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R E P O R T



OF THE

METEOROLOGICAL COUNCIL

TO THE

ROYAL SOCIETY,

For the Year ending 31st of March 1894.

Presented to both Houses of Parliament by Command of Her Majesty.



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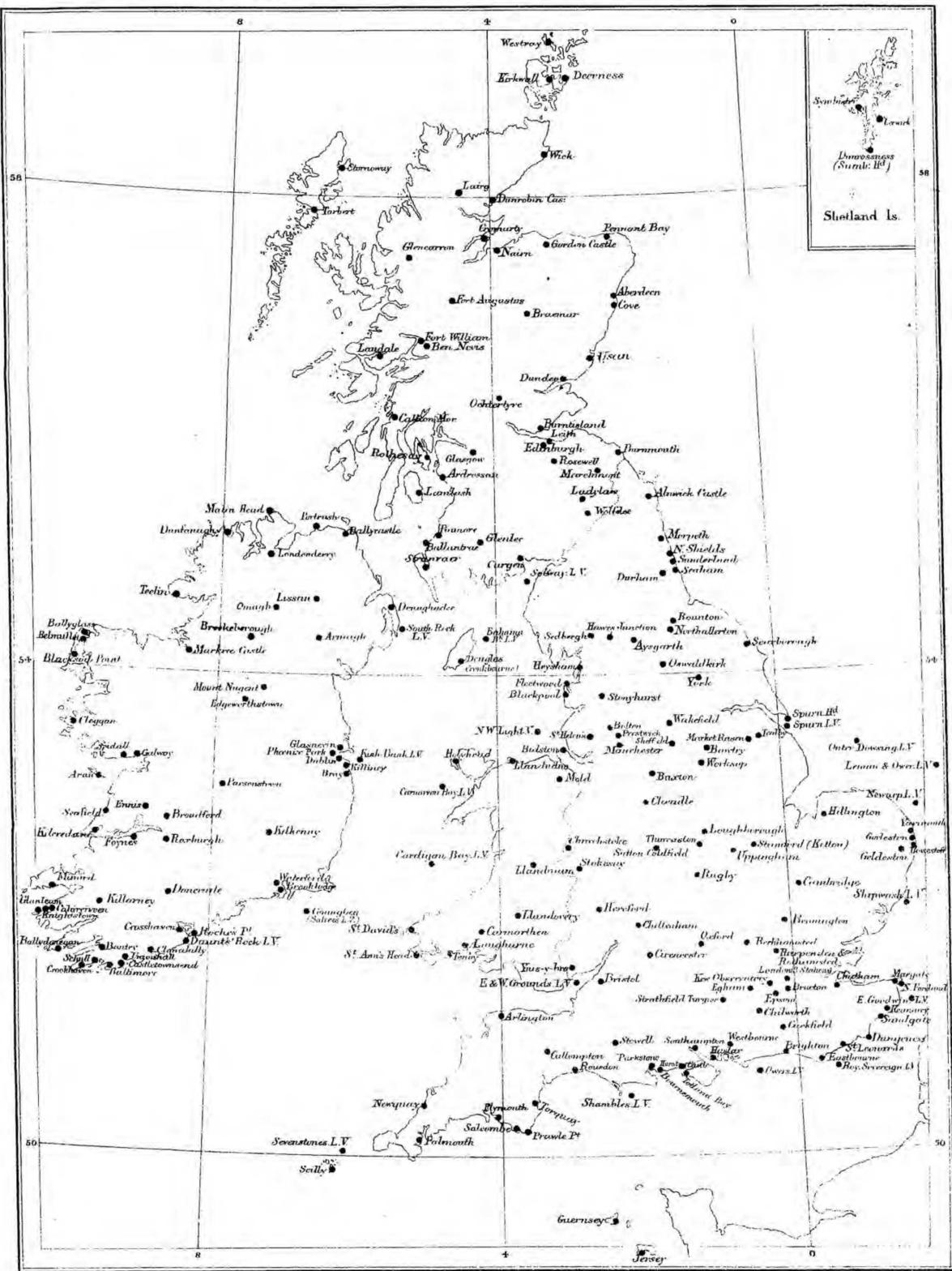
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(REPORT OF METEOROLOGICAL COUNCIL.)

MAP SHOWING THE POSITIONS OF THE STATIONS FROM WHICH OBSERVATIONS ARE RECEIVED.



For details of Information Received. See Appendix XI.

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APPENDIX XI.

LIST of STATIONS in the BRITISH ISLANDS from which INFORMATION has been received at the METEOROLOGICAL OFFICE during the year ending March 31st 1894.

The Stations marked "S" are in connexion with the Scottish Meteorological Society, and those marked "R.M." are in connexion with the Royal Meteorological Society. The returns from these Stations are received by the Office under an arrangement which will be found detailed in previous reports.

In certain cases where the actual station at which the Observations have been taken is not generally known, and could not be readily identified, the name of some village or town near has been inserted, with the name of the station following within brackets.

The nature of the information received from each station is indicated by letters as follows :—

A. Observatories.—Continuous record of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form, and motion of the clouds, and notes on the weather.

B. Anemograph Stations.—Continuous record of the direction and velocity (or force) of the wind.

C. Barograph Stations.—Continuous record of pressure.

D. Second Order Stations.—Regular observations at 9 a.m. and 9 p.m. each day, local time, of pressure, temperature (dry-bulb and wet-bulb), wind, cloud, and weather, with the daily maxima and minima of temperature, the daily rainfall, and general remarks on the weather.

E. Second Order Stations.—Monthly means and summaries on Form B. of observations taken at 9 a.m. and 9 p.m., each day as above.

F. Climatological Stations.—The maximum and minimum temperature and the rainfall for each day, with remarks on the weather. This information is sent to the Meteorological Office each week for use in the "Weekly Weather Report."

G. Third Order Stations.—Observations of the same kind as at Second Order Stations, but either :—

- (a) less full.
- (b) taken only once daily.
- (c) taken at irregular hours.

R. Rainfall Stations.—Daily observations of the amount of rainfall, with remarks on the weather.

S. Sunshine Stations.—Continuous record of bright sunshine.

T. Telegraphic Stations.—Regular observations at 8 a.m. and 6 p.m. G.M.T. (and from some stations at 2 p.m. in addition), of pressure, temperature, wind and weather, with the daily maxima and minima of temperature, the daily rainfall, and, where possible, the sea-disturbance at 8 a.m. each day and the daily amount of bright sunshine. This information is sent to the Meteorological Office each day by telegraph, for use in the "Daily Weather Report" and, as required, for use in the "Weekly Weather Report."

W. Sea-temperature.--Daily observations of the temperature of the sea water.

Appendix XI.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.
Aberdeen (Observatory)	57° 10' N.	2° 6' W.	46	Prof. C. Niven	A. T.
(Cove Bay)	57 9 "	2 5 "	—	Coastguard	W.
Alnwick Castle	55 25 "	1 43 "	210	Humphry Willyams, for the Duke of Northumberland.	B. F.
Ardrossan, Ayrshire	55 38 "	4 50 "	15	J. W. Mayes	T.
Arlington Court, Barn- staple.	51 8 "	3 58 "	613	W. Stewart, for Lady Chichester.	F.
Armagh Observatory	54 21 "	6 39 "	196	J. L. E. Dreyer	B.D.F.S.
Arran, North, Galway	53 6 "	9 40 "	—	Coastguard	G. W.
Aysgarth Vicarage, Bedale, Yorks.	54 18 "	1 58 "	646	Rev. F. W. Stow	D.
Bahama Bank Lightship	54 20 "	4 13 "	—	Light-keepers	W.
Ballantrae, Ayrshire	55 6 "	5 0 "	—	Coastguard	W.
Ballycastle, Co. Antrim	55 16 "	6 14 "	—	"	G.
Ballydonegan, Berehaven	51 38 "	10 3 "	—	"	W.
Ballyglass, Co. Mayo	54 17 "	9 52 "	—	"	W.
Baltimore, Co. Cork	51 28 "	9 22 "	—	R. Brennan	G.
Bantry	51 41 "	9 27 "	—	R. I. Whittaker	R.
Bawtry (Hesley Hall), Notts.	53 26 "	1 2 "	65	—	F.
Belmullet, Co. Mayo	54 13 "	9 59 "	40	Miss M. J. Tolan	T.
Ben Nevis	56 48 "	5 8 "	4,406	R. T. Omund, for Directors Ben Ne- vis Observatory.	A.
Bennington, Herts.	51 54 "	0 5 "	407	Rev. J. D. Parker	E.
Berkhamstead	51 46 "	0 34 "	400	E. Mawley	E.
Blackpool	53 48 "	3 3 "	31	A. J. Anderson	F. S.
Blacksod Point, Co. Mayo	54 6 "	10 4 "	—	Coastguard	W.
Bolton (Chadwick Museum)	53 35 "	2 27 "	389	W. W. Midgley	G.
Bournemouth	50 43 "	1 53 "	—	Messrs. Primavesi for Town Council.	S.
B Braemar	57 0 "	3 24 "	1,111	J. Aitken	D. F. S.
Bray, Co. Wicklow	53 12 "	6 6 "	—	Coastguard	G.
Brighton	50 49 "	0 8 "	—	A. Newsholme	S.
Bristol	51 28 "	2 35 "	92	J. Harvey Jones	F.
Broadford (Hurdlestowen), Co. Clare.	52 48 "	8 38 "	137	Capt. W. O. Bentley, R.A.	R.
Brookeborough (Colebrooke Park), Co. Fermanagh.	54 21 "	7 22 "	271	W. Ferguson	D. F.
Burnmouth, Ayton, Berwick	55 51 "	2 4 "	—	Coastguard	W.
Burntisland	56 4 "	3 14 "	—	—	W.
BU Buxton	53 14 "	1 54 "	987	E. J. Sykes	E.
Caernarvon Bay Lightship	53 6 "	4 45 "	—	Light-keepers	W.
S Callton Mor	56 8 "	5 30 "	132	J. Russell (for John Malcolm of Pol- talloch).	E.
Cambridge	52 13 "	0 6 E.	88	P. Morris	T. S.
Cardigan Bay Lightship	52 25 "	5 1 W.	—	Light-keepers	W.
S Cargen	55 2 "	3 37 "	72	P. Dudgeon and A. Peacock.	E.
BR Carmarthen	51 52 "	4 18 "	188	G. J. Hearder	D.
Castletownshend, Co. Cork	51 32 "	9 19 "	—	Coastguard	G.
Chatham	51 23 "	0 32 E.	136	The Instructor in Surveying.	G.
ft Cheadle	52 58 "	1 57 W.	646	J. C. Philips	E. F.
ft Cheltenham	51 54 "	2 3 "	184	R. Tyrer	E.
Chilworth, Surrey	51 13 "	0 32 "	307	C. S. Bell	D.
ft Churchstoke	52 31 "	3 5 "	538	P. Wright	D. F. S.
Cirencester	51 43 "	1 57 "	446	Prof. Ohm	F. S.
Cleggan, Co. Galway	53 33 "	10 8 "	—	Coastguard	W.
Clonakilty, Co. Cork	51 37 "	8 50 "	—	E. Moore	R.
Coningbeg Lightship	52 2 "	6 40 "	—	Light-keepers	W.
Cooper's Hill, Egham	51 26 "	0 34 "	279	Prof. H. McLeod	G.
S Crieff (Ochtertyre)	56 23 "	3 63 "	329	G. Croucher for Sir P. K. Murray, Bt.	E. F.
Cromarty	57 41 "	4 0 "	—	Coastguard	W.
Crookhaven	51 28 "	9 43 "	—	"	G.
Crosshaven	51 48 "	8 18 "	—	"	G.
Cuckfield, Sussex	51 1 "	0 9 "	389	John Howe	R.
ft Culmpton	50 51 "	3 23 "	202	T. Turner	F. S.
Daunt's Rock Lightship	51 43 "	8 16 "	—	Light-keepers	W.
Deerness, Orkney Islands	58 56 "	2 45 "	169	M. Spence	B. D. S.
Donaghadee	54 38 "	5 32 "	26	T. MacGowan	T.
Doneraile, Co. Cork	52 13 "	8 34 "	—	Captain Evans	R.
Douglas (Cronkbourne)	54 10 "	4 29 "	137	A. W. Moore	D. F. S.
Isle of Man.					
Dublin (Botanic Gardens, Glasnevin).	53 23 "	6 16 "	67	F. W. Moore	D.
Dublin (City)	53 20 "	8 15 "	47	J. W. Moore	D. F.

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.
Dublin (Mountjoy Observatory, Phoenix Park).	53° 22' N.	6° 21' W.	155	Lt.-Col. Kirkwood, R.E.	B. D. S.
§ Dundee	56° 28" "	2° 56" "	160	J. Carnochan -	D.
Dunfanagh (Sheephaven)	55° 11" "	7° 58" E.	-	Coastguard -	W.
Dungeness	50° 55" "	0° 59" E.	26	W. Batton -	T.
§ Dunrobin Castle	57° 59" "	3° 56" W.	12	D. Melville, for the Duke of Sutherland.	D.
Durham	54° 46" "	1° 35" "	336	H. J. Carpenter -	D. F. S.
Eastbourne	50° 46" "	0° 17" E.	39	R. Sheward -	D. S.
East Goodwin Lightship	51° 13" "	1° 36" "	-	Light keepers -	W.
Edgeworthstown (Curry- grane).	53° 45" "	7° 39" W.	267	J. M. Wilson -	D. F.
Edinburgh	55° 57" "	3° 12" "	253	R. C. Mossman -	D. S.
English and Welsh Grounds Lightship.	51° 27" "	3° 0" "	-	Light-keepers -	W.
Ennis, Co. Clare	52° 51" "	8° 59" "	18	J. Hill and P. L. K. Dobbin.	R.
(Bosleyvan)	52° 51" "	8° 59" "	40	Mrs. J. W. Scott -	R.
Epsom (Royal Medical College).	51° 20" "	0° 14" "	294	C. I. Gardiner -	D.
Falmouth	50° 9" "	5° 4" "	167	E. Kitto -	A. F.
Fleetwood	53° 56" "	3° 1" "	-	M. S. Gaultier -	B.
§ Port Augustus	57° 8" "	4° 40" "	68	Rev. M. Wall -	E. F. S.
§ Fort William	56° 48" "	5° 6" "	32	R. T. Omond for Directors, Ben Nevis Observatory.	A. F.
Foynes, Co. Limerick	52° 37" "	9° 7" "	108	Lord Monteagle -	F.
Galway	53° 17" "	9° 3" "	-	Lieut. C. G. F. Law -	G.
Geldeston, Beccles	52° 23" "	1° 31" E.	37	E. T. Dowson -	D. F. S.
Glasgow	55° 53" "	4° 18" W.	180	Prof. L. Becker -	A. D. F.
§ Glenarcon	57° 30" "	5° 14" "	489	D. D. Munro -	E. F.
§ Glenlee	55° 5" "	4° 12" "	203	W. Melville -	E. F.
§ Gordon Castle	57° 37" "	3° 5" "	101	J. Webster (for the Duke of Richmond and Gordon, K.G.).	E.
Gorleston, Suffolk	52° 35" "	1° 43" E.	-	R. J. C. Day -	G.
Guernsey (St. Peter's)	49° 32" "	2° 32" W.	-	F. E. Carey -	S.
Harpden, Herts.	51° 49" "	0° 20" "	419	T. Wilson -	G.
Haslar Hospital, Hants	50° 47" "	1° 7" "	-	G. Coppen -	G.
Hawes Junction	54° 19" "	2° 18" "	1135	W. H. Bunce -	T.
¶ Hereford	52° 5" "	2° 45" "	274	T. A. Chapman -	F.
Heysham Hall, Lancashire	54° 3" "	2° 54" "	95	S. Lomas for Miss L. Grafton.	D.
¶ Hillington	52° 48" "	0° 33" E.	88	Rev. H. E. B. Ffolkes	D. F. S.
Holyhead (Harbour Office) " (Sailors' Home)	53° 18" "	4° 39" W.	--	F. M. Cottou -	B. W.
Hurst Castle	53° 18" "	4° 39" "	48	T. Chope -	T.
Jersey (St. Aubins) " (St. Heliers)	49° 12" "	2° 11" "	12	E. T. Tremble -	T.
Kearsney Abbey (Dover)	51° 8" "	1° 17" E.	100?	J. Fisher -	T.
Ketton, Stamford	52° 39" "	0° 33" W.	-	Signal Officer Fort Regent.	S.
" (The Holmes)	52° 39" "	0° 33" "	-	C. W. Curtis -	R.
Kew Observatory	51° 28" "	0° 19" "	18	F. Coventry -	F. G.
Kilcredeane, Co. Clare	52° 35" "	9° 47" "	-	-	R.
Kilkenny	52° 39" "	7° 14" "	212	C. Chree -	A.
"	-	-	-	Coastguard -	W.
¶ Killarney	52° 4" "	9° 30" "	86	H. Carlton, for the Marquis of Or- monde.	C. F.
Killiney (Clonkeevin), Co. Dublin.	53° 16" "	6° 7" "	-	Ven. Archdeacon Wynne.	E. F.
Kirkwall	58° 59" "	2° 57" "	-	R. O'Brien Furlong	R.
Kish Bank Lightship	53° 19" "	5° 55" "	-	Coastguard -	W.
Ladylaw (Hawick)	55° 28" "	2° 47" "	439	Light keepers -	W.
§ Laing	58° 1" "	4° 22" "	335	W. R. Wilson -	C. D.
Lambeth, Isle of Arran, Scotland.	55° 32" "	5° 8" "	-	J. Young -	E. F.
Laudale, Argyleshire	56° 41" "	5° 41" "	14	Coastguard -	W.
Laugharne, Carmarthenshire.	51° 47" "	4° 28" "	15	A. Fletcher for T. H. G. Newton.	D. F.
§ Lednathie	56° 45" "	3° 7" "	719	R. W. Pinney -	R.
Leith	55° 58" "	3° 10" "	20	W. Morrison (for Stormont Darling).	E.
Leman and Ower Light- ship.	53° 8" "	2° 2" E.	-	T. Richardson -	T.
Lerwick	60° 9" "	1° 8" W.	-	Light-keepers -	W.
§ Lissan, Co. Tyrone	54° 41" "	6° 45" "	305	Coastguard -	E.
				Sir Nathaniel Staples, Bart.	

Appendix XI.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.
Liverpool (Bidston Observatory).	53° 24' N.	3° 4' W.	189	W. E. Plummer	D. T.
Liverpool (North-West Lightship).	53 31 "	3 31 "	—	Light-keepers	W.
Llandinam, Montgomerysh.	52 30 "	3 26 "	496	Edward Davies	R.
Llandovery	51 59 "	3 48 "	217	J. Watkins	F.
LLandudno	53 21 "	3 50 "	88	J. Nicol	E. F. S.
London (Brixton) (City)	51 29 "	0 7 "	77	F. Gaster	T.
" (Pall Mall)	51 32 "	0 5 "	80	Messrs. de la Rue	S.
" (Westminster)	51 31 "	0 8 "	76	Athenaeum Club	C.
				The Staff of the Met. Office.	B. S.
Londonderry	55 0 "	7 19 "	67	J. Conroy	D. F.
Loughborough	52 47 "	1 12 "	169	W. Berridge	T.
Lowestoft	52 29 "	1 44 E.	—	J. Andrew	G.
Malin Head, Co. Donegal	55 23 "	7 25 W.	230	O. O'Doherty	T.
Manchester	53 29 "	2 13 "	190	J. Tatham	G. S.
Marchmont	55 44 "	2 25 "	498	P. Loney for Sir H. P. Campbell, Bt.	E. F. S.
Margate	51 24 "	1 24 E.	83	J. Stokes	D. S.
Market Rasen	53 23 "	0 20 W.	83	W. B. Jeavons	R.
Markree Castle, Co. Sligo	54 11 "	8 27 "	122	A. Marth for Col. Cooper.	D. F. S.
Minard, Co. Kerry	52 7 "	10 8 "	—	Coastguard	W.
Mold (Penbedw)	53 12 "	3 16 "	650	H. W. Buddiwm	C.
Montrose (Uzon)	56 40 "	2 28 "	—	Coastguard	W.
Morpeth	55 11 "	1 40 "	—	Captain H. Terry	G.
Mount Nugent (Arley Cottage).	53 50 "	7 18 "	262	Major Sonerset H. Maxwell.	D. S.
Nairn	57 36 "	3 52 "	84	Miss Penny	T.
Newarp Lightship	52 45 "	1 53 E.	—	Light-keepers	W.
Newport (Ynys-y-bro), Mon.	51 38 "	3 3 W.	115	F. W. Houghton	R.
Newquay, Cornwall	50 25 "	5 5 "	—	J. Pearce	S.
Northallerton	50 25 "	5 5 "	—	Coastguard	W.
North Foreland	54 20 "	1 26 E.	130	W. Stead	E.
Omagh (Edenfel)	54 36 "	7 19 W.	115	A. Cox	T.
Oswaldkirk, Yorks.	54 12 "	1 3 "	300	Col. Buchanan	F.
Outer Dowsing Lightship	53 27 "	1 5 E.	—	R. Thompson	S.
Owers Lightship	50 39 "	0 41 W.	—	Light-keepers	W.
Oxford	51 46 "	1 18 "	208	W. Wickham for E. J. Stone.	T. S.
Parkstone, Dorset	50 43 "	1 56 "	197	R. H. Barnes	D.
Parsonstown (Birr Castle)	53 6 "	7 55 "	175	O. Boedicker, for Earl of Rosse.	D. S. T.
Pembroke (St. Ann's Head).	51 41 "	5 11 "	150	H. T. Knott	T. S. W.
Pennant Bay, Aberdour	57 40 "	2 16 "	—	Coastguard	W.
Pinmore (Girvan)	55 12 "	4 49 "	187	P. Donald for Capt. Hamilton.	E.
Plymouth	50 22 "	4 8 "	116	H. V. Prigg	D. F. S.
Portrush	55 13 "	6 40 "	—	Coastguard	W.
Prawle Point	50 12 "	3 43 "	332	M. Höhnes	T.
Prestwich	53 32 "	2 17 "	294	T. R. H. Chun	D. F. S.
Roche's Point, Cork	51 47 "	8 19 "	42	W. Kennedy	T.
Rosewell	55 51 "	3 7 "	690	R. W. D. Cameron	E.
Rothamsted	51 48 "	0 22 "	368	Sir J. B. Lawes and Sir J. H. Gilbert.	F. S.
Rothesay	55 50 "	5 4 "	115	J. Kay	E.
Rounton, Northallerton	54 24 "	1 18 "	249	Sir L. L. Bell, Bart.	E.
Rousdon, Devon	50 42 "	3 0 "	523	C. E. Peek	E.
Roxborough, Co. Limerick	52 39 "	8 36 "	—	A. W. Shaw	R.
Royal Sovereign Lightship.	50 43 "	0 27 E.	—	Light-keepers	W.
Rugby	52 22 "	1 15 W.	379	H. P. Highton	G.
St. David's	51 53 "	5 16 "	215	W. P. Propert	D.
St. Helen's, Lancashire	53 28 "	2 45 "	151	J. Robertson	G.
St. Leonards	50 61 "	0 33 E.	129	H. Colborne	D. F. S.
Salcombe, Kingsbridge	50 14 "	3 46 W.	—	Coastguard	W.
Sandgate, Kent	51 4 "	1 9 E.	—	H. E. Stilgoe	R.
Scarborough	54 17 "	0 23 W.	159	Dr. H. G. H. Monk	D. F.
"	54 17 "	0 23 "	—	Coastguard	W.
Schull	51 32 "	9 32 "	—	A. Hicks	G.
Scilly Islands (St. Mary's)	49 56 "	6 18 "	80	Coastguard	B. S. T. W.
Seafield (Co. Clare)	52 48 "	9 30 "	—	G. H. Aird	W.
Seaham	54 50 "	1 19 "	148	E. C. Malan	D.
Sedbergh	54 19 "	2 32 "	400	Light-keepers	R.
Seven Stones Lightship	50 4 "	6 5 "	—	Light-keepers	W.
Shambles Lightship	50 31 "	2 20 "	—	E. Howarth	D.
Sheffield	53 23 "	1 29 "	429		

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.
* Sherborne (Stowell), Dorset.	50° 57' N.	2° 31' W.	376	Rev. H. J. Poole	F.
Shields, North	55° 0" "	1° 27" "	97	J. W. Irvine	T.
Shields, North, Old Light-house.	55° 0" "	1° 27" "	—	Captain Harrison	B.
Shipwash Lightship	52° 2" "	1° 38 E.	—	Light-keepers	W.
Solway Lightship	54° 48" "	3° 32 W.	—	Light-keepers	W.
Southampton	50° 55" "	1° 24" "	78	J. T. Cook for Dir. Gen. of Ordnance Survey.	D.F.S.
South Rock Lightship	54° 25" "	5° 22" "	—	Light-keepers	W.
Spidall, Co. Galway	53° 15" "	9° 17" "	—	Coastguard	G.
Spurn Head	53° 34" "	0° 7" "	19	G. Freeman	T.
Spurn Lightship	53° 34" "	0° 13 E.	—	Light-keepers	W.
Stokesay, Craven Arms	52° 26" "	2° 52 W.	370	Miss M. A. Digges La Touche.	D.
Stonyhurst College	53° 51" "	2° 28" "	375	Rev. W. Sidgreaves	A.D.F.
Stornoway	58° 11" "	6° 22" "	28	J. Forbes	T.S.
"	58° 11" "	6° 22" "	—	Coastguard	W.
Stranraer	54° 54" "	5° 2" "	—	Patrick Doran	G.
* Straitfield Turgiss, Hants	51° 20" "	1° 0" "	195	Rev. C. H. Griffith	F.
Sumburgh Head (Dunrossness).	59° 51" "	1° 17" "	126	Rev. W. Brand	T.
Sunderland	54° 54" "	1° 23" "	—	Coastguard	W.
Sutton Coldfield	52° 34" "	1° 49" "	392	C. F. Marston	S.
Symbister, Shetlands	60° 14" "	1° 25" "	—	J. S. Nicolson	G.
Tarbert, Harris	57° 53" "	6° 47" "	—	D. Bethune	G.
Tealby, Lincolnshire	53° 24" "	0° 16" "	251	Rev. S. Lewin	D.
Teelin, Donegal	54° 38" "	8° 39" "	—	Coastguard	W.
Tenby	51° 41" "	4° 42" "	79	J. E. Gower	S.
Thurcaston, Leicester	52° 42" "	1° 10" "	253	Rev. T. A. Preston	S.
Torquay	50° 28" "	3° 31" "	—	A. Chandler	S.
Totland Bay, Isle of Wight	50° 41" "	1° 33" "	84	J. Dover	G.
Union Hall, Co. Cork	51° 33" "	9° 8" "	—	Coastguard	G.
Uppingham	52° 35" "	0° 44" "	484	Rev. G. H. Mullins	D.
Valencia Observatory, Cahirciveen.	51° 56" "	10° 15" "	30	J. E. Cullum	A. T.
" Island (Glanleam) (Knightstown)	51° 55" "	10° 20" "	—	Miss E. FitzGerald	R.
" (Knightstown) -	51° 55" "	10° 20" "	—	Coastguard	G.
* Wakefield	53° 41" "	1° 30" "	96	H. Clarke	E.
Waterford (Brook Lodge)	52° 15" "	7° 6" "	104	C. P. Bolton	C. F.
Waterford	52° 15" "	7° 8" "	—	Harbour Authorities	C.
Westbourne, Sussex	50° 52" "	0° 55" "	—	Rev. L. B. Birkett	S.
Westray, Orkney	59° 17" "	3° 0" "	—	J. Hewison	G.
Wick	58° 27" "	3° 6" "	80	J. Sinclair	T.
Wick	58° 27" "	3° 6" "	—	Coastguard	W.
* Wolfelee	55° 23" "	2° 39" "	587	W. Cockburn	D.
Worksop	53° 18" "	1° 8" "	—	H. Mellish	S.
Yarmouth	52° 37" "	1° 43 E.	10	G. T. Watson	B. T.
York (Boothgate)	53° 57" "	1° 5 W.	—	J. E. Clark	S.
" (The Museum)	53° 57" "	1° 5" "	51	H. M. Platnauer	D. T.

In addition to the above, reports are received daily from the following Continental Stations.

Station.	Authority.	Station.	Authority.
Haparanda	{ Meteorological Office, Sweden.	The Helder	{
Hernosand		Cape Gris Nez	
* Stockholm		* Brest (St. Mathieu)	
Wisby		Lorient (Île de Groix)	
Bodø	{ Meteorological Institute, Nor-	* Rochefort (Île d'Aix)	{ Bureau Central
* Christiansund	way.	Biarritz	Météorologique,
* Skudesuaes		Paris	Paris.
Færder		Belfast	
* The Scaw	{ Meteorological Institute, Den-	Lyons	
Fano	mark.	Nice	
Cuxhaven	Deutsche See- warte, Ham- burg.	Perpignan	
		Berlin	{ Cent. Met. Inst.
		Wiesbaden	of Germany.
		Munich	
		Corunna	{ Observatory,
		Lisbon	Lisbon.

Note.—The stations marked with an asterisk (*) report also at 2h. p.m., and those with dagger (†) at 6h. p.m.; Lisbon reports at 4h. p.m. instead of 6h. p.m.

The Helder does not send reports at 6 p.m. on Sundays.

R E P O R T

OF THE

METEOROLOGICAL COUNCIL

For the Year ending 31st of March 1895;

SUBMITTED TO THE

PRESIDENT AND COUNCIL

OF THE

ROYAL SOCIETY.

Presented to both Houses of Parliament by Command of Her Majesty.



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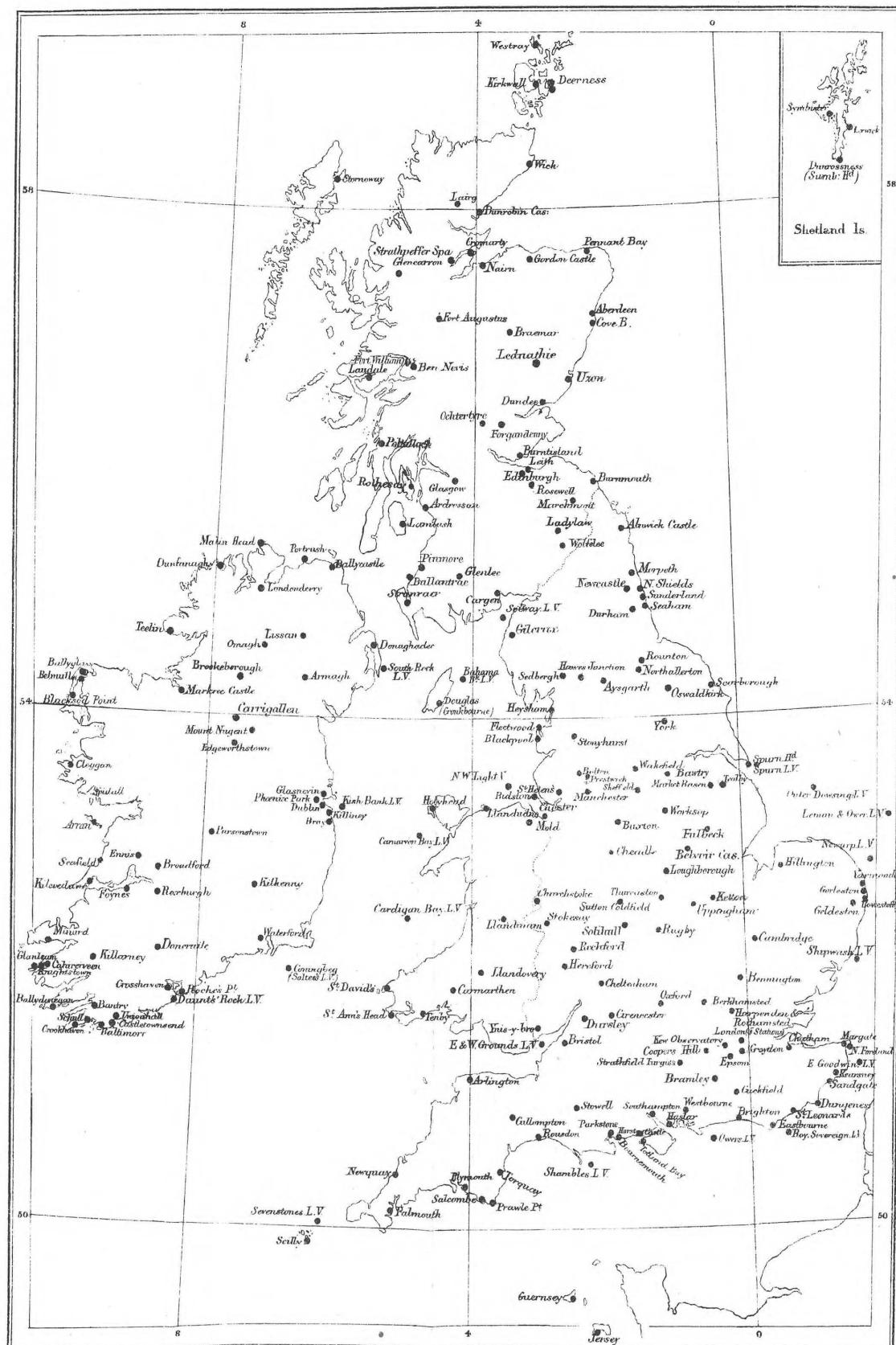
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1895.

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(REPORT OF METEOROLOGICAL COUNCIL)

MAP SHOWING THE APPROXIMATE POSITIONS OF THE STATIONS FROM WHICH OBSERVATIONS ARE RECEIVED.



APPENDIX XI.

LIST OF STATIONS in the BRITISH ISLANDS from which INFORMATION has been received at the METEOROLOGICAL OFFICE during the year ending March 31st 1895.

The Stations marked "S" are in connexion with the Scottish Meteorological Society, and those marked "M" are in connexion with the Royal Meteorological Society. The returns from these Stations are received by the Office under an arrangement which will be found detailed in previous reports.

In certain cases where the position of the actual station at which the Observations have been taken is not generally known, and could not be readily identified, the name of some village or town near has been inserted, with the name of the station following within brackets.

The nature of the information received from each station is indicated by letters as follows :—

A. *Observatories*.—Continuous record of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form, and motion of the clouds, and notes on the weather.

B. *Anemograph Stations*.—Continuous record of the direction and velocity (or force) of the wind.

C. *Barograph Stations*.—Continuous record of pressure.

D. *Second Order Stations*.—Regular observations at 9 a.m. and 9 p.m. each day, local time, of pressure, temperature (dry-bulb and wet-bulb), wind, cloud, and weather, with the daily maxima and minima of temperature, the daily rainfall, and general remarks on the weather.

E. *Second Order Stations*.—Monthly means and summaries on Form B. of observations taken at 9 a.m. and 9 p.m., each day as above.

F. *Climatological Stations*.—The maximum and minimum temperature and the rainfall for each day, with remarks on the weather. This information is sent to the Meteorological Office each week for use in the "Weekly Weather Report."

G. *Third Order Stations*.—Observations of the same kind as at Second Order Stations, but either :—

- (a) less full.
- (b) taken only once daily.
- (c) taken at irregular hours.

R. *Rainfall Stations*.—Daily observations of the amount of rainfall, with remarks on the weather.

S. *Sunshine Stations*.—Continuous record of bright sunshine.

T. *Telegraphic Stations*.—Regular observations at 8 a.m. and 6 p.m. G.M.T. (and from some stations at 2 p.m. in addition), of pressure, temperature, wind and weather, with the daily maxima and minima of temperature, the daily rainfall, and, where possible, the sea-disturbance at 8 a.m. each day and the daily amount of bright sunshine. This information is sent to the Meteorological Office each day by telegraph, for use in the "Daily Weather Report" and, as required, for use in the "Weekly Weather Report."

W. *Sea-temperature*.—Daily observations of the temperature of the sea water.

Appendix XI.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.
Aberdeen (Observatory)	57° 10' N.	2° 6' W.	46	Prof. C. Niven	A. T. C.
" (Cove Bay)	57° 9 "	2° 5 "	—	Coastguard	W.
Alnwick Castle	55° 25 "	1° 43 "	210	Humphry Willyams, for the Duke of Northumberland.	B. F.
Ardrossan, Ayrshire	55° 38 "	4° 50 "	15	J. W. Mayes	T.
Arlington Court, Barn- staple	51° 8 "	3° 58 "	613	W. Stewart, for Lady Chichester.	F.
Armagh Observatory	54° 21 "	6° 39 "	196	J. L. E. Dreyer	B.D.F.S.
Arran, North, Galway	53° 6 "	9° 40 "	—	Coastguard	G. W.
Aysgarth Vicarage, Yorks	54° 18 "	1° 58 "	646	Rev. F. W. Stow	D.
Bahama Bank Lightship	54° 20 "	4° 13 "	—	Light-keepers	W.
Ballantrae, Ayrshire	55° 6 "	5° 0 "	—	Coastguard	W.
Ballydonegan, Co. Cork	51° 38 "	10° 3 "	—	—	W.
Ballyglass, Co. Mayo	54° 17 "	9° 53 "	—	—	W.
Baltimore, Co. Cork	51° 28 "	9° 22 "	—	—	G.
Bantry	51° 41 "	9° 27 "	—	R. Brennan	R.
Bawtry (Hesley Hall), Notts.	53° 26 "	1° 2 "	65	B. I. Whitaker	F.
Belmullet, Co. Mayo	54° 13 "	9° 59 "	40	Miss M. J. Tolan	T.
Belvoir Castle, Grantham	52° 54 "	0° 47 "	259	W. H. Divers	D.
Ben Nevis	56° 48 "	5° 0 "	4,406	R. T. Omond, for Directors Ben Ne- vis Observatory.	A.
Bennington, Herts.	51° 54 "	0° 5 "	407	Rev. J. D. Parker	E.
Berkhamstead	51° 46 "	0° 34 "	400	E. Mawley	E.
Bidston Observatory, Liver- pool.	53° 24 "	3° 4 "	158	W. E. Plummer	D. T.
Blackpool	53° 48 "	3° 3 "	31	A. J. Anderson	F. S.
Blacksod Point, Co. Mayo	54° 6 "	10° 4 "	—	Coastguard	W.
Bolton (Chadwick Museum)	53° 35 "	2° 27 "	389	W. W. Midgley	G.
Bournemouth	50° 43 "	1° 53 "	—	Messrs. Primavesi for Town Council.	S.
Braemar	57° 0 "	3° 24 "	1,111	J. Aitken	D. F. S.
Bramley, Surrey	51° 11 "	0° 33 "	148	J. Bartlett	D.
Bray, Co. Wicklow	53° 12 "	6° 6 "	—	Coastguard	G.
Brighton	50° 49 "	0° 8 "	—	A. Newsholme	S.
Bristol	51° 28 "	2° 35 "	92	J. Harvey Jones	F.
Broadford (Hurdlestow), Co. Clare.	52° 48 "	8° 38 "	157	Maj. W. O. Bentley, R.A.	R.
Brookeborough (Colebrooke Park), Co. Fermanagh.	54° 21 "	7° 22 "	271	M. Ferguson, for Sir A. D. Brooke, Bt.	D. F.
Burnmouth, Ayton, Berwick	55° 51 "	2° 4 "	—	Coastguard	W.
Burntisland	56° 4 "	3° 14 "	—	—	W.
Buxton	53° 14 "	1° 54 "	987	E. J. Sykes	E.
Caernarvon Bay Lightship	53° 6 "	4° 45 "	—	Light-keepers	W.
Cambridge	52° 13 "	0° 6 E.	88	Miss A. Walker	T. S.
Cardigan Bay Lightship	52° 25 "	5° 1 W.	—	Light-keepers	W.
Cargin	55° 2 "	3° 37 "	72	P. Dudgeon (the late) and A. Peacock.	E.
Carmarthen	51° 52 "	4° 18 "	188	G. J. Hearder	D.
Carrigallen, Co. Leitrim	53° 58 "	7° 38 "	? 350	Mrs. J. Godley	R.
Castletownshend, Co. Cork	51° 32 "	9° 11 "	—	Coastguard	G.
Chatham	51° 23 "	0° 32 E.	136	The Instructor in Surveying.	G.
Cheadle	52° 58 "	1° 57 W.	646	J. C. Phillips	E. F.
Chester	51° 54 "	2° 3 "	184	R. Tyre	E.
Chester	53° 12 "	2° 54 "	59	Rev. J. Cairns	D.
Churchstoke	52° 31 "	3° 5 "	538	Mitchell.	
Cirencester	51° 48 "	1° 57 "	446	P. Wright	D. F. S.
Cleggan, Co. Galway	53° 33 "	10° 8 "	—	Prof Ohm	F. S.
Coningbeg Lightship	52° 2 "	6° 40 "	—	Coastguard	W.
Cooper's Hill, Egham	51° 26 "	0° 34 "	279	Light-keepers	W.
Cromarty	57° 41 "	4° 0 "	—	Prof. H. McLeod	G.
Crookhaven	51° 28 "	9° 43 "	—	Coastguard	W.
Crosshaven	51° 48 "	8° 18 "	—	—	G.
Cuckfield, Sussex	51° 1 "	0° 9 "	389	John Howe	R.
Cullompton	50° 51 "	3° 23 "	202	T. Turner	F. S.
Dauph's Rock Lightship	51° 43 "	8° 16 "	—	Light-keepers	W.
Deerness, Orkney Islands	58° 56 "	2° 45 "	169	M. Spence	B. D. S.
Donaghadee	54° 38 "	5° 32 "	26	T. MacGowan	T.
Doneraile, Co. Cork	52° 13 "	8° 34 "	—	Captain Evans	R.
Douglas (Cronkbourne)	54° 10 "	4° 29 "	137	A. W. Moore	D. F. S.
Isle of Man.					
Dublin (Botanic Gardens, Glasnevin).	53° 23 "	6° 16 "	67	F. W. Moore	D.

