

DWR Telegraphic Station Lists in Met Office Annual Reports

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REPORT OF THE METEOROLOGIC OFFICE.

No. 8.

BOARD OF TRADE INSTRUMENTS, &c.

Date.	Disposable at Outports.	Compasses.	Barometers.	Thermometers, (sets of 6 each).	Hydrometers, (sets of 4 each).	Screens.	Registers.	Instructions.	Charts, "B. T."	Directions.	Aeroids.	Fishery Barometers.	Rain Gages.
1 Jan. '63	Liverpool	-	7	9	11	4	7	15	2	2 sets	1		
"	Glasgow	-	3	2	1	3	4	1	11	510 sheets	2		
"	Hull	-	4	6	1	—	3	28	6	5 sets	2		
"	Greenock	-	3	4	1	1½	1	—	2	3 "	2		
"	Leith	-	1	4	3	2	2	33	—	3 "	1		
"	Bristol	-	3	4	4	3	7	6	2	{ 7 " 297 sheets }	—	1	1
"	Belfast	-	3	2	3	5	4	26	3	—	3		
"	Southampton	-	3	2	3	5	4	—	—	—	—	—	1

PLACES SUPPLIED.

Bahamas Lighthouse, Falklands Lighthouse, Demerara Observatory, Western Australia, Edinburgh Training College, Fiji Islands, Trinity Steamers, Belle Isle Lighthouse, Cape of Good Hope Observatory, Natal, Bahia, Hakodate, Australia, Tasmania, China and Japan Surveys, Trinidad, Singapore, Fernando Po, Zambesi Expedition, Navigator and Society Islands, Gortin.

FISHERY BAROMETERS.—Gorey, Newlyn, Portreath, Mousehole, Cawsand Bay, Dover, Hull, Bridlington, Filey, Scarborough, Beadnell, Fleetwood, Maryport, Newhaven, Anstruther, St. Andrew's, Broughty Ferry, Arbroath, Findon, Rosehearty, Gardenstown, Portlethen, Whitehills, Portnockie, Portessie, Sandhaven, Nairn, Portmahomack, Lybster, Burra Orkney, Sandsair, Lerwick, Peel, Dundalk, Hartlepool, Dingle, Valentia, Kingsdown, Mevagissey, Gorleston, Lossiemouth, Flamboro', Dunfanagh, Port Isaac, Budleigh, Salterton, Gorranhaven, Lough Swilly, Wick, Burnham, Crail, Staithes, Lynn, Swansea, Dungarvan, Deal, Penryn, Falmouth, Milford Haven, Howth, St. Helen's, Sarclet, Burghhead, Stranraer, Burntisland, Morecambe.

TELEGRAPH STATIONS.—Nairn, Aberdeen, Portrush, Galway, Valencia, Queenstown, Yarmouth, Portsmouth, Plymouth, Penzance, Jersey, Alderney, Leith, Ardrossan, North Shields, Scarboro', Portland, Heligoland, Pembroke, Holyhead, Roche Point.

2. 4. 63.	Office	-	-	16	45	1	55	8	—	—	—	2	5	2
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Opticians have under Repair.

8. 7. 62.	Adie	-	-	—	1									
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Opticians are preparing by direction.

2. 4. 63.	Afloat	-	-	45	93	82	60	—	—	—	Self-registering Thermometer.	Wind Gages.	3	2
"	Fixed	-	-	3	96	30	4	—	—	—	46	7	14	55
.	Total	-	-	48	189	112	6½	—	—	—	46	9	17	57

of the Royal Society for 1867.

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INSTRUMENTS supplied to the Mercantile Marine.

—	Barometers.	Compasses.	Thermometers.	Hydrometers.
Jan. 1, 1867, afloat -	46	18	226	133
Issued in 1867 -	48	12	268	174
	94	30	494	307
Returned in 1867 including damaged instruments) -	36	12	162	87
Jan. 1, 1868, afloat -	58	18	332	220

As regards the amount of information which reached the office, the number of Meteorological documents received in 1867 was 68, being a decrease of 59 on the number sent in during the previous year.

Of these documents 41 were reports from foreign lighthouse stations, &c., so that only 27 were *bond fide* Meteorological Registers.

The number of merchant ships supplied was 37 as against 24 in 1866. It appears from the foregoing return that a larger number of instruments was issued than would be required for that number of ships. The discrepancy arises from the fact that some of the instruments were supplied to the steam companies for their respective vessels, and were not actually at sea before December 31.

In App. IV. will be found a list of the Meteorological documents received in the course of the year 1867.

The Committee have thought it best, for the present, not to be too anxious to collect information, inasmuch as the staff at their disposal for its discussion is already entirely insufficient, for some time at least, to complete the investigation of the materials already accumulated in the office.

II.—TELEGRAPHIC WEATHER INFORMATION.

The issue of daily telegraphic weather reports had been set on foot by Admiral FitzRoy in the year 1860 (See his Report published in 1862). The main features of the plan were as follows : A number of stations situated on the coasts of the British Islands, and possessing telegraphic communication with London, were selected, and arrangements were made with the Electric and the Magnetic Telegraph Companies, for observations to be made at these stations by their officers at 8 a.m. and reported daily to London. The instruments supplied were two barometers (Kew pattern), two ordinary thermometers, a maximum and a minimum thermometer and a rain gauge. The number of these stations at present in operation in Great Britain and Ireland is 18, viz., nine in England (North Shields, Scarborough, Yarmouth, London, Portsmouth, Weymouth, Plymouth, Penzance, and Liverpool), one in Wales (Holyhead), four in Ireland (Greencastle, Valencia, Cape Clear, and Roche's Point at the

mouth of Cork harbour), and four in Scotland (Nairn, Aberdeen, Leith, and Ardrossan).

Up to the date at which the Committee assumed the superintendence of the office, no inspection of any kind had been undertaken with the view of ascertaining either the position of the instruments at these stations, or the capability of the observers to report correctly. The stations were all visited in the course of last summer, and were found to be in urgent need of inspection. In three instances the thermometers were kept under the roof of a railway station, and in one case in a box which was almost completely closed. Thermometers were found coated with dust, and as for the wet bulb thermometer it was only properly managed at one station. In one case this latter instrument was found completely coated with carbonate of lime, and in another with its bulb totally immersed in water. The wind reports were given sometimes by true and sometimes by magnetic bearings, while the force was estimated by the merest guess work. In several instances, the clerks stated that they had never received any instruction in this special duty of reporting, and were totally unaware that their reports were necessarily untrustworthy owing to the situation of their instruments.

Since the date of the inspection the quality of the reports received has improved to a remarkable extent, and there is fair reason to hope for still greater improvement.

In addition to the information derived from British sources, arrangements have been made with the French authorities for the regular interchange of meteorological intelligence.

M. Le Verrier, to whose unceasing efforts the establishment of international telegraphy is in a great measure due, has organized a system by means of which he receives reports from various European stations for publication in the daily bulletin of the Observatoire Impérial.

To him the office has sent reports daily from Nairn, Scarborough, Yarmouth, Penzance, Valencia, and Greencastle, and, in addition, an afternoon report from Valencia, and it sends also by telegraph to the Ministry of Marine in Paris a daily abstract of the information received from British stations.

In return for these services the office receives from M. Le Verrier daily reports from Skudenesnaes, the Helder, and Corunna, and from the Ministry of Marine reports from Brest, Lorient, and Rochefort.

On application being made to M. Le Verrier in the month of November to furnish information from stations situated in the interior of the continent, he has with the utmost readiness acceded to the request, and has promised daily reports from Paris, Brussels, Strasbourg, and Lyons, only requiring in return an afternoon report from Greencastle.*

* This system was set in operation at the beginning of January, and since that date the Ministry of Marine has also readily consented to send reports from three additional stations, viz., Cape Gris Nez, Biarritz, and Cape Sicié near Toulon, without requiring any additional information in return.

of the Royal Society for 1868.

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INSTRUMENTS lost or destroyed in Merchant Ships or at private Stations.

—	Barometers.	Compasses.	Thermometers.	Hydrometers.
In 1867 - - -	11	2	106	30
In 1868 - - -	11	2	157	82
In two years - - -	22	4	263	112

DISPOSITION of Board of Trade Instruments on the 1st January 1869.

