scotland).
Onich ..	16	0	Inverness ..	56 43	5 13W.	III	m.	— 12	Chief Engineer.
Oswestry ..	153	4	Shropshire ..	52 51	3 4W.	III	m.	— —	
Oxford (Radcliffe Meteorological Station) ..	149	4	Oxford ..	51 46	1 16W.	III	W,M.	30 30	The Reader in Climatology.
Paignton ..	285	8	Devonshire ..	50 26	3 34W.	III H.	m.	21 26	Town Council. (C. Bellinger).
Paisley (Coats Obsy.) ..	59	6	Renfrew ..	55 51	4 26W.	II A.	m, μ .	30 30	Observatory Committee. (J. Woodrow).
Pantyhuad ..	264/5	8	Carmarthen ..	51 47	4 34W.	III C.W.	—	—	University College of Wales.
Parkend ..	163/5	4	Gloucester ..	51 47	2 23W.	III C.W.	m.	— —	Forestry Commission.
Patcham ..	201/5	5	Sussex ..	50 53	0 9W.	III	m.	— —	G. B. Hamlin, Esq.
Peebles ..	46	1	Peebles ..	55 39	3 11W.	III	m.	— —	Forestry Commission.
Pendennis Castle ..	297								See Falmouth.
Penrith (Newton Rigg) ..	232	7	Cumberland ..	54 40	2 47W.	II C.W.	W,m.	30 30	The Cumberland County Council.
Penzance ..	301	8	Cornwall ..	50 7	5 32W.	III H.	m.	25 30	The Town Clerk.
Penhros ..	258/2	7b	Caernarvon ..	52 52	4 29W.	I	D,M.	— —	Meteorological Office.
Penicuik ..	43/6	1	Midlothian ..	55 50	3 13W.	III	m.	— —	Dr. J. T. Baldwin. See Worcester.
Perdiswell ..									The Town Council.
Perth ..	34	1	Perth ..	56 24	3 27W.	III	W ¹ ,m.	30 22	S. N. Eggar, Esq.
Peterborough ..	140/4	4	Northampton ..	52 35	0 14W.	III	m,W ¹ , μ .	30 30	The Corporation. (Messrs. G. H. Ivory and Partners).
Plymouth (The Hoe) ..	286	8	Devonshire ..	50 22	4 8W.	II A.		—	Meteorological Office.
" (Mount Batten Aero.) ..	287	8	Devonshire ..	50 22	4 8W.	I	D,M.	15 15	
Point of Ayre (Light-house) ..	71/5	6	Isle of Man ..	54 25	4 22W.	T.A.	M, μ .	— —	Lightkeeper (M.O.).
Poole (Hamworthy) ..	274/7	8	Dorset ..	50 43	1 59W.	I	—	—	Meteorological Office.
Poole (Holton Heath R.N. Cordite Factory) ..	274	8	Dorset ..	50 43	2 5W.	II	M.	15 16	The Superintendent, Medical Officer of Health.
Poole ..	274/5	8	Dorset ..	50 43	1 59W.	III H.	m.	— —	The Headmaster.
Pontefract (King's School) ..	126	4	Yorkshire (W.R.) ..	53 42	1 19W.	III	m.	10 —	
Portland Bill (Lighthouse) ..	275	8	Dorset ..	50 32	2 27W.	T.	D,M.	15 —	Lightkeeper (M.O.).
Porton (W.D. Experimental Stn.) ..	229	5	Wilts. ..	51 7	1 42W.	II	m.	15 13	The Superintendent, Meteorological Dept.
*Portsmouth (Victoria Park) ..	216	5	Hampshire ..	50 48	1 6W.	III H.	W ¹ .	25 23	Medical Officer of Health.
Predannick ..	302	8b	Cornwall ..	50 0	5 14W.	I	—	—	Meteorological Office.
Prestatyn ..	252/5	7	Flint ..	53 20	3 24W.	III H.	m.	— —	Clerk to the U.D.C.
Prestwick ..	65/7	6	Ayr ..	55 30	4 37W.	III H.	m.	— —	Burgh Surveyor.
Prestwick Airport ..	65/8	6	Stafford ..	52 28	2 12W.	I	D,M, μ .	— —	Meteorological Office.
Prestwood ..	155/7	4	Devon ..	50 33	3 59W.	III	m.	— —	The Medical Superintendent.
Princetown ..	288	8b					m.	22 —	The Governor, H.M. Prison (M.O.).

*Site changed from Victoria Park to Southsea Common July, 1946.

Station.	No.	Dist.	County.	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
Ramsgate ..	192	5	Kent ..	51° 20'	1° 25E.	III H.	m.	13 23	Borough Engineer.
Raunds ..	141	4	Northampton ..	52° 20'	0° 31W.	III	m.	— —	T. C. Smith, Esq.
Reading :-									
Shinfield ..	208								<i>See Shinfield.</i>
University ..	209	5	Berkshire ..	51° 27'	0° 58W.	III	m.	30 —	Professor J. A. Crowther.
Seed Trial Grounds ..	209/3	5	Berkshire ..	51° 27'	0° 56W.	III	—	— —	A. F. Sutton, Esq.
Redcar ..	81/5	2	Yorkshire (N.R.) ..	54° 37'	1° 4W.	III H.	m.	— —	The Town Clerk.
Regent's Park ..	173								<i>See London.</i>
Renfrew (Abbotsinch Aero.) ..	60	6	Renfrew ..	55° 52'	4° 24W.	I	D,W,M, μ .	15 15	Meteorological Office.
Rhayader ..	205	8	Radnor ..	52° 18'	3° 31W.	III	W,M.	16 18	R. Ashton (M.O.).
Rhyl (Sewage Works) ..	253	7	Flint ..	53° 19'	3° 29W.	III H.	m.	25 30	Medical Officer of Health.
Ross-on-Wye ..	160	4	Hereford ..	51° 55'	2° 35W.	T.	W,M.	10 16	F. J. Parsons (M.O.).
Rothamsted ..	109								<i>See Harpenden.</i>
Rotherham ..	126/5	4	Yorkshire (W.R.) ..	53° 25'	1° 19W.	III	m.	— —	L. Atkinson, Esq.
Rothesay ..	53	6	Bute ..	55° 50'	5° 2W.	II	W,M.	30 22	Bute Natural History Society.
Rowlands Gill (Chopwellwood) ..	76	2	Durham ..	54° 55'	1° 47W.	III	m.	25 25	Forestry Commission.
Rugby (School) ..	147	4	Warwick ..	52° 22'	1° 15W.	III	m.	29 —	The Headmaster.
Rugby (Lawrence Sheriff School) ..	147/1	4	Warwick ..	52° 22'	1° 15W.	III	—	— —	G. H. Thompson, Esq., F.R. Met. Soc.
Ruscombe ..	163/7	4	Gloucester ..	51° 46'	2° 14W.	III	—	— —	B. D. Parkin, Esq.
Ruthwell ..	70	6	Dumfries ..	55° 0	3° 26W.	II	m.	25 26	William Brown, for the Earl of Mansfield.
Ryde ..	221	5	Isle of Wight ..	50° 44'	1° 10W.	III H.	m.	22 22	Borough Engineer and Surveyor.
Rye ..	192/5	5	Kent ..	50° 58'	0° 48E.	II	m.	— —	Meteorological Office.
St. Abb's Head ..	45/5	1	Berwick ..	55° 55'	2° 8W.	T.	D,M.	— —	Chief Officer, R.N. Signal Station (M.O.).
St. Albans (Hertford Inst. of Agriculture) ..	110	3	Hertford ..	51° 46'	0° 18W.	III	m.	12 —	The Principal.
St. Andrews ..	39	1	Fife ..	56° 20'	2° 47W.	III H.	m.	18 23	Burgh Engineer.
St. Ann's Head (C. Guard Stn.) ..	263	8	Pembroke ..	51° 41'	5° 10W.	T.	D,W,M, μ .	15 30	Station Officer (M.O.).
St. Athan ..	267/8	8a	Glamorgan ..	51° 25'	3° 25W.	I	—	— —	Meteorological Office.
St. Catherine's Point (C. Guard Stn.) ..	221/5	5	Isle of Wight ..	50° 35'	1° 17W.	T.	m.	— —	Chief Officer, R.N. Signal Station (M.O.).
St. Eval ..	302/4	8b	Cornwall ..	50° 28'	459W.	I	D,M.	— —	Meteorological Office.
St. Heliers ..	336								<i>See Jersey.</i>
St. Ives ..	188/5								<i>See Bingley.</i>
St. James's Park ..	178								<i>See London.</i>
St. Mellion (Ellbridge Exp. Stn.) ..	295/5	8	Cornwall ..	50° 27'	4° 15W.	III C.W.	m.	— —	The Horticultural Superintendent.
Sandown (Sandham Gdns.) ..	222	5	Isle of Wight ..	50° 39'	1° 9W.	III H.	m.	27 30	The Town Clerk.
Santon Downham ..	101/6	3	Suffolk ..	52° 27'	0° 40E.	III C.W.	m.	— —	Forestry Commission.
Scarborough ..	82	2	Yorkshire (N.R.) ..	54° 17'	0° 24W.	III H.	W,M.	25 30	Medical Officer of Health.
Scilly (C. Guard Stn.) ..	334	11	Cornwall ..	49° 56'	6° 18W.	T.A.	D,W,M, μ .	15 30	Station Officer (M.O.).
Seaford ..	203	5	Sussex ..	50° 46'	0° 7E.	III H.	m.	— —	The Surveyor.
Sealand (Aerodrome) ..	254	7	Flint ..	53° 13'	3° 0W.	I	W,M, μ .	15 13	Meteorological Office.
Seaton ..	289/5	8	Devon ..	50° 42'	3° 4W.	III H.	m.	— —	U.D.C. (Lieut.-Col. H. Anderson-Neville).
Shaftesbury (C.E. School) ..	276	8	Dorset ..	51° 1	2° 12W.	III	m.	30 —	The Headmaster (M.O.).
Shawbury ..	153/5	4	Shropshire ..	52° 48'	2° 41W.	I	m.	— —	Meteorological Office.
Sheffield (Weston Park) ..	127	4	Yorkshire (W.R.) ..	53° 23'	1° 29W.	III	W ¹ ,m.	30 30	The Town Clerk.
Shipfield (Univ. Farm) ..	208	5	Berkshire ..	51° 25'	0° 57W.	III	m.	15 —	Professor J. A. Crowther.
Shipston-on-Stour ..	147/4	4	Warwick ..	52° 4	1° 42W.	III C.W.	m.	— —	A. W. Beecham, Esq.
Shoeburness (New Ranges) ..	116	3	Essex ..	51° 32'	0° 49E.	I	W,M, μ .	15 17	Meteorological Office.
Shrewsbury ..	154	4	Shropshire ..	52° 43'	2° 43W.	III H.	M.	18 —	Medical Officer of Health.
Shrewsbury (Frodesley Hall) ..	153/3	4	Shropshire ..	52° 36'	2° 33W.	III	—	— —	A. G. Fyshe, Esq.
Sidmouth ..	290	8	Devonshire ..	50° 41'	3° 14W.	III H.	m.	30 —	The Borough Surveyor.
Silverton (Killerton) ..	283	8	Devonshire ..	50° 48'	3° 27W.	III	m.	24 —	Rt. Hon. Sir F. D. Acland, Bart, P.C.
Skallary ..	5								<i>See Barra.</i>
Skegness ..	91	2	Lincolnshire ..	53° 9	0° 21E.	III H.	m.	25 30	The Surveyor.
Southampton ..	217	5	Hampshire ..	50° 51'	1° 24W.	II	W,M.	30 30	Director General of Ordnance Survey.
Southend ..	117	3	Essex ..	51° 30'	0° 45E.	III H.	m.	20 25	The Corporation (Pier Master).
South Farmborough (R.A.E.) ..	218	5	Hampshire ..	51° 17'	0° 45W.	I	M.	15 22	Meteorological Office.
Southgate ..	174/7								<i>See London.</i>
Southport ..	245	7	Lancashire ..	53° 37'	3° 0W.	II H.A.	W,M, μ .	30 30	The Town Clerk.
South Shields (South Pier Works) ..	74/5	2	Durham ..	55° 0	1° 26W.	A.	μ .	— —	Tyne Improvement Commission.
Sparkhill ..	144								<i>See Birmingham.</i>
Sprowston ..	95								<i>See Norwich.</i>
SpurnHead(Lighthouse) ..	88	2	Yorkshire (E.R.) ..	53° 34'	0° 7E.	T.A.	D,M, μ .	10 10	Chief Officer, R.N. Signal Station (M.O.).
Stirling (Sauchie House) ..	57	6	Stirling ..	56° 7	3° 56W.	III	m.	18 18	The Town Council. (John Fyfe).
Stonehaven ..	26	1	Kincardine ..	56° 58'	2° 12W.	III H.	m.	— —	The Town Council. (J. H. Gait).
Stonehouse ..	163/7	4	Gloucester ..	51° 46'	2° 17W.	III	m.	— —	B. D. Parkin, Esq.
Stonyhurst (College) ..	246	7	Lancashire ..	53° 51'	2° 28W.	II	W,M.	30 30	The Director.
Stormaway (C. Guard Lookout) ..	6	o	Hebrides ..	58° 11'	6° 21W.	T.A.	D,W,M, μ .	15 30	Station Officer (M.O.).
Strachur (Glenbranter) ..	51	6	Argyll ..	56° 8	5° 3W.	III	m.	10 —	Forestry Commission (Scotland).
Stratford-on-Avon ..	147/5	4	Warwick ..	52° 11'	1° 44W.	III C.W.	m.	— —	The Director.
Strathaven (Dungavel) ..	61	6	Lanark ..	55° 37'	4° 8W.	III	m.	25 —	A. K. Foulis, for the Duke of Hamilton and Brandon.

