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## **Met Office Annual Report 1912-1913**

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FIFTH ANNUAL REPORT  
OF THE  
METEOROLOGICAL COMMITTEE  
TO THE  
LORDS COMMISSIONERS OF HIS MAJESTY'S  
TREASURY.

For the Year ended 31st March, 1910.

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

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Plate VIII.

REPORT OF THE METEOROLOGICAL COMMITTEE 1909-1910.  
Map showing Positions of Climatological Stations.



Ordnance Survey Southampton, 1910.

The heights of the stations above Mean Sea Level are inserted against the positions, and will serve to identify the names of the stations as given in the List of Stations on pp.

## I.—OBSERVATORIES AND STATIONS IN CONNEXION WITH THE METEOROLOGICAL OFFICE.

### CENTRAL OBSERVATORY.

Kew Observatory, Old Deer Park, Richmond, Surrey.

*Superintendent : C. Chree, LL.D., Sc.D., F.R.S., Assistant Director of Observatories.*

Telegraphic Address : "Weather, Richmond, Surrey."

### MAGNETIC OBSERVATORY.

Eskdalemuir Observatory, Langholm.

*Superintendent : G. W. Walker, M.A.*

### WESTERN OBSERVATORY.

Valencia Observatory, Cahirciveen, Ireland.

*Superintendent : J. E. Cullum.*

Kew Observatory was built in 1769 as a private observatory and an astronomical and physical laboratory for King George III. The building was placed at the disposal of the British Association in 1842 and taken over by the Royal Society of London in 1871. The Observatory formed a department of the National Physical Laboratory from 1900 to 1910, and passed under the management of the Meteorological Office from July 1, 1910. Besides the work of a normal meteorological observatory (station of the first order of the international classification), the observatory undertakes experimental and research work in Meteorology, including Atmospheric Electricity, Terrestrial Magnetism, and Seismology.

Eskdalemuir Observatory was established by Government to continue the work of recording the magnetic elements which had been carried on at Kew Observatory and had been disturbed by electric tramways. It was opened in 1908. The work of the observatory includes routine work and experimental research in Terrestrial Magnetism, Atmospheric Electricity and Meteorology, as well as the maintenance of several Seismographs.

Valencia Observatory was established by the Meteorological Office in 1867 on Valencia Island. In 1891 it was transferred to Westwood House, Cahirciveen. Besides the work of a First Order Station and a Telegraphic Reporting Station, regular observations of magnetic force are made by arrangement with a committee organised by the late Earl of Rosse.

Other stations in connexion with the Office are shown in the list which follows on p. 68.

The returns from stations marked "S" are supplied by the Scottish Meteorological Society, those marked "R" by the Royal

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Meteorological Society. Stations marked respectively "M" or "S" are in connexion with the Societies as well as with the Office.

The list shows the order of classification of the stations and also the publication for which the returns are prepared in the Office. In specifying the order of the station a distinction has been drawn between eye observations and the records of autographic instruments. In general the returns received have formed the basis for the classification, but in cases in which more extensive observations are taken, but not forwarded to the Office, the corresponding symbol has been enclosed in brackets. The list makes no pretence to completeness in respect of these. The symbols used are explained as follows :—

- I. Normal Meteorological Observatory : Station of the First Order.—Continuous records or hourly readings of pressure, temperature, wind, sunshine, and rain, with eye observations of the amount, form, and motion of the clouds, and notes on the weather. The autographic records are checked by frequent eye observations, and hence the symbol "I" has been entered in the table under both "Eye observations" and "Autographic."
- II. Normal Climatological Station : Station of the Second Order.—Daily observations at 9 a.m. [3 p.m.] and 9 p.m. local time (or other accepted combinations of hours) of pressure, temperature (wet and dry-bulb), wind, amount of cloud, and weather, with the daily maximum and minimum of temperature, the daily rainfall, and remarks on the weather. Stations at which the additional observation at 3 p.m. is taken are distinguished by appending a suffix <sub>3</sub> to the symbol, thus—II<sub>3</sub>.
- III. Auxiliary Climatological Station : Station of the Third Order.—Observations similar in kind to those at the Normal Stations, but either (a) less full, (b) taken only once daily, (c) taken at hours other than 9 a.m. and 9 p.m.
- T. Telegraphic Reporting Station.—Daily observations at 7 a.m., 1 p.m., and 6 p.m. G.M.T., similar in general character to those taken at Normal Climatological Stations, reported to the Office each day by telegraph. At some telegraphic stations an additional observation is taken at 9 p.m., and as the combination of hours 7 a.m., 1 p.m., 9 p.m. is accepted as suitable for stations of the Second Order of the international classification, these stations are distinguished by the two symbols T II<sub>3</sub>.
- . (Eye Observations.) Additional Rainfall Station.—Daily observations, generally at 9 a.m., of the amount of rainfall.
- ↗. Additional Anemograph Station.—Continuous records of wind velocity (force) and, in most cases, also of wind direction.
- B. Additional Barograph Station.—Continuous record of atmospheric pressure.

- e. Additional Thermograph Station.—Continuous record of atmospheric temperature.
- (Autographic.) Additional Autographic Rain-gauge Station.—Continuous record of rainfall.
- H. Hygrograph Station.—Continuous record of the relative humidity of the air.
- O. Sunshine Station.—Continuous record of bright sunshine taken with a Campbell-Stokes recorder.
- K. Kite or Balloon Station.—Records of Temperature, Humidity and Wind in the upper air.

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

- D. Published *in extenso* in the “Daily Weather Report.”
- d. Published in abridged form in the “Daily Weather Report.”
- W. Weekly summary of temperature and rainfall and, if available, of sunshine, published in the “Weekly Weather Report.”
- w. Weekly summary of bright sunshine only, or of grass minimum, or earth temperatures, or of observations in the upper air, published in the “Weekly Weather Report.”
- M. Full monthly summary in the international form published in the “Monthly Weather Report.”
- m. Abridged monthly summary published in the “Monthly Weather Report.”
- (m.) Monthly totals of bright sunshine only or of rainfall only, published in the “Monthly Weather Report.”
- S. Daily values published in “Observations at Stations of the Second Order” (1910).
- R. Monthly summary published in the Reports of the Registrar General of Births, Deaths, and Marriages for England and Wales, or for Ireland.
- r. Weekly summary published in the Reports of the Registrar General for England and Wales, or for Ireland.
- ¶. Daily summary of anemometer results published in “Observations at Stations of the Second Order and at Anemograph Stations.”

**Height above Mean Sea Level.**—The figures given in this column refer in general to the height of the ground on which the rain-gauge stands. At those stations which do not possess a rain-gauge, the figures refer to the height of the particular instrument in use.

The positions of the climatological and rainfall stations may be identified on the map, plate VIII., p. 64, from the figures which give their heights above Mean Sea Level, as shown in the following list.

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\* \* From a number of stations in the British Isles printed summaries of observations are received. These have been included in the Geographical list of Institutions, &c., which issue publications (Appendix VII. to the Annual Report of the Meteorological Committee).

The following make monthly returns in a form similar to that in which observations are received from the normal or auxiliary climatological stations :—

Bolton.—The Museums and Meteorological Observatory.

Croydon.—Natural History Society.

Northampton.—Natural History Society.

Truro.—Cornwall County Council Sanitary Committee.

## LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES.

The Counties are grouped in Districts which are numbered as follows :—

- |                     |  |  |                       |  |  |
|---------------------|--|--|-----------------------|--|--|
| 0. Scotland, N.     | <i>{(a) Islands.<br/>(b) Mainland.}</i>            | 5. England, S.E.                           | <i>London County.</i> | 9. Ireland, N.                         | <i>{(a) Western Part.<br/>(b) Eastern Part.}</i> |
| 1. Scotland, E.     |  | 6. (a) Scotland, W., and (b) Isle of Man.  |                       | 10. Ireland, S.                        | <i>{(a) Eastern Part.<br/>(b) Western Part.}</i> |
| 2. England, N.E.    | <i>{(a) Northern Part.<br/>(b) Southern Part.}</i> | 7. (a) England, N.W., and (b) North Wales. |                       | 11. English Channel (Western Section). |  |
| 3. England, E.      | <i>{(a) Northern Part.<br/>(b) Southern Part.}</i> | 8. (a) South Wales and (b) England, S.W.   |                       |  |  |
| 4. Midland Counties | <i>{(a) Eastern Part.<br/>(b) Western Part.}</i>   |  |                       |  |  |

| County and Station          | Lat.                      | Long. | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspection. | Observer.   |  |  |  |  |  |  |
|-----------------------------|---------------------------|-------|--------------------------------------|-------------------|--------------|--------------|--------------------------------|---|--|--|--|--|--|--|
|                             |                           |       |                                      | Eye Obs.          | Autographic. |              |                                |   |  |  |  |  |  |  |
| <b>0. SCOTLAND, NORTH.*</b> |                           |       |                                      |                   |              |              |                                |   |  |  |  |  |  |  |
| <i>(a.) Islands.</i>        |                           |       |                                      |                   |              |              |                                |   |  |  |  |  |  |  |
| Hebrides :—                 | Castlebay, Barra Isle ... | 56 57 | 7 29 W.                              | 38                | T II,        | B ○          | D.W.M.                         | 09 J. Smith, for M.O.   |  |  |  |  |  |  |
|                             | Stornoway ...             | 58 11 | 6 22 W.                              | 51                | T II,        | B ○          | D.W.M.                         | 09 W. Grant, for M.O.   |  |  |  |  |  |  |
| Shetlands :—                | S. Baltasound ...         | 60 44 | 0 48 W.                              | 31                | III          | ○            | W.m.                           | 09 J. Edmonston Saxby, F.R.C.S., Ed.                                |  |  |  |  |  |  |
|                             | Lerwick ...               | 60 9  | 1 8 W.                               | —                 | —            | B            | —                              | 09 G. Gray, Harbour Master.   |  |  |  |  |  |  |
| Orkney :—                   | Sumburgh Head ...         | 59 51 | 1 17 W.                              | 112               | T II,        | B            | D.W.M.                         | 09 Rev. W. Brand, for M.O.  |  |  |  |  |  |  |
|                             | Deerness ...              | 58 56 | 2 45 W.                              | 160               | II           | ■ ○          | w.M.S.                         | 09 M. Spence.   |  |  |  |  |  |  |
| <i>(b.) Mainland.</i>       |                           |       |                                      |                   |              |              |                                |   |  |  |  |  |  |  |
| Caithness :—                | Sandside, Reay ...        | 58 34 | 3 48 W.                              | 55                | ●            | —            | —                              | Nicol McNicol.  |  |  |  |  |  |  |
|                             | Wick ...                  | 58 27 | 3 6 W.                               | 80                | T            | B            | D.W.M.                         | 09 Miss Sinclair, for M.O.  |  |  |  |  |  |  |
| Cromarty :—                 | Strathpeffer Spa ...      | 57 37 | 4 28 W.                              | 200               | II           | ○            | W.M.d.                         | 08 N. McLean, for H. W. Kaye, B.A., M.B.                            |  |  |  |  |  |  |
| Inverness :—                | Fort Augustus ...         | 57 8  | 4 40 W.                              | 68                | II           | ○            | W.M.                           | 07 Rev. C. von Dieckhoff, O.S.B. and Rev. Ambrose Geoghegan, O.S.B. |  |  |  |  |  |  |
|                             | Fort William ...          | 56 49 | 5 7 W.                               | 175               | II           | —            | W.M.                           | 07 W. T. Kilgour.   |  |  |  |  |  |  |

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

|                    |                                  |       |         |         |       |      |        |      |  |  |
|--------------------|----------------------------------|-------|---------|---------|-------|------|--------|------|--|--|
| Ross :—            | Lochboisdale ...                 | ...   | 57 10   | 7 20 W. | —     | —    | B      | —    | —  | Arch. MacLennan.   |
|                    | Ardross Castle ...               | ...   | 57 45   | 4 21 W. | 449   | ●    | —      | —    | —  | W. Laing Minty.  |
|                    | S. Fortrose ...                  | ...   | 57 35   | 4 8 W.  | 80    | III  | ○      | —    | —  | Archd. Thom, M.A.  |
|                    | §Glencarron ...                  | ...   | 57 30   | 5 14 W. | 489   | II   | —      | W.M. | 07   | D. D. Munro.   |
|                    | Kinlochewe ...                   | ...   | 57 36   | 5 24 W. | —     | ●    | —      | —    | —  | A. McLennan, for Hon. W. Peel, M.P.                      |
| Sutherland :—      | §Dunrobin Castle                 | ..    | 57 59   | 3 56 W. | 12    | II   | —      | M.S. | 09   | D. Melville, for the Duke of Sutherland, K.G.            |
| 1. SCOTLAND, EAST. |                                  |       |         |         |       |      |        |      |  |  |
| Aberdeen :—        | Aberdeen Observatory             | 57 10 | 2 6 W.  | 46      | I, T  | I, B | D.W.M. | 09   | Professor C. Niven, F.R.S., and G. A. Clarke, for M.O. |  |
|                    | §Balmoral ...                    | ...   | 57 2    | 3 12 W. | 920   | III  | —      | W.M. | 08   | J. Michie, M.V.O., and John M. Troup.                    |
|                    | Dyce ...                         | ...   | 57 13   | 2 10 W. | 149   | ●    | —      | —    | —  | James E. Crombie, LL.D.                                  |
|                    | §Tillypronie ...                 | ...   | 57 10   | 2 56 W. | 1,116 | II   | —      | M.S. | 09   | Robert Littlejohn, for the late Sir John F. Clark, Bart. |
| Banff :—           | §Gordon Castle ...               | ...   | 57 37   | 3 5 W.  | 101   | II   | ○      | W.M. | 08   | C. Webster, for the Duke of Richmond and Gordon, K.G.    |
| Berwick :—         | §Marchmont ...                   | ...   | 55 44   | 2 25 W. | 498   | II   | ○      | W.M. | 07   | J. A. Wood, for Sir J. H. Hume Campbell, Bart.           |
| Clackmannan :—     | No station.                      |       |         |         |       |      |        |      |  | The Astronomer Royal.                                    |
| Edinburgh :—       | Edinburgh, Royal Observatory.    | 55 57 | 3 12 W. | 441     | —     | ■    | —      | —    | —  | The Regius Keeper.                                       |
|                    | Edinburgh, Royal Botanic Garden. | 55 57 | 3 12 W. | 253     | —     | ○    | w.(m.) | —    | —  | D. Drummond, Post Office, for M.O.                       |
| Elgin :—           | No station.                      |       |         |         |       |      |        |      |  | G. Davie, for J. Martin White.                           |
| Fife :—            | No station.                      |       |         |         |       |      |        |      |  | J. Carnochan.  |
| Forfar :—          | S. Balruddery ...                | ...   | 56 29   | 3 8 W.  | 276   | III  | ○      | w.m. | 07   |  |
|                    | §Dundee ...                      | ...   | 56 28   | 2 56 W. | 160   | II   | —      | M.S. | 09   |  |
| Haddington :—      | No station.                      |       |         |         |       |      |        |      |  |  |
| Kincardine :—      | S. Crathes ...                   | ...   | 57 3    | 2 25 W. | 140   | III  | ○ Θ B  | w.m. | 08   | J. Smith.  |
|                    | Stonehaven ...                   | ...   | 56 58   | 2 13 W. | 786   | III  | ○      | d.m. | 08   | J. Hart, for Town Clerk.                                 |

\* Note.—The parts of this district forming section (a) Islands, include the Shetlands, the Orkneys, and the Hebrides. The latter form part of the counties Inverness and Ross.

The names of Stations added to the list since April, 1909, are printed in clarendon type. The positions of the Stations can be identified on the map, Plate VIII., p. 64, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                       | Lat.                         | Long.     | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer  |
|---|------------------------------|-----------|--------------------------------------|-------------------|--------------|--------------|-------------------------------------|---|
|   |                              |           |                                      | Eye Obs.          | Autographic. |              |                                     |   |
| <b>1. SCOTLAND, EAST—<i>cont.</i></b>     |                              |           |                                      |                   |              |              |                                     |   |
| Kinross :— No station.                    |                              |           |                                      |                   |              |              |                                     |   |
| Linlithgow :— No station.                 |                              |           |                                      |                   |              |              |                                     |   |
| Nairn :— Nairn ... ...                    | 57° 36'                      | 3° 52' W. | 82                                   | T                 | ○            | D.W.M.       | 09                                  | Miss Penny, for M.O. and Dr. Sclanders.                 |
| Peebles :— S. West Linton ... ...         | 55° 45'                      | 3° 4' W.  | 800                                  | III               | ○            | W.m.         | 08                                  | Rev. J. S. Begg.  |
| Perth :— Crieff ... ...                   | 56° 22'                      | 3° 50' W. | 440                                  | II                | —            | W.M.         | 07                                  | George Reid, for Dr. Meikle.                            |
|   | Forgandenny ...              | 56° 21'   | 3° 29' W.                            | 175               | B ●          | —            | —                                   | Miss M. Wood.   |
| Roxburgh :— No station.                   |                              |           |                                      |                   |              |              |                                     |   |
| Selkirk :— No station.                    |                              |           |                                      |                   |              |              |                                     |   |
| <b>2. ENGLAND, NORTH EAST.</b>            |                              |           |                                      |                   |              |              |                                     |   |
| (a) <i>Northern Part.</i>                 |                              |           |                                      |                   |              |              |                                     |   |
| Durham :— Durham ... ...                  | 54° 46'                      | 1° 35' W. | 336                                  | II                | ○            | W.M.R.       | 09                                  | Prof. R. A. Sampson, M.A., F.R.S.                       |
|   | Seaham Harbour ...           | 54° 50'   | 1° 19' W.                            | 139               | II           | M.           | 07                                  | G. H. Aird.   |
| Northumber-<br>land :— Alnwick Castle ... | 55° 25'                      | 1° 43' W. | 210                                  | III               | —            | W.m.         | 09                                  | Robert Kyle, for the Duke of Northumberland, K.G.       |
|   | Cockle Park, Morpeth         | 55° 13'   | 1° 41' W.                            | 324               | II           | ○            | W.M.S.R.                            | 09  |
|   | Font Watershed, Dam<br>Site. | 55° 14'   | 1° 54' W.                            | 620               | ●            | —            | —                                   | T. E. W. Dobson, for the Northumberland County Council. |
|   | Heddon-on-the-Wall ...       | 55° 0'    | 1° 47' W.                            | 400               | ●            | —            | —                                   | H. G. Coventry, C.E., for the Corporation of Tynemouth. |
|   | Newcastle-on-Tyne ...        | 54° 59'   | 1° 36' W.                            | 152               | III          | ○            | w.m.                                | Rev. W. G. Pringle.                                     |
|   | North Shields ...            | 55° 0'    | 1° 27' W.                            | 96                | T            | B            | D.W.M.R.r.                          | N. H. Martin, F.R.S.E., F.C.S.                          |
|   |                              |           |                                      |                   |              |              | 09                                  | R. Mont, Post Office, for M.O.                          |

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

|                           |                                   |       |         |     |     |       |          |    |  |                           |
|---------------------------|-----------------------------------|-------|---------|-----|-----|-------|----------|----|--|---------------------------|
|                           | North Shields High<br>Lighthouse. | 55 0  | 1 27 W. | —   | —   | —     | —        | —  | 09   | Capt. T. Robson, for M.O. |
| Yorkshire, N.<br>Riding:— | Tynemouth ...                     | 55 1  | 1 26 W. | 90  | II, | ○     | d.       | 09 | J. Edward Burnett.   |                           |
|                           | Ampleforth ...                    | 54 12 | 1 6 W.  | 349 | II  | —     | m.       | 09 | Rev. D. Barton, O.S.B.   |                           |
|                           | Hovingham Hall ...                | 54 10 | 0 59 W. | 120 | ●   | —     | —        | —  | Bingley Day, for Sir W. H. A.<br>Worsley, Bart.                    |                           |
|                           | Rounton ...                       | 54 24 | 1 18 W. | 249 | II  | —     | W.M.     | 08 | J. Hanagan, for Sir Hugh Bell,<br>Bart.                            |                           |
|                           | M. Scarborough ...                | 54 18 | 0 24 W. | 100 | II  | ○○    | d.W.M.   | 08 | W. W. Larkin, for the Corporation.                                 |                           |
|                           | Whitby ...                        | 54 29 | 0 37 W. | 88  | II  | —     | M.       | 07 | Thos. Newbitt, for the Literary<br>and Philosophical Society.      |                           |
|                           | York. Deighton Grove              | 53 54 | 1 3 W.  | 38  | ●   | —     | —        | 05 | Miss M. L. Whitehead.  |                           |
|                           | „ The Museum ...                  | 53 57 | 1 5 W.  | 56  | II  | —     | W.M.R.r. | 07 | Oxley Grabham, M.A., for the York-<br>shire Philosophical Society. |                           |
| Yorkshire, E.<br>Riding:— | Bootham ...                       | 53 57 | 1 5 W.  | 105 | —   | ○     | —        | 07 | Hugh Richardson, M.A.  |                           |
|                           | Bridlington (Grammar<br>School).  | 54 5  | 0 13 W. | 56  | III | (B) ○ | —        | 08 | A. Thornton, M.A.  |                           |
|                           | Hall ...                          | 53 45 | 0 16 W. | 2   | II  | ○     | M.R.r.w. | 08 | H. B. Witty, for the Corporation.                                  |                           |
|                           | Spurn Head ...                    | 53 34 | 0 7 E.  | 26  | T   | B     | D.W.M.R. | 09 | J. E. Ayers, for M.O.  |                           |
| (b) Southern Part.        |                                   |       |         |     |     |       |          |    |  |                           |
| Lincolnshire:—            | Claypole ...                      | 53 2  | 0 46 W. | 70  | ●   | —     | —        | —  | Rev. F. Hamilton.  |                           |
|                           | Fulbeck ...                       | 53 3  | 0 37 W. | 180 | III | B ○   | W.m.     | 07 | Rev. Vere F. Willson, M.A.   |                           |
|                           | Lincoln ...                       | 53 14 | 0 33 W. | 58  | III | —     | W.m.R.   | 09 | W. Barr, for the Corporation.                                      |                           |
|                           | Mareham-le-Fen ...                | 53 8  | 0 5 W.  | 10  | ●   | —     | —        | 01 | Mrs. G. L. Kime.   |                           |
|                           | Rauceby Hall ...                  | 53 0  | 0 29 W. | 124 | III | ○     | w.m.     | 09 | J. Hope, for General Sir M.<br>Willson, K.C.B.                     |                           |
|                           | Skegness ...                      | 53 9  | 0 21 E. | 12  | III | ○     | d.w.M.   | 08 | S. Coetmore Jones, for the Dis-<br>trict Council.                  |                           |
|                           | Tealby ...                        | 53 24 | 0 16 W. | 251 | II  | —     | m.       | 09 | Rev. S. Lewin, B.A.  |                           |
|                           | Temple Bruer ...                  | 53 4  | 0 30 W. | —   | ●   | —     | —        | 03 | Miss Alice S. Morley.  |                           |

The names of Stations added to the list since April, 1909, are printed in clarendon type. The positions of the Stations can be identified on the map, Plate VIII., p. 64, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station,       | Lat.                  | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |             | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer. |   |  |  |  |  |  |
|---------------------------|-----------------------|---------|--------------------------------------|-------------------|-------------|--------------|-------------------------------------|-----------|---|--|--|--|--|--|
|                           |                       |         |                                      | Eye Obs.          | Autographic |              |                                     |           |   |  |  |  |  |  |
| <b>3. ENGLAND, EAST.</b>  |                       |         |                                      |                   |             |              |                                     |           |   |  |  |  |  |  |
| (a) <i>Northern Part.</i> |                       |         |                                      |                   |             |              |                                     |           |   |  |  |  |  |  |
| Norfolk :—                | Cromer ...            | 52 56   | 1 17 E.                              | 196               | II          | ○            | W.M.R.                              | 06        | W. H. Archer, for Urban District Council.                 |  |  |  |  |  |
|                           | Geldiston ...         | 52 23   | 1 31 E.                              | 37                | II          | ○ (B)        | W.M.                                | 09        | E. T. Dowson.   |  |  |  |  |  |
|                           | Hillington ...        | 52 48   | 0 33 E.                              | 88                | II          | ○            | W.M.S.R.                            | 08        | Rev. H. E. B. Ffolkes, M.A.                               |  |  |  |  |  |
| M. Norwich ...            | 52 37                 | 1 17 E. | 93                                   | III               | —           | —            | W.R.R.M.                            | 08        | A. W. Preston.  |  |  |  |  |  |
| Thetford ...              | 52 25                 | 0 45 E. | 169                                  | ●                 | —           | —            | —                                   | —         | E. S. Greenwood, for Town Council.                        |  |  |  |  |  |
| Yarmouth ...              | 52 37                 | 1 43 E. | 17                                   | T, II,            | B           | ○            | D.W.M.                              | 09        | Coastguard, for M.O. and for Corporation.                 |  |  |  |  |  |
| , Gorleston ...           | 52 35                 | 1 43 E. | 10†                                  | —                 | —           | —            | —                                   | 09        |   |  |  |  |  |  |
| (b) <i>Southern Part.</i> |                       |         |                                      |                   |             |              |                                     |           |   |  |  |  |  |  |
| Bedford :—                | Aspley Guise ...      | 52 1    | 0 38 W.                              | 410               | I           | ○            | m.                                  | —         | Mrs. Dymond.  |  |  |  |  |  |
|                           | Woburn, Ridgmont ...  | 52 1    | 0 36 W.                              | 291               | II          | —            | M.                                  | 08        | H. M. Freear, F.C.S., for the Royal Agricultural Society. |  |  |  |  |  |
| Cambridge :—              | Cambridge Bot. Garden | 52 12   | 0 8 E.                               | 41                | II          | ○            | W.M.S.R.                            | 07        | R. Irwin Lynch, M.A.                                      |  |  |  |  |  |
|                           | " The Observatory     | 52 13   | 0 6 E.                               | 83                | —           | B            | —                                   | 05        | A. R. Hinks, M.A., for Sir Robert Ball, F.R.S.            |  |  |  |  |  |
|                           | " Newnham Coll.       | 52 13   | 0 5 E.                               | —                 | III         | H            | —                                   | 09        | Miss Stephen.   |  |  |  |  |  |
| Essex :—                  | Clacton-on-Sea ...    | 51 47   | 1 9 E.                               | 54                | T, II,      | ○ B          | D.W.M.R.                            | 08        | A. W. Shadick, for Urban District Council.                |  |  |  |  |  |
|                           | Shoebury Ness ...     | 51 32   | 0 47 E.                              | 13*               | III         | —            | W.m.                                | 09        | The Superintendent of Experiments.                        |  |  |  |  |  |
|                           | Southend-on-Sea ...   | 51 32   | 0 43 E.                              | 90                | III         | ○            | w.m.                                | —         | E. J. Elford, for the Corporation.                        |  |  |  |  |  |
| Hertford :—               | " Waterworks          | 51 32   | 0 43 E.                              | 110               | ● (S)       | —            | —                                   | 06        |   |  |  |  |  |  |
|                           | Bennington ...        | 51 54   | 0 5 W.                               | 406               | II          | —            | M.R.                                | 09        | Rev. J. Dunne Parker, LL.D.                               |  |  |  |  |  |
|                           | Berkhamsted ...       | 51 46   | 0 34 W.                              | 400               | II          | ○ (I)        | M.R.                                | 09        | E. Mawley.  |  |  |  |  |  |
|                           | Offley Vicarage ...   | 51 56   | 0 21 W.                              | 523               | ●           | —            | —                                   | —         | Rev. E. P. Gatty.   |  |  |  |  |  |

|                             |                        |     |     |       |         |       |        |        |          |    |  |
|-----------------------------|------------------------|-----|-----|-------|---------|-------|--------|--------|----------|----|--|
|                             | Rothamsted             | ... | ... | 51 48 | 0 22 W. | 424   | III    | ○      | W.m.     | 09 | A. D. Hall, M.A., for the Lawes Agricultural Trust.                        |
| Huntingdon :—               | No station.            |     |     |       |         |       |        |        |          |    |  |
| Middlesex :—                | Harefield              | ... | ... | 51 36 | 0 29 W. | 337   | ●      | —      | —        | —  | G. Eland.  |
| Suffolk :—                  | Brandon                | ... | ... | 52 27 | 0 37 E. | 48†   | ●      | —      | —        | —  | Lt.-Col. B. Spragge, D.S.O.  |
|                             | Felixstowe             | ... | ... | 51 58 | 1 22 E. | 10    | III    | ○      | d.W.m.   | 07 | F. B. Jennings, for the District Council.                                  |
|                             | Lowestoft              | ... | ... | 52 29 | 1 45 E. | 83    | II     | ○      | w.d.M.   | 08 | C. W. Edwards, for the Corporation.  |
| <b>4. MIDLAND COUNTIES.</b> |                        |     |     |       |         |       |        |        |          |    |  |
| (a) <i>Eastern Part.</i>    |                        |     |     |       |         |       |        |        |          |    |  |
| Buckingham :—               | Beaconsfield           | ... | ... | 51 56 | 0 38 W. | 360   | ●      | —      | —        | —  | C. T. Marcon, M.A.   |
|                             | Winslow                | ... | ... | 51 57 | 0 53 W. | 379   | III    | —      | m.       | 06 | R. A. Easton.  |
| Derby :—                    | Belper                 | ... | ... | 53 1  | 1 29 W. | 222   | III    | —      | m.       | —  | W. W. Tunnicliffe, B.Sc., F.C.S.   |
|                             | M. Buxton              | ... | ... | 53 17 | 1 55 W. | 987   | II,    | ○(B)   | d.W.M.R. | 08 | W. Pilkington, and F. T. Kieldsen.   |
|                             | Chatsworth             | ... | ... | 53 14 | 1 37 W. | —     | III    | B 0    | —        | 02 | The Duke of Devonshire, K.G.   |
|                             | Howard Estate, Glossop | ... | ... | 53 27 | 1 57 W. | 1,100 | K      | —      | w.       | —  | Prof. J. E. Petavel, F.R.S., for the University of Manchester.             |
| Leicester :—                | Belvoir Castle         | ... | ... | 52 54 | 0 47 W. | 259   | II     | ○      | R.M.     | 09 | W. H. Divers, for the Duke of Rutland, K.G.                                |
| Northampton :—              | Syston                 | ... | ... | 52 43 | 1 5 W.  | 178   | ●      | —      | —        | 96 | S. K. Daniels.   |
|                             | Chipping Warden        | ... | ... | 52 9  | 1 16 W. | —     | ●      | —      | —        | —  | Rev. S. F. Cartwright.   |
|                             | Great Billing          | ... | ... | 52 16 | 0 50 W. | 273   | ●      | —      | —        | —  | Rev. G. H. Mullins, M.A.   |
|                             | Oundle (The School)    | ... | ... | 52 29 | 0 28 W. | 144   | III    | ○      | —        | 04 | F. H. E. Martin, for F. W. Sanderson, M.A., Headmaster.                    |
|                             | "                      | ... | ... | 52 29 | 0 28 W. | 146   | ●      | —      | —        | 04 | N. E. Dixon, C.E.  |
| Nottingham :—               | Raunds                 | ... | ... | 52 22 | 0 33 W. | 205   | III    | —      | W.m.     | 08 | Leon G. H. Lee.  |
|                             | Bawtry, Hesley Hall    | ... | ... | 53 27 | 1 4 W.  | 65    | III    | —      | W.m.     | 09 | B. I. Whitaker, J.P.   |
|                             | Kingston-on-Soar       | ... | ... | 52 51 | 1 14 W. | 125   | III    | —      | m.       | 08 | Fred Wakerly.  |
|                             | Nottingham             | ... | ... | 52 56 | 1 9 W.  | 82    | T, II, | ○(B 0) | D.W.M.R. | 09 | Arthur Brown, M.Inst.C.E., and Philip Boobbyer, M.D., for the Corporation. |
|                             | Worksop (Hodsock)      | ... | ... | 53 22 | 1 5 W.  | 56    | III    | ○(B 0) | w.m.     | 08 | Col. H. Mellish, J.P.  |

The names of Stations added to the list since April, 1909, are printed in clarendon type. The positions of the Stations can be identified on the map, Plate VIII., p. 64, from the figures which give their heights above Mean Sea Level.

\* Head of Anemometer 103 ft. above M.S.L.

† Head of Anemometer 52 ft. above M.S.L.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station               | Lat.                     | Long.       | Height<br>in feet<br>above<br>M.S.L. | Order of Station |                 | Publication | Year<br>of last<br>Inspection | Observer |  |  |  |  |  |  |
|----------------------------------|--------------------------|-------------|--------------------------------------|------------------|-----------------|-------------|-------------------------------|----------|--|--|--|--|--|--|
|                                  |                          |             |                                      | Eye Obs.         | Autographic.    |             |                               |          |  |  |  |  |  |  |
| <b>4. MIDLAND COUNTIES—cont.</b> |                          |             |                                      |                  |                 |             |                               |          |  |  |  |  |  |  |
| (a) <i>Eastern Part</i> —cont.   |                          |             |                                      |                  |                 |             |                               |          |  |  |  |  |  |  |
| Oxford :—                        | Oxford ...               | ... 51° 46' | 1° 16' W.                            | 208              | [I] T           | ⊙ [I]       | D.W.M.R.                      | 09       | Dr. A. A. Rambaut, M.A., F.R.S.;<br>W. Wickham, for M.O. |  |  |  |  |  |
| Rutland :—                       | Pyrton Hill ...          | ... 51° 38' | 1° 1 W.                              | 500              | —               | K B         | w.                            | —        | W. H. Dines, F.R.S., for M.O.                            |  |  |  |  |  |
|                                  | Ridlington ...           | ... 52° 37' | 0° 45 W.                             | 522              | ●               | —           | —                             | —        | N. W. Wortley.   |  |  |  |  |  |
|                                  | Uppingham ...            | ... 52° 38' | 0° 43 W.                             | 469              | III             | —           | —                             | —        | E. Hunter.   |  |  |  |  |  |
| Warwick :—                       | Coventry ...             | ... 52° 25' | 1° 30 W.                             | 270              | III             | ○           | R.m.                          | 07       | E. Hugh Snell, M.D., for the<br>Corporation.             |  |  |  |  |  |
|                                  | Rugby School ...         | ... 52° 22' | 1° 15 W.                             | 379              | III             | (B)         | m.                            | 08       | Rev. D. E. Shorto, M.A.                                  |  |  |  |  |  |
|                                  | Birmingham, Edgbaston    | 52° 28'     | 1° 56 W.                             | 535              | II              | ○           | d.W.M.R.r.                    | 07       | Alfred Cresswell, for the Midland<br>Institute.          |  |  |  |  |  |
| Yorkshire,<br>W. Riding :—       | Ackworth ...             | ... 53° 39' | 1° 20 W.                             | 131              | III             | —           | —                             | 06       | W. H. Waite.   |  |  |  |  |  |
|                                  | Bradford ...             | ... 53° 49' | 1° 46 W.                             | 439              | III             | ○           | m.r.                          | 09       | H. Lander for the Corporation.                           |  |  |  |  |  |
|                                  | Garforth ...             | ... 53° 48' | 1° 22 W.                             | 195              | II              | ○           | M.                            | 09       | Prof. Seton, B.Sc., for the Uni-<br>versity of Leeds.    |  |  |  |  |  |
|                                  | Giggleswick ...          | ... 54° 4'  | 2° 17 W.                             | 500?             | III             | (B) ○       | —                             | 05       | C. F. Mott, M.A.   |  |  |  |  |  |
|                                  | M. Harrogate ...         | ... 54° 0'  | 1° 33 W.                             | 476              | III             | ○           | d.W.m.                        | 08       | C. E. Rivers, for the Corporation.                       |  |  |  |  |  |
|                                  | Huddersfield ...         | ... 53° 39' | 1° 47 W.                             | 409              | II <sub>s</sub> | ○ (●)       | M.R.r.                        | 09       | J. Firth, Registrar, for the Cor-<br>poration.           |  |  |  |  |  |
|                                  | Leeds ...                | ... 53° 48' | 1° 33 W.                             | 132              | III             | (B)         | —                             | 08       | H. Crowther, for the Leeds Philo-<br>sophical Society.   |  |  |  |  |  |
|                                  | Sheffield ...            | ... 53° 23' | 1° 29 W.                             | 429              | II              | ○           | w.M.R.                        | 08       | E. Howarth, F.R.A.S.                                     |  |  |  |  |  |
|                                  | Wakefield ...            | ... 53° 41' | 1° 30 W.                             | 96               | II              | —           | M.R.                          | 08       | Alex. French, M.R.C.S., L.R.C.P.                         |  |  |  |  |  |
| (b) <i>Western Part</i> .        |                          |             |                                      |                  |                 |             |                               |          |  |  |  |  |  |  |
| Gloucester :—                    | Bristol, Over Court Park | 51° 32'     | 2° 35 W.                             | 147              | III             | —           | r.                            | 07       | R. C. Cann Lippincott.                                   |  |  |  |  |  |
|                                  | Clifton, Bristol         | 51° 27'     | 2° 37 W.                             | 229              | III             | —           | W.R.m.                        | 09       | D. Rintoul, M.A.   |  |  |  |  |  |
|                                  | Cheltenham ...           | 51° 54'     | 2° 3 W.                              | 214              | II              | ○ ○         | S.M.R.                        | 09       | A. C. Saxby, for the Corporation.                        |  |  |  |  |  |

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

|                                |                                 |         |         |     |     |          |          |   |
|--------------------------------|---------------------------------|---------|---------|-----|-----|----------|----------|---|
| Cirencester ... ...            | 51 43                           | 1 57 W. | 446     | III | ○   | W.m.     | 08       | Prof. M. Kershaw, B.A., for the Royal Agricultural College. |
| Dursley ... ...                | 51 41                           | 2 21 W. | 256     | ●   | —   | —        | 96       | E. Fryer Smith.   |
| Forest of Dean :—              |                                 |         |         |     |     |          |          |   |
| Blakeney Hill ...              | 51 46                           | 2 30 W. | 500?    | ●   | —   | —        | —        | John Tyler  |
| Braceland ...                  | 51 49                           | 2 38 W. | 500     | ●   | —   | —        | —        | E. P. Popert  |
| Edgehills Lodge ...            | 51 51                           | 2 29 W. | 700     | ●   | —   | —        | —        | Campbell Anderson } for V. F.                               |
| Ruardean Hill ...              | 51 50                           | 2 32 W. | 900     | ●   | —   | m.       | 05       | John Morris Leese.  |
| Whitemead Park ...             | 51 46                           | 2 34 W. | 200     | ●   | —   | m.       | 05       | William Morris  |
| Worcester Lodge ...            | 51 48                           | 2 35 W. | 550     | ●   | —   | —        | —        | William Morris  |
| Hidcote ... ...                | 52 5                            | 1 46 W. | 524     | ●   | —   | —        | 97       | Major W. Wright, R.A.                                       |
| Hereford :—                    | Hereford (Belmont) ...          | 52 5    | 2 45 W. | 291 | III | W.m.     | 07       | Canon T. B. Harrington, O.S.B.                              |
| Shropshire :—                  | Shrewsbury ...                  | 52 43   | 2 45 W. | 191 | II  | W.M.R.S. | 09       | Capt. C. S. Reid, R.E.                                      |
|                                | Stokesay ...                    | 52 26   | 2 52 W. | 370 | II  | M.R.     | 09       | Rev. W. M. D. La Touche, B.A.                               |
| Stafford :—                    | McCheadle (Tean) ...            | 52 58   | 1 57 W. | 646 | III | W.m.     | 08       | Col. B. H. Philips.   |
|                                | Mayfield ...                    | 53 0    | 1 46 W. | 374 | III | m.       | 09       | G. C. Lawson.   |
| Worcester :—                   | Birmingham, Sparkhill           | 52 27   | 1 52 W. | 424 | III | —        | —        | D. H. Owen.   |
|                                | Rochford ...                    | 52 18   | 2 36 W. | 315 | ●   | B        | 01       | Rev. John Tomson.   |
| <b>5. ENGLAND, SOUTH-EAST.</b> |                                 |         |         |     |     |          |          |   |
| Berkshire :—                   | Bucklebury Place ..             | 51 26   | 1 24 W. | 409 | III | —        | m.       | 08 J. W. Harris, for A. W. Sutton.                          |
|                                | Maidenhead ...                  | 51 30   | 0 43 W. | 101 | III | —        | m.       | 06 G. H. Palmer.  |
|                                | Reading (Leighton Park School). | 51 26   | 0 57 W. | 264 | II  | B ○      | M.       | 07 J. Ridges, M.A., Headmaster.                             |
|                                | Wokingham ...                   | 51 23   | 0 48 W. | 216 | III | B        | m.       | 06 Medical Superintendent of Sanatorium.                    |
| Hampshire :—                   | Basingstoke ...                 | 51 16   | 1 6 W.  | 289 | III | —        | m.       | — A. M. Pitkin, F.R.G.S.                                    |
|                                | Bournemouth ...                 | 50 43   | 1 53 W. | 145 | III | ○        | d.w.m.   | 08 C. Dales, for Town Council.                              |
|                                | Petersfield (Ditcham Park.)     | 51 0    | 0 57 W. | 550 | —   | K        | w.       | — C. J. P. Cave, M.A.                                       |
|                                | M. Portsmouth ...               | 50 48   | 1 6 W.  | 11  | III | —        | R.r.w.m. | 07 A. Mearns Fraser, M.D., for the Corporation.             |
|                                | M. Sandown ...                  | 50 48   | 1 8 W.  | 20  | III | ○ (B)    | m.       | — G. E. Gilchrist, for the Sandown Advancement Board.       |
|                                | Southampton ...                 | 50 55   | 1 24 W. | 65  | II  | ○        | W.M.S.R. | 09 A. Vaughan, for Director-General of Ordnance Survey.     |

The names of Stations added to the list since April, 1909, are printed in clarendon type. The positions of the Stations can be identified on the map, Plate VIII., p. 64, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                        | Lat.            | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspection | Observer.   |
|--|-----------------|---------|--------------------------------------|-------------------|--------------|--------------|-------------------------------|---|
|  |                 |         |                                      | Eye Obs.          | Autographic. |              |                               |   |
| <b>5. ENGLAND, SOUTH-EAST—<i>cont.</i></b> |                 |         |                                      |                   |              |              |                               |   |
| Hampshire— <i>cont.</i>                    | 50° 47'         | 1° 6 W. | —                                    | —                 | ○            | d.           | 09                            | A. Mearns Fraser, M.D., for the Corporation of Portsmouth.          |
| Southsea ...                               | 50 47           | 1 6 W.  | —                                    | —                 | ○            | —            | —                             | Legh S. Powell.   |
| Stockbridge(Ashley)                        | 51 5            | 1 27 W. | 235                                  | ●                 | B            | W.m.         | 09                            | Rev. W. L. W. Eyre, M.A.  |
| Swarraton ...                              | 51 8            | 1 11 W. | 310                                  | III               | —            | m.           | 04                            | J. Dover, M.A.  |
| Totland Bay ...                            | 50 41           | 1 33 W. | 140                                  | III               | ○            | W.m.R.       | 06                            | Miss M. Gibson, for Royal National Hospital for Consumption.        |
| M. Ventnor ...                             | 50 36           | 1 13 W. | 80                                   | III               | ○            | (m.)         | —                             | Howard Hurd, C.E., and Rev. H. C. V. Snowden, for District Council. |
| Kent:—                                     | Broadstairs ... | 51 21   | 1 26 E.                              | 140               | ●            | ○            | —                             | A. Lander.<br>S. Miller.  |
| Canterbury ...                             | 51 17           | 1 5 E.  | 39                                   | III               | —            | w.           | 05                            | W. C. Hawke, C.E., for the Corporation of Dover.                    |
| Deal ...                                   | 51 13           | 1 24 E. | 23                                   | III               | ○            | d.           | —                             | —   |
| Dover ...                                  | 51 7            | 1 18 E. | 198                                  | ●                 | —            | —            | 96                            | —   |
| Dover ...                                  | 51 7            | 1 19 E. | 231                                  | T                 | ○            | D.M.         | 09                            | W. S. Wilder, Lightkeeper, for M.O.                                 |
| Kearsuey, Chilton Farm.                    | 51 8            | 1 17 E. | 125                                  | ●                 | —            | —            | —                             | J. W. Stainer, for the Corporation.                                 |
| Dungeness ...                              | 50 55           | 0 58 E. | 21                                   | T                 | B            | D.W.M.       | 09                            | Charles H. Scott.   |
| Folkestone ...                             | 51 5            | 1 11 E. | 121                                  | III               | ○(●)         | d.m.         | 08                            | H. T. Tubbs.  |
| Hildenborough ...                          | 51 13           | 0 15 E. | 160                                  | ●                 | —            | d.w.(m.)     | 05                            | J. Stokes, J.P., for the Corporation.                               |
| Littlestone-on-Sea                         | 50 59           | 0 59 E. | —                                    | —                 | ○            | d.w.m.       | 08                            | D'Arcy Reeve.   |
| M. Margate ...                             | 51 24           | 1 24 E. | 35                                   | III               | ○            | m.           | —                             | T. G. Taylor, C.E., for the Corporation.                            |
| Matfield ...                               | 51 9            | 0 22 E. | 319                                  | III               | —            | d.w.(m.)     | 08                            | R. A. Skelton and Chas. J. Conquest.                                |
| Ramsgate ...                               | 51 20           | 1 25 E. | —                                    | —                 | ○            | —            | —                             | Royal St. George's Golf Club.                                       |
| Sandgate ...                               | 51 4            | 1 9 E.  | 50                                   | ●                 | —            | —            | 99                            | F. Gaster.  |
| Sandwich ...                               | 51 17           | 1 20 E. | 6                                    | ●                 | —            | —            | 03                            | J. Waley Cohen.   |
| Tankerton ...                              | 51 22           | 1 2 E.  | 72                                   | ●                 | —            | —            | —                             | F. G. Smart, M.B.   |
| Tonbridge ...                              | 51 12           | 0 17 E. | 319                                  | ●                 | —            | —            | —                             | —   |
| Tunbridge Wells ...                        | 51 8            | 0 16 E. | 421                                  | III               | ○            | W.m.         | 09                            | —   |