Where.	Baro-meters.	Com-passes.	Thermometers.			Hydro-meters.
			Ordinary.	Max.	Min.	
In merchant ships -	60	12	393	—	—	254
In naval ships -	—	—	101	—	—	3
In use at stations -	101	7	254	40	39	55
In store at M.O. -	82	18	218	12	13	118
" Queenstown -	—	—	12	—	—	—
" Gibraltar -	—	—	12	—	—	—
" Bermuda -	1	—	—	—	—	—
At Southampton agency -	2	2	48	—	—	20
" Bristol -	4	5	6	—	—	14
" Liverpool -	13	7	64	—	—	60
" Belfast -	2	3	18	—	—	21
" Hull -	8	5	8	—	—	—
" Leith -	4	1	23	—	—	12
" Greenock -	1	2	6	—	—	2
" Glasgow -	1	3	1	—	—	12
Totals - - -	279	65	1,164	52	52	571

Deep sea Thermometers.—On the 1st January 1869 there were 49 of these instruments on service in the Navy, and one in a merchant ship.

APPENDIX V.

LIST of STATIONS reporting Meteorological Observations by Telegraph to the Office, with the Observers.

Nairn - - -	W. D. Penny - - -	Schoolmaster.
Aberdeen - - -	J. Gibson - - -	Telegraph Superintendent.
Leith - - -	T. Bolton - - -	Telegraph Clerk.
Shields - - -	T. Allaway - - -	Do.
Scarborough - - -	F. Shaw - - -	Do.
Yarmouth - - -	T. Robinson - - -	Do.
Ardrossan - - -	W. McNeil - - -	Do.
Greencastle - - -	J. Kelly - - -	Do.
Holyhead - - -	J. Andrews - - -	Do.
Liverpool - - -	S. Jones - - -	Do.
Valencia - - -	E. O'Sullivan - - -	Do.
Cape Clear - - -	G. Griffin - - -	Do.
Roches Point - - -	W. Kennedy - - -	Do.
Pembroke - - -	J. C. Walker - - -	Do.
Penzance - - -	J. Senior - - -	Do.
Plymouth - - -	W. Pinchin - - -	Do.
Portsmouth - - -	T. Hardy - - -	Do.
London* - - -	Clerks in Meteorological Office.	
Heart's Content -	J. Weedon - - -	Telegraph Superintendent.

* Reports not sent by telegraph.

of the Royal Society for 1869.

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APPENDIX V.

**LIST of STATIONS reporting Meteorological Observations by Telegraph
to the Office, with the Observers.**

Thurso*	-	-	J. Trotter	-	-	-	-	
Wick	-	-	J. Sandison	-	-	-	-	Postmaster.
Nairn	-	-	W. D. Penny	-	-	-	-	Schoolmaster.
Aberdeen	-	-	J. Gibson	-	-	-	-	Telegraph Superintendent.
Leith	-	-	T. Bolton	-	-	-	-	Telegraph Clerk.
Shields	-	-	T. Allaway	-	-	-	-	Do.
Scarborough	-	-	F. Shaw	-	-	-	-	Do.
Yarmouth	-	-	T. Robinson	-	-	-	-	Do.
Ardrossan	-	-	W. McNeil	-	-	-	-	Do.
Greencastle	-	-	J. Kelly	-	-	-	-	Do.
Holyhead	-	-	J. Andrews	-	-	-	-	Do.
Liverpool	-	-	S. Jones	-	-	-	-	Do.
Valencia	-	-	E. O'Sullivan	-	-	-	-	Do.
Cape Clear	-	-	G. Griffin	-	-	-	-	Do.
Roche's Point	-	-	W. Kennedy	-	-	-	-	Do.
Pembroke	-	-	J. C. Walker	-	-	-	-	Do.
Penzance	-	-	J. Senior	-	-	-	-	Do.
Plymouth	-	-	W. Piuchin	-	-	-	-	Do.
Portsmouth	-	-	T. Hardy	-	-	-	-	Do.
London†	-	-	Clerks in Meteorological Office					
Heart's Content	-	-	J. Weedon	-	-	-	-	Telegraph Superintendent.

* This station has been added since 31st December 1869.

+ Reports not sent by telegraph.

APPENDIX VI.

LIST of Persons, Places, &c. to which the Daily Weather Report is supplied.

Newspapers :

Daily News.

Echo.

Express.

Express Globe.

*Lloyd's Shipping List.

Egyptian Observer.

*Pall Mall.

*Fall Mall Gazette.
Shipping and Mer

**Shipping and Mercantile Gazette.
Standard (Morning and Evening).**

**Standard (Morning and Evening).
Times (1st and 3rd edition).**

Times (1st and 2nd edition).

For Exhibition at following Seaports:

Banff.	Hayle.
Belfast.	Hull.
Blackpool.	*Newquay.
Buckie.	Port Dinorwic.
Carnarvon.	Porthcawl.
Cromer.	Silloth.
Cullen.	Teignmouth.
Exeter (2 copies).	Ventnor.
Great Grimsby.	

* Added since 31st December 1869.

of the Royal Society for 1870.

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APPENDIX VI.

LIST of STATIONS reporting Meteorological Observations by Telegraph to the Office, with the Observers.

Thurso	-	-	-	J. Trotter	-	-	-	-	Postmaster.
Wick	-	-	-	J. Sandison	-	-	-	-	Schoolmaster.
Nairn	-	-	-	W. D. Penny	-	-	-	-	Telegraph Superintendent.
Aberdeen	-	-	-	J. Gibson	-	-	-	-	Telegraph Clerk.
Leith	-	-	-	T. Bolton	-	-	-	-	Do.
Shields	-	-	-	J. Irvine	-	-	-	-	Do.
Scarborough	-	-	-	F. Shaw	-	-	-	-	Telegraph Clerk.
Yarmouth	-	-	-	T. Robinson	-	-	-	-	Do.
Ardrossan	-	-	-	W. McNeil	-	-	-	-	Do.
Greencastle	-	-	-	J. McGladery	-	-	-	-	Do.
Holyhead	-	-	-	T. Slater	-	-	-	-	Do.
Liverpool	-	-	-	S. Jones	-	-	-	-	Do.
Valencia	-	-	-	E. O'Sullivan	-	-	-	-	Do.
Roche's Point	-	-	-	W. Kennedy	-	-	-	-	Do.
Pembroke	-	-	-	J. C. Walker	-	-	-	-	Do.
Scilly	-	-	-	W. Thomas	-	-	-	-	Postmaster.
Penzance*	-	-	-	J. G. Uren	-	-	-	-	Teacher of Navigation.
Plymouth	-	-	-	J. Merrifield, F.R.A.S.	-	-	-	-	____
Portsmouth	-	-	-	J. Hoar	-	-	-	-	____
Dover	-	-	-	J. Costello	-	-	-	-	Telegraph Clerk.
London†	-	-	-	Clerks in Meteorological Office	-	-	-	-	____
Heart's Content	-	-	-	J. Weedon	-	-	-	-	Telegraph Superintendent.

* Discontinued after 1st April 1871.

† Reports not sent by telegraph.

APPENDIX VII.

LIST of Persons, Places, &c. to which the Daily Weather Report is supplied.

Newspapers :

Daily News.
 Echo.
 Express.
 Globe.
 Lloyd's Shipping List.
 Observer.
 Pall Mall Gazette.
 Shipping and Mercantile Gazette.
 Standard (Morning and Evening).
 Times (1st and 2nd editions).

For Exhibition at following Seaports :

Banff.	Hayle.
Belfast.	Hull.
Blackpool.	Newquay.
Buckie.	Port Dinorwic.
Carnarvon.	Porthcawl.
Cromer.	St. Ann's Head.
Cullen.	Silloth.
Exeter (2 copies).	Teignmouth.
Falmouth.	Ventnor.
Great Grimsby.	