Station.	No.	Dist.	County.	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
			N.	,	,			Temp. Sun- shine,	
Strathy (Bowside)	8/5	0	Sutherland	58° 31'	4° 1W.	III	m.	— —	J. Edwards Moss, Esq.
Strelley	135	4	Nottingham	52° 58'	1° 15W.	III	—	— 30	Miss Edge.
Sutton Bonington	136	4	Nottingham	52° 50'	1° 15W.	III C.W.	m.	12 11	The Midland Agricultural College.
Swanage	276/5	8	Dorset	50° 37'	1° 57W.	III H.	m.	— —	The Clerk to the U.D.C.
Swansea (Victoria Park)	268	8	Glamorgan	51° 37'	3° 55W.	III	m.	23 26	The Town Clerk.
Talybont (Lletty-evan-hen)	261/5	7	Cardigan	52° 27'	3° 59W.	III C.W.	m.	— —	Professor R. G. Stapleton, M.A.
Tangmere	203/5	5	Sussex	50° 51'	0° 43W.	I	D.	— —	Meteorological Office.
Tavistock	291	8	Devonshire	50° 33'	4° 10W.	III	m.	24 —	W. J. Monk, Esq.
Teignmouth (Den Gardens)	292	8	Devonshire	50° 32'	3° 29W.	III H.	m.	25 30	G. F. Rossiter, Esq.
Tenby (The Priory)	264	8	Pembroke	51° 40'	4° 42W.	III H.	m.	— 30	The Town Clerk.
Terrington	95/3	3	Norfolk	52° 45'	0° 18E.	III C.W.	m.	— —	The Headmaster, Terrington C. Sch. for Director of Agricultural Education.
Thornaby	82/4	2	Yorks. N.R.	54° 32'	1° 18W.	I	M.	— —	Meteorological Office.
Thorney Island	203/7	5	Sussex	50° 51'	0° 43W.	I	D.M.	30 30	Meteorological Office.
Tiree	54	6	Argyll	56° 32'	6° 55W.	T.A.	W,D,M, μ .	10 10	Meteorological Office.
Tongland	70/6	6	Kirkcudbright	54° 52'	4° 2W.	III	—	— —	Galloway Water Power Co.
Torquay	293	8	Devonshire	50° 28'	3° 31W.	III H.	m.	25 30	The Town Clerk.
Totland Bay (Aston House)	223	5	Isle of Wight	50° 41'	1° 33W.	III H.	m.	— —	J. Dover, M.A.
Totnes	293/3	8	Devon	50° 27'	3° 43W.	III	m.	30 30	J. B. Patterson, Esq.
Troon	66	6	Ayr	55° 32'	4° 40W.	III H.	m.	— —	The Town Council. (M. S. Brodie, C.E.).
Tunbridge Wells (Calverley Park)	193	5	Kent	51° 8'	0° 16E.	III H.	M.	25 30	Medical Officer of Health.
Turnberry (Hotel)	67	6	Ayr	55° 19'	4° 50W.	III H.	m.	22 26	The Controller.
Tynemouth (C. Guard Stn.)	75	2	Northumberland	55° 1'	1° 25W.	T.	D,M,W ¹ .	15 —	Station Officer (M.O.).
Tynemouth	75	2	Northumberland	55° 1'	1° 25W.	(Sunsh. only)	D,M, ^o .	— —	Entertainments and Publicity Officer.
Ushaw (College)	79	2	Durham	54° 47'	1° 39W.	III	m.	30 —	The President.
Usk	270	8	Monmouth	51° 42'	2° 55W.	III	m.	11 11	Monmouthshire Agricultural Institution.
Valley	255	7b	Anglesey	53° 16'	4° 32W.	I	D,M.	— —	Meteorological Office.
Ventnor (R. Nat. Hospital)	224	5	Isle of Wight	50° 35'	1° 13W.	II	M.	30 30	Medical Superintendent.
Ventnor (Park)	224/5	5	Isle of Wight	50° 36'	1° 13W.	III H.	—	— —	Engineer and Surveyor.
Waddington	91/5	2	Lincoln	53° 10'	0° 31W.	I	—	— —	Meteorological Office.
Wakefield	128	4	Yorkshire (W.R.)	53° 40'	1° 30W.	III	m.	25 20	The Corporation.
Walsall	151/4	4	Stafford	52° 36'	1° 59W.	III	m.	— —	J. C. W. Day, Esq.
Walton-on-Naze	118	3	Essex	51° 51'	1° 16E.	III H.	m.	13 15	Engineer and Surveyor.
Warburton	250/7	7	Cheshire	53° 24'	2° 26W.	III C.W.	m.	— —	The University, Manchester.
Wealdstone	177/7								See London.
Welshpool (County School)	259	7	Montgomery	52° 39'	3° 8W.	III	m.	24 —	The Headmaster.
West Freugh	70/9	6a	Wigtown	54° 51'	4° 57W.	I	D,m.	— —	Meteorological Office.
West Kirby	251	7	Cheshire	53° 23'	3° 11W.	III	m.	10 —	Canon Eric F. Robson.
West Lavington	229/7	5	Wilts.	51° 17'	2° 0W.	III	—	— —	B. W. H. Coulson, Esq.
West Linton	47	1	Peebles	55° 45'	3° 21W.	III	m.	28 —	Dr. R. Graham Yooll.
West Malling	189	5	Kent	51° 17'	0° 24E.	I	M.	— —	Meteorological Office.
Westminster :—									} See London.
St. James's Park	178								
Training College	178								
Weston-super-Mare	273/5	8	Somerset	51° 21'	2° 59W.	III H.	m.	— 25	The Medical Officer of Health.
West Raynham	96/5	3	Norfolk	52° 47'	0° 44E.	I	D.	— —	Meteorological Office.
Weymouth (Westham)	277	8	Dorset	50° 36'	2° 27W.	III H.	m.	25 30	The Town Clerk.
Whipsnade	106/8	3	Bedford	51° 52'	0° 33W.	III	m.	— —	The Superintendent.
Whitby	83	2	Yorkshire (N.R.)	54° 29'	0° 37W.	III H.	m.	— —	The Park Superintendent.
Whistable	193/5	5	Kent	51° 22'	1° 2E.	III H.	m.	— —	The Engineer and Surveyor to the U.D.C.
Whitworth Park	241								See Manchester.
Wick (C. Guard Stn.)	8	0	Caithness	58° 26'	3° 5W.	T.	D,M,W.	15 —	Station Officer (M.O.).
Wilmington	193/7	5	Kent	51° 23'	0° 11E.	III	m.	— —	W. Corbett, Esq.
Wilmington (Church Walk)	193/8	5	Kent	51° 26'	0° 12E.	III	—	— —	L. H. Stone, Esq.
Wirksworth	131/5	4	Derbyshire	53° 5'	1° 34W.	III	—	— —	A. D. G. Smith, Esq.
Wisley	181								See Byfleet.
Wittering	142	4	Northants.	52° 37'	0° 28W.	I	—	— —	Meteorological Office.
Woburn	107	3	Bedford	52° 1'	0° 35W.	III C.W.	m.	30 30	Lawes Agricultural Trust.
Wolfeloe	49								See Hawick.
Woodbridge	101/7	3	Suffolk	52° 5'	1° 24E.	I	—	— —	Meteorological Office.
Worcester (Perdiswell)	157	4	Worcester	52° 13'	2° 13W.	III C.W.	m.	10 —	The Horticultural Superintendent.
Worthing	205	5	Sussex	50° 49'	0° 22W.	III H.	m.	25 30	The Medical Officer of Health.
Wrexham	256/8	7b	Denbigh	53° 33'	2° 59W.	III	m.	— —	S. E. Ashmore, Esq.
Writtle	118/2	3	Essex	51° 44'	0° 26E.	III C.W.	m.	— —	The Executive Officer.
Wye (S.E. Agric. College)	194	5	Kent	51° 11'	0° 57E.	III C.W.	m.	11 11	The Principal.
Wymeswold	139/7	4	Leicester	52° 47'	1° 8W.	I	M.	— —	Meteorological Office.
York (Bootham School)	84/5	2	Yorkshire (N.R.)	53° 57'	1° 5W.	(Sunsh. only)	W,M,W ¹ .	— 30	The Science Master.
" (Museum)	84	2	Yorkshire (N.R.)	53° 57'	1° 5W.	II	—	— 30	The Yorkshire Philosophical Society (Dr. W. L. Collinge, F.L.S.).
Yeovilton	273/7	8b	Somerset	51° 0'	2° 38W.	I	D,m.	— —	Meteorological Office.