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

|                  |                        |           |         |     |     |     |            |    |  |
|------------------|------------------------|-----------|---------|-----|-----|-----|------------|----|--|
| <b>Surrey :—</b> | Byfleet ...            | ... 51 20 | 0 29 W. | 65  | ●   | —   |            | —  | R. W. Pretor-Pinney.                                     |
|                  | Epsom ...              | ... 51 20 | 0 17 W. | 160 | III |     | m.         |    | S. C. Russell.   |
|                  | Newdigate ...          | ... 51 0  | 0 17 W. | 259 | ●   | (B) |            |    | R. J. Wallace.   |
|                  | Send ...               | ... 51 15 | 0 32 W. | 99  | ●   | (B) |            |    | J. W. G. Bond.   |
|                  | Warlingham ...         | ... 51 18 | 0 3 W.  | 609 | ●   | θ   |            |    | R. H. Curtis.  |
|                  | Wisley ...             | ... 51 17 | 0 26 W. | 150 | III | ○   | W.m.       | 09 | The Superintendent, for the Royal Horticultural Society. |
| <b>Sussex :—</b> | Bexhill-on-Sea ...     | 50 50     | 0 33 E. | 27  | II  | ○   | d.m.       | 08 | G. Brisley, M.P.S., for the Corporation.                 |
|                  | M. Bognor ...          | ... 50 47 | 0 40 W. | 20  | III | ○   | d.w.m.     | 06 | H. Gardner, for the Bognor Climatological Society.       |
|                  | M. Brighton ...        | ... 50 49 | 0 8 W.  | 31  | III | θ ○ | d.w.m.R.r. | 09 | H. Heasman, for the Medical Officer of Health.           |
|                  | Brighton ...           | ... 50 49 | 0 8 W.  | 380 | —   | K   | w.         |    | S. H. R. Salmon.   |
|                  | Cuckfield ...          | ... 51 1  | 0 9 W.  | 389 | ●   |     | —          | 97 | E. Gosden.   |
|                  | Eastbourne ...         | ... 50 46 | 0 17 E. | 39  | II  | ○   | d.w.M.R.   | 08 | S. R. Henderson, for the Medical Officer of Health.      |
|                  | Hastings Cemetery      | 50 52     | 0 34 E. | 499 | ●   |     | —          |    | Walter Field.  |
|                  | " Waterworks           | 50 51     | 0 34 E. | 270 | —   | ○   | d.w.(m.)   | 06 | J. Farnham, for the Corporation.                         |
|                  | Heathfield ...         | ... 50 58 | 0 16 E. | 499 | ●   |     | —          |    | J. F. Leigh Clare.                                       |
|                  | Hove ...               | ... 50 47 | 0 10 W. | —   | —   | ○   | m.         |    | A. Griffith, M.O.H., for the Corporation.                |
|                  | Levées ...             | ... 50 52 | 0 1 E.  | 57  | III |     | m.         | 08 | Hon. C. Brand.   |
|                  | St. Leonards ...       | ... 50 51 | 0 33 E. | 178 | II  |     | W.M.       | 08 | H. Colborne, M.R.C.S., for the Corporation.              |
|                  | " West Marina          | 50 51     | 0 32 E. | 20? | III |     | —          | 06 | T. Eldridge, for the Corporation.                        |
|                  | Seaford ...            | ... 50 46 | 0 6 E.  | 30  | III | ○   | d.         |    | Col. F. W. Savage.                                       |
|                  | Watergate Park ...     | 50 56     | 0 55 W. | 239 | ●   |     | —          | 99 | W. M. Christy.   |
|                  | Westbourne ...         | 50 52     | 0 55 W. | 30  | —   | ○   | (m.)       | 07 | Rev. L. B. Birkett.                                      |
|                  | M. Worthing ...        | 50 49     | 0 22 W. | 36  | III | ○   | d.w.m.     | 08 | R. H. W. Wilshaw, M.B., D.P.H., for the Corporation.     |
| <b>Wilts :—</b>  | M. Marlborough ...     | 51 25     | 1 44 W. | 424 | III | ○   | W.m.       | 08 | G. G. Becker, M.A., and Meddows Taylor.                  |
|                  | Salisbury (Wilton) ... | 51 4      | 1 51 W. | 180 | II  | —   | M. R.      | 07 | Thos. Challis, for the Earl of Pembroke, G.C.V.O.        |
|                  | Salisbury ...          | 51 5      | 1 50 W. | 165 | II  | —   | —          | —  | Capt. H. Tudor Williams.                                 |

The names of Stations added to the list since April, 1909, are printed in clarendon type. The positions of the Stations can be identified on the map, Plate VIII., p. 64, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.     | Lat.  | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer.  |
|-------------------------|-------|---------|--------------------------------------|-------------------|--------------|--------------|-------------------------------------|--|
|                         |       |         |                                      | Eye Obs.          | Autographic. |              |                                     |  |
| <b>LONDON DISTRICT.</b> |       |         |                                      |                   |              |              |                                     |  |
| Barnet ... ...          | 51 39 | 0 10 W. | 211                                  | III               | —            | —            | 06                                  | F. J. Bancroft, B.Sc., M.I.A.C.E., M.I.M.E.  |
| Camberwell—             |       |         |                                      |                   |              |              |                                     |  |
| The Green ...           | 51 28 | 0 5 W.  | 17                                   | —                 | ●            |              | 03                                  |  |
| Forest Hill ...         | 51 26 | 0 4 W.  | 160                                  | —                 | ●            |              | 03                                  | W. Oxtoby, M.I.C.E., for the Camberwell Borough Council.                                   |
| Leyton Square ...       | 51 29 | 0 4 W.  | 14                                   | —                 | ●            |              | 03                                  |  |
| Peckham Rd. ...         | 51 28 | 0 5 W.  | 21                                   | —                 | ●            |              | 03                                  |  |
| Camden Square ...       | 51 33 | 0 8 W.  | 110                                  | II                | ○(B ●)       | M.R.         | —                                   | H. Robert Mill, D.Sc., LL.D.   |
| Chelsea ... ...         | 51 29 | 0 10 W. | 24                                   | ●                 | —            | —            | —                                   | T. W. E. Higgens, C.E., for the Chelsea Borough Council.                                   |
| City (Bunhill Row) ...  | 51 31 | 0 5 W.  | 80                                   | —                 | ○            | w.(m.)       | —                                   | Messrs. De la Rue.   |
| East Ham ... ...        | 51 32 | 0 3 E.  | 12                                   | III               | —            | —            | —                                   | J. Banks, for the Corporation.   |
| Greenwich ... ...       | 51 28 | 0 0     | 155                                  | I                 | (I)          | W.M.R.r.     | —                                   | The Astronomer Royal.  |
| Hampstead ... ...       | 51 33 | 0 11 W. | 450                                  | II                | ○            | M.           | 09                                  | E. L. Hawke, for the Hampstead Scientific Society.   |
| Isleworth ... ...       | 51 29 | 0 20 W. | 24                                   | III               | —            | —            | —                                   | A. Worsley.  |
| Kensal Green ... ...    | 51 32 | 0 13 W. | 100                                  | ●                 | —            | —            | —                                   | C. W. Heinemann.   |
| Kew ... ...             | 51 28 | 0 19 W. | 18                                   | I                 | I            | W.M.R.       | 08                                  | C. Chree, Sc.D., F.R.S., Superintendent of the Observatory, for the Meteorological Office. |
| Pall Mall ... ...       | 51 30 | 0 7 W.  | —                                    | —                 | B            | —            | —                                   | Athenaeum Club.  |
| Norwood ... ...         | 51 26 | 0 6 W.  | 220                                  | II                | —            | M.R.         | 09                                  | W. Marriott.   |
| Plumstead ... ...       | 51 29 | 0 6 E.  | 300                                  | —                 | ○            | m.           | 01                                  | J. G. Waller.  |
| Tottenham ... ...       | 51 36 | 0 5 W.  | 51                                   | II                | ○            | W.M.R.       | 06                                  | J. F. Butler-Hogan, M.D., LL.D., for Urban District Council.                               |
| Westminster ... ...     | 51 30 | 0 8 W.  | 27                                   | T                 | ● B Θ        | D.W.M.R.     | —                                   | The Staff of the Meteorological Office.  |
| " Training Coll. ...    | 51 30 | 0 8 W.  | 107                                  | —                 | ○            |              |                                     | J. H. Cowham and Rev. H. B. Workman, D.Lit.  |

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

| 6. (a) SCOTLAND, WEST. |  |   |  |                               |                                  |                                 |                               |                              |   |  |  |
|------------------------|--|---|--|-------------------------------|----------------------------------|---------------------------------|-------------------------------|------------------------------|---|--|--|
| Argyleshire :—         | Ardnadam<br>Grutine, Isle of<br>Mull.<br><i>Laudale</i> ...<br>Loch Awe :—<br>Cruachan Bothy<br>Ford ...<br>Oban ... | ...<br>55 59<br>56 30<br>56 41<br>56 14<br>56 10<br>56 25 | 4 56 W.<br>6 0 W.<br>14<br>5 28 W.<br>5 26 W.<br>5 30 W. | 64<br>100<br>283<br>148<br>20 | III<br>●<br>III.<br>●<br>II<br>○ | (B)<br>—<br>—<br>—<br>—<br>d.m. | —<br>—<br>W.m.<br>—<br>—<br>— | —<br>—<br>07<br>—<br>—<br>09 | Rev. J. Cairns Mitchell, B.D.<br>J. W. Melles,<br>J. A. Fletcher.   |  |  |
| Ayr :—                 | §Poltalloch ...<br>§Culmonell ...<br>Kilmarnock ...  | ...<br>56 8<br>55 8<br>55 37                              | 5 30 W.<br>4 53 W.<br>4 36 W.                            | 132<br>150<br>90              | II<br>III<br>III                 | —<br>(B)<br>○                   | W.M.<br>W.<br>W.m.            | 07<br>09<br>08               | John Boyd, Crown Forester.<br>Edwin Baily, M.D., for District<br>Council.<br>D. S. Melville, for Col. Malcolm.<br>A. Ogg, for J. W. McConnel.<br>George Stewart, for the West of<br>Scotland Agric. Coll. |  |  |
| Bute :—                | §Rothesay ...  | ...<br>55 50  | 5 4 W.   | 115                           | II                               | —                               | W.M.                          | 07                           | D. Penney.  |  |  |
| Dumbarton :—           | No station.  |   |  |                               |                                  |                                 |                               |                              |   |  |  |
| Dumfries :—            | §Dumfries ...<br>Eskdalemuir ...<br>S. Ruthwell ...  | ...<br>55 4<br>55 19<br>55 0                              | 3 36 W.<br>3 12 W.<br>3 26 W.                            | 160<br>799<br>67              | II<br>I<br>II                    | ○<br>I<br>○                     | W.M.<br>M.S.<br>m.            | 09<br>—<br>—                 | C. C. Easterbrook, M.D., for<br>the Crichton R. Institution.<br>G. W. Walker, M.A., Superinten-<br>dent of the Observatory.<br>W. H. Whellens, for A. Johnstone<br>Douglas.                               |  |  |
| Kirkcudbright :—       | §Cally (Gatehouse)   | 54 52   | 4 12 W.  | 120                           | II                               | —                               | W.M.                          | 07                           | W. Thomson, for Col. F. Murray<br>Baillie.  |  |  |
| Lanark :—              | Glasgow ...<br>Thorntonhall ...  | ...<br>55 53<br>55 46                                     | 4 18 W.<br>4 15 W.                                       | 180<br>440                    | I<br>III                         | I<br>○ B                        | W.M.S.<br>m.                  | 09<br>08                     | Prof. L. Becker, Ph.D., for M.O.<br>John Wilson, for A. Henderson<br>Bishop.  |  |  |
| Renfrew :—             | No station.  |   |  |                               |                                  |                                 |                               |                              |   |  |  |
| Stirling :—            | No station.  |   |  |                               |                                  |                                 |                               |                              |   |  |  |
| Wigtown :—             | No station.  |   |  |                               |                                  |                                 |                               |                              |   |  |  |
| 6. (b) ISLE OF MAN.    |  |   |  |                               |                                  |                                 |                               |                              |   |  |  |
|                        | Douglas ...<br>" ...   | ...<br>54 10<br>54 10                                     | 4 28 W.<br>4 29 W.                                       | 277<br>137                    | II<br>—                          | ○<br>B                          | W.M.S.<br>—                   | 08<br>—                      | Frank Cottle, for the Corporation.<br>Mrs. A. W. Moore.   |  |  |

The names of Stations added to the list since April, 1909, are printed in clarendon type. The positions of the Stations can be identified on the map, Plate VIII, p. 64, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                | Lat.                             | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspection. | Observer. |  |
|------------------------------------|----------------------------------|---------|--------------------------------------|-------------------|--------------|--------------|--------------------------------|-----------|--|
|                                    |                                  |         |                                      | Eye Obs.          | Autographic. |              |                                |           |  |
| <b>7. (a) ENGLAND, NORTH WEST.</b> |                                  |         |                                      |                   |              |              |                                |           |  |
| Cheshire:—                         | Bidston ...                      | 53° 24' | 3° 4' W.                             | 188               | (I) T        | (I) ⊙        | D.W.M.R.r.                     | 04        | W. E. Plummer, M.A., F.R.A.S., for the Mersey Docks and Harbour Board. |
|                                    | Hawarden Bridge ...              | 53° 12' | 3° 1' W.                             | 22                | III          | —            | W.m.                           | 08        | F. B. Summers.   |
|                                    | M. Hoylake ...                   | 53° 23' | 3° 12' W.                            | 307               | III          | ⊙            | w.m.                           | 02        | Tom Robinson, for Urban District Council.                              |
| Cumberland:—                       | Liscard ...                      | 53° 25' | 3° 5' W.                             | 84                | ●            | B            | —                              | —         | H. Norman Edge.  |
|                                    | Aspatria ...                     | 54° 46' | 3° 21' W.                            | 250               | II           | ⊙ (↙)        | W.M.R.                         | 09        | J. Smith Hill, B.A., B.Sc., Agricultural College.                      |
|                                    | <i>Carlisle</i> ...              | 54° 53' | 2° 57' W.                            | 111               | II           | —            | —                              | 04        | H. S. Cartmell, for the Corporation.                                   |
|                                    | Newton Rigg ...                  | 54° 40' | 2° 19' W.                            | 559               | II           | ⊙            | W.M.                           | 08        | W. T. Lawrence, for the Cumberland County Council.                     |
|                                    | Uldale (Chapel House Reservoir). | 54° 43' | 3° 9' W.                             | 599               | ●            | —            | —                              | —         | T. Strong, for Aspatria and Silloth Water Board.                       |
| Lancashire:—                       | M. Blackpool ...                 | 53° 49' | 3° 3' W.                             | 66                | II           | ⊙ (B ↘ ●)    | d.W.M.                         | 08        | E. W. Rees Jones, M.D., D.P.H., for the Corporation.                   |
|                                    | Burnley ...                      | 53° 48' | 2° 15' W.                            | 459               | III          | ⊙ (B)        | m.r.                           | 08        | Thos. Holt, M.D., for the Corporation.                                 |
|                                    | Carnforth (Over Kellet),         | 54° 8'  | 2° 44' W.                            | 174               | III          | ⊙            | m.                             | 08        | W. Farrer.   |
|                                    | Darwen ...                       | 53° 41' | 2° 28' W.                            | 722               | III          | ⊙            | d.M.                           | 08        | F. G. Haworth, M.B., for the Corporation.                              |
|                                    | Fleetwood ...                    | 53° 56' | 3° 1' W.                             | —                 | —            | ↙            | —                              | 09        | The Urban District Council, for the Meteorological Office.             |
|                                    | Graythwaite ...                  | 54° 19' | 3° 0' W.                             | 180               | ●            | —            | —                              | —         | H. I. Grosspelius.   |
|                                    | Lancaster ...                    | 54° 3'  | 2° 47' W.                            | 311               | III          | ⊙ (↙) ●      | m.                             | 09        | Neville Holden, F.R.A.S., for the Storey Institute                     |
|                                    | Rossall Beach ...                | 53° 55' | 3° 2' W.                             | 0                 | III          | B            | d.                             | —         | T. G. Benn.  |

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                | Lat.                             | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspection. | Observer. |  |
|------------------------------------|----------------------------------|---------|--------------------------------------|-------------------|--------------|--------------|--------------------------------|-----------|--|
|                                    |                                  |         |                                      | Eye Obs.          | Autographic. |              |                                |           |  |
| <b>7. (a) ENGLAND, NORTH WEST.</b> |                                  |         |                                      |                   |              |              |                                |           |  |
| Cheshire:—                         | Bidston ...                      | 53° 24' | 3° 4 W.                              | 188               | (I) T        | (I) ⊙        | D.W.M.R.r.                     | 04        | W. E. Plummer, M.A., F.R.A.S., for the Mersey Docks and Harbour Board. |
|                                    | Hawarden Bridge ...              | 53° 12' | 3° 1 W.                              | 22                | III          | —            | W.m.                           | 08        | F. B. Summers.   |
|                                    | M. Hoyleake ...                  | 53° 23' | 3° 12 W.                             | 307               | III          | ○            | w.m.                           | 02        | Tom Robinson, for Urban District Council.                              |
| Cumberland:—                       | Liscard ...                      | 53° 25' | 3° 5 W.                              | 84                | ●            | B            | —                              | —         | H. Norman Edge.  |
|                                    | Aspatria ...                     | 54° 46' | 3° 21 W.                             | 250               | II           | ○ (↙)        | W.M.R.                         | 09        | J. Smith Hill, B.A., B.Sc., Agricultural College.                      |
|                                    | Carlisle ...                     | 54° 53' | 2° 57 W.                             | 111               | II           | —            | —                              | 04        | H. S. Cartmell, for the Corporation.                                   |
| Lancashire:—                       | Newton Rigg ...                  | 54° 40' | 2° 49 W.                             | 559               | II           | ○            | W.M.                           | 08        | W. T. Lawrence, for the Cumberland County Council.                     |
|                                    | Uldale (Chapel House Reservoir). | 54° 43' | 3° 9 W.                              | 599               | ●            | —            | —                              | —         | T. Strong, for Aspatria and Silloth Water Board.                       |
|                                    | M. Blackpool ...                 | 53° 49' | 3° 3 W.                              | 66                | II           | ○ (B ↘ ●)    | d.W.M.                         | 08        | E. W. Rees Jones, M.D., D.P.H., for the Corporation.                   |
|                                    | Burnley ...                      | 53° 48' | 2° 15 W.                             | 459               | III          | ○ (B)        | m.r.                           | 08        | Thos. Holt, M.D., for the Corporation.                                 |
|                                    | Carnforth (Over Kellest).        | 54° 8'  | 2° 44 W.                             | 174               | III          | ○            | m.                             | 08        | W. Farrer.   |
|                                    | Darwen ...                       | 53° 41' | 2° 28 W.                             | 722               | III          | ○            | d.M.                           | 08        | F. G. Haworth, M.B., for the Corporation.                              |
|                                    | Fleetwood ...                    | 53° 56' | 3° 1 W.                              | —                 | —            | ↙            | —                              | 09        | The Urban District Council, for the Meteorological Office.             |
|                                    | Graythwaite ...                  | 54° 19' | 3° 0 W.                              | 180               | ●            | —            | —                              | —         | H. I. Grosspelius.   |
|                                    | Lancaster ...                    | 54° 3'  | 2° 47 W.                             | 311               | III          | ○ (↙) ●      | m.                             | 09        | Neville Holden, F.R.A.S., for the Storey Institute                     |
| Rossall Beach                      |                                  | 53° 55' | 3° 2 W.                              | 0                 | III          | B            | d.                             | —         | T. G. Benn.  |

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|                            |                                  |       |         |     |                    |         |          |    |   |
|----------------------------|----------------------------------|-------|---------|-----|--------------------|---------|----------|----|---|
|                            | Manchester (Oldham Road).        | 53 29 | 2 13 W. | 190 | II                 | ○       | M.R.w.   | 08 | J. Niven, M.A., M.B., for the Corporation,<br>The University of Manchester. |
|                            | " (Whitworth Park).              | 53 28 | 2 14 W. | 125 | II                 | K ○ (B) | d.M.     | 08 |   |
|                            | " (Prestwich)                    | 53 32 | 2 17 W. | 320 | II                 | ○       | W.M.r.   | 08 | F. Gore, for Medical Superintendent of the Asylum.                          |
|                            | M. Southport ...                 | 53 39 | 2 59 W. | 37  | II <sub>3</sub>    | (I) ○   | d.w.M.R. | 07 | J. Baxendell, for the Corporation.  |
|                            | Stonyhurst ...                   | 53 51 | 2 28 W. | 375 | I                  | —       | W.M.S.R. | 09 | Rev. W. Sidgreaves, S.J., for M.O.  |
| Westmorland:—              | Kirkby Lonsdale ...              | 54 12 | 2 36 W. | 304 | ●                  | —       | —        | —  | R. A. Clarke.   |
| <b>7. (b) NORTH WALES.</b> |                                  |       |         |     |                    |         |          |    |   |
| Anglesey:—                 | Holyhead (Salt Island)           | 53 18 | 4 39 W. | 57  | —                  |         | D.W.M.   | 09 | F. M. Cotton, C.E., for M.O.  |
|                            | " (town) ...                     | 53 18 | 4 39 W. | 48  | T, II <sub>3</sub> | B (B)   | M.       | 09 | T. Chope, for M.O.  |
| Carnarvon:—                | Llaneugrad ...                   | 53 20 | 4 16 W. | 414 | II                 | ○       | d.m.     | —  | W. E. Sotheby.  |
|                            | Colwyn Bay ...                   | 53 16 | 3 44 W. | 82  | III                | ○       | d.W.M.R. | 08 | Wm. Jones, A.M.I.C.E., for Urban District Council.                          |
|                            | M. Llandudno ...                 | 53 20 | 3 50 W. | 71  | II                 | ○       | —        | 07 | William Little, for the Town Council.                                       |
| Denbigh:—                  | Pearhyn Quarry ...               | 53 10 | 4 6 W.  | 527 | ●                  | —       | —        | 01 | W. J. Griffith, for E. A. Young.  |
|                            | Bettws-y-Coed ...                | 53 7  | 3 53 W. | 101 | II                 | ○       | d.W.M.R. | 08 | Dr. H. W. Fox, for District Council.  |
| Flint:—                    | Llanbedr Hall (Ruthin)           | 53 8  | 3 17 W. | 450 | ●                  | —       | —        | —  | George A. Crace-Calvert, M.B.   |
|                            | Penbedw ...                      | 53 12 | 3 11 W. | 650 | —                  | B       | —        | —  | H. W. Buddicom.   |
|                            | Rhyl ...                         | 53 19 | 3 29 W. | 30  | III                | ○       | d.w.m.   | 08 | A. A. Goodall, for District Council.  |
|                            | St. Asaph (St. Beuno's College), | 53 15 | 3 23 W. | 479 | III                | (B)     | m.       | —  | Rev. J. Rowland, S.J.   |
| Merioneth:—                | Aberdovey ...                    | 52 33 | 4 4 W.  | 22  | III                | ○       | w.m.     | 07 | W. J. Eves.   |
|                            | M. Towyn ...                     | 52 35 | 4 5 W.  | 10  | III                | ○       | d.m.     | 07 | E. Lewys Lloyd, M.D., for Urban District Council.                           |
| Montgomery:—               | No station.                      |       |         |     |                    |         |          |    |   |
| <b>8. (a) SOUTH WALES.</b> |                                  |       |         |     |                    |         |          |    |   |
| Brecknock:—                | Llangammarch Wells               | 52 7  | 3 32 W. | 550 | III                | ○       | W.m.R.   | 09 | W. Black Jones, M.D., B.Sc., D.P.H.   |
| Cardigan:—                 | M. Aberystwyth ...               | 52 25 | 4 4 W.  | 59  | III                | ○       | d.w.m.   | 07 | A. Thomas, M.D., for the Urban Council.                                     |
|                            | Lampeter ...                     | 52 7  | 4 5 W.  | 498 | ●                  | —       | —        | —  | John C. Harford.  |
| Carmarthen:—               | Llandovery ...                   | 51 59 | 3 48 W. | 248 | ●                  | —       | —        | —  | Douglas T. M. Jones.  |

The names of Stations added to the list since April, 1909, are printed in clarendon type. The positions of the Stations can be identified on the map, Plate VIII, p. 64, from the figures which give their heights above Mean Sea Level

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|                            |                                  |       |         |     |                    |         |          |    |  |
|----------------------------|----------------------------------|-------|---------|-----|--------------------|---------|----------|----|--|
|                            | Manchester (Oldham Road).        | 53 29 | 2 13 W. | 190 | II                 | ○       | M.R.w.   | 08 | J. Niven, M.A., M.B., for the Corporation.         |
|                            | , (Whitworth Park).              | 53 28 | 2 14 W. | 125 | II                 | K ○ (B) | d.M.     | 08 | The University of Manchester.                      |
|                            | , (Prestwich)                    | 53 32 | 2 17 W. | 320 | II                 | ○       | W.M.r.   | 08 | F. Gore, for Medical Superintendent of the Asylum. |
|                            | M. Southport ...                 | 53 39 | 2 59 W. | 37  | II <sub>3</sub>    | (I) ○   | d.w.M.R. | 07 | J. Baxendell, for the Corporation.                 |
|                            | Stonyhurst ..                    | 53 51 | 2 28 W. | 375 | I                  | —       | W.M.S.R. | 09 | Rev. W. Sidgreaves, S.J., for M.O.                 |
| Westmorland:—              | Kirkby Lonsdale ...              | 54 12 | 2 36 W. | 304 | ●                  | —       | —        | —  | R. A. Clarke.                                      |
| <b>7. (b) NORTH WALES:</b> |                                  |       |         |     |                    |         |          |    |  |
| Anglesey:—                 | Holyhead (Salt Island) ...       | 53 18 | 4 39 W. | 57  | T, II <sub>3</sub> | B       | D.W.M.   | 09 | F. M. Cotton, C.E., for M.O.                       |
|                            | (town) ...                       | 53 18 | 4 39 W. | 48  | II                 | ○ (B)   | M.       | 09 | T. Chope, for M.O.                                 |
|                            | " Llaneugrad ...                 | 53 20 | 4 16 W. | 414 | III                | ○       | d.m.     | —  | W. E. Sotheby.                                     |
| Carnarvon:—                | Colwyn Bay ...                   | 53 16 | 3 44 W. | 82  | III                | ○       | d.W.M.R. | 08 | Wm. Jones, A.M.I.C.E., for Urban District Council. |
|                            | M. Llandudno ...                 | 53 20 | 3 50 W. | 71  | II                 | ○       | —        | 07 | William Little, for the Town Council.              |
| Denbigh:—                  | Penrhyn Quarry ...               | 53 10 | 4 6 W.  | 527 | ●                  | —       | —        | 01 | W. J. Griffith, for E. A. Young.                   |
|                            | Bettws-y-Coed ...                | 53 7  | 3 53 W. | 101 | II                 | ○       | d.W.M.R. | 08 | Dr. H. W. Fox, for District Council.               |
| Flint:—                    | Llanbedr Hall (Ruthin)           | 53 8  | 3 17 W. | 450 | ●                  | —       | —        | —  | George A. Crace-Calvert, M.B.                      |
|                            | Penbedw ...                      | 53 12 | 3 11 W. | 650 | III                | B       | —        | —  | H. W. Buddicom.                                    |
|                            | Rhyl ...                         | 53 19 | 3 29 W. | 30  | III                | ○       | d.w.m.   | 08 | A. A. Goodall, for District Council.               |
|                            | St. Asaph (St. Beuno's College). | 53 15 | 3 23 W. | 479 | III                | (B)     | m.       | —  | Rev. J. Rowland, S.J.                              |
| Merioneth:—                | Aberdovey ...                    | 52 33 | 4 4 W.  | 22  | III                | ○       | w.m.     | 07 | W. J. Eves.  |
|                            | M. Towyn ...                     | 52 35 | 4 5 W.  | 10  | III                | ○       | d.m.     | 07 | E. Lewys Lloyd, M.D., for Urban District Council.  |
| Montgomery:—               | No station.                      |       |         |     |                    |         |          |    |  |
| <b>8. (a) SOUTH WALES.</b> |                                  |       |         |     |                    |         |          |    |  |
| Brecknock:—                | Llangammarch Wells               | 52 7  | 3 32 W. | 550 | III                | ○       | W.m.R.   | 09 | W. Black Jones, M.D., B.Sc., D.P.H.                |
| Cardigan:—                 | M. Aberystwyth ...               | 52 25 | 4 4 W.  | 59  | III                | ○       | d.w.m.   | 07 | A. Thomas, M.D., for the Urban Council.            |
| Carmarthen:—               | Lampeter ...                     | 52 7  | 4 5 W.  | 498 | ●                  | —       | —        | —  | John C. Harford.                                   |
|                            | Llandovery ...                   | 51 59 | 3 48 W. | 248 | ●                  | —       | —        | —  | Douglas T. M. Jones.                               |

F The names of Stations added to the list since April, 1909, are printed in clarendon type. The positions of the Stations can be identified on the map, Plate VIII., p. 64, from the figures which give their heights above Mean Sea Level

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                    | Lat.    | Long.     | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication.   | Year<br>of last<br>Inspection. | Observer.   |
|--|---------|-----------|--------------------------------------|-------------------|--------------|----------------|--------------------------------|---|
|  |         |           |                                      | Eye Obs.          | Autographic. |                |                                |   |
| <b>8. (a) SOUTH WALES—<i>cont.</i></b> |         |           |                                      |                   |              |                |                                |   |
| Glamorgan :— Cardiff                   | 51° 28' | 3° 10' W. | 50                                   | III               | ○            | W.m.r.         | 07                             | E. Walford, M.D., for the Corporation.                |
| Port Talbot                            | 51° 34' | 3° 45' W. | 179                                  | ●                 | ○            | (m.)           | 03                             | Miss Talbot: G. Lipscomb.                             |
| Swansea                                | 51° 37' | 3° 55' W. | 24                                   | III               | —            | m.             | 07                             | D. Bliss, for the Corporation.                        |
| Pembroke :— Haverfordwest              | 51° 48' | 4° 58' W. | 93                                   | (II)              | ○(B)         | (m.)           | 01                             | J. W. Phillips.                                       |
| Pembroke (St. Ann's Head).             | 51° 41' | 5° 11' W. | 149                                  | T, II,            | ○            | D.W.M.R.       | 08                             | J. F. Spicer, A. S. Jackson, Lightkeepers, for M.O.   |
| Tenby                                  | 51° 41' | 4° 42' W. | 79                                   | —                 | ○            | w.(m.)         | 03                             | Miss M. B. Truscott, for the Corporation.             |
| Radnor :— Llandrindod Wells            | 52° 14' | 3° 23' W. | 699                                  | ●                 | —            | —              | —                              | W. B. de Winton.                                      |
| Rhayader Watershed                     | 52° 18' | 3° 29' W. | *                                    | (15) ●            | —            | —              | —                              | Corporation of Birmingham, Water Department.          |
| <b>8. (b) ENGLAND, SOUTH WEST.</b>     |         |           |                                      |                   |              |                |                                |   |
| Cornwall :— Falmouth                   | 50° 9'  | 5° 4' W.  | 167                                  | I                 | I            | W.M.R.         | 09                             | Royal Cornwall Polytechnic Society, for M.O.          |
| „ Pendennis Castle.                    | 50° 8'  | 5° 3' W.  | —                                    | —                 | ■            | —              | 09                             | Coastguard, for M.O.                                  |
| Fowey                                  | 50° 21' | 4° 38' W. | —                                    | III               | ○            | m.             | —                              | Dr. W. H. Boger.                                      |
| M. Newquay                             | 50° 25' | 5° 4' W.  | 100                                  | III               | ○            | w.(m.)         | 04                             | C. C. Vigurs, B.A., M.D., for Urban District Council. |
| M. Penzance                            | 50° 7'  | 5° 32' W. | 54                                   | III               | ○(B)         | m.             | 08                             | Chas. H. Benn, for District Council.                  |
| Devonshire :— Arlington Court          | 51° 8'  | 3° 58' W. | 613                                  | III               | —            | W.m.           | 06                             | Miss Chichester.                                      |
| Barnstaple                             | 51° 5'  | 4° 3' W.  | 24                                   | III               | —            | —              | 06                             | Thos. Wainwright, for the North Devon Athenaeum.      |
| McCullompton                           | 50° 51' | 3° 23' W. | 202                                  | III               | ○            | W.m.           | 07                             | M. T. Foster.   |
| Paignton                               | 50° 26' | 3° 34' W. | 11                                   | II                | ○(B)         | m.d.           | —                              | F. J. Rodgers, for Town Council.                      |
| Plymouth                               | 50° 22' | 4° 8' W.  | 116                                  | II,               | ■(B)         | d.W.M.S.R.r. ■ | 09                             | H. Victor Prigg, A.M.I.C.E., for the Corporation.     |

|              |                           |     |     |       |         |      |        |       |            |    |  |
|--------------|---------------------------|-----|-----|-------|---------|------|--------|-------|------------|----|--|
|              | Rousdon                   | ... | ... | 50 43 | 3 0 W.  | 515  | II     | ○ (B) | M.         | 07 | C. Grover, for The Hon. Lady Peek.                               |
|              | M. Salcombe               | ... | ... | 50 14 | 3 46 W. | 300  | —      | ○     | (m.)       | 04 | V. W. Twining, M.D.  |
|              | M. Sheepstor              | ... | ... | 50 29 | 4 1 W.  | 749  | III    | —     | m.         | —  | Rev. H. H. Breton, M.A.  |
|              | M. Teignmouth             | ... | ... | 50 33 | 3 29 W. | 20   | III    | —     | d.m.       | —  | G. Rossiter for M.O.H.   |
|              | M. Torquay                | ... | ... | 50 28 | 3 31 W. | 12   | III    | —     | d.w.(m.)   | 00 | F. March, for the Corporation.                                   |
|              | Whitchurch                | ... | ... | 50 32 | 4 6 W.  | 593  | II     | —     | M.         | 07 | E. E. Glyde.   |
| Dorset :—    | Woolacombe                | ... | ... | 51 10 | 4 12 W. | 59   | II     | —     | S.M.R.     | 07 | R. N. Kivell, for Miss Chichester.                               |
|              | Parkstone                 | ... | ... | 50 43 | 1 56 W. | 197  | ●      | —     | —          | 00 | C. Mabey.  |
|              | Portland Bill             | ... | ... | 50 32 | 2 27 W. | 19   | T, II, | B     | D.W.M.R.   | 09 | G. Carpenter, Lightkeeper, for M.O.                              |
|              | Shaftesbury               | ... | ... | 51 1  | 2 12 W. | 722  | III    | —     | W.m.       | 09 | Rev. F. Ehlers.  |
| Monmouth :—  | M. Weymouth               | ... | ... | 50 36 | 2 27 W. | 21   | III    | —     | d.m.       | 08 | I. J. Brown.   |
|              | Abergavenny               | ... | ... | 51 49 | 3 2 W.  | 178  | ●      | —     | —          | —  | A. V. Whitehead.   |
|              | Abersychan                | ... | ... | 51 44 | 3 5 W.  | 698  | ●      | —     | —          | —  | W. P. James.   |
|              | Newchurch                 | ... | ... | 51 41 | 2 48 W. | 525  | ●      | —     | —          | —  | —  |
|              | Newport                   | ... | ... | 51 35 | 3 0 W.  | 32   | III    | —     | —          | 04 | C. Cullum, for the Corporation of Newport.                       |
|              | Pant-y-reos               | ... | ... | 51 38 | 3 4 W.  | 449  | ●      | —     | —          | 00 | —  |
|              | Ynis-y-fro                | ... | ... | 51 38 | 3 3 W.  | 151  | ●      | —     | —          | 00 | —  |
| Somerset :—  | M. Bath                   | ... | ... | 51 23 | 2 21 W. | 66   | T      | (B) ○ | D.W.M.R.   | 09 | W. H. Symons, M.D., for the Corporation.                         |
|              | <b>9. IRELAND, NORTH.</b> |     |     |       |         |      |        |       |            |    |  |
|              | (a) <i>Western Part.</i>  |     |     |       |         |      |        |       |            |    |  |
| Galway :—    | Ardfry                    | ... | ... | 53 19 | 9 0 W.  | —    | —      | B     | —          | —  | W. M. Tattersall, for the Department of Agriculture for Ireland. |
|              | Recess                    | ... | ... | 53 28 | 9 44 W. | 90   | ●      | —     | —          | —  | M. Macarthy, for the M. G.W. Railway.                            |
| Leitrim :—   | Carrigallen               | ... | ... | 53 58 | 7 38 W. | 350? | ●      | —     | —          | —  | Miss Morrow.   |
| Mayo :—      | Black sod Point           | ... | ... | 54 6  | 10 4 W. | 37   | T, II, | B     | D.W.M.R.r. | 09 | The Chief Officer, Coastguard, for M.O.                          |
|              | Mallaranny                | ... | ... | 53 55 | 9 40 W. | 119  | ●      | —     | —          | 08 | The Manageress of the Hotel for the M. G.W. Railway.             |
| Roscommon :— | No station.               |     |     |       |         |      |        |       |            |    |  |
| Sligo :—     | Markree Castle            | ... | ... | 54 11 | 8 27 W. | 122  | II     | ○     | W.M.S.R.   | 09 | J. R. Armstrong, for Captain Cooper, M.P.                        |

The names of Stations added to the list since April, 1909, are printed in clarendon type. The positions of the Stations can be identified on the map, Plate VIII., p. 64, from the figures which give their heights above Mean Sea Level.

\* 15 Rainfall Stations.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station,                   | Lat.           | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer.  |  |  |  |  |  |  |
|---------------------------------------|----------------|---------|--------------------------------------|-------------------|--------------|--------------|-------------------------------------|--|--|--|--|--|--|--|
|                                       |                |         |                                      | Eye Obs.          | Autographic. |              |                                     |  |  |  |  |  |  |  |
| <b>9. IRELAND, NORTH—<i>cont.</i></b> |                |         |                                      |                   |              |              |                                     |  |  |  |  |  |  |  |
| (b) <i>Eastern Part.</i>              |                |         |                                      |                   |              |              |                                     |  |  |  |  |  |  |  |
| Antrim :—                             | Belfast        | ... ... | 5 $\frac{1}{2}$ 35                   | 5 56 W.           | 61           | III          | —                                   | M. R.  |  |  |  |  |  |  |
|                                       | Glenarm        | ... ... | 5 $\frac{1}{2}$ 58                   | 5 56 W.           | 41           | ●            | —                                   | John Wylie, B.A., and G. Robinson, for Prof. Morton.     |  |  |  |  |  |  |
| Armagh :—                             | Armagh         | ... ... | 5 $\frac{1}{2}$ 21                   | 6 39 W.           | 196          | II           | — ○ ●                               | The Earl of Antrim.                                      |  |  |  |  |  |  |
| Cavan :—                              | No station.    |         |                                      |                   |              |              |                                     | J. L. E. Dreyer, Ph.D., for M.O.                         |  |  |  |  |  |  |
| Donegal :—                            | Dunfanaghy     | ... ... | 55 11                                | 7 58 W.           | 54           | III          | —                                   | J. J. MacGrath, L.R.C.P.                                 |  |  |  |  |  |  |
|                                       | Killybegs      | ... ... | 54 40                                | 8 27 W.           | 221          | ●            | —                                   | John C. Ward.  |  |  |  |  |  |  |
|                                       | Malin Head     | ... ... | 55 23                                | 7 24 W.           | 230          | T            | B                                   | Chief Officer, Coastguard, for M.O.                      |  |  |  |  |  |  |
|                                       | Rosbeg (Narin) | ... ... | 54 50                                | 8 30 W.           | —            | —            | —                                   | J. McLoone, Postmaster.                                  |  |  |  |  |  |  |
| Down :—                               | Donaghadee     | ... ... | 54 38                                | 5 32 W.           | 40           | T, II,       | B                                   | T. Arnell, Coastguard, for M.O.                          |  |  |  |  |  |  |
| Fermanagh :—                          | No station.    |         |                                      |                   |              |              |                                     |  |  |  |  |  |  |  |
| Londonderry :—                        | No station.    |         |                                      |                   |              |              |                                     |  |  |  |  |  |  |  |
| Longford :—                           | No station.    |         |                                      |                   |              |              |                                     |  |  |  |  |  |  |  |
| Louth :—                              | No station.    |         |                                      |                   |              |              |                                     |  |  |  |  |  |  |  |
| Meath :—                              | No station.    |         |                                      |                   |              |              |                                     |  |  |  |  |  |  |  |
| Monaghan :—                           | No station.    |         |                                      |                   |              |              |                                     |  |  |  |  |  |  |  |
| Tyrone :—                             | No station.    |         |                                      |                   |              |              |                                     |  |  |  |  |  |  |  |
| Westmeath :—                          | No station.    |         |                                      |                   |              |              |                                     |  |  |  |  |  |  |  |
| <b>10. IRELAND, SOUTH.</b>            |                |         |                                      |                   |              |              |                                     |  |  |  |  |  |  |  |
| (a) <i>Eastern Part.</i>              |                |         |                                      |                   |              |              |                                     |  |  |  |  |  |  |  |
| Carlow :—                             | No station.    |         |                                      |                   |              |              |                                     |  |  |  |  |  |  |  |
| Dublin :—                             | M. Dublin City | ... ... | 53 20                                | 6 15 W.           | 47           | II           | B                                   | Sir John W. Moore, M.D., D.Sc.                           |  |  |  |  |  |  |
|                                       | „ Phoenix Park | 53 22   |                                      | 6 21 W.           | 155          | II           | ○                                   | Lt.-Col. C. C. J. Pery, R.E.,<br>Ordnance Survey Office. |  |  |  |  |  |  |
|                                       |                |         |                                      |                   |              |              | w.M.S.                              | 09   |  |  |  |  |  |  |

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

|                   |                             |       |         |     |       |         |              |    |  |
|-------------------|-----------------------------|-------|---------|-----|-------|---------|--------------|----|--|
|                   | Botanic Gar-                | 53 23 | 6 16 W. | 67  | II    | —       | m.           | 07 | F. W. Moore, M.R.I.A.                                    |
|                   | Trinity College             | 53 21 | 6 16 W. | 12  | II    | ○       | M.(R.)w.     | 07 | W. J. Good and W. H. Clark,<br>for Prof. Thrift.         |
| Dundrum           | ... ...                     | 53 16 | 6 14 W. | 200 | III   | —       | —            | —  | Dr. Arthur S. Goff.                                      |
| Killiney          | ... ...                     | 53 16 | 6 7 W.  | 249 | ●     | —       | —            | —  | R. O'Brien Furlong, C.B. and<br>Mrs. G. B. Symes.        |
| M. Kingstown      | ... ...                     | 53 17 | 6 8 W.  | 42  | III   | ○       | m.           | 09 | R. A. O'Donovan, M.D., for the<br>Corporation.           |
| " Harbour         | ...                         | 53 17 | 6 8 W.  | —   | —     | ■       | ■            | 09 | Captain A. F. Holmes, R.N., for<br>H.M. Office of Works. |
| Kildare :—        | Clongowes Wood<br>College.  | 53 19 | 6 41 W. | 245 | III   | (B Θ) ○ | m.           | 09 | Rev. J. J. Nerney, S.J.                                  |
| Kilkenny :—       | Kilkenny                    | 52 39 | 7 14 W. | 212 | III   | B       | W.m.         | 09 | E. Sutton, for the Marquis of<br>Ormonde, K.P.           |
| King's Co. :—     | Birr Castle                 | 53 6  | 7 55 W. | 175 | II, T | ○       | D.W.M.S.R.r. | 09 | Dr. Boedicker, for the Earl of<br>Rosse.                 |
| Queen's Co. :—    | Mountmellick                | 53 7  | 7 20 W. | 253 | III   | —       | m.           | 09 | W. A. Robinson.  |
| Waterford :—      | Waterford                   | 52 16 | 7 7 W.  | —   | —     | B       | —            | 02 | Harbour Authorities.                                     |
| Wexford :—        | No station.                 | 52 16 | 7 7 W.  | 20? | III   | —       | W.m.R.       | 07 | J. N. White.   |
| Wicklow :—        | Bray                        | 53 12 | 6 6 W.  | 153 | ●     | —       | —            | —  | Miss A. L. Scott.  |
|                   | M. Newcastle                | 53 5  | 6 6 W.  | 256 | II    | —       | m.           | 02 | L. T. Burra, M.D.  |
| (b) Western Part. |                             |       |         |     |       |         |              |    |  |
| Clare :—          | Ennistymon                  | 52 57 | 9 17 W. | 130 | ●     | —       | —            | —  | Rev. C. W. McDowell, M.A.                                |
|                   | Hurdlestown                 | 52 48 | 8 38 W. | 157 | ●     | —       | —            | —  | Lt.-Col. W. O. Bentley, R.A.                             |
|                   | Mount Callan                | 52 53 | 9 16 W. | 479 | ●     | —       | —            | 98 | Lt.-Col. Tottenham.                                      |
|                   | Newmarket - on -<br>Fergus. | 52 46 | 8 53 W. | 85  | ●     | —       | —            | 98 | Alfred Barker, for W. W. A.<br>Fitzgerald.               |
| Cork :—           | Ballinacurra                | 51 52 | 8 10 W. | 24  | III   | ○       | w.m.         | 07 | John H. Bennett.   |
|                   | Doneraile                   | 52 13 | 8 34 W. | 266 | ●     | —       | —            | —  | Capt. J. W. Evans, J.P.                                  |
|                   | Roche's Point               | 51 47 | 8 15 W. | 32  | T     | —       | D.W.M.R.r.   | 09 | M. FitzMahony, Post Office, for M.O.                     |
|                   | " "                         | 51 47 | 8 15 W. | —   | —     | ■       | ■            | 09 | Captain G. Usborne, for Cork<br>Harbour Commissioners.   |

The names of Stations added to the list since April, 1909, are printed in clarendon type. The positions of the Stations can be identified on the map, Plate II., p. 64, by the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                               | Lat.                               | Long.  | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer.                                 |  |  |  |  |  |  |
|---|------------------------------------|--------|--------------------------------------|-------------------|--------------|--------------|-------------------------------------|---|--|--|--|--|--|--|
|   |                                    |        |                                      | Eye Obs.          | Autographic. |              |                                     |   |  |  |  |  |  |  |
| <b>10. IRELAND, SOUTH—cont.</b>                   |                                    |        |                                      |                   |              |              |                                     |   |  |  |  |  |  |  |
| (b) <i>Western Part</i> —cont.                    |                                    |        |                                      |                   |              |              |                                     |   |  |  |  |  |  |  |
| Kerry :—  | Caragh Lake ...                    | 52° 3' | 9° 53' W.                            | —                 | ●            | —            | —                                   | Admiral E. F. Jeffreys, C.V.O.            |  |  |  |  |  |  |
|   | Killarney ...                      | 52 4   | 9 30 W.                              | 174               | III          | —            | W.m.R.                              | E. W. Griffin, M.D.                       |  |  |  |  |  |  |
|   | Valencia ...                       | 51 56  | 10 15 W.                             | 30                | I, T         | I, B         | D.W.M.R.r.                          | J. E. Cullum, for M.O.                    |  |  |  |  |  |  |
| Limerick :—                                       | " Glanleam ...                     | 51 56  | 10 20 W.                             | —                 | ●            | —            | —                                   | A. O'Donoghue.                            |  |  |  |  |  |  |
|   | Foynes ...                         | 52 37  | 9 7 W.                               | 108               | III          | —            | W.m.                                | J. J. Alcorn, for Lord Monteagle,<br>K.P. |  |  |  |  |  |  |
|   | Limerick (Derravoller)             | 52 38  | 8 40 W.                              | 40                | ●            | —            | —                                   | Sir A. W. Shaw.                           |  |  |  |  |  |  |
|   | " (Mungret Coll.).                 | 52 38  | 8 41 W.                              | —                 | II           | (B)          | M.                                  | Rev. W. O'Leary, S.J.                     |  |  |  |  |  |  |
| Tipperary :—                                      | St Cahir (Bengurragh)              | 52 22  | 7 56 W.                              | 199               | III          | —            | W.m.                                | R. W. Smith, Jun.                         |  |  |  |  |  |  |
| <b>11. ENGLISH CHANNEL<br/>(WESTERN SECTION).</b> |                                    |        |                                      |                   |              |              |                                     |   |  |  |  |  |  |  |
| Guernsey :—                                       | M. St. Peter Port, Villa<br>Carey. | 49 27  | 2 32 W.                              | 180               | III          | ○            | W.m.                                | F. E. Carey, M.D.                         |  |  |  |  |  |  |
|   | St. Peter Port, Brook-<br>lyn.     | 49 27  | 2 31 W.                              | 297               | II           | ○ (B θ)      | w.M.R.                              | Adolphus Collenette.                      |  |  |  |  |  |  |
| Jersey :—   | St. Aubin's ...                    | 49 12  | 2 11 W.                              | 25                | T, II,       | —            | D.W.M.R.                            | J. Fisher, for M.O.                       |  |  |  |  |  |  |
|   | St. Helier's ...                   | 49 11  | 2 6 W.                               | —                 | —            | ○            | d.w.(m.)R.                          | Signal Officer, Fort Regent, for<br>M.O.  |  |  |  |  |  |  |
| Scilly :—   | St. Mary's ...                     | 49 56  | 6 18 W.                              | 131               | T, II,       | B ↗ ○        | D.W.M.R. ↗                          | The Coastguard, for M.O.                  |  |  |  |  |  |  |

The names of Stations added to the list since April, 1909, are printed in clarendon type. The positions of the Stations can be identified on the map, Plate VIII., p. 64, by the figures which give their heights above Mean Sea Level.