58 *Appendix to Report of the Meteorological Committee***APPENDIX VI.****LIST of STATIONS reporting Meteorological Observations by Telegraph to the Office, with the Observers.**

Sumburgh Head	-	W. Lawrence	-	-	-	
Thurso	-	J. Trotter	-	-	-	—
Wick	-	J. Sandison	-	-	-	Postmaster.
Nairn	-	W. D. Penny	-	-	-	Schoolmaster.
Aberdeen	-	J. McCormack	-	-	-	Telegraph Clerk.
Leith	-	T. Bolton	-	-	-	Do.
Shields	-	J. Irvine	-	-	-	Do.
Scarborough	-	F. Shaw	-	-	-	Do.
Yarmouth	-	T. Robinson	-	-	-	—
Ardrossan	-	W. McNeil	-	-	-	Telegraph Clerk.
Moville	-	J. McGladery	-	-	-	Do.
Holyhead*	-	T. Slater	-	-	-	Do.
Liverpool	-	J. Hartrup, junr.	-	-	-	Liverpool Observatory.
Valencia	-	E. O'Sullivan	-	-	-	Telegraph Clerk.
Roche's Point	-	W. Kennedy	-	-	-	Do.
Pembroke	-	J. C. Walker	-	-	-	Do.
Scilly	-	W. Thomas	-	-	-	—
Plymouth	-	J. Merrifield, F.R.A.S.	-	-	-	Teacher of Navigation.
Portsmouth	-	J. Hoar	-	-	-	—
Dover	-	J. Costello	-	-	-	Telegraph Clerk.
London†	-	Clerks in Meteorological Office				—

* By Mr. Williams, Harbour Office, after 1st April 1872.

† Reports not sent by telegraph.

APPENDIX VII.**LIST of Persons, Places, &c. to which the Daily Weather Report has been supplied to 31st December.***Newspapers :*

Daily News.
 Echo.
 Express.
 Globe.
 Lloyd's Shipping List.
 Mark Lane Express.
 Mechanics' Magazine.
 Observer.
 Pall Mall Gazette.
 Shipping and Mercantile Gazette.
 Standard (Morning and Evening).
 Times (1st and 2nd editions).

For Exhibition at following Seaports :

Banff.	Hull.
Belfast.	Newquay.
Blackpool.	Plymouth.
Boscastle.	Port Dinorwic.
Buckie.	Porthcawl.
Carnarvon.	St. Ann's Head.
Cromer.	Scarboro'.
Cullen.	Silloth.
Exeter (2 copies).	Teignmouth.
Falmouth.	Ventnor.
Great Grimsby.	Yarmouth.
Hayle.	

APPENDIX VII.

LIST of STATIONS reporting Meteorological Observations by Telegraph to the Office, with the Observers.

Sumburgh Head	-	W. Lawrence	-	-	-	Schoolmaster.
Stornoway	-	J. Smith	-	-	-	Gardener.
*Thurso	-	J. Trotter	-	-	-	—
Wick	-	J. Sinclair	-	-	-	Watchmaker.
Nairn	-	W. D. Penny	-	-	-	Schoolmaster.
Aberdeen	-	J. McCormack	-	-	-	Telegraph Clerk.
Leith	-	T. Bolton	-	-	-	Do.
Shields	-	J. Irvine	-	-	-	Do.
*Scarborough	-	E. Shaw	-	-	-	Do.
York	-	C. Wakefield	-	-	-	Curator of Museum.
Nottingham	-	E. J. Lowe, F.R.S.	-	-	-	Highfield Ho. Observatory.
Ardrossan	-	W. McNeil	-	-	-	Telegraph Clerk.
*Greencastle(Moville)	-	J. McGladery	-	-	-	Do.
Donaghadee	-	J. MacGowan, jr.	-	-	-	Do.
Kingstown	-	G. Mitchell	-	-	-	—
*Holyhead	-	J. Tilston	-	-	-	—
Liverpool	-	J. Hartnup, junr.	-	-	-	Liverpool Observatory.
*Valencia	-	E. O'Sullivan	-	-	-	Telegraph Clerk.
Roche's Point	-	W. Kennedy	-	-	-	Do.
Pembroke	-	J. C. Walker	-	-	-	Do.
Portishead	-	W. Sandford	-	-	-	—
*Scilly	-	W. Thomas	-	-	-	—
Plymouth	-	J. Merrifield, F.R.A.S.	-	-	-	Teacher of Navigation.
Portsmouth	-	J. Hoar	-	-	-	—
Dover	-	J. Costello	-	-	-	Telegraph Clerk.
*London	-	F. Gaster, F.M.S.	-	-	-	—
Oxford	-	J. Lucas	-	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	-	Observatory.
Yarmouth	-	G. T. Watson	-	-	-	—

Summary :

England and Wales	-	-	-	16
Scotland	-	-	-	8
Ireland	-	-	-	5

Those marked with an asterisk, report twice daily. The office also receives daily reports from 18 places on the Continent (including two from Denmark).

APPENDIX VIII.

LIST of Persons, Places, &c. to which the Daily Weather Report has been supplied, free of cost, to 31st December.

Newspapers :

- Daily News.
- Echo.
- Express.
- Globe.
- Imperial Beacon.
- Lloyds' Shipping List.
- Mark Lane Express.
- Mechanics' Magazine.
- Morning Advertiser.
- Observer.
- Pall Mall Gazette.
- Shipping and Mercantile Gazette (with special daily chart).
- Standard (Morning and Evening).
- Times (1st and 2nd editions).

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APPENDIX VII.

LIST OF STATIONS reporting Meteorological Observations by Telegraph to the Office, with the Observers.

†Sumburgh Head	-	W. Lawrence	-	-	-	Schoolmaster.
Stornoway	-	J. Smith	-	-	-	Gardener.
*Thurso	-	J. Trotter	-	-	-	—
Wick	-	J. Sinclair	-	-	-	Watchmaker.
Nairn	-	W. D. Penny	-	-	-	Schoolmaster.
Aberdeen	-	J. McCormack	-	-	-	Telegraph Clerk.
Leith	-	J. Turnbull	-	-	-	Do.
Shields	-	J. Irvine	-	-	-	Do.
*Scarborough	-	E. Shaw	-	-	-	Do.
York	-	C. Wakefield	-	-	-	Curator of Museum.
Nottingham	-	E. J. Lowe, F.R.S.	-	-	-	Highfield Ho. Observatory.
Ardrossan	-	W. McNeil	-	-	-	Telegraph Clerk.
*Greencastle(Moville)	-	J. McGladery	-	-	-	Do.
Donaghadee	-	J. MacGowan, jr.	-	-	-	Do.
Kingstown	-	G. Mitchell	-	-	-	Keeper of Sailor's Home.
*Holyhead	-	J. Tilston	-	-	-	Do.
Liverpool	-	J. Hartnup, junr.	-	-	-	Bidston Observatory.
*Valencia	-	E. O'Sullivan	-	-	-	Telegraph Clerk.
Roche's Point	-	W. Kennedy	-	-	-	Do.
Pembroke	-	J. C. Walker	-	-	-	Do.
Portishead	-	W. Sandford	-	-	-	Station master.
*Scilly	-	W. Thomas	-	-	-	Signalman.
Plymouth	-	J. Merrifield, LL.D., F.R.A.S.	-	-	-	Teacher of Navigation.
†Portsmouth	-	J. Hoar	-	-	-	—
Dover	-	J. Costello	-	-	-	Telegraph Clerk.
*London	-	F. Gaster, F.M.S.	-	-	-	—
Oxford	-	J. Lucas	-	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	-	Observatory.
Yarmouth	-	G. T. Watson	-	-	-	Secretary, Sailor's Home.

Summary:

England and Wales	-	-	-	16
Scotland	-	-	-	8
Ireland	-	-	-	5

Those marked with an asterisk, report twice daily. The office also receives daily reports from 22 places on the Continent.

† Communication interrupted since September 1873.

‡ Replaced by Hurst Castle, 28th March 1874; Observer, T. Jobbins, Telegraph Clerk.

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APPENDIX VII.

LIST of STATIONS reporting Meteorological Observations by Telegraph to the Office, with the Observers.