AIR MINISTRY
METEOROLOGICAL OFFICE

12
M.O. 487

THE
MONTHLY WEATHER REPORT
FOR THE YEAR

1947

PUBLISHED BY THE
AUTHORITY OF THE METEOROLOGICAL
COMMITTEE

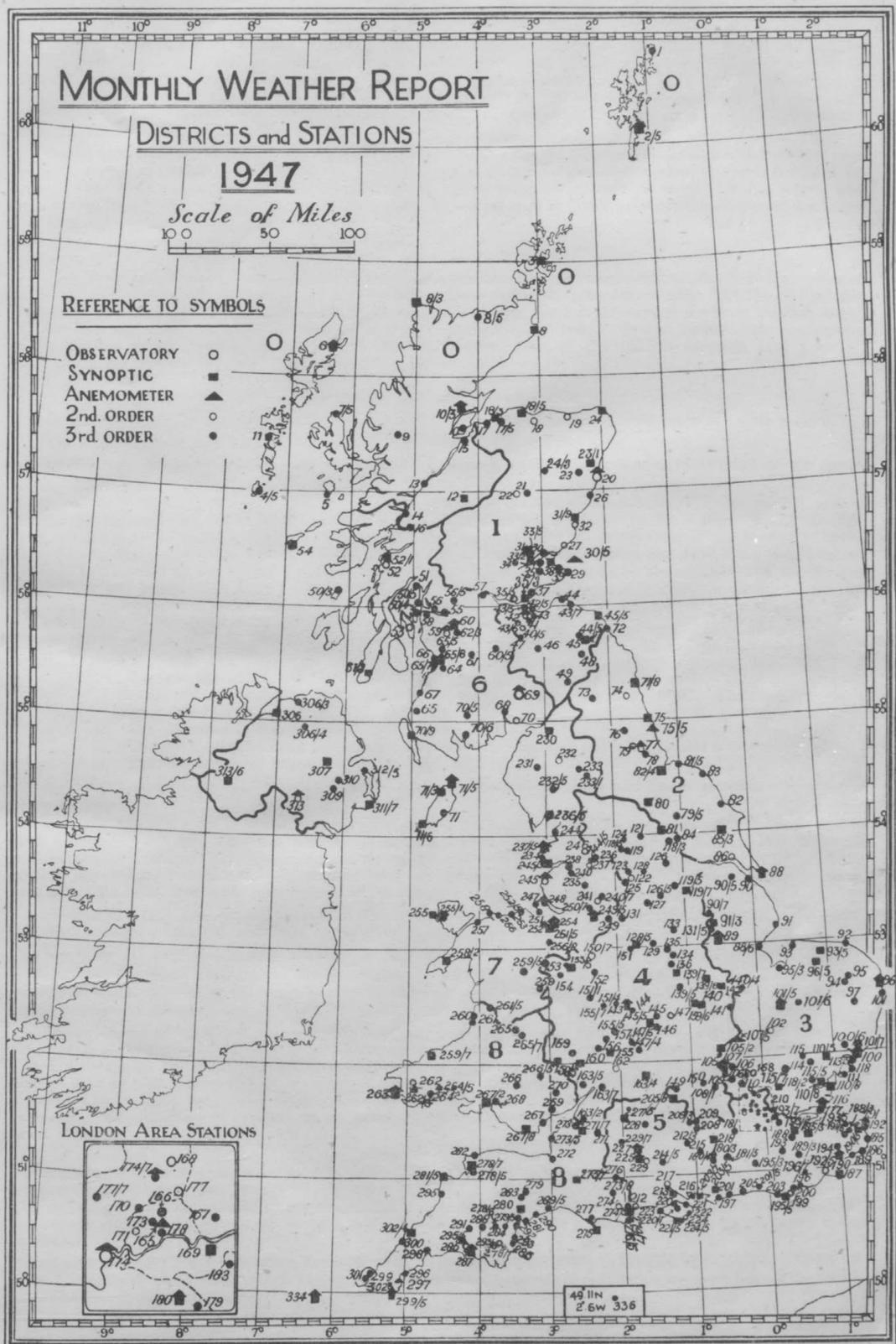


LONDON

HIS MAJESTY'S STATIONERY OFFICE

1948

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iii.

P R E F A C E

Up to 1921, the Monthly Weather Report was issued as a supplement to the Weekly Weather Report and included in the subscription to the latter. It is now treated as a separate publication. The Report gives a resumé of observations from stations in the British Isles, and takes the place of the summaries printed up to the end of 1907 in Parts II and III of the annual volumes of "Observations at Stations of the Second Order" as well as the former "Monthly Summary" to the Weekly Weather Report. Particulars of the methods adopted in taking the observations are given in the *Meteorological Observer's Handbook*, M.O. 191.

On the establishment of a meteorological service in Eire in April, 1937, the climatological stations in that country came under the control of the Director of that Service, but climatological records for Eire were received and published up to the end of 1940. Data were not received for 1947, but the maps of pressure, temperature and sunshine in this volume have been drawn, from such information as was available from various sources, to give a provisional indication of conditions over Eire.

INFORMATION FOR PREVIOUS YEARS

Monthly summaries of observations made at stations in connexion with the Meteorological Office were first published in 1869 in the "Quarterly Weather Report," a publication issued for each of the years 1869 to 1880. The Monthly Weather Report commenced in 1884. The gap is bridged for telegraphic stations by a supplement to the Daily Weather Report and for other stations by tables in "Observations at Stations of the Second Order." A brief history of the development of the Monthly Weather Report will be found in the 1915 volume. Most of the changes made in later years are indicated in the preface.

GENERAL ARRANGEMENT OF THE REPORT

In January, 1945, changes were made in the times of observation and in the terminal hours at certain stations.

The arrangement of each issue of the Monthly Weather Report is as follows:—

a.—General remarks on the Weather over the British Islands under a brief heading descriptive of the special characteristics of the month.

b.—Table I.—Summaries for the Districts of the temperature of the air, of earth temperature, of rainfall, and of duration of bright sunshine, based on observations at the "district value" stations. In the absence of data for Eire, Guernsey and Jersey it became necessary in 1940 to replace Districts 9 and 10 by "Northern Ireland" and to replace District 11 by data for Scilly only. The stations from which the district values of temperature and rainfall are computed are indicated in Table III by the symbol \ddagger and the corresponding stations for sunshine by the symbol \S . A list of these stations is printed below. The stations used in computing the district values of earth temperature are shown on page iv. The method of computations is explained in the "Notes on Table I to IV" printed with the Annual Summary.

c.—Table II.—Summary of autographic records of wind.