## Appendix II.—Supply of Information to the Public. 87

## LIST OF FOREIGN STATIONS FROM WHICH REPORTS ARE RECEIVED DAILY BY TELEGRAPH. (See PAGE 47.)

| Name of Station.           | Authority.   |
|----------------------------|--|
| *Reykjavik                 |  |
| **Blonduös                 |  |
| *Akureyri                  | (Iceland) ... } Meteorological Institute, Copenhagen.<br>Isafjord } Captain Ryder, <i>Director</i> . |
| *Seydisfjord               |  |
| *Thorshavn, Faeröe Islands | ...  |
| Haparanda                  | ... ... }  |
| Hernösand                  | ... ... }  |
| *Stockholm                 | ... ... } Meteorological Office, Stockholm.<br>Wisby } Dr. Hamberg, <i>Director</i> .                |
| Karlstad                   | ... ... }  |
| Bodö                       | ... ... }  |
| *Christiansund             | ... ... }  |
| *Skudenesnaes              | ... ... } Meteorological Institute, Christiania.<br>Færder } Professor Mohn, <i>Director</i> .       |
| *The Skaw                  | ... ... }  |
| Fanö                       | ... ... }  |
| Cuxhaven                   | ... ... }  |
| Berlin                     | ... ... }  |
| Frankfurt                  | ... ... }  |
| Munich                     | ... ... }  |
| *The Helder                | ... ... } Meteorological Institute, Utrecht.<br>Brussels } Dr. van Everdingen, <i>Director</i> .     |
| Cape Gris Nez              | ... ... }  |
| La Hève                    | ... ... }  |
| *Ushant                    | ... ... }  |
| *Brest (St. Mathieu)       | ... ... }  |
| Lorient (Ile de Groix)     | ... ... }  |
| *Er-Hastellic              | ... ... }  |
| *Rochefort (Ile d'Aix)     | ... ... }  |
| *Chassiron                 | ... ... }  |
| *La Coubre                 | ... ... } Bureau Central Météorologique, Paris.<br>Biarritz } M. Alfred Angot, <i>Director</i> .     |
| *Paris                     | ... ... }  |
| Belfort                    | ... ... }  |
| Lyons                      | ... ... }  |
| Nice                       | ... ... }  |
| Perpignan                  | ... ... }  |
| *Cape Béarn                | ... ... }  |
| Sanguinaire (Corsica)      | ... ... }  |
| Corunna                    | ... ... }  |
| Lisbon                     | ... ... }  |
| Madeira (Funchal)          | ... ... }  |
| *Azores (Ponta Delgada)    | ... ... }  |
| ,, (Horta)                 | ... ... }  |

Note.—The stations marked (\*) report also at 1h. p.m., and those marked (\*\*) at 6h. p.m.  
Lisbon reports at 4h. p.m. instead of 6h. p.m., and Ponta Delgada at 3h. p.m.

\* The reports from these stations are not published in the Daily Weather Report.

**LIST OF ADDITIONAL STATIONS FROM WHICH REPORTS ARE RECEIVED FOR THE DAILY WEATHER REPORT. (See p. 47.)**

| Station.         | Hour<br>of<br>Observation.                      | Station.          | Hour<br>of<br>Observation.             |
|------------------|---|-------------------|--|
| Strathpeffer..   | 8 p.m. By wire.                                 | Bournemouth       | 8 p.m. By wire and post.               |
| Oban .. ..       | 8 p.m. By wire.                                 | Southsea ..       | 8 p.m. By wire.                        |
| Dublin ..        | 4 p.m. By post.                                 | Bognor ..         | 8 p.m. By wire and post.               |
| Rossall Beach .. | 8 p.m. By post.                                 | Worthing ..       | 8 p.m. By wire and post.               |
| Blackpool ..     | 8 p.m. By wire; and 8 p.m.<br>by post.          | Brighton ..       | 8 p.m. By wire and post.               |
| Southport ..     | 6 p.m. By wire; and 9 p.m.<br>by post           | Eastbourne ..     | 8 p.m. By wire and post.               |
| Rhyl .. ..       | 8 a.m. By wire; and 6 p.m.<br>by wire and post. | Bexhill-on-Sea .. | 9 p.m. By post.                        |
| Colwyn Bay ..    | 8 p.m. By wire and post.                        | Hastings ..       | 8 p.m. By wire and post.               |
| Llandudno ..     | 6 p.m. By wire; and 9 p.m.<br>by post.          | Folkestone ..     | 8 p.m. By wire and post.               |
| Bettws-y-Coed .. | 8 p.m. By wire.                                 | Ramsgate ..       | 8 p.m. By wire and post.               |
| Towyn ..         | 8 p.m. By wire and post.                        | Margate ..        | 8 p.m. By wire and post.               |
| Aberystwyth ..   | 6 p.m. By wire.                                 | Felixstowe ..     | 8 p.m. By wire and post.               |
| Plymouth ..      | 9 p.m. By post.                                 | Lowestoft ..      | 8 p.m. By wire and post.               |
| Paignton ..      | 6 p.m. By wire and post.                        | Skegness ..       | 8 p.m. By wire and post.               |
| Torquay ..       | 6 p.m. By wire and post.                        | Scarborough ..    | 8 p.m. By wire; and 9 p.m.<br>by post. |
| Teignmouth ..    | 9 p.m. By post.                                 | Harrogate ..      | 8 p.m. By wire and post.               |
| Weymouth ..      | 6 p.m. By wire and post.                        | Buxton ..         | 8 p.m. By wire and post.               |
|                  |   | Darwen ..         | 9 p.m. By post.                        |
|                  |   | Manchester ..     | 9 p.m. By post.                        |
|                  |   | Birmingham ..     | 9 p.m. By post.                        |

**LIST OF SEA TEMPERATURE STATIONS.**

|                                       |                                |
|---------------------------------------|--------------------------------|
| § *Aberdeen, Cove Bay.                | § *Newquay, Cornwall.          |
| *Arran, North, Galway.                | † North Arklow Lightship.      |
| † Bahama Bank Lightship.              | *North Arran (see Arran).      |
| § *Ballantrae, Ayrshire.              | † North-West Lightship.        |
| *Ballydonegan, Co. Cork.              | † Outer Dowsing Lightship.     |
| † Barrels Rock Lightship.             | † Owers Lightship.             |
| *Blacksod Point, Co. Mayo.            | § *Pennan Bay (Aberdour).      |
| † Blackwater Bank Lightship.          | § <sup>4</sup> Plymouth.       |
| § *Burnmouth, Ayton, Berwick.         | § <sup>5</sup> Port Erin.      |
| Burntisland.                          | *Portrush.                     |
| † Carnarvon Bay Lightship.            | † Royal Sovereign Lightship.   |
| § *Cleggan, Co. Galway.               | *St. Ann's Head, Pembroke.     |
| † Coningbeg Lightship.                | § *Salcombe, Devon.            |
| § *Cromarty.                          | § *Scarborough.                |
| † Daunts Rock Lightship.              | * Scilly Islands (St. Mary's). |
| § <sup>1</sup> Eastbourne.            | § *Seafield, Co. Clare.        |
| † East Goodwin Lightship.             | † Seven Stones Lightship.      |
| † English and Welsh Grounds           | † Shambles Lightship.          |
| Lightship.                            | §† Sheephaven (Dunfanaghy).    |
| † Fastnet Rock Lighthouse.            | §† Shipwash Lightship.         |
| <sup>2</sup> Holyhead Harbour Office. | † Skulmartin Lightship.        |
| § *Kirkwall.                          | † Solway Lightship.            |
| † Kish Bank Lightship.                | † South Arklow Lightship.      |
| § *Lamlash, Isle of Arran.            | † South Rock Lightship.        |
| † Leman and Ower Lightship.           | † Spurn Lightship.             |
| § *Lerwick.                           | * Stornoway.                   |
| *Liscannor, Co. Clare.                | * Sunderland.                  |
| § <sup>3</sup> Margate.               | § *Teelin, Co. Donegal.        |
| † Morecambe Bay Lightship.            | * Usan (Montrose).             |
| † Newarp Lightship.                   | § *Wick.                       |

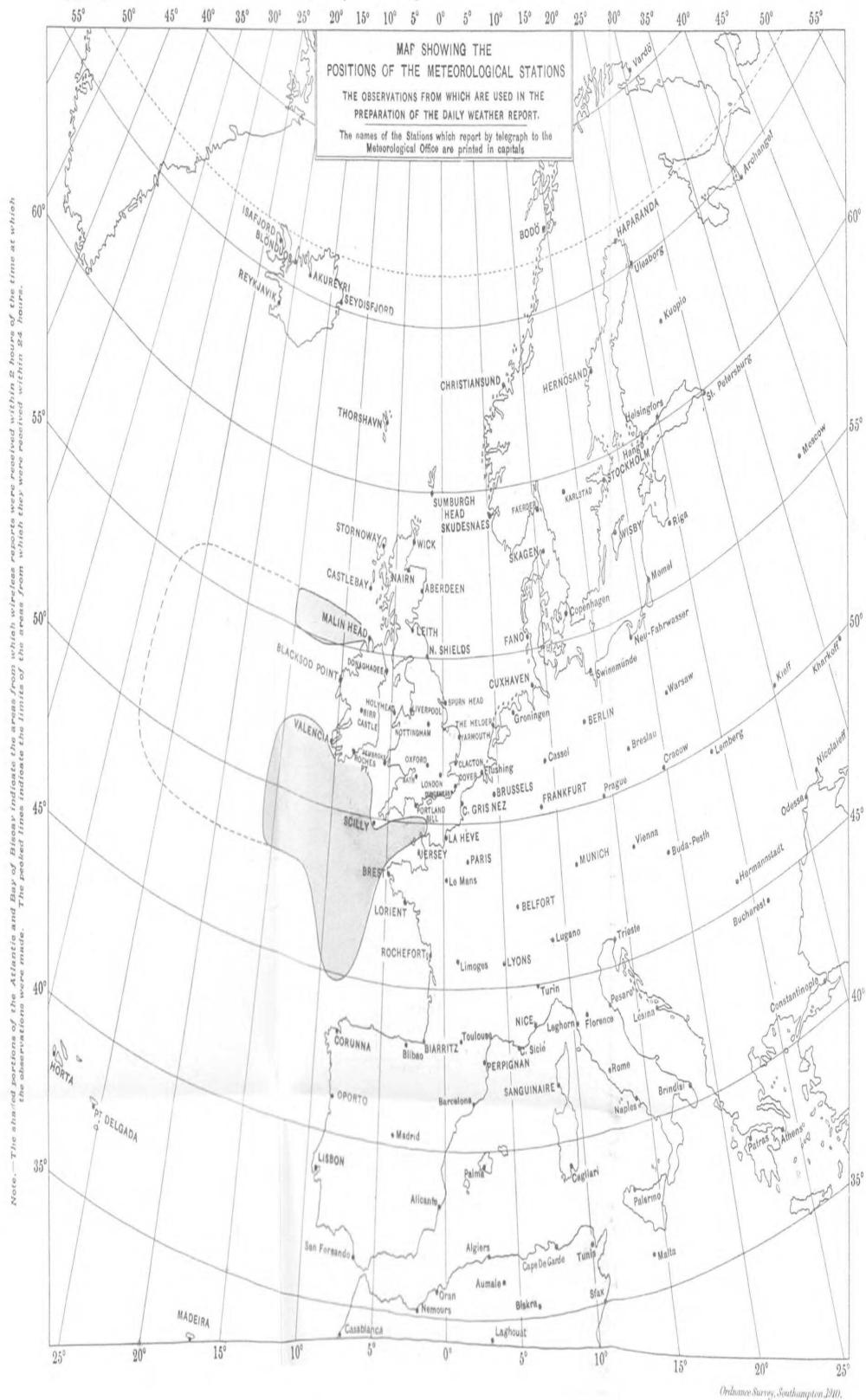
The observers are indicated thus:—\* Coastguard, † Lightkeepers, <sup>1</sup>S. R. Henderson, <sup>2</sup>F. M. Cotton, C.E., <sup>3</sup>W. J. Woodruff, <sup>4</sup>H. Victor Prigg, <sup>5</sup>Biological Station.

§ Stations marked thus send weekly returns for publication in the Weekly Weather Report.

Plate X.

*Report of Meteorological Committee, 1909-1910.*

To face p.



**LIST OF STATIONS in the COLONIES and DEPENDENCIES and in FOREIGN COUNTRIES from WHICH RETURNS are received in MANUSCRIPT.**

NOTE.—Returns received in printed form are not included in this list.

| Station.                       | Latitude. | Longitude. | Height in Feet above M.S.L. | Order of Station. | Year of Commencement of Observations. | Observer.   |
|--------------------------------|-----------|------------|-----------------------------|-------------------|---------------------------------------|---|
| <b>MEDITERRANEAN.</b>          |           |            |                             |                   |                                       |   |
| Cyprus,* †Famagusta ... ...    | 35 7 N.   | 33 57 E.   | 34                          | II                | 1881                                  |   |
| „ †Kyrenia ... ...             | 35 21 N.  | 33 19 E.   | 54                          | II                | 1881                                  |   |
| „ †Larnaca ... ...             | 34 55 N.  | 33 37 E.   | 19                          | II                | 1881                                  |   |
| „ †Limassol ... ...            | 34 40 N.  | 33 1 E.    | 26                          | II                | 1881                                  |   |
| „ †Nicosia ... ...             | 35 11 N.  | 33 22 E.   | 493                         | II                | 1881                                  |   |
| „ †Papho ... ...               | 34 46 N.  | 32 25 E.   | 202                         | II                | 1881                                  |   |
| Gibraltar ... ...              | 30 6 N.   | 5 21 W.    | 48                          | II                | 1883                                  | Colonial Secretary's Department.  |
| Morocco, †Cape Spartel ... ... | 35 47 N.  | 5 55 W.    | 191                         | II                | 1893                                  | Edwin C. Hathaway, for Lloyds.  |
| „ Mogador ... ...              | 31 30 N.  | 9 42 W.    | 19                          | ●                 | 1903                                  | H. B. Johnstone, H.B.M. Vice-Consul.  |
| „ Saffi ... ...                | †32 17 N. | 9 8 W.     | 40                          | ●                 | 1905                                  | N. A. de Silva.   |
| Syria, Beyrouth ... ...        | 33 54 N.  | 35 28 E.   | 172                         | II                | 1883                                  | A. S. Kheiri, B.A., for Alfred H. Joy, M.A., Director of the Syrian Protestant College. |
| Turkey, Smyrna ... ...         | 38 26 N.  | 17 9 E.    | 50                          | III               | 1908                                  | H. Echiboukdjian, for Rev. Alex. MacLachlan, President, International College.          |
| <b>AFRICA.</b>                 |           |            |                             |                   |                                       |   |
| Central :—                     |           |            |                             |                   |                                       |   |
| Uganda, Entebbe ... ...        | 0 4 N.    | 32 28 E.   | 3,863                       | III               | 1896                                  |   |
| „ Fort Portal ... ...          | 0 43 N.   | 30 8 E.    | 5,299                       | III               | 1901                                  |   |
| „ Gondokoro ... ...            | 4 51 N.   | 31 42 E.   | 1,500                       | III               | 1901                                  |   |
| „ Jinja ... ...                | 0 26 N.   | 33 11 E.   | 3,722                       | III               | 1901                                  | M. T. Dawe, Director of the Scientific Department.                                      |

\* By arrangement with the Colonial Office and the Survey Department of Egypt the returns for these stations are sent in the first instance to the Survey Department for use in connexion with its Monthly Weather Report. They are sent to the Office for ultimate filing.

† The positions and heights of the stations are those given by the observers, except in cases marked †, for which the information given has been obtained from other sources.

‡ The Meteorological instruments in use at this Station are lent by the Meteorological Committee.

LIST OF STATIONS in the COLONIES, &c., from which RETURNS are received in MANUSCRIPT—*continued.*

| Station.                   | Latitude. | Longitude. | Height in<br>Feet above<br>M.S.L. | Order<br>of<br>Station. | Year of<br>Commence-<br>ment of<br>Observations. | Observer.  |
|----------------------------|-----------|------------|-----------------------------------|-------------------------|--|--|
| <b>AFRICA—continued.</b>   |           |            |                                   |                         |  |  |
| Central— <i>continued.</i> | °   °     | °   °      |                                   |                         |  |  |
| Uganda, Kampala            | 0 19 N.   | 32 35 E.   | 3,905                             | III                     | 1907   | M. T. Dawe, Director of the Scientific Department. |
| " Koba                     | 2 19 N.   | 31 29 E.   | —                                 | III                     | 1907   |  |
| " Masaka                   | 0 21 N.   | 31 47 E.   | —                                 | III                     | 1902   |  |
| " Masindi                  | 1 40 N.   | 31 50 E.   | 3,764                             | III                     | 1906   |  |
| " Mbarara                  | 0 31 N.   | 30 47 E.   | 4,500                             | III                     | 1901   |  |
| " Nimule                   | 3 39 N.   | 32 10 E.   | 2,034                             | III                     | 1903   |  |
| West:—                     |           |            |                                   |                         |  |  |
| Gold Coast, Aburi          | 5 50 N.   | 0 10 W.    | 556                               | III                     | 1893   |  |
| " Accra                    | 5 35 N.   | 0 6 W.     | 1                                 | III                     | 1893   |  |
| " §Addah                   | 5 50 N.   | 0 38 E.    | 1                                 | III                     | 1895   |  |
| " Axim                     | 4 50 N.   | 2 12 W.    | 1                                 | III                     | 1895   |  |
| " †Cape Coast Castle       | 5 15 N.   | 0 30 W.    | 1                                 | III                     | 1895   |  |
| " Gambaga                  | 10 31 N.  | 0 26 W.    | —                                 | III                     | 1899   |  |
| " Kintampo                 | 8 5 N.    | 1 30 W.    | —                                 | III                     | —  | Medical Department, Accra.                         |
| " Kumasi (Coomassie)       | 6 50 N.   | 2 16 W.    | 859                               | III                     | 1899   |  |
| " Kwitta (Keta)            | 5 59 N.   | 0 59 E.    | —                                 | III                     | 1895   |  |
| " Sekondi                  | 5 0 N.    | 1 40 W.    | 20                                | III                     | 1904   |  |
| " Sunyani                  | 7 22 N.   | 2 19 W.    | —                                 | III                     | 1908   |  |
| " Tainale                  | 9 23 N.   | 0 50 W.    | —                                 | III                     | 1908   |  |
| " Tarkwa                   | 5 11 N.   | 2 0 W.     | 245                               | III                     | 1907   |  |
| Northern Nigeria:—         |           |            |                                   |                         |  |  |
| Banchi                     | 10 17 N.  | 9 49 E.    | 2,300                             | III                     | 1907   |  |
| (Geidam) Dumjeri           | 12 53 N.  | 11 57 E.   | 1,900                             | III                     | 1907   |  |
| Ilorin                     | 8 29 N.   | 4 32 E.    | 968                               | III                     | 1907   |  |
| Kano                       | 12 0 N.   | 8 33 E.    | 2,000                             | III                     | 1907   | The Secretariat, Zungeru.                          |
| Katagum                    | 12 17 N.  | 10 22 E.   | 108                               | III                     | 1907   |  |
| Keffi                      | 8 50 N.   | 7 52 E.    | —                                 | III                     | 1907   |  |
| Kontagora                  | 10 24 N.  | 5 24 E.    | 1,300                             | III                     | 1907   |  |

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

|                                       |             |           |           |        |        |      |  |
|---------------------------------------|-------------|-----------|-----------|--------|--------|------|--|
| Lokoja ...                            | ... ... ... | 7 48 N.   | 6 44 E.   | 270    | III    | 1907 |  |
| Maifoni ...                           | ... ... ... | 11 48 N.  | 13 12 E.  | 1,200  | III    | 1907 |  |
| Sokoto ...                            | ... ... ... | 13 1 N.   | 5 14 E.   | 1,160  | III    | 1907 |  |
| Yola ...                              | ... ... ... | 9 12 N.   | 12 30 E.  | 850    | III    | 1907 |  |
| Zaria ...                             | ... ... ... | 11 6 N.   | 7 43 E.   | 2,230  | III    | 1907 |  |
| Zungeru ...                           | ... ... ... | 9 49 N.   | 6 10 E.   | 530    | III    | 1907 |  |
| Sierra Leone ...                      | ... ... ... | 8 30 N.   | 13 9 W.   | 179    | II     | 1895 | The Principal Medical Officer.                           |
| Southern Rhodesia :—                  |             |           |           |        |        |      |  |
| Ringstead Reef (Essexvale) ...        | ...         | 21 0 S.   | 29 0 E.   | 4,496  | •      | 1908 | Mrs. C. E. Fripp.  |
| <b>SOUTH AMERICA.</b>                 |             |           |           |        |        |      |  |
| British Guiana, Georgetown ...        | ... ...     | 6 49 N.   | 56 10 W.  | 0      | ○      | 1906 |  |
| " " Mazaruni (Penal Settlement).      |             | —         | —         | —      | ○      | 1908 | F. A. Stockdale, Government Botanist.                    |
| Venezuela, Guayanavièjá (El Perú) ... | ...         | 7½ 0 N.   | 62 0 W.   | 1,000? | II B Θ | 1910 | Dr. E. H. Griffen, for the Goldfields of Venezuela, Ltd. |
| <b>CHINA.</b>                         |             |           |           |        |        |      |  |
| Chinkiang ...                         | ... ... ... | 32 13 N.  | 119 27 E. | 40     | II ○   | 1905 | Capt. Lewis H. Tamplin.                                  |
| <b>NORTH ATLANTIC OCEAN.</b>          |             |           |           |        |        |      |  |
| Bermuda Dockyard ...                  | ... ... ... | 32 20 N.  | 64 51 N.  | 30     | —      | 1889 | Lieut. C. E. Stainer, R.N.                               |
| Bahamas, Nassau ...                   | ... ... ... | +25 2 N.  | 77 25 W.  | —      | III    | 1895 | R. W. D. Albury.   |
| " " Abaco ...                         | ... ... ... | 25 51 N.  | 77 11 W.  | 75     | II     | 1859 | G. C. Pinder   |
| " " Cay Lobos ...                     | ... ... ... | 22 22 N.  | 77 35 W.  | —      | II     | 1877 | S. W. Roberts  |
| " " Cay Sal ...                       | ... ... ... | 23 42 N.  | 80 25 W.  | 40     | II     | 1859 | J. A. Thompson   |
| " " Inagua ...                        | ... ... ... | 20 56 N.  | 73 41 W.  | 40     | II     | 1871 | E. J. Jones  |
| " " Watling's Island ...              | ... ... ... | 24 8 N.   | 74 26 W.  | 120    | II     | 1889 | J. S. Solomon  |
| Barbados ...                          | ... ... ... | +13 12 N. | 59 35 W.  | 181    | II     | 1895 | John R. Bovell, Superintendent Botanical Department.     |
| †Sombrero ...                         | ... ... ... | 18 36 N.  | 63 28 W.  | 34     | II     | 1867 | A. L. Richardson, Lightkeeper, for the Board of Trade.   |

\* Lighthouse; contributes register containing observations every 4 hours.

† The positions and heights of the stations are those given by the observers, except in cases marked †, for which the information given has been obtained from other sources.

‡ The Meteorological instruments in use at this Station are lent by the Meteorological Committee.

§ No observations received, Feb. 1902-June, 1909.

LIST OF STATIONS in the COLONIES, &c., from which RETURNS are received in MANUSCRIPT—*continued.*

| Station,                                | Latitude. | Longitude. | Height in<br>Feet above<br>M.S.L. | Order<br>of<br>Station. | Year of<br>Commence-<br>ment of<br>Observations. | Observer.   |
|---|-----------|------------|-----------------------------------|-------------------------|--|---|
| <b>SOUTH ATLANTIC OCEAN.</b>            |           |            |                                   |                         |  |   |
| Falkland Islands :—                     | °   "     | °   "      |                                   |                         |  |   |
| *Cape Pembroke ... ... ...              | 51 41 S.  | 57 42 W.   | 70                                | II                      | 1859   | J. Pearce, Lightkeeper, for the Board of Trade.   |
| †Stanley... ... ...                     | —         | —          | —                                 | ○ B                     | —  | His Excellency the Governor.  |
| ‡St. Helena: St. Matthew's Vicarage ... | 16 0 S.   | 5 40 W.    | 1,887                             | II                      | 1885   | A. L. C. Hands.   |
| " Central, Oak Bank ...                 | —         | —          | 1,696                             | ●                       | 1902   | J. Homagee.   |
| " St. Paul's Vicarage ...               | —         | —          | 1,694                             | ●                       | 1905   | Alfred Porter.  |
| South Georgia, Grytviken ...            | 54 14 S.  | 36 33 W.   | 10                                | II                      | 1906   | R. MacDougall, for the Argentine Fishery Company, transmitted by the Governor of the Falkland Islands through the Board of Trade. |
| <b>PACIFIC OCEAN.</b>                   |           |            |                                   |                         |  |   |
| British Solomon Islands :—              |           |            |                                   |                         |  |   |
| Tulagi ... ... ... ...                  | 9 5 S.    | 160 8 W.   | 163                               | III                     | 1907   | The Resident Commissioner.  |
| Fiji :—                                 |           |            |                                   |                         |  |   |
| Suva ... ... ... ...                    | 18 8 S.   | 178 0 E.   | 44                                | II                      | 1906   | C. H. Knowles, Superintendent Department of Agriculture.  |
| Fanning Island ... ... ... ...          | 3 54 S.   | 159 23 W.  | —                                 | III                     | 1903   | The Pacific Cable Board.  |
| Malden Island ... ... ... ...           | 3 59 S.   | 155 0 W.   | —                                 | II                      | —  | Geo. H. Crocker.  |
| ‡Ocean Island ... ... ... ...           | 0 52 S.   | 169 36 E.  | 159                               | II B.                   | 1905   | W. H. Knight, for the Pacific Phosphate Company.  |
| <b>INDIAN OCEAN.</b>                    |           |            |                                   |                         |  |   |
| Madagascar :—                           |           |            |                                   |                         |  |   |
| Antananarivo ... ... ... ...            | 18 55 S.  | 45 16 E.   | —                                 | ●                       | 1903   | T. P. Porter, H.B.M. Consul.  |
| Mauritius, Royal Alfred Observatory ... | 20 6 S.   | 57 31 E.   | 181                               | (I)                     | 1901   | T. F. Claxton, Director.  |

\* Lighthouse; contributes register containing observations every 4 hours.

† The Meteorological instruments in use at this Station are lent by the Meteorological Committee.

SIXTH ANNUAL REPORT

OF THE



METEOROLOGICAL COMMITTEE

TO THE

LORDS COMMISSIONERS OF HIS MAJESTY'S  
TREASURY.

For the Year ended 31st March, 1911  
(*the Fifty-sixth Year of the Meteorological Office*).

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Presented to Parliament by Command of His Majesty.

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Fig. 11 between pp 80 and 81.

REPORT OF THE METEOROLOGICAL COMMITTEE 1910-1911.

Map showing Positions of Climatological Stations.



Scale 1:5,000,000.

Ordnance Survey Southampton 1911.

The heights of the stations above Mean Sea Level are inserted against the positions, and will serve to identify the names of the stations as given in the List of Stations on pp.

In special circumstances the Director will give permission for information to be extracted by the custodian for the use of Local Authorities, provided—

- (1) That a note shall be appended to the information thus supplied to the effect that “The information is derived from instruments belonging to the Meteorological Office, and is subject to correction or modification”;
- (2) That if the information be published, the note shall also be published;
- (3) That a copy be kept of the information supplied, to be forwarded to the Meteorological Office if required.

If arrangement is made for the payment of the custodian for this service the Director must be informed.

In cases in which the extraction of provisional information is permitted, instructions for observing or tabulating will be given to the custodian, which must be strictly followed.

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## I.—OBSERVATORIES AND STATIONS IN CONNEXION WITH THE METEOROLOGICAL OFFICE.

---

### CENTRAL OBSERVATORY.

Kew Observatory, Old Deer Park, Richmond, Surrey.

*Superintendent : C. Chree, LL.D., Sc.D., F.R.S., Assistant Director of Observatories.*

Telegraphic Address : “ Weather, Richmond, Surrey.”

### MAGNETIC OBSERVATORY.

Eskdalemuir Observatory, Langholm.

*Superintendent : G. W. Walker, M.A.*

### WESTERN OBSERVATORY.

Valencia Observatory, Cahirciveen, Ireland.

*Superintendent : J. E. Cullum.*

Kew Observatory was built in 1769 as a private observatory and an astronomical and physical laboratory for King George III. The building was placed at the disposal of the British Association in 1842 and taken over by the Royal Society of London in 1871. The Observatory formed a department of the National Physical Laboratory from 1900 to 1910, and passed under the management of the Meteorological Office from July 1, 1910. Besides the work of a normal meteorological observatory (station of the first order of the international classification), the observatory undertakes experimental and research work in Meteorology, including Atmospheric Electricity, Terrestrial Magnetism, and Seismology.

Eskdalemuir Observatory was established by Government to continue the work of recording the magnetic elements which had

***Appendix II.—Supply of Information to the Public.***      79

been carried on at Kew Observatory and had been disturbed by electric tramways. It was opened in 1908. The work of the observatory includes routine work and experimental research in Terrestrial Magnetism, Atmospheric Electricity and Meteorology, as well as the maintenance of several Seismographs.

Valencia Observatory was established by the Meteorological Office in 1867 on Valencia Island. In 1891 it was transferred to Westwood House, Cahirciveen. Besides the work of a First Order Station and a Telegraphic Reporting Station, regular observations of magnetic force are made by arrangement with a committee organised by the late Earl of Rosse.

Other stations in connexion with the Office are shown in the list which follows on p. 82.

The returns from stations marked "S" are supplied by the Scottish Meteorological Society, those marked "M" by the Royal Meteorological Society. Stations marked respectively "S" or "M" are in connexion with the Societies as well as with the Office.

The list shows the order of classification of the stations and also the publication for which the returns are prepared in the Office. In specifying the order of the station a distinction has been drawn between eye observations and the records of autographic instruments. In general the returns received have formed the basis for the classification, but in cases in which more extensive observations are taken, but not forwarded to the Office, the corresponding symbol has been enclosed in brackets. The list makes no pretence to completeness in respect of these. The symbols used are explained as follows :—

- I. Normal Meteorological Observatory : Station of the First Order.—Continuous records or hourly readings of pressure, temperature, wind, sunshine, and rain, with eye observations of the amount, form, and motion of the clouds, and notes on the weather. The autographic records are checked by frequent eye observations, and hence the symbol "I" has been entered in the table under both "Eye observations" and "Autographic."
- II. Normal Climatological Station . Station of the Second Order.—Daily observations at 9 a.m. [3 p.m.] and 9 p.m. local time (or other accepted combinations of hours) of pressure, temperature (wet and dry-bulb), wind, amount of cloud, and weather, with the daily maximum and minimum of temperature, the daily rainfall, and remarks on the weather. Stations at which the additional observation at 3 p.m. is taken are distinguished by appending a suffix <sub>3</sub> to the symbol, thus—II<sub>3</sub>.
- III. Auxiliary Climatological Station : Station of the Third Order.—Observations similar in kind to those at the Normal Stations, but either (a) less full, (b) taken only once daily, (c) taken at hours other than 9 a.m. and 9 p.m.
- T. Telegraphic Reporting Station.—Daily observations at 7 a.m., 1 p.m., and 6 p.m. G.M.T., similar in general

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character to those taken at Normal Climatological Stations, reported to the Office each day by telegraph. At some telegraphic stations an additional observation is taken at 9 p.m., and as the combination of hours 7 a.m., 1 p.m., 9 p.m. is accepted as suitable for stations of the Second Order of the international classification, these stations are distinguished by the two symbols T II<sub>2</sub>.

- . (Eye Observations.) Additional Rainfall Station.—Daily observations, generally at 9 a.m., of the amount of rainfall.
- . Additional Anemograph Station.—Continuous records of wind velocity (force) and, in most cases, also of wind direction.
- B. Additional Barograph Station.—Continuous record of atmospheric pressure.
- e. Additional Thermograph Station.—Continuous record of atmospheric temperature.
- . (Autographic.) Additional Autographic Rain-gauge Station.—Continuous record of rainfall.
- H. Hygrograph Station.—Continuous record of the relative humidity of the air.
- . Sunshine Station.—Continuous record of bright sunshine taken with a Campbell-Stokes recorder.
- K. Kite or Balloon Station.—Records of Temperature, Humidity and Wind in the upper air.

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

- D. Published *in extenso* in the "Daily Weather Report."
- d. Published in abridged form in the "Daily Weather Report."
- W. Weekly summary of temperature and rainfall and, if available, of sunshine, published in the "Weekly Weather Report."
- w. Weekly summary of bright sunshine only, or of grass minimum, or earth temperatures, or of observations in the upper air, published in the "Weekly Weather Report."
- M. Full monthly summary in the international form published in the "Monthly Weather Report."
- m. Abridged monthly summary published in the "Monthly Weather Report."
- (m.) Monthly totals of bright sunshine only or of rainfall only, published in the "Monthly Weather Report."
- S. Daily values published in "Daily Readings at Stations of the First and Second Orders" (1911).
- R. Monthly summary published in the Reports of the Registrar General of Births, Deaths, and Marriages for England and Wales, or for Ireland.
- r. Weekly summary published in the Reports of the Registrar General for England and Wales, or for Ireland.
- . Daily summary of anemometer results certain of which are published in "Daily Readings at Stations of First and Second Orders" or in the "Geophysical Journal."

*Appendix II.—Supply of Information to the Public.*      81

**Height above Mean Sea Level.**—The figures given in this column refer in general to the height of the ground on which the rain-gauge stands. At those stations which do not possess a rain-gauge, the figures refer to the height of the particular instrument in use.

The positions of the climatological and rainfall stations may be identified on the map, Fig. 11, p. 80, from the figures which give their heights above Mean Sea Level, as shown in the following list.

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\*\*\* From a number of stations in the British Isles printed summaries of observations are received. These have been included in the Geographical list of Institutions, &c., which issue publications (Appendix VII. to the Annual Report of the Meteorological Committee).

The following make monthly returns in a form similar to that in which observations are received from the normal or auxiliary climatological stations :—

Bolton.—The Museums and Meteorological Observatory.

Croydon.—Natural History Society.

Northampton.—Natural History Society.

Truro.—Cornwall County Council Sanitary Committee.

## LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES.

The Counties are grouped in Districts which are numbered as follows :—

- |                     |  |  |  |  |
|---------------------|--|--|--|--|
| 0. Scotland, N.     | <i>{(a) Islands.<br/>(b) Mainland.}</i>            | 5. England, S.E.                           | 9. Ireland, N.                         | <i>{(a) Western Part.<br/>(b) Eastern Part.}</i> |
| 1. Scotland, E.     |  | London County.                             | 10. Ireland, S.                        | <i>{(a) Eastern Part.<br/>(b) Western Part.}</i> |
| 2. England, N.E.    | <i>{(a) Northern Part.<br/>(b) Southern Part.}</i> | 6. (a) Scotland, W., and (b) Isle of Man.  | 11. English Channel (Western Section). |  |
| 3. England, E.      | <i>{(a) Northern Part.<br/>(b) Southern Part.}</i> | 7. (a) England, N.W., and (b) North Wales. |  |  |
| 4. Midland Counties | <i>{(a) Eastern Part.<br/>(b) Western Part.}</i>   | 8. (a) South Wales and (b) England, S.W.   |  |  |

| County and Station          | Lat.                      | Long. | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |                   | Publication. | Year<br>of last<br>Inspection. | Observer.   |  |  |  |  |  |  |
|-----------------------------|---------------------------|-------|--------------------------------------|-------------------|-------------------|--------------|--------------------------------|---|--|--|--|--|--|--|
|                             |                           |       |                                      | Eye Obs.          | Autographic.      |              |                                |   |  |  |  |  |  |  |
| <b>0. SCOTLAND, NORTH.*</b> |                           |       |                                      |                   |                   |              |                                |   |  |  |  |  |  |  |
| (a.) <i>Islands.</i>        |                           |       |                                      |                   |                   |              |                                |   |  |  |  |  |  |  |
| Hebrides :—                 | Castlebay, Barra Isle ... | 56 57 | 7 29 W.                              | 38                | T II <sub>3</sub> | B ⊙          | D.W.M.                         | 10 J. Smith, for M.O.   |  |  |  |  |  |  |
|                             | Glendrynoch, Skye ...     | 57 18 | 6 17 W.                              | —                 | ●                 | —            | —                              | Rev. H. Harbord.  |  |  |  |  |  |  |
| Shetlands :—S.              | Stornoway ...             | 58 11 | 6 22 W.                              | 51                | T II <sub>3</sub> | B ⊙          | D.W.M.                         | 10 W. Grant, for M.O.   |  |  |  |  |  |  |
|                             | Balta sound ...           | 60 44 | 0 48 W.                              | 31                | III               | ○            | W.m.                           | 10 Edmonston Saxby, F.R.C.S., Ed.                                   |  |  |  |  |  |  |
|                             | Lerwick ...               | 60 9  | 1 8 W.                               | —                 | —                 | B            | —                              | G. Gray, Harbour Master.  |  |  |  |  |  |  |
|                             | Lerwick ...               | 60 9  | 1 8 W.                               | 54                | T II <sub>3</sub> | B            | D.W.M.                         | 11 Coastguard, for M.O.   |  |  |  |  |  |  |
| Orkney :—                   | Sumburgh Head ...         | 59 51 | 1 17 W.                              | 112               | T II <sub>3</sub> | B            | D.W.M.                         | 10 Rev. W. Brand, for M.O.  |  |  |  |  |  |  |
|                             | Deerness ...              | 58 56 | 2 45 W.                              | 160               | II                | ↙ ○          | w.M.S.                         | 10 M. Spence.   |  |  |  |  |  |  |
| (b.) <i>Mainland.</i>       |                           |       |                                      |                   |                   |              |                                |   |  |  |  |  |  |  |
| Caithness :—                | Sandside, Reay ...        | 58 34 | 3 48 W.                              | 55                | ●                 | —            | —                              | Nicol McNicol.  |  |  |  |  |  |  |
|                             | Wick ...                  | 58 27 | 3 6 W.                               | 81                | T II <sub>3</sub> | B            | D.W.M.                         | 11 Coastguard, for M.O.   |  |  |  |  |  |  |
| Cromarty :—                 | Strathpeffer Spa ...      | 57 37 | 4 28 W.                              | 200               | II                | ○            | W.M.d.                         | 08 N. McLean, for H. W. Kaye, B.A., M.B.                            |  |  |  |  |  |  |
| Inverness :—                | Fort Augustus ...         | 57 8  | 4 40 W.                              | 68                | II                | ○            | W.M.                           | 07 Rev. C. von Dieckhoff, O.S.B. and Rev. Ambrose Geoghegan, O.S.B. |  |  |  |  |  |  |

\* Note.—The parts of this district forming section (*a*) Islands, include the Shetlands, the Orkneys, and the Hebrides. The latter form part of the counties Inverness and Ross.