Sumburgh Head	-	W. Lawrence	-	-	-	Schoolmaster.
Stornoway	-	J. Smith	-	-	-	Gardener.
*Thurso	-	J. Trotter	-	-	-	—
Wick	-	J. Sinclair	-	-	-	Watchmaker.
Nairn	-	W. D. Penny	-	-	-	Schoolmaster.
Aberdeen	-	J. McCormack	-	-	-	Telegraph Clerk.
Leith	-	J. Turnbull	-	-	-	Do.
Shields	-	J. Irvine	-	-	-	Do.
*Scarborough	-	F. Shaw, F.M.S.	-	-	-	Do.
York	-	C. Wakefield	-	-	-	Curator of Museum.
Nottingham	-	E. J. Lowe, F.R.S.	-	-	-	Highfield Ho. Observatory
Ardrossan	-	W. McNeil	-	-	-	Telegraph Clerk.
*Greencastle(Moville)	-	J. McGladery	-	-	-	Do.
Donaghadee	-	J. MacGowan, jr.	-	-	-	Do.
Kingstown	-	G. Mitchell	-	-	-	Keeper of Sailor's Home.
*Holyhead	-	J. Tilston	-	-	-	Do.
Liverpool	-	J. Hartnup, junr.	-	-	-	Bidston Observatory.
*Valencia	-	E. O'Sullivan	-	-	-	Telegraph Clerk.
Roche's Point	-	W. Kennedy	-	-	-	Do.
Pembroke	-	J. C. Walker	-	-	-	Do.
Portishead	-	W. Sandford	-	-	-	Station master.
*Scilly	-	W. Thomas	-	-	-	Signalman.
Plymouth	-	J. Merrifield, LL.D., F.R.A.S.	-	-	-	Teacher of Navigation.
Hurst Castle	-	R. T. Jobbins	-	-	-	Telegraph Clerk.
Dover	-	J. Costello	-	-	-	Telegraph Clerk.
*London	-	F. Gaster, F.M.S.	-	-	-	—
Oxford	-	J. Lucas	-	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	-	Observatory.
Yarmouth	-	G. T. Watson	-	-	-	Secretary, Sailor's Home.

Summary:

England and Wales	-	-	-	16
Scotland	-	-	-	8
Ireland	-	-	-	5

Those marked with an asterisk, report twice daily. The office also receives daily reports from 22 places on the Continent.

40 *Appendix to Report of the Meteorological Committee*

APPENDIX VII.

LIST of STATIONS reporting Meteorological Observations by Telegraph to the Office, with the Observers.

Sumburgh Head	-	Rev. W. Brand	-	-	Minister.
Stornoway	-	J. Smith	-	-	Gardener.
*Thurso	-	J. Trotter	-	-	Watchmaker.
Wick	-	J. Sinclair	-	-	Schoolmaster.
Nairn	-	W. D. Penny	-	-	Telegraph Clerk.
Aberdeen	-	J. McCormack	-	-	Do.
Leith	-	J. Turnbull	-	-	Do.
Shields	-	J. Irvine	-	-	Do.
*Scarborough	-	F. Shaw, F.M.S.	-	-	Do.
York	-	C. Wakefield	-	-	Curator of Museum.
Nottingham	-	E. J. Lowe, F.R.S.	-	-	Highfield Ho. Observatory.
Ardrossan	-	W. McNeil	-	-	Telegraph Clerk.
*Greencastle(Moville)	-	J. Lowry	-	-	Schoolmaster.
Donaghadee	-	J. MacGowan, jr.	-	-	Telegraph Clerk.
Kingstown	-	G. Mitchell	-	-	Keeper of Sailors' Home.
*Holyhead	-	J. Tilston	-	-	Do.
Liverpool	-	J. Hartnup, junr.	-	-	Bidston Observatory.
*Valencia	-	E. O'Sullivan	-	-	Telegraph Clerk.
Roche's Point	-	W. Kennedy	-	-	Do.
Pembroke	-	J. C. Walker	-	-	Do.
Portishead	-	W. Sandford	-	-	Station master.
*Scilly	-	W. Thomas	-	-	Signalman.
Plymouth	-	J. Merrifield, LL.D., F.R.A.S.	-	-	Teacher of Navigation.
Hurst Castle	-	R. T. Jobbins	-	-	Telegraph Clerk.
Dover	-	J. Costello	-	-	Telegraph Clerk.
*London	-	F. Gaster, F.M.S.	-	-	Radcliffe Observatory.
Oxford	-	J. Lucas	-	-	Observatory.
Cambridge	-	H. Todd	-	-	Secretary, Sailors' Home.
Yarmouth	-	G. T. Watson	-	-	

Summary :

England and Wales	-	-	-	16
Scotland	-	-	-	8
Ireland	-	-	-	5

Those marked with an asterisk, report twice daily. The office also receives daily reports from 22 places on the Continent, and is organizing an interchange with Germany which will probably add several other stations to the list.

of the Royal Society.

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APPENDIX VII.

LIST of STATIONS reporting Meteorological Observations by Telegraph to the Office, with the Observers.

Sumburgh Head	-	Rev. W. Brand	-	-	-	Minister of Dunrossness.
Stornoway	-	J. Smith	-	-	-	Gardener.
*Thurso	-	J. Trotter	-	-	-	Watchmaker.
Wick	-	J. Sinclair	-	-	-	Schoolmaster.
Nairn	-	W. D. Penny	-	-	-	Telegraph Clerk.
Aberdeen	-	J. McCormack	-	-	-	Do.
Leith	-	J. Turnbull	-	-	-	Do.
Shields	-	J. Irvine	-	-	-	Do.
*Scarborough	-	F. Shaw, F.M.S.	-	-	-	Curator of Museum.
York	-	C. Wakefield	-	-	-	Highfield Ho. Observatory.
Nottingham	-	E. J. Lowe, F.R.S.	-	-	-	Telegraph Clerk.
Ardrossan	-	W. McNeil	-	-	-	Schoolmaster.
*Greencastle(Moville)	-	J. Lowry	-	-	-	Telegraph Clerk.
Donaghadee	-	J. MacGowan, jr.	-	-	-	Keeper of Sailors' Home.
Kingstown	-	G. Mitchell	-	-	-	Do.
*Holyhead	-	J. Tilston	-	-	-	Bidston Observatory.
Liverpool	-	J. Hartnup, junr.	-	-	-	Superintendent of the Observatory.
*Valencia	-	† J. E. Cullum	-	-	-	Telegraph Clerk.
Roche's Point	-	W. Kennedy	-	-	-	Do.
Pembroke	-	J. C. Walker	-	-	-	Station master.
Portishead	-	W. Sandford	-	-	-	Signalman.
*Scilly	-	W. Thomas	-	-	-	Teacher of Navigation.
Plymouth	-	J. Merrifield, LL.D., F.R.A.S.	-	-	-	Telegraph Clerk.
Hurst Castle	-	A. James	-	-	-	Telegraph Clerk.
Dover	-	J. Costello	-	-	-	Telegraph Clerk.
*London	-	F. Gaster, F.M.S.	-	-	-	Radcliffe Observatory.
Oxford	-	J. Lucas	-	-	-	Observatory.
Cambridge	-	H. Todd	-	-	-	Secretary, Sailors' Home.
Yarmouth	-	G. T. Watson	-	-	-	

† E. O'Sullivan, the former Observer, resigned in June 1876.

Summary :

England and Wales	-	-	-	16
Scotland	-	-	-	8
Ireland	-	-	-	5

Those marked with an asterisk, report twice daily. The office also receives daily reports from 22 places on the Continent.

Appendix VI.

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APPENDIX VI.

LIST of STATIONS reporting Meteorological Observations by Telegraph to the Office, with the Observers.

Sumburgh Head	-	Rev. W. Brand	-	-	Minister of Dunrossness.
Sternoway	-	J. Sutherland	-	-	Schoolmaster.
*Thurso	-	J. Trotter	-	-	—
Wick	-	J. Sinclair	-	-	Watchmaker.
Nairn	-	W. D. Penny	-	-	Schoolmaster.
Aberdeen	-	J. McCormack	-	-	Telegraph Clerk.
Leith	-	J. Turnbull	-	-	Do.
Shields	-	J. Irvine	-	-	Do.
*Scarborough	-	F. Shaw, F.M.S.	-	-	Do.
York	-	C. Wakefield	-	-	Curator of Museum.
Nottingham	-	E. J. Lowe, F.R.S.	-	-	Highfield Ho. Observatory.
Ardrossan	-	W. McNeil	-	-	Telegraph Clerk.
*Greencastle(Moville)	-	J. Lowry	-	-	Schoolmaster.
Donaghadee	-	J. MacGowan, jr.	-	-	Telegraph Clerk.
Kingstown	-	G. Mitchell	-	-	Keeper of Sailors' Home.
*Holyhead	-	J. Tilston	-	-	Do.
Liverpool	-	J. Harrup, junr.	-	-	Bidston Observatory.
*Valencia	-	J. E. Cullum	-	-	Superintendent of the Observatory.
Roche's Point	-	W. Kennedy	-	-	Telegraph Clerk.
Pembroke	-	J. C. Walker	-	-	Do.
Portishead	-	W. Sandford	-	-	—
*Scilly	-	W. Thomas	-	-	Signalman.
Plymouth	-	J. Merrifield, LL.D., F.R.A.S.	-	-	Teacher of Navigation.
Hurst Castle	-	T. Lanceley	-	-	Lightkeeper.
Jersey	-	J. Fisher	-	-	Signalman.
Dover	-	J. Costello	-	-	Telegraph Clerk.
*London	-	F. Gaster, F.M.S.	-	-	—
Oxford	-	J. Lucas	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	Observatory.
Yarmouth	-	G. T. Watson	-	-	Secretary, Sailors' Home.