All the records are obtained from instruments of the Dines Pressure Tube type.

d.—A plate of four maps showing:—

- i. The monthly distribution of pressure and winds at 9 h., based on observations at selected stations: also the average distribution of pressure at 9 h. for the month for the period 1901-1930. The monthly pressure map is based on data for 9 h.
- ii. The movements of depressions.
- iii. The distribution of mean temperature at sea level over the land and in the coastal waters.
- iv. The distribution of bright sunshine in hours per day.

e.—A full page map showing by means of isohyetal lines the distribution of the month's precipitation. This map is based on data from about 2,000 stations.

f.—Table III, giving for individual stations summaries of the records of extreme and mean air temperature and of earth temperature at 1 foot and 4 feet, rainfall and sunshine, and of weather observations. In January, 1945, at certain stations the period covered by the maximum readings was changed from 6-18 to 9-21; the period covered by the minimum readings was changed from 18-6 to 21-9, and the rainfall day was changed from 6-6 to 9-9. In the case of air temperature, rainfall and sunshine, differences from average or percentages of average are given when available.

g.—Table III (a).—Observations of duration of starlight at the Royal Observatory, Greenwich, at Porton, Wilts. and at Rye, Kent during the latter half of the year, and of cloud and fog by day at Greenwich.

h.—Table III (b).—Direct solar radiation at Kew Observatory.

i.—Table IV, giving summaries of the observations of pressure, temperature, humidity, cloud, visibility and wind, made at set hours. The hours, not being the same for all stations, are indicated in the Table. At certain stations the hours of observation were changed from 0, 6, 12 and 18h. to 3, 9, 15 and 21h. in January, 1945.

Tables III and IV together include the items comprised in the international form of monthly climatological summary, the Form B of the Report of the International Meteorological Committee, 1874; and they give, in addition, information regarding the duration of bright sunshine, earth temperature at 1 foot and 4 feet (both from 1906), the number of observations of wind of force 4-5 and 6-7 on the Beaufort Scale (from 1937), of winds of force 1-3 (from 1923), the number of days of ground frost, i.e., minimum temperature on the grass, 30.4°F. and below (from 1908), and the pressure at mean sea level (from 1912).

LIST OF STATIONS

A complete list of the climatological stations in Tables III and IV and of the anemograph stations in Table II was published last year for the first time since 1940. Only changes to that list, i.e., additions and deletions, are being published this year. The stations printed in italics send in monthly returns but do not appear in the report. For information regarding the anemograph stations, reference should be made to the Annual Summary. The positions of the stations are shown in the Frontispiece.

In the Tables of the Monthly Weather Report the stations are arranged according to Districts and Counties. In the list printed herewith the alphabetical order is adopted. The latitude and longitude of each station are given, but not the height, as that is shown in the monthly issues.

Classification of stations.—Stations are classified as follows:—

- I. Normal Meteorological Observatory; Station of the First Order.—Continuous records or hourly readings of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form and motion of the clouds, and notes on the weather. Observatories and the principal synoptic stations maintained on aerodromes for supplying information to the Royal Air Force or to civil aviation services are included.
- II. Normal Climatological Station.—Daily observations at least twice a day, generally at 9 h. (9 a.m.) and 21 h. (9 p.m.) G.M.T. of pressure, temperature (wet and dry-bulb), wind, amount of cloud, and weather, with the daily maximum and minimum of temperature, the daily rainfall, and remarks on the weather. Observations of the range of visibility and records of sunshine are commonly obtained at these stations also. In this category are included all the stations of the second order of the International Classification and a few stations of the third order.
- III. Auxiliary Climatological Station, at which observations similar to those of a normal climatological station are made once a day only, generally at 9 h. (9 a.m.) G.M.T. This category includes most of the stations of the third order of the International Classification.
- T. Synoptic Reporting Station.—Daily observations are reported at 3 h., 9 h., 15 h. and 21 h., similar in general character to those taken at Normal Climatological Stations. At most synoptic stations, observations are also made at 0 h., 6 h., 12 h. and 18 h., G.M.T.
- II C. W.; III C. W. Normal Climatological Station or Auxiliary Climatological Station which is also a Crop Weather Station.—Crop Weather stations are stations which participate in the scheme for the investigation of the relationship between weather and crops inaugurated by the Ministry of Agriculture and the Board of Agriculture for Scotland in co-operation with the Meteorological Office.
- II H.; III H. Normal Climatological Station or Auxiliary Station which is also a Health Resort Station.—These Stations normally make special observations at 17 h. (5 p.m.) G.M.T. which are reported to this Office by telegram for communication to the newspaper press. This scheme has lapsed during the war period.
- A.; Anemometer Station for which summaries are published in Table II (Autographic Records of Wind) of the Monthly Weather Report.

The publications for which the returns are prepared are indicated by the following letters:—

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D. Daily Weather Report. Full return. | m. Monthly Weather Report. Table III, not Table IV. |
| W. Weekly Weather Report. Temperature, rainfall, in most cases sunshine, and in some cases ground temperature. (Last volume published is that for 1938-39). | μ . Monthly Weather Report. Wind velocity.
m_o . Monthly Weather Report. Sunshine only. |
| w. Weekly Weather Report. Sunshine only. | O. The Observatories' Year Book.—This publication contains hourly values of meteorological and magnetic elements, diurnal inequalities for magnetism and for atmospheric electricity, absolute observations of magnetism and atmospheric electricity, seismological tables, upper air data, etc. |
| W ¹ . Registrar-General's Weekly Summary. | |
| M. Monthly Weather Report. Table III (Temperature extremes, rainfall and weather); and Table IV (Pressure, humidity, &c.). | |

DISTRICT VALUE STATIONS, 1947

The following are the stations, summaries from which are used for the computation of the district values of temperature, rainfall, earth temperature and sunshine, Table I:—

TR, Temperature and Rainfall: E1, Earth Temperature at 1 foot: E4, Earth Temperature at 4 feet: S, Sunshine.

DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.
o	Fort Augustus ..	TR - - S	4	Birmingham ..	TR E1 E4 S	8	Bath ..	TR E1 E4 S
	Inverness ..	TR - - S		Bradford ..	- E1 E4 -		Cardiff ..	- E1 E4 -
	Wick ..	TR - - -		Buxton ..	- E1 E4 -		Cullompton ..	TR E1 - S
	Lerwick ..	TR - - S		Harrogate ..	TR E1 E4 S		Falmouth ..	TR E1 E4 S
	Stornoway ..	TR - - S		Huddersfield ..	- E1 E4 -		Ilfracombe ..	- E1 E4 -
1	Aberdeen ..	TR - - S		Nottingham ..	TR E1 E4 S		Plymouth ..	- E1 -
	Dundee ..	TR - - S		Oxford ..	TR - - S		Rhayader ..	TR - - S
	Edinburgh ..	TR - - S		Ross-on-Wye ..	TR - - S		St. Ann's Head ..	TR - - S
	Marchmont ..	TR - - S		Sheffield ..	- E1 E4 -		Swansea ..	- E1 E4 -
	Nairn ..	TR - - S						
6	Dumfries ..	TR E1 E4 S	5	Bournemouth ..	- E1 E4 -			
	Eskdalemuir ..	TR - - S		Hastings ..	TR E1 E4 S			
	Tiree ..	TR - - S		Camden Square ..	- E1 E4 -			
	Renfrew ..	TR - - S		Kew Obs. ..	TR E1 E4 S			
	Rothesay ..	TR E1 E4 S		Margate ..	TR E1 E4 S			
2	Cockle Park ..	TR E1 E4 S		Marlborough ..	TR - - S			
	Cranwell ..	TR - - S		Southampton ..	TR - - S			
	Durham ..	TR - - S		Tunbridge Wells ..	- E1 -			
	Hull ..	- E1 E4 -		Wisley ..	- E1 E4 -			
	Scarborough ..	TR - - S						
	York ..	TR E1 E4 S						
3	Cambridge ..	TR E1 E4 S	7	Bidston ..	TR - - S			
	Shoeburyness ..	TR - - S		Bolton ..	- E1 E4 -			
	Lowestoft ..	- E1 E4 -		Burnley ..	- E1 E4 -			
	Norwich ..	TR E1 - S		Darwen ..	- E1 E4 -			
	Rothamsted ..	TR - - S		Holyhead ..	TR - - S			
	Gorleston ..	TR E1 E4 S		Newton Rigg ..	TR - - S			
				Southport ..	TR E1 E4 S			
				Stonyhurst ..	TR - - S			

* Terminated 31/10/47.

HEIGHTS OF STATIONS ABOVE MEAN SEA LEVEL

In 1933 it was announced by the Ordnance Survey that in future mean sea level at Newlyn (Cornwall) should be adopted as the standard of reference for heights in the British Isles in place of Liverpool. The heights given in this publication are above the old ordnance datum. At those stations where the new height would differ from the old height by one foot or more, a correction to obtain the new height was given in the Introductions 1939 to 1941. The new heights are not yet adopted in this publication because they cannot in all cases be regarded as final and as the whole area has not yet been re-surveyed.