The names of Stations added to the list since April, 1910, are printed in clarendon type. The positions of the Stations can be identified on the map, Fig. 11, p. 80, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                   | Lat.   | Long.     | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer   |
|---------------------------------------|--------|-----------|--------------------------------------|-------------------|--------------|--------------|-------------------------------------|--|
|                                       |        |           |                                      | Eye Obs.          | Autographic. |              |                                     |  |
| <b>1. SCOTLAND, EAST—<i>cont.</i></b> |        |           |                                      |                   |              |              |                                     |  |
| Kincardine:— S. Crathes ...           | 57° 3' | 2° 25' W. | 140                                  | III               | ○ ⊕ B        | w.m.         | 08                                  | J. Smith.  |
| Stonehaven ...                        | 56 58  | 2 13 W.   | 786                                  | III               | ○            | d.m.         | 08                                  | J. Hart, for Town Clerk.                                   |
| Kinross:— No station.                 |        |           |                                      |                   |              |              |                                     |  |
| Linlithgow:— No station.              |        |           |                                      |                   |              |              |                                     |  |
| Nairn:— Nairn ...                     | 57 36  | 3 52 W.   | 82                                   | T                 | ○            | D.W.M.       | 10                                  | Miss Penny, for M.O. and Medical Officer of Health.        |
| Peebles:— S. West Linton ...          | 55 45  | 3 4 W.    | 800                                  | III               | ○            | W.m.         | 08                                  | Rev. J. S. Begg.   |
| Perth:— Crieff ...                    | 56 22  | 3 50 W.   | 440                                  | II                | —            | W.M.         | 10                                  | George Reid, for Dr. Meikle.                               |
| Forgandenny ...                       | 56 21  | 3 29 W.   | 175                                  | —                 | B ●          | —            | —                                   | Miss Frances Wood.   |
| Roxburgh:— No station.                |        |           |                                      |                   |              |              |                                     |  |
| Selkirk:— No station.                 |        |           |                                      |                   |              |              |                                     |  |
| <b>2. ENGLAND, NORTH EAST.</b>        |        |           |                                      |                   |              |              |                                     |  |
| (a) Northern Part.                    |        |           |                                      |                   |              |              |                                     |  |
| Durham:— Chopwellwood ...             | 54 55  | 1 47 W.   | 445                                  | III               | ○ ○          | m.           | —                                   | J. F. Annand.  |
| Durham ...                            | 54 46  | 1 35 W.   | 336                                  | II                | —            | W.M.R.       | 09                                  | Prof. R. A. Sampson, M.A., F.R.S., and F. O. H. Carpenter. |
| Northumberland:— Seaham Harbour ...   | 54 50  | 1 19 W.   | 139                                  | II                | —            | M.           | 10                                  | G. H. Aird.  |
| Alnwick Castle ...                    | 55 25  | 1 43 W.   | 210                                  | III               | —            | W.m.         | 10                                  | Robert Kyle, for the Duke of Northumberland, K.G.          |
| Cockle Park, Morpeth                  | 55 13  | 1 41 W.   | 324                                  | II                | ○            | w.M.S.R.     | 09                                  | T. E. W. Dobson, for the Northumberland County Council.    |
| Font Watershed, Dam Site.             | 55 14  | 1 54 W.   | 620                                  | ●                 | —            | —            | —                                   | H. G. Coventry, C.E., for the Corporation of Tynemouth.    |
| Heddon-on-the-Wall ...                | 55 0   | 1 47 W.   | 400                                  | ●                 | —            | —            | —                                   | Rev. W. G. Pringle.  |
| Newcastle-on-Tyne ...                 | 54 59  | 1 36 W.   | 152                                  | III               | — ⊕ B        | w.m.         | 10                                  | N. H. Martin, F.R.S.E., F.C.S.                             |
| North Shields ...                     | 55 0   | 1 27 W.   | 96                                   | T                 | —            | D.W.M.R.r.   | 10                                  | R. Moat, Post Office, for M.O.                             |

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|                                |                                      |       |         |     |     |       |          |    |  |   |
|--------------------------------|--------------------------------------|-------|---------|-----|-----|-------|----------|----|--|---|
|                                | <i>North Shields High Lighthouse</i> | 55 0  | 1 27 W. | —   | —   | —     | —        | —  | 10   | <i>The late Capt. T. Robson, for M.O.</i> |
| <i>Yorkshire, N. Riding :—</i> | Tynemouth ...                        | 55 1  | 1 26 W. | 90  | II, | ○     | d.       | 09 | J. Edward Burnett.   |   |
|                                | Ampleforth ...                       | 54 12 | 1 6 W.  | 349 | II  | —     | m.       | 09 | Rev. T. L. Barton, O.S.B., and Rev. R. C. Hesketh, O.S.B.    |   |
|                                | Hovingham Hall ...                   | 54 10 | 0 59 W. | 120 | ●   | —     | —        | —  | Bingley Day, for Sir W. H. A. Worsley, Bart.                 |   |
|                                | Rounton ...                          | 54 24 | 1 18 W. | 249 | II  | —     | W.M.     | 08 | J. Hanagan, for Sir Hugh Bell, Bart.                         |   |
|                                | M. Scarborough ...                   | 54 18 | 0 24 W. | 100 | II  | ○     | d.W.M.   | 10 | John Knight, M.D., D.P.H., for the Corporation.              |   |
|                                | Whitby ...                           | 54 29 | 0 37 W. | 88  | II  | ○     | M.       | 10 | Thos. Newbitt, for the Literary and Philosophical Society.   |   |
|                                | York, Deighton Grove ...             | 53 54 | 1 3 W.  | 38  | ●   | —     | —        | 05 | Miss M. L. Whitehead.  |   |
|                                | „ The Museum ...                     | 53 57 | 1 5 W.  | 56  | II  | —     | W.M.R.r. | 10 | Oxley Graham, M.A., for the Yorkshire Philosophical Society. |   |
|                                | „ Bootham ...                        | 53 57 | 1 5 W.  | 105 | —   | ○     | {        | 07 | Hugh Richardson, M.A.  |   |
| <i>Yorkshire, E. Riding :—</i> | Bridlington (Grammar School).        | 54 5  | 0 13 W. | 56  | III | (B) ○ | —        | 08 | A. Thornton, M.A.  |   |
|                                | Hull ...                             | 53 45 | 0 16 W. | 12  | II  | ○     | M.R.r.w. | 08 | H. B. Witty, for the Corporation.                            |   |
|                                | Spurn Head ...                       | 53 34 | 0 7 E.  | 26  | T   | B     | D.W.M.R. | 10 | R. I. Comber, for M.O.                                       |   |
| <i>(b) Southern Part.</i>      |                                      |       |         |     |     |       |          |    |  |   |
| <i>Lincolnshire :—</i>         | Claypole ...                         | 53 2  | 0 46 W. | 70  | ●   | —     | —        | —  | Rev. F. Hamilton.  |   |
|                                | Fulbeck ...                          | 53 3  | 0 37 W. | 180 | III | B ○   | W.m.     | 10 | Rev. Vere F. Willson, M.A.                                   |   |
|                                | Lincoln ...                          | 53 14 | 0 33 W. | 58  | III | —     | W.m.R.   | 09 | W. Barr, for the Corporation.                                |   |
|                                | Mareham-le-Fen ...                   | 53 8  | 0 5 W.  | 10  | ●   | —     | —        | 01 | Mrs. G. L. Kime.   |   |
|                                | Rauceby Hall ...                     | 53 0  | 0 29 W. | 124 | III | ○     | w.m.     | 09 | J. Hope, for General Sir M. Willson, K.C.B.                  |   |
|                                | Skegness ...                         | 53 9  | 0 21 E. | 12  | III | ○     | d.w.M.   | 10 | S. Coetmore Jones, for the District Council.                 |   |
|                                | Tealby ...                           | 53 24 | 0 16 W. | 251 | II  | —     | m.       | 09 | Rev. S. Lewin, B.A.  |   |
|                                | Temple Bruer ...                     | 53 4  | 0 30 W. | —   | ●   | —     | —        | 03 | Miss Alice S. Morley.  |   |

The names of Stations added to the list since April, 1910, are printed in clarendon type. The positions of the Stations can be identified on the map, Fig. 11, p. 80, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.      | Lat.                  | Long.     | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |                    | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer.  |  |  |  |  |  |  |
|--------------------------|-----------------------|-----------|--------------------------------------|-------------------|--------------------|--------------|-------------------------------------|--|--|--|--|--|--|--|
|                          |                       |           |                                      | Eye Obs.          | Autographic.       |              |                                     |  |  |  |  |  |  |  |
| <b>3. ENGLAND, EAST.</b> |                       |           |                                      |                   |                    |              |                                     |  |  |  |  |  |  |  |
| (a) Northern Part.       |                       |           |                                      |                   |                    |              |                                     |  |  |  |  |  |  |  |
| Norfolk :—               | Cromer ...            | ... 52 56 | 1 17 E.                              | 196               | II                 | ○            | W.M.R.                              | 10 W. H. Archer, for Urban District Council.                 |  |  |  |  |  |  |
|                          | Geldeston             | ... 52 28 | 1 31 E.                              | 37                | II                 | ○ (B θ)      | W.M.                                | 09 E. T. Dowson.   |  |  |  |  |  |  |
|                          | Hillington            | ... 52 48 | 0 33 E.                              | 88                | II                 | ○            | W.M.R.                              | 08 Rev. H. E. B. Ffolkes, M.A.                               |  |  |  |  |  |  |
|                          | M. Norwich            | ... 52 37 | 1 17 E.                              | 93                | III                | —            | W.R.r.m.                            | 08 A. W. Preston.  |  |  |  |  |  |  |
|                          | Thetford              | ... 52 25 | 0 45 E.                              | 169               | ●                  | —            | —                                   | E. S. Greenwood, for Town Council.                           |  |  |  |  |  |  |
|                          | Yarmouth              | ... 52 37 | 1 43 E.                              | 17                | T, II <sub>3</sub> | B            | D.W.M.                              | 10 } Coastguard, for M.O. and for Corporation.               |  |  |  |  |  |  |
|                          | " Gorleston           | ... 52 35 | 1 43 E.                              | 10†               | —                  | —            | —                                   | 10 }   |  |  |  |  |  |  |
| (b) Southern Part.       |                       |           |                                      |                   |                    |              |                                     |  |  |  |  |  |  |  |
| Bedford :—               | Aspley Guise ...      | ... 52 1  | 0 38 W.                              | 410               | —                  | ○            | m.                                  | — Mrs. Dymond.   |  |  |  |  |  |  |
|                          | Woburn, Ridgmont      | ... 52 1  | 0 36 W.                              | 291               | II                 | —            | M.                                  | 08 H. M. Freear, F.C.S., for the Royal Agricultural Society. |  |  |  |  |  |  |
| Cambridge :—             | Cambridge Bot. Garden | 52 12     | 0 8 E.                               | 41                | II                 | ○            | W.M.S.R.                            | 10 R. Irwin Lynch, M.A.                                      |  |  |  |  |  |  |
|                          | " The Observatory.    | 52 13     | 0 6 E.                               | 83                | —                  | B            | —                                   | 05 A. R. Hinks, M.A., for Sir Robert Ball, F.R.S.            |  |  |  |  |  |  |
|                          | " Newnham Coll.       | 52 13     | 0 5 E.                               | —                 | III                | H            | —                                   | 10 Miss Stephen.   |  |  |  |  |  |  |
| Essex :—                 | Clacton-on-Sea ...    | ... 51 47 | 1 9 E.                               | 54                | T, II <sub>3</sub> | ○ B          | D.W.M.R.                            | 10 A. W. Shadick, for Urban District Council.                |  |  |  |  |  |  |
|                          | Shoebury Ness         | ... 51 32 | 0 47 E.                              | 13*               | III                | —            | W.m.                                | 09 The Superintendent of Experiments.                        |  |  |  |  |  |  |
|                          | Southend-on-Sea       | ... 51 32 | 0 43 E.                              | 90                | III                | ○            | w.m.                                | 10 E. J. Elford, for the Corporation.                        |  |  |  |  |  |  |
|                          | Waterworks            | 51 32     | 0 43 E.                              | 110               | ● (8)              | —            | —                                   | 10 E. C. Bilham.   |  |  |  |  |  |  |
|                          | Stifford              | ... 51 30 | 0 18 E.                              | 73                | ●                  | —            | —                                   | — Miss A. L. Scott.  |  |  |  |  |  |  |
| Hertford :—              | Bennington            | ... 51 54 | 0 6 W.                               | 406               | II                 | —            | M.R.                                | 09 Rev. J. Dunne Parker, LL.D.                               |  |  |  |  |  |  |
|                          | Berkhamsted           | ... 51 46 | 0 34 W.                              | 400               | II                 | ○ (I)        | M.R.                                | 09 E. Mawley.  |  |  |  |  |  |  |
|                          | Offley Vicarage       | ... 51 56 | 0 21 W.                              | 523               | ●                  | —            | —                                   | Rev. E. P. Gatty.  |  |  |  |  |  |  |

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|                             |                     |     |     |       |         |     |                    |         |          |    |   |
|-----------------------------|---------------------|-----|-----|-------|---------|-----|--------------------|---------|----------|----|---|
|                             | Rothamsted          | ... | ... | 51 48 | 0 22 W. | 424 | III                | ○       | W.m.     | 09 | A. D. Hall, M.A., for the Lawes Agricultural Trust.                       |
| Huntingdon :—               | No station.         |     |     |       |         |     |                    |         |          | —  | G. Eland.   |
| Middlesex :—                | Harefield           | ... | ... | 51 36 | 0 29 W. | 337 | ●                  | —       |          | —  | Lt.-Col. B. Spragge, D.S.O.   |
| Suffolk :—                  | Brandon             | ... | ... | 52 27 | 0 37 E. | 48? | ●                  | —       | d.W.m.   | 10 | F. B. Jennings, for the District Council.                                 |
|                             | Felixstowe          | ... | ... | 51 58 | 1 22 E. | 10  | III                | ○       | w.d.M.   | 08 | C. W. Edwards, for the Corporation.                                       |
|                             | Lowestoft           | ... | ... | 52 29 | 1 45 E. | 83  | II                 | ○       |          |    |   |
| <b>4. MIDLAND COUNTIES.</b> |                     |     |     |       |         |     |                    |         |          |    |   |
| (a) <i>Eastern Part.</i>    |                     |     |     |       |         |     |                    |         |          |    |   |
| Buckingham :—               | Beaconsfield        | ... | ... | 51 36 | 0 38 W. | 360 | ●                  | —       | —        | —  | C. T. Marcon, M.A.  |
|                             | High Wycombe        | ... | ... | 51 37 | 0 45 W. | 379 | III                | —       |          |    | R. O. Matthews.   |
|                             | Winslow             | ... | ... | 51 57 | 0 53 W. | 379 | III                | —       | m.       | 10 | R. A. Easton.   |
| Derby :—                    | Belper              | ... | ... | 53 1  | 1 29 W. | 222 | III                | —       | m.       |    | W. W. Tunnicliffe, B.Sc., F.C.S.  |
|                             | M. Buxton           | ... | ... | 53 16 | 1 55 W. | 987 | II <sub>2</sub>    | ○ (B)   | d.W.M.R. | 08 | W. Pilkington, and F. T. Kieldsen.  |
|                             | Chatsworth          | ... | ... | 53 14 | 1 37 W. | —   | III                | B 0     | —        | 02 | J. P. Cockerell, for The Duke of Devonshire, K.G.                         |
|                             | Derby               | ... | ... | —     | —       | —   |                    |         |          |    | John Stretton.  |
| Leicester :—                | Belvoir Castle      | ... | ... | 52 54 | 0 47 W. | 208 | II                 | —       | R.M.     | 09 | W. H. Divers, for the Duke of Rutland, K.G.                               |
|                             | Syston              | ... | ... | 52 43 | 1 5 W.  | 178 | ●                  | ○       |          | 96 | S. K. Daniels.  |
| Northampton :—              | Great Billing       | ... | ... | 52 16 | 0 50 W. | 273 | ●                  | —       | —        | —  | Rev. G. H. Mullins, M.A.  |
|                             | Oundle (The School) | ... | ... | 52 29 | 0 28 W. | 144 | III                | ○       | —        | 04 | F. H. E. Martin and Percy Evans, for F. W. Sanderson, M.A., Headmaster.   |
|                             | "                   | ... | ... | 52 29 | 0 28 W. | 146 | ●                  | —       | W.m.     | 04 | N. E. Dixon, C.E.   |
| Nottingham :—               | Raunds              | ... | ... | 52 22 | 0 33 W. | 205 | III                | —       |          | 08 | Leon G. H. Lee.   |
|                             | Bawtry, Hesley Hall | ... | ... | 53 27 | 1 4 W.  | 65  | III                | —       | W.m.     | 09 | B. I. Whitaker, J.P.  |
|                             | Kingston-on-Sor     | ... | ... | 52 51 | 1 14 W. | 126 | III                | —       | m.       | 08 | Fred Wakerly.   |
|                             | Nottingham          | ... | ... | 52 56 | 1 9 W.  | 82  | T, II <sub>3</sub> | ○ (B ●) | D.W.M.R. | 09 | Arthur Brown, M.Inst.C.E., and Philip Boobyer, M.D., for the Corporation. |
|                             | Worksop (Hodsock)   | ... | ... | 53 22 | 1 5 W.  | 56  | III                | ○ (B ●) | w.m.     | 08 | Lt.-Col. H. Mellish, J.P.   |

The names of Stations added to the list since April, 1910, are printed in clarendon type. The positions of the Stations can be identified on the map, Fig. 11, p. 80, from the figures which give their heights above Mean Sea Level.  
 \* Head of Anemometer 103 ft. above M.S.L.      † Head of Anemometer 52 ft. above M.S.L.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station                          | Lat.    | Long.     | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspection. | Observer.   |  |  |  |  |  |  |
|---|---------|-----------|--------------------------------------|-------------------|--------------|--------------|--------------------------------|---|--|--|--|--|--|--|
|   |         |           |                                      | Eye Obs.          | Autographic. |              |                                |   |  |  |  |  |  |  |
| <b>4. MIDLAND COUNTIES—<i>cont.</i></b>     |         |           |                                      |                   |              |              |                                |   |  |  |  |  |  |  |
| (a) <i>Eastern Part</i> — <i>cont.</i>      |         |           |                                      |                   |              |              |                                |   |  |  |  |  |  |  |
| Oxford :— Oxford ... ...                    | 51° 46' | 1° 16' W. | 208                                  | [I] T             | ◎ [I]        | D.W.M.R.     | 10                             | Dr. A. A. Rambaut, M.A., F.R.S.;<br>W. Wickham, for M.O.    |  |  |  |  |  |  |
| Rutland :— Pyrton Hill ... ...              | 51° 38' | 1° 1 W.   | 500                                  | —                 | K B          | w.           | —                              | W. H. Dines, F.R.S., for M.O.                               |  |  |  |  |  |  |
| Ridlington ... ...                          | 52° 37' | 0° 45' W. | 522                                  | ●                 | —            | —            | —                              | N. W. Wortley.  |  |  |  |  |  |  |
| Uppingham ... ...                           | 52° 38' | 0° 43' W. | 469                                  | III               | —            | —            | —                              | E. Hunter.  |  |  |  |  |  |  |
| Warwick :— Coventry ... ...                 | 52° 25' | 1° 30' W. | 270                                  | III               | ○            | R.m.         | 10                             | E. Hugh Snell, M.D., for the Corporation.                   |  |  |  |  |  |  |
| Rugby School ... ...                        | 52° 22' | 1° 15' W. | 379                                  | II                | (B)          | m.           | 08                             | Rev. D. E. Shorto, M.A.                                     |  |  |  |  |  |  |
| Birmingham, Edgbaston ...                   | 52° 28' | 1° 56' W. | 535                                  | II                | ○            | d.W.M.R.r.   | 10                             | Alfred Cresswell, for the Midland Institute.                |  |  |  |  |  |  |
| „ Hagley Road                               | 52° 28' | 1° 58' W. | 612                                  | ●                 | —            | —            | —                              | Henry E. Stilgoe, M. Inst., C.E.                            |  |  |  |  |  |  |
| Yorkshire,<br>W. Riding :— Bradford ... ... | 53° 49' | 1° 46' W. | 439                                  | III               | ○            | m.r.         | 09                             | H. Lander for the Corporation.                              |  |  |  |  |  |  |
| Garforth ... ...                            | 53° 48' | 1° 22' W. | 195                                  | II                | ○            | M.           | 09                             | Prof. Seton, B.Sc., for the University of Leeds.            |  |  |  |  |  |  |
| Giggleswick ... ...                         | 54° 4'  | 2° 17' W. | 500?                                 | III               | (B) ○        | —            | 05                             | C. F. Mott, M.A.  |  |  |  |  |  |  |
| M. Harrogate ... ...                        | 54° 0'  | 1° 33' W. | 476                                  | III               | ○            | d.W.m.       | 08                             | C. E. Rivers, for the Corporation.                          |  |  |  |  |  |  |
| Huddersfield ... ...                        | 53° 39' | 1° 47' W. | 409                                  | II,               | ○ (●)        | M.R.r.       | 09                             | J. Firth, Registrar, for the Corporation.                   |  |  |  |  |  |  |
| Leeds ... ...                               | 53° 48' | 1° 33' W. | 132                                  | III               | (B)          | —            | 08                             | H. Crowther, for the Leeds Philosophical Society.           |  |  |  |  |  |  |
| Sheffield ... ...                           | 53° 23' | 1° 29' W. | 429                                  | II                | ○            | w.M.R.       | 08                             | E. Howarth, F.R.A.S.  |  |  |  |  |  |  |
| Wakefield ... ...                           | 53° 41' | 1° 30' W. | 96                                   | II                | —            | M.R.         | 08                             | Alex. French, M.R.C.S., L.R.C.P.                            |  |  |  |  |  |  |
| (b) <i>Western Part.</i>                    |         |           |                                      |                   |              |              |                                |   |  |  |  |  |  |  |
| Gloucester :— Cheltenham ... ...            | 51° 54' | 2° 3' W.  | 214                                  | II                | ○            | M.R.         | 09                             | A. C. Saxby, for the Corporation.                           |  |  |  |  |  |  |
| Cirencester ... ...                         | 51° 43' | 1° 57' W. | 446                                  | III               | ○            | W.m.         | 08                             | Prof. M. Kershaw, B.A., for the Royal Agricultural College. |  |  |  |  |  |  |
| Dursley ... ...                             | 51° 41' | 2° 21' W. | 256                                  | ●                 | —            | —            | 96                             | E. Fryer Smith.   |  |  |  |  |  |  |

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

|                                |                                    |     |       |         |     |     |          |    |   |
|--------------------------------|------------------------------------|-----|-------|---------|-----|-----|----------|----|---|
| <b>Forest of Dean :—</b>       | Blakeney Hill                      | ... | 51 46 | 2 30 W. | 500 | ●   | —        | —  | John Tyler  |
|                                | Braceland                          | ... | 51 49 | 2 38 W. | 500 | ●   | —        | —  | E. P. Popert  |
|                                | Edgehills Lodge                    | ... | 51 51 | 2 29 W. | 700 | ●   | —        | —  | Campbell Anderson                                       |
|                                | Ruardean Hill                      | ... | 51 50 | 2 32 W. | 900 | ●   | —        | 05 | for V. F.<br>Leese.                                     |
|                                | Whitemead Park                     | ... | 51 46 | 2 34 W. | 200 | ●   | —        | —  | John Morris   |
|                                | Worcester Lodge                    | ... | 51 48 | 2 35 W. | 700 | ●   | —        | 05 | William Morris  |
| <b>Hereford :—</b>             | Hidcote                            | ... | 52 5  | 1 46 W. | 524 | ●   | —        | —  | William Morris  |
|                                | Bromyard                           | ... | 52 11 | 2 30 W. | 392 | II  | —        | 97 | Major W. Wright, R.A.                                   |
| <b>Shropshire :—</b>           | Hereford (Belmont)                 | ... | 52 5  | 2 45 W. | 291 | III | —        | 10 | T. V. Philpott, M.A.                                    |
|                                | Shrewsbury                         | ... | 52 43 | 2 45 W. | 191 | II  | —        | 09 | Canon T. B. Harrington, O.S.B.                          |
|                                | Stokesay                           | ... | 52 26 | 2 52 W. | 370 | II  | —        | 09 | Capt. C. S. Reid, R.E.                                  |
| <b>Somerset :—</b>             | Wistanstow                         | ... | 52 28 | 2 50 W. | 484 | II  | —        | —  | Rev. W. M. D. La Touche, B.A.                           |
|                                | Bath                               | ... | 51 23 | 2 21 W. | 66  | T   | B (B) ○  | 09 | Rev. W. M. D. La Touche, B.A.                           |
| <b>Stafford :—</b>             | Cheadle (Tean)                     | ... | 52 58 | 1 57 W. | 646 | III | —        | 08 | W. H. Symons, M.D., for the<br>Corporation.             |
|                                | Mayfield                           | ... | 53 0  | 1 46 W. | 374 | III | (B (B) ○ | 09 | Col. B. H. Philips.                                     |
| <b>Worcester :—</b>            | Birmingham, Sparkhill              | ... | 52 27 | 1 52 W. | 424 | III | —        | —  | G. C. Lawson.   |
|                                | Rochford                           | ... | 52 18 | 2 36 W. | 315 | ●   | B        | 10 | D. H. Owen.   |
| <b>5. ENGLAND, SOUTH-EAST.</b> |                                    |     |       |         |     |     |          |    |   |
| <b>Berkshire :—</b>            | Bucklebury Place                   | ..  | 51 26 | 1 24 W. | 409 | III | —        | 08 | J. W. Harris, for A. W. Sutton.                         |
|                                | Maidenhead                         | ... | 51 30 | 0 43 W. | 101 | III | —        | 10 | G. H. Palmer.   |
|                                | Reading (Leighton Park<br>School). | ... | 51 26 | 0 57 W. | 264 | II  | B ○      | 10 | C. I. Evans, Headmaster.                                |
|                                | Wokingham                          | ... | 51 23 | 0 48 W. | 216 | III | B        | 10 | Medical Superintendent of Sana-<br>torium.              |
| <b>Hampshire :—</b>            | Basingstoke                        | ... | 51 16 | 1 6 W.  | 289 | III | —        | 10 | A. M. Pitkin, F.R.G.S.                                  |
|                                | Bournemouth                        | ... | 50 43 | 1 53 W. | 145 | III | ○        | 08 | C. Dales, for Town Council.                             |
|                                | Petersfield (Ditcham<br>Park).     | ... | 51 0  | 0 57 W. | 550 | —   | K        | —  | C. J. P. Cave, M.A.                                     |
|                                | M. Portsmouth                      | ... | 50 48 | 1 6 W.  | 11  | III | —        | 10 | A. Mearns Fraser, M.D., for the<br>Corporation.         |
|                                | M. Sandown                         | ... | 50 48 | 1 8 W.  | 20  | III | ○ (B)    | —  | G. E. Gilchrist, for the Sandown<br>Advancement Board.  |
|                                | Southampton                        | ... | 50 55 | 1 24 W. | 65  | II  | ○        | 09 | A. Vaughan, for Director-General<br>of Ordnance Survey. |

The names of Stations added to the list since April, 1910, are printed in clarendon type. The positions of the Stations can be identified on the map, Fig. 11, p. 80, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                        | Lat.                    | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspec-<br>tion | Observer.   |
|--|-------------------------|---------|--------------------------------------|-------------------|--------------|--------------|------------------------------------|---|
|  |                         |         |                                      | Eye Obs.          | Autographic. |              |                                    |   |
| <b>5. ENGLAND, SOUTH-EAST—<i>cont.</i></b> |                         |         |                                      |                   |              |              |                                    |   |
| Hampshire— <i>cont.</i>                    | 50 47                   | 1 6 W.  | —                                    | —                 | ○            | d.           | 10                                 | A. Mearns Fraser, M.D., for the Corporation of Portsmouth.          |
| Southsea ...                               | 50 47                   | 1 6 W.  | —                                    | —                 | ●            | —            | —                                  | Legh S. Powell.   |
| Stockbridge(Ashley)                        | 51 5                    | 1 27 W. | 235                                  | III               | B            | W.m.         | 09                                 | Rev. W. L. W. Eyre, M.A.  |
| Swarraton ...                              | 51 8                    | 1 11 W. | 310                                  | III               | ○            | m.           | 10                                 | J. Dover, M.A.  |
| Totland Bay ...                            | 50 41                   | 1 33 W. | 140                                  | III               | ○ ○          | W.m.R.       | 06                                 | Miss M. Gibson, for Royal National Hospital for Consumption.        |
| M. Ventnor ...                             | 50 36                   | 1 13 W. | 80                                   | III               | ○            | (m.)         | —                                  | Howard Hurd, C.E., and Rev. H. C. V. Snowden, for District Council. |
| Kent:—                                     | Broadstairs ...         | 51 21   | 1 26 E.                              | 140               | ●            | w.           | 05                                 | A. Lander.  |
|  | Canterbury ...          | 51 17   | 1 5 E.                               | 39                | III          | d.           | 10                                 | S. Miller.  |
|  | Deal ...                | 51 13   | 1 24 E.                              | 23                | III          | —            | 96                                 | W. C. Hawke, C.E., for the Corporation of Dover.                    |
|  | Dover ...               | 51 7    | 1 18 E.                              | 198               | ●            | D.M. ↗       | 10                                 |   |
|  | Dover ...               | 51 7    | 1 19 E.                              | 231               | T            | —            | —                                  |   |
|  | Kearsney, Chilton Farm. | 51 8    | 1 17 E.                              | 125               | ●            | ○   ↗        | —                                  |   |
|  | Dungeness ...           | 50 55   | 0 58 E.                              | 21                | T            | D.W.M.       | 10                                 | W. S. Wilder, Lightkeeper, for M.O.                                 |
|  | Folkestone ...          | 51 5    | 1 11 E.                              | 121               | III          | d.m.         | 08                                 | J. W. Stainer, for the Corporation.                                 |
|  | Hildenborough ...       | 51 13   | 0 15 E.                              | 160               | ●            | —            | —                                  | Charles H. Scott.   |
|  | Littlestone-on-Sea      | 50 59   | 0 59 E.                              | —                 | —            | d.w.(m.)     | 05                                 | H. T. Tubbs.  |
| M.   | Margate ...             | 51 24   | 1 24 E.                              | 35                | III          | d.w.m.       | 08                                 | J. Stokes, J.P., for the Corporation.                               |
|  | Matfield ...            | 51 9    | 0 22 E.                              | 319               | III          | m.           | 10                                 | D'Arcy Reeve.   |
|  | Ramsgate ...            | 51 20   | 1 25 E.                              | —                 | —            | d.w.(m.)     | 08                                 | T. G. Taylor, C.E., for the Corporation.                            |
|  | Sandgate ...            | 51 4    | 1 9 E.                               | 50                | ●            | —            | 99                                 | Chas. J. Conquest.  |
|  | Sandwich ...            | 51 17   | 1 20 E.                              | 6                 | ●            | —            | 03                                 | Royal St. George's Golf Club.                                       |
|  | Sevenoaks ...           | 51 16   | 0 12 E.                              | 509               | III          | m.           | —                                  | W. Tattersall.  |
|  | Tankerton ...           | 51 22   | 0 2 E.                               | 72                | ●            | —            | —                                  | F. Gaster.  |
|  | Tonbridge ...           | 51 12   | 0 17 E.                              | 319               | ●            | —            | —                                  | J. Waley Cohen.   |
|  | Tunbridge Wells ...     | 51 8    | 0 16 E.                              | 421               | III          | W.m.         | 09                                 | F. G. Smart, M.B.   |

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

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|           |                    |       |         |     |     |     |            |    |  |
|-----------|--------------------|-------|---------|-----|-----|-----|------------|----|--|
| Surrey :— | Byfleet ...        | 51 20 | 0 29 W. | 65  | ●   | —   | —          | —  | R. W. Pretor-Pinney.                                     |
|           | Epsom ...          | 51 20 | 0 17 W. | 160 | ●   | (B) | —          | —  | S. C. Russell.   |
|           | Newdigate ...      | 51 0  | 0 17 W. | 259 | ●   | (B) | —          | —  | R. J. Wallis.  |
|           | Send ...           | 51 15 | 0 32 W. | 99  | ●   | —   | —          | —  | J. W. G. Bond.   |
|           | Warlingham ...     | 51 18 | 0 3 W.  | 609 | ●   | —   | —          | —  | R. H. Curtis.  |
|           | Wisley ...         | 51 17 | 0 26 W. | 150 | III | —   | W.m.       | 09 | The Superintendent, for the Royal Horticultural Society. |
| Sussex :— | Bexhill-on-Sea ... | 50 50 | 0 33 E. | 27  | II  | ○   | d.m.       | 08 | G. Brisley, M.P.S., for the Corporation.                 |
|           | M. Bognor ...      | 50 47 | 0 40 W. | 20  | III | ○   | d.w.m.     | 10 | H. Gardner, for the Bognor Climatological Society.       |
|           | M. Brighton ...    | 50 49 | 0 8 W.  | 31  | III | —   | d.w.m.R.r. | 09 | H. Heasman, for the Medical Officer of Health.           |
|           | Brighton ...       | 50 49 | 0 8 W.  | 380 | —   | K   | w.         | —  | S. H. R. Salmon.   |
|           | Cuckfield ...      | 51 1  | 0 9 W.  | 389 | ●   | —   | d.w.M.R.   | 97 | E. Gosden.   |
|           | Eastbourne ...     | 50 46 | 0 17 E. | 39  | II  | ○   | —          | 08 | S. R. Henderson, for the Medical Officer of Health.      |
|           | Hastings Cemetery  | 50 52 | 0 34 E. | 499 | ●   | —   | d.w.(m.)   | 06 | Walter Field.  |
|           | „ Waterworks       | 50 51 | 0 34 E. | 270 | —   | —   | —          | —  | J. Farnham, for the Corporation.                         |
|           | Heathfield ...     | 50 58 | 0 16 E. | 499 | ●   | —   | m.         | —  | J. F. Leigh Clare.                                       |
|           | Hove ...           | 50 47 | 0 10 W. | —   | —   | —   | —          | —  | A. Griffith, M.O.H., for the Corporation.                |
|           | St. Leonards ...   | 50 51 | 0 33 E. | 178 | II  | —   | W.M.       | 08 | H. Colborne, M.R.C.S., for the Corporation.              |
|           | „ West Marina      | 50 51 | 0 32 E. | 207 | III | —   | —          | 06 | T. Eldridge, for the Corporation.                        |
|           | Seaford ...        | 50 46 | 0 6 E.  | 30  | III | —   | d.         | 09 | Col. F. W. Savage, V.D.                                  |
|           | Watergate Park ... | 50 56 | 0 55 W. | 239 | ●   | —   | —          | 99 | W. M. Christy.   |
|           | Westbourne ...     | 50 52 | 0 55 W. | 30  | —   | —   | (m.)       | 07 | Rev. L. B. Birkett.                                      |
|           | M. Worthing ...    | 50 49 | 0 22 W. | 36  | III | ○   | d.w.m.     | 08 | R. H. W. Wilshaw, M.B., D.P.H., for the Corporation.     |
| Wilts :—  | M. Marlborough ... | 51 25 | 1 44 W. | 424 | III | ○   | W.m.       | 08 | G. G. Becker, M.A., and Meddows Taylor.                  |
|           | Salisbury (Wilton) | 51 4  | 1 51 W. | 180 | II  | —   | M. R.      | 10 | Thos. Challis, for the Earl of Pembroke, G.C.V.O.        |
|           | Salisbury ...      | 51 5  | 1 50 W. | 165 | II  | —   | —          | 10 | Capt. H. Tudor Williams.                                 |

The names of Stations added to the list since April, 1910, are printed in clarendon type. The positions of the Stations can be identified on the map, Fig. II, p. 80, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station,     | Lat.  | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station.      |              | Publication. | Year<br>of last<br>Inspection. | Observer.  |
|-------------------------|-------|---------|--------------------------------------|------------------------|--------------|--------------|--------------------------------|--|
|                         |       |         |                                      | Eye Obs.               | Autographic. |              |                                |  |
| <b>LONDON DISTRICT.</b> |       |         |                                      |                        |              |              |                                |  |
| Barnet ... ...          | 51 39 | 0 10 W. | 211                                  | III                    | —            | —            | 06                             | F. J. Bancroft, B.Sc., M.I.A.C.E., M.I.M.E.  |
| Camberwell—             |       |         |                                      |                        |              |              |                                |  |
| The Green ...           | 51 28 | 0 5 W.  | 17                                   | —                      | ●            | —            | 03                             |  |
| Forest Hill ...         | 51 26 | 0 4 W.  | 160                                  | —                      | ●            | —            | 03                             |  |
| Leyton Square ...       | 51 29 | 0 4 W.  | 14                                   | —                      | ●            | —            | 03                             |  |
| Peckham Rd. ...         | 51 28 | 0 5 W.  | 21                                   | —                      | ●            | —            | 03                             |  |
| Camden Square ...       | 51 33 | 0 8 W.  | 110                                  | II                     | ◎ (B ●)      | M.R.d.       | —                              | H. Robert Mill, D.Sc., LL.D.   |
| Chelsea ... ...         | 51 29 | 0 10 W. | 24                                   | ●                      | —            | —            | —                              | T. W. E. Higgens, C.E., for the Chelsea Borough Council.                                   |
| City (Bunhill Row) ...  | 51 31 | 0 5 W.  | 80                                   | —                      | ○            | w.(m.)d.     | —                              | Messrs. De la Rue.   |
| East Ham ... ...        | 51 32 | 0 3 E.  | 12                                   | III                    | —            | —            | —                              | J. Banks, for the Corporation.   |
| Eltham ... ...          | 51 28 | 0 4 E.  | 209                                  | III                    | —            | m.           | —                              | Miss A. Bramwell, B.Sc.  |
| Greenwich ... ...       | 51 28 | 0 0     | 155                                  | I                      | (I)          | W.M.R.r.d.   | —                              | The Astronomer Royal.  |
| Hampstead ... ...       | 51 33 | 0 11 W. | 450                                  | II                     | ○            | M.R.d.       | 09                             | E. L. Hawke, for the Hampstead Scientific Society.   |
| Isleworth ... ...       | 51 29 | 0 20 W. | 24                                   | III                    | —            | —            | —                              | A. Worsley.  |
| Kensal Green ... ...    | 51 32 | 0 13 W. | 100                                  | ●                      | —            | —            | —                              | C. W. Heinemann.   |
| Kew ... ...             | 51 28 | 0 19 W. | 18                                   | I, T                   | I            | W.M.R.       | —                              | C. Chree, Sc.D., F.R.S., Superintendent of the Observatory, for the Meteorological Office. |
| Pall Mall ... ...       | 51 30 | 0 7 W.  | —                                    | —                      | B            | —            | —                              | Athenæum Club.   |
| Norwood ... ...         | 51 26 | 0 6 W.  | 220                                  | II                     | —            | M.R.         | 09                             | W. Marriott.   |
| Plumstead ... ...       | 51 29 | 0 6 E.  | 300                                  | —                      | —            | m.           | 01                             | J. G. Waller.  |
| South Kensington ...    | 51 30 | 0 10 W. | 31                                   | 9, 13, 15,<br>17, 18h. | ◎ B e ●      | M.           | —                              | The Staff of the Meteorological Office.  |
| Tottenham ... ...       | 51 36 | 0 5 W.  | 51                                   | II                     | ○            | W.M.R.       | 10                             | J. F. Butler-Hogan, M.D., LL.D., for Urban District Council.                               |
| Westminster ... ...     | 51 30 | 0 8 W.  | 27                                   | T                      | ● B e        | D.W.M.R.     | —                              | The Staff of the Meteorological Office.  |
| ,, Training Coll. ...   | 51 30 | 0 8 W.  | 107                                  | —                      | ○            |              | —                              | J. H. Cowham and Rev. H. B. Workman, D.Lit.  |

|                               | Westminster           | ...   | 51 30   | 0 8 W.  | 27  | III | •    | W.M.   | H.M. Office of Works.                    |   |
|-------------------------------|-----------------------|-------|---------|---------|-----|-----|------|--------|--|---|
| <b>6. (a) SCOTLAND, WEST.</b> |                       |       |         |         |     |     |      |        |  |   |
| Argyleshire :—                | Ardnadam              | ...   | 55 59   | 4 56 W. | 64  | III | (B)  | —      | Rev. J. Cairns Mitchell, B.D.            |   |
|                               | Gruline, Isle of Mull | ...   | 56 30   | 6 0 W.  | 100 | ●   | —    | —      | J. W. Melles.                            |   |
| Loch Awe :—                   | Cruachan Bothy        | ...   | 56 14   | 5 28 W. | 283 | ●   | —    | —      | John Boyd, Crown Forester.               |   |
|                               | Ford                  | ...   | 56 10   | 5 26 W. | 148 | ●   | —    | 10     |  |   |
|                               | Oban                  | ...   | 56 25   | 5 30 W. | 20  | II  | ○    | 10     | Edwin Baily, M.B., for District Council. |   |
| Ayr :—                        | sPoltalloch           | ...   | 56 8    | 5 30 W. | 132 | II  | —    | W.M.   | D. S. Melville, for Col. Malcolm.        |   |
|                               | sColmonell            | ...   | 55 8    | 4 53 W. | 150 | III | (B)  | W.     | 09                                       | A. Ogg, for J. W. McConnel.   |
|                               | Kilmarnock            | ...   | 55 37   | 4 36 W. | 90  | III | ○    | W.m.   | 08                                       | G. M. Stuart and Thomas Moffat, for the West of Scotland Agric. Coll. |
| Bute :—                       | sRothesay             | ...   | 55 50   | 5 4 W.  | 115 | II  | —    | W.M.   | 10                                       | D. Fenney.  |
| Dumbarton :—                  | No station.           |       |         |         |     |     |      |        |  |   |
| Dumfries :—                   | sDumfries             | ...   | 55 4    | 3 36 W. | 160 | II  | ○    | W.M.   | 09                                       | C. C. Easterbrook, M.D., for the Crichton R. Institution.             |
|                               | Eskdalemuir           | ...   | 55 19   | 3 12 W. | 799 | I   | I    | M.S.   | —  | G. W. Walker, M.A., Superintendent of the Observatory.                |
|                               | S. Ruthwell           | ...   | 55 0    | 3 26 W. | 67  | II  | ○    | m.     | 10                                       | W. H. Whellens, for A. Johnstone Douglas.                             |
| Kirkcudbright :—              | sCally (Gatehouse)    | 54 52 | 4 12 W. | 120     | II  | —   | W.M. | 10     | W. Thomson, for Col. F. Murray Baillie.  |   |
| Lanark :—                     | Glasgow               | ...   | 55 53   | 4 18 W. | 180 | I   | I    | W.M.S. | 10                                       | Prof. L. Becker, Ph.D., for M.O.                                      |
|                               | Thorntonhall          | ...   | 55 46   | 4 15 W. | 440 | III | ○ B  | m.     | 08                                       | John Wilson, for A. Henderson Bishop.                                 |
| Renfrew :—                    | No station.           |       |         |         |     |     |      |        | 11                                       |   |
| Stirling :—                   | No station.           |       |         |         |     |     |      |        |  |   |
| Wigton :—                     | No station.           |       |         |         |     |     |      |        |  |   |
| <b>6. (b) ISLE OF MAN.</b>    |                       |       |         |         |     |     |      |        |  |   |
|                               | Douglas               | ...   | 54 10   | 4 28 W. | 277 | II  | ○    | W.M.S. | 10                                       | Frank Cottle, for the Corporation.                                    |
|                               | "                     | ...   | 54 10   | 4 29 W. | 137 | —   | B    | —      | —  | Mrs. A. W. Moore.   |

The names of Stations added to the list since April, 1910, are printed in clarendon type. The positions of the Stations can be identified on the map, Fig. 11, p. 80, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                | Lat.                             | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer. |  |
|------------------------------------|----------------------------------|---------|--------------------------------------|-------------------|--------------|--------------|-------------------------------------|-----------|--|
|                                    |                                  |         |                                      | Eye Obs.          | Autographic. |              |                                     |           |  |
| <b>7. (a) ENGLAND, NORTH WEST.</b> |                                  |         |                                      |                   |              |              |                                     |           |  |
| Cheshire:—                         | Bidston ...                      | 53° 24' | 3° 4' W.                             | 188               | (I) T        | (I) ⊙        | D.W.M.R.r.                          | 10        | W. E. Plummer, M.A., F.R.A.S., for the Mersey Docks and Harbour Board. |
|                                    | Hawarden Bridge ...              | 53° 12' | 3° 1' W.                             | 22                | III          | —            | W.m.                                | 08        | F. B. Summers.   |
|                                    | M. Hoylake ...                   | 53° 23' | 3° 12' W.                            | 307               | III          | ⊙            | w.m.                                | 02        | Tom Robinson, for Urban District Council.                              |
| Cumberland:—                       | <i>Liscard</i> ...               | 53° 25' | 3° 5' W.                             | 67                | ●            | B            | —                                   | —         | H. Norman Edge.  |
|                                    | Aspatria ...                     | 54° 46' | 3° 21' W.                            | 250               | II           | ⊙ (↙)        | W.M.R.                              | 09        | J. Smith Hill, B.A., B.Sc., Agricultural College.                      |
|                                    | Newton Rigg...                   | 54° 40' | 2° 49' W.                            | 559               | II           | ⊙            | W.M.                                | 08        | W. T. Lawrence, for the Cumberland County Council.                     |
|                                    | Uldale (Chapel House Reservoir). | 54° 43' | 3° 9' W.                             | 599               | ●            | —            | —                                   | —         | T. Strong, for Aspatria and Silloth Water Board.                       |
| Lancashire:—                       | M. Blackpool ...                 | 53° 49' | 3° 3' W.                             | 66                | II           | ⊙ (B ↘ ●)    | d.W.M.                              | 08        | E. W. Rees Jones, M.D., D.P.H., for the Corporation.                   |
|                                    | Burnley ...                      | 53° 48' | 2° 16' W.                            | 459               | III          | ⊙ (B)        | m.r.                                | 08        | Thos. Holt, M.D., for the Corporation.                                 |
|                                    | Carnforth (Over Kelllet).        | 54° 8'  | 2° 44' W.                            | 174               | III          | ⊙            | m.                                  | 08        | W. Farrer.   |
|                                    | Darwen ...                       | 53° 41' | 2° 28' W.                            | 722               | II           | ⊙            | d.M.                                | 08        | F. G. Haworth, M.B., for the Corporation.                              |
|                                    | Fleetwood ...                    | 53° 56' | 3° 1' W.                             | —                 | —            | ↖            | —                                   | 10        | The Urban District Council, for the Meteorological Office.             |
|                                    | Graythwaite ...                  | 54° 19' | 3° 0' W.                             | 180               | ●            | —            | —                                   | —         | H. T. Gnospelius.  |
|                                    | Lancaster ...                    | 54° 3'  | 2° 47' W.                            | 311               | III          | ⊙ (↙) ●      | m.                                  | 09        | Neville Holden, F.R.A.S., for the Storey Institute.                    |
|                                    | Rossall Beach ...                | 53° 55' | 3° 2' W.                             | 0                 | III          | B            | d.                                  | —         | T. G. Benn.  |

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

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|                            |                                  |       |         |     |                    |         |          |    |  |
|----------------------------|----------------------------------|-------|---------|-----|--------------------|---------|----------|----|--|
|                            | Manchester (Oldham Road).        | 53 29 | 2 13 W. | 190 | II                 | ○       | M.R.w.   | 08 | J. Niven, M.A., M.B., for the Corporation.             |
|                            | „ (Whitworth Park).              | 53 28 | 2 14 W. | 125 | II                 | K ○ (B) | d.M.     | 08 | The University of Manchester.                          |
|                            | „ (Prestwich)                    | 53 32 | 2 17 W. | 320 | II                 | ○       | W.M.r.   | 08 | F. Gore, for Medical Superintendent of the Asylum.     |
|                            | M. Southport ...                 | 53 39 | 2 59 W. | 37  | II <sub>2</sub>    | (I) ○   | d.w.M.R. | 07 | J. Baxendell, for the Corporation.                     |
|                            | Stonyhurst ...                   | 53 51 | 2 28 W. | 375 | I                  | —       | W.M.S.R. | 10 | Rev. W. Sidgreaves, S.J., for M.O.                     |
| Westmorland :—             | Kirkby Lonsdale ...              | 54 12 | 2 36 W. | 304 | ●                  | —       | —        | —  | R. A. Clarke.  |
| <b>7. (b) NORTH WALES.</b> |                                  |       |         |     |                    |         |          |    |  |
| Anglesey :—                | Holyhead (Salt Island) (town)    | 53 18 | 4 39 W. | 57  | —                  | B       | D.W.M.   | 10 | F. M. Cotton, C.E., for M.O.                           |
|                            | „                                | 53 18 | 4 39 W. | 48  | T, II <sub>2</sub> | (B)     | M.       | 10 | T. Chope, for M.O.                                     |
| Carnarvon :—               | Llaneugrad ...                   | 53 20 | 4 16 W. | 414 | II                 | ○       | d.m.     | 10 | W. E. Sotheby.   |
|                            | Colwyn Bay ...                   | 53 16 | 3 44 W. | 82  | III                | ○       | —        | 10 | Wm. Jones, A.M.I.C.E., for Urban District Council.     |
|                            | M. Llandudno ...                 | 53 20 | 3 50 W. | 71  | II                 | ○       | d.W.M.R. | 10 | William Little, for the Town Council.                  |
| Denbigh :—                 | Penrhyn Quarry ...               | 53 10 | 4 6 W.  | 527 | ●                  | —       | —        | 01 | W. J. Griffith, for Lord Penrhyn.                      |
|                            | Bettws-y-Coed ...                | 53 7  | 3 53 W. | 101 | II                 | ○       | d.W.M.R. | 08 | Dr. H. W. Fox, for District Council.                   |
| Flint :—                   | Llanbedr Hall (Ruthin)           | 53 8  | 3 17 W. | 450 | ●                  | —       | —        | —  | George A. Crace-Calvert, M.B.                          |
|                            | Penbedw ...                      | 53 12 | 3 11 W. | 650 | —                  | B       | —        | —  | H. W. Buddicom.  |
|                            | Rhyl ...                         | 53 19 | 3 29 W. | 30  | III                | ○       | d.w.m.   | 08 | A. A. Goodall, for District Council.                   |
|                            | St. Asaph (St. Beuno's College). | 53 15 | 3 23 W. | 479 | III                | (B)     | m.       | 10 | Rev. J. Rowland, S.J. and Rev. C. Baillon, S.J., B.Sc. |
| Merioneth :—               | Aberdovey ...                    | 52 33 | 4 4 W.  | 22  | III                | ○       | w.m.     | 10 | W. J. Eves.  |
|                            | M. Towyn ...                     | 52 35 | 4 5 W.  | 10  | III                | ○       | d.       | 10 | E. Lewys Lloyd, M.D., for Urban District Council.      |
| Montgomery :—              | No station.                      | —     | —       | —   | —                  | —       | —        | —  | —  |
| <b>8. (a) SOUTH WALES.</b> |                                  |       |         |     |                    |         |          |    |  |
| Brecknock :—               | Llangammarch Wells               | 52 7  | 3 32 W. | 550 | III                | ○       | W.m.R.   | 09 | W. Black Jones, M.D., B.Sc., D.P.H.                    |
| Cardigan :—                | M. Aberystwyth ...               | 52 25 | 4 4 W.  | 59  | III                | ○       | d.w.m.   | 10 | A. Thomas, M.D., for the Urban Council.                |
|                            | Lampeter ...                     | 52 7  | 4 5 W.  | 498 | ●                  | —       | —        | —  | John C. Harford.                                       |
| Carmarthen :—              | Llandovery ...                   | 51 59 | 3 48 W. | 248 | ●                  | —       | —        | —  | Douglas T. M. Jones.                                   |