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.
Dublin (City)	53° 20' N.	6° 15' W.	47	J. W. Moore	D. F.
Dublin (Mountjoy Observatory, Phoenix Park).	53° 22' "	6° 21' "	155	Lt.-Col. Kirkwood, R.E.	B. D. S.
§ Dundee	56° 28' "	2° 56' "	160	J. Carnochan	D.
Dunfanaghy (Sheephaven)	55° 11' "	7° 58' "	—	Coastguard	W.
Dungeness	50° 55' "	0° 59' E.	26	W. Batton	T.
§ Dunrobin Castle	57° 59' "	3° 56' W.	12	D. Melville, for the Duke of Sutherland.	D.
Durham	54° 46' "	1° 35' "	336	H. J. Carpenter	D. F. S.
Dursley (Farnley), Glos.	51° 41' "	2° 21' "	—	R. W. Pinney	R.
Eastbourne	50° 46' "	0° 17' E.	38	R. Sheward	D. S.
East Goodwin Lightship	51° 13' "	1° 36' "	—	Light keepers	W.
Edgeworthstown (Curry- frane).	53° 45' "	7° 39' W.	267	J. M. Wilson	D. F.
Edinburgh	55° 57' "	3° 12' "	253	R. C. Mossman	D. S.
English and Welsh Grounds Lightship.	51° 27' "	3° 0' "	—	Light-keepers	W.
Ennis, Co. Clare	52° 51' "	8° 59' "	18	P. L. K. Dobbin	R.
" (Roslevan)	52° 51' "	8° 59' "	40	Mrs. J. W. Scott	E.
Epsom (Royal Medical College).	51° 20' "	0° 14' "	294	C. I. Gardiner	D.
Falmouth	50° 9' "	5° 4' "	167	E. Kitto	A. F.
Fleetwood	53° 56' "	3° 1' "	—	M. S. Gaulter	B.
Forgandenny, Perth	56° 21' "	3° 29' "	175	C. L. Wood	C.
§ Fort Augustus	57° 8' "	4° 40' "	68	Rev. M. Wall	E. F. S.
Fort William	56° 48' "	5° 6' "	32	R. T. Omund, for Directors, Ben Nevis Observatory.	A. F.
Foynes, Co. Limerick	52° 37' "	9° 7' "	108	Lord Montagle	F.
Fulbeck, Lincolnshire	53° 3' "	0° 37' "	180?	Rev. Vere F. Willson	R.
Geldston, Beccles	52° 28' "	1° 31' E.	37	E. T. Dowson	D. F. S.
Gileroux, Maryport	54° 44' "	3° 23' W.	261	J. Monkhouse	D.
Glasgow	55° 53' "	4° 18' "	180	Prof. L. Becker	A. D. F.
§ Glencarron	57° 30' "	5° 14' "	488	D. D. Munro	E. F.
§ Glenlee	55° 5' "	4° 12' "	203	W. Melville	E. F.
§ Gordon Castle	57° 37' "	3° 5' "	101	J. Webster (for the Duke of Richmond and Gordon, K.G.).	E.
Gorleston, Suffolk	52° 35' "	1° 43' E.	—	R. J. C. Day	G.
Guernsey (St. Peter's)	49° 32' "	2° 32' W.	—	F. E. Carey	S.
Harpden, Herts.	51° 49' "	0° 20' "	419	T. Wilson	G.
Haslar Hospital, Hants	50° 47' "	1° 7' "	—	T. Rogers	G.
Hawes Junction	54° 19' "	2° 18' "	1135	W. H. Bunce	G.
§ Hereford	52° 5' "	2° 45' "	274	T. A. Chapman	F.
Heysham Hall, Lancashire	54° 3' "	2° 54' "	95	S. Lomas, for Miss L. Grafton.	D.
§ Hillington	52° 48' "	0° 33' E.	88	Rev. H. E. B. Ffolkes	D. F. S.
Holyhead (Harbour Office) (Sailors' Home)	53° 18' "	4° 39' W.	57	F. M. Cotton	B. W.
Hurst Castle	53° 18' "	4° 39' "	48	T. Chope	T.
Jersey (St. Aubin's)	49° 12' "	2° 11' "	25	E. T. Tremble	T.
" (St. Heliers)	49° 11' "	2° 6' "	—	J. Fisher	T.
Kearsney Abbey, Dover	51° 8' "	1° 17' E.	100?	Signal Officer, Fort Regent.	S.
Ketton, Stamford	52° 38' "	0° 32' W.	—	C. W. Curtis	R.
" (The Holmes)	52° 38' "	0° 32' "	—	F. Coventry	F. G.
" (Colley Weston)	52° 37' "	0° 31' "	270	Miss A. Tasker	R.
Kew Observatory	51° 28' "	0° 19' "	18	C. Chree	A.
Kilredane, Co. Clare	52° 35' "	9° 47' "	—	Coastguard	W.
Kilkenny	52° 39' "	7° 14' "	212	H. Carlton, for the Marquis of Or- monde.	C. F.
§ Killarney	52° 4' "	9° 30' "	86	Ven. Archdeacon Wynne.	E. F.
Killiney (Clonkeevin), Co. Dublin.	53° 16' "	6° 7' "	—	R. O'Brien Furlong	R.
Kirkwall	58° 5' "	2° 57' "	—	Coastguard	W.
Kish Bank Lightship	53° 1' "	5° 55' "	—	Light keepers	W.
Ladylaw (Hawick)	55° 28' "	2° 47' "	439	W. R. Wilson	C. D.
§ Laing	58° 1' "	4° 22' "	335	J. McLeod	E. F.
Lamlash, Isle of Arran, Scotland.	55° 32' "	5° 8' "	—	Coastguard	W.

Appendix XI.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer,	Nature of Infor- mation supplied.
Laudale, Argyleshire	56 41 N.	5 41 W.	14	A. Fletcher, for T. H. G. Newton.	D. F.
S Lednathie	56 45 "	3 7 "	719	W. Morrison for Stormonth Daring).	E.
Leith	55 58 "	3 10 "	20	T. Richardson	T.
Leman and Ower Lightship	55 8 "	2 2 E.	—	Light-keepers	W.
Lerwick	60 9 "	1 8 W.	—	Coastguard	W.
S Lissan, Co. Tyrone	54 41 "	6 45 "	305	Sir Nathaniel Staples, Bart.	E.
Llandinam, Montgomery	52 29 "	3 26 "	406	Edward Davies	R.
Llandovery	51 59 "	3 43 "	217	J. Watkins	F.
LLandudno	53 21 "	3 50 "	88	J. Nicol	E. F.
London (Brixton)	51 29 "	0 7 "	220	J. McMaster	S.
" (City)	51 32 "	0 8 "	77	F. Gaster	T.
" (Pall Mall)	51 32 "	0 8 "	80	Messrs. de la Rue	S.
" (Stamford Hill)	51 36 "	0 5 "	—	Athenaeum Club	C.
" (Westminster)	51 31 "	0 8 "	275	Rev. J. Seymour St. John.	R.
Londonderry	55 0 "	7 19 "	67	The Staff of the Met. Office.	B. S.
Loughborough	52 47 "	1 12 "	169	J. Conroy	D. F.
Lowestoft	52 29 "	1 44 E.	—	W. Berridge	T.
Malin Head, Co. Donegal	55 23 "	7 24 W.	230	J. Moore	G.
Manchester	53 29 "	2 13 "	190	O. O'Doherty	T. C.
S Marchmont	55 44 "	2 25 "	498	J. Tatham	G. S.
# Margate	51 24 "	1 24 E.	83	J. A. Wood	E. F. S.
Market Rasen	53 23 "	0 20 W.	83	J. Stokes	D. S.
Markree Castle, Co. Sligo	54 11 "	8 27 "	122	W. B. Jevons	R.
Minard, Co. Kerry	52 7 "	10 8 "	—	A. Marth, for Col. Cooper.	D. F. S.
Mold (Penbedw)	53 12 "	3 11 "	650	Coastguard	W.
Morpeth	55 11 "	1 40 "	—	H. W. Buddicom	C.
Mount Nugent (Arley Cottage).	53 50 "	7 18 "	262	Captain H. Terry	G. C.
Major Somerset H. Maxwell.				Major Somerset H. Maxwell.	D. S.
Nairn	57 36 "	3 52 "	84	Miss Penny	T.
Newcastle-on-Tyne	54 58 "	1 37 "	152	N. H. Martin	G. S.
Newarp Lightship	52 45 "	1 53 E.	—	Light-keepers	W.
Newquay, Cornwall	50 25 "	5 4 W.	250	J. Pearce	S.
"	50 25 "	5 5 "	—	Coastguard	W.
Northallerton	51 20 "	1 26 "	180	W. Stead	R.
North Foreland	51 23 "	1 27 E.	115	A. Cox	T.
North-West Lightship Liverpool.	53 31 "	3 31 W.	—	Light keepers	W.
S Ochtertyre	56 23 "	3 53 "	329	G. Croucher, for Sir P. K. Murray, Bart.	E. F.
Omagh (Edenfel)	54 36 "	7 19 W.	300	Col. Buchanan	F.
Oswaldkirk, Yorks.	54 12 "	1 3 "	—	R. Thompson	S.
Outer Dowsing Lightship	53 27 "	1 5 E.	—	Light-keepers	W.
Owers Lightship	50 39 "	0 41 W.	—	—	W.
Oxford	51 46 "	1 16 "	208	W. Wickham, for E. J. Stone.	T. S.
Parkstone, Dorset	50 43 "	1 56 "	197	R. H. Barnes	D.
Parsonstown (Birr Castle)	53 6 "	7 55 "	175	O. Boedicker, for Earl of Rosse.	D. S. T.
Pennant Bay, Aberdour	57 40 "	2 16 "	—	Coastguard	W.
S Putmore Girvan	55 12 "	4 49 "	187	P. Donald, for Capt. Hamilton.	E.
Plymouth (The Hoe)	50 22 "	4 8 "	116	H. Victor Prigg	D. F. S.
(Freedom Fields)	50 24 "	4 8 "	207	—	R.
S Poltalloch	56 8 "	5 30 "	132	J. Russell, for John Malcolm of Pol- talloch.	E.
Portrush	55 13 "	6 40 "	—	Coastguard	W.
Prawle Point	50 12 "	3 43 "	332	M. Holmes	T.
Prestwich	53 32 "	2 17 "	294	T. R. H. Clunn	D. F. S.
Roche's Point, Cork	1 47 "	8 19 "	42	W. Kennedy	T.
Rochford, Tenbury	52 18 "	2 36 "	316	John Tomson	R. C.
S Rosewell	55 51 "	3 7 "	690	R. W. D. Cameron	E.
Rothamsted	51 48 "	0 22 "	368	Sir J. B. Lawes and Sir J. H. Gilbert.	F. S.
S Rothesay	55 50 "	5 4 "	115	J. Kay	E.
# Rounton, Yorkshire	54 24 "	1 18 "	249	Sir I. L. Bell, Bart.	E.
# Rousdon, Devon	50 42 "	3 0 "	523	C. E. Peck	E.
Roxborough, Co. Limerick	52 39 "	8 36 "	—	A. W. Shaw	R.

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.
Royal Sovereign Light- ship.	50° 43' N.	0° 27' E.	—	Light-keepers	W.
Rugby	52° 22' "	1° 15' W.	379	H. P. Righton	G.
St. Ann's Head, Pembroke	51° 41' "	5° 11' "	150	H. T. Knott	T. S. W.
St. David's, Pembrokeshire	51° 53' "	5° 16' "	215	W. P. Propert	D.
St. Helen's, Lancashire	53° 28' "	2° 45' "	161	J. Robertson	G.
St. Leonards	50° 51' "	0° 33' E.	129	H. Colborne	D. F. S.
Salcombe, Kingsbridge	50° 14' "	3° 46' W.	—	Coastguard	W.
Sandgate, Kent	51° 4' "	1° 9' E.	56	H. E. Stilgoe	E.
Scarborough	54° 17' "	0° 23' W.	159	H. G. H. Monk	D. F.
Schull	51° 32' "	9° 32' "	—	Coastguard	W.
Scilly Islands (St. Mary's)	49° 56' "	6° 18' "	80	A. Hicks	G. B.S.T.W. C.
Seafield, Miltown Malbay Co. Clare.	52° 48' "	9° 30' "	—	Coastguard	W.
Seaham Harbour	54° 50' "	1° 19' "	148	G. H. Aird	D.
Sedbergh	54° 19' "	2° 32' "	400	A. P. Burra	E.
Seven Stones Lightship	50° 4' "	6° 5' "	—	Light-keepers	W.
Shambles Lightship	50° 31' "	2° 20' "	—	—	W.
Sheffield	53° 23' "	1° 29' "	429	E. Howarth	D.
Shields, North	56° 0' "	1° 27' "	97	J. W. Irvine	T.
Shields, North, High Light- house.	55° 0' "	1° 27' "	—	Captain Harrison	B.
Shipwash Lightship	52° 2' "	1° 38' E.	—	Light-keepers	W.
Solihull, Birmingham	52° 28' "	1° 48' W.	459	B. Boothroyd	G. F.
Solway Lightship	54° 48' "	3° 32' "	—	Light-keepers	W.
Southampton	50° 53' "	1° 24' "	78	J. T. Cook, for Dir. Gen. of Ordnance Survey.	D.F.S.
South Rock Lightship	54° 25' "	5° 22' "	—	Light-keepers	W.
Spiddal, Co. Galway	53° 15' "	9° 17' "	—	Coastguard	G.
Spurn Head	53° 34' "	0° 7' E.	19	G. Freeman	T.
Spurn Lightship	53° 34' "	0° 13' "	—	Light-keepers	W.
Stokesay, Craven Arms	52° 26' "	2° 52' W.	370	Miss M. A. Digges La Touche.	D.
Stonyhurst College	53° 51' "	2° 28' "	375	Rev. W. Sidgreaves	A.D.F.
Stornoway	58° 11' "	6° 22' "	28	J. Mackenzie	T.S.C.
Stowell, Sherborne, Dorset-	56° 57' "	2° 31' "	376	Coastguard	W.
Stranraer	54° 54' "	5° 2' "	—	Rev. H. J. Poole	F.
Stratfield Turgiss, Hants	51° 20' "	1° 0' "	195	Rev. C. H. Griffith	F.
Stratheffer-Spa, N.B.	57° 34' "	4° 34' "	253	J. Tregelles Fox	D.
Sumburgh Head (Duuross- ness).	59° 51' "	1° 17' "	126	Rev. W. Brand	T. C.
Sunderland	54° 54' "	1° 23' "	—	Coastguard	W.
Sutton Coldfield	52° 34' "	1° 49' "	392	C. F. Marston	S.
Symbister, Shetlands	60° 14' "	1° 25' "	—	J. S. Nicolson	G.
Tealby, Lincolnshire	53° 24' "	0° 16' "	251	Rev. S. Lewin	D.
Teelin, Donegal	54° 38' "	8° 39' "	—	Coastguard	W.
Tenby	51° 41' "	4° 42' "	79	J. E. Gower	S.
Thurcaston, Leicester	52° 42' "	1° 10' "	253	Rev. T. A. Preston	S.
Torquay	50° 28' "	3° 31' "	—	A. Chandler	S.
Totland Bay, Isle of Wight	50° 41' "	1° 33' "	84	J. Dover	G.
Union Hall, Co. Cork	51° 33' "	9° 8' "	—	Coastguard	G.
Uppingham	52° 35' "	0° 44' "	484	Rev. G. H. Mullins	D.
Uzon (Montrose)	56° 40' "	2° 28' "	—	Coastguard	W.
Valencia Observatory, Cahirciveen.	51° 56' "	10° 15' "	80	J. E. Cullum	A. T.C.
" Island (Glanleam)	51° 56' "	10° 20' "	—	Miss E. Fitzgerald	R.
" (Knightstown)	51° 55' "	10° 20' "	—	Coastguard	G.
Wakefield	53° 41' "	1° 36' "	96	H. Clarke	E.
Waterford (Brook Lodge)	52° 14' "	7° 6' "	104	C. P. Bolton	F.
Waterford	52° 16' "	7° 7' "	—	Harbour Authorities	C.
Westbourne, Sussex	50° 52' "	0° 55' "	—	Rev. L. B. Birkett	S.
Westray, Orkney	59° 17' "	3° 0' "	—	J. Hewison	G.
Wick	58° 27' "	3° 6' "	80	J. Sinclair	T.
Wolfelee	55° 23' "	2° 39' "	587	Constguard	W.
Worksop	53° 18' "	1° 8' "	—	W. Cockburn	D.
Yarmouth	52° 37' "	1° 43' E.	10	G. T. Watson	B.T.C.
Ynis-y-bro, Newport	51° 38' "	3° 3 W.	115	F. W. Houghton	R.
York (Boothgate)	53° 57' "	1° 5' "	—	J. E. Clark	S.
" (The Museum)	53° 57' "	1° 5' "	51	H. M. Platnauer	D. T.

Appendix XI.

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In addition to those already mentioned, reports are received daily from the following Continental Stations.

Station.	Authority.	Station.	Authority.
Haparanda		†The Helder	
Hernö sand		Cape Gris Nez	
*Stockholm	Meteorological Office, Stockholm.	†Brest (S.t. Mathieu)	
Visby		Lorient (Ile de Groix)	
Karlstad		*†Rochefort (Ile d' Aix)	
Bodö		†Biarritz	
*Christiansund	Meteorological Institute, Christiania.	Paris	
*Skudesuaes		Belfort	
Færder		Lyons	
*The Scaw	Meteorological Institute, Copenhagen.	Nice	
Fanö		Perpignan	
Cuxhaven	Deutsche Seewarte, Hamburg.	Berlin	
		Wiesbaden	
		Munich	
		Corunna	
		*Lisbon	
		Azores (P. Delgada)	
			Bureau Central Météorologique, Paris.
			Cent. Met. Inst. of Germany.
			Observatory, Lisbon.

Note.—The stations marked with an asterisk (*) report also at 2h. p.m., and those with a dagger (†) at 6h. p.m.; Lisbon reports at 4h. p.m. instead of 6h. p.m.

The Helder does not send reports at 6 p.m. on Sundays.

R E P O R T

OF THE

METEOROLOGICAL COUNCIL

For the Year ending 31st of March 1896;

SUBMITTED TO THE

PRESIDENT AND COUNCIL

OF THE

ROYAL SOCIETY.

Presented to Parliament by Command of Her Majesty.



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1896.

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(REPORT OF METEOROLOGICAL COUNCIL.)

MAP SHOWING THE APPROXIMATE POSITIONS OF THE STATIONS FROM WHICH OBSERVATIONS ARE RECEIVED.



For details of Information Received. - See Appendix XI.

APPENDIX XI.

LIST of STATIONS in the BRITISH ISLANDS from which INFORMATION has been received at the METEOROLOGICAL OFFICE during the year ending March 31st, 1896.

The Stations marked "S" are in connexion with the Scottish Meteorological Society, and those marked "M" are in connexion with the Royal Meteorological Society. The returns from these Stations are received by the Office under an arrangement which will be found detailed in previous reports.

In certain cases where the actual station at which the Observations have been taken is not generally known, and could not be readily identified, the name of some village or town near has been inserted following the name of the station, within brackets.

The nature of the information received from each station is indicated by letters as follows :—

A. *Observatories*.—Continuous record of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form, and motion of the clouds, and notes on the weather.

B. *Anemograph Stations*.—Continuous record of the direction and velocity (or force) of the wind.

C. *Barograph Stations*.—Continuous record of pressure.

D. *Second Order Stations*.—Regular observations at 9 a.m. and 9 p.m. each day, local time, of pressure, temperature (dry-bulb and wet-bulb), wind, cloud, and weather, with the daily maxima and minima of temperature, the daily rainfall, and general remarks on the weather.

E. *Second Order Stations*.—Monthly means and summaries on Form B. of observations taken at 9 a.m. and 9 p.m., each day as above.

F. *Climatological Stations*.—The maximum and minimum temperature and the rainfall for each day, with remarks on the weather. This information is sent to the Meteorological Office each week for use in the "Weekly Weather Report."

G. *Third Order Stations*.—Observations of the same kind as at Second Order Stations, but either :—

- (a) less full.
- (b) taken only once daily.
- (c) taken at irregular hours.

R. *Rainfall Stations*.—Daily observations of the amount of rainfall, with remarks on the weather.

S. *Sunshine Stations*.—Continuous record of bright sunshine.

T. *Telegraphic Stations*.—Regular observations at 8 a.m. and 6 p.m. G.M.T. (and from some stations at 2 p.m. in addition), of pressure, temperature, wind and weather, with the daily maxima and minima of temperature, the daily rainfall, and, where possible, the sea-disturbance at 8 a.m. each day and the daily amount of bright sunshine. This information is sent to the Meteorological Office each day by telegraph, for use in the "Daily Weather Report" and, as required, for use in the "Weekly Weather Report."

W. *Sea-temperature*.—Daily observations of the temperature of the sea water.

Appendix XI.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.
Aberdeen Observatory	57° 10' N.	2° 6' W.	46	Prof. C. Niven	A. T. C.
Cove Bay	57° 9" "	2° 5" "	—	Coastguard	W.
Alnwick Castle	55° 25" "	1° 43" "	210	Humphry Willyams, for the Duke of Northumberland.	B. F.
Ardrossan, Ayrshire	55° 38" "	4° 50" "	15	J. W. Mayes	T.
Arley Cottage (Mount Nugent).	53° 50" "	7° 18" "	262	Maj. Somerset H. Maxwell.	D. S.
Arlington Court, Barn- staple.	51° 8" "	3° 59" "	613	W. Stewart, for Lady Chichester.	F.
Armagh Observatory	54° 21" "	6° 39" "	196	J. L. E. Dreyer	B.D.F.S.
Arran, North, Galway	53° 6" "	9° 40" "	—	Coastguard	G. W.
Aysgarth Vicarage, Yorks.	54° 18" "	1° 58" "	646	Rev. F. W. Stow	D.
Bahama Bank Lightship	54° 20" "	4° 13" "	—	Light-keepers	W.
Ballantrae, Ayrshire	55° 6" "	5° 0" "	—	Coastguard	W.
Ballydonegan, Co. Cork	51° 38" "	10° 3" "	—	"	W.
Ballyglass, Co. Mayo	54° 17" "	9° 52" "	—	"	W.
Baltimore, Co. Cork	51° 28" "	9° 22" "	—	R. Brennar	G.
Bantry	51° 41" "	9° 27" "	—	Miss M. J. Tolan	R.
Belmullet, Co. Mayo	54° 13" "	9° 59" "	40	W. H. Divers	T.
Belvoir Castle, Grantham	52° 54" "	0° 47" "	259	R. T. Omond, for Directors Ben Nevis Observatory.	D.
Ben Nevis	56° 48" "	5° 0" "	4,406	O. Boedicker, for Earl of Rosse.	A.
Bennington, Herts.	51° 54" "	0° 5" "	407	Rev. J. D. Parker	E.
Berkhamsted	51° 46" "	0° 34" "	400	E. Mawley	E.
Bidston Observatory, Liver- pool.	53° 24" "	3° 4" "	183	W. E. Plummer	D. T.
Birr Castle, Parsonstown	53° 6" "	7° 55" "	175	O. Boedicker, for Earl of Rosse.	D. S. T.
Blackpool	53° 48" "	3° 3" "	31	A. J. Anderson	F. S.
Blacksod Point, Co. Mayo	54° 6" "	10° 4" "	—	Coastguard	W.
Bolton, Chadwick Museum	53° 35" "	2° 27" "	389	W. W. Midgley	G.
Bournemouth	50° 43" "	1° 53" "	—	Messrs. Primavesi for Town Council.	S.
Braemar	57° 0" "	3° 24" "	1,111	J. Aitken	D. F. S.
Bramley, Surrey	51° 11" "	0° 33" "	148	J. Bartlett	D.
Bray, Co. Wicklow	53° 12" "	6° 6" "	—	Coastguard	G.
Brighton	50° 49" "	0° 8" "	—	A. Newsholme	S.
Bristol	51° 28" "	2° 35" "	92	J. Harvey Jones	F.
Broadford (Hurdlestowen), Co. Clare.	52° 48" "	8° 38" "	157	Maj. W. O. Bentley, R.A.	R.
Bournemouth, Ayton, Berwick	55° 51" "	2° 4" "	—	Coastguard	W.
Buratisland	56° 4" "	3° 14" "	—	—	W.
Buxton	53° 14" "	1° 54" "	987	E. J. Sykes	E.
Caernarvon Bay Lightship	53° 6" "	4° 45" "	—	Light-keepers	W.
Cambridge	52° 13" "	0° 6° E.	88	Miss A. Walker	T. S.
Cardigan Bay Lightship	52° 25" "	5° 1 W.	—	Light-keepers	W.
Cargin	55° 2" "	3° 37" "	72	P. Dudgeon (the late) and A. Peacock.	E.
Carrigallen, Co. Leitrim	53° 58" "	7° 33" "	9350	Mrs. J. Godley	R.
Castletownshend, Co. Cork	51° 32" "	9° 11" "	—	Coastguard	G.
Chatham	51° 23" "	0° 32 E.	136	The Instructor in Surveying.	G.
Cheadle	52° 58" "	1° 57 W.	646	J. C. Philips	E. F.
Cheltenham	51° 54" "	2° 3" "	184	R. Tyre	E.
Chester	53° 12" "	2° 54" "	59	Rev. J. Cairns Mitchell.	D.
Churchill, Oxon	51° 56" "	1° 34" "	9450	Giles Edmonds	R.
Churchstoke	52° 31" "	3° 5" "	538	P. Wright	D. F. S.
Cirencester	51° 43" "	1° 57" "	446	Prof. Ohm	F. S.
Cleggan, Co. Galway	53° 33" "	10° 8" "	—	Coastguard	W.
Colbroke Park, Brooke- borough, Co. Fermanagh.	54° 21" "	7° 22" "	271	M. Ferguson, for Sir A. D. Brooke, Bt.	D. F.
Colwyn Bay	53° 17" "	3° 43" "	—	R. E. Lord	S.
Coningsbeg Lightship	52° 2" "	6° 40" "	—	Light-keepers	W.
Cooper's Hill, Egham	51° 26" "	0° 34" "	279	Prof. H. McLeod	G.
Cromarty	57° 41" "	4° 0" "	—	Coastguard	W.
Cronkbourne (Douglas), Isle of Man.	54° 10" "	4° 29" "	137	A. W. Moore	D. F. S.
Crookhaven	51° 28" "	9° 43" "	—	Coastguard	G.
Crosshaven	51° 48" "	8° 18" "	—	"	G.
Cuckfield, Sussex	51° 1" "	0° 9" "	389	John Howe	R.
Callington	50° 51" "	3° 23" "	202	T. Turner	F. S.
Currygrane (Edgeworths- town), Co. Longford.	53° 45" "	7° 39" "	267	J. M. Wilson	D. F.

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Information supplied.
Danum's Rock Lightship	51 43 N.	8 16 W.	—	Light-keepers	W.
Deerness, Orkney Islands	58 56 "	2 45 "	169	M. Spence	B. D. S.
Donaghadee	54 38 "	5 32 "	26	T. MacGowan	T.
Doueraile, Co. Cork	52 13 "	8 24 "	—	Captain Evans	R.
Dover, Waterworks	51 7 "	1 18 E.	198	H. E. Stilgoe	R.
Dublin, Botanic Gardens, Glasnevin.	53 23 "	6 16 W.	67	F. W. Moore	D.
" City	53 20 "	6 15 "	47	J. W. Moore	D. F.
Mountjoy Obs., Phoenix Park.	53 22 "	6 21 "	155	Lt.-Col. Kirkwood, R.E.	B. D. S.
Duddington	52 36 "	0 32 "	152	Fred Coventry	R.
¶ Dundee	56 28 "	2 50 "	160	J. Carnochan	D.
Dunfanaghy (Sheephaven)	55 11 "	7 58 "	—	Coastguard	W.
Dungeness	50 55 "	0 59 E.	26	W. Batton	T.
¶ Dunrobin Castle	57 59 "	3 56 W.	12	D. Melville, for the Duke of Sutherland.	D.
Durham	54 46 "	1 35 "	336	H. J. Carpenter	D. F. S.
Drury (Farnley), Glos.	51 41 "	2 21 "	—	R. W. Pinney	R.
Eastbourne	50 46 "	0 17 E.	38	R. Sheward	D. S.
East Goodwin Lightship	51 13 "	1 36 "	—	Light-keepers	W.
Edinburgh	55 57 "	3 12 W.	253	R. C. Mossman	D. S.
English and Welsh Grounds Lightship.	51 27 "	3 0 "	—	Light-keepers	W.
Ennis, Co. Clare	52 51 "	8 59 "	18	P. L. K. Dobbin	R.
Roslevan	52 51 "	8 59 "	40	Mrs. J. W. Scott	R.
Epsom, R. Med. College	51 20 "	0 14 "	234	W. T. N. Spivey	D.
Falmouth	50 9 "	5 4 "	167	E. Kitto	A. F.
Fleetwood	53 56 "	3 1 "	—	M. S. Gaunter	B.
Forgandenny, Perth	56 21 "	3 29 "	175	C. L. Wood	C.
¶ Fort Augustus	57 8 "	4 40 "	68	Rev. M. Wall	E. F. S.
Fort William	56 48 "	5 6 "	32	R. T. Omond, for Directors, Ben Nevis Observatory.	A. F.
Foynes, Co. Limerick	52 37 "	9 7 "	108	Lord Monteagle	F.
Fredville (Dover)	51 7 "	1 18 E.	173	H. W. Plumptire	R.
Fulbeck, Lincolnshire	53 3 "	0 37 W.	180	Rev. Vere F. Willson	D.
Geldeston, Beccles	52 28 "	1 31 E.	37	E. T. Dowson	D. F. S.
Gilcrux (Maryport)	54 44 "	3 23 W.	261	J. Monkhouse	D.
Glasgow	55 53 "	4 18 "	180	Prof. L. Becker	A. D. F.
¶ Glencarron	57 30 "	5 14 "	489	D. D. Munro	E. F.
¶ Glenlee	55 5 "	4 12 "	203	W. Melville	E. F.
¶ Gordon Castle	57 37 "	3 5 "	101	J. Webster (for the Duke of Richmond and Gordon, K.G.).	E.
Gorleston, Suffolk	52 35 "	1 43 E.	—	R. J. C. Day	G.
Guernsey (St. Peter's)	49 32 "	2 32 W.	—	F. E. Carey	S.
Harpden, Herts.	51 49 "	0 20 "	419	T. Wilson	G.
Haslar Hospital, Hants	50 47 "	1 7 "	—	T. Rogers	G.
Hawes Junction	54 19 "	2 18 "	1135	W. H. Bunce	G.
Hesley Hall (Bawtry)	53 26 "	1 2 "	65	B. I. Whitaker	F.
¶ Hereford	52 5 "	2 45 "	274	T. A. Chapman	F.
Heysham Hall, Lancashire	54 3 "	2 54 "	95	S. Lomas, for Miss L. Grafton.	D.
Hillington	52 48 "	0 33 E.	88	Rev. H. E. B. Ffolkes	D. F. S.
Holyhead, Harbour Office	53 18 "	4 39 W.	57	F. M. Cotton	B. W.
Sailors' Home	53 18 "	4 39 "	48	T. Chope	T.
Hurst Castle	50 42 "	1 33 "	12	E. T. Tremble	T.
Kearsney Abbey, Dover	51 8 "	1 17 E.	2100	C. W. Curtis	R.
Ketton, Stamford	52 38 "	0 32 W.	—	F. Coventry	F. G.
" The Holmes	52 38 "	0 32 "	—	—	R.
" Colly Westou	52 37 "	0 31 "	270	Miss A. Tasker	R.
Kew Observatory	51 28 "	0 19 "	18	C. Chree	A.
Kilcredaone, Co. Clare	52 35 "	9 47 "	—	Coastguard	W.
Kilkenny	52 39 "	7 14 "	212	H. Carlton, for the Marquis of Or- monde.	C. F.
¶ Killarney	52 4 "	9 30 "	86	Ven. Archdeacon Wynne	E. F.
Killeney (Cloneevin), Co. Dublin.	53 16 "	6 7 "	—	R. O'Brien Furlong	R.
Kirkwall	58 59 "	2 57 "	—	Coastguard	W.
Kish Bank Lightship	53 19 "	5 55 "	—	Light-keepers	W.

Appendix XI.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.
Ladylaw (Hawick) -	55° 28' N.	2° 47' W.	439	W. R. Wilson Coastguard -	C. D. W.
Lamalsh, Isle of Arran, Scotland.	55 32 "	5 8 "	-		
Laudale, Argyleshire -	56 41 "	5 41 "	14	A. Fletcher, for T. H. G. Newton.	D. F.
§ Lednathie -	56 45 "	3 7 "	719	W. Morrison (for Stormonth Dar- ling).	E.
Leith -	55 58 "	3 10 "	20	T. Richardson -	T.
Leman and Ower Lightship	53 8 "	2 2 E.	-	Light-keepers -	W.
Lerwick -	60 9 "	1 8 W.	-	Coastguard -	W.
Limerick -	52 39 "	8 36 "	-	A. W. Shaw -	R.
Liscannor, Co. Clare -	52 56 "	9 23 "	-	Coastguard -	W.
§ Lissan, Co. Tyrone -	54 41 "	6 45 "	305	Sir N. Staples, Bt.	E.
Llandinam, Montgomery -	52 29 "	3 26 "	496	Edward Davies -	R.
Llandovery -	51 59 "	3 48 "	217	J. Watkins -	F.
¶ Llandudno -	53 21 "	3 50 "	88	J. Nicol -	E. F.
" London, Brixton -	53 21 "	3 51 "	? 20	J. McMaster -	S.
City -	51 29 "	0 7 "	77	F. Gaster -	T.
" Pall Mall -	51 32 "	0 5 "	80	Messrs. de la Rue -	S.
" Stamford Hill -	51 32 "	0 8 "	-	Athenaeum Club -	C.
" Westminster -	51 36 "	0 5 "	? 75	Rev. J. S. St. John -	R.
" Westminster Training College.	51 31 "	0 8 "	76	The Staff of the Met. Office.	B.
Londonderry -	55 0 "	7 19 "	67	H. A. Reatchlous -	S.
Loughborough -	52 47 "	1 12 "	169	J. Conroy -	D. F.
Lowestoft -	52 29 "	1 44 E.	-	W. Berridge -	T.
				J. Moore -	G.
Machrihanish -	55 25 "	5 44 W.	16	J. Franklin-Adams -	G.
Malin Head, Co. Donegal -	55 23 "	7 24 "	230	J. Williams -	T. C.
Manchester -	53 29 "	2 13 "	190	J. Niven -	G. S.
§ Marchmont -	55 44 "	2 25 "	498	J. A. Wood -	E. F. S.
¶ Margate -	51 24 "	1 24 E.	83	J. Stokes -	D. S.
Markree Castle, Co. Sligo -	54 11 "	8 27 W.	122	A. Marth, for Col. Cooper.	D. F. S.
Minard, Co. Kerry -	52 7 "	10 8 "	-	Coastguard -	W.
Morpeth -	55 11 "	1 40 "	-	Captain H. Terry -	C.
Nairn -	57 36 "	3 52 "	84	Miss Penny -	T.
Newcastle-on-Tyne -	54 58 "	1 37 E.	152	N. H. Martin -	G. S.
Newarp Lightship -	52 45 "	1 53 E.	-	Light-keepers -	W.
Newport, Monmouth -	51 35 "	3 0 W.	-	T. W. Houghton -	R.
Newquay, Cornwall -	50 25 "	5 4 "	? 250	J. Pearce -	S.
Northallerton "	50 25 "	5 5 "	-	Coastguard -	W.
North Foreland -	54 20 "	1 26 "	130	W. Stead -	R.
North-West Lightship, Liverpool.	51 23 "	1 27 E.	115	A. Cox -	T.
	53 31 "	3 31 W.	-	Light-keepers -	W.
§ Ochtertyre -	56 23 "	3 53 "	329	G. Croucher, for Sir P. K. Murray, Bt.	E. F.
Omagh (Edenfel) -	54 36 "	7 19 "	300	Col. Buchanan -	F.
Oswaldkirk, Yorks.	54 12 "	1 3 E.	-	R. Thompson -	S.
Outer Dowsing Lightship -	53 27 "	1 5 E.	-	Light-keepers -	W.
Owers Lightship -	50 39 "	0 41 W.	-	W. Wickham, for E. J. Stone.	T. S.
Oxford -	51 46 "	1 16 "	208		
Parkstone, Dorset -	50 43 "	1 56 "	197	R. H. Barnes -	D.
Penbedw, Mold -	53 12 "	3 11 "	650	H. W. Buddicom -	C.
Pennant Bay, Aberdour -	57 40 "	2 16 "	-	Coastguard -	W.
§ Pinmore, Girvan -	55 12 "	4 40 "	187	P. Donald, for Capt. Hamilton.	E.
Plymouth, The Hoe Freedom Fields -	50 22 "	4 8 "	116	H. Victor Prigg -	D. F. S.
¶ Poltalloch -	50 24 "	4 8 "	207	J. Russell, for Lord Malcolm.	R.
Portrush -	56 8 "	5 30 "	132	Coastguard -	E.
Prawle Point -	55 13 "	6 40 "	-	M. Holmes -	T.
Prestwich -	50 12 "	3 43 "	332	T. R. H. Clunn -	D. F. S.
Roche's Point, Co. Cork -	51 47 "	8 19 "	42	W. Kennedy -	T.
Rochford, Tenbury -	52 15 "	2 36 "	316	Rev. John Tomson -	R. C.
§ Rosewell -	55 51 "	3 7 "	690	R. W. D. Cameron -	E.