ADDITIONAL RECORDS AVAILABLE FOR 1947

Details of some additional records received for 1947 which are not summarised in the Monthly Weather Report:—

(a) Returns on Form 3206 have been received for the hours set out below in addition to those summarised in Table IV:—

	<i>Hours</i>		<i>Hours</i>		<i>Hours</i>		<i>Hours</i>
Aberporth . . .	o, 6, 12, 18	Gorleston . . .	6, 12, 18	Mount Wise . . .	6, 12, 18	Spurn Head . . .	6, 12, 18
Bristol . . .	o, 6, 12, 18	Fairwood Common . . .	o, 6, 12, 18	Pembroke Docks . . .	o, 6, 12, 18	St. Ann's Head . . .	o, 6, 12, 18
Calshot . . .	o, 6, 12, 18	Larkhill . . .	12	Point of Ayre . . .	6, 12, 18	Tangmere . . .	o, 6, 12, 18
Cranwell . . .	o, 6, 12, 18	The Lizard . . .	6, 12, 18	Portland Bill . . .	o, 6, 12, 18	Tynemouth . . .	o, 6, 12, 18
Croydon . . .	o, 6, 12, 18	Lympne . . .	o, 6, 12, 18	Ross on Wye . . .	6, 12, 18	Waddington . . .	o, 6, 12, 18
Dunstable . . .	o, 6, 12, 18	Lyneham . . .	o, 6, 12, 18	Ringway . . .	o, 6, 12, 18	West Malling . . .	o, 6, 12, 18
Edgbaston . . .	6, 12, 18	Manston . . .	o, 6, 12, 18	Shawbury . . .	o, 6, 12, 18	Woodbridge . . .	o, 6, 12, 18
Exeter . . .	o, 6, 12, 18						

(b) For certain stations hourly tabulations for 1947 are available of wind force and direction, rainfall duration and amount, and duration of sunshine, and the list is given below where, W, R and S stand for hourly values of wind, rainfall and sunshine:

Aberdeen W	Defford S, R	Leeming S, R	Scilly W*
Aberporth W, S, R	Dover W (Oct.-Dec.)*	Leicester W*	Sealland W
Abingdon R	Dungeness W (Jan.-July)*	Lerwick W, S	Shawbury R (June-Dec.)
Acklington S, R	Dunstable W, S	Leuchars S, R	Shoebutyress W
Aldersgrove W (Jan.-June) S, R	Dyntse S, R	Linton-on-Ouse W	South Farmboro' W, S, R
Armagh R*	Eskdalemuir W	Little Rissington S, R	Southgate W
Aust W (May-Dec.)*	Exeter S, R	Lizard W*	Southport W*
Bally Kelly S, R	Fairwood Common S, R	Long Ashton W (Jul.-Dec.)*	South Shields W
Beachley W (May-Dec.)*	Falmouth S	Lympne W, S, R	Speke S
Bell Rock W	Felixstowe W, S, R	Lyneham R	Spurn Head W*
Birmingham W	Feltham (L.A.P.) R	Manchester (R'way) W, S, R	Squires Gate S
Boscombe Down W, S, R	Finningley R	Manston W, S, R	Tangmere S, R
Boxted S (Jan.-May)	Fleetwood W*	Mildenhall W, S, R	Thorney I. W
Bristol S, R	Gorleston W (Jan.-June)*	Mount Wise S, R	Tiree W
Calshot S, R	Harwarden S, R	Pendennis W*	Valley S
Cardington W*	Hatston S, R (Apl.-Dec.)	Plymouth W	Waddington R
Carlisle (Kingstown) R	Holyhead W, S, R*	Prestwick W, R	West Freugh R
Castle Archdale S, R	Honily S, R	Renfrew W, S, R	West Malling S, R
Church Fenton R	Horsham-St.-Faith R	Rothampstead S	West Raynham S, R
Cranfield S, R (Mar.-Dec.)	Keswick R (Nov.-Dec.)	Rye W	Wicks (Jan.-June) R (Oct.-Dec.)
Cranwell W, S (Jan.) R	Kew W, S	St. Ann's Head W (Aug.-Dec.)	Wigtown R (July-Dec.)
Croydon W, S, R	Kingsway W	St. Eval S (Jan.-June) R	Wittering S, R

* Anemograms stored in Meteorological Office (M.O. 3)

The list of stations for which daily analyses of wind force and direction are available appear in Table II.

AVERAGES.

Rainfall (Table III).—The averages refer to the period 1881-1915 and are "weighted" if the record is not complete for that period. The averages of rainfall are given in the Book of Normals, Section V.

Pressure (Table IV).—The averages refer to 9h. G.M.T. for period 1901-1930 and have been "weighted" where necessary.

Temperature and Sunshine (Table III).—The averages in nearly all cases refer to periods of from 10 to 30 years ending 1935. The length of the period for each station is shown in the appropriate column of the List of Stations. Differences from averages of less than 30 years are printed in italics in the M.W.R.

The averages are given in the following publications:—

- (1) Averages of Temperature for the British Isles for periods ending 1935 (M.O. 407).
- (2) Averages of Bright Sunshine for the British Isles for periods ending 1935 (M.O. 408).

Earth Temperatures 1ft. and 4ft.—In general the averages cover the period 1911-1925.

STANDARDS OF TIME.

British Summer Time was in force from March 16th to Nov. 2nd and Double British Summer Time from April 13th to August 10th. In the first case clocks were one hour in advance of Greenwich Mean Time and in the second case two hours in advance. At all other times clocks referred to Greenwich Mean Time. Observers were recommended to make their observations at the same hours by Greenwich Mean Time throughout the year. At nearly all stations this recommendation was adopted, but in a very few cases circumstances made it necessary to adhere to the same hour by clock time. The actual hours of observation are given in Table III of the monthly issues. The stations at which the hours of observation are referred to Local Mean Time are given in the Notes to the Tables I-IV.

SEA-TEMPERATURE.

Returns of sea-temperatures are received by the Meteorological Office from certain ships, lightships and coast stations. The mean temperatures of the seas round the British Isles for the months of the year 1947 are shown by figures within circles on the maps in the monthly issues of this report. In general the values are derived from readings of ships under way, or from light vessels.

MONTHLY WEATHER REPORT, 1947—TABLE IV.—ADDITIONS AND CORRECTIONS

MONTH	PAGE	STATION	Hour of Observation Height of Barometer above Mean Sea Level	MEASURE PRESSURE		TEMPERATURE AND HUMIDITY		CLOUD AMOUNT					VISIBILITY					WIND, NUMBER OF OBSERVATIONS												
				At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Rel. Humidity	Mean Amount	No. of OBSERVATIONS	NUMBER OF OBSERVATIONS					FORCE (0 TO 12)					DIRECTION								
										o	1	2	3	4	5	6	7	8	9	8 or more	6 to 7	4 to 5	1 to 3	Calm	N	NE	E	SE	S	SW
January	11	Cape Wrath	3 mb 1000.3	mb	mb	°F.	°F.	mb	%	6	14	9	3	0	0	0	0	0	0	12	10	1	4	II	I	5	5	0	0	
"	"	"	3 mb 1010.0	30.4	2.4	6.4	2.4	2.3	21	0	0	0	0	0	0	0	0	0	0	18	13	3	2	0	0	5	5	2	1	
"	"	"	27 mb 1009.3	30.0	2.0	6.0	2.0	2.0	24	0	0	0	0	0	0	0	0	0	0	18	13	3	2	0	0	5	5	2	1	
"	12	Leeming	27 mb 1009.3	40.2	2.0	6.2	2.0	2.3	24	0	0	0	0	0	0	0	0	0	0	14	16	1	1	15	15	1	1	7	4	
"	14	Pembroke Dock	21 109	39.4	2.6	6.2	2.6	2.3	24	0	10	5	12	4	0	0	0	0	0	15	15	1	1	15	15	1	1	7	4	
"	"	"	9 47	1013.2	—	39.7	1.6	7.3	86	6.1	4	9	1	4	13	0	0	0	0	0	12	10	1	0	0	0	5	5	2	1
"	"	"	9 47	1013.2	39.5	1.6	7.4	86	6.7	3	0	1	4	14	7	0	0	0	0	12	13	3	0	0	0	5	5	2	1	
"	"	"	15 47	1012.3	42.0	2.4	7.7	80	7.9	0	3	5	12	12	0	0	0	0	0	17	17	1	1	14	15	1	1	5	5	2
"	"	"	27 47	1012.9	40.6	2.0	7.4	83	5.7	6	5	6	2	12	0	0	0	0	0	12	11	5	0	1	3	15	15	1	6	4
"	15	Plymouth (Mt. Wise)	9 31	1014.5	—	2.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
February	29	Wymewold	3 275	1010.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	13	10	3	2	0	0	5	5	2
"	"	"	9 275	1009.9	27.0	0.5	4.6	0.9	9.1	1	1	4	21	0	0	0	0	0	0	14	15	1	1	12	13	0	0	4	4	2
"	"	"	15 275	1009.5	29.9	1.2	4.9	0.8	9.4	0	0	2	3	23	0	0	0	0	0	15	15	1	1	12	13	0	0	4	4	2
March	45	Nottingham	27 275	1009.9	27.4	0.5	4.7	0.9	9.0	0	1	3	22	0	0	0	0	0	0	15	12	1	1	13	13	0	0	0	0	3
"	47	Plymouth (Mt. Wise)	9 215	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
April	60	Tynemouth	9 31	1001.3	—	1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	61	Cambridge	15 122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	"	"	21 43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	"	"	21 225	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	"	"	21 152	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
May	79	Harland Pt.	21 305	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
July	108	Cranfield	9 350	1014.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	110	Hawarden	9 245	1015.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	111	Portland Bill	21 37	1015.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
August	124	Spurn Head	21 57	1015.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sept.	141	Wesley	9 85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	142	Calshot	21 12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
October	157	Honiley	15 431	1021.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	158	Holmehead (Valley)	15 39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
November	173	Church Fenton	21 20	1010.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	174	St. Ann's Hd.	15 152	1012.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
December	191	Plymouth (Mt. Wise)	21 31	1018.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	"	Aldergrove	3 271	1014.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	"	"	15 271	1015.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

MONTHLY WEATHER REPORT, 1947, LIST OF STATIONS—ADDITIONS AND MODIFICATIONS

(a) Additions.