The names of Stations added to the list since April, 1910, are printed in clarendon type. The positions of the Stations can be identified on the map, Fig. 11, p. 80, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station,                    | Lat.                       | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |                    | Publication. | Year<br>of last<br>Inspection. | Observer.  |
|--|----------------------------|---------|--------------------------------------|-------------------|--------------------|--------------|--------------------------------|--|
|  |                            |         |                                      | Eye Obs.          | Autographic.       |              |                                |  |
| <b>8. (a) SOUTH WALES—<i>cont.</i></b> |                            |         |                                      |                   |                    |              |                                |  |
| Glamorgan :—                           | Cardiff ...                | 51° 28' | 3° 10' W.                            | 203               | III                | ○            | W.m.r.                         | 10 E. Walford, M.D., for the Corporation.                |
|  | Port Talbot ...            | 51° 34' | 3° 45' W.                            | 179               | ●                  | ○            | (m.)                           | 03 Miss Talbot; G. Lipscomb.                             |
| Pembroke :—                            | Swansea ...                | 51° 37' | 3° 55' W.                            | 24                | III                | —            | m.                             | 10 D. Bliss, for the Corporation.                        |
|  | Haverfordwest ...          | 51° 48' | 4° 58' W.                            | 93                | (II)               | ○(B)         | (m.)                           | 10 J. W. Phillips.                                       |
| Radnor :—                              | Pembroke (St. Ann's Head). | 51° 41' | 5° 11' W.                            | 149               | T, II <sub>2</sub> | ○            | D.W.M.R.                       | 10 Lightkeepers, for M.O.                                |
|  | Tenby ...                  | 51° 41' | 4° 42' W.                            | 79                | —                  | ○            | w.(m.)                         | 03 Miss M. B. Truscott, for the Corporation.             |
| Radnor :—                              | Llandrindod Wells ...      | 52° 14' | 3° 23' W.                            | 699               | ●                  | —            | —                              | — W. B. de Winton.                                       |
|  | Rhayader Watershed         | 52° 18' | 3° 29' W.                            | *                 | (15) ●             | —            | —                              | — Corporation of Birmingham, Water Department.           |
| <b>8. (b) ENGLAND, SOUTH WEST.</b>     |                            |         |                                      |                   |                    |              |                                |  |
| Cornwall :—                            | Falmouth ...               | 50° 9'  | 5° 4' W.                             | 167               | I                  | I            | W.M.R.S.                       | 10 Royal Cornwall Polytechnic Society, for M.O.          |
|  | „ Pendennis Castle,        | 50° 8'  | 5° 3' W.                             | —                 | —                  | ■            | —                              | 10 Coastguard, for M.O.                                  |
| Devonshire :—                          | Fowey ...                  | 50° 21' | 4° 38' W.                            | 61                | III                | ○            | m.                             | 10 Dr. W. H. Boger.                                      |
|  | M. Newquay ...             | 50° 25' | 5° 4' W.                             | 190               | T                  | ○            | w.(m.)                         | 10 C. C. Vigurs, B.A., M.D., for Urban District Council. |
| Devonshire :—                          | M. Penzance ...            | 50° 7'  | 5° 32' W.                            | 54                | III                | ○(B)         | m.                             | 10 Chas. H. Benn, for District Council.                  |
|  | Arlington Court ...        | 51° 8'  | 3° 58' W.                            | 613               | III                | —            | W.m.                           | 10 Miss Chichester.                                      |
| Devonshire :—                          | Barnstaple ...             | 51° 5'  | 4° 3' W.                             | 24                | III                | —            | —                              | 06 Thos. Wainwright, for the North Devon Athenæum.       |
|  | Cullompton ...             | 50° 51' | 3° 23' W.                            | 202               | III                | ○            | W.m.                           | 10 M. T. Foster.   |
| Devonshire :—                          | Paignton ...               | 50° 26' | 3° 34' W.                            | 11                | II                 | ○(B)         | m.d.                           | 10 F. J. Rodgers, for Town Council.                      |
|  | Plymouth ...               | 50° 22' | 4° 8' W.                             | 116               | II <sub>2</sub>    | ○ ■ (B)      | d.W.M.R. ■                     | 10 H. Victor Prigg, A.M.I.C.E., for the Corporation.     |

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|                           |                           |           |         |      |                    |   |            |    |  |
|---------------------------|---------------------------|-----------|---------|------|--------------------|---|------------|----|--|
|                           | M. Salcombe ...           | ... 50 14 | 3 46 W. | 300  | -                  | ○ | (m.)w.     | 04 | V. W. Twining, M.D., and W. Coleridge Roberts.                   |
|                           | M. Sheepstor ...          | ... 50 29 | 4 1 W.  | 749  | II                 |   | m.         | 10 | Rev. H. H. Breton, M.A.  |
|                           | M. Teignmouth ...         | ... 50 33 | 3 29 W. | 20   | III                |   | d.m.       | 10 | G. Rossiter for M.O.H.   |
|                           | M. Torquay ...            | ... 50 28 | 3 31 W. | 12   | III                |   | d.w.(m.)   | 00 | F. March, for the Corporation.                                   |
|                           | Whitchurch ...            | ... 50 32 | 4 6 W.  | 593  | II                 |   | M.         | 10 | E. E. Glyde.   |
|                           | Woolacombe ...            | ... 51 10 | 4 12 W. | 59   | II                 |   | M.R.       | 10 | R. N. Kivell, for Miss Chichester.                               |
| Dorset :—                 | Parkstone ...             | ... 50 43 | 1 56 W. | 197  | ●                  |   | —          | 00 | C. Mabey.  |
|                           | Portland Bill ...         | ... 50 32 | 2 27 W. | 19   | T, II <sub>3</sub> |   | D.W.M.R.   | 10 | G. Carpenter, Lightkeeper, for M.O.                              |
|                           | Shaftesbury ...           | ... 51 1  | 2 12 W. | 722  | III                |   | W.m.       | 10 | Rev. F. Ehlvers.   |
|                           | M. Weymouth ...           | ... 50 36 | 2 27 W. | 21   | III                |   | d.m.       | 08 | I. J. Brown.   |
| Gloucester :—             | Bristol, Over Court Park. | 51 32     | 2 35 W. | 147  | III                |   | r.         | 07 | R. C. Cann Lippincott.   |
| Monmouth :—               | Clifton, Bristol          | 51 27     | 2 37 W. | 229  | III                |   | W.R.m.     | 09 | D. Rintoul, M.A.   |
|                           | Abergavenny               | 51 49     | 3 2 W.  | 178  | ●                  |   | —          | —  | A. V. Whitehead.   |
|                           | Abersychan ...            | 51 44     | 3 5 W.  | 698  | ●                  |   | —          | —  | W. P. James.   |
|                           | Newchurch ...             | 51 41     | 2 48 W. | 525  | ●                  |   | —          | —  |  |
|                           | Newport ...               | 51 35     | 3 0 W.  | 32   | III                |   | —          | 04 | C. Cullum, for the Corporation of Newport.                       |
|                           | Pant-yr-eos ...           | 51 38     | 3 4 W.  | 449  | ●                  |   | —          | 00 |  |
|                           | Ynis-y-fro ...            | 51 38     | 3 3 W.  | 151  | ●                  |   | —          | 00 |  |
| <b>9. IRELAND, NORTH.</b> |                           |           |         |      |                    |   |            |    |  |
|                           | (a) <i>Western Part.</i>  |           |         |      |                    |   |            |    |  |
| Galway :—                 | Ardfry ...                | 53 19     | 9 0 W.  | —    | —                  | B | —          | —  | W. M. Tattersall, for the Department of Agriculture for Ireland. |
|                           | Recess ...                | 53 28     | 9 44 W. | 90   | ●                  | — | —          | —  | M. Macarthy, for the M. G.W. Railway.                            |
| Leitrim :—                | Carrigallen ...           | 53 58     | 7 38 W. | 350? | ●                  |   | —          | —  | Miss Morrow.   |
| Mayo :—                   | Blacksod Point ...        | 54 6      | 10 4 W. | 37   | T, II <sub>3</sub> | B | D.W.M.R.r. | 10 | The Chief Officer, Coastguard, for M.O.                          |
|                           | Mallaranny ...            | 53 55     | 9 40 W. | 119  | ●                  | — | —          | 10 | The Manageress of the Hotel for the M. G.W. Railway.             |
| Roscommon :—              | No station.               |           |         |      |                    |   |            |    |  |
| Sligo :—                  | Markree Castle ...        | 54 11     | 8 27 W. | 122  | II                 | ○ | W.M.S.R.   | 09 | J. R. Armstrong, for Captain Cooper.                             |

The names of Stations added to the list since April, 1910, are printed in clarendon type. The positions of the Stations can be identified on the map, Fig. 11, p. 80, from the figures which give their heights above Mean Sea Level.

\* 15 Rainfall Stations.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                   | Lat.               | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |                    | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer.   |  |  |  |  |  |  |
|---------------------------------------|--------------------|---------|--------------------------------------|-------------------|--------------------|--------------|-------------------------------------|---|--|--|--|--|--|--|
|                                       |                    |         |                                      | Eye Obs.          | Autographic.       |              |                                     |   |  |  |  |  |  |  |
| <b>9. IRELAND, NORTH—<i>cont.</i></b> |                    |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| (b) <i>Eastern Part.</i>              |                    |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| Antrim :—                             | Belfast ...        | 54° 35' | 5° 56' W.                            | 61                | III                | —            | M.R.                                | 09 John Wylie, B.A., and G. Robinson, for Prof. Morton.     |  |  |  |  |  |  |
| Armagh :—                             | Glenarm ...        | 54° 58' | 5° 56' W.                            | 41                | ●                  | —            | —                                   | The Earl of Antrim.   |  |  |  |  |  |  |
| Armagh :—                             | Armagh ...         | 54° 21' | 6° 39' W.                            | 196               | II                 | ☛ ○ ●        | W.M.S.R.                            | 10 J. L. E. Dreyer, Ph.D., for M.O.                         |  |  |  |  |  |  |
| Cavan :—                              | No station.        |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| Donegal :—                            | Dunfanaghy ...     | 55° 11' | 7° 58' W.                            | 54                | II                 | —            | m.                                  | — J. J. MacGrath, L.R.C.P.                                  |  |  |  |  |  |  |
|                                       | Killybegs ...      | 54° 40' | 8° 27' W.                            | 221               | ●                  | —            | —                                   | John C. Ward.   |  |  |  |  |  |  |
|                                       | Malin Head ...     | 55° 23' | 7° 24' W.                            | 230               | T                  | B            | D.W.M.R.r.                          | 10 Chief Officer, Coastguard, for M.O.                      |  |  |  |  |  |  |
|                                       | Rosbeg (Narin)     | 54° 50' | 8° 30' W.                            | —                 | —                  | B            | —                                   | 05 J. McLoone, Postmaster.                                  |  |  |  |  |  |  |
| Down :—                               | Denaghadee ...     | 54° 38' | 5° 32' W.                            | 40                | T, II <sub>3</sub> | B            | D.W.M.R.r.                          | 10 T. Arnell, Coastguard, for M.O.                          |  |  |  |  |  |  |
| Fermanagh :—                          | No station.        |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| Londonderry :—                        | No station.        |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| Longford :—                           | No station.        |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| Louth :—                              | No station.        |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| Meath :—                              | No station.        |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| Monaghan :—                           | No station.        |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| Tyrone :—                             | No station.        |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| Westmeath :—                          | No station.        |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| <b>10. IRELAND, SOUTH.</b>            |                    |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| (a) <i>Eastern Part.</i>              |                    |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| Carlow :—                             | No station.        |         |                                      |                   |                    |              |                                     |   |  |  |  |  |  |  |
| Dublin :—                             | M. Dublin City ... | 53° 20' | 6° 15' W.                            | 47                | II                 | B            | d.W.M.R.                            | 07 Sir John W. Moore, M.D., D.Sc.                           |  |  |  |  |  |  |
|                                       | „ Phoenix Park     | 53° 22' | 6° 21' W.                            | 155               | II                 | ○ ☛          | w.M.S.                              | 09 Lt.-Col. C. C. J. Pery, R.E.,<br>Ordnance Survey Office. |  |  |  |  |  |  |

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|  |                |                            |       |         |     |       |         |              |    |  |
|--|----------------|----------------------------|-------|---------|-----|-------|---------|--------------|----|--|
|  |                | Botanic Gar-<br>dens.      | 53 23 | 6 16 W. | 67  | II    | -       | m.           | 07 | F. W. Moore, M.R.I.A.  |
|  |                | Trinity College            | 53 21 | 6 16 W. | 12  | II    | ○       | M.(R.)w.     | 07 | W. J. Good and W. H. Clark,<br>for Prof. Thrift.   |
|  |                | Killiney ...               | 53 16 | 6 7 W.  | 249 | ●     | -       | -            | -  | Mrs. G. B. Symes.  |
|  |                | M. Kingstown ...           | 53 17 | 6 8 W.  | 42  | III   | ○       | m.           | 09 | The late R. A. O'Donovan, M.D.,<br>J. S. Vaughan, LL.D., Town<br>Clerk, for the Corporation. |
|  |                | „ Harbour ...              | 53 17 | 6 8 W.  | -   | -     | ■       | ■            | 10 | Captain A. F. Holmes, R.N., for<br>H.M. Office of Works.                                     |
|  | Kildare :—     | Clongowes Wood<br>College. | 53 19 | 6 41 W. | 245 | II    | (B θ) ○ | m.           | 09 | Rev. J. J. Nerney, S.J.  |
|  | Kilkenny :—    | Kilkenny ...               | 52 39 | 7 14 W. | 212 | III   | B       | W.m.         | 09 | E. Sutton, for the Marquis of<br>Ormonde, K.P.   |
|  | King's Co. :—  | Birr Castle ...            | 53 6  | 7 55 W. | 175 | II, T | ○       | D.W.M.S.R.r. | 09 | Dr. Boedicker, for the Earl of<br>Rosse.   |
|  | Queen's Co. :— | Mountmellick               | 53 7  | 7 20 W. | 253 | III   | -       | m.           | 09 | W. A. Robinson.  |
|  | Waterford :—   | Waterford ...              | 52 16 | 7 7 W.  | -   | —     | B       | -            | 02 | Harbour Authorities.   |
|  |                | „ ...                      | 52 16 | 7 7 W.  | 20? | III   | -       | W.m.R.       | 07 | J. N. White.   |
|  | Wexford :—     | No station.                |       |         |     |       |         |              |    | Miss A. L. Scott.  |
|  | Wicklow :—     | Bray ...                   | 53 12 | 6 6 W.  | 153 | ●     | -       |              |    | L. T. Burra, M.D., and J. T.<br>Crowe, M.D.  |
|  |                | M. Newcastle ...           | 53 5  | 6 6 W.  | 256 | II    | -       | m.           | 02 |  |
|  |                | <i>(b) Western Part.</i>   |       |         |     |       |         |              |    |  |
|  | Clare :—       | Ennistymon ...             | 52 57 | 9 17 W. | 130 | ●     | -       | -            | -  | Rev. C. W. McDowell, M.A.  |
|  |                | Hurdlestown ...            | 52 48 | 8 38 W. | 157 | ●     | -       | -            | -  | Lt.-Col. W. O. Bentley, R.A.   |
|  |                | Mount Callan ...           | 52 53 | 9 16 W. | 479 | ●     | -       | -            | 98 | Lt.-Col. Tottenham.  |
|  |                | Newmarket-on-<br>Fergus.   | 52 46 | 8 53 W. | 85  | ●     | -       | -            | 98 | Alfred Barker, for W. W. A.<br>Fitzgerald.   |
|  | Cork :—        | Ballinacurra ...           | 51 52 | 8 10 W. | 24  | III   | ○       | w.m.         | 10 | John H. Bennett.   |
|  |                | Roche's Point ...          | 51 47 | 8 15 W. | 32  | T     | -       | D.W.M.R.r.   | 10 | M. FitzMahony, Post Office, for M.O.   |
|  |                | „ „                        | 51 47 | 8 15 W. | -   | -     | ■       | ■            | 10 | Captain G. Usborne, for Cork<br>Harbour Commissioners.                                       |

The names of Stations added to the list since April, 1910, are printed in clarendon type. The positions of the Stations can be identified on the map, Fig. 11, p. 80, by the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                               | Lat.                            | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |                    | Publication   | Year<br>of last<br>Inspection.   | Observer.                                 |  |  |  |  |  |  |
|---|---------------------------------|---------|--------------------------------------|-------------------|--------------------|---|--|---|--|--|--|--|--|--|
|   |                                 |         |                                      | Eye Obs.          | Autographic.       |   |  |   |  |  |  |  |  |  |
| <b>10. IRELAND, SOUTH—<i>cont.</i></b>            |                                 |         |                                      |                   |                    |   |  |   |  |  |  |  |  |  |
| (b) <i>Western Part</i> — <i>cont.</i>            |                                 |         |                                      |                   |                    |   |  |   |  |  |  |  |  |  |
| Kerry :—  | Caragh Lake ...                 | 52° 3'  | 9° 53' W.                            | 59                | ●                  | —   | —  | Admiral E. F. Jeffreys, C.V.O.            |  |  |  |  |  |  |
|   | Killarney ...                   | 52° 4'  | 9° 30' W.                            | 174               | III                | —   | W.m.R.   | E. W. Griffin, M.D.                       |  |  |  |  |  |  |
|   | Valencia ...                    | 51° 56' | 10° 15' W.                           | 30                | I, T               | I, B  | D.W.M.R.r.   | J. E. Cullum, for M.O.                    |  |  |  |  |  |  |
|   | " Glanleam ...                  | 51° 56' | 10° 20' W.                           | —                 | ●                  | —   | —  | A. O'Donoghue.                            |  |  |  |  |  |  |
| Limerick :—                                       | Foynes ...                      | 52° 37' | 9° 7' W.                             | 108               | III                | —   | W.m.   | J. J. Alcorn, for Lord Monteagle,<br>K.P. |  |  |  |  |  |  |
|   | Limerick (Derravoher)           | 52° 38' | 8° 40' W.                            | 40                | ●                  | —   | —  | Sir A. W. Shaw.                           |  |  |  |  |  |  |
|   | " (Mangret Coll.).              | 52° 38' | 8° 41' W.                            | 47                | II                 | (B)   | M.   | Rev. W. O'Leary, S.J.                     |  |  |  |  |  |  |
| Tipperary :—                                      | Cahir (Bengurragh)              | 52° 22' | 7° 56' W.                            | 199               | III                | —   | W.m.   | R. W. Smith, Jun.                         |  |  |  |  |  |  |
| <b>11. ENGLISH CHANNEL<br/>(WESTERN SECTION).</b> |                                 |         |                                      |                   |                    |   |  |   |  |  |  |  |  |  |
| Guernsey :—                                       | M. St. Peter Port, Villa Carey. | 49° 27' | 2° 32' W.                            | 180               | III                | ○   | W.m.   | F. E. Carey, M.D.                         |  |  |  |  |  |  |
|   | St. Peter Port, Brooklyn.       | 49° 27' | 2° 31' W.                            | 297               | II                 | ○ (B θ)   | w.M.R.   | Adolphus Collenette.                      |  |  |  |  |  |  |
| Jersey :—   | St. Aubin's ...                 | 49° 12' | 2° 11' W.                            | 25                | T, II <sub>3</sub> | —   | D.W.M.R.   | J. Fisher, for M.O.                       |  |  |  |  |  |  |
|   | St. Helier's ...                | 49° 11' | 2° 6' W.                             | —                 | —                  | ○   | d.w.(m.)R.   | Signal Officer, Fort Regent, for<br>M.O.  |  |  |  |  |  |  |
| Scilly :—   | St. Mary's ...                  | 49° 56' | 6° 18' W.                            | 131               | T, II <sub>3</sub> | B  ○ | D.W.M.R.  | The Coastguard, for M.O.                  |  |  |  |  |  |  |

The names of Stations added to the list since April, 1910, are printed in clarendon type. The positions of the Stations can be identified on the map, Fig. 11, p. 80, by the figures which give their heights above Mean Sea Level.

## Appendix II.—Supply of Information to the Public. 101

## LIST OF FOREIGN STATIONS FROM WHICH REPORTS ARE RECEIVED DAILY BY TELEGRAPH. (See PAGE 61.)

| Name of Station.                        | Authority.   |
|---|--|
| *Reykjavik                              |  |
| **Blonduös                              |  |
| *Akureyri                               | (Iceland) ... } Meteorological Institute, Copenhagen.<br>Isafjord } Captain Ryder, <i>Director</i> . |
| *Seydisfjord                            |  |
| *Thorshavn, Faeröe Islands              |  |
| Haparanda                               | ... ... }  |
| Hernösand                               | ... ... }  |
| *Stockholm                              | ... ... } Meteorological Office, Stockholm.<br>Wisby ... } Dr. Hamberg, <i>Director</i> .            |
| Karlstad                                | ... ... }  |
| Bodö                                    | ... ... }  |
| *Christiansund                          | ... ... }  |
| *Skudenesnaes                           | ... ... } Meteorological Institute, Christiania.<br>Færder ... } Professor Mohn, <i>Director</i> .   |
| *The Skaw                               | ... ... }  |
| Blaavands Huk                           | ... ... }  |
| Cuxhaven                                | ... ... }  |
| Berlin                                  | ... ... }  |
| Frankfurt                               | ... ... }  |
| Munich                                  | ... ... }  |
| *The Helder                             | ... ... } Meteorological Institute, Utrecht.<br>Brussels   |
| Cape Gris Nez                           | ... ... }  |
| La Hève                                 | ... ... }  |
| *Ushant                                 | ... ... }  |
| *Brest (St. Mathieu)                    | ... ... }  |
| Lorient (Ile de Groix)                  | ... ... }  |
| *Er-Hastellic                           | ... ... }  |
| * <sup>1, 2</sup> Rochefort (Ile d'Aix) | ... ... }  |
| *Chassiron                              | ... ... }  |
| *La Coubre                              | ... ... } Bureau Central Météorologique, Paris.<br>Biarritz  |
| *Paris                                  | ... ... }  |
| Belfort                                 | ... ... }  |
| Lyons                                   | ... ... }  |
| Nice                                    | ... ... }  |
| Perpignan                               | ... ... }  |
| *Cape Béarn                             | ... ... }  |
| Sanguinaire (Corsica)                   | ... ... }  |
| Corunna                                 | ... ... } Central Meteorological Institute, Madrid.<br>Lisbon  |
| Madeira (Funchal)                       | ... ... }  |
| *Azores (Ponta Delgada)                 | ... ... }  |
| ,, (Horta)                              | ... ... } Observatory, Lisbon.<br>Major Chaves, <i>Director</i> .                                    |

Note.—The stations marked (\*) report also at 1h. p.m., and those marked (\*\*) at 6h. p.m.  
 Lisbon reports at 4h. p.m. instead of 6h. p.m., and Ponta Delgada at 3h. p.m.  
 \* The reports from these stations are not published in the Daily Weather Report.

**LIST OF ADDITIONAL STATIONS FROM WHICH REPORTS ARE RECEIVED FOR THE DAILY WEATHER REPORT. (See PAGE 61.)**

| Station.         | Hour<br>of<br>Observation.             | Station.          | Hour<br>of<br>Observation.             |
|------------------|--|-------------------|--|
| Oban ..          | 6 p.m. By wire.                        | Worthing ..       | 6 p.m. By wire and post.               |
| Stonehaven ..    | 6 p.m. By wire.                        | Brighton ..       | 6 p.m. By wire and post.               |
| Dublin ..        | 4 p.m. By post.                        | Seaford ..        | 6 p.m. By wire and post.               |
| Douglas ..       | 6 p.m. By wire.                        | Eastbourne ..     | 6 p.m. By wire and post.               |
| Blackpool ..     | 6 p.m. By wire; and 9 p.m.<br>by post. | Bexhill-on-Sea .. | 9 p.m. By post.                        |
| Southport ..     | 6 p.m. By wire; and 9 p.m.<br>by post. | Hastings ..       | 6 p.m. By wire and post.               |
| Rhyl ..          | 6 p.m. By wire and post.               | Folkestone ..     | 6 p.m. By wire and post.               |
| Colwyn Bay ..    | 6 p.m. By wire and post.               | Deal ..           | 6 p.m. By wire and post.               |
| Llandudno ..     | 6 p.m. By wire; and 9 p.m.<br>by post. | Ramsgate ..       | 6 p.m. By wire and post.               |
| Bettws-y-Coed .. | 6 p.m. By wire.                        | Margate ..        | 6 p.m. By wire and post.               |
| Aberystwyth ..   | 6 p.m. By wire.                        | Felixstowe ..     | 6 p.m. By wire and post.               |
| Plymouth ..      | 9 p.m. By post.                        | Lowestoft ..      | 6 p.m. By wire and post.               |
| Paignton ..      | 6 p.m. By wire and post.               | Skegness ..       | 6 p.m. By wire and post.               |
| Torquay ..       | 6 p.m. By wire and post.               | Scarborough ..    | 6 p.m. By wire; and 9 p.m.<br>by post. |
| Teignmouth ..    | 9 p.m. By post.                        | Harrogate ..      | 6 p.m. By wire and post.               |
| Weymouth ..      | 6 p.m. By wire and post.               | Buxton ..         | 6 p.m. By wire and post.               |
| Bournemouth ..   | 6 p.m. By wire and post.               | Darwen ..         | 9 p.m. By post.                        |
| Southsea ..      | 6 p.m. By wire.                        | Manchester ..     | 9 p.m. By post.                        |
|                  |  | Birmingham ..     | 9 p.m. By post.                        |

**LIST OF SEA TEMPERATURE STATIONS.**

|  |                                   |
|--|-----------------------------------|
| § *Aberdeen, Cove Bay.                   | †North Arklow Lightship.          |
| *Arran, North, Galway.                   | *North Arran ( <i>see</i> Arran). |
| †Bahama Bank Lightship.                  | †North-West Lightship.            |
| § *Ballantrae, Ayrshire.                 | †Outer Dowsing Lightship.         |
| *Ballydonegan, Co. Cork.                 | †Owers Lightship.                 |
| †Barrels Rock Lightship.                 | § *Pennan Bay (Aberdour).         |
| *Blacksod Point, Co. Mayo.               | § *Plymouth.                      |
| †Blackwater Bank Lightship.              | § *Port Erin.                     |
| § *Burnmouth, Ayton, Berwick.            | *Portrush.                        |
| *Burntisland.                            | †Royal Sovereign Lightship.       |
| †Carnarvon Bay Lightship.                | *St. Ann's Head, Pembroke.        |
| §† Cleggan, Co. Galway.                  | § *Salcombe, Devon.               |
| †Coningbeg Lightship.                    | § *Scarborough.                   |
| § *Cromarty.                             | * Scilly Islands (St. Mary's).    |
| †Daunts Rock Lightship.                  | § *Seafield, Co. Clare.           |
| §' Eastbourne.                           | †Seven Stones Lightship.          |
| †East Goodwin Lightship.                 | †Shambles Lightship.              |
| †English and Welsh Grounds<br>Lightship. | § Sheephaven (Dunfanaghy).        |
| †Fastnet Rock Lighthouse.                | §† Shipwash Lightship.            |
| ² Holyhead Harbour Office.               | †Skulmartin Lightship.            |
| § *Kirkwall.                             | †Smith's Knoll Lightship.         |
| †Kish Bank Lightship.                    | †Solway Lightship.                |
| § *Lamlash, Isle of Arran.               | †South Arklow Lightship.          |
| †Leman and Ower Lightship.               | †South Rock Lightship.            |
| § *Lerwick.                              | †Spurn Lightship.                 |
| *Liscannor, Co. Clare.                   | *Stornoway.                       |
| §³ Margate.                              | *Sunderland.                      |
| †Morecambe Bay Lightship.                | § *Teelin, Co. Donegal.           |
| †Newarp Lightship.                       | *Usan (Montrose).                 |
| § *Newquay, Cornwall.                    | †Varne Lightship.                 |
|  | § *Wick.                          |

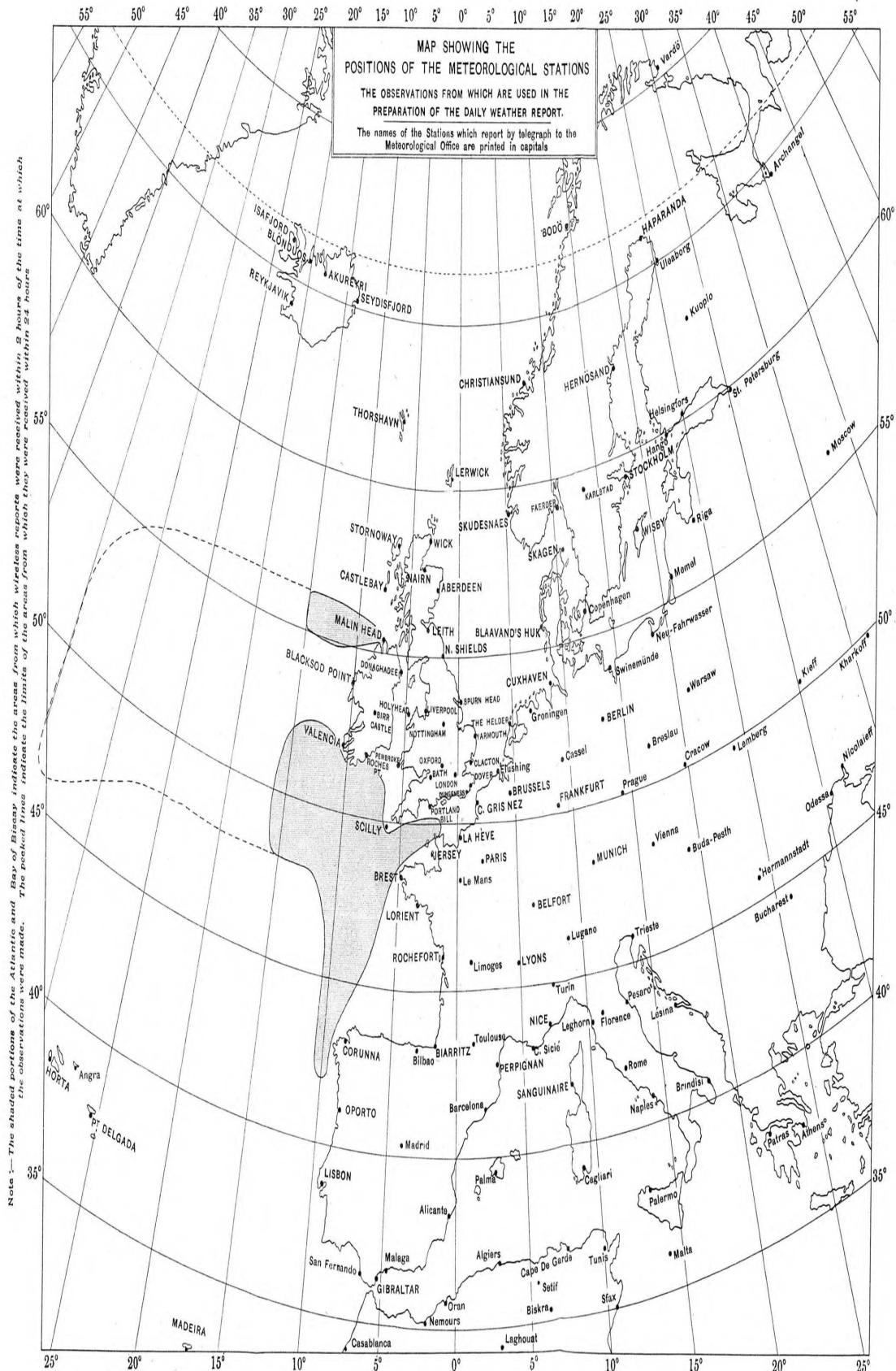
The observers are indicated thus :—\* Coastguard, † Lightkeepers, <sup>1</sup>S. R. Henderson, <sup>2</sup>F. M. Cotton, C.E., <sup>3</sup>W. J. Woodruff, <sup>4</sup>H. Victor Prigg, <sup>5</sup>Biological Station.

§ Stations marked thus send weekly returns for publication in the Weekly Weather Report.

*Report of Meteorological Committee, 1910-1911.*

To face p. 102.

Fig. 13



**LIST OF STATIONS in the COLONIES and DEPENDENCIES and in FOREIGN COUNTRIES from WHICH RETURNS are received in MANUSCRIPT.**

NOTE.—Returns received in printed form are not included in this list.

| Station.                           | Latitude. | Longitude. | Height in Feet above M.S.L. | Order of Station. | Year of Commencement of Observations. | Observer  |
|------------------------------------|-----------|------------|-----------------------------|-------------------|---------------------------------------|---|
| <b>MEDITEBRANEAN.</b>              |           |            |                             |                   |                                       |   |
| Cyprus,* †Famagusta ... ... ...    | 35 7 N.   | 33 57 E.   | 34                          | II                | 1881                                  |   |
| " †Kyrenia ... ... ...             | 35 21 N.  | 33 19 E.   | 54                          | II                | 1881                                  |   |
| " †Larnaca ... ... ...             | 34 55 N.  | 33 37 E.   | 19                          | II                | 1881                                  |   |
| " †Limassol ... ... ...            | 34 40 N.  | 33 1 E.    | 26                          | II                | 1881                                  |   |
| " †Nicosia ... ... ...             | 35 11 N.  | 33 22 E.   | 493                         | II                | 1881                                  |   |
| " †Papho ... ... ...               | 34 46 N.  | 32 25 E.   | 202                         | II                | 1881                                  |   |
| Gibraltar ... ... ...              | 30 6 N.   | 5 21 W.    | 48                          | II                | 1883                                  | Colonial Secretary's Department.  |
| Morocco, †Cape Spartel ... ... ... | 35 47 N.  | 5 55 W.    | 191                         | II                | 1893                                  | Edwin C. Hathaway, for Lloyds.  |
| " Mogador ... ... ...              | 31 30 N.  | 9 42 W.    | 19                          | ●                 | 1903                                  | H. B. Johnstone, H.B.M. Vice-Consul.  |
| " Saffi ... ... ...                | †32 17 N. | 9 8 W.     | 40                          | ●                 | 1905                                  | N. A. de Silva.   |
| Syria, Beyrouth ... ... ...        | 33 54 N.  | 35 28 E.   | 172                         | II                | 1883                                  | A. S. Kheiri, B.A., for Alfred H. Joy, M.A., Director of the Syrian Protestant College. |
| Turkey, Smyrna ... ... ...         | 38 26 N.  | 17 9 E.    | 50                          | ● §               | 1908                                  | H. Echiboukdjian, for Rev. Alex. MacLachlan, President, International College.          |
| <b>AFRICA.</b>                     |           |            |                             |                   |                                       |   |
| Central :—                         |           |            |                             |                   |                                       |   |
| Uganda, Bululu ... ... ...         | 1 43 N.   | 33 13 E.   | 3,518                       | III               | 1908                                  |   |
| " Entebbe ... ... ...              | 0 4 N.    | 32 28 E.   | 3,863                       | III               | 1896                                  |   |
| " Fort Portal ... ... ...          | 0 43 N.   | 30 8 E.    | 5,299                       | III               | 1901                                  |   |
| " Gondokoro ... ... ...            | 4 51 N.   | 31 42 E.   | 1,500                       | III               | 1901                                  | M. T. Dawe, Director of the Scientific Department.                                      |
| " Jinja ... ... ...                | 0 26 N.   | 33 11 E.   | 3,722                       | III               | 1901                                  |   |

\* By arrangement with the Colonial Office and the Survey Department of Egypt the returns for these stations are sent in the first instance to the Survey Department for use in connexion with its Monthly Weather Report. They are sent to the Office for ultimate filing.

† The positions and heights of the stations are those given by the observers, except in cases marked †, for which the information given has been obtained from other sources.

‡ The Meteorological instruments in use at this Station are lent by the Meteorological Committee.

§ Rainfall Stations.

LIST OF STATIONS in the COLONIES, &c., from which RETURNS are received in MANUSCRIPT—*continued.*

| Station.                        | Latitude. | Longitude. | Height in Feet above M.S.L. | Order of Station. | Year of Commencement of Observations. | Observer.                  |
|---------------------------------|-----------|------------|-----------------------------|-------------------|---------------------------------------|----------------------------|
| <b>AFRICA—<i>continued.</i></b> |           |            |                             |                   |                                       |                            |
| Central— <i>continued.</i>      |           |            |                             |                   |                                       |                            |
| Uganda, Kampala ...             | 0 19 N.   | 32 35 E.   | 3,905                       | III               | 1907                                  |                            |
| " Kawolongoja ...               | 0 24 N.   | 32 11 E.   | 4,263                       | III               | 1910                                  |                            |
| " Kivuvu Kyagwe ...             | 0 23 N.   | 32 47 E.   | 7,3,650                     | III               | 1910                                  |                            |
| " Koba ...                      | 2 19 N.   | 31 29 E.   | —                           | III               | 1907                                  |                            |
| " Masaka ...                    | 0 21 S.   | 31 47 E.   | 7,4,200                     | III               | 1902                                  |                            |
| " Masindi ...                   | 1 40 N.   | 31 50 E.   | 3,764                       | III               | 1906                                  |                            |
| " Mbale ...                     | 1 2 N.    | 34 6 E.    | 7,4,000                     | III               | 1907                                  |                            |
| " Mbarara ...                   | 0 31 N.   | 30 47 E.   | 4,500                       | III               | 1901                                  |                            |
| " Nimule ...                    | 3 39 N.   | 32 10 E.   | 2,034                       | III               | 1903                                  |                            |
| West:—                          |           |            |                             |                   |                                       |                            |
| Gold Coast, Aburi ...           | 5 50 N.   | 0 10 W.    | 556                         | III               | 1893                                  |                            |
| " Accra ...                     | +5 35 N.  | 0 6 W.     | 60                          | III               | 1893                                  |                            |
| " Addah ...                     | 5 50 N.   | 0 38 E.    | —                           | III               | 1895                                  |                            |
| " Axim ...                      | +4 50 N.  | 2 12 W.    | —                           | III               | 1895                                  |                            |
| " +Cape Coast Castle ...        | +5 15 N.  | 0 30 W.    | —                           | III               | 1895                                  |                            |
| " Gambaga ...                   | +10 31 N. | 0 26 W.    | —                           | III               | 1899                                  |                            |
| " Kintampo ...                  | 8 5 N.    | 1 30 W.    | —                           | III               | —                                     | Medical Department, Accra. |
| " Kumasi (Coomassie) ...        | +6 50 N.  | 2 16 W.    | 859                         | III               | 1899                                  |                            |
| " Kwitta (Keta) ...             | +5 59 N.  | 0 59 E.    | —                           | III               | 1895                                  |                            |
| " Sekondi ...                   | 5 0 N.    | 1 40 W.    | 20                          | III               | 1904                                  |                            |
| " Sunyani ...                   | 7 22 N.   | 2 19 W.    | —                           | III               | 1908                                  |                            |
| " Tamale ...                    | 9 23 N.   | 0 50 W.    | —                           | III               | 1908                                  |                            |
| " Tarkwa (Tarquah) ...          | 5 11 N.   | 2 0 W.     | 245                         | III               | 1907                                  |                            |
| Northern Nigeria:—              |           |            |                             |                   |                                       |                            |
| Bauchi ...                      | 10 17 N.  | 9 49 E.    | 2,300                       | III               | 1907                                  |                            |
| Geidam (Dumjeri) ...            | 12 53 N.  | 11 57 E.   | 7,900                       | III               | 1907                                  |                            |
| Ilorin ...                      | 8 29 N.   | 4 32 E.    | 968                         | III               | 1907                                  |                            |
| Kano ...                        | 12 0 N.   | 8 33 E.    | 2,000                       | III               | 1907                                  |                            |
| Katagum ...                     | 12 17 N.  | 10 22 E.   | 108                         | III               | 1907                                  |                            |
| Keffi ...                       | 8 50 N.   | 7 52 E.    | —                           | III               | 1907                                  |                            |
| Kontagora ...                   | 10 24 N.  | 5 24 E.    | 1,300                       | III               | 1907                                  | The Secretariat, Zungeru.  |

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

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|                                       |           |           |        |        |      |  |
|---------------------------------------|-----------|-----------|--------|--------|------|--|
| Lokoja ... ... ... ...                | 7 48 N.   | 6 44 E.   | 270    | III    | 1907 |  |
| Maifoni (Maiduguri) ... ...           | 11 48 N.  | 13 12 E.  | 1,200  | III    | 1907 |  |
| Sokoto ... ... ... ...                | 13 1 N.   | 5 14 E.   | 1,160  | III    | 1907 |  |
| Yola ... ... ... ...                  | 9 12 N.   | 12 30 E.  | 850    | III    | 1907 |  |
| Zaria ... ... ... ...                 | 11 6 N.   | 7 43 E.   | 2,230  | III    | 1907 |  |
| Zungeru ... ... ... ...               | 9 49 N.   | 6 10 E.   | 530    | III    | 1907 |  |
| Sierra Leone ... ... ...              | 8 30 N.   | 13 9 W.   | 179    | II     | 1895 | The Principal Medical Officer,                           |
| Southern Rhodesia :—                  |           |           |        |        |      | The Secretariat, Zungeru.                                |
| Ringstead Reef (Essexvale) ...        | 21 0 S.   | 29 0 E.   | 4,496  | ●      | 1908 | Mrs C. E. Fripp.   |
| Somaliland—                           |           |           |        |        |      |  |
| Berbera ... ... ... ...               | 10 22 N.  | 45 2 E.   | 30     | III    | 1908 |  |
| Sheik Camp Hospital ... ...           | 9 50 N.   | 45 16 E.  | 4,500  | III    | 1908 |  |
| Zaila ... ... ... ...                 | —         | —         | —      | III    | 1910 | A. W. Sofly.   |
| SOUTH AMERICA.                        |           |           |        |        |      |  |
| British Guiana, Georgetown ... ...    | 6 49 N.   | 56 10 W.  | 0      | ○      | 1906 |  |
| " " Mazaruni (Penal Settlement).      | —         | —         | —      | ○      | 1908 | F. A. Stockdale, Government Botanist.                    |
| Venezuela, Guayanavieja (El Perú) ... | 7½ 0 N.   | 62 0 W.   | 1,000? | II B Θ | 1910 | Dr. E. H. Griffen, for the Goldfields of Venezuela, Ltd. |
| CHINA.                                |           |           |        |        |      |  |
| Chinkiang ... ... ... ...             | 32 13 N.  | 119 27 E. | 40     | II ○   | 1905 | Capt. Lewis H. Tamplin.                                  |
| NORTH ATLANTIC OCEAN.                 |           |           |        |        |      |  |
| Bermuda Dockyard ... ...              | 32 20 N.  | 64 51 W.  | 30     | —      | 1889 | Lieut. C. E. Stainer, R.N.                               |
| Bahamas, Nassau ... ...               | †25 2 N.  | 77 25 W.  | —      | III    | 1895 | R. W. D. Albury.   |
| " Abaco ... ...                       | 25 51 N.  | 77 11 W.  | 75     | II     | 1859 | G. C. Pinder   |
| " Cay Lobos ... ...                   | 22 22 N.  | 77 35 W.  | —      | II     | 1877 | S. W. Roberts  |
| " Cay Sal ... ...                     | 23 42 N.  | 80 25 W.  | 40     | II     | 1859 | J. A. Thompson   |
| " Inagua ... ...                      | 20 56 N.  | 73 41 W.  | 40     | II     | 1871 | E. J. Jones  |
| " Watling's Island ...                | 24 8 N.   | 74 26 W.  | 120    | II     | 1889 | J. S. Solomon  |
| Barbados ... ... ... ...              | †13 12 N. | 59 35 W.  | 181    | II     | 1895 | John R. Bovell, Superintendent Botanical Department.     |
| † Sombrero ... ... ... ...            | 18 36 N.  | 63 28 W.  | 34     | II     | 1867 | A. L. Richardson, Lightkeeper, for the Board of Trade.   |

\* Lighthouse; contributes register containing observations every 4 hours.

† The positions and heights of the stations are those given by the observers, except in cases marked †, for which the information given has been obtained from other sources.

‡ The Meteorological instruments in use at this Station are lent by the Meteorological Committee.