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer,	Nature of Infor- mation supplied.
Rothamsted - - -	51 48 N.	0 22 W.	308	Sir J. B. Lawes and Sir J. H. Gilbert.	F. S.
Rothesay - - -	55 50 "	5 4 "	115	J. Kay - - -	E.
Roundton, Yorkshire - - -	54 24 "	1 18 "	249	Sir I. L. Bell, Bart.	E.
Rousdon, Devon - - -	50 42 "	3 0 "	523	C. E. Peek - - -	E.
Roxborough, Co. Limerick - - -	52 35 "	8 36 "	-	A. W. Shaw - - -	R.
Royal Sovereign Light- ship, - - -	50 43 "	0 27 E.	-	Light-keepers - - -	W.
Rugby - - -	52 22 "	1 15 W.	379	E. Kitchener - - -	G.
St. Ann's Head, Pembroke - - -	51 41 "	5 11 "	150	H. T. Knott - - -	T. S. W.
St. Aubin's, Jersey - - -	49 12 "	2 11 "	25	J. Fisher - - -	T.
St. David's, Pembrokeshire - - -	51 53 "	5 16 "	215	W. P. Propert - - -	D.
St. Helen's, Lancashire - - -	53 28 "	2 45 "	151	J. Robertson - - -	G.
St. Heliers, Jersey - - -	49 11 "	2 6 "	-	Signal Officer, Fort Regent. - - -	S.
St. Leonards - - -	50 51 "	0 33 E.	129	H. Colborne - - -	D. F. S.
Salcombe, Devon - - -	50 14 "	3 46 W.	-	Coastguard - - -	W.
Sandgate, Kent - - -	51 4 "	1 9 E.	56	A. Robert Bowles - - -	R.
Scarborough - - -	54 17 "	0 23 W.	150	H. G. H. Monk and E. W. Ellerbeck. - - -	D. F.
Schull - - -	54 17 "	0 23 "	-	Coastguard - - -	W.
Scilly Islands, St. Mary's - - -	49 56 "	6 18 "	80	A. Hicks - - -	B.S.T.W. O.
Seafield, Milltown Malbay Co. Clare. - - -	52 48 "	9 30 "	-	Coastguard - - -	W.
Seaham Harbour - - -	54 50 "	1 19 "	148	G. H. Aird - - -	D.
Sedbergh - - -	54 19 "	2 32 "	400	A. P. Burra - - -	R.
Seven Stones Lightship - - -	50 4 "	6 5 "	-	Light-keepers - - -	W.
Shambles Lightship - - -	50 31 "	2 20 "	-	- - -	W.
Sheffield - - -	53 23 "	1 29 "	429	E. Howarth - - -	D.
Shields, North - - -	55 0 "	1 27 "	97	J. W. Irvine - - -	T.
Shields, North, High Light- house. - - -	55 0 "	1 27 "	-	Captain Harrison - - -	B.
Shipwash Lightship - - -	52 2 "	1 38 E.	-	Light-keepers - - -	W.
Skipton - - -	53 58 "	2 9 W.	567	W. Ecroyd - - -	G.
Solihull (Birmingham) - - -	52 28 "	1 48 "	459	B. Boothroyd - - -	F.
Solway Lightship - - -	54 48 "	3 32 "	-	Light-keepers - - -	W.
Southampton - - -	50 55 "	1 24 "	78	J. T. Cook, for Dir. Gen. of Ordnance Survey. - - -	D.F.S.
Southport - - -	53 39 "	2 50 "	-	J. Baxendell - - -	S.
South Rock Lightship - - -	51 25 "	5 22 "	-	Light-keepers - - -	W.
Spiddal, Co. Galway - - -	53 15 "	9 17 "	-	Coastguard - - -	G.
Spurn Head - - -	53 34 "	0 7 E.	19	G. Freeman - - -	T.
Spurn Lightship - - -	53 34 "	0 13 "	-	Light-keepers - - -	W.
Stokesay, Craven Arms - - -	52 26 "	2 52 W.	370	Miss M. A. Digges La Touche. - - -	D.
Stonyhurst College - - -	53 51 "	2 28 "	375	Rev. W. Sidgreaves - - -	A.D.F.
Stornoway - - -	58 11 "	6 22 "	28	J. Mackenzie - - -	T.S.C.
Stowell, Sherborne, Dorset. - - -	56 11 "	6 22 "	-	Coastguard - - -	W.
Stranraer - - -	56 57 "	2 31 "	376	Rev. H. J. Poole - - -	F.
Stratfield Turgiss, Hants - - -	54 54 "	5 2 "	-	Coastguard - - -	G.
Strathpeffer-Spa, N.B. - - -	57 34 "	4 34 "	253	The late Rev. C. H. Griffith. - - -	F.
Sumburgh Head (Dunross- ness). - - -	50 51 "	1 17 "	126	J. Tregelles Fox - - -	D.S.
Sunderland - - -	54 54 "	1 23 "	-	Rev. W. Brand - - -	T.C.
Sutton Coldfield - - -	52 34 "	1 49 "	392	Coastguard - - -	W.
Symbister, Shetlands - - -	60 14 "	1 25 "	-	C. F. Marston - - -	S.
Syston, Leicester - - -	52 43 "	1 5 "	178	J. S. Nicolson - - -	G.
Tealby, Lincolnshire - - -	53 24 "	0 16 "	251	S. K. Daniels - - -	R.
Teelin, Co. Donegal - - -	54 88 "	8 39 "	-	Rev. S. Lewin - - -	D.
Tenby - - -	51 41 "	4 42 "	79	Coastguard - - -	W.
Thurcaston, Leicester - - -	52 42 "	1 10 "	253	J. E. Gower - - -	S.
Torquay - - -	50 28 "	3 31 "	-	Rev. T. A. Preston - - -	S.
Totland Bay, Isle of Wight - - -	50 41 "	1 33 "	84	A. Chandler - - -	S.
Union Hall, Co. Cork - - -	51 33 "	9 8 "	-	J. Dover - - -	G.
Uppingham - - -	52 35 "	0 44 "	484	Coastguard - - -	G.
Uzon (Montrose) - - -	56 40 "	2 28 "	-	Rev. G. H. Mullins - - -	D.
Valencia Observatory, Ca- hirciveen. - - -	51 56 "	10 15 "	30	Coastguard - - -	W.
" Island, Glanileam - - -	51 56 "	10 20 "	-	Miss E. Fitzgerald - - -	E.
" Knightstown - - -	51 55 "	10 20 "	-	Coastguard - - -	G.
Wakefield - - -	53 41 "	1 36 "	96	H. Clarke - - -	E.
Waterford - - -	52 66 "	7 7 "	-	Harbour Authorities - - -	C.

Appendix XI.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.
Westbourne, Sussex	50° 52' N.	0° 55' W.	—	Rev. L. B. Birkett	S.
Westray, Orkney	59° 17' "	3° 0" "	—	J. Hewison	G.
Wick	58° 27' "	3° 6" "	80	J. Sinclair	T.
§ Wolfelee	58° 27' "	3° 6" "	—	Coastguard	W.
Worksop	55° 23' "	2° 39" "	587	W. Cockburn	D.
Yarmouth	52° 37' "	1° 43' E.	10	H. Mellish	S.
Isle of Wight	50° 42' "	1° 29' W.	—	G. T. Watson	B.T.C.
Ynis-y-bro, Newport	51° 38' "	3° 3" "	115	Coastguard	G.
York, Boothgate	53° 57' "	1° 5" "	—	D. Morgan	R.
" The Museum	53° 57' "	1° 5" "	51	J. E. Clark	S.
				H. M. Platnauer	D. T.

In addition to those already mentioned, reports are received daily from the following Continental Stations.

Station.	Authority.	Station.	Authority.
Haparanda		†The Helder	
Hernössand		Brussels	
†Stockholm	Meteorological Office, Stockholm.	Cape Gris Nez	
Wisby		†Brest (St. Mathieu)	
Karlstad		Lorient (Ile de Groix)	
Bodö	Meteorological Institute, Christiania.	*†Rochefort (Ile d'Aix)	Bureau Central Météorologique, Paris.
†Christiansund		†Biarritz	
*†Skudesuaes		†Paris	
Færder		Belfort	
†The Scaw	Meteorological Institute, Copenhagen.	Lyons	
Fanø		Nice	
Cuxhaven	Deutsche Seewarte, Hamburg.	Perpignan	
		Berlin	Cent. Met. Inst.
		Wiesbaden	of Germany.
		Munich	
		Corunna	Observatory,
		†Lisbon	Lisbon.
		Azores (P. Delgada)	

Note.—The stations marked with an asterisk (*) report also at 2h. p.m., and those with a dagger (†) at 6h. p.m.; Lisbon reports at 4h. p.m. instead of 6h. p.m.

The Helder does not send reports at 6 p.m. on Sundays.

R E P O R T

OF THE

METEOROLOGICAL COUNCIL,

For the Year ending 31st of March 1897,

TO THE

PRESIDENT AND COUNCIL

OF THE

ROYAL SOCIETY.

Presented to both Houses of Parliament by Command of Her Majesty.



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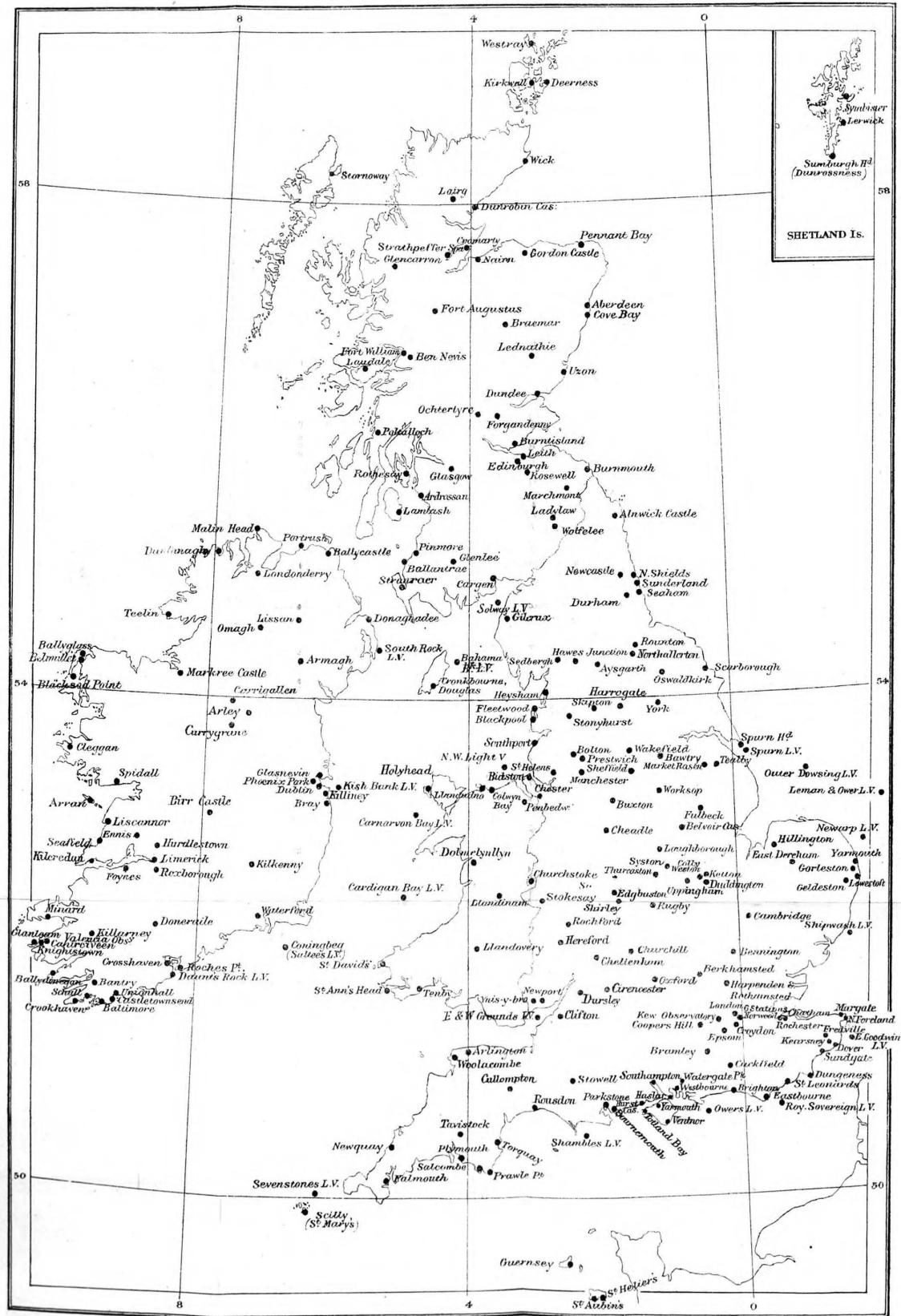
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(REPORT OF METEOROLOGICAL COUNCIL.)

MAP SHOWING THE APPROXIMATE POSITIONS OF THE STATIONS FROM WHICH OBSERVATIONS ARE RECEIVED..



For details of Information Received. - See Appendix XI.

APPENDIX XI.

LIST OF STATIONS in the BRITISH ISLANDS from which INFORMATION has been received at the METEOROLOGICAL OFFICE during the year ending March 31st, 1897.

The Stations marked "S" are in connexion with the Scottish Meteorological Society, and those marked "M" are in connexion with the Royal Meteorological Society. The returns from these Stations are received by the Office under an arrangement which will be found detailed in previous reports.

In certain cases where the actual station at which the Observations have been taken is not generally known, and could not be readily identified, the name of some village or town near has been inserted following the name of the station, within brackets.

The nature of the information received from each station is indicated by letters as follows:—

A. *Observatories*.—Continuous record of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form, and motion of the clouds, and notes on the weather.

B. *Anemographic Stations*.—Continuous record of the direction and velocity (or force) of the wind.

C. *Barographic Stations*.—Continuous record of pressure.

D. *Second Order Stations*.—Regular observations at 9 a.m. and 9 p.m. each day, local time, of pressure, temperature (dry bulb and wet bulb), wind, cloud, and weather, with the daily maxima and minima of temperature, the daily rainfall, and general remarks on the weather.

E. *Second Order Stations*.—Monthly means and summaries on Form B. of observations taken at 9 a.m. and 9 p.m., each day as above.

F. *Climatological Stations*.—The maximum and minimum temperature and the rainfall for each day, with remarks on the weather. This information is received in the Meteorological Office each week for use in the "Weekly Weather Report."

G. *Third Order Stations*.—Observations of the same kind as at Second Order Stations, but either:—

- (a) less full.
- (b) taken only once daily.
- (c) taken at irregular hours.

R. *Rainfall Stations*.—Daily observations of the amount of rainfall, with remarks on the weather.

S. *Sunshine Stations*.—Continuous record of bright sunshine.

T. *Telegraphic Stations*.—Regular observations at 8 a.m. and 6 p.m. G.M.T. (and from some stations at 2 p.m. in addition), of pressure, temperature, wind and weather, with the daily maxima and minima of temperature, the daily rainfall, and, where possible, the sea-disturbance at 8 a.m. each day and the daily amount of bright sunshine. This information is received at the Meteorological Office each day by telegraph, for use in the "Daily Weather Report" and, as required, for use in the "Weekly Weather Report."

W. *Sea-temperature*.—Daily observations of the temperature of the sea water.

Appendix XI.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspector's Report for 1896 will be found.
Aberdeen Observatory	57° 10'	2° 6' W.	46	Prof. C. Niven	A. T. C.	36, 55
Cove Bay	57° 9'	2° 5" "	—	Coastguard	W.	
Alnwick Castle	55° 25'	1° 43" "	210	Humphry Willyams, for the Duke of Northumberland.	B. F.	46, 56
Ardrossan, Ayrshire	55° 38'	4° 50" "	15	J. W. Mayes	T.	
Arley Cottage (Mount Nugent).	53° 50'	7° 18" "	262	The Lord Farnham	D. S.	35
Arlington Court, Barn- staple.	51° 8'	3° 58" "	613	W. Stewart, for Lady Chichester.	F.	37
Armagh Observatory	54° 21'	6° 30" "	196	J. L. E. Dreyer	B.D.F.S.	59
Arran, North, Galway	53° 6'	9° 40" "	—	Coastguard	G. W.	
Aysgarth Vicarage, Yorks	54° 18'	1° 58" "	616	Rev. F. W. Stow	D.	
Bahama Bank Lightship	54° 20'	4° 13" "	—	Light-keepers	W.	
Ballantrae, Ayrshire	55° 6'	5° 0" "	—	Coastguard	W.	
Ballydonegan, Co. Cork	51° 38'	10° 3" "	—	"	W.	
Ballyglass, Co. Mayo	54° 17'	9° 52" "	—	"	W.	
Baltimore, Co. Cork	51° 28'	9° 22" "	—	"	G.	
Bantry	51° 41'	9° 27" "	—	R. Brennan	R.	
Belmullet, Co. Mayo	54° 13'	9° 59" "	40	Miss E. Tolan	T.	
Belvoir Castle, Grantham	52° 54'	0° 47" "	259	W. H. Divers (for the Duke of Rutland).	D.	40
S Ben Nevis	56° 48'	5° 0" "	4,406	R. T. Omond, for Directors Ben Ne- vis Observatory.	S. E.	47
# Bennington, Herts.	51° 54'	0° 5" "	407	Rev. J. D. Parker	E.	
# Berkhamsted	51° 46'	0° 34" "	400	E. Mawley	E.	
Bidston Observatory, Liver- pool.	53° 24'	3° 4" "	188	W. E. Plummer	D. T.	38
Birr Castle, Parsonstown	53° 6'	7° 55" "	175	O. Boedicker, for Earl of Rosse.	D. S. T.	
# Blackpool	53° 48'	3° 3" "	31	A. J. Anderson	F. S.	
Black sod Point, Co. Mayo	54° 6'	10° 4" "	—	Constguard	W.	
Bolton, Chadwick Museum	53° 35'	2° 27" "	389	W. W. Midgley	G.	
Bournemouth	50° 43'	1° 53" "	—	Messrs. Primavesi, for Town Council.	S.	50
S Braemar	57° 0'	3° 24" "	1,111	J. Aitken	D. F. S.	
Bramley, Surrey	51° 11'	0° 33" "	148	J. Bartlett	D.	40
Bray, Co. Wicklow	53° 12'	6° 6" "	—	Coastguard	G.	
Brighton	50° 49'	0° 8" "	—	A. Newsholme	S.	50
Burnmouth, Ayton, Berwick	55° 51'	2° 4" "	—	Coastguard	W.	
Burntisland	56° 4'	3° 14" "	—	"	W.	
# Buxton	53° 14'	1° 54" "	987	E. A. Dent	E.	
Caernarvon Bay Lightship	53° 6'	4° 45" "	—	Light-keepers	W.	
Cambridge	52° 13'	0° 6° E.	88	Miss A. Walker	T. S.	43
Cardigan Bay Lightship	52° 25'	5° 1° W.	—	Light-keepers	W.	
S Cargen	55° 2'	3° 37" "	72	P. Dudgeon (the late) and A. Peacock.	E.	35
Carrigallen, Co. Leitrim	53° 58'	7° 38" "	9350	Mrs. J. Godley and Miss Morrow.	R.	
Castletownshend, Co. Cork	51° 32'	9° 11" "	—	Coastguard	G.	
Chatham	51° 23'	0° 32° E.	136	The Instructor in Surveying.	G.	51
# Cheadle	52° 58'	1° 57° W.	646	J. C. Philips	E. F.	
# Cheltenham	51° 54'	2° 3" "	184	R. Tyrer	E.	
Chester	53° 12'	2° 54" "	59	Rev. J. Cairns	D.	38
Churchill, Oxon	51° 56'	1° 34" "	509	Giles Edmonds	R.	
# Churchstoke	52° 31'	3° 5" "	538	P. Wright	D. F. S.	42
Cirencester	51° 43'	1° 57" "	446	Prof. Ohm	F. S.	42
Cleggan, Co. Galway	53° 33'	10° 8" "	—	Coastguard	W.	
Clifton	51° 27'	2° 37" "	230	D. Rintoul	F.	37
Colly Weston	52° 37'	0° 31" "	280	Miss A. Tasker	R.	43
Colwyn Bay	53° 17'	3° 43" "	—	R. E. Lord	S.	38
Coningbeg Lightship	52° 2'	6° 40" "	—	Light-keepers	W.	
Cooper's Hill, Egham	51° 26'	0° 34" "	279	Prof. H. McLeod	G.	
Cromarty	57° 41'	4° 0" "	—	Coastguard	W.	
Cronkbourne (Douglas)	54° 10'	4° 29" "	137	A. W. Moore	D. F. S.	38
Crookhaven	51° 28'	9° 43" "	—	Coastguard	G.	
Crosshaven	51° 48'	8° 18" "	—	"	G.	
Cuckfield, Sussex	51° 1'	0° 9" "	389	John Howe	R.	
Cullompton	50° 51'	3° 23" "	202	T. Turner	F. S.	51
Currygrane (Edgeworths- town), Co. Longford.	53° 46'	7° 39" "	267	J. M. Wilson	D. F.	
Daunt's Rock Lightship	51° 43'	8° 16" "	—	Light-keepers	W.	
Deerness, Orkney Islands	58° 66'	2° 45" "	169	M. Spence	B. D. S.	36, 54
Dolmelynllyn (Dolgelly)	52° 47'	3° 53" "	—	W. Simonds, for C. R. Williams.	R.	

Report of the Meteorological Council.

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspector's Report for 1896 will be found.
Donaghadee	54 38	6 32 W.	26	T. MacGowan	T.	
Doneraile, Co. Cork	52 13	8 34 "	246	Captain Evans	R.	
Dover, Waterworks	51 7	1 18 E.	198	H. E. Stilgoe	R.	51
Dublin, Botanic Gardens	53 23	6 18 W.	67	F. W. Moore	D.	33
" City	53 20	6 15 "	47	J. W. Moore	D. F.	33
Mountjoy Obs., Phoenix Park.	53 22	6 21 "	155	Maj. R. C. Hellard, R.E.	B. D. S.	60
Duddington	52 36	0 32 "	152	Fred Coventry	R.	43
S Dundee	56 28	2 56 "	180	J. Carnochan	D. S.	
Dunfanaghy (Sheephaven)	55 11	7 58 "	—	Coastguard	W.	
Dungeness	50 55	0 50 E.	26	W. Batton	T.	48
S Dunrobin Castle	57 59	3 56 W.	12	D. Melville, for the Duke of Sutherland.	D.	36
Durham	54 46	1 35 "	336	H. J. Carpenter	D. F. S.	46
Dursley (Farnley), Glos.	51 41	2 21 "	250	R. W. Pinney	R.	42
Eastbourne	50 46	0 17 E.	38	R. Sheward	D. S.	49
East Goodwin Lightship	51 13	1 36 "	—	Light-keepers	W.	
East Dereham	52 41	0 57 E.	168	G. H. Cooper	R.	
Edgbaston (Birmingham)	52 28	1 56 W.	534	Alf. Cresswell	D.	
Edinburgh	55 57	3 12 "	253	R. C. Mossman	D. S.	36
English and Welsh Grounds Lightship.	51 27	3 0 "	—	Light-keepers	W.	
Ennis, Co. Clare	52 51	8 59 "	18	P. L. K. Dobbin	R.	
Roslevan	52 51	8 59 "	38	Miss A. L. Scott	R.	
Epsom, R. Med. College	51 20	0 14 "	271	W. T. N. Spivey and H. E. Gardner.	D.	49
Falmouth	50 9	5 4 "	167	E. Kitto	A. F.	61
Fleetwood	53 56	3 1 "	—	M. S. Gaultier	B.	59
Forgandenny, Perth	56 21	3 29 "	175	C. L. Wood	C.	
S Fort Augustus	57 8	4 40 "	68	Rev. M. Wall	E. F. S.	35
Fort William	56 48	5 6 "	31	R. T. Omond, for Directors, Ben Nevin Observatory.	A. F.	35, 53
Foynes, Co. Limerick	52 37	9 7 "	108	Lord Monteagle	F.	
Fredville (Dover)	51 7	1 18 E.	173	H. W. Plumptre	R.	51
Fulbeck, Lincolnshire	53 3	0 37 W.	185	Rev. Vere F. Willson	D.	47
Geldeston (Beccles)	52 28	1 31 E.	37	E. T. Dowson	D. F. S.	43
Gilcrux (Maryport)	54 44	3 23 W.	261	J. Monkhouse	D. F. S.	40
Glasgow	55 53	4 18 "	180	Prof. L. Becker	A. D. F.	53
S Glencarron	57 30	5 14 "	489	D. U. Munro	E. F.	
S Glenlee	55 5	4 12 "	203	W. Melville	E. F.	35
S Gordon Castle	57 37	3 5 "	101	C. Webster (for the Duke of Richmond and Gordon, K.G.).	E.	
Gorleston, Suffolk	52 35	1 43 E.	—	R. J. C. Day	G.	
Guernsey (St. Peter's)	49 32	2 32 W.	—	F. E. Carey	S.	37
Harpden, Herts.	51 49	0 20 "	419	T. Wilson	G.	
Harrogate	54 0	1 33 "	344	G. Farrah	F. S.	
Haslar Hospital, Hants	50 47	1 7 "	—	T. Rogers	G.	
Hawes Junction	54 19	2 18 "	1135	W. H. Bunce	G.	
Hesley Hall (Bawtry)	53 26	1 2 "	65	B. I. Whitaker	F.	47
Hereford	52 5	2 45 "	274	T. A. Chapman	F.	
Heysham Hall, Lancashire	54 3	2 54 "	95	S. Lomas, for Miss L. Grafton.	D.	39
Hillington	52 43	0 33 E.	88	Rev. H. E. B. Ffolkes	D. F. S.	
Holyhead, Harbour Office	53 18	4 39 W.	57	F. M. Cotton	B. W.	57
Sailors' Home	53 18	4 39 "	48	T. Chope	T.	33
Hurdlestown, Bradford, Co. Clare.	52 48	8 38 "	167	Maj. W. O. Bentley, R.A.	R.	
Hurst Castle	50 42	1 33 "	12	E. T. Tremble	T.	48
Kearsney Abbey, Dover	51 8	1 17 E.	? 100	C. W. Curtis	R.	51
Ketton, Stamford	52 38	0 32 W.	—	F. Coventry	F. G.	43
Kew Observatory	51 28	0 19 "	18	C. Chree	A.	
Kilcredaun, Co. Clare	52 35	9 47 "	—	Coastguard	W.	
Kilkenny	52 39	7 14 "	212	H. Carlton, for the Marquis of Or- monde.	C. F.	
Killarney	52 4	9 30 "	86	Ven. Archdeacon Wynne.	E. F.	
Killiney (Cloneeavin), Co. Dublin.	53 16	6 7 "	249	R. O'Brien Furlong	R.	
Kirkwall	58 59	2 57 "	—	Coastguard	W.	
Kish Bank Lightship	53 19	5 55 "	—	Light-keepers	W.	

Appendix XI.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspector's Report for 1896 will be found.
Ladylaw (Hawick)	55° 28'	2° 47' W.	447	T. Wilson	C. D.	35
Lahinch	52 55	9 21 "	52	Miss J. Bowes	R.	
S Laing	58 1	4 22 "	335	Rev. D. Macree	E.	36
Lamlash, Isle of Arran, Scotland.	55 32	5 8 "	—	Coastguard	W.	
Laudale, Argyleshire	56 41	5 41 "	14	A. Fletcher, for T. H. G. Newton.	D. F.	35
S Lednathie	56 45	3 7 "	719	W. Morrison (for Stormonth Dar- ling).	E.	
Leith	55 58	3 10 "	20	T. Richardson	T.	38
Leman and Ower Lightship	53 8	2 2 E.	—	Light-keepers	W.	
Lerwick	60 9	1 8 W.	—	Coastguard	W.	
Limerick	52 39	8 36 "	—	A. W. Shaw	R.	
Liscannor, Co. Clare	52 56	9 23 "	—	Coastguard	W.	
S Lissan, Co. Tyrone	54 41	6 45 "	300	Sir N. Staples, Bt.	E.	
Llandinam, Montgomery	52 29	3 26 "	500	Edward Davies	R.	
Llandovery	51 59	8 48 "	217	J. Watkins	F.	41
# Llandudno	53 21	3 50 "	88	J. Nicol	E. F.	
London, Brixton	51 29	0 7 "	77	J. McMaster	S.	
" City	51 32	0 5 "	80	F. Gaster	T.	
" Pall Mall	51 32	0 8 "	—	Messrs. de la Rue	S.	
" Westminster	51 31	0 8 "	76	Athenaeum Club	C.	
" Westminster Training College.	51 31	0 8 "	—	The Staff of the Met. Office.	C. G.	
Londonderry	55 0	7 19 "	67	J. Conroy	D. F.	40
Loughborough	52 47	1 13 E.	169	W. Berridge	T.	43
Lowestoft	52 29	1 44 E.	—	J. Moore	G.	
# Lowestoft	52 29	1 44 "	85	S. H. Miller	E.	
Malin Head, Co. Donegal	55 23	7 24 W.	230	J. Williams	T. C.	40
Manchester	53 29	2 13 "	190	J. Niven	G. S.	39
S Marchmont	55 44	2 25 "	498	J. A. Wood	E. F. S.	
# Margate	51 24	1 24 E.	83	J. Stokes	S.	50
Market Rasen	53 23	0 20 W.	83	W. B. Jevons	R.	47
Markree Castle, Co. Sligo	54 11	8 27 "	122	A. Marth, for Col. Cooper.	D. F. S.	
Minard, Co. Kerry	52 7	10 8 "	—	Coastguard	W.	
Nairn	57 36	3 52 "	84	Miss Penny	T.	35
Newcastle-on-Tyne	54 59	1 36 "	152	N. H. Martin	G. S.	46
Newarp Lightship	52 45	1 53 E.	—	Light-keepers	W.	
Newport, Monmouth	51 35	3 0 W.	—	F. W. Houghton	R.	
Newquay, Cornwall	50 25	5 4 "	250	J. Pearce	S.	46
Northallerton	50 25	5 5 "	—	Coastguard	W.	
North Foreland	51 23	1 27 E.	115	W. Stead	R.	
North-West Lightship, Liverpool.	53 31	3 31 W.	—	A. Cox and Jenkins	T.	48
# Norwood	51 26	0 6 "	220	Light-keepers	W.	
W. Marriott					E.	
S Ochtertyre	56 23	3 53 "	329	G. Croucher, for Sir P. K. Murray, Bt.	E. F.	
Omagh (Edenfel)	54 36	7 19 "	300	Col. Buchanan	F.	40
Oswaldkirk, Yorks.	54 12	1 3 "	—	R. Thompson	S.	46
Outer Dowsing Lightship	53 27	1 5 E.	—	Light-keepers	W.	
Owers Lightship	50 39	0 41 W.	—	W. Wickham, for the late E. J. Stone.	W.	
Oxford	51 46	1 16 "	208	T. S.	41, 62	
Parkstone, Dorset	50 43	1 56 "	197	R. H. Barnes	D.	49
Penbedw, Mold	53 12	3 11 "	650	H. W. Buddicom	C.	
Pennant Bay, Aberdour	57 40	2 16 "	—	Coastguard	W.	
S Pinmore, Girvan	55 12	4 49 "	187	P. Donald, for Capt. Hamilton.	E.	
Plymouth, The Hoe	50 22	4 8 "	116	H. Victor Prigg	D. F. S.	37
Freedom Fields	50 24	4 8 "	207	"	R.	
S Poltalloch	56 8	5 30 "	132	J. Russell, for Lord Malcolm.	E.	35
Portrush	55 13	6 40 "	—	Coastguard	W.	
Prawle Point	50 12	3 43 "	332	M. Holmes	T.	37
Prestwich	53 32	2 17 "	320	T. R. H. Clunn	D. F. S.	39
Rede Court, (Rochester)	51 24	0 29 E.	224	W. H. Tingey	D.	49
Roche's Point, Co. Cork	51 47	8 19 W.	42	W. Kennedy	T.	

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspector's Report for 1896 will be found.
Rochford, Tenbury	52° 18'	2° 36' W.	316	Rev. John Tomson - R. W. D. Cameron -	C. R. E.	42
S Rosewell	55 51	3 7 "	690	Sir J. B. Lawes and	F. S.	
Rothamsted	51 48	0 22 "	368	Sir J. H. Gilbert.		
S Rothesay	55 50	5 4 "	115	J. Kay -	E.	35
ffl Rounton, Yorkshire	54 24	1 18 "	249	Sir I. L. Bell, Bart.	E.	
ffl Rousdon, Devon	50 43	3 0 "	515	C. E. Peek -	E.	
Roxborough, Co. Limerick	52 35	8 36 "	111	A. W. Shaw -	R.	
Royal Sovereign Light- ship.	50 43	0 27 E.	-	Light-keepers -	W.	
Rugby	52 22	1 15 W.	379	E. Kitchener -	G.	42
St. Ann's Head, Pembroke	51 41	5 11 "	150	H. T. Knott -	T. S. W.	
St. Aubin's, Jersey	49 12	2 11 "	25	J. Fisher -	T.	38
St. David's, Pembrokeshire	51 53	5 16 "	215	W. P. Propert -	D.	
St. Helen's, Lancashire	53 28	2 45 "	151	J. Robertson -	G.	39
St. Heliers, Jersey	49 11	2 6 "	-	Signal Officer, Fort Regent.	S.	38
St. Leonards	50 51	0 33 E.	171	H. Colborne -	D. F. S.	49, 50
Salcombe, Devon	50 14	3 46 W.	-	Coastguard -	W.	
Sandgate, Kent	51 4	1 9 E.	56	A. Robert Bowles -	R.	51
ffl Scarborough	54 17	0 23 W.	159	E. W. Ellerbeck -	D. F.	
Schull	51 32	9 32 "	-	Coastguard -	W.	
Scilly Islands, St. Mary's	49 56	6 18 "	80	A. Hicks -	B.S.T.W.	44, 45
Seafield, Miltown Malbay Co. Clare.	52 48	9 30 "	-	Coastguard -	C. W.	
Seaham Harbour	54 50	1 19 "	143	G. H. Aird -	D.	46
Sedbergh	54 19	2 32 "	400	A. P. Burra -	R.	39
Seven Stones Lightship	50 4	6 5 "	-	Light-keepers -	W.	
Shambles Lightship	50 31	2 20 "	-	W.		
Sheffield	53 23	1 29 "	429	E. Howarth -	D.	47
Shields, North	55 0	1 27 "	97	J. W. Irvine -	T.	45
Shields, North, High Light- house.	55 0	1 27 "	-	Captain Harrison -	B.	56
Shipwash Lightship	52 2	1 38 E.	-	Light-keepers -	W.	
Shirley, near Birmingham	52 25	1 49 W.	460	B. Boothroyd -	F.	42
Skipton	53 58	2 9 "	567	W. Ecroyd -	G.	40
Solway Lightship	54 48	3 32 "	-	Light-keepers -	W.	
Southampton	50 55	1 24 "	78	J. T. Cook, for Dir. Gen. of Ordnance Survey.	D.F.S.	49, 50
Southport	53 39	2 59 "	-	J. Baxendell -	S.	39
South Rock Lightship	54 25	5 22 "	-	Light-keepers -	W.	
Spiddal, Co. Galway	53 15	9 17 "	-	Coastguard -	G.	
Spurn Head	53 34	0 7 E.	19	G. Freeman -	T.	45
Spurn Lightship	53 34	0 13 "	-	Light-keepers -	W.	
Stokesay, Craven Arms	52 26	2 62 W.	370	Miss M. A. Digges La Touche.	D.	
Stonyhurst College	53 51	2 28 "	375	Rev. W. Sidgreaves	A.D.F.	58
Stornoway	58 11	6 22 "	28	J. Mackenzie -	T.S.C.	
ffl Stowell, Sherborne, Dorset-	58 11	6 22 "	-	Coastguard -	W.	
Stranraer	50 57	2 31 "	376	Rev. H. J. Poole -	F.	
ffl Strathfield Turgiss, Hants	54 54	5 2 "	-	Coastguard -	G.	
Strathpeffer-Spa, N.B.	57 37	4 28 "	253	The late Rev. C. H. Griffith.	F.	
Sumburgh Head (Shet- lands)	59 51	1 17 "	126	J. Tregelles Fox -	D. S.	35
Sunderland	54 54	1 23 "	-	Rev. W. Braud -	T. C.	36
Symbister, Shetlands	60 14	1 25 "	-	Coastguard -	W.	
Syston, Leicester	52 43	1 5 "	178	J. S. Nicolson -	G.	
S. K. Daniels -				S. K. Daniels -	R.	43
ffl Tavistock	50 33	4 8 "	391	E. E. Glyde -	D.	
Tealby, Lincolnshire	53 24	0 16 "	251	Rev. S. Lewin -	D.	47
Teelin, Co. Donegal	54 38	8 39 "	-	Coastguard -	W.	
Tenby	51 41	4 42 "	79	W. T. Balmer -	S.	
Thurcaston, Leicester	52 42	1 10 "	253	Rev. T. A. Preston -	S.	43
Torquay	50 28	3 31 "	-	A. Chandler -	S.	
Totland Bay, Isle of Wight	50 41	1 33 "	84	J. Dover -	G.	
Union Hall, Co. Cork	51 33	9 8 "	-	Coastguard -	G.	
Uppingham	52 35	0 44 "	484	Rev. G. H. Mullins -	D.	
Uzon (Montrose)	56 40	2 28 "	-	Coastguard -	W.	
Valencia Observatory, Ca- hirciveen,	51 56	10 15 "	30	J. B. Cullum -	A. T. C.	60
Island, Glanleam	51 56	10 20 "	-	Miss E. Fitzgerald -	E.	
Knightstown	51 55	10 20 "	-	Coastguard -	G.	

Appendix XI.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspector's Report for 1896 will be found.
Wakefield	53° 41'	1° 30' W.	98	H. Clarke	E.	
Waterford	52° 66'	7° 7' "	—	Harbour Authorities	C.	
Watergate (Emsworth)	50° 56'	0° 55' "	—	R. Christy	S.	50
Westbourne, Sussex	50° 52'	0° 55' "	—	Rev. L. B. Birkett	S.	51
Westray, Orkney	59° 17'	3° 0' "	—	J. Hewison	G.	
Wick	58° 27'	3° 6' "	80	J. Sinclair	T.	36
Wolfeles	55° 23'	3° 6' "	—	Coastguard	W.	
Woolacombe	51° 10'	4° 12' "	59	W. Cockburn	D.	
Worksop	53° 18'	1° 8' "	—	E. Henshall	D.	
Yarmouth	52° 37'	1° 43' E.	10	H. Mellish	S.	47
Isle of Wight	50° 42'	1° 29' W.	—	G. T. Watson	B.T.C.	43, 56
Ynis-y-bro, Newport	51° 38'	3° 3' "	115	Coastguard	G.	
York, Bootham	53° 57'	1° 5' "	—	D. Morzan	R.	
" The Museum	53° 57'	1° 5' "	58	J. E. Clark	S.	46
				H. M. Platnauer	D. T.	45

In addition to those already mentioned, reports are received daily from the following Continental Stations.

Station.	Authority.	Station.	Authority.
Haparanda		†The Helder	
Hernösand		Brussels	
†Stockholm	Meteorological Office, Stockholm.	Cape Gris Nez	
Wisby		†Brest (St. Mathieu)	
Karlstad		Lorient (Ile de Groix)	
Bodö		*†Rochefort (Ile d'Aix)	Bureau Central Météorologique Paris.
†Christiansund	Meteorological Institute, Christiania.	†Biarritz	
*†Skudesnaes		Paris	
Færder		Belfort	
†The Scaw	Meteorological Institute, Copenhagen.	Lyons	
Fanø		Nice	
Cuxhaven	Deutsche Seewarte, Hamburg.	Perpignan	
		Berlin	
		Wiesbaden	Cent. Met. Inst. of Germany.
		Munich	
		Cornwall	
		*Lisbon	Observatory, Lisbon.
		Azores (P. Delgada)	

Note.—The stations marked with an asterisk (*) report also at 2h. p.m., and those with dagger (†) at 6h. p.m.; Lisbon reports at 4h. p.m. instead of 6h. p.m.

The Helder does not send reports at 6 p.m. on Sundays.

R E P O R T
OF THE
METEOROLOGICAL COUNCIL
For the Year ending 31st of March 1898,
TO THE
PRESIDENT AND COUNCIL
OF THE
ROYAL SOCIETY.

Presented to both Houses of Parliament by Command of Her Majesty.



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1898

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(REPORT OF METEOROLOGICAL COUNCIL.)

MAP SHOWING THE APPROXIMATE POSITIONS OF THE STATIONS FROM WHICH OBSERVATIONS ARE RECEIVED.



For details of Information Received. - See Appendix XI.

APPENDIX XI.

LIST of STATIONS in the BRITISH ISLANDS from which INFORMATION has been received at the METEOROLOGICAL OFFICE during the year ending March 31st, 1898.

The Stations marked "S" are in connexion with the Scottish Meteorological Society, and those marked "R" are in connexion with the Royal Meteorological Society. The returns from these Stations are received by the Office under an arrangement which will be found detailed in previous reports.

In certain cases where the actual station at which the Observations have been taken is not generally known, and could not be readily identified, the name of some village or town near has been inserted following the name of the station, within brackets.

The nature of the information received from each station is indicated by letters as follows:—

A. *Observatories*.—Continuous record of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form, and motion of the clouds, and notes on the weather.

B. *Anemographic Stations*.—Continuous record of the direction and velocity (or force) of the wind.

C. *Barographic Stations*.—Continuous record of pressure.

D. *Second Order Stations*.—Monthly sheets, containing the regular observations at 9 a.m. and 9 p.m. each day, local time, of pressure, temperature (dry bulb and wet bulb), wind, cloud, and weather, with the daily maxima and minima of temperature, the daily rainfall, and general remarks on the weather.

E. *Second Order Stations*.—Monthly means and summaries on Form B. of observations taken at 9 a.m. and 9 p.m., each day as above.

F. *Climatological Stations*.—The maximum and minimum temperature and the rainfall for each day, with remarks on the weather. This information is received in the Meteorological Office each week for use in the "Weekly Weather Report."

G. *Third Order Stations*.—Observations of the same kind as at Second Order Stations, but either:—

- (a) less full.
- (b) taken only once daily.
- (c) Taken at hours other than 9 a.m. and 9 p.m.

R. *Rainfall Stations*.—Monthly sheets containing the daily observations of the amount of rainfall, with remarks on the weather.

S. *Sunshine Stations*.—Continuous record of bright sunshine.

T. *Telegraphic Stations*.—Regular observations at 8 a.m. and 6 p.m. G.M.T. (and from some stations at 2 p.m. in addition), of pressure, temperature, wind and weather, with the daily maxima and minima of temperature, the daily rainfall, and where possible, the sea-disturbance at 8 a.m. each day and the daily amount of bright sunshine. This information is received at the Meteorological Office each day by telegraph, for use in the "Daily Weather Report" and, as required, for use in the "Weekly Weather Report."