Summary:

England and Wales	-	-	-	17
Scotland	-	-	-	8
Ireland	-	-	-	5

* Those marked with an asterisk report twice daily. The Office also receives daily reports from 22 places on the Continent.

APPENDIX VI.

LIST OF STATIONS reporting Meteorological Observations by Telegraph to the Office, with the Observers.

Sumburgh Head	-	Rev. W. Brand	-	-	Minister of Dunrossness.
†*Stornoway	-	J. Sutherland	-	-	Schoolmaster.
Thurso	-	J. Trotter	-	-	— (1)
Wick	-	J. Sinclair	-	-	Watchmaker.
Nairn	-	W. D. Penny	-	-	Schoolmaster.
†*Aberdeen	-	J. McCormack	-	-	Telegraph Clerk.
Leith	-	J. Turnbull	-	-	Do.
†*Shields	-	J. Irvine	-	-	Do.
Scarborough	-	F. Shaw, F.M.S.	-	-	Do.
York	-	Dr. Purves	-	-	Museum.
Nottingham	-	E. J. Lowe, F.R.S.	-	-	Highfield House Observatory.
†Ardrossan	-	W. McNeil	-	-	Telegraph Clerk.
Greencastle (Moville)	-	J. Lowry	-	-	Schoolmaster. (2)
†*Mullaghmore	-	K. Kerr	-	-	Coastguard Chief Boatman. (3)
Donaghadee	-	J. MacGowan, jr.	-	-	Telegraph Clerk.
Kingstown	-	G. Mitchell	-	-	Keeper of Sailors' Home.
†*Holyhead	-	J. Tilston	-	-	Do.
Liverpool	-	J. Hartnup, junr.	-	-	Bidston Observatory.
†*Valencia	-	J. E. Cullum	-	-	Superintendent of the Observatory.
Roche's Point	-	W. Kennedy	-	-	Telegraph Clerk.
Pembroke	-	J. C. Walker	-	-	Do.
Portishead	-	W. Sandford	-	-	— (4)
†*Scilly	-	W. Thomas	-	-	Signalman.
Plymouth	-	J. Merrifield, LL.D., F.M.S.	-	-	Teacher of Navigation. (5)
Prawle Point	-	W. Blackler	-	-	Coastguard Officer. (6)
Hurst Castle	-	T. Lanceley	-	-	Lightkeeper.
Jersey	-	J. Fisher	-	-	Signalman.
Dover	-	J. Costello	-	-	Telegraph Clerk.
†*London	-	F. Gaster, F.M.S.	-	-	—
Oxford	-	C. A. Jenkins	-	-	Radcliffe Observatory
Cambridge	-	H. Todd	-	-	Observatory.
†*Yarmouth	-	G. T. Watson	-	-	Secretary, Sailors' Home.

(1) Ceased reporting April 16, 1879; (2) Ceased reporting March 24, 1879; (3) Commenced reporting November 11, 1878; (4) Commenced reporting October 30, 1878; (5) Ceased reporting December 31, 1878. (6) Commenced reporting January 1, 1879.

It will be seen from the above list that the stations are being re-organised, and in addition to the alterations shown in the Table a station is being established at Spurn Head in lieu of that at Scarborough, which is too much sheltered from Northerly, Westerly, and Southerly winds.

Summary of Stations Reporting at the Close of the Financial year.

England and Wales	-	-	-	16
Scotland	-	-	-	7
Ireland	-	-	-	5

The Foreign stations are 24 in number; viz., in SWEDEN and NORWAY, Haparanda, Hernösand, Stockholm, Wisby, Christiansund, Skudenæs* and Oxö; in DENMARK, the Seaw and Fanö; in N. GERMANY, Cuxhaven; in HOLLAND, Groningen, the IJssel, and Flushing; in BELGIUM, Brussels; and in FRANCE, Cape Gris Nez, Brest (St. Mathieu), Lorient (Grognon), Rochefort* (Ile d'Aix), Biarritz, Toulon (Cape Sicié), Charleville, Paris, and Lyons; in SPAIN, Corunna.

Note.—Those marked with an asterisk (*) report at 2 p.m. also; and those with a dagger (†) at 6 p.m.

APPENDIX VI.

LIST of STATIONS reporting Meteorological Observations by Telegraph to the Office, with the Names of Observers.

Sumburgh Head	-	Rev. W. Brand	-	-	Minister of Dunrossness.
†*Stornoway	-	J. Sutherland	-	-	Schoolmaster.
Wick	-	J. Sinclair	-	-	Watchmaker.
Nairn	-	W. D. Penny	-	-	Schoolmaster.
†*Aberdeen	-	J. McCormack	-	-	Telegraph Clerk.
Leith	-	J. Turnbull (¹)	-	-	Do.
†*Shields	-	J. Irvine	-	-	Do.
Scarborough	-	F. Shaw, F.M.S.	-	-	Do. (²)
Spurn Head	-	J. Siber	-	-	Assistant Lightkeeper. (³)
York	-	Dr. Purves	-	-	Museum.
Nottingham	-	E. J. Lowe, F.R.S.	-	-	Highfield House Observatory.
†*Ardrossan	-	W. McNeil (⁴)	-	-	Telegraph Clerk.
†*Mullaghmore	-	K. Kerr	-	-	Coastguard Officer.
Donaghadee	-	J. MacGowan, jr.	-	-	Telegraph Clerk.
Kingstown	-	G. Mitchell	-	-	Keeper of Sailors' Home. (⁵)
Parsonstown	-	W. Harding	-	-	Assistant Observer at Lord Rosse's Observatory. (⁶)
†*Holyhead	-	J. Tilston	-	-	Keeper of Sailors' Home.
Liverpool	-	J. Hartnup, junr.	-	-	Bidston Observatory.
†*Valencia	-	J. E. Cullum	-	-	Superintendent of the Observatory.
Roche's Point	-	W. Kennedy	-	-	Telegraph Clerk.
Pembroke	-	J. C. Walker	-	-	Do.
†*Scilly	-	W. Thomas	-	-	Signalman.
Prawle Point	-	W. Blackler	-	-	Coastguard Officer.
†Hurst Castle	-	T. Lanceley	-	-	Lightkeeper. (⁷)
Jersey	-	J. Fisher	-	-	Signalman.
Dover	-	J. Costello	-	-	Telegraph Clerk.
†*London	-	F. Gaster, F.M.S.	-	-	
Oxford	-	H. E. Bellamy	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	Observatory.
†*Yarmouth	-	G. T. Watson	-	-	Secretary, Sailors' Home.
†Hawes Junction	-	G. Wooding	-	-	Station Master. (⁸)

Note.—Those stations marked with an asterisk (*) report also at 0h. 45m. p.m. (in lieu of 2 p.m.); and those with a dagger (†) at 6 p.m.

(¹) Died on 5th March 1880; succeeded by Mr. Hutchison. (²) Ceased reporting on June 30, 1879. (³) Spurn Head began reporting on June 1, 1879. (⁴) Mr. McNeil resigned in July 1879, and was succeeded by Mr. Carrick, telegraph clerk. (⁵) Ceased reporting January 1880. (⁶) Commenced reporting January 1880. (⁷) Mr. Lanceley resigned in December 1879, and was succeeded by Mr. G. G. Appleton, the new lightkeeper at Hurst. (⁸) High Level Station, 1,135 feet above the sea; began reporting at the end of January 1880.