LIST OF STATIONS in the COLONIES, &c., from which RETURNS are received in MANUSCRIPT—*continued.*

| Station.                                | Latitude. | Longitude. | Height in<br>Feet above<br>M.S.L. | Order<br>of<br>Station. | Year of<br>Commence-<br>ment of<br>Observations. | Observer.   |
|---|-----------|------------|-----------------------------------|-------------------------|--|---|
| <b>SOUTH ATLANTIC OCEAN.</b>            |           |            |                                   |                         |  |   |
| Falkland Islands :—                     | ° ,       | ° ,        |                                   |                         |  |   |
| *†Cape Pembroke ... ... ...             | 51 41 S.  | 57 42 W.   | 70                                | II                      | 1859   | J. Pearce, Lightkeeper, for the Board of Trade.   |
| ‡Stanley... ... ...                     | —         | —          |                                   | ○ B                     | —  | His Excellency the Governor.  |
| ‡St. Helena; St. Matthew's Vicarage ... | 16 0 S.   | 5 40 W.    | 1,887                             | II                      | 1885   | A. L. C. Hands.   |
| " Central, Oak Bank ...                 | —         | —          | 1,696                             | ●                       | 1902   | J. Homagee.   |
| " St. Paul's Vicarage ...               | —         | —          | 1,694                             | ●                       | 1905   | Alfred Porter.  |
| South Georgia, Grytviken ...            | 54 14 S.  | 36 33 W.   | 10                                | II                      | 1906   | R. MacDougall, for the Argentine Fishery Company, transmitted by the Governor of the Falkland Islands through the Board of Trade. |
| <b>PACIFIC OCEAN.</b>                   |           |            |                                   |                         |  |   |
| British Solomon Islands :—              |           |            |                                   |                         |  |   |
| Tulagi ... ... ... ...                  | 9 5 S.    | 160 8 W.   | 7                                 | III                     | 1907   | F. J. Barnett.  |
| Fiji :—                                 |           |            |                                   |                         |  |   |
| Suva ... ... ... ..                     | 18 8 S.   | 178 0 E.   | 44                                | II                      | 1906   | C. H. Knowles, Superintendent Department of Agriculture.  |
| Fanning Island ... ... ... ...          | 3 54 S.   | 159 23 W.  | —                                 | III                     | 1903   | The Pacific Cable Board.  |
| Malden Island ... ... ... ...           | 3 69 S.   | 155 0 W.   | —                                 | II                      | —  | Geo. H. Crocker.  |
| ‡Ocean Island ... ... ... ...           | 0 52 S.   | 169 36 E.  | 159                               | II B.                   | 1905   | W. H. Knight, for the Pacific Phosphate Company.  |
| <b>INDIAN OCEAN.</b>                    |           |            |                                   |                         |  |   |
| Madagascar :—                           |           |            |                                   |                         |  |   |
| Antananarivo ... ... ... ...            | 18 55 S.  | 45 16 E.   | —                                 | ●                       | 1903   | T. P. Porter, H.B.M. Consul.  |
| Mauritius, Royal Alfred Observatory ... | 20 6 S.   | 57 31 E.   | 181                               | (I)                     | 1901   | T. F. Claxton, Director.  |

\* Lighthouse; contributes register containing observations every 4 hours.

† The Meteorological instruments in use at this Station are lent by the Meteorological Committee.

# SEVENTH ANNUAL REPORT

OF THE

## METEOROLOGICAL COMMITTEE

TO THE

LORDS COMMISSIONERS OF HIS MAJESTY'S  
TREASURY.

For the Year ended 31st March, 1912  
(*the Fifty-seventh Year of the Meteorological Office*).

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

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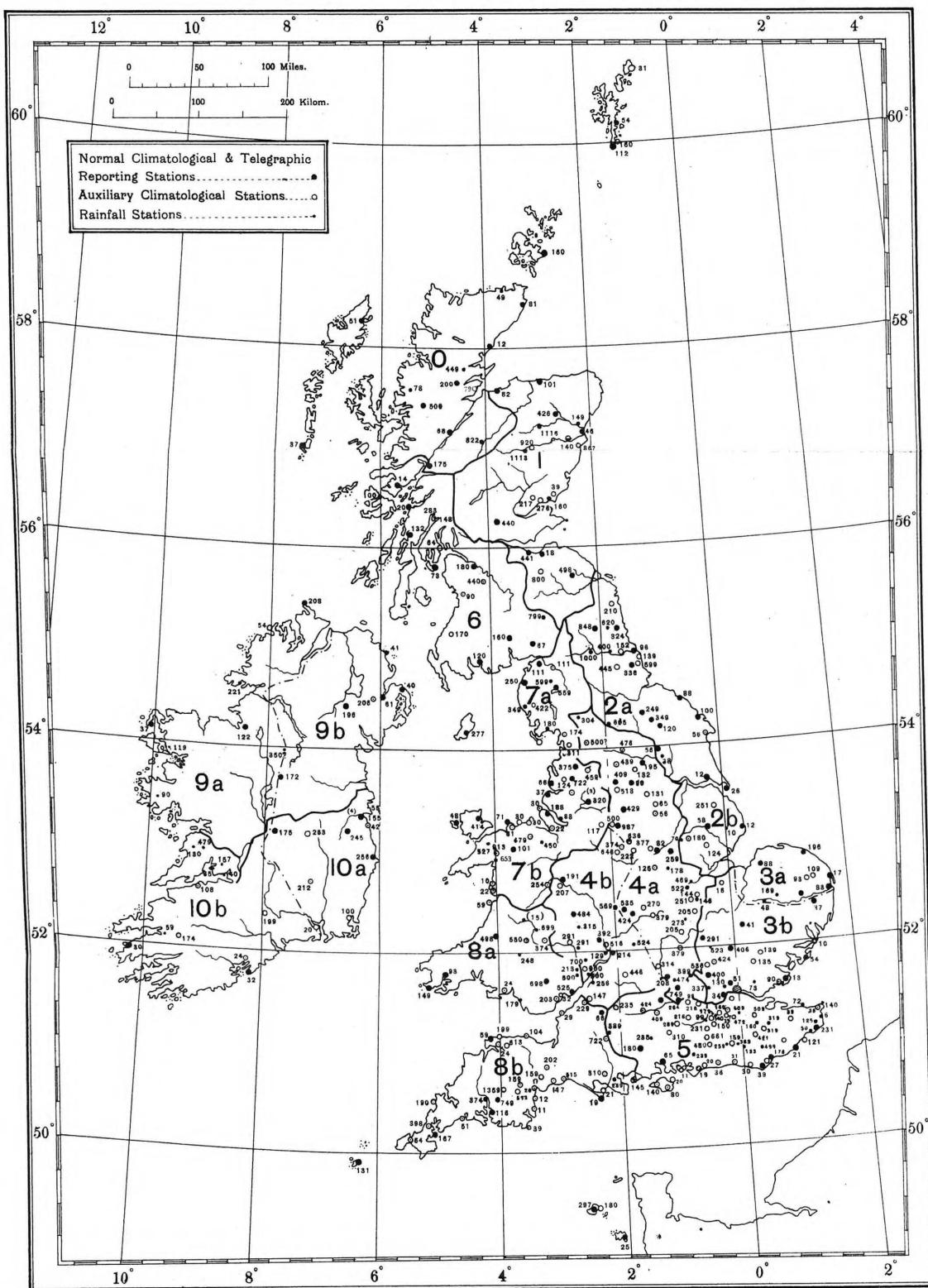
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Fig. 2 between pp 84 and 85.

REPORT OF THE METEOROLOGICAL COMMITTEE 1911-1912.

Map showing Positions of Climatological Stations.



Scale 1:5,000,000.

Ordnance Survey, Southampton, 1912.

The heights of the Stations above Mean Sea Level are inserted against the positions, and will serve to identify the names of the stations as given in the List of Stations on pp. 86 to 107. The Stations in the London District are not all shown. Figures in brackets indicate the number of Rainfall Stations in the vicinity of the dot.

Fig. 3. to face Fig. 2.

REPORT OF THE METEOROLOGICAL COMMITTEE 1911-1912  
Map showing the Positions of the Stations having Self-Recording Instruments.



Scale 1:5,000,000.

The Stations in the London District are not all shown.

Ordnance Survey, Southampton 1912.

## I.—OBSERVATORIES AND STATIONS IN CONNEXION WITH THE METEOROLOGICAL OFFICE.

### CENTRAL OBSERVATORY.

Kew Observatory, Old Deer Park, Richmond, Surrey.

*Superintendent : C. Chree, LL.D., Sc.D., F.R.S., Assistant Director of Observatories.*

Telegraphic Address : "Weather, Richmond, Surrey."

### MAGNETIC OBSERVATORY.

Eskdalemuir Observatory, Langholm.

*Superintendent : G. W. Walker, M.A.*

### WESTERN OBSERVATORY.

Valencia Observatory, Cahirciveen, Ireland.

*Superintendent : J. E. Cullum.*

Kew Observatory was built in 1769 as a private observatory and an astronomical and physical laboratory for King George III. The building was placed at the disposal of the British Association in 1842 and taken over by the Royal Society of London in 1871. The Observatory formed a department of the National Physical Laboratory from 1900 to 1910, and passed under the management of the Meteorological Office from July 1, 1910. Besides the work of a normal meteorological observatory (station of the first order of the international classification), the observatory undertakes experimental and research work in Meteorology, including Atmospheric Electricity, Terrestrial Magnetism and Seismology.

Eskdalemuir Observatory was established by Government to continue the work of recording the magnetic elements which had been carried on at Kew Observatory and had been disturbed by electric tramways. It was opened in 1908. The work of the observatory includes routine work and experimental research in Terrestrial Magnetism, Atmospheric Electricity and Meteorology, as well as the maintenance of several Seismographs.

Valencia Observatory was established by the Meteorological Office in 1867 on Valencia Island. In 1891 it was transferred to Westwood House, Cahirciveen. Besides the work of a First Order Station and a Telegraphic Reporting Station, regular observations of magnetic force are made by arrangement with a committee organised by the late Earl of Rosse.

Other stations in connexion with the Office are shown in the list which follows.

The returns from stations marked "S" are supplied by the Scottish Meteorological Society. Stations marked "S" are in connexion with the Society as well as with the Office.

The list shows the order of classification of the stations and also the publication for which the returns are prepared in the Office.

*Appendix II.—Supply of Information to the Public.*      83

In specifying the order of the station a distinction has been drawn between eye observations and the records of autographic instruments. In general the returns received have formed the basis for the classification, but in cases in which more extensive observations are taken, but not forwarded to the Office, the corresponding symbol has been enclosed in brackets. The list makes no pretence to completeness in respect of these. The symbols used are explained as follows :—

- I. Normal Meteorological Observatory : Station of the First Order.—Continuous records or hourly readings of pressure, temperature, wind, sunshine, and rain, with eye observations of the amount, form, and motion of the clouds, and notes on the weather. The autographic records are checked by frequent eye observations, and hence the symbol "I" has been entered in the table under both "Eye observations" and "Autographic."
- II. Normal Climatological Station : Station of the Second Order.—Daily observations at 9 a.m. [3 p.m.] and 9 p.m. local time (or other accepted combinations of hours) of pressure, temperature (wet and dry-bulb), wind, amount of cloud, and weather, with the daily maximum and minimum of temperature, the daily rainfall, and remarks on the weather. Stations at which the additional observation at 3 p.m. is taken are distinguished by appending a suffix <sub>2</sub> to the symbol, thus—II<sub>2</sub>.
- III. Auxiliary Climatological Station : Station of the Third Order.—Observations similar in kind to those at the Normal Stations, but either (a) less full, (b) taken only once daily, (c) taken at hours other than 9 a.m. and 9 p.m.
- T. Telegraphic Reporting Station.—Daily observations at 7 a.m., 1 p.m., and 6 p.m. G.M.T., similar in general character to those taken at Normal Climatological Stations, reported to the Office each day by telegraph. At some telegraphic stations an additional observation is taken at 9 p.m., and as the combination of hours 7 a.m., 1 p.m., 9 p.m. is accepted as suitable for stations of the Second Order of the international classification, these stations are distinguished by the two symbols T II<sub>2</sub>.
- (Eye Observations.) Additional Rainfall Station.—Daily observations, generally at 9 a.m., of the amount of rainfall.
- Additional Anemograph Station.—Continuous records of wind velocity (force) and, in most cases, also of wind direction.
- B. Additional Barograph Station.—Continuous record of atmospheric pressure.
- E. Additional Thermograph Station.—Continuous record of atmospheric temperature.
- (Autographic.) Additional Autographic Rain-gauge Station.—Continuous record of rainfall.

**H. Hygrograph Station.**—Continuous record of the relative humidity of the air.

**S. Sunshine Station.**—Continuous record of bright sunshine taken with a Campbell-Stokes recorder.

**K. Kite or Balloon Station.**—Records of Temperature, Humidity and Wind in the upper air.

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

D. Published *in extenso* in the "Daily Weather Report."

d. Published in abridged form in the "Daily Weather Report."

**W.** Weekly summary of temperature and rainfall and, if available, of sunshine, published in the "Weekly Weather Report," (British Meteorological and Magnetic Year Book. Part I.).

w. Weekly summary of bright sunshine only, or of grass minimum, or earth temperatures, published in the "Weekly Weather Report," (British Meteorological and Magnetic Year Book. Part I.).

**M.** Full monthly summary in the international form published in the "Monthly Weather Report," (British Meteorological and Magnetic Year Book. Part II.).

m. Abridged monthly summary published in the "Monthly Weather Report," (British Meteorological and Magnetic Year Book. Part II.).

(m.) Monthly totals of bright sunshine only or of rainfall only, published in the "Monthly Weather Report," (British Meteorological and Magnetic Year Book. Part II.).

**S.** Daily values published in "Daily Readings at Meteorological Stations of the First and Second Orders," (British Meteorological and Magnetic Year Book. Part III. Section 1).

**¶.** Daily summary of anemometer results certain of which are published in "Daily Readings at Meteorological Stations of the First and Second Orders," (Part III., Section 1, of the British Meteorological and Magnetic Year Book). Or in the "Geophysical Journal," (Part III., Section 2, of the Year Book).

k. Values for the upper air obtained by kites, pilot balloons and registering balloons, published in the Geophysical Journal, (British Meteorological and Magnetic Year Book. Part III. Section 2).

**H<sub>1</sub>.** Hourly readings of pressure, temperature, wind, rainfall, humidity and sunshine published in the British Meteorological and Magnetic Year Book. Part IV. Section 1.

**H<sub>2</sub>.** Hourly readings of the components of terrestrial magnetic force or diurnal inequalities of magnetic components and electric potential gradient, published in hourly values from autographic records—geophysical Section, (British Meteorological and Magnetic Year Book. Part IV. Section 2).

*Appendix II.—Supply of Information to the Public.* 85

- h. Hourly summaries of pressure, temperature, wind, rainfall, humidity and sunshine for each month and for the whole year, published in hourly values from autographic records—geophysical Section, (British Meteorological and Magnetic Year Book. Part IV. Section 2).
- R. Monthly summary published in the Reports of the Registrar General of Births, Deaths, and Marriages for Ireland.
- r. Weekly summary published in the Reports of the Registrar General for England and Wales, or for Ireland.

**Height above Mean Sea Level.**—The figures given in this column refer in general to the height of the ground on which the rain-gauge stands. At those stations which do not possess a rain-gauge, the figures refer to the height of the particular instrument in use.

The positions of the climatological and rainfall stations may be identified on the map, Fig. 2, p. 84, from the figures which give their heights above Mean Sea Level, as shown in the following list.

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\* \* From a number of stations in the British Isles printed summaries of observations are received. These have been included in the Geographical list of Institutions, &c., which issue publications (Appendix VII. to the Annual Report of the Meteorological Committee).

The following make monthly returns in a form similar to that in which observations are received from the normal or auxiliary climatological stations :—

Bolton.—The Museums and Meteorological Observatory.  
Croydon.—Natural History Society.  
Northampton.—Natural History Society.  
Truro.—Cornwall County Council Sanitary Committee.

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## LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES.

The Counties are grouped in Districts which are numbered as follows :—

- |                     |  |  |  |  |
|---------------------|--|--|--|--|
| 0. Scotland, N.     | { (a) Islands.<br>(b) Mainland.            | 5. England, S.E.                           | 9. Ireland, N.                         | { (a) Western Part.<br>(b) Eastern Part. |
| 1. Scotland, E.     |  | London County.                             | 10. Ireland, S.                        | { (a) Eastern Part.<br>(b) Western Part. |
| 2. England, N.E.    | { (a) Northern Part.<br>(b) Southern Part. | 6. (a) Scotland, W., and (b) Isle of Man.  | 11. English Channel (Western Section). |  |
| 3. England, E.      | { (a) Northern Part.<br>(b) Southern Part. | 7. (a) England, N.W., and (b) North Wales. |  |  |
| 4. Midland Counties | { (a) Eastern Part.<br>(b) Western Part.   | 8. (a) South Wales and (b) England, S.W.   |  |  |

| County and Station.         | Lat.                      | Long. | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |                   | Publication. | Year<br>of last<br>Inspection. | Observer.                            |  |  |  |  |  |  |
|-----------------------------|---------------------------|-------|--------------------------------------|-------------------|-------------------|--------------|--------------------------------|--------------------------------------|--|--|--|--|--|--|
|                             |                           |       |                                      | Eye Obs.          | Autographic.      |              |                                |                                      |  |  |  |  |  |  |
| <b>0. SCOTLAND, NORTH.*</b> |                           |       |                                      |                   |                   |              |                                |                                      |  |  |  |  |  |  |
| (a.) Islands.               |                           |       |                                      |                   |                   |              |                                |                                      |  |  |  |  |  |  |
| Hebrides :—                 | Castlebay, Barra Isle ... | 56 57 | 7 29 W.                              | 37                | T II <sub>3</sub> | B ⊖          | D.W.M.                         | 11 J. Smith, for M.O.                |  |  |  |  |  |  |
|                             | Glendrynoch, Skye ...     | 57 18 | 6 17 W.                              | —                 | •                 | —            | —                              | Rev. H. Harbord.                     |  |  |  |  |  |  |
| Shetlands :—S.              | Stornoway ...             | 58 11 | 6 22 W.                              | 51                | T II <sub>3</sub> | B ⊖          | D.W.M.                         | 11 W. Grant, for M.O.                |  |  |  |  |  |  |
|                             | Baltasound ...            | 60 44 | 0 48 W.                              | 31                | III               | ⊖            | W.m.                           | 11 T. Edmonston Saxby, F.R.C.S., Ed. |  |  |  |  |  |  |
|                             | Dunrossness ...           | 59 51 | 1 17 W.                              | 160               | II                | —            | m.                             | — Rev. W. Fotheringham.              |  |  |  |  |  |  |
|                             | Lerwick ...               | 60 9  | 1 8 W.                               | —                 | —                 | B            | —                              | 09 G. Gray, Harbour Master.          |  |  |  |  |  |  |
|                             | Lerwick ...               | 60 9  | 1 8 W.                               | 54                | T II <sub>3</sub> | B            | D.W.M.                         | 11 Coastguard, for M.O.              |  |  |  |  |  |  |
|                             | Sumburgh Head ...         | 59 51 | 1 17 W.                              | 112               | T II <sub>3</sub> | B            | D.W.M.                         | 10 Rev. W. Brand, for M.O.           |  |  |  |  |  |  |
| Orkney :—                   | Deerness ...              | 58 56 | 2 45 W.                              | 160               | II                | ↙ ⊖          | w.M.S.                         | 11 M. Spence.                        |  |  |  |  |  |  |
| (b.) Mainland.              |                           |       |                                      |                   |                   |              |                                |                                      |  |  |  |  |  |  |
| Caithness :—                | Reay ...                  | 58 34 | 3 48 W.                              | 49                | •                 | —            | D.W.M.                         | — Rev. D Carmichael.                 |  |  |  |  |  |  |
|                             | Wick ...                  | 58 27 | 3 6 W.                               | 81                | T II <sub>4</sub> | B            | —                              | Coastguard, for M.O.                 |  |  |  |  |  |  |

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

|                    |                               |            |         |       |      |      |            |    |  |
|--------------------|-------------------------------|------------|---------|-------|------|------|------------|----|--|
| Cromarty :—        | Strathpeffer Spa              | ...  57 37 | 4 28 W. | 200   | II   | ◎    | W.M.d.     | 11 | N. McLean, for H. W. Kaye, B.A., M.B.                            |
| Inverness :—       | §Fort Augustus                | ...  57 8  | 4 40 W. | 68    | II   | ◎    | W.M.       | 11 | Rev. C. von Dieckhoff, O.S.B. and Rev. Ambrose Geoghegan, O.S.B. |
|                    | §Fort William ...             | ...  56 49 | 5 7 W.  | 175   | II   | —    | W.M.S.     | 11 | W. T. Kilgour.   |
|                    | §Kingussie ...                | ...  57 5  | 4 2 W.  | 822   | II   | —    | M.         | 11 | W. de Watteville, M.D.   |
|                    | Lochboisdale ...              | ...  57 10 | 7 20 W. | —     | —    | —    | —          | —  | Arch. MacLennan.   |
| Ross :—            | Ardross Castle ...            | ...  57 45 | 4 21 W. | 449   | ●    | —    | —          | —  | W. Laing Minty.  |
|                    | S. Fortrose ...               | ...  57 35 | 4 8 W.  | 79    | III  | ○    | m.         | 10 | Archd. Thom, M.A.  |
|                    | §Glencarron ...               | ...  57 30 | 5 14 W. | 500   | II   | —    | W.M.       | 10 | D. D. Munro.   |
|                    | Kinlochewe ...                | ...  57 36 | 5 24 W. | 78    | ●    | —    | —          | —  | A. McLennan, for Hon. W. Peel, M.P.                              |
| Sutherland :—      | §Dunrobin Castle              | ..  57 59  | 3 56 W. | 12    | II   | —    | M.         | 09 | D. Melville, for the Duke of Sutherland, K.G.                    |
| 1. SCOTLAND, EAST. |                               |            |         |       |      |      |            |    |  |
| Aberdeen :—        | Aberdeen Observatory          | 57 10      | 2 6 W.  | 46    | I, T | I, B | D.W.M.S.h. | 11 | Professor C. Niven, F.R.S., and G. A. Clarke, for M.O.           |
|                    | §Balmoral                     | ...  57 2  | 3 12 W. | 920   | III  | —    | W.M.       | 11 | J. Michie, M.V.O., and John M. Troup.                            |
|                    | §Braemar                      | ...  57 0  | 3 24 W. | 1,113 | II   | —    | M.         | —  | A. M. Shirran.   |
|                    | Dyce                          | ...  57 13 | 2 10 W. | 149   | ●    | —    | —          | —  | James E. Crombie, LL.D.  |
|                    | Insch                         | ...  57 20 | 2 37 W. | 426   | II   | ○    | m.         | 11 | J. Bisset.   |
| Banff :—           | §Gordon Castle ...            | ...  57 37 | 3 5 W.  | 101   | II   | ○    | W.M.       | 11 | C. Webster, for the Duke of Richmond and Gordon, K.G.            |
| Berwick :—         | §Marchmont                    | ...  55 44 | 2 25 W. | 498   | II   | ○    | W.M.       | 10 | J. A. Wood, for Sir J. H. Hume Campbell, Bart.                   |
| Clackmannan :—     | No station.                   |            |         |       |      |      |            |    | The Astronomer Royal.  |
| Edinburgh :—       | Edinburgh, Royal Observatory. | 56 57      | 3 12 W. | 441   | —    | —    | —          | —  | D. Drummond and R. M. Hendrie, Post Office, for M.O.             |
|                    | Leith                         | ...  55 58 | 3 10 W. | 18    | T    | B    | D.W.M.     | 11 | The Superintending C.E.  |
| Elgin :—           | No station.                   |            |         |       |      |      |            |    |  |
| Fife :—            | Rosyth (H.M. Dock-yard).      | 56 3       | 3 23 W. | —     | ●    | —    | —          | —  |  |

\* Note.—The parts of this district forming section (a) Islands, include the Shetlands, the Orkneys, and the Hebrides. The latter form part of the counties Inverness and Ross.

The names of Stations added to the list since April, 1911, are printed in clarendon type. Those discontinued during the year are printed in italic type. The positions of the Stations can be identified on the map, Fig. 2, p. 84, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                   | Lat.  | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station, |              | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer.   |
|---------------------------------------|-------|---------|--------------------------------------|-------------------|--------------|--------------|-------------------------------------|---|
|                                       |       |         |                                      | Eye Obs.          | Autographic. |              |                                     |   |
| <b>1. SCOTLAND, EAST—<i>cont.</i></b> |       |         |                                      |                   |              |              |                                     |   |
| Forfar:— S. Balruddery ...            | 56 29 | 3 8 W.  | 276                                  | III               | ○            | w.m.         | 10                                  | G. Davie, for J. Martin White.                      |
| Carnoustie ...                        | 56 30 | 2 42 W. | 39                                   | III               | ○            | m.           | 11                                  | P. Sinclair, C.E.                                   |
| sDundee ...                           | 56 28 | 2 56 W. | 160                                  | II                | —            | M.S.         | 09                                  | J Carnochan.  |
| Haddington:—No station.               |       |         |                                      |                   |              |              |                                     |   |
| Kincardine:— S. Crathes ...           | 57 3  | 2 25 W. | 140                                  | III               | ○ ⊕ B        | w.m.         | 11                                  | J. Smith.   |
| Stonehaven ...                        | 56 58 | 2 13 W. | 786                                  | III               | ○            | d.m.         | 11                                  | J. Hart, for Town Clerk.                            |
| Kinross:— No station.                 |       |         |                                      |                   |              |              |                                     |   |
| Linlithgow:— No station.              |       |         |                                      |                   |              |              |                                     |   |
| Nairn:— Nairn ...                     | 57 36 | 3 52 W. | 82                                   | T                 | ○            | D.W.M.       | 11                                  | Miss Penny, for M.O. and Medical Officer of Health. |
| Peebles:— S. West Linton ...          | 55 45 | 3 4 W.  | 800                                  | III               | ○            | W.M.         | 11                                  | Rev. J. S. Begg.                                    |
| Perth:— sCrieff ...                   | 56 22 | 3 50 W. | 440                                  | II                | —            | W.M.         | 10                                  | George Reid, for Dr. Meikle.                        |
| Forgandenny ...                       | 56 21 | 3 29 W. | 175                                  | —                 | B ●          | —            | —                                   | Miss Frances Wood.                                  |
| Roxburgh:— No station.                |       |         |                                      |                   |              |              |                                     |   |
| Selkirk:— No station.                 |       |         |                                      |                   |              |              |                                     |   |
| <b>2. ENGLAND, NORTH EAST.</b>        |       |         |                                      |                   |              |              |                                     |   |
| (a) Northern Part.                    |       |         |                                      |                   |              |              |                                     |   |
| Durham:— Chopwellwood ...             | 54 55 | 1 47 W. | 445                                  | III               | ○            | m.           | 11                                  | J. F. Annand.                                       |
| Durham ...                            | 54 46 | 1 35 W. | 336                                  | II                | ○            | W.M.         | 09                                  | F. C. H. Carpenter, M.A.                            |
| Ushaw College ...                     | 54 47 | 1 39 W. | 599                                  | III               | —            | m.           | —                                   | Rev. C. Gelderd.                                    |
| Northumberland:— Allan's Green ...    | 54 59 | 2 20 W. | 1,000                                | ●                 | —            | —            | —                                   | J. B. Lowe.   |
| Alnwick Castle ...                    | 55 25 | 1 43 W. | 210                                  | III               | —            | W.m.         | 11                                  | Robert Kyle, for the Duke of Northumberland, K.G.   |
| Bellingham ...                        | 55 13 | 2 18 W. | 848                                  | III               | —            | m.           | 11                                  | Capt. C. Morrison Bell.                             |

## *Appendix II.—Supply of Information to the Public*

|                            |                               |         |         |                 |     |          |        |   |
|----------------------------|-------------------------------|---------|---------|-----------------|-----|----------|--------|---|
| Cockle Park, Morpeth       | 55 13                         | 1 41 W. | 324     | II              | ○   | w.M.S.   | 09     | T. E. W. Dobson and R. Thornton, for the Northumberland County Council. |
| Font Watershed, Dam Site.  | 55 14                         | 1 54 W. | 620     | ●               | —   | —        | —      | H. G. Coventry, C.E., for the Corporation of Tynemouth.                 |
| Heddon-on-the-Wall ...     | 55 0                          | 1 47 W. | 400     | ●               | —   | —        | —      | Rev. W. G. Pringle.   |
| Newcastle (Penshaw).       | 55 0                          | 1 36 W. | —       | —               | ○   | w.       | —      | Mrs. H. M. Pease.   |
| Newcastle-on-Tyne ...      | 54 59                         | 1 36 W. | 152     | III             | ○   | w.m.     | 10     | N. H. Martin, F.R.S.E., F.C.S.  |
| North Shields ...          | 55 0                          | 1 27 W. | 96      | T               | B   | D.W.M.r. | 11     | R. Moat, Post Office, for M.O.  |
| South Shields ...          | 55 0                          | 1 26 W. | —       | —               | ■   | —        | 11     | J. McDonald Manson, for the Tyne Improvement Commission.                |
| Tynemouth ...              | 55 1                          | 1 26 W. | 90      | II <sub>s</sub> | ○   | d.m.     | 09     | J. Edward Burnett.  |
| Yorkshire,<br>N. Riding :— | Ampleforth ...                | 54 12   | 1 6 W.  | 349             | II  | —        | m.     | 09 Rev. T. I. Barton, O.S.B., and Rev. R. C. Hesketh, O.S.B.            |
|                            | Hovingham Hall ...            | 54 10   | 0 59 W. | 120             | ●   | —        | —      | — Eingley Day, for Sir W. H. A. Worsley, Bart.                          |
|                            | Rounton ...                   | 54 24   | 1 18 W. | 249             | II  | —        | W.M.   | 11 J. Hanagan, for Sir Hugh Bell, Bart.                                 |
|                            | M. Scarborough ...            | 54 18   | 0 24 W. | 100             | II  | ○        | d.W.M. | 11 John Knight, M.D., D.P.H., for the Corporation.                      |
|                            | West Witton ...               | 54 11   | 1 54 W. | 605             | III | —        | W.m.   | — J. B. Espiner.  |
|                            | Whitby ...                    | 54 29   | 0 37 W. | 88              | II  | ○        | M.     | 10 Thos. Newbitt, for the Literary and Philosophical Society.           |
|                            | York, Deighton Grove          | 53 54   | 1 3 W.  | 38              | ●   | —        | —      | 05 Miss M. L. Whitehead.  |
|                            | „ The Museum ...              | 53 57   | 1 5 W.  | 56              | II  | —        | W.M.r. | 10 Oxley Grabham, M.A., for the Yorkshire Philosophical Society.        |
|                            | „ Bootham ...                 | 53 57   | 1 5 W.  | 105             | —   | ○        |        | 07 Hugh Richardson, M.A.  |
| Yorkshire,<br>E. Riding :— | Bridlington (Grammar School). | 54 5    | 0 13 W. | 56              | III | (B) ○    | —      | 08 A. Thornton, M.A.  |
|                            | Hull ...                      | 53 45   | 0 16 W. | 12              | II  | ○        | M.r.w. | 11 H. B. Witty, for the Corporation.                                    |
|                            | Spurn Head ...                | 53 34   | 0 7 E.  | 26              | T   | B        |        | 11 Principal Lightkeeper, for M.O.                                      |

The names of Stations added to the list since April, 1911, are printed in clarendon type. Those discontinued during the year are printed in italic type. The positions of the Stations can be identified on the map, Fig. 2, p. 84, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                        | Lat.  | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspection. | Observer.  |  |  |  |  |  |  |
|--|-------|---------|--------------------------------------|-------------------|--------------|--------------|--------------------------------|--|--|--|--|--|--|--|
|  |       |         |                                      | Eye Obs.          | Autographic. |              |                                |  |  |  |  |  |  |  |
| <b>2. ENGLAND, NORTH EAST—<i>cont.</i></b> |       |         |                                      |                   |              |              |                                |  |  |  |  |  |  |  |
| (b) <i>Southern Part.</i>                  |       |         |                                      |                   |              |              |                                |  |  |  |  |  |  |  |
| Lincolnshire :—Claypole ...                | 53 2  | 0 46 W. | 70                                   | ●                 | —            | —            | —                              | Rev. F. Hamilton.  |  |  |  |  |  |  |
| Fulbeck ...                                | 53 3  | 0 37 W. | 180                                  | III               | B ⊙          | W.m.         | 10                             | Rev. Vere F. Willson, M.A., and<br>W. V. R. Fane.            |  |  |  |  |  |  |
| Lincoln... ...                             | 53 14 | 0 33 W. | 58                                   | III               | —            | W.M.         | 11                             | W. Barr, for the Corporation.                                |  |  |  |  |  |  |
| Marcham-le-Fen ...                         | 53 8  | 0 5 W.  | 10                                   | ●                 | —            | —            | 01                             | Mrs. G. L. Kime.   |  |  |  |  |  |  |
| Rauceby Hall ...                           | 53 0  | 0 29 W. | 124                                  | III               | ○            | w.m.         | 09                             | J. Hope, for the late General<br>Sir M. Willson, K.C.B.      |  |  |  |  |  |  |
| Skegness ...                               | 53 9  | 0 21 E. | 12                                   | III               | ○            | d.w.M.       | 10                             | S. Coetmore Jones, for the Dis-<br>trict Council.            |  |  |  |  |  |  |
| Temple Bruer ...                           | 53 4  | 0 30 W. | ?                                    | ●                 | —            | —            | 03                             | Miss Alice S. Morley.  |  |  |  |  |  |  |
| <b>3. ENGLAND, EAST.</b>                   |       |         |                                      |                   |              |              |                                |  |  |  |  |  |  |  |
| (a) <i>Northern Part.</i>                  |       |         |                                      |                   |              |              |                                |  |  |  |  |  |  |  |
| Norfolk :—Cromer ...                       | 52 56 | 1 17 E. | 196                                  | II                | ○            | W.M.         | 10                             | W. H. Archer, for Urban District<br>Council.                 |  |  |  |  |  |  |
| Geldeston ...                              | 52 28 | 1 31 E. | 37                                   | II                | ○(B Θ)       | W.M.         | 09                             | E. T. Dowson.  |  |  |  |  |  |  |
| Hillington ...                             | 52 48 | 0 33 E. | 88                                   | II                | ○            | W.M.         | 11                             | The late Rev. H. E. B. Ffolkes, M.A.                         |  |  |  |  |  |  |
| Norwich ...                                | 52 37 | 1 17 E. | 93                                   | III               | —            | W.r.m.       | 11                             | A. W. Preston.   |  |  |  |  |  |  |
| Norwich (Southwell)                        | 52 42 | 1 20 E. | 109                                  | III               | ○            | M.           | —                              | J. H. Willis.  |  |  |  |  |  |  |
| Thetford ...                               | 52 25 | 0 45 E. | 169                                  | ●                 | —            | —            | —                              | E. S. Greenwood, for Town Council.                           |  |  |  |  |  |  |
| Yarmouth ...                               | 52 37 | 1 43 E. | 17                                   | T, II,            | B ↗ ○        | D.W.M.       | 11                             | Coastguard, for M.O. and for<br>Corporation.                 |  |  |  |  |  |  |
| " Gorleston ...                            | 52 35 | 1 43 E. | 10*                                  | —                 | —            | —            | 11}                            |  |  |  |  |  |  |  |
| (b) <i>Southern Part.</i>                  |       |         |                                      |                   |              |              |                                |  |  |  |  |  |  |  |
| Bedford :—Aspley Guise ...                 | 52 1  | 0 38 W. | 410                                  | —                 | ○            | m.           | —                              | Mrs. Dymond.   |  |  |  |  |  |  |
| Woburn, Ridgmont ...                       | 52 1  | 0 36 W. | 291                                  | II                | —            | M.           | 11                             | H. M. Freear, F.C.S., for the Royal<br>Agricultural Society. |  |  |  |  |  |  |
| Cambridge :—Cambridge Bot. Garden          | 52 12 | 0 8 E.  | 41                                   | II                | ○            | W.M.S.       | 10                             | R. Irwin Lynch, M.A.   |  |  |  |  |  |  |

|                             |                     |                  |         |        |        |       |        |    |   |               |
|-----------------------------|---------------------|------------------|---------|--------|--------|-------|--------|----|---|---------------|
|                             |                     | Newnham<br>Coll. | 52 13   | 0 5 E. | —      | III   | H      | —  | 10  | Miss Stephen. |
| Essex :—                    | Clacton-on-Sea ...  | ... 51 47        | 1 9 E.  | 54     | T, II, | ○ B   | D.W.M. | 11 | A. W. Shadick, for Urban Dis-<br>trict Council.           |               |
|                             | Chelmsford ...      | ... 51 45        | 0 28 E. | 135    | III    | —     | m.     | —  | Dr. Thresh.   |               |
|                             | Halstead ...        | ... 51 57        | 0 38 E. | 139    | III    | —     | m.     | —  | E. T. Adams, F.R.A.S.                                     |               |
|                             | Shoeburyness ...    | ... 51 32        | 0 47 E. | 13†    | III    | —     | W.m.   | 11 | The Superintendent of Experi-<br>ments.                   |               |
|                             | Southend-on-Sea ... | ... 51 32        | 0 43 E. | 90     | III    | ○     | w.m.   | 10 | E. J. Elford, for the Corporation.                        |               |
|                             | Waterworks          | 51 32            | 0 43 E. | 110    | ● (8)  | —     | —      | 10 | E. C. Bilham.   |               |
|                             | South "Hanningfield | 51 39            | 0 31 E. | —      | ●      | —     | —      | —  | Walter Hill.  |               |
|                             | Stifford ...        | ... 51 30        | 0 18 E. | 73     | ●      | —     | —      | —  | Miss A. L. Scott.   |               |
|                             | Bennington ...      | ... 51 54        | 0 5 W.  | 406    | II     | —     | M.     | 09 | The late Rev. J. Dunne Parker,<br>LL.D., and Miss Parker. |               |
| Hertford :—                 | Berkhamsted ...     | ... 51 46        | 0 34 W. | 400    | II     | ○ (I) | M.     | 09 | E. Mawley.  |               |
|                             | Hemel Hempstead ... | ... 51 46        | 0 27 W. | 536    | III    | —     | m.     | —  | Elliott Kitchener, M.A.                                   |               |
|                             | Offley Vicarage ... | ... 51 56        | 0 21 W. | 528    | ●      | —     | —      | —  | Rev. E. P. Gatty.   |               |
|                             | Rothamsted ...      | ... 51 48        | 0 22 W. | 424    | III    | ○     | W.m.   | 09 | The Director, Lawes Agricul-<br>tural Trust.              |               |
| Huntingdon :—               | No station.         | —                | —       | —      | —      | —     | —      | —  | —   |               |
| Middlesex :—                | Harefield ...       | ... 51 36        | 0 29 W. | 337    | ●      | —     | —      | —  | G. Eland.   |               |
|                             | Wembley ...         | ... 51 33        | 0 17 W. | 130    | ●      | —     | —      | —  | A. B. Johnson.  |               |
| Suffolk :—                  | Brandon ...         | ... 52 27        | 0 37 E. | 48?    | ●      | —     | —      | —  | Lt.-Col. B. Spragge, D.S.O.                               |               |
|                             | Felixstowe ...      | ... 51 58        | 1 22 E. | 10     | III    | ○     | d.W.m. | 10 | Montague Humphrey, for the<br>District Council.           |               |
|                             | Lowestoft ...       | ... 52 29        | 1 45 E. | 83     | II     | ○     | w.d.M. | 11 | C. W. Edwards, for the Corporation.                       |               |
| <b>4. MIDLAND COUNTIES.</b> |                     |                  |         |        |        |       |        |    |   |               |
| (a) Eastern Part.           |                     |                  |         |        |        |       |        |    |   |               |
| Buckingham :—               | Beaconsfield ...    | ... 51 36        | 0 38 W. | 360    | ●      | —     | —      | —  | C. T. Marcon, M.A.  |               |
|                             | Butler's Cross ...  | ... 51 46        | 0 47 W. | 399    | ●      | —     | —      | —  | G. Eland.   |               |
|                             | High Wycombe ...    | ... 51 37        | 0 45 W. | —      | III    | —     | —      | —  | R. O. Matthews.   |               |
|                             | Winslow ...         | ... 51 57        | 0 53 W. | 379    | III    | —     | m.     | 10 | R. A. Easton.   |               |

The names of Stations added to the list since April, 1911, are printed in clarendon type. Those discontinued during the year are printed in italic type. The positions of the Stations can be identified on the map, Fig. 2, p. 84, from the figures which give their heights above Mean Sea Level.

\* Head of Anemometer 52 ft. above M.S.L.