W. *Sea-temperature*.—Daily observations of the temperature of the sea water.

Appendix XI.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspector's Report for 1897 will be found.
Aberdeen Observatory ..	57° 10'	2° 3' W.	46	Prof. C. Niven ..	A. T. C.	49, 65
Cove Bay ..	57° 9'	2° 5'	—	Coastguard ..	W.	—
Adare, Limerick ..	52° 33'	8° 46'	—	The Earl of Dunraven.	R.	—
Alnwick Castle ..	55° 25'	1° 43'	210	Humphry Willyams, for the Duke of Northumberland.	B. F.	69, 70
Ardrossan, Ayrshire ..	55° 38'	4° 50'	15	J. W. Mayes ..	T.	50
Arlington Court, Barnstaple ..	51° 8'	3° 58'	613	Lady Chichester ..	F.	—
Armagh Observatory ..	54° 21'	6° 39'	196	J. L. E. Dreyer ..	B.D.F.S.	63, 65
Arran, North, Galway ..	53° 6'	9° 40'	—	Coastguard ..	G. W.	—
Aspley Guise ..	52° 1'	0° 38'	410	E. E. Dymond ..	S.	—
Aysgarth Vicarage, Yorks. ..	54° 18'	1° 58'	616	Rev. F. W. Stow ..	D.	—
Bahama Bank Lightship ..	51° 20'	4° 13'	—	Light-keepers ..	W.	—
Ballantrae, Ayrshire ..	55° 6'	5° 0'	—	Coastguard ..	W.	—
Ballydonegan, Co. Cork ..	51° 38'	10° 3'	—	" ..	W.	—
Ballyglass, Co. Mayo ..	54° 17'	9° 52'	—	" ..	W.	—
Baltimore, Co. Cork ..	51° 28'	9° 22'	—	R. Brennan ..	G.	—
Bantry ..	51° 41'	9° 27'	—	Miss E. Tolan ..	R.	—
Belmullet, Co. Mayo ..	51° 13'	9° 59'	40	W.H. Divers, for the Duke of Rutland.	T.	45
Belvoir Castle, Grantham ..	52° 54'	0° 47'	259	W.H. Divers, for the Duke of Rutland.	D.	60
Ben Nevis ..	56° 48'	5° 0'	4,406	A. Rankin, for Di- rectors Ben Nevis Observatory.	S. E.	—
Bennington, Herts. ..	51° 54'	0° 5'	407	Rev. J. D. Parker ..	E.	—
Berkhamsted ..	51° 46'	0° 34'	400	E. Mawley ..	E.	—
Bidston Observatory, Liver- pool.	53° 24'	3° 4'	188	W. E. Plummer ..	D. T.	53
Birr Castle, Parsonstown ..	53° 6'	7° 55'	175	R. Jacob and T. Haines, for the Earl of Rosse.	D. S. T.	45
Blackpool ..	53° 48'	3° 3'	31	A. J. Anderson ..	F. S.	52
Blacksod Point, Co. Mayo ..	54° 6'	10° 4'	—	Coastguard ..	W.	—
Bolton, Chadwick Museum ..	53° 35'	2° 27'	389	W. W. Midgley ..	G.	—
Bournemouth ..	50° 43'	1° 53'	—	Messrs. Primavesi, for Town Council.	S.	—
Braemar ..	57° 0'	3° 24'	1,111	J. Aitken ..	D. F. S.	49
Bramley, Surrey ..	51° 11'	0° 33'	148	J. Bartlett ..	D.	53
Bray, Co. Wicklow ..	53° 12'	6° 6'	—	Coastguard ..	G.	—
Brighton ..	50° 49'	0° 8'	—	A. Newsholme ..	S.	—
Burnmouth, Ayton, Berwick ..	55° 51'	2° 4'	—	Coastguard ..	W.	—
Burntisland ..	56° 4'	3° 14'	—	—	W.	—
Buxton ..	53° 14'	1° 54'	987	E. A. Dent ..	E.	—
Caernarvon Bay Lightship ..	53° 6'	4° 45'	—	Light-keepers ..	W.	—
Cambridge ..	52° 13'	0° 6' E.	88	Miss A. Walker ..	T. S.	—
Campden, Glos. ..	53° 5'	1° 46' W.	524	Capt. W. Wright, R.A.	R.	57
Cardigan Bay Lightship ..	52° 25'	5° 1'	—	Light-keepers ..	W.	—
Cargin ..	55° 2'	3° 37'	72	A. Peacock ..	E.	—
Carrigallen, Co. Leitrim ..	53° 58'	7° 38'	7,350	Mrs. J. Gedley and Miss Morrow.	R.	—
Castletownshend, Co. Cork ..	51° 32'	9° 11'	—	Coastguard ..	G.	—
Chatham ..	51° 23'	0° 32' E.	136	The Instructor in Surveying.	G.	51
Cheadle ..	52° 58'	1° 57' W.	646	J. C. Philips ..	E. F.	—
Cheltenham ..	51° 54'	2° 3'	184	R. Tyer ..	E.	—
Chester ..	53° 12'	2° 54'	59	Rev. J. Cairns Mit- chell.	D.	53
Churchill, Oxon ..	51° 56'	1° 34'	509	Giles Edmonds ..	R.	—
Churchstoke ..	52° 31'	3° 5'	538	P. Wright ..	D. F. S.	—
Cirencester ..	51° 43'	1° 57'	448	Prof. Ohm ..	F. S.	56, 57
Cleggan, Co. Galway ..	53° 33'	10° 8'	—	Coastguard ..	W.	—
Clifton ..	51° 27'	2° 37'	230	D. Rintoul ..	F.	56
Colly Weston ..	52° 37'	0° 31'	280	Miss A. Tasker ..	R.	—
Colwyn Bay ..	55° 17'	3° 43'	—	R. E. Lord ..	S.	52
Coningbeg Lightship ..	52° 2'	6° 40'	—	Light-keepers ..	W.	—
Cooper's Hill, Egham ..	51° 26'	0° 31'	279	Prof. H. McLeod ..	G.	—
Cromarty ..	57° 41'	4° 0'	—	Coastguard ..	W.	—
Cronkbourne (Douglas) ..	54° 10'	4° 29'	137	A. W. Moore ..	D. F. S.	—
Crookhaven ..	51° 28'	9° 43'	—	Coastguard ..	G.	—
Crosshaven ..	51° 48'	8° 18'	—	—	G.	—
Cuckfield, Sussex ..	51° 1'	0° 9'	389	John Howe ..	R.	—
Cullen ..	57° 41'	2° 49'	18	R. A. J. Glover ..	D.	51
Cullompton ..	50° 51'	3° 23'	202	T. Turner ..	F. S.	—
Currygrane (Edgeworths- town), Co. Longford ..	53° 45'	7° 39'	267	J. M. Wilson ..	D. F.	—

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Information supplied.	Page where Inspector's Report for 1897 will be found.
Deerness, Orkney Islands..	58 56	2 45 W.	169	M. Spence ..	B. D. S.	66
Dissert (Llandrindod) ..	52 13	3 24 "	711	Rev. J. Le Herbert ..	R.	-
Dolmelynlyn (Dolgelly) ..	52 47	3 53 "	-	W. Simmonds, for C. R. Williams.	R.	-
Donaghadee	54 38	5 32 "	26	T. MacGowan ..	T.	44
Doneraile, Co. Cork.. ..	52 13	8 34 E.	266	Captain Evans ..	R.	-
Dover, Waterworks.. ..	51 7	1 18 E.	198	H. E. Stilgoe ..	R.	-
Dublin, Botanic Gardens ..	53 23	6 16 W.	67	F. W. Moore ..	D.	45
" City	53 20	6 15 "	47	J. W. Moore ..	D. F.	-
" Mountjoy Obs., Phoenix Park.	53 22	6 21 "	155	Maj. R. C. Hellard, R.E.	B. D. S.	62, 65
Duddington	52 36	0 32 "	152	Fred Coventry ..	F.	-
S Dundee	56 28	2 56 "	160	J. Carnochan ..	D. S.	49
Dungeness	50 55	0 59 E.	26	W. Batten ..	T.	51
S Dunrobin Castle	57 59	3 56 W.	12	D. Melville, for the Duke of Sutherland.	D.	49
Durham	54 46	1 35 "	336	H. J. Carpenter ..	D. F. S.	-
Dursley (Farnley), Glos. ..	51 41	2 21 "	250	R. W. Pinney ..	R.	-
Eastbourne	50 46	0 17 E.	33	R. Sheward ..	D. S.	51
East Goodwin Lightship ..	51 13	1 36 "	-	Light-keepers ..	W.	-
East Dereham	52 41	0 57 "	158	G. H. Cooper ..	R.	-
Edgbaston (Birmingham) ..	52 28	1 56 W.	534	Alf. Cresswell ..	D.	55
Edinburgh	56 57	3 12 "	253	R. C. Mossman ..	D. S.	48
English and Welsh Grounds ..	51 27	3 0 "	-	Light-keepers ..	W.	-
Lighthship.						
Ennis, Co. Clare	52 51	8 59 "	38	Miss A. L. Scott ..	R.	-
Epsom, R. Med. College ..	51 20	0 14 "	271	H. E. Gardner ..	D.	51
Falmouth	50 9	5 4 "	187	E. Kitto ..	A. F.	62, 65
Fleetwood	53 56	3 1 "	-	M. S. Gaultier ..	B.	63
S Forgandenny, Perth	56 21	3 20 "	175	C. L. Wood ..	C.	-
Fort Augustus	57 8	4 40 "	68	Rev. M. Wall ..	E. F. S.	-
Fort William	56 48	5 6 "	31	A. Rankin, for Directors, Ben Nevis Observatory.	A. F.	67
Foynes, Co. Limerick	52 37	9 7 E.	108	Lord Montagle ..	F.	-
Fredville (Dover)	51 7	1 18 E.	173	H. W. Plumpire ..	R.	-
Fulbeck, Lincolnshire	53 3	0 37 W.	185	Rev. Vere F. Willson ..	C. D.	60
Geldeston (Beccles)	52 28	1 31 E.	37	E. T. Dowson ..	D. F. S.	-
Gilcrux (Maryport)	54 44	3 23 W.	261	J. Monkhouse ..	D. F. S.	53
Glasgow	55 53	4 18 "	180	Prof. L. Becker ..	A. D. F.	50, 68
S Glenarvon	57 30	5 14 "	489	D. D. Munro ..	E. F.	48
S Glenlee	55 5	4 12 "	203	W. Melville ..	E. F.	-
S Gordon Castle	57 37	3 5 "	101	C. Webster, for the Duke of Richmond and Gordon, K.G.	E.	49
Gorleston (Suffolk)	52 35	1 43 E.	-	R. J. C. Day ..	G.	-
Guernsey (St. Peter's) ..	49 33	2 32 W.	-	F. E. Carey ..	S.	56
Harpenden, Herts.	51 49	0 20 "	419	T. Wilson ..	G.	-
Haslar Hospital, Hants. ..	50 47	1 7 "	-	R. Harring ..	G.	-
Hawes Junction	54 19	2 18 "	1135	W. H. Bunge ..	G.	53
Hesley Hall (Bawtry)	53 26	1 2 "	65	B. L. Whitaker ..	F.	60
At Hereford	52 5	2 45 "	274	T. A. Chapman ..	F.	-
Heysham Hall, Lancashire ..	54 3	2 54 "	95	S. Lomas, for Miss L. Gralton.	D.	53
At Hillington	52 48	0 33 E.	88	Rev. H. E. B. Folkes ..	D. F. S.	-
Hollesley Bay	52 3	1 27 "	38	Prof. C. G. F. Thon- ger.	D. S.	50
Holyhead, Harbour Office ..	53 18	4 39 W.	57	F. M. Cotton ..	B. W.	72
Sailors' Home	53 18	4 39 "	48	T. Chope ..	T.	53
Hurdlestown, Broadford, Co. Clare.	52 48	8 38 "	157	Lieut.-Col. W. O. Bentley, R.A.	R.	-
Hurst Castle	50 42	1 33 "	12	E. T. Tremble ..	T.	56
Kearsney Abbey, Dover ..	51 8	1 17 E.	7100	C. W. Curtis ..	R.	-
Ketton, Stamford	52 38	0 32 W.	-	G. Drabble ..	R.	-
Kew Observatory	51 28	0 19 "	18	C. Chree ..	A.	-
Kilredane, Co. Clare	52 35	9 47 "	-	Coastguard ..	W.	-
Kilkenny	52 39	7 14 "	212	H. Carlton, for the Marquis of Or- monde.	C. F.	45

Appendix XI.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspector's Report for 1897 will be found.
St Killarney	52 4	9 30 W.	86	Ven. Archdeacon Wynne.	G. F.	—
Killiney (Cloneevin), Co. Dublin.	53 16	6 7 "	249	R. O'Brien Furlong	R.	—
Kirkwall	58 59	2 57 "	—	Coastguard ..	W.	—
Kish Bank Lightship ..	53 19	5 55 "	—	Light-keepers ..	W.	—
Ladylaw (Hawick)	55 28	2 47 "	447	T. Wilson ..	D.	—
Lahinch	52 55	9 21 "	52	Miss J. Bowes ..	R.	—
S Lairg	58 1	4 22 "	335	Rev. D. Macrae ..	E. F.	49
Lamlash, Isle of Arran, Scotland.	55 32	6 8 "	—	Coastguard ..	W.	—
Laudale, Argyleshire ..	56 41	5 41 "	14	A. Fletcher, for T. H. G. Newton.	D. F.	—
S Lednathie	56 45	3 7 "	719	W. Morrison, for J. Stormont Darling.	E.	49
Leith	55 58	3 10 E.	20	T. Richardson ..	T.	49
Leman and Ower Lightship ..	53 8	2 2 E.	—	Light-keepers ..	W.	—
Lerwick	60 9	1 8 W.	—	Coastguard ..	W.	—
Limerick	52 39	8 36 "	—	A. W. Shaw ..	R.	—
S Liscannor, Co. Clare ..	52 56	9 23 "	—	Coastguard ..	W.	—
S Lissan, Co. Tyrone ..	54 41	6 45 "	300	Sir N. Staples, Bt. ..	E.	44
Llandinam, Montgomery ..	52 29	3 26 "	500	John Owens ..	R.	—
Llandovery	51 59	3 48 "	217	J. Watkins ..	F.	45
St Llandudno	53 21	3 50 "	88	J. Nicol ..	E. F.	52
London, Brixton	51 29	0 7 "	77	Wm. Little ..	S.	—
City	51 32	0 5 "	80	F. Gaster ..	T.	—
" Pall Mall	51 32	0 8 "	—	Messrs. de la Rue ..	S.	—
" Westminster	51 31	0 8 "	76	Athenæum Club ..	C.	—
" Westminster Training College.	51 31	0 8 "	—	The Staff of the Met. Office.	C. G.	—
Londonderry	55 0	7 19 "	67	H. A. Reatchlous ..	S.	—
Loughborough	52 47	1 12 "	169	J. Couroy ..	D. F.	44
Lowestoft	52 29	1 44 E.	—	W. Berridge ..	T.	—
St Lowestoft	52 29	1 44 "	85	J. Moore ..	G.	—
S Malin Head, Co. Donegal ..	55 23	7 24 W.	230	S. H. Miller ..	E.	—
Manchester	53 29	2 13 "	180	J. Williams ..	T. C.	44
S Marchmont	55 44	2 25 "	428	J. Niven ..	D.	53
St Margate	51 24	1 24 E.	83	J. A. Wood ..	E. F. S.	—
Market Rasen	53 23	0 20 W.	83	J. Stokes ..	S.	—
Markree Castle, Co. Sligo ..	54 11	8 27 "	122	W. B. Jevons ..	R.	61
Minard, Co. Kerry	52 7	10 8 "	—	Miss E. Reynolds, for Col. Cooper.	D. F. S.	44
Morpeth	55 13	1 41 "	324	Coastguard ..	W.	—
Mount Callan (Inagh), Co. Clare.	52 53	9 16 "	479	G. P. Berry ..	D. S.	50
Lt.-Col. Tottenham				Lt.-Col. Tottenham ..	R.	—
Nairn	57 36	3 52 "	84	Miss Penny ..	T.	49
Newcastle, Co. Wicklow ..	53 5	6 6 "	256	B. H. Steede ..	D.	45
Newcastle-on-Tyne	54 59	1 36 "	152	N. H. Martin ..	G. S.	59
Newarp Lightship	52 45	1 53 E.	—	Light-keepers ..	W.	—
Newport, Monmouth	51 35	3 0 W.	—	C. Cullum ..	R.	—
Newquay, Cornwall	50 25	5 4 "	?250	J. Pearce ..	S.	—
"	50 25	5 5 "	—	Coastguard ..	W.	—
Northallerton	54 20	1 26 "	129	W. Stead ..	R.	—
North Foreland	51 23	1 27 E.	115	S. Jenkins ..	T.	50
North-West Lightship, Liverpool.	53 31	3 31 W.	—	Light-keepers ..	W.	—
St Norwood	51 26	0 6 "	220	W. Marriott ..	E.	—
S Ochtertyre	56 23	3 53 "	329	G. Croucher, for Sir P. K. Murray, Bt.	E. F.	48
Omagh (Edenfel)	54 36	7 19 "	300	Col. Buchanan ..	F.	—
Oswaldkirk, Yorkshire	54 12	1 3 "	—	R. Thompson ..	S.	—
Outer Dowsing Lightship	53 27	1 5 E.	—	Light-keepers ..	W.	—
Owers Lightship	50 39	0 41 W.	—	" ..	T. S.	71
Oxford	51 46	1 16 "	208	W. Wickham ..	D.	—
Parkstone, Dorset	50 43	1 56 "	197	R. H. Barnes ..	C.	—
Penbedw, Mold	53 12	3 11 "	650	H. W. Buddicom ..	W.	—
Pennant Bay, Aberdour	57 40	2 16 "	—	Coastguard ..	—	—

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspector's Report for 1897 will be found.
S Pinmore, Girvan	55 12	4 49 W.	187	P. Donald, for Capt. Hamilton.	E.	50
Plumstead	51 29	0 6 E.	—	J. G. Waller ..	S.	—
Plymouth, The Hoe	50 22	4 8 W.	116	H. Victor Prigg ..	D. F. S.	55, 56, 57
Freedom Fields	50 24	4 8 "	207	"	R.	57
S Poltalloch	56 8	5 30 "	132	J. Russell, for Lord Malcolm.	E.	—
Portrush	55 13	6 40 "	—	Coastguard ..	W.	—
Port Talbot	51 34	3 45 "	—	J. Hollingworth, for Miss Talbot.	S.	—
Prawle Point	50 12	3 43 "	332	M. Howse ..	T.	55
Prestwich (Manchester) ..	53 32	2 17 "	320	T. R. H. Clunn ..	D. F. S.	53
Rede Court (Rochester) ..	51 24	0 29 E.	224	W. H. Tingey ..	D.	51
Roche's Point, Co. Cork ..	51 47	8 19 W.	42	W. Kennedy ..	T.	45
Rochford, Tenbury	52 18	2 36 "	316	Rev. John Tomson ..	C. R.	—
S Rosewell	55 51	3 7 "	690	R. W. D. Cameron ..	E.	—
Rothamsted	51 48	0 22 "	368	Sir J. B. Lawes and Sir J. H. Gilbert.	F. S.	—
S Rothesay	55 50	5 4 "	115	J. Kay ..	E.	—
M Rounton, Yorkshire ..	54 24	1 18 "	249	Sir I. L. Bell, Bart. ..	E.	—
M Rousdon, Devon	50 43	3 0 "	515	C. E. Peek ..	E.	—
Roxborough, Co. Limerick ..	52 35	8 36 "	111	A. W. Shaw ..	R.	—
Royal Sovereign Lightship ..	50 43	0 27 E.	—	Light-keepers ..	W.	—
Rugby	52 22	1 15 W.	379	E. Kitchener ..	G.	55
St. Ann's Head, Pembroke ..	51 41	5 11 "	150	H. T. Knott ..	T. S. W.	45
St. Aubin's, Jersey	49 12	2 11 "	25	J. Fisher ..	T.	55
St. David's, Pembrokeshire ..	51 53	5 16 "	215	W. P. Propert ..	D.	—
St. Helen's, Lancashire ..	53 28	2 45 "	151	F. Drew Harris ..	G.	53
St. Helier's, Jersey	49 11	2 6 "	—	Signal Officer, Fort Regent.	S.	56
St. Leonard's	50 51	0 33 E.	171	H. Colborne ..	D. F. S.	51
(West Marina)	50 51	0 32 "	—	T. Eldridge ..	G.	—
Salcombe, Devon	50 14	3 46 W.	—	Coastguard ..	W.	—
Sandgate, Kent	51 4	1 9 E.	56	A. Robert Bowles ..	R.	—
M Scarborough	54 17	0 23 W.	159	E. W. Ellerbeck ..	D. F. S.	—
"	54 17	0 23 "	—	Coastguard ..	W.	—
Schull	51 32	9 32 "	—	A. Hicks ..	B. S. T. W.	61, 64
Scilly Islands, St. Mary's ..	49 56	6 18 "	80	Coastguard ..	C.	—
Seafield, Miltown Malbay, Co. Clare.	52 48	9 30 "	—	Coastguard ..	W.	—
Seaham Harbour	54 50	1 19 "	148	G. H. Aird ..	D.	—
Sedbergh	54 19	3 32 "	400	Miss Burra ..	R.	—
Seven Stones Lightship ..	50 4	6 5 "	—	Light-keepers ..	W.	—
M Shaftesbury	51 1	2 12 "	—	Miss L. Waud ..	F.	—
Shambles Lightship	50 31	2 20 "	—	Light-keepers ..	W.	—
Sheffield	53 23	1 29 "	429	E. Howarth ..	D. S.	—
Sheephaven (Dunfanaghy) ..	55 11	7 58 "	—	Coastguard ..	W.	—
Shields, North	55 0	1 27 "	97	W. B. Clark ..	T.	70
Shields, North, High Light-house.	55 0	1 27 "	—	Captain Harrison ..	B.	60
Shipwash Lightship	52 2	1 38 E.	—	Light-keepers ..	W.	—
Shirley, near Birmingham ..	52 25	1 49 W.	460	B. Boothroyd ..	F.	57
Skipton	53 58	2 9 "	567	W. Ecroyd ..	G.	53
Solway Lightship	54 48	3 32 "	—	Light-keepers ..	W.	—
Southampton	50 55	1 24 "	78	J. T. Cook, for Dir. Gen. of Ordnance Survey.	D. F. S.	56
Southport	53 39	2 59 "	—	J. Baxendell ..	S.	52
South Rock Lightship	54 25	5 22 "	—	Light-keepers ..	W.	—
Spidall, Co. Galway	53 15	9 17 "	—	Coastguard ..	G.	—
Spurn Head	53 34	0 7 E.	19	G. Freeman ..	T.	59
Spurn Lightship	53 34	0 13 "	—	Light-keepers ..	W.	—
Stokesay, Craven Arms	52 26	2 52 W.	370	Miss M. A. Digges ..	D.	—
"	52 26	2 52 W.	—	La Touche.	—	—
Stonyhurst College	53 51	2 28 "	375	Rev. W. Sidgreaves ..	A. D. F.	64, 65
Stornoway	58 11	6 22 "	28	J. Mackenzie ..	T. S. C.	48
"	58 11	6 22 "	—	Coastguard ..	W.	—
Stranraer	54 54	5 2 "	—	" ..	G.	—
Strathpeffer-Spa, N.B.	57 37	4 28 "	253	J. Trézelles Fox ..	D. S.	—
Sumburgh Head (Shetlands).	59 51	1 17 "	126	Rev. W. Brand ..	T. C.	—
Sunderland	54 54	1 23 "	—	Coastguard ..	W.	—
Symbister, Shetlands	60 14	1 25 "	—	J. S. Nicolson ..	G.	—
Syston, Leicester	52 43	1 5 "	178	S. K. Daniels ..	R.	—

Appendix XI.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspector's Report for 1897 will be found.
* Tavistock	50 53	4 8 W.	391	E. E. Glyde ..	D.	—
Tealby, Lincolnshire	53 24	0 18 "	251	Rev. S. Lewin ..	D.	60
Teelin, Co. Donegal	54 38	8 39 "	—	Coastguard ..	W.	—
Tenby	51 41	4 43 "	79	W. T. Balmer ..	D. S.	46
Thurcaston, Leicester	52 42	1 10 "	253	Rev. T. A. Preston ..	S.	—
Torquay	50 28	3 31 "	—	A. Chandler ..	S.	—
Totland Bay, Isle of Wight	50 41	1 33 "	84	J. Dover ..	G.	57
Union Hall, Co. Cork	51 33	9 8 "	—	Coastguard ..	G.	—
Uppingham	52 35	0 44 "	484	Rev. G. H. Mullins ..	D.	—
Uzon (Montrose)	56 40	2 28 "	—	Coastguard ..	W.	—
Valencia Observatory, Ca- hirciveen	51 56	10 15 "	30	J. E. Cullum ..	A. T. C.	45, 63
" Island, Glanleam	51 56	10 20 "	—	Miss E. FitzGerald ..	R.	—
" Knightstown	51 55	10 20 "	—	Coastguard ..	G.	—
Ventnor	50 36	1 13 "	80	Miss M. Gibson ..	S.	56
* Wakefield	53 41	1 30 "	96	H. Clarke ..	E.	—
Waterford	52 16	7 7 "	—	Harbour Authorities ..	C.	—
Watergate (Emsworth)	50 56	0 55 "	—	R. Christy ..	S.	—
Wealdstone	51 37	0 20 "	179	G. E. Eland ..	R.	—
Westbourne, Sussex	50 52	0 55 "	—	Rev. L. B. Birkett ..	S.	—
Westray, Orkney	59 17	3 0 "	—	J. Hewison ..	G.	—
Wick	58 27	3 6 "	80	J. Sinclair ..	T.	49
"	58 27	3 6 "	—	Coastguard ..	W.	—
* Wolflee	55 23	2 39 "	587	W. Cockburn ..	D.	—
* Woolacombe	51 10	4 12 "	59	E. Henshall ..	D.	—
Worksop	53 18	1 8 "	—	H. Mellish ..	S.	—
Yarmouth	52 37	1 43 E.	10	G. T. Watson ..	B. T. C.	69, 71
Isle of Wight	50 42	1 29 W.	—	Coastguard ..	G.	—
Ynis-y-bro. Newport	51 38	3 3 "	115	C. Cullum ..	R.	—
York, Bootham	53 57	1 5 "	—	E. B. Collimon ..	S.	—
" The Museum	53 57	1 5 "	56	H. M. Platnauer ..	D. T.	59, 60

In addition to those already mentioned, reports are received daily from the following Continental Stations.

Station.	Authority.	Station.	Authority.
Haparanda	{ Meteorological	†The Helder	{
Hernösand	Office, Stock- holm.	Brussels	
*Stockholm		Cape Gris Nez	
Wisby		†Brest (St. Mathieu)	
Karlstad		Lorient (Île de Groix)	
Bodö	{ Meteorological	†Rochefort (Île d'Aix)	
*Christiansund	Institute,	Biarritz	Bureau Centra Météorologique
*Åkudesnaes	Christiania.	Paris	Paris.
Færder		Belfort	
		Lyons	
*The Seaw	{ Meteorological	Nice	
Fahö	Institute,	Perpignan	
Cuxhaven	Copenhagen.	Berlin	Cent. Met. Inst.
	Deutsche See- warte, Ham- burg.	Wiesbaden	of Germany.
		Munich	
		Corunna	Observatory,
		†Lisbon	Lisbon.
		Azores (P. Delgada)	

Note.—The stations marked with an asterisk (*) report also at 2h. p.m., and those with dagger (†) at 6h. p.m.; Lisbon reports at 4h. p.m. instead of 6h. p.m.
The Helder does not send reports at 6 p.m. on Sundays.

R E P O R T
OF THE
METEOROLOGICAL COUNCIL,
For the Year ending 31st of March, 1899,
TO THE
PRESIDENT AND COUNCIL
OF THE
ROYAL SOCIETY.

Presented to both Houses of Parliament by Command of Her Majesty.



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(REPORT OF METEOROLOGICAL COUNCIL 1898-9)

MAP SHOWING THE APPROXIMATE POSITIONS OF THE STATIONS FROM WHICH OBSERVATIONS ARE RECEIVED.



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For details of Information Received. — See Appendix.

APPENDIX XI.

LIST OF STATIONS in the BRITISH ISLANDS from which INFORMATION has been received at the METEOROLOGICAL OFFICE during the year ending March 31st, 1899.

The Stations marked "S" are in connexion with the Scottish Meteorological Society, and those marked "M" are in connexion with the Royal Meteorological Society. The returns from these Stations are received by the Office under an arrangement which will be found detailed in previous reports.

In certain cases where the actual station at which the Observations have been taken is not generally known, and could not be readily identified, the name of some village or town near has been inserted following the name of the station, within brackets.

The nature of the information received from each station is indicated by letters as follows:—

A. *Observatories*.—Continuous record of pressure, temperature, wind, sunshine and rain, with eye observations of the amount, form, and motion of the clouds, and notes on the weather.

B. *Anemographic Stations*.—Continuous record of the direction and velocity (or force) of the wind.

C. *Barographic Stations*.—Continuous record of pressure.

D. *Second Order Stations*.—Monthly sheets, containing the regular observations at 9 a.m. and 9 p.m. each day, local time, of pressure, temperature (dry bulb and wet bulb), wind, cloud, and weather, with the daily maxima and minima of temperature, the daily rainfall, and general remarks on the weather.

E. *Second Order Stations*.—Monthly means and summaries on Form B. of observations taken at 9 a.m. and 9 p.m., each day as above.

F. *Climatological Stations*.—The maximum and minimum temperature and the rainfall for each day, with remarks on the weather. This information is received in the Meteorological Office each week for use in the "Weekly Weather Report."

G. *Third Order Stations*.—Observations of the same kind as at Second Order Stations, but either:—

- (a) less full.
- (b) taken only once daily.
- (c) Taken at hours other than 9 a.m. and 9 p.m.

R. *Rainfall Stations*.—Monthly sheets containing the daily observations of the amount of rainfall, with remarks on the weather.

S. *Sunshine Stations*.—Continuous record of bright sunshine.

T. *Telegraphic Stations*.—Regular observations at 8 a.m. and 6 p.m. G.M.T. (and from some stations at 2 p.m. in addition), of pressure, temperature, wind and weather, with the daily maxima and minima of temperature, the daily rainfall, and where possible, the sea-disturbance at 8 a.m. each day and the daily amount of bright sunshine. This information is received at the Meteorological Office each day by telegraph, for use in the "Daily Weather Report" and, as required, for use in the "Weekly Weather Report."

W. *Sea-temperature*.—Daily observations of the temperature of the sea water.

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Information supplied.	Page where Inspector's Report for 1898 will be found.
Aberdeen Observatory ..	57° 10'	2° 6' W.	46	Prof. C. Niven ..	A. T. C	56, 67
Cove Bay ..	57° 9'	2° 5' "	—	Coastguard ..	W.	—
Aberdovey ..	52° 33'	4° 4' "	—	John Edwards ..	S.	—
Alnwick Castle ..	55° 25'	1° 43' "	210	Humphry Willyams for the Duke of Northumberland.	B. F.	68, 69
Ardrossan, Ayrshire ..	55° 38'	4° 50' "	15	J. W. Mayes ..	T.	54
Arlington Court, Barnstaple ..	51° 8'	3° 58' "	613	Lady Chichester ..	F.	—
Armagh Observatory ..	54° 21'	6° 39' "	196	J. L. E. Dreyer ..	B.D.F.S.	70, 73
Arran, North, Galway ..	53° 6'	9° 40' "	—	Coastguard ..	G. W.	—
Aspley Guise, Beds. ..	52° 1'	0° 38' "	410	E. E. Dymond ..	S.	—
Aysgarth Vicarage, Yorks. ..	54° 18'	1° 58' "	646	Rev. F. W. Stow ..	D.	—
Bahama Bank Lightship ..	54° 20'	4° 13' "	—	Light-keepers ..	W.	—
Ballantrae, Ayrshire ..	55° 6'	5° 0' "	—	Coastguard ..	W.	—
Ballydonegan, Co. Cork ..	51° 38'	10° 3' "	—	" ..	G. W.	—
Ballyglass, Co. Mayo ..	54° 17'	9° 52' "	—	" ..	W.	—
Baltimore, Co. Cork ..	51° 28'	9° 22' "	—	" ..	G.	—
Bantry ..	51° 41'	9° 27' "	—	R. Brennan ..	R.	—
Belmullet, Co. Mayo ..	54° 13'	9° 59' "	40	Miss E. Tolan ..	T.	50
Belvoir Castle (Grantham) ..	52° 54'	0° 47' "	259	W.H. Divers for the Duke of Rutland.	D.	60
Ben Nevis ..	56° 48'	5° 0' "	4,405	A. Rankin, for Di- rectors Ben Nevis Observatory.	A. E. S.	—
Bennington, Herts. ..	51° 54'	0° 5' "	407	Rev. J. D. Parker ..	E.	—
Berkhamsted ..	51° 46'	0° 34' "	400	E. Mawley ..	E.	—
Bidston Observatory (Liver- pool). ..	53° 24'	3° 4' "	188	W. E. Plummer ..	D. T.	—
Birr Castle (Parsonstown) ..	53° 6'	7° 55' "	175	J. Spooner and T. Colvin, for the Earl of Rosse.	D. S. T.	51
Blackpool ..	53° 48'	3° 3' "	31	A. J. Anderson ..	F. S.	—
Blacksod Point, Co. Mayo ..	54° 6'	10° 4' "	—	Coastguard ..	W.	—
Bognor ..	50° 47'	0° 40' "	—	H. C. E. Morris ..	S.	—
Bolton ..	53° 35'	2° 27' "	389	W. W. Midgley ..	G.	—
Bournemouth ..	50° 43'	1° 53' "	—	Messrs. Primavesi, for Town Council.	S.	59
Braemar ..	57° 0'	3° 24' "	1,111	J. Aitken ..	D. F. S.	—
Bramley, Surrey ..	51° 11'	0° 33' "	148	J. Bartlett ..	D.	58
Bray, Co. Wicklow ..	53° 12'	6° 6' "	—	Coastguard ..	G.	—
Brighton ..	50° 49'	0° 8' "	—	A. Newholme ..	S.	—
Burford, Oxon ..	51° 48'	1° 38' "	420	M. Jacobs ..	R.	—
Burnmouth (Ayton, Berwick) ..	55° 51'	2° 4' "	—	Coastguard ..	W.	—
Burntisland ..	56° 4'	3° 14' "	—	H. Harrison ..	W.	—
Buxton ..	53° 14'	1° 54' "	987	H. Harrison and H. L. Aphorpe.	E.	—
Caernarvon Bay Lightship ..	53° 6'	4° 45' "	—	Light-keepers ..	W.	—
Cambridge ..	52° 13'	0° 6' E.	88	Miss A. Walker ..	T. S.	60, 61
Campden, Glos. ..	52° 5'	1° 46' W.	524	Capt. W. Wright, R.A.	R.	—
Cardigan Bay Lightship ..	52° 25'	5° 1' "	—	Light-keepers ..	W.	—
Cargin ..	55° 2'	3° 37' "	72	A. Peacock ..	E.	—
Carrigallen, Co. Leitrim ..	53° 58'	7° 38' "	7350	Mrs. J. Godley and Miss Morrow.	R.	—
Castletown, Bere ..	51° 39'	9° 54' "	—	Coastguard ..	G.	—
Castletownshend, Co. Cork ..	51° 32'	9° 11' "	—	Coastguard ..	G.	—
Chatham ..	51° 23'	0° 32' E.	136	The Instructor in Surveying.	G.	—
Cheadle ..	52° 58'	1° 57' W.	646	J. C. Philips ..	E. F.	—
Cheltenham ..	51° 54'	2° 3' "	184	R. Tyrer ..	E.	—
Chester ..	53° 12'	2° 54' "	59	Rev. J. Cairns Mit- chell.	D.	—
Churchill, Oxon ..	51° 56'	1° 34' "	509	Giles Edmonds ..	R.	—
Churchstoke ..	52° 31'	3° 5' "	538	P. Wright ..	D. F. S.	—
Cirencester ..	51° 43'	1° 57' "	446	Prof. Ohm ..	F. S.	—
Cleggan, Co. Galway ..	53° 33'	10° 8' "	—	Coastguard ..	W.	—
Clifton ..	51° 27'	2° 37' "	230	D. Rintoul ..	F.	—
Colly Weston ..	52° 37'	0° 31' "	280	Miss A. Tasker ..	R.	62
Colwyn Bay ..	53° 17'	3° 43' "	—	R. E. Lord ..	S.	—
Coningbeg Lightship ..	52° 2'	6° 40' "	—	Light-keepers ..	W.	—
Cooper's Hill (Egham) ..	51° 26'	0° 34' "	279	Prof. H. McLeod ..	G.	58
Cranleigh ..	51° 8'	0° 29' "	—	Rev. G. C. Allen ..	F.	—
Cromarty ..	57° 41'	4° 0' "	—	Coastguard ..	W.	—
Cronkbourne (Douglas) ..	54° 10'	4° 29' "	137	A. W. Moore ..	D. F. S.	—
Crookhaven ..	51° 28'	9° 13' "	—	Coastguard ..	G.	—
Crosshaven ..	51° 48'	8° 18' "	—	John Howe ..	G.	—
Cuckfield, Sussex ..	51° 1'	0° 9' "	389	John Howe ..	R.	—

Appendix XI.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer	Nature of Information supplied.	Page where Inspector's Report for 1898 will be found.
Cullen	57° 41'	2° 49' W.	18	R. A. J. Glover ..	D.	55
¶ Cullompton	50 51	3 23 "	202	T. Turner ..	F. S.	—
Currygrane (Edgeworths-town), Co. Longford.	53 45	7 39 "	267	J. M. Wilson ..	D. F.	—
Darwen, Lancashire ..	53 41	2 28 W.	710	G. Mainland ..	S.	64
Deerness, Orkney Islands ..	58 56	2 45 W.	160	M. Spence ..	B. D. S.	54, 67
Dissert (Llandrindod) ..	52 13	3 24 "	711	Rev. J. Le Herbert ..	R.	—
Dolmelynlyn (Dolgelly) ..	52 47	3 53 "	—	W. Simmonds, for C. R. Williams.	R.	—
Donaghadee	54 38	5 32 "	26	T. MacGowan ..	T.	50
Doneraile, Co. Cork ..	52 13	8 34 "	266	Captain Evans ..	R.	—
Dover	51 7	1 18 E.	198	H. E. Stilgoe ..	R.	—
Dublin, Botanic Gardens ..	53 23	6 16 W.	67	F. W. Moore ..	D.	50
" City	53 20	6 15 "	47	J. W. Moore ..	D. F.	50
Phoenix Park ..	53 22	6 21 "	155	Col. Hellard, R.E ..	B. D. S.	71, 71
Duddington	52 36	0 32 "	152	Fred Coventry ..	F. R.	61, 62
¶ Dundee	56 28	2 56 "	160	J. Carnochan ..	D. S.	55
Dungeness	50 55	0 59 E.	26	W. Grimmer ..	T.	57
¶ Dunrobin Castle	57 59	3 56 W.	12	D. Melville, for the Duke of Sutherland.	D.	54
Durham	54 46	1 35 "	336	H. J. Carpenter ..	D. F. S.	56
Dursley (Farnley), Glos. ..	51 41	2 21 "	250	R. W. Pinney ..	R.	—
Eastbourne	50 46	0 17 E.	39	R. Sheward ..	D. S.	58
East Goodwin Lightship ..	51 13	1 36 "	—	Light-keepers ..	W.	—
East Dereham	52 41	0 57 "	158	G. H. H. Cooper ..	R.	—
Edgbaston (Birmingham) ..	52 28	1 56 W.	534	Alf. Cresswell ..	D. S.	61
Edinburgh	56 57	3 12 "	253	R. C. Mossman ..	D. S.	55
English and Welsh Grounds ..	51 27	3 0 "	—	Light-keepers ..	W.	—
Lightship.				Miss A. L. Scott ..	R.	—
Ennis, Co. Clare	52 51	8 59 "	38			
Falmouth	50 9	5 4 "	167	E. Kitto ..	A. F.	72
Felixstow	51 58	1 22 E.	—	Rev. J. G. Munday ..	F. S.	—
Fleetwood	53 56	3 1 W.	—	M. S. Gaulter ..	B.	70
Forgandenny, Perth	56 21	3 29 "	175	C. L. Wood ..	C.	—
Forrest Row, Sussex	51 7	0 2 E.	619	J. Bryce ..	R.	—
¶ Fort Augustus	57 8	4 40 W.	68	Rev. J. M. Wall ..	E. F. S.	54
¶ Fort William	56 49	5 7 "	31	A. Rankin, for Directors, Ben Nevis Observatory.	A. F.	54, 66
Foyne, Co. Limerick	52 37	9 7 "	108	Lord Monteagle ..	F.	—
Fulbeck, Lincolnshire	53 3	0 37 "	185	Rev. Vere F. Willson ..	C. D.	61
Geldeston (Beccles)	52 28	1 31 E.	37	E. T. Dawson ..	D. F. S.	—
Gilcrux (Maryport)	54 44	3 23 W.	261	J. Monkhouse ..	D. F. S.	64
Glasgow	55 53	4 18 "	180	Prof. L. Becker ..	A. D. F.	66
¶ Glencarron	57 30	5 14 "	489	D. D. Munro ..	E. F.	—
¶ Glenlee	55 5	4 12 "	203	W. Melville ..	E. F.	—
¶ Gordon Castle	57 37	3 5 "	101	C. Webster, for the Duke of Richmond and Gordon, K.G.	E.	—
Gorleston (Gt. Yarmouth) ..	52 35	1 43 E.	—	R. J. C. Day ..	G.	—
Haslar Hospital, Hants. ..	50 47	1 7 W.	—	R. Harring ..	G.	—
Hawes Junction	54 19	2 18 "	1,135	W. H. Bunce ..	G.	64
Hesley Hall (Bawtry)	53 27	1 4 "	65	B. I. Whitaker ..	F.	—
¶ Hereford	52 5	2 45 "	295	C. S. Morrison ..	F.	—
Heysham Hall, Lancashire ..	54 3	2 54 "	95	S. Lomas, for Miss L. Grafton.	D.	64
¶ Hillington	52 48	0 33 E.	88	Rev. H. E. B. Ffolkes ..	D. F. S.	—
Hollesley Bay, Suffolk	52 3	1 27 "	38	Prof. C. G. F. Thonger.	D. S.	61
Holyhead, Harbour Office ..	53 18	4 39 W.	57	F. M. Cotton ..	B. W.	69
Sailors' Home	53 18	4 39 "	48	T. Chope ..	T.	73
Hoylake, Cheshire	53 23	3 12 "	—	T. Foster ..	S.	—
Hurdleystown (Broadford), Co. Clare. ..	52 48	8 38 "	157	Lieut.-Col. W. O. Bentley, R.A.	R.	—
Hurst Castle	50 42	1 33 "	12	E. T. Tremble ..	T.	57
Kearsney Abbey (Dover) ..	51 8	1 17 E.	? 100	C. W. Curtis ..	R.	—
Ketton Hall (Stamford)	52 38	0 32 W.	—	J. H. Browett ..	R.	—
Vicarage	52 38	0 32 "	109	Rev. A. Swire ..	R.	—
Kew Observatory	51 28	0 19 "	18	C. Chree ..	A.	—
Kilcredaune, Co. Clare	52 35	9 47 "	—	Coastguard ..	W.	—
Kilkenny	52 39	7 14 "	212	H. Carlton, for the Marquis of Ormonde.	C. F.	51