Station	No.	Dist.	County	Lat.	Long.	Classification	Publication	Averages (number of years).	Authority
(a) Birtley	75/5	2	Durham	54 54	1 35W	III	—	—	Durham Chemicals Ltd.
Brighton (Old Steyne)	198	5	Sussex	50 49	0 8W	III H.	—	—	The Corporation Waterworks.
East Budleigh (Bicton Old Rec.)	278/7	8	Devon	50 14	0 8W	III	—	—	Col. O. M. Dyke.
Falkirk	56/7	6	Stirling	56 0	3 48W	III	—	—	The Sanitary Inspector.
Feltham (London Airport)	168/5	5	London	51 29	0 27W	I	—	—	The Meteorological Office.
Glenlivet	19/5	1	Banff	57 17	3 17E	III	—	—	Mrs. Barnet.
Glenridding (Peebles Forestry Training School)	35/7	1	Peebles	55 40	3 10W	III	—	—	Forestry Commission.
Hastings (White Rock)	202/5	5	Sussex	50 51	0 34E	III H.	m. M.	23 29	Town Clerk.
Hatston (Airport)	3	0	Orkney	58 29	2 58W	I	—	—	Meteorological Office.
Herne Bay (Anne's Home)	189/5	5	Kent	55 22	1 7E	III H.	—	—	U.D.C.
Lauder (The Roan)	40/5	1	Selkirk	55 41	2 43W	III	—	—	H. H. Gowan, Esq.
Largs (Woodbank)	65/6	6	Ayre	55 47	4 52W	III	—	—	Alec Simpson, Esq.
Llandrindod Wells (The Common)	264/7	8	Radnor	52 14	3 22W	III	—	—	U.D.C.
Lundin Links	38/3	1	Fife	56 13	2 57W	III	—	—	Largs and District Community Council.
Lyonshall (The Wittern)	159/5	4	Hereford	53 13	2 58W	III	—	—	R. H. Green, Esq.
Northwick (Wimington)	249/2	7	Cheshire	53 16	2 32W	III	—	—	I.C.I. Ltd.
Ramsgate	192	5	Kent	51 20	1 26E	III H.	—	—	Borough Engineer.
Rochdale	244/7	7	Lancs.	53 38	2 10W	III	—	—	Borough Surveyor.
Shanklin (Big Meade)	221/3	5	Isle of Wight	50 38	1 10W	III	—	—	Sandown and Shanklin U.D.C.
Wigtown	70/9	5	Wigtown	54 52	4 27W	I	—	—	Meteorological Office.
Wirksworth (Cromford Road)	131/5	4	Derbyshire	53 5	1 34W	III	—	—	Alan D. G. Smith, Esq.

(b) Ashbourne, Bradwell Bay, Bridlington (School), Brough Sowerby, Chivenor, Desborough, Holton Heath, Jurby, Linton-on-Ouse, Machrihanish, Mayfield, Newtownards (Mount Stewart), Predannick, Prestwood, Sealand (Aerodrome), Silverton (Killerton), Stonehouse, Terrington, Thornaby, Thorney Island, Warburton, Westminster (Training College), Yeovilton.

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FOR THE YEAR
1948



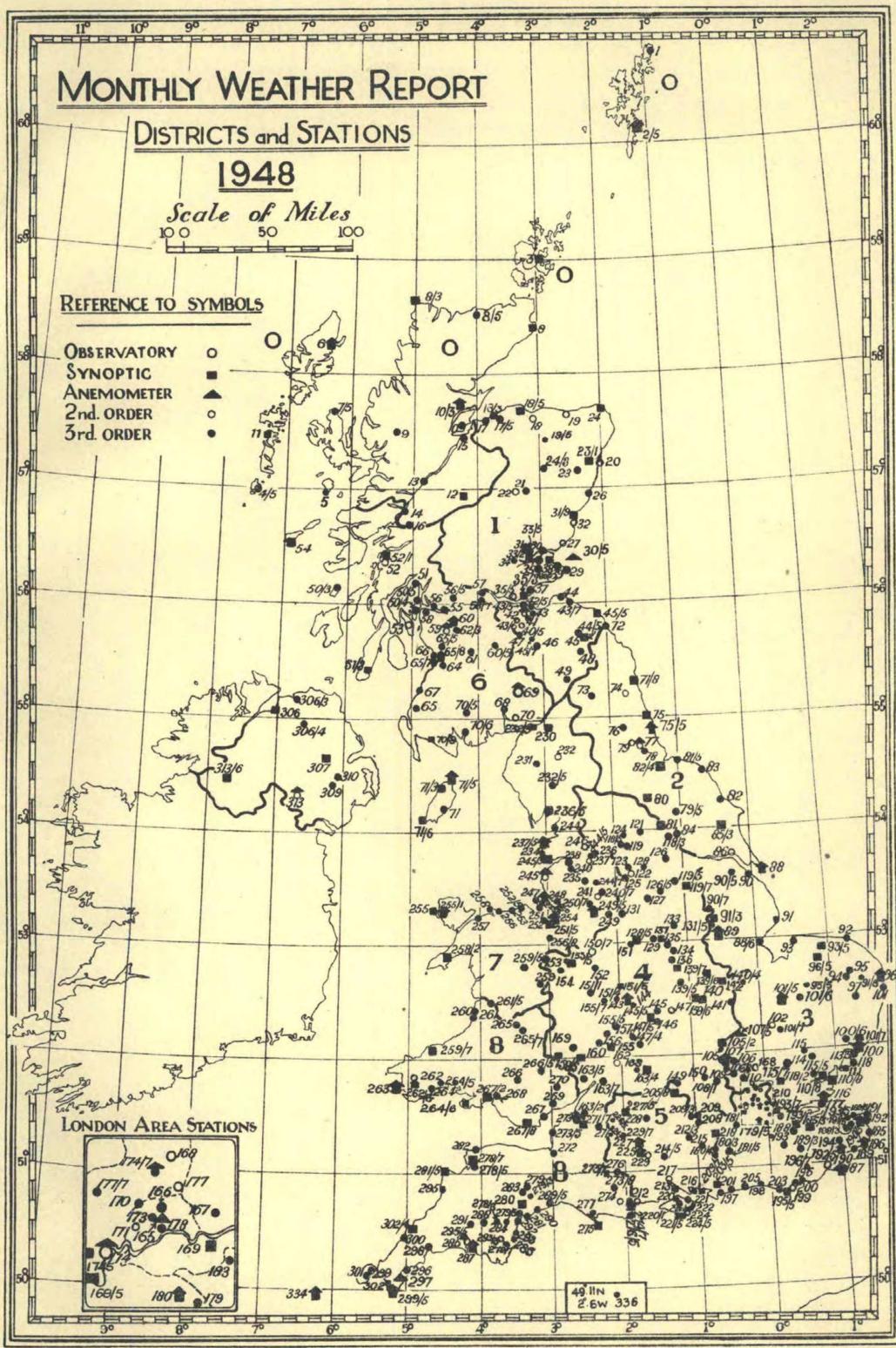
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iii.

INTRODUCTION

Up to 1921, the Monthly Weather Report was issued as a supplement to the Weekly Weather Report and included in the subscription to the latter. It is now treated as a separate publication. The Report gives a resumé of observations from stations in the British Isles, and takes the place of the summaries printed up to the end of 1907 in Parts II and III of the annual volumes of "Observations at Stations of the Second Order" as well as the former "Monthly Summary" to the Weekly Weather Report. Particulars of the methods adopted in taking the observations are given in the *Meteorological Observer's Handbook*, M.O. 191.

On the establishment of a meteorological service in Eire in April, 1937, the climatological stations in that country came under the control of the Director of that Service, but climatological records for Eire were received and published up to the end of 1940. The isolines on the maps of pressure, temperature and sunshine in this volume have been extended over Eire from data kindly supplied by the Director of the Meteorological Service, Dublin.

INFORMATION FOR PREVIOUS YEARS

Monthly summaries of observations made at stations in connexion with the Meteorological Office were first published in 1869 in the "Quarterly Weather Report," a publication issued for each of the years 1869 to 1880. The Monthly Weather Report commenced in 1884. The gap is bridged for telegraphic stations by a supplement to the Daily Weather Report and for other stations by tables in "Observations at Stations of the Second Order." A brief history of the development of the Monthly Weather Report will be found in the 1915 volume. Most of the changes made in later years are indicated in the introduction.

GENERAL ARRANGEMENT OF THE REPORT

In January, 1945, changes were made in the times of observation and in the terminal hours at certain stations.

The arrangement of each issue of the Monthly Weather Report is as follows:—

a.—General remarks on the Weather over the British Islands under a brief heading descriptive of the special characteristics of the month.

b.—Table I.—Summaries for the Districts of the temperature of the air, of earth temperature, of rainfall, and of duration of bright sunshine, based on observations at the "district value" stations. In the absence of data for Eire, Guernsey and Jersey it became necessary in 1940 to replace Districts 9 and 10 by "Northern Ireland" and to replace District 11 by data for Scilly only. The stations from which the district values of temperature and rainfall are computed are indicated in Table III by the symbol \ddagger and the corresponding stations for sunshine by the symbol \S . A list of these stations is printed below. The stations used in computing the district values of earth temperature are shown on page iv. The method of computations is explained in the "Notes on Table I to IV" printed with the Annual Summary.

c.—Table II.—Summary of autographic records of wind.