It will be seen from the above list that the stations have been re-organised. Spurn Head is now working in lieu of Scarborough, which was too much sheltered from northerly, westerly, and southerly winds. Kingstown has ceased reporting, and in lieu thereof a station has been established at Birr Castle, the inland parts of Ireland not having been represented previously.

Summary of Stations in the British Islands reporting at the Close of the Financial year.

England and Wales (with Jersey)	-	17
Scotland	-	7
Ireland	-	5

Arrangements have been made for the establishment of a new station at Barrow-in-Furness. The whole cost of this will be borne by the Barrow-in-Furness Railway Company. The station commenced reporting on April 1, 1880.

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APPENDIX VI.

List of STATIONS reporting Meteorological Observations by Telegraph to the Office on 31st March 1881, with the Names of Observers.

*†Sumburgh Head -	Rev. W. Brand	-	-	-	Minister of Dunrossness.
*†Stornoway -	J. Sutherland	-	-	-	Schoolmaster.
Wick -	J. Sinclair	-	-	-	Watchmaker.
Nairn -	W. D. Penny	-	-	-	Schoolmaster.
*†Aberdeen -	J. McCormack	-	-	-	Telegraph Clerk.
Leith -	J. Hutchison	-	-	-	Do.
*†Shields -	J. W. Irvine	-	-	-	Do.
Spurn Head -	J. Sibert	-	-	-	Assistant Lightkeeper.
†York -	W. Keeping, M.A.	-	-	-	Museum.
Nottingham -	E. J. Lowe, F.R.S.	-	-	-	Highfield House Observatory.
†Ardrossan -	G. Carrick	-	-	-	Telegraph Clerk.
*†Mullaghmore -	K. Kerr	-	-	-	Coastguard Officer.
Donaghadee -	T. MacGowan	-	-	-	Telegraph Clerk.
Parsonstown -	G. Phillips	-	-	-	Assistant Observer at Lord Rosse's Observatory.
Barrow-in-Furness -	W. S. Whitworth	-	-	-	Engineer, Barrow-in-Furness Railway.
*†Holyhead -	J. Tilston	-	-	-	Keeper of Sailors' Home.
Liverpool -	J. Hartnup, junr.	-	-	-	Bidston Observatory.
*†Valencia -	J. E. Cullum	-	-	-	Superintendent of the Observatory.
Roche's Point -	W. Kennedy	-	-	-	Telegraph Clerk.
Pembroke -	Messrs. Blake and Baker	-	-	-	Lightkeepers.
*†Scilly -	W. Thomas	-	-	-	Signalman.
Prawle Point -	J. John	-	-	-	Coastguard Officer.
†Hurst Castle -	G. G. Appleton	-	-	-	Lightkeeper.
†Jersey -	J. Fisher	-	-	-	Signalman.
*†Dover -	J. Costello	-	-	-	Telegraph Clerk.
*†London -	F. Gaster, F.M.S.	-	-	-	Clerk, Meteorological Office.
Oxford -	H. E. C. Bellamy	-	-	-	Radcliffe Observatory.
Cambridge -	H. Todd	-	-	-	Observatory.
*†Yarmouth -	G. T. Watson	-	-	-	Secretary, Sailors' Home.
†Hawes Junction -	G. Wooding	-	-	-	Station Master.

Note.—Those stations marked with an asterisk (*) report also at 2h. p.m.; and those with a dagger (†) at 6h. p.m.

Appendix VI.

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APPENDIX VI.

LIST OF STATIONS reporting Meteorological Observations by Telegraph to the Office on 31st March 1882, with the Names of Observers.

*†Sumburgh Head -	Rev. W. Brand	-	-	-	Minister of Dunrossness.
*†Stornoway -	A. MacDonald	-	-	-	Schoolmaster.
Wick -	J. Sinclair	-	-	-	Watchmaker.
Nairn -	W. D. Penny	-	-	-	Schoolmaster.
*†Aberdeen -	J. McCormack	-	-	-	Telegraph Clerk.
Leith -	J. Hutchison	-	-	-	Do.
*†Shields -	J. W. Irvine	-	-	-	Do.
Spurn Head -	J. B. Smith	-	-	-	Assistant Lightkeeper.
†York -	W. Keeping, M.A., F.G.S.	-	-	-	Museum.
Nottingham -	E. J. Lowe, F.R.S.	-	-	-	Highfield House Observatory.
†Ardrossan -	J. W. Mayes	-	-	-	Telegraph Clerk.
*†Mullaghmore -	K. Kerr	-	-	-	Coastguard Officer.
Donaghadee -	T. MacGowan	-	-	-	Telegraph Clerk.
Parsonstown -	G. Phillips	-	-	-	Assistant Observer at Lord Rosse's Observatory.
Barrow-in-Furness -	W. S. Whitworth	-	-	-	Engineer, Barrow-in-Furness Railway.
*†Holyhead -	J. Tilston	-	-	-	Keeper of Sailors' Home
Liverpool -	J. Hartnup, junr.	-	-	-	Bidston Observatory.
*†Valencia -	J. E. Cullum	-	-	-	Superintendent of the Observatory.
Roche's Point -	W. Kennedy	-	-	-	Telegraph Clerk.
Pembroke -	Messrs. Blake and Baker	-	-	-	Lightkeepers.
*†Scilly -	W. Thomas	-	-	-	Signalman.
Prawle Point -	J. John	-	-	-	Coastguard Officer.
†Hurst Castle -	G. G. Appleton	-	-	-	Lightkeeper.
†Jersey -	J. Fisher	-	-	-	Signalman.
*†Dover -	J. Costello	-	-	-	Telegraph Clerk.
*†London -	F. Gaster, F.M.S.	-	-	-	Clerk, Meteorological Office.
Oxford -	H. E. C. Bellamy	-	-	-	Radcliffe Observatory.
Cambridge -	H. Todd	-	-	-	Observatory.
*†Yarmouth -	G. T. Watson	-	-	-	Secretary, Sailors' Home.
†Hawes Junction -	W. Foster	-	-	-	Station Master.

Note.—Those stations marked with an asterisk (*) report also at 2h. p.m.; and those with a dagger (†) at 6h. p.m.

APPENDIX VI.

List of STATIONS reporting Meteorological Observations by Telegraph to the Office on 31st March 1883, with the Names of Observers.

*†Sumburgh Head	-	Rev. W. Brand	-	-	Minister of Dunrossness.
*†Stornoway	-	D. MacDonald	-	-	Late Officer S.S. "Great Eastern."
Wick	-	J. Sinclair	-	-	Watchmaker.
Nairn	-	W. D. Penny	-	-	Schoolmaster.
*†Aberdeen	-	J. McCormack	-	-	Telegraph Clerk.
Leith	-	W. Hay	-	-	Do.
*†Shields	-	J. W. Irvine	-	-	Do.
Spurn Head	-	J. B. Smith	-	-	Assistant Lightkeeper.
†York	-	W. Keeping, M.A., F.G.S.	-	-	Museum.
Loughboro'	-	W. Berridge, F.M.S.	-	-	
†Ardrossan	-	J. W. Mayes	-	-	Telegraph Clerk.
*†Mullaghmore	-	K. Kerr	-	-	Coastguard Officer.
Donaghadee	-	T. MacGowan	-	-	Telegraph Clerk.
Parsonstown	-	G. Phillips	-	-	Assistant Observer at Lord Rosse's Observatory.
Barrow-in-Furness	-	W. S. Whitworth	-	-	Engineer, Barrow-in-Furness Railway.
*†Holyhead	-	? J. Tilston	-	-	Keeper of Sailors' Home.
Liverpool	-	J. Hartnup, junr.	-	-	Bidston Observatory.
*†Valencia	-	J. E. Cullum	-	-	Superintendent of the Observatory.
Roche's Point	-	W. Kennedy	-	-	Telegraph Clerk.
Fenbrooke	-	Messrs. Blake and Baker	-	-	Lightkeepers.
*†Scilly	-	W. Thomas	-	-	Signalman.
Prawle Point	-	J. John	-	-	Coastguard Officer.
†Hurst Castle	-	G. G. Appleton	-	-	Lightkeeper.
†Jersey	-	J. Fisher	-	-	Signalman.
*†Dover	-	J. Costello	-	-	Telegraph Clerk.
*†London	-	F. Gaster, F.M.S.	-	-	Clerk Meteorological Office.
Oxford	-	W. Wickham	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	Observatory.
*†Yarmouth	-	G. T. Watson	-	-	Secretary, Sailors' Home.
†Hawes Junction	-	W. Foster	-	-	Station Master.