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspector's Report for 1898 will be found.
¶ Killarney	52° 4'	9° 30' W.	86	Ven. Archdeacon Wynne.	G. F.	-
Killiney, Co. Dublin ..	53° 16'	6° 7' "	249	R. O'Brien Furlong	R.	-
Kirkwall Lonsdale ..	54° 12'	2° 36' "	-	J. K. Picard ..	R.	-
Kirkwall ..	58° 59'	2° 57' "	-	Coastguard ..	W.	-
Kish Bank Lightship ..	53° 19'	5° 55' "	-	Light-keepers ..	W.	-
Ladylaw (Hawick) ..	55° 28'	2° 47' "	447	T. Wilson ..	D.	55
Lahinch, Co. Clare ..	52° 55'	9° 21' "	52	Miss J. Bowes ..	R.	-
¶ Lairg	58° 1'	4° 22' "	335	Rev. D. Macrae ..	E. F.	54
Lamlash, Isle of Arran ..	55° 32'	5° 8' "	-	Coastguard ..	G. W.	-
Laudale, Argyleshire ..	56° 41'	5° 41' "	14	A. Fletcher, for T. H. G. Newton.	D. F.	54
Lawrence Cove, Co. Cork ..	51° 38'	9° 50' "	-	Coastguard ..	G.	-
¶ Lednathie	56° 45'	3° 7' "	719	W. Morrison, for P. Stormont Darling.	E.	-
Leith	55° 58'	3° 10' "	20	T. Richardson ..	T.	55
Leman and Ower Lightship ..	53° 8'	2° 2' E.	-	Light-keepers ..	W.	-
Lerwick	60° 9'	1° 8' W.	-	Coastguard ..	W.	-
Limerick	52° 39'	8° 36' "	-	A. W. Shaw ..	R.	-
Liscannor, Co. Clare ..	52° 56'	9° 23' "	-	Coastguard ..	W.	-
¶ Lissan, Co. Tyrone ..	54° 41'	6° 45' "	300	The late Sir N. Staples, Bt.	E.	50
Llandinam, Montgomery ..	52° 29'	3° 26' "	500	John Owens ..	R.	-
Llandovery	51° 50'	3° 48' "	217	J. Watkins ..	F.	-
¶ Llandudno	53° 21'	3° 50' "	88	J. Nicol ..	E. F.	-
London, Brixton	53° 21'	3° 51' "	20	Wm. Little ..	S.	-
" City	51° 31'	0° 5' "	77	F. Gaster ..	T.	-
" Hampstead	51° 34'	0° 10' "	-	Messrs. de la Rue ..	S.	-
" Pall Mall	51° 30'	0° 7' "	-	H. R. Beeton ..	C.	-
" Westminster	51° 30'	0° 8' "	76	Athenaeum Club ..	C.	-
" Westminster	51° 30'	0° 8' "	-	The Staff of the Met. Office.	C. G.	-
Training College, Londonderry	55° 0'	7° 19' "	67	H. A. Reatchlous ..	S.	-
Loughborough	52° 47'	1° 12' "	160	J. Conroy ..	D. F.	-
Lowestoft	52° 29'	1° 44' E.	-	W. Berridge ..	T.	60
¶ Lowestoft	52° 29'	1° 44' "	85	C. J. Heppell ..	G.	-
Lytham	53° 44'	2° 58' W.	21	S. H. Miller ..	E.	-
Maidenhead	51° 30'	0° 43' "	49	J. Jenkins ..	D. S.	84
Malin Head, Co. Donegal ..	55° 23'	7° 24' "	230	G. H. Palmer ..	G.	-
Manchester	53° 29'	2° 13' "	190	J. Williams ..	T. C.	50
¶ Marchmont	55° 44'	2° 25' "	498	J. Niven ..	D.	83
¶ Margate	51° 24'	1° 24' E.	83	J. A. Wood ..	E. F. S.	55
Market Rasen	53° 23'	0° 20' W.	83	J. Stokes ..	S.	58
Markree Castle, Co. Sligo ..	54° 11'	8° 27' "	122	W. B. Jevons ..	R.	62
Minard, Co. Kerry	52° 7'	10° 8' "	-	F. W. Henkel, for Col. Cooper.	D. F. S.	50
Morpeth	55° 13'	1° 41' "	324	Coastguard ..	W.	-
Mount Callan (Inagh), Co. Clare ..	52° 53'	9° 16' "	479	G. P. Berry ..	D. S.	56
Nairn	57° 36'	3° 52' E.	84	Lt.-Col. Tottenham ..	R.	50
Newarp Lightship	52° 45'	1° 53' E.	-	Miss Penny ..	T.	54
Newcastle, Co. Wicklow ..	53° 5'	6° 6' W.	256	Light-keepers ..	W.	-
Newcastle-on-Tyne	54° 59'	1° 36' "	152	B. H. Steede ..	D.	50
Newmarket-on-Fergus	52° 46'	8° 53' "	-	N. H. Martin ..	G. S.	58
Newport, Monmouth	51° 35'	3° 0' "	-	W. W. Fitzgerald ..	R.	51
Newquay, Cornwall	50° 25'	5° 4' "	250	C. Collum ..	R.	-
" Northallerton	50° 25'	5° 5' "	-	J. Pearce ..	S.	59
North Foreland	54° 20'	1° 26' "	129	Coastguard ..	W.	-
North-West Lightship	51° 23'	1° 27' E.	115	W. Stead ..	R.	-
¶ Norwood	53° 31'	3° 31' W.	-	S. Jenkins ..	T.	57
Ochtertyre	51° 26'	0° 6' "	220	Light-keepers ..	W.	-
Omagh	54° 36'	7° 19' "	300	W. Marriott ..	E.	-
Oswaldkirk, Yorkshire	54° 12'	1° 3' "	-	G. Croucher, for Sir P. K. Murray, Bt.	E. F.	54
Outer Dowsing Lightship ..	53° 27'	1° 5' E.	-	Col. Buchanan ..	F.	50
Owers Lightship	50° 39'	0° 41' W.	-	R. Thompson ..	S.	-
Oxford	51° 46'	1° 16' "	208	Light-keepers ..	W.	-
Parkstone, Dorset	50° 43'	1° 56' "	197	W. Wickham ..	T. S.	73
Penbedw (Mold)	53° 12'	3° 11' "	650	R. H. Barnes ..	D.	58
Pennant Bay (Aberdour) ..	57° 40'	2° 16' "	-	H. W. Buddicom ..	C.	-
				Coastguard ..	W.	-

Appendix XI.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspector's Report for 1898 will be found.
S Pinmore (Girvan) ..	55 12	4 49 W.	187	P. Donald, for Capt. Hamilton.	E.	—
Plumstead ..	51 20	0 6 E.	—	J. G. Waller ..	S.	—
Plymouth, The Hoe ..	50 22	4 8 W.	116	H. Victor Prigg ..	D. F. S.	58
S Poltalloch ..	56 8	5 30 "	132	D. S. Melville, for Lord Malcolm.	E.	54
Portrush ..	55 13	6 40 "	—	Coastguard ..	W.	—
Port Talbot ..	51 34	3 45 "	—	J. Hollingworth, for Miss Talbot.	S.	—
Prawle Point ..	50 12	3 48 "	332	T. Howse ..	T.	57
Prestwich (Manchester) ..	53 32	2 17 "	320	T. R. H. Clunn ..	D. F. S.	—
Quin, Co. Clare ..	52 48	8 52 "	—	Mrs. Hallam Studert.	R.	—
Rede Court (Rochester) ..	51 24	0 29 E.	224	W. H. Tingey ..	D.	—
Ridgmont ..	52 1	0 36 W.	291	H. A. Mann ..	D.	61
Roche's Point, Co. Cork ..	51 47	8 15 "	42	W. Kennedy ..	T.	—
Rochford (Tenbury) ..	52 18	2 36 "	316	Rev. John Tomson ..	C. R.	—
S Rosewell ..	55 51	3 7 "	690	R. B. Mitchell ..	E.	—
Rothamsted ..	51 48	0 22 "	368	Sir J. B. Lawes and Sir J. H. Gilbert.	F. S.	—
S Rothesay ..	55 50	5 4 "	115	J. Kay ..	E.	54
M Rounton, Yorkshire ..	54 24	1 18 "	249	Sir I. L. Bell, Bart.	E.	—
M Rousdon, Devon ..	50 43	3 0 "	515	Sir C. E. Peek, Bart.	E.	—
Roxborough, Co. Limerick ..	52 35	8 36 "	111	A. W. Shaw ..	R.	—
Royal Sovereign Lightship ..	50 43	0 27 E.	—	Light-keepers ..	W.	—
Rugby ..	52 22	1 15 W.	378	E. Kitchener ..	G.	62
St. Ann's Head, Pembroke ..	51 41	5 11 "	150	H. T. Knott ..	T. S. W.	51
St. Aubin's, Jersey ..	49 12	2 11 "	25	J. Fisher ..	T.	57
St. David's, Pembrokeshire ..	51 53	5 16 "	215	W. P. Propert ..	D.	51
St. Helen's, Lancashire ..	53 28	2 45 "	151	F. Drew Harris ..	G.	63
St. Heliers, Jersey ..	49 11	2 6 "	—	Signal Officer, Fort Regent.	S.	59
St. Leonard's ..	50 51	0 33 E.	178	H. Colborne ..	D. F. S.	58
(West Marina)	50 51	0 32 "	—	T. Eldridge ..	G.	58
St. Peter Port, Guernsey ..	49 32	2 32 W.	—	F. E. Carey ..	S.	—
Salcombe, Devon ..	50 14	3 46 "	—	Coastguard ..	W.	—
Sandgate, Kent ..	51 4	1 9 E.	56	A. Robert Bowles ..	R.	—
M Scarborough ..	54 18	0 24 W.	159	E. W. Ellerbeck ..	D. F. S.	—
..	54 17	0 23 "	—	Coastguard ..	W.	—
Schull ..	51 32	9 32 "	—	—	G.	—
Scilly Islands, St. Mary's ..	49 56	6 18 "	80	A. Hicks ..	B. S. T. W.	72, 74
Seafield, Co. Clare ..	52 48	9 30 "	—	Coastguard ..	W.	—
Seaham Harbour ..	54 50	1 19 "	148	G. H. Aird ..	D.	56
Seven Stones Lightship ..	50 4	6 5 "	—	Light-keepers ..	W.	—
M Shaftesbury ..	51 1	2 12 "	—	Miss L. Wand ..	F.	—
Shambles Lightship ..	50 31	2 20 "	—	Light-keepers ..	W.	—
Sheffield ..	53 23	1 29 "	429	E. Howarth ..	D. S.	—
Sheephaven (Dunfanaghy) ..	55 11	7 58 "	—	Coastguard ..	W.	—
Shields, North ..	55 0	1 27 "	97	W. B. Clark ..	T.	69
Shields, North, High Light-house.	55 0	1 27 "	—	Captain Harrison ..	B.	68
Shipwash Lightship ..	52 2	1 38 E.	—	Light-keepers ..	W.	—
Shirley (Birmingham) ..	52 25	1 49 W.	460	B. Boothroyd ..	F.	—
Skipton ..	53 58	2 9 "	567	W. Farrer ..	G.	—
Solway Lightship ..	54 48	3 32 "	—	Light-keepers ..	W.	—
Southampton ..	50 55	1 24 "	78	J. T. Cook, for Dir. Gen. of Ordnance Survey.	D. F. S.	58
Southport ..	53 39	2 59 "	37	J. Baxendell ..	S.	—
South Rock Lightship ..	54 25	5 22 "	—	Light-keepers ..	W.	—
Spiddal, Co. Galway ..	53 15	9 17 "	—	Coastguard ..	G.	—
Spurn Head ..	53 34	0 7 E.	19	G. Freeman ..	T.	56
Spurn Lightship ..	53 24	0 13 "	—	Light-keepers ..	W.	—
Stokesay (Craven Arms) ..	52 26	2 52 W.	370	Miss M. A. Digues La Touche.	D.	—
Stonyhurst College ..	53 51	2 28 "	375	Rev. W. Sidgreaves ..	A. D. F.	65, 69
Stornoway ..	58 11	6 22 "	28	J. Mackenzie ..	T. S. C.	54
..	58 11	6 22 "	—	Coastguard ..	W.	—
Stranraer ..	54 54	5 2 "	—	—	G.	—
Strathpeffer-Spa, N.B. ..	57 37	4 28 "	253	J. Trézelles Fox ..	D. S.	—
Sumburgh Head (Shet-lands).	59 51	1 17 "	126	Rev. W. Brand ..	T. C.	54
Sunderland ..	54 54	1 23 "	—	Coastguard ..	W.	—
Symbister, Shetlands ..	60 14	1 25 "	—	J. S. Nicolson ..	G.	—
Syston, Leicester ..	62 43	1 5 "	178	S. K. Daniels ..	R.	—

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspector's Report for 1898 will be found.
Tealby, Lincolnshire ..	53 24	0 16 W.	251	Rev. S. Lewin ..	D.	61
Teelin, Co. Donegal ..	54 38	8 39 "	—	Coastguard ..	W.	—
Temple Bruer, Lincolnshire ..	53 4	0 30 "	—	Mrs. Morley ..	R.	—
Tenby ..	51 41	4 42 "	79	W. T. Balmer ..	D. S.	—
Thurcaston (Leicester) ..	52 42	1 10 "	253	Rev. T. A. Preston ..	S.	—
Tixover Hall ..	52 35	0 33 "	129	Capt. H. E. Hotham ..	R.	—
Torquay ..	50 28	3 31 "	286	A. Chandler ..	S.	—
Totland Bay, Isle of Wight ..	50 41	1 33 "	84	J. Dover ..	G.	—
Union Hall, Co. Cork ..	51 33	9 8 "	—	Coastguard ..	G.	—
Uppingham ..	52 35	0 44 "	484	Rev. G. H. Mullins ..	D.	—
Uzon (Montrose) ..	56 40	2 28 "	—	Coastguard ..	W.	—
Valencia Observatory, Ca- hirciveen ..	51 56	10 15 "	30	J. E. Cullum ..	A. T. C.	51, 71
" Island, Glauncam ..	51 56	10 20 "	—	Miss E. FitzGerald ..	R.	—
" Knightstown ..	51 55	10 20 "	—	Coastguard ..	G.	—
Ventnor	50 36	1 13 "	80	Miss M. Gibson ..	S.	—
Wakefield	53 41	1 30 "	96	H. Clarke ..	E.	—
Waterford	52 16	7 7 "	—	Harbour Authorities ..	C.	—
Watergate (Emsworth) ..	50 56	0 55 "	236	W. M. Christy ..	R. S.	58
Wealdstone	51 37	0 20 "	179	G. E. Eland ..	R.	—
Westbourne, Sussex ..	50 52	0 55 "	—	Rev. L. B. Birkett ..	S.	—
Westray, Orkney ..	59 17	3 0 "	—	J. Hewison ..	G.	—
Whitchurch	50 32	4 6 "	593	E. E. Glyde ..	E.	—
Wick	58 27	3 6 "	80	J. Sinclair ..	T.	55
"	58 27	3 6 "	—	Coastguard ..	W.	—
Wolfelee	55 23	2 39 "	587	W. Gordon ..	D.	55
Woolacombe (Devon) ..	51 10	4 12 "	59	E. Henshall ..	D.	—
Worksop	53 22	1 5 "	56	H. Mellish ..	S.	—
Yarmouth	52 37	1 43 E.	10	G. T. Watson ..	B. T. C.	68, 69
Isle of Wight	50 42	1 29 W.	—	Coastguard ..	G.	—
Ynis-y-bro (Newport) ..	51 38	3 3 "	115	C. Cullum ..	R.	—
York, Bootham	53 57	1 5 "	—	E. B. Collinson ..	S.	56
" The Museum	53 57	1 5 "	58	H. M. Platnauer ..	D. T.	56

In addition to those already mentioned, reports are received daily from the following Continental Stations.

Station.	Authority.	Station.	Authority.
Haparanda	{ Meteorological Office, Stockholm.	†The Helder	{
Hernösand		Brussels	
†Stockholm		Cape Gris Nez	
Wisby		†Brest (St. Mathieu)	
Karlstad		Lorient (Ile de Groix)	
Bodö	{ Meteorological Institute, Christiansund	†Rochefort (Ile d'Aix)	{ Bureau Central
†Christiansund		†Biarritz	Météorologique,
†Skudesnaes		†Paris	Paris.
Færder		Belfort	
†The Seaw	{ Meteorological Institute, Copenhagen.	Lyons	
Fanö		Nice	
Cuxhaven	Deutsche Seewarte, Hamburg.	Perpignan	
		Berlin	{ Cent. Met. Inst.
		Wiesbaden	of Germany.
		Munich	
		Corunna	{ Observatory.
		†Lisbon	Lisbon.
		Azores (P. Delgada)	

Note—The stations marked with an asterisk (*) report also at 2h. p.m., and those with dagger (†) at 6h. p.m.; Lisbon reports at 4h. p.m. instead of 6h. p.m.
The Helder does not send reports at 6 p.m. on Sundays.

Appendix XI.—List of Stations.

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LIST OF BRITISH STATIONS ARRANGED UNDER COUNTIES.

County.	Station.	County.	Station.
England :—		England—cont.	
Bedford ...	Aspley Guise. Ridgmont.	Lancashire ...	Darwen. Fleetwood.
Berkshire ...	Maidenhead.		Heysham. Lytham.
Buckingham ...			Manchester.
Cambridge ...	Cambridge.		Prestwich.
Cheshire ...	Bidston. Chester. Hoylake.		St. Helens. Southport. Stonyhurst.
Cornwall ...	Falmouth. Newquay. Scilly.	Leicester ...	Belvoir Castle. Loughborough. Syston.
Cumberland ...	Gilcrux.		Thurcaston.
Derby ...	Buxton.	Lincoln ...	Fulbeck. Market Rasen. Tealby.
Devon ...	Arlington. Cullompton. Plymouth. Prawle Point. Rousdon. Salcombe. Tavistock. Torquay. Woolacombe.	Middlesex ...	Temple Bruer. London : City. Hampstead. Pall Mall. Westminster.
Dorset ...	Parkstone. Shaftesbury.	Monmouth ...	Wealdstone. Newport.
Durham ...	Durham. Seaham. Sunderland.	Norfolk ...	Ynis-y-bro. East Dereham. Geldeston. Hillington. Yarmouth.
Essex ...		Northampton ...	Colly Weston. Duddington.
Gloucester ...	Campden (Hidcote) Cheltenham. Cirencester. Clifton. Dursley.	Northumberland	Alnwick Castle. Morpeth. Newcastle. North Shields.
Hampshire ...	Bournemouth. Haslar. Hurst Castle. Southampton. Totland Bay. Ventnor. Yarmouth.	Nottingham ...	Hesley Hall. Worksop.
Hereford ...	Hereford.	Oxford ...	Burford. Churchill. Oxford.
Hertford ...	Bennington. Berkhamsted. Rothamsted.	Rutland ...	Ketton Hall. Do. Vicarage. Tixover Hall.
Huntingdon ...		Shropshire ...	Uppingham. Stokesay.
Kent ...	Chatham. Dover. Dungeness. Kearsney. Margate. North Foreland. Plumstead. Rede Court. Sandgate.	Somerset ...	— Cheadle. Felixstow. Gorleston. Hollesley Bay.
Lancashire ...	Blackpool. Bolton.	Stafford ...	Lowestoft. Bramley. Brixton. Cooper's Hill. Cranleigh. Kew. Norwood.
		Suffolk ...	
		Surrey ...	

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County.	Station.	County.	Station.
England—cont.		Scotland—cont.	
Sussex ...	Bognor. Brighton. Cuckfield. Eastbourne. Forrest Row. St. Leonards. Do. West Marina. Watertown Park. Westbourne.	Banff ... Berwick Bute ... Caithness Clackmannan ... Cromarty ... Dumbarton ... Dumfries ... Edinburgh ... Elgin ... Fife ... Forfar ... Haddington ... Inverness ... Kincardine ... Kinross ... Kirkcudbright ... Lanark ... Linlithgow ... Nairn ... Orkney ... Peebles ... Perth ... Renfrew ... Ross ... Roxburgh ... Selkirk ... Shetlands ... Stirling ... Sutherland ... Wigtown ...	Cullen. Gordon Castle. Burnmouth. Marchmont Lamlash. Rothesay. Wick. — Cromarty. Strathpeffer Spa. — Edinburgh. Leith. Rosewell. — Burntisland. Dundee. Ledenathie. Uzon. — Ben Nevis. Fort Augustus Fort William. Cove Bay. — Cargen. Glenlee. Glasgow. — Nairn. Deerness. Kirkwall. Westray. — Forgandenny. Ochtertyre. — Glencarron. Stornoway. Ladylaw. Wolfisle. — Lerwick. Sumburgh Head. Symbister. — Dunrobin Castle. Laig. Stranraer. —
Warwick ..	Edgbaston. Rugby. Shirley.		
Westmoreland ...	Kirkby Lonsdale.		
Wiltshire ...	—		
Worcester ...	Rochford.		
Yorkshire ...	Aysgarth. Hawes. Northallerton. Oswaldkirk. Rouinton. Scarborough. Sheffield. Skipton. Spurn Head. Wakefield. York.		
Wales :—			
Anglesey ...	Holyhead.		
Brecknock ...	—		
Cardigan ...	—		
Carmarthen ...	Llandovery.		
Carnarvon ...	Llandudno.		
Denbigh ...	Colwyn Bay.		
Flint ...	Penbedw.		
Glamorgan ...	Port Talbot.		
Merioneth ...	Aberdovey. Dolmelynlyn.		
Montgomery ...	Churchstoke. Llandinam.		
Pembroke ...	St. Ann's Head. St. David's. Tenby.		
Radnor ...	Dissert.		
Islands :—			
Isle of Man ...	Cronbourne.		
Jersey ...	St. Aubin's. St. Heliers.		
Guernsey ...	St. Peter Port.		
Scotland :—			
Aberdeen ...	Aberdeen. Braemar. Pennant Bay.		
Argyll ...	Lochgoil. Poltalloch.		
Ayr ...	Ardrossan. Ballantrae. Pinmore.		
Ireland :—			
Antrim ...	Portrush.		
Armagh ...	Armagh.		
Carlow ...	—		
Cavan ...	—		
Clare ...	Ennis. Hurdlestow. Kilcredaun. Lahinch. Liscannor.		

Appendix XI.—List of Stations.

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County.	Station.	County.	Station.
Ireland—cont. Clare ...	Mount Callan. Newmarket-on- Fergus. Quin. Seafield. Ballydonegan. Baltimore. Bantry. Castletown Bere. Castletownshend. Crookhaven. Crosshaven. Doneraile. Lawrence Cove. Roches Point. Schull. Union Hall. Malin Head. Sheep Haven. Teelin.	Ireland—cont. Kerry ...	Minard. Valencia. Do. Glanleam. Do. Knightstown. Kildare ... Kilkenny ... King's Co. ... Leitrim ... Limerick ... Londonerry ... Longford ... Louth ... Mayo ... Meath ... Monaghan ... Queen's Co. ... Roscommon ... Sligo ... Tipperary ... Tyrone ... Waterford ... Westmeath ... Wexford ... Wicklow ...
Cork ...	Fergus. Quin. Seafield. Ballydonegan. Baltimore. Bantry. Castletown Bere. Castletownshend. Crookhaven. Crosshaven. Doneraile. Lawrence Cove. Roches Point. Schull. Union Hall. Malin Head. Sheep Haven. Teelin. Donaghadee. Dublin (City). Do. (Mountjoy Barracks.) Glasnevin. Killiney.	Kerry ...	— Kilkenny. Birr Castle. Carrigallen. Foynes. Limerick. Roxborough. Londonerry. Currygrane. — Ballyglass. Belmullet. Blacksod Point. — — — — — Markree Castle. — Lissan. Omagh. Waterford. — Bray. Newcastle.
Donegal ...	—	—	—
Down ...	—	—	—
Dublin ...	—	—	—
Fermanagh ...	—	—	—
Galway ...	Arran. Cleggan. Spiddal.	—	—
Kerry ...	Killarney.	—	—

R E P O R T

OF THE

METEOROLOGICAL COUNCIL,

For the Year ending 31st of March, 1900,

TO THE

PRESIDENT AND COUNCIL

OF THE

ROYAL SOCIETY.

Presented to both Houses of Parliament by Command of Her Majesty.



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APPENDIX XIII.

LIST of STATIONS in the BRITISH ISLANDS from which INFORMATION has been received at the METEOROLOGICAL OFFICE during the Year ended March 31st, 1900.

The Stations marked "S" are in connexion with the Scottish Meteorological Society, and those marked "R" are in connexion with the Royal Meteorological Society. The returns from these Stations are received by the Office under an arrangement which will be found detailed in previous reports.

In certain cases where the actual station at which the Observations have been taken is not generally known, and could not be readily identified, the name of some village or town near has been inserted following the name of the station, within brackets.

The nature of the information received from each station is indicated by letters, as follows :—

- A.—Continuous record of pressure, temperature, wind, sunshine, and rain, with eye observations of the amount, form, and motion of the clouds, and notes on the weather. (Class 1, Observatories, p. 17.)
- B.—Continuous record of the direction and velocity (or force) of the wind. (Class 2, Anemographic Stations, p. 17.)
- C.—Continuous record of pressure. (Class 3, Barographic Stations, p. 17.)
- D.—Monthly sheets, containing the regular observations at 9 a.m. and 9 p.m. each day, local time, of pressure, temperature (dry bulb and wet bulb), wind, cloud, and weather, with the daily maximum and minimum of temperature, the daily rainfall, and general remarks on the weather. (Class 6, Second Order Stations, p. 17.)
- E.—Monthly means and summaries on Form B. of observations taken at 9 a.m. and 9 p.m. each day as above. (Class 6, Second Order Stations, p. 17.)
- F.—The maximum and minimum temperature, and the rainfall for each day, with remarks on the weather. This information is received in the Meteorological Office each week for use in the "Weekly Weather Report." (Various Classes, p. 17.)
- G.—Observations of the same kind as at Second Order Stations, but either—
 - (a) Less full.
 - (b) Taken only once daily.
 - (c) Taken at hours other than 9 a.m. and 9 p.m. (Class 7, Third Order Stations, p. 17.)
- R.—Monthly sheets containing the daily observations of the amount of rainfall, with remarks on the weather. (Class 7, Third Order Stations, p. 17.)

Appendix XIII.—List of Stations.

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S.—Continuous record of bright sunshine. (Class 4, Sunshine Stations, p. 17.)

T.—Regular observations at 8 a.m. and 6 p.m. G.M.T. (and from some stations at 2 p.m. in addition), of pressure, temperature, wind and weather, with the daily maximum and minimum of temperature, the daily rainfall, and, where possible, the sea disturbance at 8 a.m. each day, and the daily amount of bright sunshine. This information is received at the Meteorological Office each day by telegraph, for use in the "Daily Weather Report" and in the "Weekly Weather Report." (Class 5, Telegraphic Stations, p. 17.)

W.—Daily observations of the temperature of the sea water. (Class 8, Sea Temperature Stations, p. 17.)

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspec- tor's Report for 1899 will be found.
Aberdeen Observatory ..	57° 10'	2° 6' W.	48	Prof. C. Niven, F.R.S. ..	A. T. C	79, 98
Cove Bay ..	57° 9'	2° 5" "	—	Coastguard	W.	
Aberdovey ..	52° 33'	4° 4" "	—	John Edwards	S.	
Adare ..	52° 33'	8° 47" "	—	W. Bowles	R.	
Alnwick Castle ..	55° 25'	1° 43" "	210	Humphry Willyams, for the Duke of Northum- berland.	B. F.	97, 100
Ampleforth	54° 12'	1° 5" "	349	Rev. J. B. McLaughlin, O.S.B.	D.	
Ardross Castle, N.B. ..	57° 45'	4° 21" "	449	W. Minty	R.	
Arlington Court (Barnstaple) ..	51° 8'	3° 58" "	613	Lady Chichester	F.	80
Armagh Observatory ..	54° 21'	6° 39" "	198	J. L. E. Dreyer, Ph.D. ..	B.D.F.S.	93, 96
Arran, North, Galway ..	53° 6'	9° 40" "	—	Coastguard	G. W.	
Aspley Guise, Beds. ..	52° 1'	0° 38" "	410	E. E. Dymond	S.	
Aysgarth Vicarage, Yorks. ..	54° 18'	1° 58" "	646	Rev. F. W. Stow, M.A. ..	D.	81
Bahama Bank Lightship ..	54° 20'	4° 13" "	—	Light-keepers	W.	
Ballantrae, Ayrshire ..	55° 6'	5° 0" "	—	Coastguard	W.	
Ballydonegan, Co. Cork ..	51° 38'	10° 3" "	—	"	W.	
Ballyglass, Co. Mayo ..	54° 17'	9° 52" "	—	"	W.	
Baltimore, Co. Cork ..	51° 28'	9° 22" "	—	"	G.	
Barvin (Potter's Bar) ..	51° 41'	0° 8" "	7400	W. E. Dalston	R.	
Belfast, Queen's College ..	54° 35'	5° 56" "	61	John Wylie	D.	73
Belmullet, Co. Mayo ..	54° 13'	9° 59" "	40	Miss E. Tolian	T.	
Belvoir Castle (Grantham) ..	52° 54'	0° 47" "	259	W. H. Divers, for the Duke of Rutland.	D.	
Ben Nevis	56° 48'	5° 0" "	4,405	A. Rankin, for Directors Ben Nevis Observatory.	A. E.	
Bennington, Herts. ..	51° 54'	0° 5" "	407	Rev. J. D. Parker, LL.D.	E.	
Berkhamsted ..	51° 49'	0° 34" "	400	E. Mawley, F.R. Met. Soc.	E.	
Bidston Observatory (Liver- pool). ..	53° 24'	3° 4" "	188	W. E. Plummer, F.R.A.S.	D. T.	81
Birr Castle (Parsonstown) ..	53° 6'	7° 55" "	175	J. Spooner and T. Colvin, for the Earl of Rosse.	D. S. T.	74
Blackpool	53° 48'	3° 3" "	62	A. J. Anderson, M.A., M.B., for the Corporation.	F. S.	
Blacksod Point, Co. Mayo. ..	54° 6'	10° 4" "	37	A. Marshall	W. T.	73
Bognor	50° 47'	0° 40" "	—	H. C. L. Morris, M.D., for the Corporation.	S.	
Bolton	53° 35'	2° 27" "	389	W. W. Midgley, for the Corporation.	G.	
Bournemouth.	50° 43'	1° 53" "	—	Messrs. Primavesi, for Town Council.	S.	
Braemar	57° 0'	3° 24" "	1,111	J. Aitken, J.P.	D. F. S.	
Bramley, Surrey ..	51° 11'	0° 33" "	148	J. Bartlett, M.A.	D.	
Bray, Co. Wicklow ..	53° 12'	6° 6" "	—	Coastguard	G.	
Brighton	50° 49'	0° 8" "	65	A. Newholme, M.D., for the Corporation.	S.	
Burford, Oxon ..	51° 48'	1° 38" "	420	M. Jacobs	R.	
Burnmouth (Ayton, Berwick) ..	55° 51'	2° 4" "	—	Coastguard	W.	
Burntisland ..	56° 4'	3° 14" "	—	—	W.	
Buxton	53° 14'	1° 54" "	987	W. Pilkington	E.	
Caernarvon Bay Lightship ..	53° 6'	4° 45" "	—	Light-keepers	W.	
Cambridge	52° 13'	0° 6' E.	83	Miss A. Walker, for Sir Robt. Ball, F.R.S.	T. S. D.	
Cardigan Bay Lightship ..	52° 25'	5° 1' W.	—	Light-keepers	W.	
Cargin	55° 2'	3° 37" "	72	A. Peacock	E.	
Carrigallen, Co. Leitrim ..	53° 58'	7° 38" "	7350	Mrs. J. Godley and Miss Morrow.	R.	
Castletownshend, Co. Cork ..	51° 32'	9° 11" "	—	Coastguard	G.	
Chatham	51° 23'	0° 32' E.	136	The Instructor in Survey- ing.	G.	89
Cheadle	52° 58'	1° 57' W.	646	J. C. Philips	E. F.	
Cheltenham	51° 54'	2° 3" "	184	R. Tyrer, B.A.	E.	
Chester	53° 12'	2° 54" "	59	Rev. J. Cairns Mitchell, B.D.	D.	
Churchill, Oxon	51° 56'	1° 34" "	509	Giles Edmonds	R.	
Churchstoke	52° 31'	3° 5" "	538	P. Wright, F.C.S.	D. F. S.	
Cirencester	51° 43'	1° 57" "	446	Prof. G. T. Locke, M.A. ..	F. S.	
Cleggan, Co. Galway ..	53° 33'	10° 8" "	—	Coastguard	W.	
Clifton	51° 27'	2° 37" "	230	D. Rintoul, M.A.	F.	

Appendix III.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspec- tor's Report for 1899 will be found.
Colly Weston	52 37	0 31 W.	280	Miss A. Tasker	R.	
Colwyn Bay	53 17	3 43 "	—	R. E. Lord, M.D., B.Sc.	S.	
Couningbeg Lightship	52 2	6 40 "	—	Light-keepers	W.	
Cooper's Hill (Egham)	51 26	0 34 "	279	Prof. H. McLeod, F.R.S.	G.	
M Cranleigh	51 8	0 29 "	232	Rev. G. C. Allen	F.	
Cromarty	57 41	4 0 "	—	Coastguard	W.	
Croukbourne (Douglas)	54 10	4 29 "	137	A. W. Moore, M.A.	D. F. S.	
Crookhaven	51 28	9 43 "	—	Coastguard	G.	
Croshaven	51 48	8 18 "	—			
Cuckfield, Sussex	51 1	0 9 "	389	John Howe	R.	
M Culcompton	50 51	3 23 "	202	T. Turner, J.P.	F. S.	
Currygrane (Edgeworthstown), Co. Longford.	53 45	7 39 "	267	J. M. Wilson, M.A.	D.	
Darwen, Lancashire	53 41	2 28 "	710	G. Mainland, for the Cor- poration.	S.	82
Deerness, Orkney Islands.. ..	58 56	2 45 "	160	M. Spence	B. D. S.	98
Dissert (Llandrindod)	52 13	3 24 "	711	Rev. J. Le Herbert	R.	
Dolmelynllyn (Dolgelly)	52 47	3 53 "	—	W. Simmonds	R.	
Donaghadee	54 38	5 32 "	40	J. Conolly	T.	73
Doneraile, Co. Cork	52 13	8 34 "	266	Capt. J. W. Evans, J.P.	R.	
Dover	51 7	1 18 E.	198	H. E. Stilgoe, C.E.	R.	
Dublin, Botanic Gardens	53 23	6 16 W.	87	F. W. Moore, M.R.I.A.	D.	74
" City	53 20	6 15 "	47	Sir J. W. Moore, M.D.	D. F.	
" Phoenix Park	53 22	6 21 "	155	Major Sim, R.E., and Major Haynes, R.E.	B. D. S.	94, 95
Duddington	52 36	0 32 "	152	The late Fred Coventry	F. R.	86
S Dundee	56 28	2 56 "	160	J. Carnochan	D. S.	79
Dungeness	50 55	0 58 E.	26	W. H. Taylor	T.	90
S Dunrobin Castle	57 59	3 56 W.	12	D. Melville, for the Duke of Sutherland.	D.	78
Durham	54 46	1 35 "	336	H. J. Carpenter and Prof. R. A. Sampson, M.A.	D. F. S.	85
Dursley, Glos...	51 41	2 21 "	250	R. W. Pinney	R.	
Eastbourne	50 46	0 17 E.	39	R. Sheward, for the Corpo- ration.	D. S.	89
East Goodwin Lightship	51 13	1 36 "	—	Light-keepers	W.	
East Dereham	52 41	0 57 "	158	G. H. H. Cooper	R.	
Edgbaston (Birmingham)	52 28	1 56 W.	534	Alf. Cresswell	D. F. S.	81
Edinburgh	55 57	3 12 "	253	R. C. Mossman, F.R.S.E.	D. S.	79
English and Welsh Grounds	51 27	3 0 "	—	Light-keepers	W.	
Lightship.						
Ennis, Co. Clare	52 51	8 59 "	38	Miss A. L. Scott	R.	
Ennistymon, Co. Clare	52 57	9 17 "	131	Rev. C. W. McDowell, M.A.	R.	
Falmouth	50 9	5 4 "	167	E. Kitto	A. F.	94, 96
Felixstowe	51 58	1 22 E.	78	Rev. J. G. Munday, M.A.	F. S.	86
Fleetwood	53 56	3 1 W.	—	M. S. Gaultier, C.E.	B.	92
Forgandenny, Perth	56 21	3 39 "	175	C. L. Wood	C.	
Forest Row, Sussex	51 7	0 2 E.	619	Rt. Hon. J. Bryce, D.C.L., M.P.	R.	
S Fort Augustus.. ..	57 8	4 40 W.	68	Rev. J. M. Wall	E. F. S.	78
Fort William	56 49	5 7 "	31	A. Rankin, for Directors, Ben Nevis Observatory.	A. F.	77, 92
Foyne, Co. Limerick	52 37	9 7 "	108	W. H. Ward, for Lord Monteagle.	F.	
Fulbeck, Lincolnshire	53 3	0 37 "	185	Rev. V. F. Willson, M.A.	C. D.	88
Geldeston (Beccles)	52 28	1 31 E.	37	E. T. Dawson	D. F. S.	86
Glasgow	55 53	4 18 W.	180	Prof. L. Becker, Ph.D.	A. D. F.	79, 99
Glencarron	57 30	5 14 "	489	D. D. Munro	E. F.	
S Glenlee	55 5	4 12 "	203	W. Melville	E. F.	
S Gordon Castle.. ..	57 37	3 5 "	101	C. Webster, for the Duke of Richmond and Gordon, K.G.	E.	78
Gorleston (Gt. Yarmouth)	52 35	1 43 E.	—	The late R. J. C. Day	G.	
Haslar Hospital, Hants.	50 47	1 7 W.	--	C. Seaman	G.	