All the records are obtained from instruments of the Dines Pressure Tube type.

d.—A plate of four maps showing:—

- i. The monthly distribution of pressure and winds, based on observations at selected stations at 9 h.: also the average distribution of pressure at 9 h. for the month for the period 1901-1930.
- ii. The movements of depressions.
- iii. The distribution of mean temperature at sea level over the land and in the coastal waters.
- iv. The distribution of bright sunshine in hours per day.

e.—A full page map showing by means of isohyetal lines the distribution of the month's precipitation. This map is based on data from about 2,000 stations.

f.—Table III, giving for individual stations summaries of the records of extreme and mean air temperature and of earth temperature at 1 foot and 4 feet, rainfall and sunshine, and of weather observations. In January, 1945, at certain stations the period covered by the maximum readings was changed from 6-18 to 9-21; the period covered by the minimum readings was changed from 18-6 to 21-9, and the rainfall day was changed from 6-6 to 9-9. In the case of air temperature, rainfall and sunshine, differences from average or percentages of average are given when available.

In January, 1948, Monmouth was transferred from District 8b to District 8a.

g.—Table III (a).—Observations of duration of starlight at selected stations and of cloud and fog by day at Greenwich.

h.—Table III (b).—Direct solar radiation and Intensity of Daylight at Kew Observatory.

i.—Table IV, giving summaries of the observations of pressure, temperature, humidity, cloud, visibility and wind, made at set hours. The hours, not being the same for all stations, are indicated in the Table. At certain stations the hours of observation were changed from 0, 6, 12 and 18h. to 3, 9, 15 and 21h. in January, 1945.

Tables III and IV together include the items comprised in the international form of monthly climatological summary, the Form B of the Report of the International Meteorological Committee, 1874; and they give, in addition, information regarding the duration of bright sunshine, earth temperature at 1 foot and 4 feet (both from 1906), the number of observations of wind of force 4-5 and 6-7 on the Beaufort Scale (from 1937), of winds of force 1-3 (from 1923), the number of days of fog (from 1906), the number of observations of different degrees of visibility (from 1923), the number of days of ground frost, i.e., minimum temperature on the grass, 30.4°F. and below (from 1908), and the pressure at mean sea level (from 1912).

LIST OF STATIONS

A complete list of the climatological stations in Tables III and IV and of the anemograph stations in Table II was published in 1946 for the first time since 1940. Only changes to that list, i.e., additions and deletions, are being published this year. The stations printed in italics send in monthly returns but do not appear in the report. For information regarding the anemograph stations, reference should be made to the Annual Summary. The positions of the stations are shown in the Frontispiece.

In the Tables of the Monthly Weather Report the stations are arranged according to Districts and Counties. In the list printed herewith the alphabetical order is adopted. The latitude and longitude of each station are given, but not the height, as that is shown in the monthly issues.

Classification of stations.—Stations are classified as follows:—

- I. Normal Meteorological Observatory; Station of the First Order.—Continuous records or hourly readings of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form and motion of the clouds, and notes on the weather. Observatories and the principal synoptic stations maintained on aerodromes for supplying information to the Royal Air Force or to civil aviation services are included.
- II. Normal Climatological Station.—Daily observations at least twice a day, generally at 9 h. (9 a.m.) and 21 h. (9 p.m.) G.M.T. of pressure, temperature (wet and dry-bulb), wind, amount of cloud, and weather, with the daily maximum and minimum of temperature, the daily rainfall, and remarks on the weather. Observations of the range of visibility and records of sunshine are commonly obtained at these stations also. In this category are included all the stations of the second order of the International Classification and a few stations of the third order.
- III. Auxiliary Climatological Station, at which observations similar to those of a normal climatological station are made once a day only, generally at 9 h. (9 a.m.) G.M.T. This category includes most of the stations of the third order of the International Classification.
- T. Synoptic Reporting Station.—Daily observations are reported at 3 h., 9 h., 15 h. and 21 h., similar in general character to those taken at Normal Climatological Stations. At most synoptic stations, observations are also made at 0 h., 6 h., 12 h. and 18 h., G.M.T.
- II C. W.; III C.W. Normal Climatological Station or Auxiliary Climatological Station which is also a Crop Weather Station.—Crop Weather stations are stations which participate in the scheme for the investigation of the relationship between weather and crops inaugurated by the Ministry of Agriculture and the Board of Agriculture for Scotland in co-operation with the Meteorological Office.
- II H.; III H. Normal Climatological Station or Auxiliary Station which is also a Health Resort Station.—These stations normally make special observations at 18 h. Clock Time (and in some cases at 9 h. Clock Time in addition) which are reported to this Office by telegram for communication to the newspaper press.
- A.; Anemometer Station for which summaries are published in Table II (Autographic Records of Wind) of the Monthly Weather Report.

The publications for which the returns are prepared are indicated by the following letters:—

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D. Daily Weather Report. Full return. | m. Monthly Weather Report. Table III, not Table IV. |
| W. Weekly Weather Report. Temperature, rainfall, in most cases sunshine, and in some cases ground temperature. (Last volume published is that for 1938-39). | μ . Monthly Weather Report. Wind velocity. |
| w. Weekly Weather Report. Sunshine only. | m _o . Monthly Weather Report. Sunshine only. |
| W ¹ . Registrar-General's Weekly Summary. | O. The Observatories' Year Book.—This publication contains hourly values of meteorological and magnetic elements, diurnal inequalities for magnetism and for atmospheric electricity, absolute observations of magnetism and atmospheric electricity, seismological tables, upper air data, etc. (Last volume published is that for 1937.) |
| M. Monthly Weather Report. Table III (Temperature extremes, rainfall and weather); and Table IV (Pressure, humidity, &c.). | |

DISTRICT VALUE STATIONS, 1948

The following are the stations, summaries from which are used for the computation of the district values of temperature, rainfall, earth temperature and sunshine, Table I:—

TR, Temperature and Rainfall: E1, Earth Temperature at 1 foot: E4, Earth Temperature at 4 feet: S, Sunshine.

DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.	DIST.	STATION.	ELEMENT.
0	Fort William ..	TR - - S	4	Birmingham ..	TR E1 E4 S	8	Bath ..	TR E1 E4 S
	Inverness ..	TR - - S		Bradford ..	- E1 E4 -		Cardiff ..	- E1 E4 -
	Wick ..	TR - - -		Buxton ..	- E1 E4 -		Cullompton ..	TR E1 - S
	Lerwick ..	TR - - S		Harrogate ..	TR E1 E4 S		Falmouth ..	TR E1 E4 S
	Stornoway ..	TR - - S		Huddersfield ..	- E1 E4 -		Ifracombe ..	- E1 E4 -
1	Craibstone ..	TR - - S		Nottingham ..	TR E1 E4 S		Plymouth ..	- E1 - -
	Dundee ..	TR - - S		Oxford ..	TR - - S		Rhayader ..	TR - - S
	Edinburgh ..	TR - - S		Ross-on-Wye ..	TR - - S		St. Ann's Head ..	TR - - S
	Marchmont ..	TR - - S		Sheffield ..	- E1 E4 -		Swansea ..	- E1 E4 -
	Nairn ..	TR - - S						
6	Dumfries ..	TR E1 E4 S	5	Bournemouth ..	- E1 E4 -			
	Eskdalemuir ..	TR - - S		Hastings ..	TR E1 E4 S			
	Tiree ..	TR - - S		Camden Square ..	- E1 E4 -			
	Renfrew ..	TR - - S		Kew Obs. ..	TR E1 E4 S			
	Rothesay ..	TR E1 E4 S		Margate ..	TR E1 E4 S			
2	Cockle Park ..	TR E1 E4 S		Marlborough ..	TR - - S			
	Cranwell ..	TR - - S		Southampton ..	TR - - S			
	Durham ..	TR - - S		Tunbridge Wells ..	- E1 - -			
	Hull ..	- E1 E4 -		Wisley ..	- E1 E4 -			
	Scarborough ..	TR - - S						
	York ..	TR E1 E4 S	7	Bidston ..	TR - - S			
3	Cambridge ..	TR E1 E4 S		Bolton ..	- E1 E4 -			
	Shoeburness ..	TR - - S		Burnley ..	- E1 E4 -			
	Lowestoft ..	- E1 E4 -		Darwen ..	- E1 E4 -			
	Sprowston ..	TR - - S		Holyhead ..	TR - - S			
	Rothamsted ..	TR - - S		Keswick ..	TR - - S			
	Gorleston ..	TR E1 E4 S		Southport ..	TR E1 E4 S			
				Stonyhurst ..	TR - - S			

† No 1 ft. and 4 ft. after Feb.

* No 4 ft. before Sept.

NORTHERN
IRELAND

v.

HEIGHTS OF STATIONS ABOVE MEAN SEA LEVEL

In 1933 it was announced by the Ordnance Survey that in future mean sea level at Newlyn (Cornwall) should be adopted as the standard of reference for heights in the British Isles in place of Liverpool. The heights given in this publication are above the old ordnance datum. At those stations where the new height would differ from the old height by one foot or more, a correction to obtain the new height was given in the Introductions 1939 to 1941. The new heights are not yet adopted in this publication because they cannot in all cases be regarded as final and as the whole area has not yet been re-surveyed.