+ Head of Anemometer 103 ft. above M.S.L.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                     | Lat.                    | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |                    | Publication. | Year<br>of last<br>Inspection. | Observer. |   |  |  |  |  |  |
|---|-------------------------|---------|--------------------------------------|-------------------|--------------------|--------------|--------------------------------|-----------|---|--|--|--|--|--|
|   |                         |         |                                      | Eye Obs.          | Autographic.       |              |                                |           |   |  |  |  |  |  |
| <b>4. MIDLAND COUNTIES—<i>cont.</i></b> |                         |         |                                      |                   |                    |              |                                |           |   |  |  |  |  |  |
| (a) <i>Eastern Part</i> — <i>cont.</i>  |                         |         |                                      |                   |                    |              |                                |           |   |  |  |  |  |  |
| Derby:—                                 | Belper ... ... ...      | 53° 1'  | 1° 29' W.                            | 222               | III                | —            | m.                             | —         | W. W. Tunnicliffe, B.Sc., F.C.S.  |  |  |  |  |  |
|   | Belper (Quarry Bank).   | 53° 2'  | 1° 29 W.                             | 280               | II                 | —            | m.                             | —         | John Hunter.  |  |  |  |  |  |
|   | Buxton ... ... ...      | 53° 16' | 1° 55 W.                             | 987               | II <sub>a</sub>    | ○(B)         | d.W.M.                         | 11        | W. Pilkington.  |  |  |  |  |  |
|   | Chatsworth ... ...      | 53° 14' | 1° 37 W.                             | —                 | III                | Bθ           | —                              | 02        | J. P. Cockerell, for the Duke of Devonshire, K.G.                         |  |  |  |  |  |
|   | Derby ... ... ...       | 52° 55' | 1° 29 W.                             | 208               | —                  | B            | —                              | —         | John Stretton.  |  |  |  |  |  |
|   | Matlock ... ...         | 53° 7'  | 1° 30 W.                             | 636               | III                | ○○           | m.                             | —         | J. D. Evans.  |  |  |  |  |  |
| Leicester:—                             | Belvoir Castle ...      | 52° 54' | 0° 47 W.                             | 259               | II                 | —            | M.                             | 09        | W. H. Divers, for the Duke of Rutland, K.G.                               |  |  |  |  |  |
|   | Syston ... ... ...      | 52° 43' | 1° 5 W.                              | 178               | ●                  | —            | —                              | 96        | S. K. Daniels.  |  |  |  |  |  |
| Northampton:—                           | Great Billing ... ...   | 52° 16' | 0° 50 W.                             | 273               | ●                  | —            | —                              | —         | Rev. G. H. Mullins, M.A.  |  |  |  |  |  |
|   | Oundle (The School) ... | 52° 29' | 0° 28 W.                             | 144               | III                | ○            | —                              | 04        | F. W. Sanderson, M.A., Head-master.                                       |  |  |  |  |  |
|   | " ... ...               | 52° 29' | 0° 28 W.                             | 146               | ●                  | —            | —                              | 04        | N. E. Dixon, C.E.   |  |  |  |  |  |
|   | Peterborough (Eye)      | 52° 36' | 0° 11 W.                             | —                 | III                | —            | m.                             | —         | S. W. Egan.   |  |  |  |  |  |
|   | Raunds ... ... ...      | 52° 22' | 0° 33 W.                             | 205               | III                | —            | W.m.                           | 11        | Leon G. H. Lee.   |  |  |  |  |  |
|   | Thrapston ... ...       | 52° 22' | 0° 35 W.                             | 251               | III                | —            | m.                             | —         | E. N. Plevins.  |  |  |  |  |  |
| Nottingham:—                            | Bawtry, Hesley Hall ... | 53° 27' | 1° 4 W.                              | 65                | III                | ○ —          | W.m.                           | 09        | B. I. Whitaker, J.P.  |  |  |  |  |  |
|   | Kingston-on-Soar ...    | 52° 51' | 1° 14 W.                             | 125               | III                | —            | m.                             | 11        | Fred Wakerly.   |  |  |  |  |  |
|   | Nottingham ... ...      | 52° 56' | 1° 9 W.                              | 82                | T, II <sub>a</sub> | ○(B)         | D.W.M.r.                       | 11        | Arthur Brown, M.Inst.C.E., and Philip Boobyer, M.D., for the Corporation. |  |  |  |  |  |
|   | Strelley ... ... ...    | 52° 58' | 1° 15 W.                             | 377               | III                | —            | m.                             | —         | T. L. K. Edge.  |  |  |  |  |  |
| Oxford:—                                | Worksop (Hodsock) ...   | 53° 22' | 1° 5 W.                              | 56                | III                | ○(B)         | w.M.                           | 11        | H. Mellish, J.P.  |  |  |  |  |  |
|   | Oxford ... ... ...      | 51° 46' | 1° 16 W.                             | 208               | [I] T              | ○[I]         | D.W.M.                         | 11        | The Radcliffe Observer.   |  |  |  |  |  |
|   | Pyrton Hill ... ...     | 51° 38' | 1° 1 W.                              | 500               | —                  | K B          | k.                             | —         | W. H. Dines, F.R.S., for M.O.   |  |  |  |  |  |

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

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|                            |                          |       |         |      |                 |       |          |    |   |
|----------------------------|--------------------------|-------|---------|------|-----------------|-------|----------|----|---|
|                            | Watlington (Howe Combe). | 51 38 | 1 0 W.  | 474  | ●               | I     | —        | —  | A. H. Pawson  |
| Rutland :—                 | Ridlington ...           | 52 37 | 0 45 W. | 522  | ●               | —     | —        | —  | N. W. Wortley.  |
|                            | Uppingham ...            | 52 38 | 0 43 W. | 469  | III             | —     | —        | —  | E. Hunter.  |
| Warwick :—                 | Coventry ...             | 52 25 | 1 30 W. | 270  | III             | (B) ⊙ | M.       | 10 | E. Hugh Snell, M.D., for the Corporation.                   |
|                            | Rugby School ...         | 52 22 | 1 15 W. | 379  | II              | (B)   | m.       | 11 | Rev. D. E. Shorto, M.A.                                     |
|                            | Birmingham, Edgbaston    | 52 28 | 1 56 W. | 535  | II              | ⊙     | d.W.M.r. | 10 | Alfred Cresswell, for the Midland Institute.                |
|                            | „ Hagley Road            | 52 28 | 1 58 W. | 612  | ●               | —     | —        | —  |   |
|                            | Water Dept. :—           |       |         |      |                 |       |          |    |   |
|                            | Frankley ...             | 52 25 | 1 59 W. | 569  | ●               | —     | —        | —  |   |
|                            | Whitacre ...             | 52 31 | 1 40 W. | 268  | ●               | —     | —        | —  |   |
|                            | Witton ...               | 52 32 | 1 52 W. | 344  | ●               | —     | —        | —  |   |
| Yorkshire,<br>W. Riding :— | Bradford ...             | 53 49 | 1 46 W. | 439  | III             | ○○    | m.r.     | 09 | H. Lander for the Corporation.                              |
|                            | Garforth ...             | 53 48 | 1 22 W. | 195  | II              | ○○    | M.       | 09 | Prof. Seton, B.Sc., for the University of Leeds.            |
|                            | Giggleswick ...          | 54 4  | 2 17 W. | 500? | III             | (B) ○ | —        | 05 | P. Haswell, B.A.  |
|                            | Harrogate ...            | 54 0  | 1 33 W. | 476  | III             | ○     | d.W.m.   | 11 | C. E. Rivers, for the Corporation.                          |
|                            | Huddersfield ...         | 53 39 | 1 47 W. | 409  | II <sub>s</sub> | ○(●)  | M.r.     | 09 | J. Firth, Registrar, for the Corporation.                   |
|                            | Leeds ...                | 53 48 | 1 33 W. | 132  | III             | (B)   | —        | 08 | H. Crowther, for the Leeds Philosophical Society.           |
|                            | Meltham ...              | 53 36 | 1 50 W. | 513  | III             | —     | m.       | —  | C. L. Brook.  |
|                            | Sheffield ...            | 53 23 | 1 29 W. | 429  | II              | ○     | w.M.     | 11 | E. Howarth, F.R.A.S.  |
|                            | Wakefield ...            | 53 41 | 1 30 W. | 96   | II              | —     | M.       | 11 | Alex. French, M.R.C.S., L.R.C.P.                            |
|                            | (b) Western Part.        |       |         |      |                 |       |          |    |   |
| Gloucester :—              | Cheltenham ...           | 51 54 | 2 3 W.  | 214  | II              | ○○    | M.       | 09 | A. C. Saxby, for the Corporation.                           |
|                            | Cirencester ...          | 51 43 | 1 57 W. | 446  | III             | ○○    | W.m.     | 11 | Prof. M. Kershaw, B.A., for the Royal Agricultural College. |
|                            | Dursley ...              | 51 41 | 2 21 W. | 256  | ●               | —     | —        | 96 | E. Fryer Smith.   |

The names of Stations added to the list since April, 1911, are printed in clarendon type. Those discontinued during the year are printed in italic type. The positions of the Stations can be identified on the map, Fig. 2, p. 84, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                     | Lat.                               | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspec-<br>tion | Observer.   |  |  |  |  |  |  |
|---|------------------------------------|---------|--------------------------------------|-------------------|--------------|--------------|------------------------------------|---|--|--|--|--|--|--|
|   |                                    |         |                                      | Eye Obs.          | Autographic. |              |                                    |   |  |  |  |  |  |  |
| <b>4. MIDLAND COUNTIES—<i>cont.</i></b> |                                    |         |                                      |                   |              |              |                                    |   |  |  |  |  |  |  |
| (b) <i>Western Part—cont.</i>           |                                    |         |                                      |                   |              |              |                                    |   |  |  |  |  |  |  |
| Gloucester— <i>cont.</i>                | °                                  | °       |                                      |                   |              |              |                                    |   |  |  |  |  |  |  |
| Forest of Dean :—                       |                                    |         |                                      |                   |              |              |                                    |   |  |  |  |  |  |  |
| Blakeney Hill                           | 51 46                              | 2 30 W. | 500                                  | ●                 | —            | —            | —                                  | John Tyler  |  |  |  |  |  |  |
| Braceland                               | 51 49                              | 2 38 W. | 500                                  | ●                 | —            | —            | —                                  | E. P. Popert  |  |  |  |  |  |  |
| Edgehills Lodge                         | 51 51                              | 2 29 W. | 700                                  | ●                 | —            | —            | —                                  | Campbell Anderson } for V. F.                               |  |  |  |  |  |  |
| Ruardean Hill                           | 51 50                              | 2 32 W. | 900                                  | ●                 | —            | m.           | 05                                 | John Morris } Leese.  |  |  |  |  |  |  |
| Whitemead Park                          | 51 46                              | 2 34 W. | 200                                  | ●                 | —            | m.           | 05                                 | William Morris  |  |  |  |  |  |  |
| Worcester Lodge                         | 51 48                              | 2 35 W. | 700                                  | ●                 | —            | —            | —                                  | William Morris  |  |  |  |  |  |  |
| Hereford :—                             | Hidcote                            | 52 5    | 1 46 W.                              | 524               | ●            | —            | 97                                 | Major W. Wright, R.A.                                       |  |  |  |  |  |  |
|   | Bromyard                           | 52 11   | 2 30 W.                              | 392               | II           | —            | 11                                 | T. V. Philpott, M.A.  |  |  |  |  |  |  |
|   | Hereford (Belmont)                 | 52 5    | 2 45 W.                              | 291               | III          | —            | 10                                 | The Prior and Rev. J. C. Maddox,<br>O.S.B.                  |  |  |  |  |  |  |
| Shropshire :—                           | Ross                               | 51 55   | 2 34 W.                              | 213               | III          | —            | —                                  | H. Southall.  |  |  |  |  |  |  |
|   | Shrewsbury                         | 52 43   | 2 45 W.                              | 191               | II           | —            | 09                                 | Capt. C. S. Reid, R.E.                                      |  |  |  |  |  |  |
|   | Wellington                         | 52 42   | 2 45 W.                              | 207               | III          | —            | —                                  | J. W. Nowell.   |  |  |  |  |  |  |
| Somerset :—                             | Wistanstow                         | 52 28   | 2 50 W.                              | 484               | II           | —            | 11                                 | Rev. W. M. D. La Touche, B.A.                               |  |  |  |  |  |  |
|   | Bath                               | 51 23   | 2 21 W.                              | 66                | T            | B  ○         | D.W.M.                             | W. H. Symons, M.D., for the<br>Corporation.                 |  |  |  |  |  |  |
| Stafford :—                             | Cheadle (Tean)                     | 52 58   | 1 57 W.                              | 646               | III          | —            | W.m.                               | 11  |  |  |  |  |  |  |
|   | Beckford                           | 51 58   | 2 10 W.                              | 129               | ●            | —            | —                                  | Col. B. H. Philips.   |  |  |  |  |  |  |
|   | Mayfield                           | 53 0    | 1 46 W.                              | 374               | III          | (B ●  ○)     | m.                                 | Capt. H. Ashton Case.                                       |  |  |  |  |  |  |
| Worcester :—                            | Birmingham, Sparkhill              | 52 27   | 1 52 W.                              | 424               | III          | —            | m.                                 | 09  |  |  |  |  |  |  |
|   | Malvern                            | 52 8    | 2 18 W.                              | 516               | III          | ○            | m.                                 | G. C. Lawson.   |  |  |  |  |  |  |
|   | Rochford                           | 52 18   | 2 36 W.                              | 315               | ●            | B            | m.                                 | 10  |  |  |  |  |  |  |
|   |                                    |         |                                      |                   |              |              | —                                  | D. H. Owen.   |  |  |  |  |  |  |
|   |                                    |         |                                      |                   |              |              | —                                  | A. Mander, F.C.S.   |  |  |  |  |  |  |
|   |                                    |         |                                      |                   |              |              | 01                                 | Rev. John Tomson.   |  |  |  |  |  |  |
| <b>5. ENGLAND, SOUTH-EAST.</b>          |                                    |         |                                      |                   |              |              |                                    |   |  |  |  |  |  |  |
| Berkshire :—                            | Bucklebury Place                   | 51 26   | 1 24 W.                              | 409               | III          | —            | m.                                 | 11  |  |  |  |  |  |  |
|   | Reading (Leighton Park<br>School). | 51 26   | 0 57 W.                              | 264               | II           | ○            | M.                                 | 10  |  |  |  |  |  |  |
|   |                                    |         |                                      |                   |              |              |                                    | J. W. Harris, for A. W. Sutton.<br>C. I. Evans, Headmaster. |  |  |  |  |  |  |

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

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|                        |                                 |       |         |     |     |       |        |    |   |
|------------------------|---------------------------------|-------|---------|-----|-----|-------|--------|----|---|
| <b>Berkshire—cont.</b> |                                 |       |         |     |     |       |        |    |   |
|                        | Wantage (King Alfred's School). | 51 53 | 1 26 W. | 314 | III | —     | —      | —  | J. H. Scott.  |
|                        | Wokingham ...                   | 51 23 | 0 48 W. | 216 | III | B     | m.     | 10 | Medical Superintendent of Sanatorium.                               |
| <b>Hampshire :—</b>    | Aldershot ...                   | 51 15 | 0 46 W. | 231 | III | —     | m.     | —  | G. W. Routley, M.D.   |
|                        | Basingstoke ...                 | 51 16 | 1 6 W.  | 289 | III | —     | m.     | 10 | A. M. Pitkin, F.R.G.S.  |
|                        | Bournemouth ...                 | 50 43 | 1 53 W. | 145 | III | —     | d.w.m. | 11 | C. Dales, for Town Council.   |
|                        | Grayshott ...                   | 51 7  | 0 46 W. | 661 | III | —     | M.     | —  | Mrs. Charlotte Lyndon.  |
|                        | Petersfield (Ditcham Park).     | 51 0  | 0 57 W. | 550 | —   | K     | k.     | —  | C. J. P. Cave, M.A.   |
|                        | Portsmouth ...                  | 50 48 | 1 6 W.  | 11  | III | —     | r.w.M. | 10 | A. Mearns Fraser, M.D., for the Corporation.                        |
|                        | Sandown ...                     | 50 48 | 1 8 W.  | 20  | III | ◎ (B) | m.     | —  | G. E. Gilchrist, for the Sandown Advancement Board.                 |
|                        | Southampton ...                 | 50 55 | 1 24 W. | 65  | II  | ○     | W.M.S. | 09 | A. Vaughan, for Director-General of Ordnance Survey.                |
|                        | Southsea ...                    | 50 47 | 1 6 W.  | —   | —   | ○     | d.     | 10 | A. Mearns Fraser, M.D., for the Corporation of Portsmouth.          |
| <b>Kent :—</b>         | Stockbridge (Ashley) ...        | 51 5  | 1 27 W. | 235 | ●   | B     | —      | —  | Legh S. Powell.   |
|                        | Swarraton ...                   | 51 8  | 1 11 W. | 310 | III | —     | W.m.   | 09 | Rev. W. L. W. Eyre, M.A.  |
|                        | Totland Bay ...                 | 50 41 | 1 33 W. | 140 | III | ○     | m.     | 10 | J. Dover, M.A.  |
|                        | Ventnor ...                     | 50 36 | 1 13 W. | 80  | III | ○     | W.M.   | 11 | Miss M. Gibson, for Royal National Hospital for Consumption.        |
|                        | Broadstairs ...                 | 51 21 | 1 26 E. | 140 | ●   | ○     | (m.)   | —  | Howard Hurd, C.E., and Rev. H. C. V. Snowden, for District Council. |
|                        | Canterbury ...                  | 51 17 | 1 5 E.  | 39  | III | —     | w.     | 05 | A. Lander.  |
|                        | Deal ...                        | 51 13 | 1 24 E. | 23  | III | —     | d.     | 10 | S. Miller.  |
|                        | Dover ...                       | 51 7  | 1 18 E. | 198 | ●   | —     | D.M.   | 96 | W. C. Hawke, C.E., for the Corporation of Dover.                    |
|                        | Dover ...                       | 51 7  | 1 19 E. | 231 | T   | —     | —      | 11 | —   |
|                        | Kearsney, Chilton Farm          | 51 8  | 1 17 E. | 125 | ●   | —     | D.W.M. | 11 | Lightkeeper, for M.O.   |
|                        | Dungeness ...                   | 50 55 | 0 58 E. | 21  | T   | B     | d.m.   | 11 | The Borough Engineer, for the Corporation.                          |
|                        | Folkestone ...                  | 51 5  | 1 11 E. | 121 | III | ○ (●) | —      | —  | —   |

The names of Stations added to the list since April, 1911, are printed in clarendon type. Those discontinued during the year are printed in italic type. The positions of the stations can be identified on the map, Fig. 2, p. 84, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                        | Lat.               | Long. | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer.  |
|--|--------------------|-------|--------------------------------------|-------------------|--------------|--------------|-------------------------------------|--|
|  |                    |       |                                      | Eye Obs.          | Autographic. |              |                                     |  |
| <b>5. ENGLAND, SOUTH-EAST—<i>cont.</i></b> |                    |       |                                      |                   |              |              |                                     |  |
| Kent— <i>cont.</i>                         | Hildenborough      | 51 13 | 0 15 E.                              | 160               | ●            | —            | —                                   | Charles H. Scott.  |
|  | Littlestone-on-Sea | 50 59 | 0 59 E.                              | —                 | III          | d.w.(m.)     | 05                                  | H. T. Tubbs.   |
|  | Margate            | 51 24 | 1 24 E.                              | 35                | III          | d.W.m.       | 11                                  | J. Stokes, J.P., for the Corporation.                    |
|  | Matfield           | 51 9  | 0 22 E.                              | 319               | III          | m.           | 10                                  | D'Arcy Reeve.  |
|  | Ramsgate           | 51 20 | 1 25 E.                              | —                 | —            | d.w.(m.)     | 08                                  | T. G. Taylor, C.E., for the Corporation.                 |
| Surrey :—                                  | Sandgate           | 51 4  | 1 9 E.                               | 50                | ●            | —            | 99                                  | Chas. J. Conquest.                                       |
|  | Sandwich           | 51 17 | 1 20 E.                              | 6                 | ●            | —            | 03                                  | Royal St. George's Golf Club.                            |
|  | Sevenoaks          | 51 16 | 0 12 E.                              | 509               | III          | m.           | 11                                  | W. Tattersall.   |
|  | Tankerton          | 51 22 | 0 2 E.                               | 72                | ●            | —            | —                                   | F. Gaster.   |
|  | Tonbridge          | 51 12 | 0 17 E.                              | 319               | ●            | —            | —                                   | J. Waley Cohen.  |
|  | Tunbridge Wells    | 51 8  | 0 16 E.                              | 421               | III          | W.m.         | 09                                  | F. G. Smart, M.B.  |
|  | Croydon            | 51 22 | 0 4 W.                               | 472               | III          | m.           | —                                   | Borough Engineer.  |
|  | Epsom              | 51 20 | 0 17 W.                              | 160               | III          | m.           | —                                   | S. C. Russell.   |
|  | Newdigate          | 51 0  | 0 17 W.                              | 259               | ●            | —            | —                                   | R. J. Wallis.  |
|  | New Malden         | 51 24 | 0 15 W.                              | 39                | III          | (B)          | —                                   | W. J. Carter.  |
|  | Send               | 51 15 | 0 32 W.                              | 99                | ●            | (B)          | —                                   | J. W. G. Bond.   |
|  | Wallington         | 51 22 | 0 9 W.                               | 140               | III          | —            | —                                   | F. C. Bayard.  |
|  | Warlingham         | 51 18 | 0 3 W.                               | 609               | ●            | —            | —                                   | R. H. Curtis.  |
|  | Wisley             | 51 17 | 0 26 W.                              | 150               | III          | θ ○          | 09                                  | The Superintendent, for the Royal Horticultural Society. |
| Sussex :—                                  | Woking             | 51 19 | 0 37 W.                              | 179               | III          | —            | —                                   | G. C. H. Simmonds.                                       |
|  | Bexhill-on-Sea     | 50 50 | 0 33 E.                              | 27                | II           | ○            | 11                                  | G. Brisley, M.P.S., for the Corporation.                 |
|  | Bognor             | 50 47 | 0 40 W.                              | 20                | III          | ○            | 10                                  | A. G. Thompson, for the Bognor Climatological Society.   |
|  | Brighton           | 50 49 | 0 8 W.                               | 31                | III          | θ ○          | 09                                  | H. Heasman, for the Medical Officer of Health.           |
|  | Brighton (Preston) | 50 51 | 0 8 W.                               | 301               | II           | —            | —                                   | G. Hamlin.   |
|  | Brighton           | 50 49 | 0 8 W.                               | 380               | —            | K            | —                                   | S. H. R. Salmon.   |

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|                  |                    |     |     |       |         |     |     |    |          |    |  |
|------------------|--------------------|-----|-----|-------|---------|-----|-----|----|----------|----|--|
|                  | Cuckfield          | ... | ... | 51 1  | 0 9 W.  | 389 | ●   | —  | d.w.M.   | 97 | E. Gosden.   |
|                  | Eastbourne         | ... | ... | 50 46 | 0 17 E. | 39  | II  | ○  | —        | 11 | S. R. Henderson, for the Medical Officer of Health.      |
|                  | Hastings Cemetery  | ... | ... | 50 52 | 0 34 E. | 499 | ●   | —  | —        | —  | Walter Field.  |
|                  | Waterworks         | ... | ... | 50 51 | 0 34 E. | 270 | ●   | —  | d.w.(m.) | 06 | J. Farnham, for the Corporation.                         |
|                  | Heathfield         | ... | ... | 50 58 | 0 16 E. | 499 | ●   | —  | —        | —  | J. F. Leigh Clare.                                       |
|                  | Hove               | ... | ... | 50 47 | 0 10 W. | —   | —   | —  | m.       | —  | A. Griffith, M.O.H., for the Corporation.                |
|                  | Midhurst           | ... | ... | 50 59 | 0 44 W. | 480 | III | ○  | —        | —  | T. L. Evans, M.R.C.S.                                    |
|                  | Newick Rectory     | ... | ... | 50 58 | 0 1 E.  | 133 | —   | —  | —        | —  | Mrs. E. O. Powell.                                       |
|                  | St. Leonards       | ... | ... | 50 51 | 0 33 E. | 178 | II  | —  | W.M.     | 11 | H. Colborne, M.R.C.S., for the Corporation.              |
|                  | ” West Marina      | ... | ... | 50 51 | 0 32 E. | 207 | III | —  | —        | 06 | T. Eldridge, for the Corporation.                        |
|                  | Seaford            | ... | ... | 50 46 | 0 6 E.  | 30  | III | —  | d.       | 09 | Col. F. W. Savage, V.D.                                  |
|                  | Selsey Bill        | ... | ... | 50 43 | 0 47 W. | 19  | III | —  | m.       | —  | E. Heron Allen.  |
|                  | Watergate Park     | ... | ... | 50 56 | 0 55 W. | 239 | ●   | —  | —        | 99 | W. M. Christy.   |
|                  | Westbourne         | ... | ... | 50 52 | 0 55 W. | 30  | —   | —  | (m.)     | 07 | Rev. L. B. Birkett.                                      |
|                  | Worthing           | ... | ... | 50 49 | 0 22 W. | 36  | III | ○○ | d.w.m.   | 11 | R. H. W. Wilshaw, M.B., D.P.H., for the Corporation.     |
| Wilts :—         | Malmesbury         | ... | ... | 51 35 | 2 5 W.  | 235 | III | —  | m.       | —  | George Deadman for C. E. Berto-dano.                     |
|                  | Marlborough        | ... | ... | 51 25 | 1 44 W. | 424 | III | ○  | W.m.     | 11 | G. G. Becher, M.A., and Meddows Taylor.                  |
|                  | Salisbury (Wilton) | ... | ... | 51 4  | 1 51 W. | 180 | II  | —  | M.       | 10 | Thos. Challis, for the Earl of Pembroke, G.C.V.O.        |
|                  | Salisbury          | ... | ... | 51 5  | 1 50 W. | 165 | II  | —  | —        | 10 | Capt. H. Tudor Williams.                                 |
|                  | Sutton Veny        | ... | ... | 51 10 | 2 7 W.  | 389 | ●   | —  | —        | —  | R. W. Pretor Pinney.                                     |
| LONDON DISTRICT. | Barnet             | ... | ... | 51 39 | 0 10 W. | 211 | III | —  | —        | 06 | F. J. Bancroft, B.Sc., M.I.A.C.E., M.I.M.E.              |
| Camberwell—      | The Green          | ... | ... | 51 28 | 0 5 W.  | 17  | —   | ●  | —        | 03 | W. Oxtoby, M.I.C.E., for the Camberwell Borough Council. |
|                  | Forest Hill        | ... | ... | 51 26 | 0 4 W.  | 160 | —   | ●  | —        | 03 |  |
|                  | Leyton Square      | ... | ... | 51 29 | 0 4 W.  | 14  | —   | ●  | —        | 03 |  |
|                  | Peckham Rd.        | ... | ... | 51 28 | 0 5 W.  | 21  | —   | ●  | —        | 03 |  |

The names of Stations added to the list since April, 1911, are printed in clarendon type. Those discontinued during the year are printed in italic type. The positions of the Stations can be identified on the map, Fig. 2, p. 84, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                 | Lat.  | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station.      |              | Publication.             | Year<br>of last<br>Inspec-<br>tion. | Observer.  |
|-------------------------------------|-------|---------|--------------------------------------|------------------------|--------------|--------------------------|-------------------------------------|--|
|                                     |       |         |                                      | Eye Obs.               | Autographic. |                          |                                     |  |
| <b>LONDON DISTRICT—<i>cont.</i></b> |       |         |                                      |                        |              |                          |                                     |  |
| Camden Square ...                   | 51 33 | 0 8 W.  | 110                                  | II                     | ○ (B ●)      | M.d.                     | —                                   | H. R. Mill, D.Sc., LL.D.   |
| Chelsea ...                         | 51 29 | 0 10 W. | 24                                   | ●                      | —            | —                        | —                                   | T. W. E. Higgens, C.E., for the Chelsea Borough Council.                                   |
| City (Bunhill Row) ...              | 51 31 | 0 5 W.  | 80                                   | —                      | ○            | w.(m.)d.                 | —                                   | Messrs. De la Rue.   |
| East Ham ...                        | 51 32 | 0 3 E.  | 12                                   | III                    | —            | —                        | —                                   | J. Banks, for the Corporation.   |
| Eltham ...                          | 51 28 | 0 4 E.  | 209                                  | III                    | —            | m.                       | —                                   | Miss A. Bramwell, B.Sc.  |
| Enfield ...                         | 51 50 | 0 10 W. | 100                                  | III                    | ○            | m.                       | —                                   | W. P. Warren.  |
| Golder's Green ...                  | 51 34 | 0 12 W. | 231                                  | III                    | —            | m.                       | —                                   | J. W. Duncan.  |
| Greenwich ...                       | 51 28 | 0 0     | 155                                  | I                      | (I)          | W.M.R.d.                 | —                                   | The Astronomer Royal.  |
| Hampstead ...                       | 51 33 | 0 11 W. | 450                                  | II                     | ○            | M.d.                     | 09                                  | E. L. Hawke, for the Hampstead Scientific Society.   |
| Hampstead ...                       | 51 33 | 0 11 W. | 375                                  | III                    | —            | m.                       | —                                   | H. W. Braby, B.A.  |
| Isleworth ...                       | 51 29 | 0 20 W. | 24                                   | III                    | —            | —                        | —                                   | A. Worsley.  |
| Kensal Green ...                    | 51 32 | 0 13 W. | 100                                  | ●                      | —            | —                        | —                                   | C. W. Heinemann.   |
| Kew ...                             | 51 28 | 0 19 W. | 18                                   | I, T                   | I            | W.M.H, H <sub>2</sub> h. | —                                   | C. Chree, Sc.D., F.R.S., Superintendent of the Observatory, for the Meteorological Office. |
| Manor Park ...                      | 51 33 | 0 3 E.  | —                                    | ●                      | —            | —                        | —                                   | A. J. Wilmshurst.  |
| Norwood ...                         | 51 26 | 0 6 W.  | 220                                  | II                     | —            | M.                       | 09                                  | W. Marriott.   |
| Pall Mall ...                       | 51 30 | 0 7 W.  | —                                    | —                      | B            | —                        | —                                   | Athenæum Club.   |
| Plumstead ...                       | 51 29 | 0 6 E.  | 300                                  | —                      | —            | m.                       | 01                                  | J. G. Waller.  |
| South Kensington ...                | 51 30 | 0 10 W. | 31                                   | 9, 13, 15,<br>17, 18h. | ○ B θ ●      | M.                       | —                                   | The Staff of the Meteorological Office.  |
| Tottenham ...                       | 51 36 | 0 5 W.  | 51                                   | II                     | ○            | W.M.                     | 10                                  | The Medical Officer of Health for Urban District Council.                                  |
| Westminster ...                     | 51 30 | 0 8 W.  | 27                                   | III                    | ●            | W.M.                     | —                                   | H.M. Office of Works.  |
| ," Training Coll.                   | 51 30 | 0 8 W.  | 107                                  | —                      | ○            | D.W.M.                   | —                                   | J. H. Cowham and Rev. H. B. Workman, D.Lit.  |

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| 6. (a) SCOTLAND, WEST. |                      |       |         |     |     |     |                          |    |   |  |
|------------------------|----------------------|-------|---------|-----|-----|-----|--------------------------|----|---|--|
| Argyleshire :—         | Ardnadam ...         | 55 59 | 4 56 W. | 64  | III | (B) | m.                       | —  | Rev. J. Cairns Mitchell, B.D.   |  |
|                        | Gruine, Isle of Mull | 56 30 | 6 0 W.  | 100 | ●   | —   | —                        | —  | J. W. Melles.   |  |
| Loch Awe :—            |                      |       |         |     |     |     |                          |    |   |  |
|                        | Cruachan Bothy       | 56 14 | 5 28 W. | 283 | ●   | —   | —                        | 10 | John Boyd, Crown Forester.  |  |
|                        | Ford ...             | 56 10 | 5 26 W. | 148 | ●   | —   | —                        | 10 |   |  |
|                        | Oban ...             | 56 25 | 5 30 W. | 20  | II  | ○   | d.m.                     | 11 | Edwin Baily, M.B., for District Council.                              |  |
| Ayr :—                 | Spoltalloch ...      | 56 8  | 5 30 W. | 132 | II  | —   | W.M.                     | 10 | D. S. Melville, for Col. Malcolm.                                     |  |
|                        | Colmonell ...        | 55 8  | 4 53 W. | 150 | III | (B) | W.M.                     | 09 | A. Ogg, for J. W. McConnel.   |  |
|                        | Kilmarnock ...       | 55 37 | 4 36 W. | 90  | III | ○   | W.m.                     | 11 | G. M. Stuart and Thomas Moffat, for the West of Scotland Agric. Coll. |  |
| Bute :—                | Rothesay ...         | 55 50 | 5 4 W.  | 73  | II  | —   | W.M.                     | 10 | D. Penney.  |  |
| Dumbarton :—           | No station.          |       |         |     |     |     |                          |    |   |  |
| Dumfries :—            | SpDumfries ...       | 55 4  | 3 36 W. | 160 | II  | ○   | W.M.                     | 09 | C. C. Easterbrook, M.D., for the Crichton R. Institution.             |  |
|                        | Eskdalemuir          | 55 19 | 3 12 W. | 799 | I   | I   | M.S.H, H <sub>2</sub> h. | —  | G. W. Walker, M.A., Superintendent of the Observatory.                |  |
|                        | S. Ruthwell ...      | 55 0  | 3 26 W. | 67  | II  | ○   | m.                       | 10 | W. H. Whellens, for A. Johnstone Douglas.                             |  |
| Kirkcudbright :—       | SpCally (Gatehouse)  | 54 52 | 4 12 W. | 120 | II  | —   | W.M.                     | 10 | W. Thomson, for Col. F. Murray Baillie.                               |  |
| Lanark :—              | Glasgow ...          | 55 53 | 4 18 W. | 180 | I   | I   | W.M.S. m.                | 11 | Prof. L. Becker, Ph.D., for M.O.                                      |  |
|                        | Thorntonhall ...     | 55 46 | 4 15 W. | 440 | III | ○ B | m.                       | 11 | John Wilson, for A. Henderson Bishop.                                 |  |
| Renfrew :—             | No station.          |       |         |     |     |     |                          |    |   |  |
| Stirling :—            | No station.          |       |         |     |     |     |                          |    |   |  |
| Wigtown :—             | No station.          |       |         |     |     |     |                          |    |   |  |
| 6. (b) ISLE OF MAN.    |                      |       |         |     |     |     |                          |    |   |  |
|                        | Douglas ...          | 54 10 | 4 28 W. | 277 | II  | ○   | W.M.S.                   | 10 | Frank Cottle, for the Corporation.                                    |  |
|                        | " ...                | 54 10 | 4 29 W. | 137 | —   | B   | —                        | —  | Mrs. A. W. Moore.   |  |

The names of Stations added to the list since April, 1911, are printed in clarendon type. Those discontinued during the year are printed in italic type. The positions of the Stations can be identified on the map, Fig. 2, p. 84, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                | Lat.                             | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer. |  |
|------------------------------------|----------------------------------|---------|--------------------------------------|-------------------|--------------|--------------|-------------------------------------|-----------|--|
|                                    |                                  |         |                                      | Eye Obs.          | Autographic. |              |                                     |           |  |
| <b>7. (a) ENGLAND, NORTH WEST.</b> |                                  |         |                                      |                   |              |              |                                     |           |  |
| Cheshire :—                        | Bidston ...                      | 53° 24' | 3° 4 W.                              | 188               | (I) T        | (I) ⊙        | D.W.M.r.                            | 10        | W. E. Plummer, M.A., F.R.A.S., for the Mersey Docks and Harbour Board. |
|                                    | Hawarden Bridge ...              | 53° 12' | 3° 1 W.                              | 22                | III          | —            | W.m.                                | 11        | John Summers & Sons, Ltd.  |
|                                    | Hoyleake ...                     | 53° 23' | 3° 12 W.                             | 30?               | III          | ⊙            | w.m.                                | 02        | Tom Robinson and R. W. Fraser, for Urban District Council.             |
|                                    | Macclesfield ...                 | 53° 16' | 2° 8 W.                              | 500               | III          | —            | m.                                  | —         | John Dale.   |
|                                    | Northwich ...                    | 53° 16' | 2° 30 W.                             | 117               | III          | —            | —                                   | —         | J. A. Saner.   |
| Cumberland :—                      | Aspatria ...                     | 54° 46' | 3° 21 W.                             | 250               | II           | ⊙ (W)        | W.M.                                | 09        | J. Smith Hill, B.A., B.Sc., Agricultural College.                      |
|                                    | Egremont ...                     | 54° 29' | 3° 30 W.                             | 349               | II           | —            | M.                                  | —         | J. W. Sherwen.   |
|                                    | Newton Rigg ...                  | 54° 40' | 2° 49 W.                             | 559               | II           | ⊙            | W.M.                                | 11        | W. T. Lawrence, for the Cumberland County Council.                     |
|                                    | Scaleby ...                      | 54° 54' | 2° 52 W.                             | 41                | III          | —            | m.                                  | —         | Sir R. A. Allison, J.P., D.L.  |
|                                    | Seathwaite ...                   | 54° 30' | 3° 10 W.                             | 422               | III          | —            | m.                                  | —         | Mrs. A. Pepper, for M.O.   |
|                                    | Uldale (Chapel House Reservoir). | 54° 43' | 3° 9 W.                              | 599               | ●            | —            | —                                   | —         | T. Strong, for Aspatria and Silloth Water Board.                       |
| Lancashire :—                      | Blackpool ...                    | 53° 49' | 3° 3 W.                              | 66                | II           | ⊙ (B W ●)    | d.W.M.                              | 11        | E. W. Rees Jones, M.D., D.P.H., for the Corporation.                   |
|                                    | Bolton ...                       | 53° 35' | 2° 27 W.                             | —                 | III          | ○            | m.                                  | —         | Thos. Midgley.   |
|                                    | Burnley ...                      | 53° 48' | 2° 15 W.                             | 459               | III          | ⊙ (B)        | m.r.                                | 11        | Thos. Holt, M.D., for the Corporation.                                 |
|                                    | Carnforth (Over Kelllet).        | 54° 8'  | 2° 44 W.                             | 174               | III          | ○            | m.                                  | 11        | W. Farrer.   |
|                                    | Darwen ...                       | 53° 41' | 2° 28 W.                             | 722               | II           | ○            | d.M.                                | 11        | F. G. Haworth, M.B., for the Corporation.                              |
|                                    | Fleetwood ...                    | 53° 56' | 3° 1 W.                              | —                 | —            | W            | —                                   | 11        | The Urban District Council, for the Meteorological Office.             |

|   |                         |                               |                   |                         |           |        |    |  |
|---|-------------------------|-------------------------------|-------------------|-------------------------|-----------|--------|----|--|
| Graythwaite ... ...   | 54 19                   | 3 0 W.                        | 180               | ●                       |           | m.     | —  | H. T. Gnosspelius.                                   |
| Lancaster ... ...   | 54 3                    | 2 47 W.                       | 311               | III                     | ○ (↙) ●   | m.     | 11 | Neville Holden, F.R.A.S., for the Storey Institute.  |
| Leyland ... ...   | 53 41                   | 2 42 W.                       | 124               | III                     | ○         | m.     | —  | H. Nowell Ffarington.                                |
| Rossall Beach ...   | 53 55                   | 3 2 W.                        | 0                 | III                     | B         | d.     | —  | T. G. Benn.  |
| Manchester (Oldham Road).<br>,, (Whitworth Park).<br>,, (Prestwich) | 53 29<br>53 28<br>53 32 | 2 13 W.<br>2 14 W.<br>2 17 W. | 190<br>125<br>320 | II                      | ○         | M.w.   | 11 | J. Niven, M.A., M.B., for the Corporation.           |
| Southport ... ...   | 53 39                   | 2 59 W.                       | 37                | II <sub>2</sub>         | K ○ (B ↘) | d.M.   | 11 | The University of Manchester.                        |
| Stonyhurst ...  | 53 51                   | 2 28 W.                       | 375               | I                       | ○         | W.M.r. | 11 | F. Gore, for Medical Superintendent of the Asylum.   |
| Westmorland:— Kirkby Lonsdale ...                                   | 54 12                   | 2 36 W.                       | 304               | ●                       | —         | —      | 11 | J. Baxendell, for the Corporation.                   |
| 7. (b) NORTH WALES.   |                         |                               |                   |                         |           |        |    |  |
| Anglesey:— Dwyran ... ...   | 53 9                    | 4 18 W.                       | 16                | II                      | ○ ↗ (B)   | M.     | —  | W. E. Sotheby.                                       |
| Holyhead (Salt Island)<br>(town) ...                                | 53 18<br>53 18          | 4 39 W.<br>4 39 W.            | 57<br>48          | —<br>T, II <sub>3</sub> | B         | D.W.M. | 11 | F. M. Cotton, C.E., for M.O.                         |
| Carnarvon:— Llanegrad ... ...                                       | 53 20                   | 4 16 W.                       | 414               | II                      | ○ ↗ (B)   | M.     | 11 | T. Chope, for M.O.                                   |
| Colwyn Bay ... ...  | 53 16                   | 3 44 W.                       | 81                | III                     | ○         | d.m.   | 10 | W. E. Sotheby.                                       |
| Llanberis ... ...   | 53 5                    | 4 0 W.                        | 913               | III                     | —         | m.     | 10 | Wm. Jones, A.M.I.C.E., for Urban District Council.   |
| Llandudno ... ...   | 53 20                   | 3 50 W.                       | 71                | II                      | ○         | d.W.M. | 10 | A. Lockwood.   |
| Penrhyn Quarry ...  | 53 10                   | 4 6 W.                        | 527               | ●                       | —         | —      | 10 | William Little, for the Town Council.                |
| Snowdonia:—<br>Bungalow ...   | 53 4                    | 4 1 W.                        | 309               | ●                       | —         | —      | 01 | W. J. Griffith, for Lord Penrhyn.                    |
| Copper Mill ...   | 53 4                    | 4 3 W.                        | 1,479             | ●                       | —         | —      | —  | A. Lockwood.   |
| Intake ...  | 53 4                    | 4 2 W.                        | 1,479             | ●                       | —         | —      | —  | —  |
| Old Road ...  | 53 4                    | 4 0 W.                        | 324               | ●                       | —         | —      | —  | —  |
| Pen-y-Gwryd ...   | 53 5                    | 4 0 W.                        | 913               | ●                       | —         | —      | 11 | Dr. H. W. Fox and R. D. Jones, for District Council. |
| Bettws-y-Coed ...   | 53 7                    | 3 53 W.                       | 101               | II                      | ○         | d.W.M. | —  | George A. Crace-Calvert, M.B.                        |
| Ruthin (Llanbedr Hall)  | 53 8                    | 3 17 W.                       | 450               | III                     | —         | m.     | —  | —  |

The names of Stations added to the list since April, 1911, are printed in clarendon type. Those discontinued during the year are printed in italic type. The positions of the Stations can be identified on the map, Fig. 2, p. 84, from the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                    | Lat.                             | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |                    | Publication. | Year<br>of last<br>Inspection. | Observer.  |
|--|----------------------------------|---------|--------------------------------------|-------------------|--------------------|--------------|--------------------------------|--|
|  |                                  |         |                                      | Eye Obs.          | Autographic.       |              |                                |  |
| <b>7. (b) NORTH WALES—<i>cont.</i></b> |                                  |         |                                      |                   |                    |              |                                |  |
| Flint:—                                | Penbedw ... ...                  | 53° 12' | 3° 11' W.                            | 650               | —                  | B            | —                              | H. W. Buddicom.  |
|  | Rhyl ... ...                     | 53° 19' | 3° 29' W.                            | 30                | III                | ○            | d.w.m.                         | A. A. Goodall, for District Council.                   |
|  | St. Asaph (St. Beuno's College). | 53° 15' | 3° 23' W.                            | 479               | III                | (B)          | m.                             | Rev. J. Rowland, S.J. and Rev. C. Baillon, S.J., B.Sc. |
| Merioneth:—                            | Aberdovey ... ...                | 52° 33' | 4° 4' W.                             | 22                | III                | ○            | w.m.                           | W. J. Eves.  |
|  | Towyn ... ...                    | 52° 35' | 4° 5' W.                             | 10                | III                | ○            | d.                             | Urban District Council.                                |
| Montgomery:—                           | Welshpool ... ...                | 52° 39' | 3° 8' W.                             | 254               | III                | —            | m.                             | —  |
| <b>8. (a) SOUTH WALES.</b>             |                                  |         |                                      |                   |                    |              |                                |  |
| Brecknock:—                            | Gwernyfed Park ...               | 52° 5'  | 3° 15' W.                            | 374               | III                | —            | m.                             | James Slade, for Col. Wood.                            |
|  | Llangammarch Wells               | 52° 7'  | 3° 32' W.                            | 550               | III                | ○            | W.M.                           | W. Black Jones, M.D., B.Sc., D.P.H.                    |
| Cardigan:—                             | Aberystwyth ...                  | 52° 25' | 4° 1' W.                             | 59                | III                | ○○           | d.w.m.                         | 10 A. Thomas, M.D., for the Urban Council.             |
| Carmarthen:—                           | Lampeter ... ...                 | 52° 7'  | 4° 5' W.                             | 498               | ●                  | —            | —                              | John C. Harford.                                       |
|  | Llandovery ... ...               | 51° 59' | 3° 48' W.                            | 248               | ●                  | —            | —                              | Douglas T. M. Jones.                                   |
| Glamorgan:—                            | Cardiff ... ...                  | 51° 28' | 3° 10' W.                            | 203               | III                | ○            | W.m.r.                         | 10 E. Walford, M.D., for the Corporation.              |
| Pembroke:—                             | Port Talbot ... ...              | 51° 34' | 3° 45' W.                            | 179               | ●                  | ○            | (m.)                           | Miss Talbot; G. Lipscomb.                              |
|  | Swansea ... ...                  | 51° 37' | 3° 55' W.                            | 24                | III                | ○○           | m.                             | 10 D. Bliss, for the Corporation.                      |
|  | Haverfordwest ...                | 51° 48' | 4° 58' W.                            | 93                | (II)               | ○(B)         | (m.)                           | 10 J. W. Phillips.                                     |
|  | Pembroke (St. Ann's Head).       | 51° 41' | 5° 11' W.                            | 149               | T, II <sub>3</sub> | ○            | D.W.M.                         | 11 Lightkeepers, for M.O.                              |
|  | Tenby ... ...                    | 51° 41' | 4° 42' W.                            | 79                | —                  | ○            | w.(m.)                         | 03 Miss M. B. Truscott, for the Corporation.           |
| Radnor:—                               | Llandrindod Wells ...            | 52° 14' | 3° 23' W.                            | 699               | ●                  | —            | —                              | W. B. de Winton.                                       |
|  | Rhayader Watershed               | 52° 18' | 3° 29' W.                            | *                 | (15) ●             | —            | —                              | Corporation of Birmingham, Water Department.           |

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

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| 8. (b) ENGLAND, SOUTH WEST. |               |                     |     |       |         |       |                 |       |                          |    |   |
|-----------------------------|---------------|---------------------|-----|-------|---------|-------|-----------------|-------|--------------------------|----|---|
|                             | Cornwall :—   | Falmouth            | ... | 50 9  | 5 4 W.  | 167   | I               | I     | W.M.S.H <sub>2</sub> .h. | 11 | Royal Cornwall Polytechnic Society, for M.O.          |
|                             |               | „ Pendennis Castle. |     | 50 8  | 5 3 W.  | —     | —               | —     | —                        | 11 | Coastguard, for M.O.                                  |
|                             |               | Fowey               | ... | 50 21 | 4 38 W. | 51    | III             | ○○    | m.                       | 10 | Dr. W. H. Boger.                                      |
|                             |               | Newquay             | ... | 50 25 | 5 4 W.  | 190   | T               | ○(B)  | w.M.                     | 11 | C. C. Vigurs, B.A., M.D., for Urban District Council. |
|                             |               | Penzance            | ... | 50 7  | 5 32 W. | 54    | III             | —     | m.                       | 10 | Chas. H. Benn, for District Council.                  |
|                             | Devonshire :— | Redruth             | ... | 50 14 | 5 14 W. | 398   | III             | —     | m.                       | —  | A. P. Jenkins.  |
|                             |               | Arlington Court     | ... | 51 8  | 3 58 W. | 613   | III             | —     | W.m.                     | 10 | W. W. Pike, for Miss Chichester.                      |
|                             |               | Ashburton           | ... | 50 32 | 3 46 W. | 583   | III             | —     | m.                       | —  | J. S. Amery.  |
|                             |               | Barnstaple          | ... | 51 5  | 4 3 W.  | 24    | III             | —     | —                        | 06 | Thos. Wainwright, for the North Devon Athenæum.       |
|                             |               | Cullompton          | ... | 50 51 | 3 23 W. | 202   | III             | ○○    | W.m.                     | 10 | Murray T. Foster.                                     |
|                             |               | Ilfracombe          | ... | 51 12 | 4 8 W.  | 199   | III             | —     | m.                       | —  | O. M. Prouse, A.M.I.C.E.                              |
|                             |               | Killerton           | ... | 50 44 | 3 32 W. | 159   | III             | —     | m.                       | —  | John Wilson, for Sir T. Acland, Bt.                   |
|                             |               | Paignton            | ... | 50 26 | 3 34 W. | 11    | II              | ○(B)  | m.d.                     | 10 | A. J. Holman, for Town Council.                       |
|                             |               | Plymouth            | ... | 50 22 | 4 8 W.  | 116   | II <sub>3</sub> | ○ (B) | d.W.M.r. /               | 11 | H. Victor Prigg, A.M.I.C.E., for the Corporation.     |
|                             |               | Princetown          | ... | 50 33 | 3 59 W. | 1,359 | III             | —     | m.                       | —  | G. Berry.   |
|                             |               | Rousdon             | ... | 50 43 | 3 0 W.  | 515   | III             | —     | m.                       | —  | C. Grover, for Hon. Lady Peek.                        |
|                             |               | Sidmouth            | ... | 50 41 | 3 15 W. | 147   | III             | —     | m.                       | —  | Miss C. Radford.                                      |
|                             |               | Tavistock           | ... | 50 33 | 4 10 W. | 374   | III             | —     | m.                       | —  | W. J. Monk.   |
|                             |               | Salcombe            | ... | 50 14 | 3 46 W. | 39    | —               | —     | m.w.                     | 04 | The late J. Fairweather and Capt. John Partridge.     |
|                             |               | Sheepstor           | ... | 50 29 | 4 1 W.  | 749   | II              | —     | M.                       | 10 | Rev. H. H. Breton, M.A.                               |
|                             |               | Teignmouth          | ... | 50 33 | 3 29 W. | 20    | III             | —     | d.m.                     | 10 | G. Rossiter for M.O.H.                                |
|                             |               | Torquay             | ... | 50 28 | 3 31 W. | 12    | III             | —     | d.w.m.                   | 00 | F. March, for the Corporation.                        |
|                             |               | Whitchurch          | ... | 50 32 | 4 6 W.  | 593   | II              | —     | M.                       | 10 | E. E. Glyde.  |
|                             |               | Woolacombe          | ... | 51 10 | 4 12 W. | 59    | II              | —     | M.                       | 10 | T. S. Watkinson, for Miss Chichester.                 |

The names of Stations added to the list since April, 1911, are printed in clarendon type. Those discontinued during the year are printed in italic type. The positions of the Stations can be identified on the map, Fig. 2, p. 84, from the figures which give their heights above Mean Sea Level.