Station,	Lat.	Long.	Height in feet above M.S.L.	Observer,	Nature of Information supplied.	Page where Inspector's Report for 1899 will be found.
Hawes Junction ..	54 19	2 18 W.	1,135	W. H. Bunce ..	G.	
Hesley Hall (Bawtry) ..	53 27	1 4 "	65	B. I. Whitaker, J.P. ..	F.	
At Hereford ..	52 5	2 45 "	281	Rev. J. M. Dawson and Rev. T. B. Harrington.	F.	25
Heysham Hall, Lancashire	54 3	2 54 "	95	S. Lomas, for Miss L. Grafton.	D.	
Hidcote (Campden), Glos..	52 5	1 46 "	524	Capt. W. Wright, R.A. ..	R.	
At Hillington ..	52 48	0 33 E.	88	Rev. H. E. B. Folkes, M.A. ..	D. F. S.	
Hollesley Bay, Suffolk ..	53 3	1 27 "	38	Prof. C. G. Freer Thon- ger, F.C.S.	D. S.	86
Holyhead, Harbour Office..	53 18	4 39 W.	57	F. M. Cotton, C.E. ..	B. W.	74, 84
Sailors' Home ..	53 18	4 39 "	48	T. Chope ..	T.	74
Hoylake, Cheshire ..	53 23	3 12 "	—	T. Foster ..	S.	
Hurdlestown (Broadford), Co. Clare.	52 48	8 38 "	157	Lieut.-Col. W. O. Bentley, R.A.	R.	
Hurst Castle ..	50 42	1 33 "	12	E. T. Tremble ..	T.	80
Kearsney Abbey (Dover) ..	51 8	1 17 E.	7100	C. W. Cartis ..	R.	
Chilton Farm ..	51 8	1 17 "	135	H. E. Stilgoe, C.E. ..	R.	
Kettön Hall (Stamford) ..	52 38	0 32 W.	—	J. H. Browett ..	R.	86
" Vicarage ..	52 38	0 32 "	109	Rev. A. Swire ..	R.	86
Kew Observatory ..	51 28	0 19 "	18	C. Chree, D.Sc., F.R.S. ..	A.	
Kilcreddane, Co. Clare ..	52 35	9 47 "	—	Coastguard ..	W.	
Kilkenny ..	52 39	7 14 "	212	H. Carlton, for the Marquis of Ormonde.	C. F.	74
At Killarney ..	52 4	9 30 "	86	Ven. Archdeacon Wynne ..	G. F.	
Killiney, Co. Dublin ..	53 18	6 7 "	249	R. O'Brien Furlong ..	R.	
Kirkwall ..	58 59	2 57 "	—	Coastguard ..	W.	
Kish Bank Lightship ..	53 19	5 55 "	—	Light-keepers ..	W.	
Ladylaw (Hawick) ..	55 28	2 47 "	447	T. Wilson ..	D.	
Lahinch, Co. Clare ..	52 55	9 21 "	52	Miss I. F. K. Bowes ..	R.	74
Laing ..	58 1	4 22 "	335	Rev. D. Macrae ..	E. F.	78
Lamlash, Isle of Arran ..	56 32	5 8 "	—	Coastguard ..	G. W.	
Laudale, Argyleshire ..	56 41	5 41 "	14	A. Fletcher, for T. H. G. Newton, M.A. ..	D. F.	
At Lednathie ..	56 45	3 7 "	719	W. Morrison, for P. Stor- month Darling.	E.	
Leith ..	55 58	3 10 "	19	T. Richardson ..	T.	79
Leman and Ower Lightship	53 8	2 2 E.	—	Light-keepers ..	W.	
Lerwick ..	60 9	1 8 W.	—	Coastguard ..	W.	
Limerick ..	52 39	8 36 "	—	A. W. Shaw ..	W.	
At Liscannor, Co. Clare ..	52 56	9 28 "	—	Coastguard ..	W.	
At Lissan, Co. Tyrone ..	54 41	6 45 "	300	<i>The late</i> Sir N. Staples, Bt. ..	E.	
Littlestone-on-Sea ..	50 59	0 59 E.	—	W. Walsh, for H. T. Tubbs ..	G. S.	89
Llandinam, Montgomery ..	52 29	3 26 W.	500	John Owens ..	R.	
Llandovery ..	51 59	3 48 "	217	J. Watkins ..	F.	
At Llandudno ..	53 21	3 50 "	72	Wm. Little, for Town Council.	E. F. S.	
London, Brixton ..	51 27	0 8 "	77	F. Gaster ..	T.	
" City ..	51 31	0 5 "	80	Messrs. de la Rue ..	S.	
" Hampstead ..	51 34	0 10 "	—	H. R. Beeton ..	C.	
" Pall Mall ..	51 35	0 7 "	—	Athenaeum Club ..	C.	
" Westminster ..	51 30	0 8 "	78	The Staff of the Met. Office ..	C. G.	
" Westminster ..	51 30	0 8 "	—	H. A. Reatchlous, M.A. ..	S.	
Training College ..	—	—	—			
Londonderry ..	55 0	7 19 "	67	J. Conroy ..	D. F.	73
Loughborough ..	52 47	1 12 E.	146	W. Berridge ..	T.	
Lowestoft ..	52 29	1 44 E.	—	C. J. Heppell ..	G.	
At Lowestoft ..	52 29	1 44 "	84	S. H. Miller ..	E. S.	87
Lytham ..	53 44	2 58 W.	21	Medical Officer of Health, for the Corporation.	D. S.	81
Maidenhead ..	51 30	0 43 "	99	G. H. Palmer ..	G.	89
Malin Head, Co. Donegal ..	55 23	7 24 "	230	J. Putt ..	T. O.	73
Mullaranny ..	53 55	9 40 "	119	Miss M. Kilby ..	R.	
Manchester ..	53 19	2 13 "	190	J. Niven, M.A., M.B., for the Corporation.	D.	82
At Marchmont ..	55 44	2 25 "	498	J. A. Wood ..	E. F. S.	
Marcate ..	51 24	1 24 E.	83	J. Stokes, J.P. ..	S.	
Market Rasen ..	53 23	0 20 W.	83	W. B. Jevons ..	R.	

Appendix XIII.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Information supplied.	Page where Inspect- or's Report for 1899 will be found.
Markree Castle, Co. Sligo ..	54 11	8 27 W.	122	F. W. Henkel, B.A., for Col. Cooper.	D. F. S.	73
Minard, Co. Kerry ..	52 7	10 8 "	—	Coastguard	W.	
Morpeth ..	55 13	1 41 "	324	G. P. Berry and T. V. Steele	D. S.	87
Mount Callan (Inagh), Co. Clare.	52 53	9 16 "	479	Lt.-Col. Tottenham ..	R.	
Nairn ..	57 36	3 52 "	82	Miss Penny ..	T.	78
Newarp Lightship ..	52 45	1 53 E.	—	Light-keepers ..	W.	
Newcastle, Co. Wicklow ..	53 5	6 6 W.	256	Dr. B. H. Steede ..	D.	74
Newcastle-on-Tyne ..	54 59	1 36 "	152	N. H. Martin, F.C.S.	G. S.	87
Newmarket-on-Fergus ..	52 46	8 53 "	—	W. W. Fitzgerald ..	R.	
Newport, Monmouth ..	51 35	3 0 "	—	C. Cullum ..	R.	
Newquay, Cornwall ..	50 25	5 4 "	250	J. Pearce ..	S.	
Newton Reigny (Penrith) ..	54 41	2 48 "	579	Coastguard ..	W.	
Northallerton ..	54 20	1 26 "	129	T. G. Benn ..	F. S.	81
North-West Lightship ..	53 31	3 31 "	—	W. Stead, C.E. ..	R.	
¶ Norwood ..	51 26	0 6 "	220	Light-keepers ..	W.	
¶ Ochtertyre ..	56 23	3 53 "	329	W. Marriott ..	E.	
Omagh (Edenfel) ..	54 36	7 19 "	300	G. Croucher, for Sir P. K. Murray, Bt.	E. F.	77
Oswaldkirk, Yorkshire ..	54 12	1 3 "	510	Col. Buchanan, C.B. ..	F.	73
Outer Dowsing Lightship ..	53 27	1 5 E.	—	R. Thompson ..	S.	
Owers Lightship ..	50 39	0 41 W.	—	Light-keepers ..	W.	
Oxford ..	51 46	1 16 "	208	A. A. Rambaut, M.A. ..	T. S.	99
Pant-y-reos ..	51 38	3 4 "	449	C. Cullum ..	R.	
Parkstone, Dorset ..	50 43	1 56 "	197	R. H. Barnes, B.A. ..	D.	
Pentedw (Mold) ..	53 12	3 11 "	650	H. W. Buddicom ..	C.	
Pennant Bay (Aberdour) ..	57 40	2 16 "	—	Coastguard ..	W.	
Pennington ..	50 46	1 35 "	—	Miss H. Fullerton ..	R.	
Peper Harow ..	51 11	0 40 "	199	John Warner ..	R.	
¶ Pinmore (Girvan) ..	55 12	4 49 "	187	P. Donald, for Capt. Hamilton ..	E.	79
Plumstead ..	51 29	0 6 E.	785	J. G. Waller ..	S.	
Plymouth, The Hoe ..	50 22	4 8 W.	116	H. Victor Prigg, C.E., for the Corporation.	D. F. S.	80
¶ Poltalloch ..	56 8	5 30 "	132	D. S. Melville, for Lord Malcolm.	E.	
Portland Bill ..	50 32	2 27 "	177	C. Smith ..	T.	
Portrush ..	55 13	6 40 "	—	Coastguard ..	W.	
Port Talbot ..	51 34	3 45 "	—	R. Milner, for Miss Talbot ..	S.	
Prawle Point ..	50 12	3 43 "	332	T. Howse ..	T.	80
Prestwich (Manchester) ..	53 32	2 17 "	320	T. R. H. Clunn, M.D. ..	D. F. S.	82
Quin, Co. Clare ..	52 48	8 52 "	—	Mrs. Hallam Studdert ..	R.	74
Recess, Co. Galway ..	53 28	9 44 "	90	A. A. Smith ..	R.	
Rede Court (Rochester) ..	51 24	0 29 E.	224	W. H. Tingey, B.A. ..	D.	89
Rhyl ..	53 19	3 29 W.	—	T. F. Hughes ..	S.	
Ridgmont ..	52 1	0 36 "	291	H. A. Mann, B.Sc., and H. M. Freear.	D.	
Ridlington ..	52 37	0 45 "	522	N. W. Worley ..	R.	
Roche's Point, Co. Cork ..	51 47	8 15 "	42	W. Kennedy ..	T.	74
Rochford (Tembury) ..	52 18	2 36 "	316	Rev. John Tomson ..	C. R.	
¶ Rosewell ..	55 51	3 7 "	690	R. B. Mitchell ..	E.	79
Rothamsted ..	51 48	0 22 "	368	Sir J. B. Lawes, Sir J. H. Gilbert, and T. Wilson ..	F. G. S.	90
¶ Rothesay ..	55 50	5 4 "	115	J. Kay ..	E.	
¶ Rounton, Yorkshire ..	54 24	1 18 "	242	Sir I. L. Bell, Bart., F.R.S.	E.	
¶ Rousdon, Devon ..	50 43	3 0 "	515	Sir C. E. Peek, Bart., M.A. ..	E.	
Roxborough, Co. Limerick ..	52 35	8 36 "	111	A. W. Shaw ..	R.	
Royal Sovereign Lightship ..	50 43	0 27 E.	—	Light-keepers ..	W.	
Rugby ..	52 22	1 15 W.	379	E. Kitchener, M.A., and St. J. B. W. Willson, M.A. ..	G.	
St. Ann's Head, Pembroke ..	51 41	5 30 "	150	G. H. Dunsford ..	T. S. W.	74
St. Aubin's, Jersey ..	49 12	2 11 "	25	J. Fisher ..	I.	96

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Page where Inspec- tor's Report for 1899 will be found.
St. David's, Pembrokeshire	51 53	5 16 W.	215	W. P. Propert, LL.D.	D.	
St. Helen's, Lancashire ..	53 28	2 45 "	151	F. Drew Harris, M.D., for the Corporation.	G.	
St. Heliers, Jersey ..	49 11	2 6 "	—	Signal Officer, Fort Regent	S.	
St. Leonard's ..	50 51	0 33 E.	178	H. Colborne, M.R.C.S., for the Corporation.	D. F. S.	89
.. (West Marina)	50 51	0 32 "	—	T. Eldridge, for the Corpo- ration.	G.	89
St. Peter Port, Guernsey ..	49 32	2 32 W.	222	F. E. Carey, M.D. ..	S.	
Salcombe, Devon ..	50 14	3 46 "	—	Coastguard ..	W.	
Sandgate, Kent ..	51 4	1 9 E.	56	A. Robert Bowles, C.E.	R.	91
Scarborough ..	54 18	0 24 W.	219	E. W. Ellerbeck and W.W. Larkin, for the Corpora- tion.	D. F. S.	87
Scarborough ..	54 17	0 23 "	—	Coastguard ..	W.	
Schull ..	51 32	9 32 "	—	Coastguard ..	G.	
Scilly Islands, St. Mary's ..	49 56	6 18 "	65	A. Hicks ..	B. S. T. W.	81, 82
Seafield, Co. Clare ..	52 48	9 30 "	—	Coastguard ..	W.	
Seaham Harbour ..	54 50	1 19 "	148	G. H. Aird ..	D.	87
Seven Stones Lightship ..	50 4	6 5 "	—	Light-keepers ..	W.	
Shaftesbury ..	51 1	2 12 "	722	Miss L. H. Harris ..	F.	
Shambles Lightship ..	50 31	2 20 "	—	Light-keepers ..	W.	
Sheffield ..	53 23	1 29 "	429	E. Howarth, F.R.A.S. ..	D. S.	88
Sheephaven (Dunfanaghy) ..	55 11	7 58 "	—	Coastguard ..	W.	
Shields, North ..	55 0	1 27 "	99	W. B. Clark ..	T.	100
Shields, North, High Light- house.	55 0	1 27 "	—	T. Robson ..	B.	97
Shipwash Lightship ..	52 2	1 38 E.	—	Light-keepers ..	W.	
Shirley (Birmingham) ..	52 25	1 49 W.	460	B. Boothroyd ..	F.	81
Skipton ..	53 58	2 9 "	567	W. Farrer ..	G.	82
Solway Lightship ..	54 48	3 32 "	—	Light-keepers ..	W.	
Southampton ..	50 55	1 24 "	78	J. T. Cook, for Dir. Gen. of Ordnance Survey.	D. F. S.	
Southport ..	53 39	2 59 "	37	J. Baxendell, for the Cor- poration.	S.	
South Rock Lightship ..	54 25	5 22 "	—	Light-keepers ..	W.	
Spiddal, Co. Galway ..	53 15	9 17 "	—	Coastguard ..	G.	
Spurn Head ..	53 34	0 7 E.	26	A. S. Badcock ..	T.	87
Spurn Lightship ..	53 34	0 13 "	—	Light-keepers ..	W.	
Stokesay (Craven Arms) ..	52 26	2 52 W.	370	Rev. W. M. D. La Touche ..	D.	
Stonyhurst College ..	53 51	2 28 "	375	Rev. W. Sidgreaves ..	A. D. F.	92, 93
Stornoway ..	58 11	6 22 "	29	J. Mackenzie ..	T. S. C.	78
Stranraer ..	54 54	5 2 "	—	Coastguard ..	W.	
Stratheffer-Spa, N.B. ..	57 37	4 28 "	253	J. Tregelles Fox, M.D. ..	D. S.	78
Sumburgh Head (Shet- lands).	59 51	1 17 "	126	Rev. W. Brand ..	T. C.	
Sunderland ..	54 54	1 23 "	—	Coastguard ..	W.	
Symbister, Shetlands ..	60 14	1 25 "	—	J. S. Nicolson ..	G.	
Syston, Leicester ..	52 43	1 5 "	178	S. K. Daniels ..	R.	
Tealby, Lincolnshire ..	53 24	0 16 "	251	Rev. S. Lewin, B.A. ..	D.	
Feealin, Co. Donegal ..	54 38	8 39 "	—	Coastguard ..	W.	
Temple Bruer, Lincolnshire ..	53 4	0 30 "	—	Miss G. Morley ..	R.	87
Tenby ..	51 41	4 42 "	79	R. J. Truscott, for the Cor- poration.	D. S.	75
Thurcaston (Leicester) ..	52 42	1 10 "	253	Rev. T. A. Preston, M.A. ..	S.	
Tixover Hall ..	52 35	0 33 "	129	Capt. H. E. Hotham ..	R.	88
Torquay ..	50 28	3 31 "	286	A. Chandler, for the Cor- poration.	S.	
Totland Bay, Isle of Wight	50 41	1 33 "	84	J. Dover, M.A. ..	G.	80
Union Hall, Co. Cork ..	51 35	9 8 "	—	Coastguard ..	G.	
Uzon (Montrose) ..	56 4	2 28 "	—	Coastguard ..	W.	
Valencia Observatory, Ca- hireeveen.	51 56	10 15 "	30	J. E. Cullum ..	A. T. C.	74, 93
.. Island, Glanleam ..	51 56	10 20 "	—	Miss E. Fitzgerald ..	R.	
.. Knightsstown ..	51 55	10 20 "	—	Coastguard ..	G.	
Ventnor ..	50 36	1 13 "	80	Miss M. Gibson ..	S.	

Appendix III.—List of Stations.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Information supplied.	Page where Inspec- tor's Report for 1889 will be found.
* Wakefield	53° 41'	1° 30' W.	96	A. Clyde ..	E.	
Waterford	52° 16'	7° 7'	—	Harbour Authorities ..	C.	
Watergate (Emsworth) ..	50° 56'	0° 55' "	236	W. M. Christy ..	R. S.	
Wealdstone	51° 37'	0° 20' "	179	G. E. Eland ..	R.	
Wessington Court (Wool- hope).	52° 1'	2° 35' "	—	S. Lomas, for Miss L. Grafton.	D.	
Westbourne, Sussex.. ..	50° 52'	0° 55' "	30	Rev. L. B. Birkett ..	S.	90
Westray, Orkney	59° 17'	3° 0'	—	Capt. J. Hewison ..	G.	
* Whitechurch, Devon.. ..	50° 32'	4° 6'	593	E. E. Glyde ..	E.	
Wick	58° 27'	3° 6' "	80	J. Sinclair ..	T.	78
..	58° 27'	3° 6' "	—	Coastguard ..	W.	
* Wolfelee	55° 23'	2° 39' "	587	W. Gordon ..	D.	
* Woolacombe, Devon	51° 10'	4° 12' "	59	E. Henshall, C.E. ..	D.	
Worksop	53° 22'	1° 5' "	56	H. Mellish ..	S.	
Worthing	50° 49'	0° 22' "	38	C. Kelly, M.D., for the Cor- poration.	S.	90
Yarmouth, Norfolk	52° 37'	1° 43' E.	10	G. T. Watson ..	B. T. C.	98, 100
Yarmouth, Isle of Wight	50° 42'	1° 29' W.	—	Coastguard ..	G.	
Ynis-y-bro (Newport)	51° 38'	3° 3' "	115	C. Cullum ..	R.	
York, Bootham	53° 57'	1° 5' "	105	H. Richardson ..	S.	
" The Museum	53° 57'	1° 5' "	56	H. M. Platnauer, B.Sc. ..	D. T.	

In addition to those already mentioned, reports are received daily from the following Continental Stations.

Station.	Authority.	Station.	Authority.
Haparanda	{ Meteorological	*The Helder	
Hernösand	Office, Stock- holm.	Brussels	
*Stockholm		Cape Gris Nez	
Wisby		*Brest (St. Mathieu) ..	
Karlstad		Lorient (Ile de Groix) ..	
Bodö	{ Meteorological	*Rochefort (Ile d'Aix) ..	Bureau Central Météorologique, Paris.
*Christiansund	Institute,	*Biarritz	
*Skudenesnaes	Christiania.	*Paris	
Færder		Belfort	
*The Scaw	{ Meteorological	Lyons	
Fanø	Institute,	Nice	
Cuxhaven..	Copenhagen.	Perpignan	
	Deutsche See- warte, Ham- burg.	Berlin	{ Cent. Met. Inst. of Germany.
		Wiesbaden	
		Munich	
		Coruña	{ Observatory, Lisbon.
		*Lisbon	
		Azores (P. Delgada)	

Note.—The stations marked with an asterisk (*) report also at 2h. p.m., and those with dagger (†) at 6h. p.m.: Lisbon reports at 4h. p.m. instead of 6h. p.m.

The Helder does not send reports at 6 p.m. on Sundays.

LIST OF BRITISH STATIONS ARRANGED UNDER COUNTIES.

County.	Station.	County.	Station.
England :—		England—cont.	
Bedford ...	Aspley Guise. Ridgmount.	Kent ...	Rede Court. Sandgate.
Berkshire ...	Maidenhead.	Lancashire ...	Blackpool. Bolton.
Buckingham ...			Darwen.
Cambridge ...	Cambridge.		Fleetwood.
Cheshire ...	Bidston. Chester. Hoyle.		Heysham. Lytham.
Cornwall ...	Falmouth. Newquay. Scilly.		Manchester. Prestwich.
Cumberland ...	Newton Reigny. Buxton.		St. Helens. Southport.
Derby ...	Arlington. Cullompton.		Stonyhurst.
Devon ...	Plymouth. Prawle Point. Rousdon. Salecombe. Torquay. Whitchurch.	Leicester ...	Belvoir Castle. Loughborough. Syston. Thurcaston.
Dorset ...	Woolacombe. Parkstone. Portland Bill.	Lincoln ...	Fulbeck. Market Rasen.
Durham ...	Shaftesbury.		Tealby.
	Durham. Seaham.	Middlesex ...	Temple Bruer. London : City. Hampstead. Pall Mall. Westminster.
Essex ...	Sunderland.	Monmouth ...	Wealdstone. Newport.
Gloucester ...	Cheltenham. Cirencester. Clifton. Dursley. Hideote.	Norfolk ...	Pant-y-reos. Ynis-y-bro. East Dereham. Gelderton. Hillington. Yarmouth.
Hampshire ...	Bournemouth. Haslar. Hurst Castle. Pennington. Southampton. Totland Bay. Ventnor.	Northampton ...	Colly Weston. Duddington. Alnwick Castle. Morpeth. Newcastle-on-Tyne.
Hereford ...	Yarmouth. Hereford. Wessington Court.	Nottingham ...	North Shields. Hesley Hall.
Hertford ...	Bennington. Berkhamsted. Rothamsted.	Oxford ...	Worksop. Burford. Churchill. Oxford.
Huntingdon ...	—	Rutland ..	Ketton Hall. Do. Vicarage.
Kent ...	Chatham. Dover. Dungeness. Kearsney. Littlestone-on-Sea. Margate. Plumstead.	Shropshire ...	Ridlington. Tixover Hall Stokesay.
		Somerset ...	—
		Stafford ...	Cheadle.
		Suffolk ...	Felixstowe. Gorleston.

Appendix XIII.—List of Stations.

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County.	Station.	County.	Station.
England—cont.		Islands :—	
Suffolk ...	Hollesley Bay. Lowestoft.	Isle of Man ...	Cronbourne.
Surrey ...	Bramley. Brixton. Cooper's Hill. Cranleigh. Kew. Norwood. Peper Harow.	Jersey ...	St. Aubin's. St. Heliers.
Sussex ...	Bognor. Brighton. Cuckfield. Eastbourne. Forest Row. St. Leonards. Do. West Marina. Watergate Park. Westbourne. Worthing.	Guernsey ...	St. Peter Port.
Warwick ...	Edgbaston. Rugby. Shirley.	Scotland :—	
Westmoreland ...	—	Aberdeen ...	Aberdeen.
Wiltshire ...	—	Argyll ...	Braemar. Pennant Bay. Laudale.
Worcester ...	Rochford.	Ayr ...	Poltalloch. Ballantrae. Pinmore.
Yorkshire ...	Ampleforth. Aysgarth. Hawes. Northallerton. Oswaldkirk. Rounton. Scarborough. Sheffield. Skipton. Spurn Head. Wakefield. York.	Banff ...	Gordon Castle. Burnmouth. Marchmont.
		Berwick ...	Lamlash. Rothesay. Wick.
		Bute ...	Cromarty. Strathpeffer Spa.
		Caithness ...	Dumbarton ...
		Clackmannan ...	Dumfries ...
		Cromarty ...	Edinburgh.
		Dundee ...	Leith. Rosewell.
		Fife ...	Elgin ...
		Forfar ...	Burntisland. Dundee. Lednathie. Uzon.
		Haddington ...	Inverness ...
		Kincardine ...	Ben Nevis. Fort Augustus. Fort William. Cove Bay.
		Kinross ...	Cargen. Glenlee.
		Kirkcudbright ...	Glasgow.
		Lanark ...	—
		Linlithgow ...	Nairn.
		Nairn ...	Deerness.
		Orkney ...	Kirkwall. Westray.
		Peebles ...	—
		Perth ...	Forgandenny. Ochtertyre.
		Renfrew ...	—
		Ross ...	Ardross Castle. Glencarron. Stornoway.
		Roxburgh ...	Ladylaw. Wolflees.
		Selkirk ...	—
		Shetlands ...	Lerwick. Sumburgh Head. Synister.

County.	Station.	County.	Station.
Scotland—cont.		Ireland—cont.	
Stirling ...	—	Dublin ...	Glasnevin Killiney.
Sutherland ...	Dunrobin Castle, Lairg.	Fermanagh ...	Arran. Cleggan. Recess. Spiddal.
Wigton ...	Stranraer.	Galway ...	Killarney. Minard. Valencia. Do. Glanleam. Do. Knightstown.
Ireland :—		Kerry ...	—
Antrim ...	Belfast. Portrush.	Kildare ...	Kilkenny.
Armagh ...	Armagh.	Kilkenny ...	Birr Castle.
Carlow ...	—	King's Co.	Carrigallen.
Cavan ...	—	Leitrim ...	Adare.
Clare ...	Ennis. Ennistymon. Hurdlestow.	Limerick ...	Foynes. Limerick. Roxborough.
	Kilcredane. Lahinch. Liscanor.	Londonerry ...	Londonerry
	Mount Callan.	Longford ...	Currygrane
	Newmarket-on-	Louth ...	—
	Fergus.	Mayo ...	Ballyglass. Belmullet.
	Quin.	Meath ...	Black sod Point. Mallaranny.
Cork ...	Seafield. Ballydonegan. Baltimore.	Monaghan ...	—
	Castletownshend.	Queen's Co. ...	—
	Crookhaven.	Roscommon ...	—
	Crosshaven.	Sligo ...	Markree Castle.
	Doneraile.	Tipperary ...	—
	Roches Point.	Tyrone ...	Lissan. Omagh
	Schull.	Waterford ...	Waterford.
	Union Hall.	Westmeath ...	—
Donegal ...	Malin Head. Sheep Haven.	Wexford ...	—
	Teelin.	Wicklow ...	Bray. Newcastle.
Down ...	Donaghadee.		
Dublin ...	Dublin (City). Do. (Mountjoy Barracks).		

(REPORT OF METEOROLOGICAL COUNCIL 1899-1900)

MAP SHOWING THE APPROXIMATE POSITIONS OF THE STATIONS FROM WHICH OBSERVATIONS HAVE BEEN RECEIVED.



Confidential.

R E P O R T

OF THE

METEOROLOGICAL COUNCIL,

For the Year ending 31st of March, 1901,

TO THE

PRESIDENT AND COUNCIL

OF THE

ROYAL SOCIETY.



LONDON:
PRINTED FOR HIS MAJESTY'S STATIONERY OFFICE
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1901.

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(REPORT OF METEOROLOGICAL COUNCIL 1900-1901.)

MAP SHOWING THE APPROXIMATE POSITIONS OF THE STATIONS FROM WHICH OBSERVATIONS HAVE BEEN RECEIVED.



For details of Information Received. — See Appendix II.

E. Waller & Grahams Ltd. Litho. London.

Appendix II.—Supply of Information to the Public. 55**LIST OF STATIONS** in the BRITISH ISLANDS from which INFORMATION has been received at the METEOROLOGICAL OFFICE during the Year ended March 31st, 1901.

The Stations marked "S" are in connexion with the Scottish Meteorological Society, and those marked "R" are in connexion with the Royal Meteorological Society.

Where necessary the name of the nearest well-known village or town has been inserted within brackets following the name of the station.

The nature of the information received from each station is indicated by letters in the sixth column, as follows:—

- A.—Continuous records 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.)
- B.—Continuous record of the direction and velocity (or force) of the wind. (Anemographic Stations.)
- C.—Continuous record of pressure. (Barographic Stations.)
- D.—Monthly sheets, containing the regular observations at 9 a.m. and 9 p.m. each day, local time, of pressure, temperature (dry bulb and wet bulb), wind, cloud, and weather, with the daily maximum and minimum of temperature, the daily rainfall, and general remarks on the weather. (Second Order Stations.)
- E.—Monthly means and summaries of observations taken at 9 a.m. and 9 p.m. each day as above. (Second Order Stations.)
- F.—The maximum and minimum temperature, and the rainfall for each day, with remarks on the weather. This information is received in the Meteorological Office each week for use in the "Weekly Weather Report."
- G.—Observations of the same kind as at Second Order Stations, but either—(a) less full, (b) taken only once daily, (c) taken at hours other than 9 a.m. and 9 p.m. (Third Order Stations.)
- H.—Monthly sheets containing the daily observations of the amount of rainfall, with remarks on the weather. (Third Order Stations.)
- S.—Continuous record of bright sunshine. (Sunshine Stations.)
- T.—Regular observations at 8 a.m. and 6 p.m. G.M.T. (and from some stations at 2 p.m. in addition), of pressure, temperature, wind and weather, with the daily maximum and minimum of temperature, the daily rainfall, and, where possible, the sea disturbance at 8 a.m. each day, and the daily amount of bright sunshine. This information is received each day by telegraph, for use in the "Daily Weather Report" and in the "Weekly Weather Report." (Telegraphic Stations.)
- W.—Daily observations of the temperature of the sea water. (Sea Temperature Stations.)

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Year of last Inspec- tion.
Aberdeen Observatory ..	57 10	2 6 W.	46	Prof. C. Niven, F.R.S. ..	A. T. C	00
Cove Bay ..	57 9	2 5 "	—	Coastguard	W.	—
Aberdovey ..	52 33	4 4 "	—	John Edwards	S.	—
Adare ..	52 33	8 47 "	—	W. Bowles	R.	—
Alnwick Castle ..	55 25	1 43 "	210	Humphry Willyams, for the Duke of Northum- berland.	B. F.	00
Ampleforth	54 12	1 5 "	349	Rev. J. B. McLaughlin, B.A., O.S.B. ..	D.	00
Ardross Castle, N.B. ..	57 45	4 21 "	449	W. Minty	R.	—
Arlington Court (Barnstaple) ..	51 8	3 58 "	613	Lady Chichester	F.	99
Armagh Observatory ..	51 21	6 39 "	196	J. L. E. Dreyer, Ph.D. ..	B.D.F.S.	00
Arran, North, Galway ..	53 6	9 40 "	—	Coastguard	G. W.	—
Aspatria ..	54 46	3 21 "	250	J. Smith Hill, B.Sc. ..	D.	—
Aspley Guise, Beds. ..	52 1	0 38 "	410	E. E. Dymond	S.	—
Aysgarth, Yorks. ..	54 18	1 58 "	646	Rev. F. W. Stow, M.A. ..	D.	99
Bahama Bank Lightship ..	54 20	4 13 "	—	Light-keepers	W.	—
Ballantrae, Ayrshire ..	55 6	5 0 "	—	Coastguard	W.	—
Ballydonegan, Co. Cork ..	51 38	10 3 "	—	"	W.	—
Ballyglass, Co. Mayo ..	54 17	9 52 "	—	"	W.	—
Baltimore, Co. Cork ..	51 28	9 22 "	—	"	G.	90
Bath	51 23	2 21 "	—	W. H. Symons, M.D., for the Corporation.	T.S.	—
Belfast, Queen's College ..	54 35	5 56 "	61	John Wylie	D.	00
Belvoir Castle (Grantham) ..	52 54	0 47 "	259	W. H. Divers, for the Duke of Rutland.	D.	00
Ben Nevis	56 48	5 0 "	4,405	A. Rankin, for Directors Ben Nevis Observatory.	A. E.	—
Bennington, Herts. ..	51 54	0 5 "	407	Rev. J. D. Parker, LL.D. ..	E.	00
Berkhamsted	51 46	0 34 "	400	E. Mawley, F.R. Met. Soc. ..	E.	00
Bettws-y-Coed	53 6	3 48 "	628	Col. Wynne Finch	R.	—
Bexhill	50 51	0 28 E.	—	A. J. Brook	R.	—
Bidston Observatory (Liver- pool). ..	53 24	3 4 W.	188	W. E. Plummer, F.R.A.S. ..	D. T.	99
Birr Castle (Parsonstown) ..	53 6	7 55 "	175	J. L. Roe and T. Colvin, for the Earl of Rosse.	D. S. T.	00
Blackpool	53 48	3 3 "	62	A. J. Anderson, M.A., M.B., for the Corporation.	F. S.	00
Blacksod Point, Co. Mayo. ..	54 6	10 4 "	37	A. Marshall	W. T.	00
Bognor	50 47	0 40 "	—	H. C. L. Morris, M.D., for the Corporation.	S.	—
Bolton	50 47	0 40 "	—	A. G. Thompson	G.	—
Bolton	53 35	2 27 "	389	W. W. Madley, for the Corporation.	G.	—
Bournemouth	50 43	1 53 "	—	C. Dales, for Town Council.	S.	00
Braemar	57 0	3 24 "	1,111	J. Aitken, J.P.	D. F. S.	00
Bramley, Surrey	51 11	0 33 "	148	J. Bartlett, M.A.	D.	00
Bray, Co. Wicklow	53 12	6 6 "	—	Coastguard	G.	—
Brighton	50 49	0 8 "	65	A. Newsholme, M.D., for the Corporation.	S.	96
Broadstairs	51 21	1 26 E.	—	L. A. Skinner, for the Dis- trict Council.	S.	—
Burnmouth (Ayton, Berwick) ..	55 51	2 4 W.	—	Coastguard	W.	—
Burntisland	56 4	3 14 "	—	Coastguard	W.	—
Buxton	53 14	1 54 "	987	W. Pilkington	E.	99
Caernarvon Bay Lightship ..	53 6	4 45 "	—	Light-keepers	W.	—
Cambridge	52 13	0 6 E.	88	Miss A. Walker, for Sir Robt. Ball, F.R.S. ..	S. D.	98
Cardigan Bay Lightship ..	52 25	5 1 W.	—	Light-keepers	W.	—
Cargin	55 2	3 37 "	72	A. Peacock	E.	96
Carrigallen, Co. Leitrim ..	53 58	7 38 "	350?	Mrs. J. Godley and Miss Morrow.	R.	—
Chatham	51 23	0 32 E.	136	The Instructor in Survey- ing.	G.	99
Chatsworth	53 14	1 37 W.	—	The Duke of Devonshire, K.G.	C.G.	—
Cheadle	52 58	1 57 "	646	J. C. Philips	E. F.	99
Cheltenham	51 54	2 3 "	184	R. Tyre, B.A.	E.	98
Chester (Hawarden Bridge) ..	53 12	3 1 "	—	F. B. Summers	F.	—
Churchill, Oxon	51 56	1 34 "	500	Giles Edmonds	R.	96

Appendix II.—Supply of Information to the Public.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Year of last Inspec- tion.
Churchstoke	52 31	3 5 W.	538	P. Wright, F.C.S. ..	D. F. S.	98
Cirencester	51 43	1 57 ..	446	Prof. G. T. Locke, M.A. ..	F. S.	00
Clacton-on-Sea	51 48	1 9 E.	—	A. W. Shadick, for the Town Council.	T.S.	—
Cleggan, Co. Galway	53 33	10 8 W.	—	Coastguard ..	W.	—
Clifton	51 27	2 37 ..	230	D. Rinton, M.A. ..	F.	90
Colly Weston	52 37	0 31 ..	280	Miss A. Tasker ..	F.	00
Colwyn Bay	53 17	3 43 ..	—	R. E. Lord, M.D., B.Sc. ..	S.	97
Coningbeg Lightship	52 2	6 40 ..	—	Light-keepers ..	W.	—
Cooper's Hill (Egham)	51 26	0 34 ..	279	Prot. H. McLeod, F.R.S. ..	G.	98
Cranleigh	51 8	0 29 ..	232	Rev. G. C. Allen ..	F.	—
Cromarty	57 41	4 0 ..	—	Coastguard ..	W.	—
Cronkbourne (Douglas)	51 10	4 29 ..	137	A. W. Moore, M.A. ..	D. F. S.	99
Crookhaven	51 23	9 43 ..	—	Coastguard ..	G.	90
Croshaven	51 48	8 18 ..	—	Coastguard ..	G.	90
Cuckfield, Sussex	51 1	0 3 ..	389	John Howe ..	R.	97
Cullompton	50 51	3 23 ..	202	T. Turner, J.P. ..	F. S.	00
Darwen, Lancashire	53 41	2 28 ..	710	G. Mainland, for the Cor- poration.	S.	00
Deerness, Orkney Islands	58 56	2 45 ..	169	M. Spence ..	B. D. S.	00
Dissert (Llandrindod)	52 13	3 24 ..	711	Rev. J. Le Herbert ..	R.	00
Donaghadee	54 38	5 32 ..	40	J. Conolly ..	T.	00
Doneraile, Co. Cork	52 13	8 34 ..	266	Capt. J. W. Evans, J.P. ..	R.	—
Dover	51 7	1 18 E.	198	H. E. Stilgoe, C.E. ..	R.	98
Dublin, Botanic Gardens	53 23	6 16 W.	67	F. W. Moore, M.R.I.A. ..	D.	00
" City	53 20	6 15 ..	47	Sir J. W. Moore, M.D. ..	D. F.	00
" Phoenix Park	53 22	6 21 ..	155	Major Haynes, R.E. ..	B. D. S.	00
Dundee	56 28	2 56 ..	160	J. Carnochan ..	D. S.	00
Dungeness	50 55	0 58 E.	26	W. H. Taylor ..	T.	00
Dunrobin Castle	57 59	3 56 W.	12	D. Melville, for the Duke of Sutherland.	D.	00
Durham	54 46	1 35 ..	336	Prof. R. A. Sampson, M.A. ..	D. F. S.	00
Dursley, Glos.	51 41	2 21 ..	250	R. W. Pinney ..	R.	96
Eastbourne	50 46	0 17 E.	39	R. Sheward, for the Corpor- ation.	D. S.	00
East Goodwin Lightship	51 13	1 36 ..	—	Light-keepers ..	W.	—
East Dereham	52 41	0 57 ..	158	G. H. H. Cooper ..	R.	—
Edgbaston (Birmingham)	52 28	1 56 W.	534	Alf. Cresswell ..	D. F. S.	00
Edinburgh	56 57	3 12 ..	253	R. C. Mossman, F.R.S.E. ..	D. S.	00
English and Welsh Grounds	51 27	3 0 ..	—	Light-keepers ..	W.	—
Lighth.						
Ennis, Co. Clare	52 51	8 59 ..	38	Miss A. L. Scott ..	R.	—
Ennistymon, Co. Clare	52 57	9 17 ..	131	Rev. C. W. McDowell, M.A. ..	R.	—
Falmouth	50 9	5 4 ..	167	E. Kitto ..	A. F.	00
Felixstowe	51 58	1 22 E.	76	Rev. J. G. Munday, M.A. ..	F. S.	00
Fleetwood	53 56	3 1 W.	—	M. S. Gaulter ..	B.	00
Forgandenny, Perth	56 31	3 29 ..	175	C. L. Wood ..	C.	—
Forest Row, Sussex	51 7	0 2 E.	619	Rt. Hon. J. Bryce, D.C.L., M.P.	R.	—
Fort Augustus	57 8	4 40 W.	68	Rev. C. von Dieckhoff ..	E. F. S.	99
Fort William	56 49	5 7 ..	31	A. Rankin, for Directors, Ben Nevis Observatory.	A. F.	00
Foynes, Co. Limerick	52 37	9 7 ..	108	W. H. Ward, for Lord Monteagle.	F.	95
Fulbeck, Lincolnshire	53 3	0 37 ..	185	Rev. V. F. Willson, M.A. ..	C. D	00
Geldeston (Beccles)	52 38	1 31 E.	37	E. T. Dowson ..	D. F. S.	99
Glasgow	55 53	4 18 W.	180	Prof. L. Becker, Ph.D. ..	A. D. F.	00
Glenarm	51 58	5 56 ..	—	Coastguard ..	G.	—
Glenarron	57 30	5 14 ..	489	D. D. Munro ..	E. F.	00
Glenlee	55 5	4 12 ..	203	W. Melville ..	E. F.	96
Gordon Castle	57 37	3 5 ..	101	C. Webster, for the Duke of Richmond and Gordon, K.G.	E.	00
Gorleston (Gt. Yarmouth)	52 35	1 43 E.	—	J. G. Bammant ..	G.	—
Haslar Hospital	50 47	1 7 W.	—	C. Seaman ..	G.	—

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Year of last Inspec- tion.
Hastings, St. Helen's Cres. " Waterworks ..	50 51	0 34 E.	149	Rev. H. H. Breton, M.A. -- — Farnham, for the Cor- poration.	R. S.	00 00
Hesley Hall (Bawtry) ..	53 27	1 4 W.	85	B. L. Whitaker, J.P. ..	F.	99
Hereford ..	52 5	2 45 "	291	Rev. T. B. Barrington ..	F.	98
Hidcote (Campden), Glos..	52 5	1 46 "	524	Major W. Wright, R.A. ..	R.	97
Hillington ..	52 48	0 33 E.	88	Rev. H. F. B. Folkes, M.A. ..	D. F. S.	99
Hollesley Bay, Suffolk ..	52 3	1 27 "	38	Prof. C. G. Freer Thon- ger, F.C.S.	D. S.	99
Holyhead, Harbour Office..	53 18	4 39 W.	57	F. M. Cotton, C.E. ..	B. W.	00
Sailors' Home ..	53 18	4 39 "	48	T. Chope ..	T.	00
Hoyle, Cheshire ..	53 23	3 12 "	—	L. G. Dashper ..	S.	—
Hurdlestown (Broadford), Co. Clare. ..	52 48	8 38 "	157	Lieut.-Col. W. O. Bentley, R.A.	R.	—
Kearsney Abbey (Dover) ..	51 8	1 17 E.	100	C. W. Curtis ..	R.	96
Chilton Farm ..	51 8	1 17 "	135	H. E. Stilgoe, C.E. ..	R.	—
Ketton Vicarage ..	52 38	0 32 W.	109	Rev. A. Swire ..	R.	99
Kew Observatory ..	51 28	0 19 "	18	C. Chree, D.Sc., F.R.S. ..	A.	00
Kilcredane, Co. Clare ..	52 35	9 47 "	—	Coastguard ..	W.	—
Kilkenny	52 39	7 14 "	212	H. Carlton, for the Marquis of Ormonde.	C. F.	99
Killarney	52 4	9 30 "	174	E. H. Griffin, M.D. ..	G. F.	—
Killiney, Co. Dublin ..	53 16	6 7 "	249	R. O'Brien Furlong, C.E. ..	R.	85
Kingstown	53 17	6 8 "	—	H.M. Office of Works ..	B.	00
"	53 17	6 8 "	—	J. B. Power, for the Dist. Council.	G. S.	00
Kirkwall	58 59	2 57 "	—	Coastguard ..	W.	—
Kish Bank Lightship ..	53 19	5 55 "	—	Light-keepers ..	W.	—
Lahinch, Co. Clare ..	52 55	9 21 "	52	Miss I. F. K. Bowes ..	R.	99
Laing	58 1	4 22 "	335	Rev. D. Macrae ..	E. F.	00
Lamlash, Isle of Arran ..	55 32	5 8 "	—	Coastguard ..	G. W.	—
Laudale, Argyllshire ..	56 41	5 41 "	14	A. Fletcher, for T. H. G. Newton, M.A. ..	D. F.	98
Leednathie	56 45	3 7 "	719	W. Morrison, for P. Stor- mouth Darling.	E.	00
Leith	55 58	3 10 "	19	T. Richardson ..	T.	00
Leman and Ower Lightship ..	53 8	2 2 E.	—	Light-keepers ..	W.	—
Lerwick	60 9	1 8 W.	—	Coastguard ..	W.	—
Limerick	52 39	8 36 "	—	A. W. Shaw ..	R.	95
Liscannor, Co. Clare ..	52 56	9 23 "	—	Coastguard ..	W.	—
Lissan, Co. Tyrone ..	54 41	6 45 "	300	W. Walsh, for H. T. Tubbs ..	E.	98
Littlestone-on-Sea ..	50 59	0 59 E.	—	John Owens ..	G. S.	00
Llandinam, Montgomery ..	52 29	3 26 W.	500	J. Watkins ..	R.	—
Llandovery	51 59	3 48 "	217	Wm. Little, for Town ..	F.	00
Llandudno	53 21	3 50 "	72	Council.	E. F. S.	99
London, Brixton	51 27	0 8 "	77	F. Gaster ..	T.	—
" City	51 31	0 5 "	80	Messrs. De La Rue ..	S.	—
" Hampstead	51 34	0 10 "	—	H. R. Beeton ..	C.	—
" Pall Mall	51 30	0 7 "	—	Athenaeum Club ..	C.	—
" Westminster	51 30	0 8 "	76	The Staff of the Met. Office ..	C. G.	—
" Westminster	51 30	0 8 "	—	H. A. Reatchous, M.A. ..	S.	—
Training College.	—	—	—	—	—	—
Londonderry	55 0	7 19 "	87	J. Conroy ..	F.	00
Loughborough	52 47	1 12 "	146	W. Berridge ..	T.	98
Lowestoft	52 29	1 44 E.	—	G. J. Heppell ..	G.	—
Lowestoft	52 29	1 44 "	84	J. E. O'Connor, M.B., for the Corporation.	E.S.	99
Lytham	53 44	2 58 W.	21	J. C. Fisher, M.A., M.B., for the Corporation.	D. S.	00
Machrihanish	55 25	5 45 "	16	J. Franklin Adams ..	G.	95
Maidenhead	51 30	0 43 "	99	G. H. Palmer ..	G.	99
Malin Head, Co. Donegal ..	55 23	7 24 "	230	A. Cox ..	T. C.	00
Mallaranny	53 55	9 40 "	119	Miss M. Kilshy ..	R.	—
Manchester, Oldham Rd. ..	53 29	2 13 "	190	J. Niven, M.A., M.B., for the Corporation.	D.	00
Whitworth Park	53 28	2 14 "	125	Prof. Schuster, F.R.S., D.Sc. ..	D.	00
Marchmont	55 44	2 25 "	498	J. A. Wood ..	E. F. S.	98
Mareham-le-Fen	53 8	0 5 "	33	Mrs. G. L. Kime ..	R.	—

Appendix II.—Supply of Information to the Public.