ADDITIONAL RECORDS AVAILABLE FOR 1948

Details of some additional records received for 1948 which are not summarised in the Monthly Weather Report:—

(a) Returns on Form 3206 have been received for the hours set out below in addition to those summarised in Table IV:—

	Hours		Hours		Hours		Hours
Aberporth	o, 3, 6, 12, 18	Exeter	.. o, 6, 12, 18	Northolt	o, 3, 6, 9, 12, 15, 18, 21	South Farnborough	6, 12, 18
Beachy Head	.. 9, 12, 15, 18	Feltham	.. o, 6, 12, 18	Pembrey	o, 3, 6, 9, 12, 15, 18, 21	Speke	.. 3, 9, 15, 21
Boscombe Down	o, 6, 12, 18	Gorleston	.. o, 6, 12, 18	Point of Ayre	.. o, 6, 12, 18	Spurn Head	.. o, 6, 12, 18
Bristol	.. o, 6, 12, 18	Larkhill 12	Portland Bill	.. o, 6, 12, 18	St. Ann's Head	o, 6, 12, 18
Calshot	.. o, 6, 12, 18	Lizard	.. o, 6, 12, 18	Porton 9, 15	St. Catherine's Pt.	9, 15, 18
Chivenor	.. o, 6, 12, 18	Lympne	.. o, 6, 12, 18	Ringway	.. o, 6, 12, 18	Tangmere	.. o, 6, 12, 18
Croydon	.. o, 6, 12, 18	Lymeham	.. o, 6, 12, 18	Ronaldsway	.. o, 6, 12, 18	Tynemouth	.. o, 6, 12, 18
Deford	.. o, 6, 12, 18	Manston	.. o, 6, 12, 18	Ross on Wye	.. 6, 12, 18	Waddington	.. o, 6, 12, 18
Driffield	.. o, 6, 12, 18	Mildenhall	.. o, 6, 12, 18	Shawbury	.. o, 6, 12, 18	West Malling	.. o, 6, 12, 18
Edgbaston	.. 6, 12, 18	Mount Batten	.. o, 6, 12, 18	Silloth	.. 3, 9, 15, 21		

(b) For certain stations hourly tabulations for 1948 are available of wind force and direction, rainfall duration and amount, and duration of sunshine, and the list is given below where, W, R and S stand for hourly values of wind, rainfall and sunshine:

Aberporth W, S, R	Dunstable W, S	Lerwick W, S, R	Scilly W*
Abingdon W, R	Dyce S, R	Leuchars S, R	Sealand W (Jan.-Feb.)
Acklington S, R	Eskdalemuir W, S, R	Linton-on-Ouse W	Shawbury R
Aldergrove W (Oct.-Dec.) S, R	Exeter S, R	Little Rissington S, R	Shoeburyness W
Armagh R*	Fairwood Com. S, R (both *Jan.-Feb.)	Lizard W*	South Farnboro' W, S, R
Aust W*	Falmouth W, R, S	Long Ashton W	Southgate W
Bally Kelly S, R	Felixtowe W, S, R (Oct.-Dec.)*	Lympne W, S, R	Southport W*
Beachley W*	Feltham (L.A.P.) R	Lyneham R	South Shields W
Bell Rock W	Flinningley R	Manchester (R'way) W, S, R	Speke W, S
Birmingham W	Fleetwood W*	Manston W, S, R	Spurn Head W*
Boscombe Down W, S, R	Greenwich S, R	Mildenhall W, S, R	Squires Gate S, R
Bristol S, R	Gorleston W (Jan.-Nov.)*	Mount Batten S, R	Tangmere S, R
Calshot S, R	Harwarden S, R	Pembrey R (Mar.-Dec.)	Thorney I. W
Cardington W*	Hats ton S, R	Pembroke Dock R	Tiree W
Carlisle (Kingstown) R (Jan.-Mar.)	Holyhead W, S, R*	Pendennis W*	Turnhouse (Air pt.) R (July-Dec.)
Castle Archdale S, R	Honiley S, R	Plymouth W	Valley S
Church Fenton S, R	Horsham-St.-Faith R	Point of Ayre*	Waddington S, R
Cranfield S, R	Keswick R	Prestwick W, S, R	Watnall S, R
Cranwell W, R	Kew W, S, R	Renfrew W, S, R	West Freugh R
Croydon, W, S, R	Kingsway W	Ronaldsway S, R (both Sept.-Dec.)	West Malling S, R
Defford S, R	Knebworth (Stevenage) R	Rothamsted S	West Raynham S, R
Dover W*	Lee-on-Solent*	St. Ann's Head W*	Wick R
Driffield R	Leeming S, R	St. Eval R	Wittering S, R
Dungeness W (Oct.-Dec.)	Leicester W*		

* Anemograms stored in Meteorological Office (M.O.3)

The list of stations for which daily analyses of wind force and direction are available appear in Table II.

S

AVERAGES.

Rainfall (Table III).—The averages refer to the period 1881-1915 and are "weighted" if the record is not complete for that period. The averages of rainfall are given in the Book of Normals, Section V.

Pressure (Table IV).—The averages refer to 9h. G.M.T. for period 1901-1930 and have been "weighted" where necessary.

Temperature and Sunshine (Table III).—The averages in nearly all cases refer to periods of from 10 to 30 years ending 1935. The length of the period for each station is shown in the appropriate column of the List of Stations. Differences from averages of less than 30 years are printed in italics in the M.W.R.

The averages are given in the following publications:—

- (1) Averages of Temperature for the British Isles for periods ending 1935 (M.O. 407).
- (2) Averages of Bright Sunshine for the British Isles for periods ending 1935 (M.O. 408).

Earth Temperatures 1ft. and 4ft.—In general the averages cover the period 1911-1925.

STANDARDS OF TIME.

British Summer Time was in force from March 14th to Oct. 31st; during this period clocks were one hour in advance of Greenwich Mean Time. At all other times clocks referred to Greenwich Mean Time. Observers were recommended to make their observations at the same hours by Greenwich Mean Time throughout the year. At nearly all stations this recommendation was adopted, but in a very few cases circumstances made it necessary to adhere to the same hour by clock time. The actual hours of observation are given in Table III of the monthly issues.

SEA-TEMPERATURE.

Returns of sea-temperatures are received by the Meteorological Office from certain ships, lightships and coast stations. The mean temperatures of the seas round the British Isles for the months of the year 1948 are shown by figures within circles on the maps in the monthly issues of this report. In general the values are derived from readings of ships under way, or from light vessels.

MONTHLY WEATHER REPORT, 1948—TABLE IV.—ADDITIONS AND CORRECTIONS

MONTH	STATION	Hour of Observation Height of Barometer above Mean Sea Level	MEAN PRESSURE		TEMPERATURE and HUMIDITY			CLOUD AMOUNT		VISIBILITY										WIND, NUMBER OF OBSERVATIONS									
			At Mean Sea Level	Difference from Average	Dry Bulb	Vapour Pressure	Rel. Humidity	Mean Amount	No. of Observations					Number of Observations					Force (0 to 12)					Direction					
					Degression of Wet Bulb	°F.	%		0	1 to 3	4 to 6	7 to 9	10	0	1	2	3	4	5	6	7	8	9	8 or more	6 to 7	4 to 5	2 to 3	Calm	
March	43 Rothesay ..	GMT. 187	MB. 1023.2	+12.7	°F. 58	MB. 66	% 69
"	45 St. Ann's Head ..	9 187	1021.1
"	46 St. Ann's Head ..	3 152	1025.4
"	" ..	9 152	1026.3	+13.9
"	" ..	15 152	1025.2
April	52 Ventnor ..	21 152	1024.1
May	63 Bath ..	9 152	1012.8	-9
June	78 St. Ann's Head ..	21 152	1012.8	-9
"	92 Point of Ayre ..	15 31	1012.8	-9
"	94 Holyhead (Valley) ..	9 39	1016.8	..	55.5
July	109 Manston ..	9 150	1016.8	..	55.5
"	110 St. Ann's Head ..	15 152	1017.8
August	123 Renfrew ..	21 32	1017.5
"	125 Croydon ..	9 225	1017.5
"	127 Castle Archdale ..	3 150	1010.1
Sept.	142 Tangmere ..	3 57	1017.4
"	143 Aldergrove ..	9 271	1012.4
November	174 S. Farmborough ..	9 231	1016.9
"	175 The Lizard ..	21 240	1016.9
December	188 Point of Ayre ..	9 31	1017.5
"	190 Abingdon ..	3 245	1017.5
"	191 Aberporth ..	9 379	1017.5

MONTHLY WEATHER REPORT, 1948, LIST OF STATIONS—ADDITIONS AND DELETIONS

(a) Additions.

(b) Deletions.

Station	No.	Dist.	County	Lat.	Long.	Classification.	Publication.	Averages (number of years).	Authority.
(a) Alice Holt Lodge Exeter (Countess Wear) ..	179/5	5	Hants ..	51 °N. 15'	0 °W	III	—	Temp- Sunshine	Forestry Commission
Lacock (Lackham) Ringwood (High Town) ..	279/3	8b	Devon	50 °N. 26'	3 °W	III	—	— —	A. O. Rowden, Esq. School of Agriculture, Wilts. A.E.C.
Thetford (Lynford Hall) ..	226/5	5	Wilts. ..	51 °N. 26'	2 °W	III	—	— —	Miss M. A. M. Penrose, B.Sc.
Wallasey (New Brighton) ..	216/4	5	Hants. ..	50 °N. 29'	0 °E	III C.W.	m.	— —	Forestry Commission
Withernsea (Municipal Gdns.) ..	95/5	3	Norfolk	52 °N. 29'	0 °E	III	—	— —	M.O.H.
Yeovilton ..	250	7	Cheshire	52 °N. 4	3 °W	III	—	— —	U.D.C.
Yeoovilton ..	88/5	2	Yorks. ..	53 °N. 44'	0 °E	III	D, m.	— —	Meteorological Office

(b) Abingdon, Blandford, Carlisle (Kingstown Airport), Fairwood Common, Gibraltar (Windmill Hill), Manchester (Burridge School), Norwich (Southwell Lodge), Pantyrudd, Poole (Hawthorpe), Rugby, Santon Downham, Shrewsbury (Frodesley Hall), Totland Bay, Woodley, Wymeswold.

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