Note.—Those stations marked with an asterisk (*) report also at 2h. p.m.; and those with a dagger (†) at 6h. p.m.

APPENDIX VI.

LIST of STATIONS reporting Meteorological Observations by Telegraph to the Office on 31st March 1881, with the Names of Observers.

*†Sumburgh Head	-	Rev. W. Brand	-	-	-	Minister of Dunrossness.
*†Stornoway	-	D. MacDonald	-	-	-	Late Officer S.S. "Great Eastern."
Wick	-	J. Sinclair	-	-	-	Watchmaker.
Nairn	-	W. D. Penny	-	-	-	Schoolmaster.
*†Aberdeen	-	J. McCormack	-	-	-	Telegraph Clerk.
Leith	-	W. Hay	-	-	-	Do.
*†Shields	-	J. W. Irvine	-	-	-	Do.
Spurn Head	-	J. B. Smith	-	-	-	Assistant Lightkeeper.
†York	-	H. M. Platnauer	-	-	-	Curator of Museum.
Loughhead	-	W. Berridge, F.R. Met. Soc.	-	-	-	
†Ardrossan	-	J. W. Mayes	-	-	-	Telegraph Clerk.
*†Mullaghmore	-	K. Kerr	-	-	-	Coastguard Officer.
Donaghadee	-	T. MacGowan	-	-	-	Telegraph Clerk.
Parsonstown	-	G. Phillips	-	-	-	Assistant Observer at Lord Rosse's Observatory.
Barrow-in-Furness	-	W. S. Whitworth	-	-	-	Engineer, Barrow-in-Furness Railway.
*†Holyhead	-	Griffith Jones	-	-	-	Keeper of Sailors' Home.
Liverpool	-	J. Hartung, junr.	-	-	-	Bidston Observatory.
*†Valencia	-	J. E. Cullum	-	-	-	Superintendent of the Observatory.
Roche's Point	-	W. Kennedy	-	-	-	Telegraph Clerk.
Fenbroke	-	Messrs. Blake and Baker	-	-	-	Lightkeepers.
*†Scilly	-	W. Thomas	-	-	-	Signalman.
Prawle Point	-	J. John	-	-	-	Coastguard Officer.
†Hurst Castle	-	G. G. Appleton	-	-	-	Lightkeeper.
†Jersey	-	J. Fisher	-	-	-	Signalman.
*†Dover	-	J. Costello	-	-	-	Telegraph Clerk.
*†London	-	F. Gaster, F.R. Met. Soc.	-	-	-	Clerk, Meteorological Office.
Oxford	-	W. Wickham	-	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	-	Observatory.
*†Yarmouth	-	G. T. Watson	-	-	-	Secretary, Sailors' Home.
†Hawes Junction	-	W. Foster	-	-	-	Station Master.

Note.—Those stations marked with an asterisk (*) report also at 2h. p.m.; and those with a dagger (†) at 6h. p.m.

The Council are making arrangements to establish stations at Belmullet, Co. Mayo; Malin Head, Co. Donegal; and Dungeness, Kent.

Appendix VI.

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APPENDIX VI.

LIST of STATIONS reporting Meteorological Observations by Telegraph to the Office on 31st March 1885, with the Names of Observers.

*†Sumburgh Head	-	Rev. W. Brand	-	-	-	Minister of Dunrossness.
*†Stornoway	-	D. MacDonald	-	-	-	Late Officer S.S. "Great Eastern."
Wick	-	J. Sinclair	-	-	-	Watchmaker.
Nairn	-	W. D. Penny	-	-	-	Schoolmaster.
*†Aberdeen	-	J. McCormack	-	-	-	Telegraph Clerk.
Leith	-	W. Hay	-	-	-	Do.
*†Shields	-	J. W. Irvine	-	-	-	Do.
Spurn Head	-	J. B. Smith	-	-	-	Assistant Lightkeeper.
†York	-	H. M. Platnauer	-	-	-	Curator of Museum.
Loughboro'	-	W. Berridge, F.R.Met.Soc.	-	-	-	
†Ardrossan	-	J. W. Mayes	-	-	-	Telegraph Clerk.
Malin Head	-	P. O'D. Farren	-	-	-	Signalman, Lloyd's.
*†Muiraghmore	-	K. Kerr	-	-	-	Retired Coastguard Officer.
*†Belmullet	-	Miss M. J. Tolan	-	-	-	Telegraphist.
Donaghadee	-	T. MacGowan	-	-	-	Telegraph Clerk.
Parsonstown	-	B. Budds	-	-	-	Assistant Observer at Lord Rosse's Observatory.
Barrow-in-Furness	-	W. S. Whitworth	-	-	-	Engineer, Barrow-in-Furness Railway.
*†Holyhead	-	C. Durham	-	-	-	Keeper of Sailors' Home.
Liverpool	-	J. Hartnup, junr.	-	-	-	Bidston Observatory.
*†Valencia	-	J. E. Cullum	-	-	-	Superintendent of the Observatory.
Roche's Point	-	W. Kennedy	-	-	-	Telegraph Clerk.
Pembroke	-	Messrs. Blake and Baker	-	-	-	Lightkeepers.
*†Scilly	-	W. Thomas	-	-	-	Signalman.
Prawle Point	-	J. John	-	-	-	Coastguard Officer.
†Hurst Castle	-	G. G. Appleton	-	-	-	Lightkeeper.
†Jersey	-	J. Fisher	-	-	-	Signalman.
*†Dungeness	-	P. Curnow	-	-	-	Lightkeeper.
*†London	-	F. Gaster, F.R. Met. Soc.	-	-	-	Clerk, Meteorological Office.
Oxford	-	W. Wickham	-	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	-	Observatory.
*†Yarmouth	-	G. T. Watson	-	-	-	Secretary, Sailors' Home.
†Hayes Junction	-	W. Foster	-	-	-	Station Master.

Note.—Those stations marked with an asterisk (*) report also at 2h. p.m.; and those with a dagger (†) at 6h. p.m. † This station now reports by post only.

Appendix V.

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APPENDIX V.

LIST of STATIONS reporting Meteorological Observations by Telegraph to the Office on 31st March 1886, with the Names of Observers.

*†Sumburgh Head	-	Rev. W. Brand	-	-	-	Minister of Dunrossness.
*†Stornoway	-	D. MacDonald	-	-	-	Late Officer S.S. "Great Eastern."
Wick	-	J. Sinclair	-	-	-	Watchmaker.
Nairn	-	Miss Penny	-	-	-	Schoolmistress. §
*†Aberdeen	-	J. McCormack	-	-	-	Telegraph Clerk.
Leith	-	W. Hay	-	-	-	Do.
*†Shields	-	J. W. Irvine	-	-	-	Do.
Spurn Head	-	J. B. Smith	-	-	-	Assistant Lightkeeper.
†York	-	H. M. Platnauer, F.G.S.	-	-	-	Curator of Museum.
Loughboro'	-	W. Berridge, F.R.Met.Soc.	-	-	-	
†Ardrossan	-	J. W. Mayes	-	-	-	Telegraph Clerk.
Malin Head	-	P. O'D. Farren	-	-	-	Signalman, Lloyd's.
*†Muliaghmore	-	K. Kerr	-	-	-	Retired Coastguard Officer.
*†Belmullet	-	Miss M. J. Tolan	-	-	-	Telegraphist.
Donaghadee	-	T. MacGowan	-	-	-	Telegraph Clerk.
Parsonstown	-	B. Budds	-	-	-	Assistant Observer at Lord Rosse's Observatory.
Barrow-in-Furness	-	W. S. Whitworth	-	-	-	Engineer, Barrow-in-Furness Railway.
*†Holyhead	-	Capt. Richards	-	-	-	Keeper of Sailors' Home.
Liverpool	-	J. Hartnup, F.R.Met.Soc.	-	-	-	Bidston Observatory.
*†Valencia	-	J. E. Cullum	-	-	-	Superintendent of the Observatory.
Roche's Point	-	W. Kennedy	-	-	-	Telegraph Clerk.
Pembroke	-	Messrs. Blake and Spicer	-	-	-	Lightkeepers.
*†Scilly	-	W. Thomas	-	-	-	Signalman.
Prawle Point	-	J. John	-	-	-	Coastguard Officer.
†Hurst Castle	-	G. G. Appleton	-	-	-	Lightkeeper.
†Jersey	-	J. Fisher	-	-	-	Signalman.
*†Dungeness	-	P. Currow	-	-	-	Lightkeeper.
*†London	-	F. Gaster, F.R.Met.Soc.	-	-	-	Clerk, Meteorological Office.
Oxford	-	W. Wickham	-	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	-	Observatory.
*†Yarmouth	-	G. T. Watson	-	-	-	Secretary, Sailors' Home.
†Hawes Junction	-	W. H. Bunce	-	-	-	Station Master.