\* 15 Rainfall Stations.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.               | Lat.                      | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |                    | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer.  |  |  |  |  |  |  |
|-----------------------------------|---------------------------|---------|--------------------------------------|-------------------|--------------------|--------------|-------------------------------------|--|--|--|--|--|--|--|
|                                   |                           |         |                                      | Eye Obs.          | Autographic.       |              |                                     |  |  |  |  |  |  |  |
| <b>8. (b) ENGLAND, SOUTH-WEST</b> |                           |         |                                      |                   |                    |              |                                     |  |  |  |  |  |  |  |
| <i>—cont.</i>                     |                           |         |                                      |                   |                    |              |                                     |  |  |  |  |  |  |  |
| Dorset :—                         | Creech Grange ...         | 50° 38' | 2° 8' W.                             | 239               | ●                  | —            | —                                   | J. W. G. Bond.   |  |  |  |  |  |  |
|                                   | Dorchester ...            | 50° 43' | 2° 27' W.                            | 310               | III                | m.           | —                                   | Borough Engineer.  |  |  |  |  |  |  |
|                                   | Portland Bill ...         | 50° 32' | 2° 27' W.                            | 19                | T, II <sub>3</sub> | D.W.M.       | 11                                  | Lightkeeper, for M.O.  |  |  |  |  |  |  |
|                                   | Shaftesbury ...           | 51° 1'  | 2° 12' W.                            | 722               | III                | W.m.         | 10                                  | Rev. F. Ehlers.  |  |  |  |  |  |  |
|                                   | Weymouth ...              | 50° 36' | 2° 27' W.                            | 21                | III                | d.m          | 11                                  | I. J. Brown and J. H. Bolam.                                     |  |  |  |  |  |  |
| Gloucester :—                     | Bristol, Over Court Park. | 51° 32' | 2° 35' W.                            | 147               | III                | r.           | 07                                  | R. C. Cann Lippincott.   |  |  |  |  |  |  |
| Monmouth :—                       | Clifton, Bristol          | 51° 27' | 2° 37' W.                            | 229               | III                | W.m.         | 09                                  | D. Rintoul, M.A.   |  |  |  |  |  |  |
|                                   | Abergavenny ...           | 51° 49' | 3° 2' W.                             | 178               | ●                  | —            | —                                   | A. V. Whitehead.   |  |  |  |  |  |  |
|                                   | Abersychan ...            | 51° 44' | 3° 5' W.                             | 698               | ●                  | —            | —                                   | W. P. James.   |  |  |  |  |  |  |
|                                   | Newchurch ...             | 51° 41' | 2° 48' W.                            | 525               | ●                  | —            | —                                   |  |  |  |  |  |  |  |
|                                   | Newport ...               | 51° 35' | 3° 0' W.                             | 32                | III                | —            | 04                                  |  |  |  |  |  |  |  |
|                                   | Pant-yr-eos ...           | 51° 38' | 3° 4' W.                             | 449               | ●                  | —            | 00                                  |  |  |  |  |  |  |  |
|                                   | Ynys-y-fro ...            | 51° 38' | 3° 3' W.                             | 151               | ●                  | —            | 00                                  |  |  |  |  |  |  |  |
| Somerset :—                       | Minehead ...              | 51° 12' | 3° 29' W.                            | 104               | III                | m.           | —                                   | R. Shafto Adair.   |  |  |  |  |  |  |
|                                   | Weston - Super - Mare.    | 51° 21' | 2° 59' W.                            | 29                | III                | m.           | —                                   | Sydney C. Smith.   |  |  |  |  |  |  |
| <b>9. IRELAND, NORTH.</b>         |                           |         |                                      |                   |                    |              |                                     |  |  |  |  |  |  |  |
| (a) <i>Western Part.</i>          |                           |         |                                      |                   |                    |              |                                     |  |  |  |  |  |  |  |
| Galway :—                         | Ard fry ...               | 53° 19' | 9° 0' W.                             | —                 | —                  | B            | —                                   | W. M. Tattersall, for the Department of Agriculture for Ireland. |  |  |  |  |  |  |
|                                   | Recess ...                | 53° 28' | 9° 44' W.                            | 90                | ●                  | —            | —                                   | M. MacCarthy, for the M. G.W. Railway.                           |  |  |  |  |  |  |
| Leitrim :—                        | Carrigallen ...           | 53° 58' | 7° 38' W.                            | 350?              | ●                  | —            | —                                   | Miss Morrow.   |  |  |  |  |  |  |
| Mayo :—                           | Black sod Point ...       | 54° 6'  | 10° 4' W.                            | 37                | T, II <sub>3</sub> | B            | D.W.M.R.r.                          | The Chief Officer, Coastguard, for M.O.                          |  |  |  |  |  |  |
|                                   | Mallaranny ...            | 53° 55' | 9° 40' W.                            | 119               | ●                  | —            | —                                   | The Manageress of the Hotel for the M. G.W. Railway.             |  |  |  |  |  |  |

|                     |                      |       |         |         |     |                    |        |            |                                       |   |  |
|---------------------|----------------------|-------|---------|---------|-----|--------------------|--------|------------|---------------------------------------|---|--|
| Roscommon :—        | No station.          |       |         |         |     |                    |        |            |                                       |   |  |
| Sligo :—            | Markree Castle       | ...   | 54 11   | 8 27 W. | 122 | II                 | ○      | W.M.S.R.   | 09                                    | J. R. Armstrong, for Captain Cooper.                  |  |
|                     | (b) Eastern Part.    |       |         |         |     |                    |        |            |                                       |   |  |
| Antrim :—           | Belfast              | ...   | 54 35   | 5 56 W. | 61  | III                | —      | M. R.      | 09                                    | John Wylie, B.A., and G. Robinson, for Prof. Morton.  |  |
|                     | Glenarm              | ...   | 54 58   | 5 56 W. | 41  | ●                  | —      | —          | —                                     | The Earl of Antrim.                                   |  |
|                     | Lisburn              | ...   | 54 31   | 6 3 W.  | 206 | III                | —      | —          | —                                     | John Ridges, M.A.                                     |  |
| Armagh :—           | Armagh               | ...   | 54 21   | 6 39 W. | 196 | II                 | ↙ ○ ●  | W.M.S.R.   | 11                                    | J. L. E. Dreyer, Ph.D., for M.O.                      |  |
| Cavan :—            | No station.          |       |         |         |     |                    |        |            |                                       |   |  |
| Donegal :—          | Dunfanaghy           | ...   | 55 11   | 7 58 W. | 54  | II                 | —      | m.         | 11                                    | J. J. MacGrath, L.R.C.P.                              |  |
|                     | Killybegs            | ...   | 54 40   | 8 27 W. | 221 | ●                  | —      | —          | —                                     | John C. Ward.   |  |
|                     | Malin Head           | ...   | 55 23   | 7 24 W. | 208 | T                  | B      | D.W.M.R.r. | 11                                    | Chief Officer, Coastguard, for M.O.                   |  |
| Down :—             | Donaghadee           | ...   | 54 38   | 5 32 W. | 40  | T, II <sub>3</sub> | B      | D.W.M.R.r. | 11                                    | Coastguard, for M.O.                                  |  |
| Fermanagh :—        | No station.          |       |         |         |     |                    |        |            |                                       |   |  |
| Londonderry :—      | No station.          |       |         |         |     |                    |        |            |                                       |   |  |
| Longford :—         | Newtown Forbes..     | 53 46 | 7 51 W. | ?172    | II  | —                  | m.     | —          | L. A. Boyle, for the Earl of Granard. |   |  |
| Louth :—            | No station.          |       |         |         |     |                    |        |            |                                       |   |  |
| Meath :—            | No station.          |       |         |         |     |                    |        |            |                                       |   |  |
| Monaghan :—         | No station.          |       |         |         |     |                    |        |            |                                       |   |  |
| Tyrone :—           | No station.          |       |         |         |     |                    |        |            |                                       |   |  |
| Westmeath :—        | No station.          |       |         |         |     |                    |        |            |                                       |   |  |
| 10. IRELAND, SOUTH. |                      |       |         |         |     |                    |        |            |                                       |   |  |
|                     | (a) Eastern Part.    |       |         |         |     |                    |        |            |                                       |   |  |
| Carlow :—           | No station.          |       |         |         |     |                    |        |            |                                       |   |  |
| Dublin :—           | Donabate             | ...   | 53 29   | 6 7 W.  | 55  | II                 | —      | m.         | —                                     | The late Henry Cullinan, L.R.C.P.L.                   |  |
|                     | Dublin City          | ...   | 53 20   | 6 15 W. | 47  | II                 | B      | d.W.M.R.   | 07                                    | Sir John W. Moore, M.D., D.Sc.                        |  |
|                     | " Phoenix Park       | 53 22 | 6 21 W. | 155     | II  | ○ ↗                | w.M.S. | w.M.S.     | 11                                    | Lt.-Col. C. C. J. Pery, R.E., Ordnance Survey Office. |  |
|                     | " Botanic Gar- dens. | 53 23 | 6 16 W. | 67      | II  | —                  | m.     | m.         | 07                                    | F. W. Moore, M.R.I.A.                                 |  |

The names of Stations added to the list since April, 1911, are printed in clarendon type. Those discontinued during the year are printed in italic type. The positions of the Stations can be identified on the map, Fig. 2, p. 84, by the figures which give their heights above Mean Sea Level.

LIST OF STATIONS ARRANGED ACCORDING TO DISTRICTS AND COUNTIES—*continued.*

| County and Station.                    | Lat.                               | Long.   | Height<br>in feet<br>above<br>M.S.L. | Order of Station. |              | Publication. | Year<br>of last<br>Inspec-<br>tion. | Observer. |   |  |  |  |  |  |
|--|------------------------------------|---------|--------------------------------------|-------------------|--------------|--------------|-------------------------------------|-----------|---|--|--|--|--|--|
|  |                                    |         |                                      | Eye Obs.          | Autographic. |              |                                     |           |   |  |  |  |  |  |
| <b>10. IRELAND, SOUTH—<i>cont.</i></b> |                                    |         |                                      |                   |              |              |                                     |           |   |  |  |  |  |  |
| (a) <i>Eastern Part</i> — <i>cont.</i> |                                    |         |                                      |                   |              |              |                                     |           |   |  |  |  |  |  |
| Dublin— <i>cont.</i>                   | Dublin, Trinity College            | 53° 21' | 6° 16' W.                            | 12                | II           | ○            | M.(R.)W.                            | 07        | W. J. Good and W. H. Clark,<br>for Prof. Thrift.          |  |  |  |  |  |
|  | Killiney ...                       | 53° 16' | 6° 7' W.                             | 249               | ●            | —            | —                                   | —         | Mrs. G. B. Symes.   |  |  |  |  |  |
|  | Kingstown ...                      | 53° 17' | 6° 8' W.                             | 42                | III          | ○            | m.                                  | 11        | J. S. Vaughan, LL.D., Town<br>Clerk, for the Corporation. |  |  |  |  |  |
|  | „ Harbour ...                      | 53° 17' | 6° 8' W.                             | —                 | —            | ■            | ■                                   | 11        | Captain A. F. Holmes, R.N., for<br>H.M. Office of Works.  |  |  |  |  |  |
| Kildare :—                             | Clongowes Wood<br>College.         | 53° 19' | 6° 41' W.                            | 245               | II           | (B θ) ○      | m.                                  | 09        | Rev. J. J. Nerney, S.J., and Rev.<br>C. J. Byrne, S.J.    |  |  |  |  |  |
| Kilkenny :—                            | Kilkenny ...                       | 52° 39' | 7° 14' W.                            | 212               | III          | B            | W.m.                                | 09        | E. Sutton, for the Marquis of<br>Ormonde, K.P.            |  |  |  |  |  |
| King's Co. :—                          | Birr Castle ...                    | 53° 6'  | 7° 55' W.                            | 175               | T            | ○            | D.W.M.S.R.r.                        | 11        | Dr. Boedicker, for the Earl of<br>Rosse.                  |  |  |  |  |  |
| Queen's Co. :—                         | Mountmellick ...                   | 53° 7'  | 7° 20' W.                            | 253               | III          | —            | m.                                  | 09        | W. A. Robinson.   |  |  |  |  |  |
| Waterford :—                           | Waterford ...                      | 52° 16' | 7° 7' W.                             | —                 | —            | B            | —                                   | 02        | Harbour Authorities.                                      |  |  |  |  |  |
|  | ... ...                            | 52° 16' | 7° 7' W.                             | 20?               | III          | —            | W.m.R.                              | 11        | J. N. White.  |  |  |  |  |  |
|  | De La Salle Train-<br>ing College. | 52° 15' | 7° 6' W.                             | 20                | III          | —            | —                                   | —         | Rev. M. J. Healey, B.Sc.                                  |  |  |  |  |  |
| Wexford :—                             | Wexford ...                        | 53° 15' | 6° 30' W.                            | 100               | III          | —            | m.                                  | —         | Charles Bain.   |  |  |  |  |  |
| Wicklow :—                             | Newcastle ...                      | 53° 5'  | 6° 6' W.                             | 256               | II           | —            | m.                                  | 02        | J. T. Crowe, M.D., and C. D.<br>Hanan, M.B.               |  |  |  |  |  |
| (b) <i>Western Part.</i>               |                                    |         |                                      |                   |              |              |                                     |           |   |  |  |  |  |  |
| Clare :—                               | Ennistymon ...                     | 52° 57' | 9° 17' W.                            | 130               | ●            | —            | —                                   | —         | Rev. C. W. McDowell, M.A.                                 |  |  |  |  |  |
|  | Hurdlestown ...                    | 52° 48' | 8° 38' W.                            | 157               | ●            | —            | —                                   | —         | Lt.-Col. W. O. Bentley, R.A.                              |  |  |  |  |  |

|   |                              |       |          |     |                    |         |                |            |    |   |
|---|------------------------------|-------|----------|-----|--------------------|---------|----------------|------------|----|---|
|   | Mount Callan ...             | 52 53 | 9 16 W.  | 479 | ●                  | —       | —              | —          | 98 | Lt.-Col. Tottenham.   |
|   | Newmarket-on-Fergus.         | 52 46 | 8 53 W.  | 85  | ●                  | —       | —              | —          | 98 | Alfred Barker, for W. W. A. Fitzgerald.                           |
|   | Quilty ... ...               | 52 50 | 9 28 W.  | *   | —                  | —       | —              | —          | 11 | W. Barrington, M.L.C.E., for the West and South Clare Railway Co. |
| Cork :—                                       | Ballinacurra ...             | 51 52 | 8 10 W.  | 24  | III                | ○   ↗   | w.m.           | D.W.M.R.r. | 10 | John H. Bennett.  |
|   | Roche's Point                | 51 47 | 8 15 W.  | 32  | T                  | —       | —              | —          | 11 | M. FitzMahony, Post Office, for M.O.                              |
|   | " "                          | 51 47 | 8 15 W.  | —   | —                  | —       | —              | —          | 10 | Captain G. Usborne, for Cork Harbour Commissioners.               |
| Kerry :—                                      | Caragh Lake ...              | 52 3  | 9 53 W.  | 59  | ●                  | —       | —              | —          | —  | Admiral E. F. Jeffreys, C.V.O.                                    |
|   | Killarney ...                | 52 4  | 9 30 W.  | 174 | III                | —       | W.m.R.         | —          | 09 | E. W. Griffin, M.D.   |
|   | Valencia ...                 | 51 56 | 10 15 W. | 30  | I, T               | I, B    | D.W.M.R.r.H.h. | —          | 11 | J. E. Cullum, for M.O.  |
| Limerick :—                                   | Glanleam ...                 | 51 56 | 10 20 W. | —   | ●                  | —       | —              | —          | 01 | Miss A. O'Donoghue.   |
|   | Foynes ...                   | 52 37 | 9 7 W.   | 108 | III                | —       | W.m.           | —          | 09 | J. J. Alcorn, for Lord Monteagle, K.P.                            |
|   | Limerick (Derravoher)        | 52 38 | 8 40 W.  | 40  | ●                  | —       | —              | —          | 09 | Sir A. W. Shaw.   |
|   | " (Mungrat Coll.).           | 52 38 | 8 41 W.  | 47  | II                 | (B) K ○ | M.R.k.         | —          | 10 | Rev. W. O'Leary, S.J.   |
| Tipperary :—                                  | Cahir (Bengurragh)           | 52 22 | 7 56 W.  | 199 | III                | —       | W.m.           | —          | 10 | R. W. Smith, Jun.   |
| <b>11. ENGLISH CHANNEL (WESTERN SECTION).</b> |                              |       |          |     |                    |         |                |            |    |   |
| Guernsey :—                                   | St. Peter Port, Villa Carey. | 49 27 | 2 32 W.  | 180 | III                | ○       | W.m.           | —          | 08 | F. E. Carey, M.D.   |
|   | St. Peter Port, Brooklyn.    | 49 27 | 2 31 W.  | 297 | II                 | ○ (B θ) | w.M.           | —          | 08 | Adolphus Collenette.  |
| Jersey :—                                     | St. Aubin's ...              | 49 12 | 2 11 W.  | 25  | T, II <sub>3</sub> | —       | D.W.M.         | —          | 10 | J. Fisher, for M.O.   |
|   | St. Helier's ...             | 49 11 | 2 6 W.   | —   | —                  | ○       | d.w.(m.)       | —          | 10 | Signal Officer, Fort Regent, for M.O.                             |
| Scilly :—                                     | St. Mary's ...               | 49 56 | 6 18 W.  | 131 | T, II <sub>3</sub> | B ↗ ○   | D.W.M. ↗       | —          | 11 | The Coastguard, for M.O.  |

The names of Stations added to the list since April, 1911, are printed in clarendon type. Those discontinued during the year are printed in italic type. The positions of the Stations can be identified on the map, Fig. 2, p. 84, by the figures which give their heights above Mean Sea Level.

\* Height of anemometer head above ground 40 feet.

**LIST OF FOREIGN STATIONS FROM WHICH REPORTS ARE RECEIVED DAILY BY TELEGRAPH.**

| Name of Station.                                    | Authority.  |
|---|---|
| <sup>1</sup> Vestmanna                              |   |
| <sup>2</sup> Reykjavik                              |   |
| <sup>1</sup> *Blonduös                              | (Iceland) ... } Meteorological Institute, Copenhagen. |
| <sup>1</sup> Isafjord                               | Captain Ryder, <i>Director</i> .                      |
| <sup>2</sup> Seydisfjord                            |   |
| <sup>2</sup> Thorshavn, Faeröe Islands              | ... }   |
| Haparanda ...                                       | Meteorological Office, Stockholm.                     |
| Hernösand ...                                       | Dr. Hamberg, <i>Director</i> .                        |
| <sup>2</sup> Stockholm ...                          |   |
| Wisby ...   | ... }   |
| Karlstad ...  |   |
| Bodö ...  | ... }   |
| <sup>2</sup> Christiansund ...                      | Meteorological Institute, Christiania.                |
| <sup>1</sup> Skudenesnaes ...                       | Professor Mohn, <i>Director</i> .                     |
| Færder ...  | ... }   |
| <sup>2</sup> The Skaw ...                           | Meteorological Institute, Copenhagen.                 |
| Blaavands Huk ...                                   | Captain Ryder, <i>Director</i> .                      |
| Cuxhaven ...  | Deutsche Seewarte, Hamburg.                           |
| Berlin ...  | Captain Behm, <i>Director</i> .                       |
| Frankfurt ...                                       | ... }   |
| Munich ...  |   |
| <sup>2</sup> The Helder ...                         | Meteorological Institute, Utrecht.                    |
| Brussels ...  | Dr. van Everdingen, <i>Director</i> .                 |
| Cape Gris Nez ...                                   | Meteorological Service, Brussels.                     |
| La Hève ...   | M. J. Vincent, <i>Director</i> .                      |
| *Ushant ...   | ... }   |
| <sup>2</sup> Brest (St. Mathieu) ...                |   |
| Lorient (Ile de Groix) ...                          |   |
| *Er-Hastellic ...                                   | ... }   |
| <sup>1</sup> <sup>2</sup> Rochefort (Ile d'Aix) ... |   |
| *Chassiron ...                                      | Bureau Central Météorologique, Paris.                 |
| *La Coubre ...                                      | M. Alfred Angot, <i>Director</i> .                    |
| <sup>2</sup> Biarritz ...                           | ... }   |
| <sup>2</sup> Paris ...                              |   |
| Belfort ...   | ... }   |
| Lyons ...   |   |
| Nice ...  | ... }   |
| Perpignan ...                                       |   |
| *Cape Béarn ...                                     | Central Meteorological Institute, Madrid.             |
| Sanguinaire (Corsica)...                            | M. J. Galbis, <i>Director</i> .                       |
| Corunna ...   | ... }   |
| Gibraltar ...                                       | The Colonial Secretary.                               |
| Lisbon ...  | Observatory, Lisbon.                                  |
| Madeira (Funchal) ...                               | M. Pina Vidal, <i>Director</i> .                      |
| <sup>2</sup> Azores (Ponta Delgada) ...             | Meteorological Service of the Azores.                 |
| ," (Horta) ...                                      | Major Chaves, <i>Director</i> .                       |

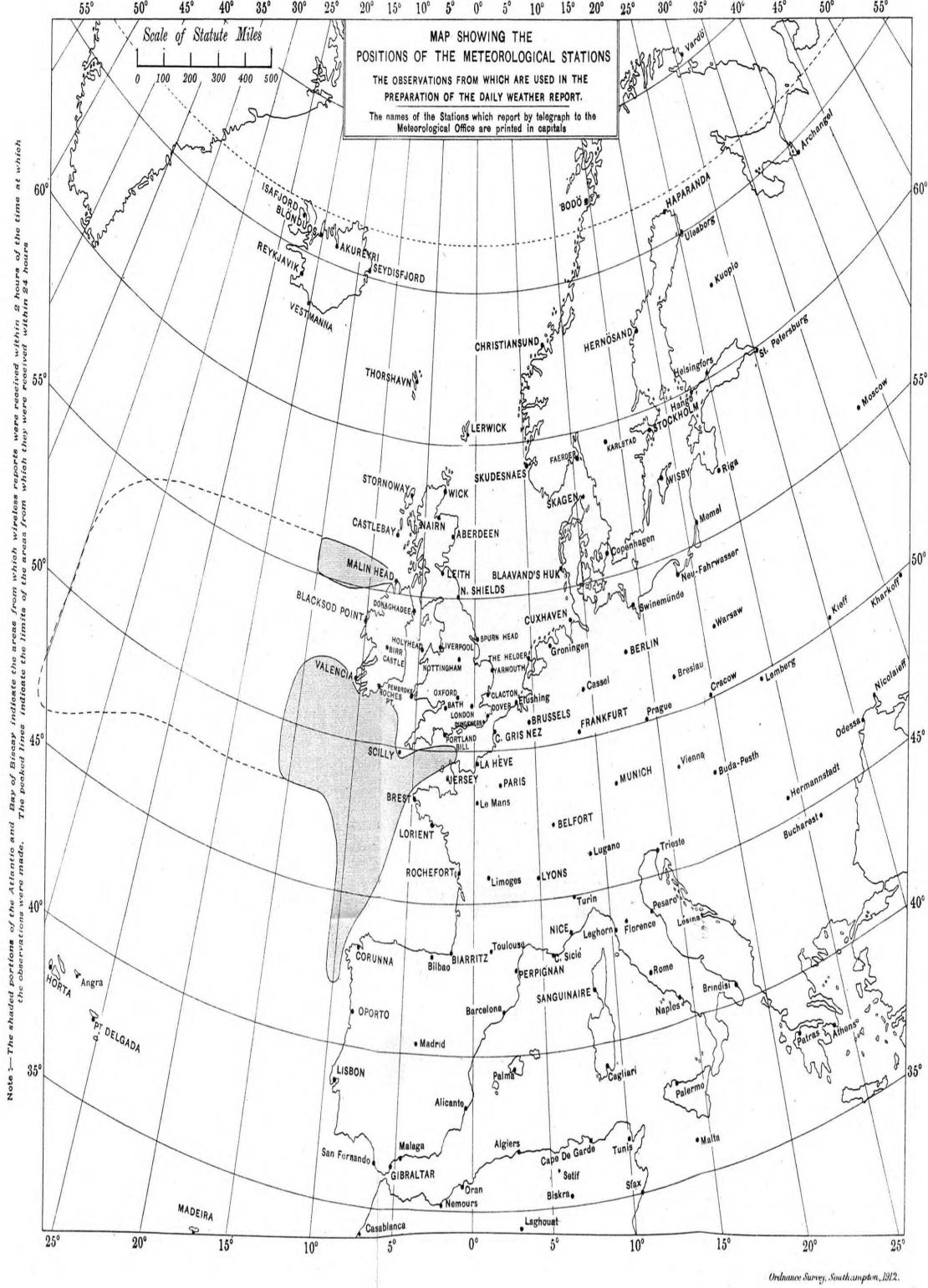
*Note.*—The stations marked (<sup>1</sup>) report also at 1h. p.m., and those marked (<sup>2</sup>) at 6h. p.m.  
Lisbon reports at 4h. p.m. instead of 6h. p.m., and Ponta Delgada at 3h. p.m.

\* The reports from these stations are not published in the Daily Weather Report.

*Report of Meteorological Committee, 1911-1912.*

To face p. 108.

Fig. 4.



*Appendix II.—Supply of Information to the Public.* 109**LIST OF ADDITIONAL STATIONS CONTRIBUTING EVENING REPORTS, GENERALLY AT 6 P.M., TO THE DAILY WEATHER REPORT :—**

|               |  |               |   |                 |   |
|---------------|--|---------------|---|-----------------|---|
| Scotland      | { Oban.<br>Stonehaven.<br>Carnoustie.                                  | England, E.   | { Walton-on-the-Naze.<br>Lowestoft.<br>Felixstowe.<br>Southend-on-Sea.  | England, S.W.   | { Weymouth.<br>Teignmouth.<br>Torquay.<br>Paignton.<br>Weston-super-Mare. |
| England, N.E. | { Harrogate.<br>Scarborough.   |               | Ramsgate.<br>Margate.<br>Deal.<br>Littlestone-on-Sea.<br>Folkestone.<br>Hastings.<br>Bexhill-on-Sea.<br>Eastbourne.<br>Seaford.<br>Brighton.<br>Worthing.<br>Bognor.<br>Southsea.<br>Bournemouth. | 9 p.m. Reports. | { Dublin.<br>Plymouth.<br>Darwen.<br>Manchester.<br>Birmingham.           |
| England, N.W. | { Blackpool.<br>Southport.<br>Buxton.<br>Douglas.                      | England, S.E. |   |                 |   |
| Wales ...     | { Rhyl.<br>Colwyn Bay.<br>Llandudno.<br>Bettws-y-Coed.<br>Aberystwyth. |               |   |                 |   |

**LIST OF SEA TEMPERATURE STATIONS.**

|  |                                   |
|--|-----------------------------------|
| § *Aberdeen, Cove Bay.                 | ² Holyhead Harbour Office.        |
| *Arran, North, Galway.                 | § *Kirkwall.                      |
| † Bahama Bank Lightship.               | † Kish Bank Lightship.            |
| § Ballantrae, Ayrshire.                | § *Lamlash, Isle of Arran.        |
| *Ballydonegan, Co. Cork.               | † Leman and Ower Lightship.       |
| † Barrels Rock Lightship.              | § *Lerwick.                       |
| *Blacksod Point, Co. Mayo.             | *Liscannor, Co. Clare.            |
| † Blackwater Bank Lightship.           | §³ Margate.                       |
| § *Burmouth, Ayton, Berwick.           | † Morecambe Bay Lightship.        |
| *Burntisland.                          | † Newarp Lightship.               |
| † Carnarvon Bay Lightship.             | § *Newquay, Cornwall.             |
| § *Cleggan, Co. Galway.                | † North Arklow Lightship.         |
| † Coningbeg Lightship.                 | *North Arran ( <i>see</i> Arran). |
| § *Cromarty.                           | † North-West Lightship.           |
| † Daunts Rock Lightship.               | † Outer Dowsing Lightship.        |
| §¹ Eastbourne.                         | † Owers Lightship.                |
| † East Goodwin Lightship.              | § *Pennan Bay (Aberdour).         |
| † English and Welsh Grounds Lightship. | §⁴ Plymouth.                      |
| † Fastnet Rock Lighthouse.             | §⁵ Port Erin.                     |
|  | *Portrush.                        |

The observers are indicated thus :—\* Coastguard, † Lightkeepers, <sup>1</sup>S. R. Henderson, <sup>2</sup>F. M. Cotton, C.E., <sup>3</sup>W. J. Woodruff, <sup>4</sup>H. Victor Prigg, <sup>5</sup>Biological Station.

§ Stations marked thus send weekly returns for publication in the Weekly Weather Report.

LIST OF SEA TEMPERATURE STATIONS—*continued.*

|                                |                            |
|--------------------------------|----------------------------|
| † Royal Sovereign Lightship.   | † Smith's Knoll Lightship. |
| * St. Ann's Head, Pembroke.    | † Solway Lightship.        |
| § * Salcombe, Devon.           | † South Arklow Lightship.  |
| § * Scarborough.               | † South Rock Lightship.    |
| * Scilly Islands (St. Mary's). | † Spurn Lightship.         |
| § * Seafield, Co. Clare.       | * Stornoway.               |
| † Seven Stones Lightship.      | * Sunderland.              |
| † Shambles Lightship.          | § * Teelin, Co. Donegal.   |
| § * Sheephaven (Dunfanaghy).   | * Usan (Montrose).         |
| § † Shipwash Lightship.        | † Varne Lightship.         |
| † Skulmartin Lightship.        | § Wick.                    |

The observers are indicated thus :—\* Coastguard, † Lightkeepers.

§ Stations marked thus send weekly returns for publication in the Weekly Weather Report.

**LIST OF STATIONS in the COLONIES and DEPENDENCIES and in FOREIGN COUNTRIES from which RETURNS are received in MANUSCRIPT.**

NOTE.—Returns received in printed form are not included in this list.

| Station.                       | Latitude  | Longitude. | Height in Feet above M.S.L. | Order of Station. | Year of Commencement of Observations. | Observer.  |
|--------------------------------|-----------|------------|-----------------------------|-------------------|---------------------------------------|--|
| <b>MEDITERRANEAN.</b>          |           |            |                             |                   |                                       |  |
| Cyprus,* †Famagusta ... ...    | 35 7 N.   | 33 57 E.   | 34                          | II                | 1881                                  |  |
| " †Kyrenia ... ...             | 35 21 N.  | 33 19 E.   | 54                          | II                | 1881                                  |  |
| " †Larnaca ... ...             | 34 55 N.  | 33 37 E.   | 19                          | II                | 1881                                  |  |
| " †Limassol ... ...            | 34 40 N.  | 33 1 E.    | 26                          | II                | 1881                                  |  |
| " †Nicosia ... ...             | 35 11 N.  | 33 22 E.   | 493                         | II                | 1881                                  |  |
| " †Papho ... ...               | 34 46 N.  | 32 25 E.   | 202                         | II                | 1881                                  |  |
| Gibraltar ... ...              | 36 6 N.   | 5 21 W.    | 48                          | II                | 1883                                  | The Chief Medical Officer.   |
| Morocco, †Cape Spartel ... ... | 35 47 N.  | 5 55 W.    | 191                         | II                | 1893                                  | Colonial Secretary's Department.   |
| " Mogador ... ...              | 31 30 N.  | 9 42 W.    | 19                          | ●                 | 1903                                  | Edwin C. Hathaway, for Lloyds.   |
| " Saffi ... ...                | +32 17 N. | 9 8 W.     | 40                          | ●                 | 1905                                  | H. B. Johnstone, H.B.M. Vice-Consul.   |
| Syria, Beyrout ... ...         | 33 54 N.  | 35 28 E.   | 172                         | II                | 1883                                  | N. A. de Silva.  |
| Turkey, Smyrna ... ...         | 38 26 N.  | 27 9 E.    | 50                          | II                | 1908                                  | Abdullah Kasir and Zeki M. Heikal for the Director of the Syrian Protestant College. |
| <b>AFRICA.</b>                 |           |            |                             |                   |                                       |  |
| Central :—                     |           |            |                             |                   |                                       |  |
| Uganda, Bombo ... ...          | 0 34 N.   | 32 36 E.   | —                           | III               | 1911                                  |  |
| " Entebbe ... ...              | 0 4 N.    | 32 28 E.   | 3,863                       | III               | 1896                                  |  |
| " Fort Portal ... ...          | 0 43 N.   | 30 8 E.    | 5,299                       | III               | 1901                                  |  |
| " Gondokoro ... ...            | 4 51 N.   | 31 42 E.   | 1,500                       | III               | 1901                                  |  |
| " Gulu ... ...                 | 3 18 N.   | 33 34 E.   | —                           | III               | 1911                                  |  |
| " Jinja ... ...                | 0 26 N.   | 33 11 E.   | 3,722                       | III               | 1901                                  | M. T. Dawe, Director of the Scientific Department.                                   |

\* By arrangement with the Colonial Office and the Survey Department of Egypt the returns for these stations are sent in the first instance to the Survey Department for use in connexion with its Monthly Weather Report. They are sent to the Office for ultimate filing.

† The positions and heights of the stations are those given by the observers, except in cases marked †, for which the information given has been obtained from other sources.

‡ The Meteorological instruments in use at this Station are lent by the Meteorological Committee.

§ Rainfall Stations.

LIST OF STATIONS in the COLONIES, &c., from which RETURNS are received in MANUSCRIPT—*continued.*

| Station.                        | Latitude. | Longitude. | Height in Feet above M.S.L. | Order of Station. | Year of Commencement of Observations. | Observer.                  |
|---------------------------------|-----------|------------|-----------------------------|-------------------|---------------------------------------|----------------------------|
| <b>AFRICA—<i>continued.</i></b> |           |            |                             |                   |                                       |                            |
| Central— <i>continued.</i>      | °         | °          |                             |                   |                                       |                            |
| Uganda, Kampala                 | 0 19 N.   | 32 35 E.   | 3,905                       | III               | 1907                                  |                            |
| " Kawolongoja                   | 0 24 N.   | 32 11 E.   | 4,263                       | III               | 1910                                  |                            |
| " Kivuvu Kyagwe                 | 0 23 N.   | 32 47 E.   | ? 3,650                     | III               | 1910                                  |                            |
| " Masaka                        | 0 21 S.   | 31 47 E.   | ? 4,200                     | III               | 1902                                  |                            |
| " Masindi                       | 1 40 N.   | 31 50 E.   | 3,764                       | III               | 1906                                  |                            |
| " Mbale                         | 1 2 N.    | 34 6 E.    | ? 4,000                     | III               | 1907                                  |                            |
| " Mbarara                       | 0 31 S.   | 30 47 E.   | 4,500                       | III               | 1901                                  |                            |
| " Nimule                        | 3 39 N.   | 32 10 E.   | 2,034                       | III               | 1903                                  |                            |
| West:—                          |           |            |                             |                   |                                       |                            |
| Gold Coast, Aburi               | 5 50 N.   | 0 10 W.    | 556                         | III               | 1898                                  |                            |
| " Accra                         | 5 35 N.   | 0 6 W.     | 60                          | III               | 1893                                  |                            |
| " Addah                         | 5 50 N.   | 0 38 E.    | —                           | III               | 1895                                  |                            |
| " Axim                          | 4 50 N.   | 2 12 W.    | —                           | III               | 1895                                  |                            |
| " †Cape Coast Castle            | 5 15 N.   | 0 30 W.?   | —                           | III               | 1895                                  |                            |
| " Gambaga                       | 10 31 N.  | 0 26 W.    | —                           | III               | 1899                                  |                            |
| " Kintampo                      | 8 5 N.    | 1 30 W.    | —                           | III               | —                                     | Medical Department, Accra. |
| " Kumasi (Coomassie)            | 6 50 N.   | 2 16 W.    | 859                         | III               | 1899                                  |                            |
| " Kwitta (Keta)                 | 5 59 N.   | 0 59 E.    | —                           | III               | 1895                                  |                            |
| " Sekondi                       | 5 0 N.    | 1 40 W.    | 20                          | III               | 1904                                  |                            |
| " Sunyani                       | 7 22 N.   | 2 19 W.    | —                           | III               | 1908                                  |                            |
| " Tamale                        | 9 23 N.   | 0 50 W.    | —                           | III               | 1908                                  |                            |
| " Tarkwa (Tarquah)              | 5 11 N.   | 2 0 W.     | 245                         | III               | 1907                                  |                            |
| Northern Nigeria:—              |           |            |                             |                   |                                       |                            |
| Bauchi                          | 10 17 N.  | 9 49 E.    | 2,300                       | III               | 1907                                  |                            |
| Geidam (Dumjeri)                | 12 53 N.  | 11 57 E.   | 7,900                       | III               | 1907                                  |                            |
| Ilorin                          | 8 29 N.   | 4 32 E.    | 968                         | III               | 1907                                  |                            |
| Kano                            | 12 0 N.   | 8 33 E.    | 2,000                       | III               | 1907                                  |                            |
| Katagum                         | 12 17 N.  | 10 22 E.   | 108                         | III               | 1907                                  | The Secretariat, Zungeru.  |
| Keffi                           | 8 50 N.   | 7 52 E.    | —                           | III               | 1907                                  |                            |
| Kontagora                       | 10 24 N.  | 5 24 E.    | 1,300                       | III               | 1907                                  |                            |

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|                                       |           |           |        |        |      |  |
|---------------------------------------|-----------|-----------|--------|--------|------|--|
| Lokoja ... ... ... ...                | 7 48 N.   | 6 44 E.   | 270    | III    | 1907 |  |
| Maifoni (Maiduguri) ... ...           | 11 48 N.  | 13 12 E.  | 1,200  | III    | 1907 |  |
| Sokoto ... ... ... ...                | 13 1 N.   | 5 14 E.   | 1,160  | III    | 1907 |  |
| Yola ... ... ... ...                  | 9 12 N.   | 12 30 E.  | 850    | III    | 1907 |  |
| Zaria ... ... ... ...                 | 11 6 N.   | 7 48 E.   | 2,230  | III    | 1907 |  |
| Zungeru ... ... ... ...               | 9 49 N.   | 6 10 E.   | 580    | III    | 1907 |  |
| Sierra Leone ... ... ... ...          | 8 30 N.   | 13 9 W.   | 179    | II     | 1895 |  |
| Southern Rhodesia :—                  |           |           |        |        |      |  |
| Ringstead Reef (Essexvale) ...        | 20 0 S.   | 29 0 E.   | 4,496  | ●      | 1908 | Mrs. C. E. Fripp.  |
| Somaliland—                           |           |           |        |        |      |  |
| Berbera ... ... ... ...               | 10 22 N.  | 45 2 E.   | 30     | III    | 1908 |  |
| Sheik Camp Hospital ... ...           | 9 50 N.   | 45 16 E.  | 4,500  | III    | 1908 |  |
| Zaila ... ... ... ...                 | —         | —         | —      | III    | 1910 | A. W. Sofy.  |
| SOUTH AMERICA.                        |           |           |        |        |      |  |
| British Guiana, Georgetown ... ...    | 6 49 N.   | 58 8 W.   | 0      | ○      | 1906 |  |
| " " Mazaruni (Penal Settlement). .    | —         | —         | —      | ○      | 1908 | F. A. Stockdale, Government Botanist.                    |
| Venezuela, Guayanavieja (El Perú) ... | 7½ 0 N.   | 62 0 W.   | 1,000? | II B Θ | 1910 | Dr. E. H. Griffen, for the Goldfields of Venezuela, Ltd. |
| CHINA.                                |           |           |        |        |      |  |
| Chinkiang ... ... ... ...             | 32 13 N.  | 119 27 E. | 40     | II ○   | 1905 | Capt. Lewis H. Tamplin.                                  |
| NORTH ATLANTIC OCEAN.                 |           |           |        |        |      |  |
| Bermuda Dockyard ... ... ...          | 32 20 N.  | 64 51 W.  | 30     | —      | 1889 | Lieut. F. J. Evans, R.N.                                 |
| Bahamas, Nassau ... ... ...           | +25 2 N.  | 77 25 W.  | —      | III    | 1895 | R. W. D. Albury.   |
| " †*Abaco ... ... ...                 | 25 51 N.  | 77 11 W.  | 75     | II     | 1859 | S. W. Roberts  |
| " ‡*Cay Lobos ... ... ...             | 22 22 N.  | 77 35 W.  | —      | II     | 1877 | G. C. Pinder   |
| " ‡*Cay Sal ... ... ...               | 23 42 N.  | 80 25 W.  | 40     | II     | 1859 | G. L. Rodgers  |
| " ‡*Inagua ... ... ...                | 20 56 N.  | 73 41 W.  | 40     | II     | 1871 | E. J. Jones  |
| " ‡*Watling's Island ...              | 24 8 N.   | 74 26 W.  | 120    | II     | 1889 | T. R. Thompson   |
| Barbados .. ... ... ...               | +13 12 N. | 59 35 W.  | 181    | II     | 1895 | John R. Bovell, Superintendent Botanical Department.     |
| ‡*Sombrero ... ... ... ...            | 18 36 N.  | 63 28 W.  | 34     | II     | 1867 | A. L. Richardson, Lightkeeper, for the Board of Trade.   |

\* Lighthouse; contributes register containing observations every 4 hours.

† The positions and heights of the stations are those given by the observers, except in cases marked †, for which the information given has been obtained from other sources.

‡ The Meteorological instruments in use at this Station are lent by the Meteorological Committee.

LIST OF STATIONS in the COLONIES, &c., from which RETURNS are received in MANUSCRIPT—*continued.*

| Station.                                | Latitude. | Longitude. | Height in<br>Feet above<br>M.S.L. | Order<br>of<br>Station. | Year of<br>Commence-<br>ment of<br>Observations. | Observer.   |
|---|-----------|------------|-----------------------------------|-------------------------|--|---|
| <b>SOUTH ATLANTIC OCEAN.</b>            |           |            |                                   |                         |  |   |
| Falkland Islands :—                     | °   °     | °   °      |                                   |                         |  |   |
| *Cape Pembroke ... ... ...              | 51 41 S.  | 57 42 W.   | 70                                | II                      | 1859   | J. Pearce, Lightkeeper, for the Board of Trade.   |
| *Stanley... ... ...                     | —         | —          | —                                 | ○ B                     | —  | His Excellency the Governor.  |
| †St. Helena; St. Matthew's Vicarage ... | 16 0 S.   | 5 40 W.    | 1,887                             | II                      | 1885   | A. L. C. Hands.   |
| Central, Oak Bank ...                   | —         | —          | 1,696                             | ●                       | 1902   | J. Homagee.   |
| St. Paul's Vicarage ...                 | —         | —          | 1,694                             | ●                       | 1905   | Alfred Porter.  |
| South Georgia, Grytviken ...            | 54 14 S.  | 36 33 W.   | 10                                | II                      | 1906   | R. MacDougall, for the Argentine Fishery Company, transmitted by the Governor of the Falkland Islands through the Board of Trade. |
| <b>PACIFIC OCEAN.</b>                   |           |            |                                   |                         |  |   |
| British Solomon Islands :—              |           |            |                                   |                         |  |   |
| Tulagi ... ... ... ...                  | 9 5 S.    | 160 8 E.   | 7                                 | III                     | 1907   | F. J. Barnett.  |
| Fiji :—                                 |           |            |                                   |                         |  |   |
| Suva ... ... ... ...                    | 18 8 S.   | 178 0 E.   | 44                                | II                      | 1906   | C. H. Knowles, Superintendent Department of Agriculture.  |
| Fanning Island ... ... ... ...          | 3 54 N.   | 159 23 W.  | —                                 | III                     | 1903   | The Pacific Cable Board.  |
| Malden Island ... ... ... ...           | 3 59 S.   | 155 0 W.   | —                                 | II                      | —  | C. Karlson and P. E. Usher.   |
| †Ocean Island ... ... ... ...           | 0 52 S.   | 169 36 E.  | 91                                | II B.                   | 1905   | J. S. Marsh, for the Pacific Phosphate Company.   |
| <b>INDIAN OCEAN.</b>                    |           |            |                                   |                         |  |   |
| Madagascar :—                           |           |            |                                   |                         |  |   |
| Antananarivo ... ... ... ...            | 18 55 S.  | 47 30 E.   | —                                 | ●                       | 1903   | T. P. Porter, H.B.M. Consul.  |
| Mauritius, Royal Alfred Observatory ... | 20 6 S.   | 57 31 E.   | 181                               | (I)                     | 1901   | T. F. Claxton, Director.  |

\* Lighthouse; contributes register containing observations every 4 hours.

† The Meteorological instruments in use at this Station are lent by the Meteorological Committee.

EIGHTH ANNUAL REPORT  
OF THE  
METEOROLOGICAL COMMITTEE  
TO THE  
LORDS COMMISSIONERS OF HIS MAJESTY'S  
TREASURY.

For the Year ended 31st March, 1913  
(*the Fifty-eighth Year of the Meteorological Office*).

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

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*Reports of Inspections.*

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## CLIMATOLOGICAL STATIONS.

|                           |                    |                 |
|---------------------------|--------------------|-----------------|
| Ashburton.                | Egremont.          | Markree Castle. |
| Aspatria.                 | Foynes.            | Mayfield.       |
| Bellingham.               | Garforth.          | Mountmellick.   |
| Bennington.               | Guernsey           | Newcastle       |
| Braemar.                  | (Brooklyn).        | (Wicklow).      |
| Brighton (Preston).       | Guernsey           | Newton-Forbes.  |
| Bristol.                  | (Villa Carey).     | Plymouth.       |
| Cheadle.                  | Gwernyfed Park,    | Princetown.     |
| Chelmsford.               | Halstead.          | Redruth.        |
| Cheltenham.               | Hampstead.         | Salcombe.       |
| Clongowes Wood            | Kilkenny.          | Sandown.        |
| College.                  | Killarney.         | Scaleby.        |
| Cockle Park<br>(Morpeth). | Killeston.         | Seathwaite.     |
| Colmonell.                | Lincoln.           | Shrewsbury.     |
| Dorchester.               | Little Massingham. | Skegness.       |
| Dublin (Phoenix<br>Park). | Llanberis.         | Southampton.    |
| Dumfries.                 | Llangammarch       | Tavistock.      |
| Dundee.                   | Wells.             | Tynemouth.      |
| Durham.                   | Macclesfield.      | Ushaw.          |
|                           | Malvern.           | Welshpool.      |

Mr. H. Harries inspected the station at Gibraltar, from which daily reports are received by wireless telegraphy through the courtesy of the Lords Commissioners of the Admiralty.

Previous reports have been followed by a series of appendices giving a list of observing ships, a statement of the provisions for the supply of information to the public including a list of stations, publications, and other matters, a list of institutions in various parts of the globe from which meteorological data are received, and a list of institutions and persons to whom copies of the publications of the Office are sent. These appendices have generally been issued as separate pamphlets, revised as soon the report was issued, so that two editions have been made in the course of the year. It is thought that it will be more convenient for the matter to be dealt with by the issue of the separate pamphlets which can then be brought up to date irrespective of the date of issue of the report.

W. N. SHAW.

Meteorological Office.

*Chairman.*

July 16, 1913.