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Station	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Year of last Inspec- tion.
M Margate ..	51 24	1 24 E.	83	J. Stokes, J.P.,	S.	00
Markree Castle, Co. Sligo ..	54 11	8 27 W.	122	F. W. Henkel, B.A., for Col. Cooper.	D. F. S.	00
Minard, Co. Kerry ..	52 7	10 8 "	—	Constguard ..	W.	—
Morpeth ..	55 13	1 41 "	324	W. H. Hogg ..	D. S.	00
Mount Callan (Inagh), Co. Clare.	52 53	9 16 "	479	Lt.-Col. Tottenham ..	R.	98
Nairn ..	57 36	3 52 E.	82	Miss Penny ..	T.	00
Newarp Lightship ..	52 45	1 53 E.	—	Light-keepers ..	W.	—
Newcastle, Co. Wicklow ..	53 5	6 6 W.	256	B. H. Steede, M.D., ..	D.	00
Newcastle-on-Tyne ..	54 5	1 36 "	152	N. H. Martin, F.C.S., ..	G. S.	99
Newchurch ..	51 41	2 48 "	—	C. Cullum ..	R.	—
Newmarket-on-Fergus ..	52 46	8 53 "	—	W. W. Fitzgerald ..	R.	98
Newport, Monmouth ..	51 35	3 0 "	—	C. Cullum ..	R.	00
Newton Hall ..	54 57	1 54 "	524	Rev. J. Seymour St. John	R.	—
Newquay, Cornwall ..	50 25	5 4 "	250?	A. Hardwick, M.D., for the Town Council.	S.	00
Newton Reigny (Penrith) ..	50 25	5 5 "	—	Coastguard ..	W.	—
Northallerton ..	51 41	2 48 "	579	T. G. Benn ..	T. S.	00
North-West Lightship ..	51 20	1 26 "	129	W. Stead, C.E., ..	R.	95
N Norwood ..	51 26	0 6 "	220	Light-keepers ..	W.	—
O Ochtertyre ..	56 23	3 53 "	329	W. Marriott ..	E.	—
Omagh (Edenfel) ..	54 36	7 19 "	300	G. Croucher, for Sir P. K. Murray, Bt.	E. F.	99
Oswaldkirk, Yorkshire ..	54 12	1 3 "	510	Col. Buchanan, C.B., ..	F.	00
Outer Dowding Lightship ..	53 27	1 5 E.	—	R. Thompson ..	S.	96
Owers Lightship ..	50 39	0 41 W.	—	Light-keepers ..	W.	—
Oxford ..	51 46	1 16 "	208	A. A. Rambaut, M.A., ..	T. S.	00
P Pant-y-reos ..	51 38	3 4 "	449	C. Cullum ..	R.	00
Parkstone, Dorset ..	50 43	1 56 "	197	R. H. Barnes, B.A., ..	D.	00
Penbedw (Mold) ..	53 12	3 11 "	650	H. W. Buddicom ..	C.	—
Pennant Bay (Aberdour) ..	57 40	2 16 "	—	Coastguard ..	W.	—
Pennington ..	50 46	1 35 "	—	Miss H. Fullerton ..	R.	—
Penrhyn Quarry ..	53 19	4 6 "	—	H. P. Meares ..	R.	—
Peper Harow ..	51 11	0 40 "	199	John Warner ..	R.	—
P Pinmore (Girvan) ..	55 12	4 49 "	187	P. Donald, for Capt. Hamilton.	E.	99
Plymouth, The Hoe ..	50 22	4 8 "	116	H. Victor Prigg, C.E., for the Corporation.	D. F. S.	00
P Poltalloch ..	56 8	5 30 "	132	D. S. Melville, for Lord Malcolm.	E.	00
Portland Bill ..	50 32	2 27 "	177	C. Smith ..	T.	00
Portrush ..	55 13	6 40 "	—	Coastguard ..	W.	—
Port Talbot ..	51 34	3 45 "	—	R. Milner, for Miss Talbot	S.	00
Prestwich (Manchester) ..	53 32	2 17 "	320	T. R. H. Dunn, M.D., ..	D. F. S.	99
R Ranceby Hall ..	53 0	0 29 "	125	General M. Willson ..	G.	—
Recess, Co. Galway ..	53 28	9 44 "	90	A. A. Smith ..	R.	—
Rhyl ..	53 19	3 29 "	—	A. A. Goodall, for Dist. Council.	S.	—
Ridgmont ..	52 1	0 36 "	291	H. M. Freer ..	D.	98
Ridlington ..	52 37	0 45 "	522	W. W. Wortley ..	R.	—
Roche's Point, Co. Cork ..	51 47	8 15 "	42	W. Kennedy ..	T.	00
Rochford (Tenbury) ..	52 18	2 36 "	316	Rev. John Tomson ..	C. R.	96
R Rosewell ..	55 51	3 7 "	690	R. B. Mitchell, M.D., ..	E.	99
R Rothamsted ..	51 48	0 22 "	368	Sir J. H. Gilbert and T. Wilson.	F. G. S.	99
R Rothesay ..	55 50	5 4 "	115	J. Kay ..	E.	00
R Rounton, Yorkshire ..	54 24	1 18 "	242	Sir I. L. Bell, Bart., F.R.S.,	E.	99
R Rousdon, Devon ..	50 43	3 0 "	515	The late Sir C. E. Peck, Bart., M.A., ..	E.	00
Roxborough, Co. Limerick ..	52 35	8 36 "	111	A. W. Shaw ..	R.	95
Royal Sovereign Lightship ..	50 43	0 27 E.	—	Light-keepers ..	W.	—
Rugby ..	52 22	1 15 W.	379	St. J. B. Wynne Wilson, M.A.	G.	98
St. Ann's Head, Pembroke ..	51 41	5 30 "	150	G. H. Dunsford ..	T. S. W.	06
St. Aubin's, Jersey ..	49 12	2 11 "	25	J. Fisher ..	T.	16

Appendix II.—Supply of Information to the Public.

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Margate ..	51 24	1 24 E.	83	J. Stokes, J.P..	S.	00
Markree Castle, Co. Sligo ..	54 11	8 27 W.	122	F. W. Henkel, B.A., for Col. Cooper.	D. F. S.	00
Minard, Co. Kerry ..	52 7	10 8 "	—	Coastguard ..	W.	—
Morpeth ..	55 13	1 41 "	324	W. H. Hogg ..	D. S.	00
Mount Callan (Inagh), Co. Clare.	52 53	9 16 "	479	Lt.-Col. Tottenham ..	R.	98
Nairn ..	57 36	3 52 "	82	Miss Penny ..	T.	00
Newarp Lightship ..	52 45	1 53 E.	—	Light-keepers ..	W.	—
Newcastle, Co. Wicklow ..	53 5	6 6 W.	256	B. H. Steede, M.D. ..	D.	00
Newcastle-on-Tyne ..	54 5	1 36 "	152	N. H. Martin, F.C.S. ..	G. S.	99
Newchurch ..	51 41	2 48 "	—	C. Cullum ..	R.	—
Newmarket-on-Fergus ..	52 46	8 53 "	—	W. W. Fitzgerald ..	R.	98
Newport, Monmouth ..	51 35	3 0 "	—	C. Cullum ..	R.	00
Newton Hall ..	54 57	1 54 "	524	Rev. J. Seymour St. John ..	R.	—
Newquay, Cornwall ..	50 25	5 4 "	250?	A. Hardwick, M.D., for the Town Council.	S.	00
Newton Reigny (Penrith) ..	50 25	5 5 "	—	Coastguard ..	W.	—
Northallerton ..	51 41	2 43 "	579	T. G. Benn ..	T. S.	00
North-West Lightship ..	51 20	1 26 "	123	W. Stead, C.E. ..	R.	95
Norwood ..	51 26	0 6 "	220	Light-keepers ..	W.	—
Norwood ..	51 26	0 6 "	—	W. Marriott ..	E.	—
Ochertyre ..	56 23	3 53 "	329	G. Croucher, for Sir P. K. Murray, Bt.	E. F.	99
Omagh (Edenfel) ..	54 36	7 19 ..	300	Col. Buchanan, C.B. ..	F.	00
Oswaldkirk, Yorkshire ..	54 12	1 3 ..	510	R. Thompson ..	S.	96
Outer Dowsing Lightship ..	53 27	1 5 E.	—	Light-keepers ..	W.	—
Owers Lightship ..	50 39	0 41 W.	—	—	W.	—
Oxford ..	51 46	1 16 "	208	A. A. Rambaut, M.A. ..	T. S.	00
Pant-y-reos ..	51 38	3 4 "	449	C. Cullum ..	R.	00
Parkstone, Dorset ..	50 43	1 56 "	197	R. H. Barnes, B.A. ..	D.	00
Penbedw (Mold) ..	53 12	3 11 "	650	H. W. Buddicom ..	C.	—
Pennant Bay (Aberdour) ..	57 40	2 16 "	—	Coastguard ..	W.	—
Pennington ..	50 46	1 35 "	—	Miss H. Fullerton ..	R.	—
Penrhyn Quarry ..	53 10	4 6 "	—	H. P. Meares ..	R.	—
Peper Harow ..	51 11	0 40 "	199	John Warner ..	R.	—
Pinmore (Girvan) ..	55 12	4 49 "	187	P. Donald, for Capt. Hamilton.	E.	99
Plymouth, The Hoe ..	50 22	4 8 "	116	H. Victor Prigg, C.E., for the Corporation.	D. F. S.	00
Poltalloch ..	56 8	5 30 "	132	D. S. Melville, for Lord Malcolm.	E.	00
Portland Bill ..	50 32	2 27 "	177	C. Smith ..	T.	00
Portrush ..	55 13	6 40 "	—	Coastguard ..	W.	—
Port Talbot ..	51 34	3 45 "	—	R. Milner, for Miss Talbot ..	S.	00
Prestwich (Manchester) ..	53 32	2 17 "	320	T. R. H. Clunn, M.D. ..	D. F. S.	99
Rauceby Hall ..	53 0	0 29 "	125	General M. Willson ..	G.	—
Recess, Co. Galway ..	53 28	9 44 "	90	A. A. Smith ..	R.	—
Rhyl ..	53 19	3 29 "	—	A. A. Goodall, for Dist. Council.	S.	—
Ridgmont ..	52 1	0 36 "	291	H. M. Freear ..	D.	98
Ridlington ..	52 37	0 45 "	522	W. W. Wortley ..	R.	—
Roche's Point, Co. Cork ..	51 47	8 15 "	42	W. Kennedy ..	T.	00
Rochford (Tenbury) ..	52 18	2 36 "	316	Rev. John Tomson ..	C. R.	96
Rosewell ..	55 51	3 7 "	690	R. B. Mitchell, M.D. ..	E.	99
Rothamsted ..	51 48	0 22 "	368	Sir J. H. Gilbert and T. Wilson.	F. G. S.	99
Rothesay ..	55 50	5 4 "	115	J. Kay ..	E.	00
Rounton, Yorkshire ..	54 24	1 18 "	242	Sir L. L. Bell, Bart., F.R.S. ..	E.	99
Rousdon, Devon ..	50 43	3 0 "	515	The late Sir C. E. Peek, Bart., M.A. ..	E.	00
Roxborough, Co. Limerick ..	52 35	8 36 "	111	A. W. Shaw ..	R.	95
Royal Sovereign Lightship ..	50 43	0 27 E.	—	Light-keepers ..	W.	—
Rugby ..	52 22	1 15 W.	379	St. J. B. Wynne Willson, M.A.	G.	98
St. Ann's Head, Pembroke ..	51 41	5 30 "	150	G. H. Dunsford ..	T. S. W.	00
St. Aubin's, Jersey ..	49 12	2 11 "	25	J. Fisher ..	T.	00

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied.	Year of last Inspec- tion.
St. David's, Pembrokeshire ..	51 53	2 16 W.	215	W. P. Propert, LL.D ..	D.	00
St. Helen's, Lancashire ..	53 28	2 45 "	151	F. Drew Harris, M.D., for the Corporation.	G.	00
St. Heliers, Jersey ..	49 11	2 6 "	—	Signal Officer, Fort Regent	S.	00
St. Leonard's	50 51	0 33 E.	178	H. Colborne, M.R.C.S., for the Corporation.	D. F.	00
West Marina ..	50 51	0 32 "	—	T. Elbridge, for the Corporation.	G.	00
St. Peter Port, Guernsey ..	49 32	2 32 W.	222	F. E. Carey, M.D. ..	S.	00
Salcombe, Devon ..	50 14	3 46 "	—	Coastguard ..	W.	—
Sandgate, Kent ..	51 4	1 9 E.	56	A. Robert Bowles, C.E. ..	R.	99
Scarborough	54 18	0 24 W.	219	W. W. Larkin, for the Corporation.	D. F. S.	00
Scarborough	54 17	0 23 "	—	Coastguard	W.	—
Schull	51 32	9 32 "	—	Coastguard	G.	90
Scilly Islands, St. Mary's ..	49 56	6 18 "	65	A. Hicks	B. S. T.	00
Seafield, Co. Clare	52 48	9 30 "	—	Coastguard	W.	—
Seaham Harbour	54 50	1 19 "	148	G. H. Aird	D.	00
Seven Stones Lightship	50 4	6 5 "	—	Light-keepers	W.	—
Shaftesbury	51 1	2 12 "	722	Miss L. H. Harris	F.	00
Shambles Lightship	50 31	2 20 "	—	Light-keepers	W.	—
Sheffield, Weston Park	53 23	1 29 "	429	E. Howarth, F.R.A.S. ..	D. S.	99
Attercliffe.. ..	53 24	1 25 "	—	J. Robertson, M.D., B.Sc., for the Corporation.	S.	—
Sheephaven (Dunfanaghy) ..	55 11	7 58 "	—	Coastguard	W.	—
Shields, North	55 0	1 27 "	99	W. B. Clark	T.	00
Shields, North, High Light- house	55 0	1 27 "	—	T. Robson	B.	00
Shipwash Lightship	52 2	1 38 E.	—	Light-keepers	W.	—
Skipton	53 58	2 9 W.	567	W. Farmer	G.	99
Solway Lightship	54 48	3 32 "	—	Light-keepers	W.	—
Southampton	50 55	1 24 "	78	J. T. Cook, for Dir. Gen. of Ordnance Survey.	D. F. S.	00
Southport	53 39	2 59 "	37	J. Baxendell, for the Corporation.	S.	97
South Rock Lightship	54 25	5 22 "	—	Light-keepers	W.	—
Spiddal, Co. Galway	53 15	9 17 "	—	Coastguard	G.	90
Spurn Head	53 34	0 7 E.	26	A. S. Badcock	T.	00
Spurn Lightship	53 34	0 13 "	—	Light-keepers	W.	—
Stokesay (Craven Arms)	52 26	2 52 W.	370	Rev. W. La Touche, M.A. ..	D.	00
Stonyhurst College	53 51	2 28 "	375	Rev. W. Sidgreaves	A. D. F.	00
Stornoway	58 11	6 22 "	29	J. Mackenzie	T. S. C.	00
Stranraer	58 11	6 22 "	—	Coastguard	W.	—
Stranraer	54 54	5 2 "	—	Coastguard	G.	—
Strathepoef Spa, N.B.	57 37	4 28 "	253	J. Tregelles Fox, M.D. ..	D. S.	99
Sumburgh Head (Shetlands) ..	59 51	1 17 "	126	Rev. W. Brand	T. C.	98
Sunderland	54 54	1 23 "	—	Coastguard	W.	—
Swarraton	51 8	1 11 "	—	Rev. W. L. W. Eyre, M.A. ..	F.	00
Symbister, Shetlands	60 14	1 25 "	—	J. S. Nicolson	G.	—
Syston, Leicester	52 43	1 5 "	178	S. K. Daniels	R.	96
Tedby, Lincolnshire	53 24	0 16 "	251	Rev. S. Lewin, B.A. ..	D.	00
Teelin, Co. Donegal	54 38	8 39 "	—	Coastguard	W.	—
Temple Bruer, Lincolnshire ..	53 4	0 30 "	—	Miss G. Morley	R.	99
Tenby	51 41	4 42 "	78	R. J. Truscott, for the Corporation.	S.	00
Thurcaston (Leicester) ..	52 42	1 10 "	253	Rev. T. A. Preston, M.A. ..	S.	96
Torquay	50 28	3 31 "	286	A. Chandler, for the Corporation.	S.	00
Totland Bay, Isle of Wight ..	50 41	1 33 "	84	J. Dover, M.A.	G.	00
Union Hall, Co. Cork	51 33	9 8 "	—	Coastguard	G.	00
Uzon (Montrose)	56 40	2 28 "	—	Coastguard	W.	—
Valencia Observatory, Ca- hirciveen	51 56	10 15 "	30	J. E. Cullum	A. T. C.	00
Island, Glanleam	51 56	10 20 "	—	Miss E. FitzGerald	R.	—
" Knightstown	51 55	10 20 "	—	Coastguard	G.	—
Ventnor	50 36	1 13 "	80	Miss M. Gibson	S.	97

Appendix II.—Supply of Information to the Public.

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Station,	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied	Year of last Inspec- tion.
Wakefield	53 41	1 30 W.	96	A. Clyde ..	E.	99
Waterford	52 16	7 7 "	..	Harbour Authorities ..	C.	—
Watergate (Emsworth) ..	50 56	0 55 "	236	W. M. Christy ..	R. S.	99
Watford	51 39	0 34 "	253	G. E. Eland ..	R.	—
Wealdstone	51 37	0 20 "	174	G. E. Eland ..	R.	—
Wessington Court (Wool- hope).	52 1	2 35 "	—	S. Lomas, for Miss L. Grafton.	D.	00
Westbourne, Sussex	50 52	0 55 "	30	Rev. L. B. Birkett ..	S.	99
Westray, Orkney	59 17	3 0 "	—	Capt. J. Hewison ..	G.	—
Whitechurch, Devon	50 32	4 6 "	533	E. E. Glyde ..	E.	98
Wick	58 27	3 6 "	80	J. Sinclair ..	T.	00
Wolfelec	55 23	2 39 "	587	Coastguard ..	W.	—
Woolacombe, Devon	51 10	4 12 "	59	W. Gordon ..	E.	98
Worksop	53 22	1 5 "	56	E. Henshall, C.E. ..	D.	98
Worthing	50 42	0 22 "	38	H. Mellish ..	S.	96
Yarmouth, Norfolk	52 37	1 43 E.	10	C. Kelly, M.D., for the Cor- poration.	S.	99
Yarmouth, Isle of Wight	50 42	1 29 W.	—	G. T. Watson ..	B. T. C.	00
Ynis-y-bro (Newport)	51 33	3 3 "	115	Coastguard ..	G.	—
York, The Museum	53 57	1 5 "	56	C. Cullum ..	R.	00
" Bootham	53 57	1 5 "	105	H. M. Platnauer, B.Sc. ..	D.	98
				A. G. Pickard ..	S.	96

In addition to those already mentioned, reports are received daily from the following Continental Stations.

Station.	Authority	Station.	Authority.
Haparanda	{ Meteorological	f The Helder	
Hernösand	Office, Stock- holm.	Brussels	
*Stockholm		Cape Gris Nez	
Wisby		f Brest (St. Mathieu) ..	
Karlstad		Lorient (Île de Groix) ..	
Bodo	{ Meteorological	f Rochefort (Île d'Aix) ..	
*Christiansund	Institute,	Biarritz	Bureau Central Météorologique, Paris.
*Skudenesnaes	Christiania.	f Paris	
Færder		Belfort	
		Lyon	
f The Seaw	{ Meteorological	Nice	
Fanø	Institute,	Perpignan	
Cuxhaven	Copenhagen.	Berlin	
	Dentsche See- warte, Ham- burg.	Frankfort	{ Cent. Met. Inst. of Germany.
		Munich	
		Corunna	{ Observatory, Lisbon.
		(Lisbon	
		Azores (P. Delgada)	

Note—The stations marked with an asterisk (*) report also at 2h. p.m., and those with dagger (†) at 6h. p.m.; Lisbon reports at 4h. p.m. instead of 6h. p.m.
The Helder does not send reports at 6 p.m. on Sundays.

LIST OF BRITISH STATIONS ARRANGED UNDER COUNTIES.

County.	Station.	County.	Station.
England :—		England—cont.	
Bedford ...	Aspley Guise.	Kent ...	Kearsney.
	Ridgmont.		Littlestone-on-Sea.
Berkshire ...	Maidenhead.		Margate.
Buckingham ...	—		Sandgate.
Cambridge ...	Cambridge.	Lancashire ...	Blackpool.
Cheshire ...	Bidston.		Bolton.
	Chester, Ha-		Darwen.
	warden Bridge.		Fleetwood.
	Hoylake.		Lytham.
Cornwall ...	Falmouth.		Manchester.
	Newquay.		Do. Whitworth
	Scilly.		Park.
Cumberland ...	Aspatria.		Prestwich.
	Newton Reigny.		St. Helens.
Derby ...	Buxton.		Southport.
	Chatsworth.		Stonyhurst.
Devon ...	Arlington.	Leicester ...	Belvoir Castle.
	Cullompton.		Loughborough.
	Plymouth.		Syston.
	Rousdon.		Thurcaston.
	Salecombe.	Lincoln ...	Fulbeck.
	Torquay.		Mareham-le-Fen.
	Whitechurch.		Ranceby.
	Woolacombe.		Tealby.
Dorset ...	Parkstone.		Temple Bruer.
	Portland Bill.	Middlesex ...	London :
	Shaftesbury.		City.
Durham ...	Durham.		Hampstead.
	Seaham.		Pall Mall.
	Sunderland.		Westminster.
Essex ...	Clacton-on-Sea.	Monmouth ...	Wealdstone.
Gloucester ...	Cheltenham.		Newchurch.
	Cirencester.		Newport.
	Clifton.		Pant-y-reos.
	Dursley.		Ynis-y-bro.
	Hidcote.	Norfolk ...	East Dereham.
Hampshire ...	Bournemouth.		Geldeston.
	Haslar.		Hillington.
	Pennington.		Yarmouth.
	Southampton.	Northampton ...	Colly Weston.
	Swarraton.	Northumberland	Alnwick Castle.
	Totland Bay.		Morpeth.
	Ventnor.		Newcastle-on-
	Yarmouth.		Tyne.
Hereford ...	Hereford.		Newton Hall.
	Wessington Court.		North Shields.
Hertford ...	Bennington.	Nottingham ...	Hesley Hall.
	Berkhamsted.		Worksop.
	Rothamsted.	Oxford ...	Churchill.
	Watford.		Oxford.
Huntingdon ...	—	Rutland ...	Ketton.
Kent ...	Broadstairs.		Ridlington.
	Chatham.	Shropshire ...	Stokesay.
	Dover.	Somerset ...	—
	Dungeness.	Stafford...	Cheadle.

Appendix II.—Supply of Information to the Public. 63

County.	Station.	County.	Station.
England—cont.			
Suffolk ...	Felixstowe. Gorleston. Hollesey Bay. Lowestoft.	Merioneth ...	Aberdovey.
Surrey ...	Bramley. Brixton. Cooper's Hill. Cranleigh. Kew. Norwood. Peper Harow.	Montgomery ...	Churchstoke. Llandinam.
Sussex ...	Bexhill. Bognor. Brighton. Cuckfield. Eastbourne. Forest Row. Hastings. Do. Water- works. St. Leonards. Do. West Marina. Watergate Park. Westbourne. Worthing.	Pembroke ...	St. Ann's Head. St. David's. Tenby. Radnor ...
Warwick ...	Edgbaston. Rugby.	Islands :—	Dissenthr.
Westmoreland ...	—	Isle of Man ...	Cronbourne.
Wiltshire ...	—	Jersey ...	St. Aubin's. St. Heliers.
Worcester ...	Rochford.	Guernsey ...	St. Peter Port.
Yorkshire ...	Ampleforth. Aysgarth. Northallerton. Oswaldkirk. Rounton. Scarborough. Sheffield. Do. Attercliffe. Skipton. Spurn Head. Wakefield. York.	Scotland :—	
Wales :—		Aberdeen ...	Aberdeen. Braemar. Pennant Bay.
Anglesey ...	Holyhead.	Argyll ...	Laudale. Machrihanish. Poltalloch.
Brecknock ...	—	Ayr ...	Ballantrae. Pinmore.
Cardigan ...	—	Banff ...	Gordon Castle.
Carmarthen ...	Llandovery.	Berwick ...	Burnmouth. Marchmont.
Carnarvon ...	Llandudno. Penrhyn Quarry. Bettws-y-Coed.	Bute ...	Lanlash. Rothesay.
Denbigh ...	Colwyn Bay.	Caithness ...	Wick.
Flint ...	Penbedw. Rhyl.	Clackmannan ...	—
Glamorgan ...	Port Talbot.	Cromarty ...	Cromarty. Strathpeffer Spa.
		Dumbarton ...	—
		Dumfries ...	—
		Edinburgh ...	Edinburgh. Leith. Rosewell.
		Elgin ...	—
		Fife ...	Burntisland.
		Forfar ...	Dundee. Lednathie. Uzon.
		Haddington ...	—
		Inverness ...	Ben Nevis. Fort Augustus. Fort William.
		Kincardine ...	Cove Bay.
		Kinross ...	—
		Kirkcudbright ...	Cargen. Glenlee.
		Lanark ...	Glasgow.
		Lintithgow ...	—
		Nairn ...	Nairn.
		Orkney ...	Deerness. Kirkwall. Westray.

County.	Station.	County.	Station.
Scotland— <i>cont.</i>		Ireland— <i>cont.</i>	
Peebles ...	—	Donegal ...	Teelin.
Perth ...	Forgandenny	Down ...	Donaghadee.
	Ochtertyre.	Dublin ...	Dublin (City).
Renfrew ...	—		Do. (Mountjoy Barracks.)
Ross ...	Ardross Castle.		Glasnevin.
	Glencarron.		Killiney.
	Stornoway.		Kingstown.
Roxburgh ...	Wolfeloe.	Fermanagh ...	—
Selkirk ..	—	Galway ...	Arran.
Shetlands ...	Lerwick.		Cleggan.
	Sumburgh Head.		Recess.
	Symbister.	Kerry ...	Spiddal.
Stirling ...	—		Killarney
Sutherland ...	Dunrobin Castle.		Minard.
	Laig.		Valencia.
Wigtown ...	Stranraer.		Do. Glanleam.
	—		Do. Knightstown.
Ireland :—		Kildare ...	—
Antrim ...	Belfast.	Kilkenny ...	Kilkenny.
	Glenarm.	King's Co. ...	Birr Castle.
	Portrush.	Leitrim ...	Carrigallen.
Armagh ...	Armagh.	Limerick ...	Adare.
Carlow ...	—		Foynes.
Cavan ...	—		Limerick.
Clare ...	Ennis.	Londonderry ...	Roxborough.
	Ennistymon.	Longford ...	Londonderry.
	Hurdlestowm.	Louth ...	—
	Kilcredane.	Mayo ...	Ballyglass.
	Lahinch.		Black sod Point.
	Liscanor.		Mallaranny.
	Mount Callan.	Meath ...	—
	Newmarket-on-	Monaghan ...	—
	Fergus.	Queen's Co. ...	—
	Seafield.	Roscommon ...	—
Cork ...	Baltimore.	Sligo ...	Markree Castle.
	Crookhaven.	Tipperary ...	—
	Crosshaven.	Tyrone ...	Lissan.
	Doneraile.		Omagh.
	Roche's Point.	Waterford ...	Waterford.
	Schull.	Westmeath ...	—
	Union Hall.	Wexford ...	—
Donegal ...	Malin Head.	Wicklow ...	Bray.
	Sheep Haven.		Newcastle.

R E P O R T

OF THE

METEOROLOGICAL COUNCIL,

For the Year ending 31st of March, 1902,

TO THE

PRESIDENT AND COUNCIL

OF THE

ROYAL SOCIETY.

Presented to both Houses of Parliament by Command of His Majesty.



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1902.

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To face title.

(REPORT OF METEOROLOGICAL COUNCIL 1901-1902)

MAP SHOWING THE APPROXIMATE POSITIONS OF THE STATIONS FROM WHICH OBSERVATIONS HAVE BEEN RECEIVED.



Supply of instruments on commission for observers at Land Stations.

The Council are prepared to supply, at a cost of 5 per cent. in addition to their contract prices and the cost of carriage, trustworthy instruments for standard meteorological observations to those who are willing to send copies of their observations to the Office. The risk of breakage in transit must be undertaken by the consignee. The Council will also supply, free of cost, blank registers for the returns of the observations and forms for anemographs and sunshine recorders, and will, if desired, give advice about the site and exposure of the instruments.

A book of "Instructions in the use of Meteorological Instruments" has been prepared in the Office, and is sold by Messrs. Eyre and Spottiswoode, East Harding Street, E.C., and the other agents for the sale of Stationery Office publications, price 2s. 6d. A new edition of this publication is now being prepared.

For the supply of instruments on commission for observers, or for distant coast stations, application should be made to the Office.

H.—LIST of STATIONS in the BRITISH ISLANDS from which INFORMATION has been received at the METEOROLOGICAL OFFICE during the Year ended March 31st, 1902.

The Stations marked "S" are in connexion with the Scottish Meteorological Society, and those marked "R" are in connexion with the Royal Meteorological Society.

Where necessary, the name of the nearest well-known village or town has been inserted within brackets following the name of the station.

The nature of the information received from each station is indicated by letters in the sixth column, as follows:—

- A.—Continuous records 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.)
- B.—Continuous record of the direction and velocity (or force) of the wind. (Anemographic Stations.)
- C.—Continuous record of pressure. (Barographic Stations.)
- D.—Monthly sheets, containing regular observations at 9 a.m. and 9 p.m. each day, local time, of pressure, temperature (dry bulb and wet bulb), wind, cloud, and weather, with the daily maximum and minimum of temperature, the daily rainfall, and general remarks on the weather. (Second Order Stations.)
- E.—Monthly means and summaries of observations taken at 9 a.m. and 9 p.m. each day as above. (Second Order Stations.)

Appendix II.—Supply of Information to the Public. 57

- F.—The maximum and minimum temperature, and the rainfall for each day, with remarks on the weather. This information is received in the Meteorological Office each week for use in the "Weekly Weather Report."
- G.—Observations of the same kind as at Second Order Stations, but either—(a) less full, (b) taken only once daily, (c) taken at hours other than 9 a.m. and 9 p.m. (Third Order Stations.)
- H.—Monthly Charts of daily readings of the Fishery Barometer and attached Thermometer.
- R.—Monthly sheets containing the daily observations of the amount of rainfall, with remarks on the weather. (Third Order Stations.)
- S.—Continuous record of bright sunshine. (Sunshine Stations.)
- T.—Regular observations at 8 a.m. and 6 p.m. G.M.T. (and from some stations at 2 p.m. in addition), of pressure, temperature, wind and weather, with the daily maximum and minimum of temperature, the daily rainfall, and, where possible, the sea disturbance at 8 a.m. each day, and the daily amount of bright sunshine. This information is received each day by telegraph, for use in the "Daily Weather Report" and in the "Weekly Weather Report." (Telegraphic Stations.)
- W.—Daily observations of the temperature of the sea water. (Sea Temperature Stations.)
-

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Information supplied, see p. 56.	Year of last Inspection.
Stations in the British Isles.						
Aberdeen Observatory ..	57° 10'	2° 6' W.	46	Prof. C. Niven, F.R.S. ..	A. T. C	01
Cove Bay ..	57° 9'	2° 5' "	—	Coastguard ..	W.	—
Aberdovey ..	52° 33'	4° 4' "	—	John Edwards ..	S.	—
Adare ..	52° 33'	8° 47' "	—	W. Bowles ..	R.	—
Alnwick Castle ..	55° 25'	1° 43' "	210	Robt. Kyle, for the Duke of Northumberland.	B. F.	01
Ampleforth ..	51° 12'	1° 5' "	349	Rev. J. B. McLaughlin, B.A., O.S.B.	D.	01
Ardross Castle, N.B. ..	57° 45'	4° 21' "	449	W. Minty ..	R.	—
Arlington Court (Barnstaple)	51° 8'	3° 58' "	613	Lady Chichester ..	B.D.F.S.	01
Armagh Observatory ..	54° 21'	6° 39' "	196	J. L. E. Dreyer, Ph.D. ..	H.W.	—
Arran, North, Galway ..	53° 6'	9° 40' "	—	Coastguard ..	D.S.	01
Asputria ..	54° 46'	3° 21' "	250	J. Smith Hill, B.Sc. ..	S.	—
Aspley Guise, Beds. ..	52° 1'	0° 38' "	410	E. E. Dymond ..	D.	—
Aysgarth, Yorks ..	54° 18'	1° 58' "	848	Rev. F. W. Stow, M.A. ..	99	
Bahama Bank Lightship ..	54° 20'	4° 13' "	—	Light-keepers ..	W.	—
Ballantrae, Ayrshire ..	55° 6'	5° 0' "	—	Coastguard ..	W.	—
Ballydonegan, Co. Cork ..	51° 38'	10° 3' "	—	" ..	W.	—
Ballyglass, Co. Mayo ..	54° 17'	9° 52' "	—	" ..	W.	01
Baltimore, Co. Cork ..	51° 28'	9° 22' "	—	" ..	H.	99
Bath ..	51° 23'	2° 21' "	—	W. H. Symons, M.D., for the Corporation.	T.S.	01
Bawtry (Hesley Hall) ..	53° 27'	1° 4' "	65	B. J. Whitaker, J.P. ..	F.	99
Belfast, Queen's College ..	54° 35'	5° 56' "	61	John Wylie ..	D.	01
Belvoir Castle (Grantham)	52° 54'	0° 47' "	259	W. H. Divers, for the Duke of Rutland.	D.	00
Ben Nevis ..	56° 48'	5° 0' "	4,405	A. Rankin, for Directors of Ben Nevis Observatory.	A. E.	01
Bennington, Herts. ..	51° 54'	0° 5' "	407	Rev. J. D. Parker, LL.D.	E.	00
Berkhamsted ..	51° 46'	0° 34' "	400	E. Mawley, F.R. Met. Soc.	E.	00
Bettws-y-Coed ..	53° 6'	3° 48' "	628	Col. Wynne Finch ..	R.	—
Bidston Observatory (Liver- pool).	53° 24'	3° 4' "	188	W. E. Plummer, F.R.A.S. ..	D. T.	01
Birmingham (Edgbaston). ..	52° 28'	1° 56' "	534	Alf. Cresswell ..	D. S.	00
Birr Castle (Parsonstown) ..	53° 6'	7° 55' "	175	J. L. Roe, for the Earl of Rosse.	D. S. T.	01
Blackpool ..	53° 48'	3° 3' "	62	F. J. H. Coutts, M.D., D.P.H. for the Corporation.	F. S.	00
Blacksod Point, Co. Mayo. ..	54° 6'	10° 4' "	37	A. Marshall ..	W. T.	01
Bognor ..	50° 47'	0° 40' "	—	H. C. L. Morris, M.D., for the Corporation.	S.	—
Bolton ..	53° 35'	2° 27' "	389	A. G. Thompson ..	G.	—
Bournemouth ..	50° 43'	1° 53' "	—	W. W. Midgley, for the Corporation.	G.	—
Braemar ..	57° 0'	3° 24' "	1,111	C. Dales, for Town Council	S.	01
Bramley, Surrey ..	51° 11'	0° 33' "	148	J. Aitken, J.P. ..	D. F. S.	00
Brandon ..	52° 27'	0° 37' E.	48	J. Bartlett, M.A. ..	D.	00
Bray, Co. Wicklow ..	53° 12'	6° 6' W.	—	Col. B. E. Spragge ..	R.	—
Brighton ..	50° 49'	0° 8' "	65	Coastguard ..	H.	—
Broadstairs ..	51° 21'	1° 26' E.	—	A. Newsholme, M.D., for the Corporation.	S.	96
Burnmouth (Avton, Berwick) ..	56° 51'	2° 4' W.	—	L. A. Skinner, for the Dis- trict Council.	S.	—
Burntisland ..	56° 4'	3° 14' "	—	Coastguard ..	W.	—
Buxton ..	53° 14'	1° 54' "	987	W. Pilkington ..	E.	01
Caernarvon Bay Lightship ..	53° 6'	4° 45' "	—	Light-keepers ..	W.	—
Caistor ..	53° 30'	0° 20' "	937	Thos. Ford ..	R.	01
Cahir ..	52° 22'	7° 55' "	188	R. W. Smith, Junr. ..	S.	—
Cally ..	54° 52'	4° 12' "	—	W. Thomson, for G. H. Murray Stewart.	E. F.	—
Cambridge ..	52° 13'	0° 6' E.	83	Miss A. Walker, for Sir Robt. Ball, F.R.S.	S. D.	98
Campden, see Hidcote.						
Canterbury ..	51° 16'	1° 5' W.	39	A. Lander ..	D.	01
Cardigan Bay Lightship ..	52° 25'	5° 1' W.	—	Light-keepers ..	W.	—
Cargin ..	55° 2'	3° 37' "	72	A. Peacock ..	E.	01
Carrigallen, Co. Leitrim ..	53° 58'	7° 38' "	350?	Mrs. J. Godley and Miss Morrow.	R.	—
Chatham ..	51° 23'	0° 32' E.	136	The Instructor in Survey- ing.	G.	99

Appendix II.—Supply of Information to the Public.

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Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Information supplied, <i>see p. 56.</i>	Year of last Inspection.
Chatsworth	53 14	1 37 W.	—	The Duke of Devonshire. K.G.	C.G.	—
A Cheadle	52 58	1 57 "	646	J. C. Philips	E. F.	99
A Cheltenham	51 54	2 3 "	184	R. Tyrer, B.A.	E.	01
Chester (Hawarden Bridge)	53 12	3 1 W.	—	F. B. Summers	F. G.	01
A Churchstoke	52 31	3 5 W.	538	P. Wright, F.C.S.	D. F. S.	01
Cirencester	51 43	1 57 "	446	Prof. G. T. Locke, M.A. ..	F. S.	01
Clacton-on-Sea	51 48	1 9 E.	—	A. W. Shadick, for the Town Council.	T.S.	—
Cleggan, Co. Galway	53 33	10 8 W.	—	Coastguard	W.	—
Clifton	51 27	2 37 "	230	D. Rintoul, M.A.	F.	00
Cockle Park (Morpeth)	55 13	1 41 "	324	W. H. Hogg and J. H. J. Farquhar.	D. S.	01
Colly Weston	52 37	0 31 "	280	Miss A. Tasker	F.	01
Colwyn Bay	53 17	3 43 "	—	R. E. Lord, M.D., B.Sc.	S.	01
Coningbeg Lightship	52 2	6 40 "	—	Light-keepers	W.	—
Corballay (Limerick)	52 39	8 36 "	59	Poole Gabbett	R.	—
Cromarty	57 41	4 0 "	—	Coastguard	W.	—
Cronkbourne (Douglas)	54 10	4 29 "	137	A. W. Moore, M.A., C.V.O. ..	D. F. S.	01
Crookhaven	51 28	9 43 "	—	Coastguard	H.	90
Crosshaven	51 48	8 18 "	—	—	H.	01
Cuckfield, Sussex	51 1	0 9 "	389	John Howe	R.	97
A Culmpton	50 51	3 23 "	202	T. Turner, J.P.	F. S.	01
Darwen, Lancashire	53 41	2 28 "	710	G. Mainland, for the Cor- poration.	G. S.	00
Deerness, Orkney Islands	58 56	2 45 "	160	M. Spence	B. D. S.	01
Dissert (Llandrindod)	52 13	3 24 "	711	Rev. J. Le Herbert	R.	00
Donaghadee	54 38	5 32 "	40	W. Keown	T.	01
Doneraile, Co. Cork	52 13	8 34 "	266	Capt. J. W. Evans, J.P.	R.	—
Dover	51 7	1 18 E.	198	H. E. Stilgoe, C.E.	R.	96
Dublin, Botanic Gardens	53 23	6 16 W.	67	F. W. Moore, M.R.I.A.	D.	01
" City	53 20	6 15 "	47	Sir J. W. Moore, M.D.	D. F.	01
" Phoenix Park	53 22	6 21 "	155	Colonel Haynes, R.E.	B. D. S.	01
S Dundee	56 28	2 56 "	160	J. Carnochan	D. S.	01
Dungeness	50 55	0 58 E.	26	W. H. Taylor and J. G. Williams.	T.	01
Dunmow	51 53	0 23 "	297	E. E. Hennessey, B.A., B.Sc., and Thos. Hacking.	D. F. S.	—
S Dunrobin Castle	57 59	3 56 W.	12	D. McIlvane, for the Duke of Sutherland.	D.	01
Durham	54 46	1 35 "	336	Prof. R. A. Sampson, M.A.	D. F. S.	00
Dursley, Glos.	51 41	2 21 "	250	R. W. Pinney	R.	01
Eastbourne	50 46	0 17 E.	39	R. Sheward, for the Corpo- ration.	D. S.	00
East Goodwin Lightship	51 13	1 36 "	—	Light-keepers	W.	—
East Dereham	52 41	0 57 "	158	G. H. H. Cooper	R.	—
Edenfel (Omagh)	54 36	7 19 W.	300	Col. Buchanan, C.B.	F.	00
Edgbaston, <i>see</i> Birmingham.						
Edinburgh	55 57	3 12 "	253	Prof. J. B. Balfour, F.R.S.	S.	—
English and Welsh Grounds	51 27	3 0 "	—	Light-keepers	W.	—
Lightship.						
Ennis, Co. Clare	52 51	8 59 "	38	Miss A. L. Scott	R.	—
Ennistymon, Co. Clare	52 57	9 17 "	131	Rev. C. W. McDowell, M.A.	R.	—
Falmouth	50 9	5 4 E.	167	E. Kitto	A. F.	01
Felixstowe	51 58	1 22 E.	76	Rev. J. G. Munday, M.A.	F. S.	00
Fleetwood	53 56	3 1 W.	—	M. S. Gaultier	B.	00
Forgandenny, Perth	56 21	3 29 "	175	C. L. Wood	C.	—
Forest Row, Sussex	51 7	0 2 E.	619	Rt. Hon. J. Bryce, D.C.L., M.P.	R.	—
S Fort Augustus	57 8	4 40 W.	68	Rev. C. von Dieckhoff	E. F. S.	01
Fort William	56 49	5 7 "	31	A. Rankin, for Directors of Ben Nevis Observatory.	A. F.	01
Foyne, Co. Limerick	52 37	9 7 "	108	W. H. Ward, for Lord Monteagle, K.P.	F.	95
Fulbeck, Lincolnshire	53 3	0 37 "	185	Rev. V. F. Willson, M.A.	C. D.	01
Geldeston (Beccles)	52 28	1 31 E.	37	E. T. Dowson	D. F. S.	99
Glasgow	55 53	4 18 W.	180	Prof. L. Becker, Ph.D.	A. D. F.	01

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied, see p. 56.	Year of last Inspection.
Glasnevin, see Dublin.						
Glenarm	54° 58'	5° 56' W.	44	Earl of Antrim	R.	—
"	54° 58'	5° 56" "	—	Coastguard	H.	—
S Glenarron	57° 30'	5° 14" "	480	D. D. Munro	E. F.	00
Glenlee	55° 5'	4° 12" "	263	W. Melville	E. F.	01
S Gordon Castle	57° 37'	3° 5" "	101	C. Webster, for the Duke of Richmond and Gordon, K.G.	E.	00
Gorleston (Gt. Yarmouth)	52° 35'	1° 43' E.	—	J. G. Bamman	H.	—
Gruline, Isle of Mull ..	—	—	100	J. W. Melles	R.	—
Harefield	51° 38'	0° 29' W.	247	G. Eland	R.	—
Harrogate	54° 0'	1° 33" "	—	G. Paul, for the Corpora- tion	R. S.	—
Haslar Hospital	50° 47'	1° 7" "	—	C. Seaman	H.	—
Hawarden Bridge, see Chester.						
Hastings, St. Helen's Cres. Waterworks ..	50° 51'	0° 34' E.	149?	Rev. H. H. Breton, M.A. ..	R.	00
"	50° 51'	0° 34" "	—	— Farnham, for the Cor- poration	S.	00
Haverfordwest	51° 18'	4° 58' W.	—	J. W. Phillips	S.	01
Hesley Hall, see Bawtry.						
A Hereford	52° 5'	2° 45" "	291	Rev. T. B. Harrington, O.S.B.	F.	01
Hidcote (Campden), Glos..	52° 5'	1° 46" "	524	Major W. Wright, R.A. ..	R.	97
A Hillington	52° 48'	0° 33' E.	88	Rev. H. E. B. Ffolkes, M.A. ..	D. F. S.	99
Hollesley Bay, Suffolk ..	52° 3'	1° 27" "	38	Prof. C. G. Freer Thon- ger, F.C.S.	D. S.	99
Holyhead, Harbour Office ..	53° 18'	4° 39' W.	57	F. M. Cotton, C.E. ..	B. W.	01
Sailors' Home ..	53° 18'	4° 39" "	48	T. Chope	T.	01
Hoyle, Cheshire ..	53° 23'	3° 12" "	—	L. G. Dashper	S.	01
Hurdlestown (Broadford), Co. Clare ..	53° 48'	8° 38" "	157	Lieut.-Col. W. O. Bentley, R.A.	R.	—
Kearney Abbey (Dover) ..	51° 8'	1° 17' E.	100?	C. W. Curtis	R.	96
Chilton Farm ..	51° 8'	1° 17"	135	H. E. Stilgoe, C.E. ..	R.	—
Kettton Vicarage ..	52° 38'	0° 32' W.	109	Rev. A. Swire	R.	99
Kew Observatory	51° 28'	0° 19" "	18	C. Chree, D.Sc., F.R.S. ..	A.	00
Kilcredane, Co. Clare ..	52° 35'	9° 47" "	—	Coastguard	W.	—
Kilkenny	52° 39'	7° 14" "	212	H. Carlton, for the Marquis of Ormonde, K.P.	C. F.	99
A Killarney	52° 4'	9° 30" "	174	E. H. Griffin, M.D. ..	G. F.	01
Killiney, Co. Dublin ..	53° 16'	6° 7" "	249	R. O'Brien Furlong, C.B. ..	R.	95
Kingstown	53° 17'	6° 8" "	—	H.M. Office of Works ..	B.	01
"	53° 17'	6° 8" "	—	J. B. Power, for the Dist. Council	G. S.	01
(Sandy Cove) ..	53° 17'	6° 8" "	—	Coastguard	W.	—
Kinlochewe	—	—	58	A. McLennan, (for Hon. W. Peel, M.P.)	R.	—
Kirkby Lonsdale	54° 12'	2° 36" "	—	J. K. Picard	R.	—
" (Norwood) ..	54° 12'	2° 36" "	304	R. A. Clarke	R.	—
Kirkwall	58° 59'	2° 57" "	—	Coastguard	W.	—
Kish Bank Lightship ..	53° 19'	5° 55" "	—	Light-keepers	W.	—
Lahinch, Co. Clare ..	52° 35'	9° 21" "	52	Miss I. F. K. Bowes	R.	99
S Lairg	58° 1'	4° 22" "	335	Rev. D. Macrae	E. F.	01
Lamlash, Isle of Arran ..	55° 32'	5° 8" "	—	Coastguard	H. W.	—
Laudale, Argyleshire ..	56° 41'	5° 41" "	14	A. Fletcher, for T. H. G. Newton, M.A.	D. F.	01
S Leduathie	56° 45'	3° 7" "	719	W. Morrison, for P. Stor- month Darling	E.	00
Leith	55° 58'	3° 10" E.	19	T. Richardson	T.	01
Leman and Ower Lightship	53° 8'	2° 2" E.	—	Light-keepers	W.	—
Lerwick	60° 9'	1° 8' W.	—	Coastguard	W.	—
Liscannor, Co. Clare ..	52° 56'	9° 23" "	—	Coastguard	W.	—
Lisdoonvarna	53° 1'	9° 17" "	358	J. J. MacGrath, L.R.C.P.L.	G.	—
S Lissan, Co. Tyrone ..	54° 41'	6° 45" "	300	—	E.	98
Littlestone-on-Sea	50° 59'	0° 59' E.	—	H. T. Tubbs	G. S.	01
Llandinam, Montgomery ..	52° 29'	3° 26' W.	600	John Owens	R.	—
Llandovery	51° 59'	3° 48" "	217	J. Watkins	F.	01
A Llandudno	53° 21'	3° 50" "	72	Wm. Little, for Town Council	E. F. S.	01
London, Brixton	51° 27'	0° 8" "	77	F. Gaster	T.	—
" Chelsea	51° 29'	0° 10" "	—	T. W. E. Higgins, C.E. ..	R.	—

Appendix II.—Supply of Information to the Public.

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Station	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied, see p. 56.	Year of last Inspection.
London, City ..	51 31	0 5 W.	80	Messrs. De La Rue ..	S.	—
" Hampstead ..	51 34	0 10 "	—	H. R. Beeton ..	C.	—
" Pall Mall ..	51 30	0 7 "	—	Athenaeum Club ..	C.	—
" Westminster ..	51 30	0 8 "	78	The Staff of the Met. Office ..	C. G.	—
" Westminster Training College.	51 30	0 8 "	—	H. A. Reatchlous, M.A. ..	S.	—
Londonderry ..	55 0	7 19 "	67	<i>The late</i> J. Conroy ..	F.	00
Loughborough ..	52 47	1 12 E.	146	W. Berridge ..	T.	01
Lowestoft ..	52 29	1 44 E.	—	C. J. Heppell ..	H.	—
St. " ..	52 29	1 44 "	84	C. W. Edwards, for the Corporation.	E.S.	99
Lytham ..	53 44	2 58 W.	21	J. C. Fisher, M.A., M.B., for the Corporation.	D. S	00
Machrihanish ..	55 25	5 45 "	16	J. Franklin Adams ..	G.	95
Maidenhead ..	51 30	0 43 "	99	G. H. Palmer ..	G.	99
Malin Head, Co. Donegal ..	55 23	7 24 "	230	Alfred Hailstone ..	T. C.	01
Mallaranny ..	53 55	9 40 "	119	Miss M. Kilsby ..	R.	—
Manchester, Oldham Rd. ..	53 29	2 13 "	190	J. Niven, M.A., M.B., for the Corporation.	D. S.	00
Whitworth Park ..	53 28	2 14 "	125	Prof. Schuster, F.R.S., D.Sc.	D. S.	99
" Prestwich ..	53 32	2 17 "	320	T. R. H. Clunn, M.D. ..	D. F. S.	00
S Marchmont ..	55 44	2 25 "	498	J. A. Wood ..	E. F. S.	98
Marcham-le-Fen ..	53 8	0 5 "	33	Mrs. G. L. Kime ..	R.	01
M Margate ..	51 24	1 24 E.	83	J. Stokes, J.P. ..	S.	00
Markree Castle, Co. Sligo ..	54 11	8 27 W.	122	F. W. Henkel, B.A., for <i>the late</i> Col. Cooper.	D. F. S.	01
Minard, Co. Kerry ..	52 7	10 8 "	—	Coastguard ..	W.	—
Morpeth, <i>see</i> Cockle Park ..	—	—	—	Lt.-Col. Tottenham ..	R.	98
Mount Callan (Inagh), Co. Clare ..	52 53	9 16 "	479	Lt.-Col. Tottenham ..	R.	98
Nairn ..	57 36	3 52 "	82	Miss Penny ..	T.	01
Newarp Lightship ..	52 45	1 53 E.	—	Light-keepers ..	W.	—
Newcastle, Co. Wicklow ..	53 5	6 6 W.	256	B. H. Steede, M.A., M.B. ..	D.	00
Newcastle-on-Tyne ..	54 59	1 36 "	152	N. H. Martin, F.C.S. ..	G. S.	01
Newchurch ..	51 41	2 48 "	—	C. Cullum ..	R.	—
Newmarket-on-Fergus ..	52 46	8 53 "	—	W. W. A. Fitzgerald ..	R.	98
*Newport, Monmouth ..	51 35	3 0 "	—	C. Cullum ..	R.	00
Newton Hall ..	54 57	1 54 "	524	Rev. J. Seymour St. John ..	R.	—
Newquay, Cornwall ..	50 25	5 4 "	250?	A. Hardwicke, M.D., for the Town Council.	S.	00
Newton Reigny (Penrith) ..	50 25	5 5 "	—	Coastguard ..	W.	—
Northallerton ..	54 41	2 48 "	579	T. G. Benn ..	T. S. C.	01
North-West Lightship ..	54 20	1 26 "	129	W. Stead, C.E. ..	R.	95
St. Norwood ..	51 26	0 6 "	220	Light-keepers ..	W.	—
S Ochtertyre ..	56 23	3 53 "	329	W. Marriott ..	E.	—
Omagh, <i>see</i> Edenfel ..	—	—	—	G. Croucher, for Sir P. K. Murray, Bt.	E. F.	01
Oswaldkirk, Yorkshire ..	54 12	1 3 "	510	R. Thompson ..	S.	96
Outer Dowsing Lightship ..	53 27	1 5 E.	—	Light-keepers ..	W.	—
Owers Lightship ..	50 39	0 41 W.	—	A. A. Rambant, M.A. ..	W.	—
Oxford ..	51 46	1 16 "	208	A. A. Rambant, M.A. ..	T. S.	01
Pant-y-reos (Newport) ..	51 38	3 4 "	449	C. Cullum ..	R.	00
Parkstone, Dorset ..	50 43	1 56 "	197	R. Hawkesworth Barnes, B.A. ..	D.	00
Penbedw (Mold) ..	53 12	3 11 "	650	H. W. Buddicom ..	C.	—
Pennant Bay (Aberdour) ..	57 40	2 16 "	—	Coastguard ..	W.	—
Penrhyn Quarry ..	53 10	4 6 "	—	H. P. Meares, C.E. ..	R.	01
Peper Harow ..	51 11	0 40 "	199	John Warner ..	R.	—
S Pinmore (Girvan) ..	55 12	4 49 "	187	P. Donald, for Capt. Hamilton.	E.	01
Plumstead ..	—	—	—	J. E. Waller ..	S.	01
Plymouth, The Hoe ..	50 22	4 8 "	116	H. Victor Prigg, C.E., for the Corporation.	D. F. S.	00
S Poltalloch ..	56 8	5 30 "	132	D. S. Melville, for Lord Malcolm.	E.	00
Portland Bill ..	50 32	2 27 "	177	C. Smith ..	T.	01
Portrush ..	55 13	6 40 "	—	Coastguard ..	W.	—
Port Talbot ..	51 34	3 45 "	—	R. Milner, for Miss Talbot	S.	00
Prestwich, <i>see</i> Manchester ..	—	—	—	—	—	—

* See also Pant-y-reos and Ynis-y-bro.

Report of the Meteorological Council.

Station.	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Information supplied, <i>see p. 56.</i>	Year of last Inspection.
Ranceby Hall	53° 0'	0° 29' W.	125	General M. Willson	G.	01
Recess, Co. Galway	53° 28'	0° 44' "	90	A. A. Smith	R.	-
Rhyl	53° 19'	3° 29' "	-	A. A. Goodall, for Dist. Council.	S.	01
Ridgmont	52° 1'	0° 36' "	291	H. M. Freear	D.	98
Ridlington	52° 37'	0° 45' "	522	W. W. Wortley	R.	-
Roche's Point, Co. Cork ..	51° 47'	8° 15' "	42	W. Kennedy and B. Kell- erher.	T.	01
Rochford (Tenbury)	52° 18'	2° 36' "	316	Rev. John Tomson	C. R.	01
Rosewell	55° 51'	3° 7' "	690	R. E. Mitchell, M.D.	E.	99
Rothamsted	51° 48'	0° 22' "	368	T. Wilson	F. G. S.	99
Rothesay	55° 50'	5° 1' "	115	J. Kay	E.	00
Rounton, Yorkshire	54° 24'	1° 18' "	242	Sir I. L. Bell, Bart., F.R.S. ..	E.	99
Rousdon, Devon	50° 43'	3° 0' "	515	Lady Peck	E.	01
Roxborough, Co. Limerick ..	52° 35'	8° 36' "	111	A. W. Shaw	R.	95
Royal Sovereign Lightship ..	50° 43'	0° 27' E.	-	Light-keepers	W.	-
Rugby	52° 22'	1° 15' W.	379	St. J. B. Wynne Willson, M.A., and R. G. K. Lemp- ert, M.A.	G.	98
St. Ann's Head, Pembroke ..	51° 41'	5° 11' "	150	G. H. Dunsford	T. S. W.	01
St. Aubin's, Jersey	49° 12'	2° 11' "	25	J. Fisher	T.	01
St. David's, Pembrokeshire ..	51° 53'	5° 16' "	215	W. P. Propert, LL.D.	D.	01
St. Helen's, Lancashire	53° 28'	2° 45' "	151	F. Drew Harris, M.D., for the Corporation.	G.	00
St. Helier's, Jersey	49° 11'	2° 6' "	-	Signal Officer, Fort Regent	S.	00
St. Leonard's	50° 51'	0° 33' E.	178	H. Colborne, M.R.C.S., for the Corporation.	D. F.	00
" West Marina ..	50° 51'	0° 32' "	-	T. Eldridge, for the Corpo- ration.	G.	00
St. Peter Port, Guernsey ..	49° 32'	2° 32' W.	180	F. E. Carey, M.D.	S.	00
Salcombe, Devon	50° 14'	3° 46' "	-	Coastguard	W.	-
Sandgate, Kent	51° 4'	1° 9' E.	56	A. Robert Bowles, C.E. ..	R.	99
Scarborough	54° 18'	0° 24' W.	62	W. W. Larkin, for the Cor- poration.	D. F. S.	01
"	54° 17'	0° 23' "	-	Coastguard	W.	-
Schull"	51° 32'	9° 32' "	-	Coastguard	H.	90
Scilly Islands, St. Mary's ..	49° 56'	6° 18' "	65	A. Hicks	B. S. T.	00
Seafield, Co. Clare	52° 48'	9° 30' "	-	Coastguard	W.C.	-
Seaham Harbour	54° 53'	1° 19' "	148	G. H. Aird	D.	00
Seven Stones Lightship	50° 4'	6° 5' "	-	Light-keepers	W.	-
Shaftesbury	51° 1'	2° 12' "	722	Miss L. H. Harris	F.	01
Shambles Lightship	50° 31'	2° 20' "	-	Light-keepers	W.	-
Sheffield, Weston Park	53° 23'	1° 29' "	429	E. Howarth, F.R.A.S.	D. S.	01
" Attercliffe	53° 24'	1° 25' "	-	J. Robertson, M.D., B.Sc., for the Corporation.	S.	01
Sheephaven (Dunfanaghy) ..	55° 11'	7° 53' "	-	Coastguard	W.	-
Shields, North	55° 0'	1° 27' "	99	W. B. Clark	T.	01
" High Light- house	55° 0'	1° 27' "	-	T. Robson	B.	01
Shipwash Lightship	52° 2'	1° 38' E.	-	Light-keepers	W.	-
Skipton	53° 58'	2° 9' W.	567	W. Farmer	G.	99
Solway Lightship	54° 48'	3° 32' "	-	Light-keepers	W.	-
Southampton	50° 55'	1° 24' "	78	J. T. Cook and A. Vaughan, for Dir. Gen. of Ordnance Survey.	D. F. S.	00
Southport	53° 39'	2° 59' "	37	J. Baxendell, for the Cor- poration.	G. S.	97
South Rock Lightship	54° 25'	5° 22' "	-	Light-keepers	W.	-
Spiddal, Co. Galway	53° 15'	9° 17' "	-	Coastguard	H.	90
Spurn Head	53° 34'	0° 7' E.	26	A. S. Badcock	T.	01
Spurn Lightship	53° 34'	0° 13' "	-	Light-keepers	W.	-
Stokesay (Craven Arms) ..	52° 26'	2° 52' W.	370	Rev. W. La Touche, M.A., and Miss Tonkin.	D.	01
Stonyhurst College	53° 51'	2° 28' "	375	Rev. W. Sidgreaves	A. D. F.	01
Stornoway	58° 11'	6° 23' "	29	J. Mackenzie	T. S. C.	00
"	58° 11'	6° 22' "	-	Coastguard	W.	-
Stranraer	54° 54'	5° 2' "	-	Coastguard	H.	-
Strathpeffer Spa, N.B.	57° 37'	4° 28' "	253	J. Trégeelles Fox, M.D.	D. S.	01
Sumburgh Head (Shetlands) ..	59° 51'	1° 17' "	126	Rev. W. Brand	T. C.	01
Sunderland	54° 54'	1° 23' "	-	Coastguard	W.	-
Swarraton	51° 8'	1° 11' "	310	Rev. W. L. W. Eyre, M.A.	F.	00
Symbister, Shetlands	60° 14'	1° 25' "	-	J. S. Nicolson	H.	-
Syston, Leicester	52° 43'	1° 5' "	178	S. K. Daniels	R.	96

Appendix II.—Supply of Information to the Public.

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Station,	Lat.	Long.	Height in feet above M.S.L.	Observer.	Nature of Infor- mation supplied, see p. 58.	Year of last Inspection.
Tealby, Lincolnshire ..	53 24	0 16 W.	251	Rev. S. Lewin, B.A. ..	D.	00
Teelin, Co. Donegal ..	54 38	8 39 "	—	Coastguard ..	W.	—
Temple Bruer, Lincolnshire ..	53 4	0 30 "	—	Miss G. Morley ..	R.	99
Tenby	51 41	4 42 "	79	R. J. Truscott, for the Corporation.	S.	00
Thurcaston (Leicester) ..	52 42	1 10 "	253	Rev. T. A. Preston, M.A. ..	S.	96
Torquay	50 28	2 31 "	286	F. Marsh, for the Corporation.	S.	00
Totland Bay, Isle of Wight	50 41	1 33 "	84	J. Dover, M.A.	G.	00
Union Hall, Co. Cork ..	51 33	9 8 "	—	Coastguard	H.	90
Uzon (Montrose) ..	56 40	2 28 "	—	Coastguard	W.	—
Valencia Observatory, Cabiriveen.	51 56	10 15 "	30	J. E. Cullum	A. T. C.	01
" Island, Glauncam ..	51 56	10 30 "	—	Miss E. Fitzgerald ..	R.	01
" " Knightstown ..	51 55	10 20 "	—	Coastguard	H.	01
Ventnor	50 36	1 13 "	80	Miss M. Gibson	S.	97
Wakefield	53 41	1 30 "	96	A. Clyde	E.	99
Waterford	52 16	7 7 "	—	Harbour Authorities ..	C.	01
Watgate (Emsworth) ..	50 58	0 55 "	236	W. M. Christy ..	R. S.	99
Watford ..	51 39	0 24 "	253?	G. E. Eland ..	R.	—
Wessington Court (Woolhope).	52 1	2 35 "	—	S. Lomas, for Miss Grafton.	L.	01
Westbourne, Sussex ..	50 52	0 55 "	30	Rev. L. B. Birkett ..	S.	99
Whitchurch, Devon ..	50 32	4 6 "	593	E. E. Glyde	E.	01
Wick	58 27	3 6 "	80	J. Sinclair	T.	01
" Woburn (Ridgmont) ..	52 1	0 36 "	291	Coastguard	W.	—
Wolfelee	55 23	2 39 "	587	H. M. Freear ..	—	—
Woolacombe, Devon ..	51 10	4 12 "	59	W. Gordon	D.	98
Worksop	53 22	1 5 "	56	E. Henshall, C.E. ..	D.	01
Worthing	50 49	0 22 "	38	H. Mellish, J.P. ..	S.	99
C. Kelly, M.D., for the Corporation.						
Yarmouth, Norfolk ..	52 37	1 43 E.	10	G. T. Watson	B. T. C.	01
Yarmouth, Isle of Wight ..	50 42	1 29 W.	—	Coastguard	H.	—
Ynis-y-bro (Newport) ..	51 38	3 3 "	115	C. Cullum	R.	00
York, The Museum ..	53 57	1 5 "	56	H. M. Platnauer, B.Sc. ..	D.	01
" Bootham ..	53 57	1 5 "	105	Hugh Richardson, M.A. ..	S.	01

In addition to those already mentioned, reports are received daily from the following Continental Stations.

Station.	Authority	Station.	Authority.
Haparanda	{ Meteorological	†The Helder	
Hernösand	Office, Stock-	Brussels	
Stockholm	holm.	Cape Gris Nez	
Wisby		†Brest (St. Mathieu) ..	
Karlstad		Lorient (Ile de Groix) ..	Bureau Central
Bodö	{ Meteorological	†Rochefort (Ile d'Aix) ..	Météorologique,
Christiansund	Institute,	†Biarritz	Paris.
†Skudenesnæs	Christiania.	Paris	
Færder		Belfort	
The Seaw	{ Meteorological	Lyons	
Fanø	Institute,	Nice	
Cuxhaven	Copenhagen.	Perpignan	
	Deutsche See-	Berlin	Deutsche See-
	warte, Ham-	Frankfort	warte, Ham-
	burg.	Munich	burg.
		Corunna	
		Lisbon (P. Delgadó) ..	Observatory,
			Lisbon.

Note.—The stations marked with an asterisk (*) report also at 2h. p.m., and those with dagger (†) at 6h. p.m.; Lisbon reports at 4h. p.m. instead of 6h. p.m.
The Helder does not send reports at 6 p.m. on Sundays.

LIST OF BRITISH STATIONS ARRANGED UNDER COUNTIES.

County.	Station.	Nature of the Information supplied <i>see p. 58.</i>	County.	Station.	Nature of the Information supplied <i>see p. 58.</i>
England :—			England— <i>cont.</i>		
Bedford ..	Aspley Guise ..	S.	Lancashire ..	Manchester, Prestwich.	D. F. S.
Berkshire ..	Ridgmont ..	D.	St. Helen's ..	G.	
Buckingham ..	Maidenhead ..	G.	Southport ..	G. S.	
Cambridge ..	Cambridge ..	D. S.	Stonyhurst ..	A. D. F.	
Cheshire ..	Bidston ..	D. T.	Belvoir Castle ..	D.	
Chester, Hawarden ..	Chester, Hawarden ..	F. C.	Loughborough ..	T.	
Chester, H. ..	Bridge.		Syston ..	R.	
Cornwall ..	Hoylake ..	S.	Thurcaston ..	S.	
	Falmouth ..	A. F.	Caistor ..	R.	
	Newquay ..	S.	Fulbeck ..	C. D.	
	Do. ..	W.	Mareham-le-Fen ..	R.	
	Scilly ..	B. C. S.	Rauceby ..	G.	
Cumberland ..	Aspatria ..	D. S.	Tealby ..	D.	
Derby ..	Newton Reigny ..	C. S. T.	Temple Bruer ..	R.	
Devon ..	Buxton ..	E.	Harefield ..	R.	
	Chatsworth ..	C. G.	London :—		
	Arlington ..	F.	Chelsea ..	R.	
	Cullompton ..	F. S.	City ..	S.	
	Plymouth ..	D. F. S.	Hampstead ..	C.	
	Rousdon ..	E.	Pall Mall ..	C.	
	Salcombe ..	W.	Westminster ..	G. S.	
	Torquay ..	S.	Do. ..	C.	
	Whitchurch ..	E.	Monmouth ..		
	Woolacombe ..	D.	Newchurch ..	R.	
Dorset ..	Parkstone ..	D.	Newport ..	R.	
	Portland Bill ..	T.	Pant-y-reos ..	R.	
	Shaftesbury ..	F.	Ynys-y-bro ..	R.	
Durham ..	Durham ..	D. F. S.	East Dereham ..	R.	
	Seaham ..	D.	Geldeston ..	D. F. S.	
	Sunderland ..	W.	Hillington ..	D. F. S.	
Essex ..	Clacton-on-Sea ..	T. S.	Yarmouth ..	B. C. T.	
Gloucester ..	Dunmow ..	D. F. S.	Colly Weston ..	F.	
	Cheltenham ..	E.	Alnwick Castle ..	B. F.	
	Cirencester ..	F. S.	Cockle Park, Morpeth.	D. S.	
	Clifton ..	F.	Newcastle-on-Tyne ..	G. S.	
	Dursley ..	R.	Newton Hall ..	R.	
	Hidcote ..	R.	North Shields ..	B. T.	
Hampshire ..	Bournemouth ..	S.	Hesley Hall, Bawtry ..	F.	
	Haslar ..	H.	Worksop ..	S.	
	Southampton ..	D. F. S.	Oxford ..	S. T.	
	Swarraton ..	F.	Rutland ..	R.	
	Totland Bay ..	G.	Ketton ..	R.	
	Ventnor ..	S.	Shropshire ..	R.	
Hereford ..	Yarmouth ..	H.	Somerset ..	D.	
	Hereford ..	F.	Stafford ..	S. T.	
Hertford ..	Wessington Court ..	D.	Suffolk ..	E. F.	
	Bennington ..	E.		R.	
	Berkhamsted ..	E.		F. S.	
	Rothamsted ..	F. G. S.		H.	
Huntingdon ..	Watford ..	R.		D. S.	
Kent ..	Broadstairs ..	S.		E. S.	
	Canterbury ..	D.		H.	
	Chatham ..	G.		D.	
	Dover ..	R.		T.	
	Dungeness ..	T.		A.	
	Kearsney ..	R.		E.	
	Do. (The Abbey) ..	R.		R.	
	Littlestone-on-Sea ..	G. S.		B.	
	Margate ..	S.		E. R.	
	Plumstead ..	S.		R.	
	Sandgate ..	R.		D. S.	
Lancashire ..	Blackpool ..	F. S.		R.	
	Bolton ..	G.		S.	
	Darwen ..	G. S.		R.	
	Fleetwood ..	B.		D. S.	
	Lytham ..	D. S.		R.	
	Manchester ..	D. S.		S.	
	Do. Whitworth Park ..	D. S.		R. S.	

Appendix II.—Supply of Information to the Public.

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County,	Station.	Nature of the Information supplied, see p. 56.	County.	Station.	Nature of the Information supplied, see p. 56.
England—cont.			Scotland—cont.		
Sussex—cont.			Cromarty ..	Cromarty ..	W.
Warwick ..	Werthing ..	S.	Dumbarton ..	Strathpeffer Spa ..	D. S.
	Birmingham, Edgbaston.	D. S.	Dumfries ..	—	—
Westmoreland ..	Rugby ..	G.	Edinburgh ..	—	—
	Kirkby Lonsdale ..	R.	Edinburgh ..	Edinburgh ..	S.
	Do. Norwood ..	R.	Leith	T.
Wiltshire ..	—	—	Rosewell	E.
Worcester ..	Roebrook ..	C. R.	Elgin ..	—	—
Yorkshire ..	Ampleforth ..	D.	Fife ..	Burntisland ..	W.
	Aysgarth ..	D.	Forfar ..	Dundee ..	D. S.
	Harrrogate ..	R. S.	—	Lednathie ..	E.
	Northallerton ..	R.	Haddington ..	Uzon ..	W.
	Oswaldkirk ..	S.	Inverness ..	—	—
	Rounton ..	E.	Ben Nevis ..	Ben Nevis ..	A. E.
	Scarborough ..	D. F. S.	Fort Augustus ..	Fort Augustus ..	E. F. S.
	Do. ..	W.	Fort William	A. F.
	Sheffield ..	D. S.	Cove Bay	W.
	Do. Attercliffe ..	S.	Kincardine ..	—	—
	Skipton ..	G.	Kinross ..	Cally ..	E. F.
	Spurn Head ..	T.	Kirkcudbright ..	Carogen ..	E.
	Wakefield ..	E.	—	Glenlee ..	E. F.
	York, The Museum ..	D.	Lanark ..	Glasgow ..	A. D. F.
	" Bootham ..	S.	Linlithgow ..	—	—
Wales:—	—	—	Nairn ..	Nairn ..	T.
Anglesey ..	Holyhead Harbour Office, (Sailors' Home),	B. W.	Orkney ..	Deerness ..	B. D. S.
	Do. ..	T.	Peebles ..	Kirkwall ..	W.
Brecknock ..	—	—	Perth ..	Forgandenny ..	C.
Cardigan ..	—	—	Renfrew ..	Uchtertyre ..	E. F.
Carmarthen ..	Llandovery ..	F.	Ross ..	—	—
Carnarvon ..	Llandudno ..	E. F. S.	Roxburgh ..	Ardross Castle ..	R.
	Penrhyn Quarry ..	R.		Glencarron ..	E. F.
	Bettws-y-Coed ..	R.		Kinlochewe ..	R.
Denbigh ..	Colwyn Bay ..	S.		Stornoway ..	C. S. T.
Flint ..	Penbedw ..	C.		Do. ..	W.
	Rhyl ..	S.		Wolfeloc ..	D.
Glamorgan ..	Port Talbot ..	S.	Roxburgh ..	Lerwick ..	W.
Merioneth ..	Aberdovey ..	S.	Selkirk ..	Sumburgh Head ..	C. T.
Montgomery ..	Chur-hstoke ..	D. F. S.	Shetlands ..	Symbister ..	H.
Pembroke ..	Llandaff ..	R.	Sterling ..	—	—
	Haverfordwest ..	S. W.	Sutherland ..	Dunrobin Castle ..	D.
	St. Ann's Head ..	T. S. W.		Loire ..	E. F.
	St. David's ..	D.		Wigton ..	H.
Radnor ..	Tenby ..	S.	Ireland:—	Stranraer ..	—
	Dissert ..	R.	Antrim ..	Belfast ..	D.
Islands:—	—	—		Glenarm ..	R.
Isle of Man ..	Cronkbourne ..	D. F. S.		Do. ..	H.
Jersey ..	St. Aabin's ..	T.		Portrush ..	W.
Guernsey ..	St. Helier's ..	S.	Armagh ..	—	B. D. F. S.
	St. Peter Port ..	S.	Carlow ..	—	—
Scotland:—	—	—	Cavan ..	Ennis ..	R.
Aberdeen ..	Aberdeen ..	A. T. C.	Clare ..	Ennstymon ..	R.
	Do. ..	W.		Hurdlestow ..	R.
	Braemar ..	D. F. S.		Kilerecane ..	W.
	Pennant Bay ..	W.		Lahinch ..	R.
Argyll ..	Gruline, Isle of Mull ..	R.		Liscannor ..	W.
	Landale ..	D. F.	Cork ..	Lisdoonvarna ..	G.
	Machrihanish ..	G.		Mount Callan ..	R.
	Tollalloch ..	E.		Newmarket-on-Feignes ..	R.
Ayr ..	Ballantrae ..	W.		Seafield ..	W.
	Pinmore ..	E.		Ballydonegan ..	W.
Banff ..	Gordon Castle ..	E.		Baltimore ..	H.
Berwick ..	Burnmouth ..	W.		Crookhaven ..	H.
Bute ..	Marchmont ..	E. F. S.		Crosshaven ..	H.
	Iamlash ..	W. H.		Doneraile ..	R.
	Rothesay ..	E.		Roche's Point ..	T.
Caithness ..	Wick ..	T.		Schull ..	H.
	Do. ..	W.	Donegal ..	Union Hall ..	C. T.
Clackmannan ..	—	—		Malin Head ..	W.
	—	—		Sheep Haven ..	W.
	—	—		Teelin ..	W.
	—	—		Donaghadee ..	T.

County.	Station.	Nature of the Infor- mation supplied, see p. 56.	County.	Station.	Nature of the Infor- mation supplied, see p. 56.
Ireland—cont. Dublin ..	Dublin (City) .. Do. (Phoenix Park) Do. (Botanic Gds.) Killiney .. Kingstown .. Do. Sandy Cove.	D. F. B. D. S. D. R. B. G. S. W.	Ireland—cont. Limerick ..	Adare .. Corbally, Limerick .. Foynes .. Roxborough .. Londonderry .. Longford .. Louth .. Mayo ..	R. R. F. R. F. — — W. T. W. R.
Fermanagh Galway ..	Arran .. Cleggan .. Recess .. Spiddal .. Killarney .. Minard .. Valencia .. Do. Glanleam .. Do. Knightstown ..	H. W. W. R. H. F. G. W. A. T. C. R. H.	Meath .. Monaghan .. Queen's County .. Roscommon .. Sligo .. Tipperary .. Tyrone .. Waterford .. Westmeath .. Wexford .. Wicklow ..	Markree Castle .. Cahir .. Lissan .. Omagh .. Waterford .. — Bray .. Newcastle ..	D. F. S. S. E. F. C. — H. D.
Kildare .. Kilkenny .. King's Co. Leitrim ..	Kilkenny .. Birr Castle .. Carraigallen ..	C. F. D. S. T. R.			

NOTE.—Light-vessels are not included in the above list.