Note.—Those stations marked with an asterisk (*) report also at 2h. p.m.; and those with a dagger (†) at 6h. p.m.

† This station now reports by post only.

§ Mr. Penny died in 1885.

APPENDIX V.

LIST of STATIONS reporting Meteorological Observations by Telegraph to the Office on 31st March 1887, with the Names of Observers.

*†Sumburgh Head	-	Rev. W. Brand	-	-	-	Minister of Dunrossness.
*†Stornoway	-	D. MacDonald§	-	-	-	Late Officer S.S. "Great Eastern."
Wick	-	J. Sinclair	-	-	-	Watchmaker.
Nairn	-	Miss Penny	-	-	-	School mistress.
*†Aberdeen	-	J. McCormack	-	-	-	Telegraph Clerk.
Leith	-	W. Hay	-	-	-	Do.
*†Shields	-	J. W. Irvine	-	-	-	Do.
Spura Head	-	J. B. Smith	-	-	-	Assistant Lightkeeper.
†York	-	H. M. Platnauer, F.G.S.	-	-	-	Curator of Museum.
Loughboro'	-	W. Berridge, F.R.Met.Soc.	-	-	-	
†Ardrossan	-	J. W. Mayes	-	-	-	Telegraph Clerk.
Malin Head	-	P. O'D. Farren	-	-	-	Signalman, Lloyd's.
*†Mulaghmore	-	K. Kerr	-	-	-	Retired Coastguard Officer.
*†Belmullet	-	Miss M. J. Tolau	-	-	-	Telegraphist.
†Donaghadee	-	T. MacGowan	-	-	-	Postmaster.
Parsonstown	-	B. Budds	-	-	-	Assistant Observer at Lord Rosse's Observatory.
Barrow-in-Furness	-	W. S. Whitworth	-	-	-	Engineer, Barrow-in-Furness Railway.
*†Holyhead	-	Capt. Richards	-	-	-	Keeper of Sailors' Home.
Liverpool	-	J. Hartnup, F.R.Met.Soc.	-	-	-	Bidston Observatory.
*†Valencia	-	J. E. Cullum	-	-	-	Superintendent of the Observatory.
†Roche's Point	-	W. Kennedy	-	-	-	Telegraph Clerk.
Pembroke	-	Messrs. Blake and Spicer	-	-	-	Lightkeepers.
*†Scilly	-	W. Thomas	-	-	-	Signalman.
Prawle Point	-	J. John	-	-	-	Coastguard Officer.
†Harst Castle	-	G. G. Appleton	-	-	-	Lightkeeper.
†Jersey	-	J. Fisher	-	-	-	Signalman.
*†Dungeness	-	P. Curnow	-	-	-	Lightkeeper.
*†London	-	F. Gaster, F.R.Met.Soc.	-	-	-	Clerk, Meteorological Office.
Oxford	-	W. Wickham	-	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	-	Observatory.
*†Yarmouth	-	G. T. Watson	-	-	-	Secretary, Sailors' Home.
†Hawes Junction	-	W. H. Bunce	-	-	-	Station Master.

Note.—Those stations marked with an asterisk (*) report also at 2h. p.m.; and those with a dagger (†) at 6h. p.m.

† This station now reports by post only.

§ Mr. MacDonald died on 12th March 1887; Mr. J. Forbes of Nicolson Institution took charge of the instruments on 21st of May.

|| Since removed to another C. G. station.

APPENDIX V.

List of STATIONS reporting Meteorological Observations to the Office by Telegraph on 31st March 1888, with the Names of Observers.

*†Sumburgh Head	-	Rev. W. Brand	-	-	Minister of Dunrossness.
*†Stornoway	-	J. Forbes	-	-	Nicolson Institution.
Wick	-	J. Sinclair	-	-	Watchmaker.
Nairn	-	Miss Penny	-	-	School mistress.
*†Aberdeen	-	J. McCormack [§]	-	-	Telegraph Clerk.
Leith	-	W. Hay	-	-	Do.
*†Shields	-	J. W. Irvine	-	-	Do.
Spurn Head	-	J. B. Smith	-	-	Assistant Lightkeeper.
†York	-	H. M. Platnauer, F.G.S.	-	-	Curator of Museum.
Loughboro'	-	W. Berridge, F.R.Met.Soc.	-	-	
†Ardrossan	-	J. W. Mayes	-	-	Telegraph Clerk.
Malin Head	-	J. O'D. Farren	-	-	Signalman, Lloyd's.
*†Mullaghmore	-	K. Kerr	-	-	Retired Coastguard Officer.
*†Belmullet	-	Miss M. J. Tolan	-	-	Telegraphist.
†Donaghadee	-	T. MacGowan	-	-	Postmaster.
Parsonstown	-	W. Harding	-	-	Assistant Observer at Lord Rosse's Observatory.
Barrow-in-Furness	-	W. S. Whitworth	-	-	Engineer, Barrow-in-Furness Railway.
*†Holyhead	-	Capt. Richards	-	-	Keeper of Sailors' Home.
Liverpool	-	J. Hartnup, F.R.Met.Soc.	-	-	Bidston Observatory.
*†Valencia	-	J. E. Cullum	-	-	Superintendent of the Observatory.
†Roche's Point	-	W. Kennedy	-	-	Telegraph Clerk.
Pembroke	-	S. Blake	-	-	Lightkeeper.
*†Scilly	-	W. Thomas	-	-	Signalman.
Prawle Point	-	W. Hewitt	-	-	Coastguard Officer.
†Hurst Castle	-	G. G. Appleton	-	-	Lightkeeper.
†Jersey	-	J. Fisher	-	-	Signalman.
*†Dungeness	-	I. Curnow	-	-	Lightkeeper.
*†London	-	F. Gaster, F.R.Met.Soc.	-	-	Clerk, Meteorological Office.
Oxford	-	W. Wickham	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	Observatory.
*†Yarmouth	-	G. T. Watson	-	-	Secretary, Sailors' Home.
†Hawes Junction	-	W. H. Bunce	-	-	Station Master

Note.—Those stations marked with an asterisk (*) report also at 2h. p.m.; and those with a dagger (†) at 6h. p.m.

† This station now reports by post only.

§ Since dead. Mr. W. Boswell, of the Aberdeen Observatory, has been appointed observer in his stead.

Appendix V.

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APPENDIX V.

LIST of STATIONS reporting Meteorological Observations to the Office
by Telegraph on 31st March 1889, with the Names of Observers.

*†Sumburgh Head	-	Rev. W. Brand	-	-	-	Minister of Dunrossness.
*†Stornoway	-	J. Forbes	-	-	-	Nicolson Institution.
Wick	-	J. Sinclair	-	-	-	Watchmaker.
Nairn	-	Miss Penny	-	-	-	School mistress.
*†Aberdeen	-	W. Boswell	-	-	-	Assistant at the Observatory.
Leith	-	W. Hay	-	-	-	Telegraph Clerk.
*†Shields	-	J. W. Irvine	-	-	-	Do.
Spurn Head	-	J. B. Smith	-	-	-	Assistant Lightkeeper.
†York	-	H. M. Platnauer, F.G.S.	-	-	-	Curator of Museum.
Loughboro'	-	W. Berridge, F.R.Met.Soc.	-	-	-	
†Ardrossan	-	J. W. Mayes	-	-	-	Telegraph Clerk.
Malin Head	-	P. O'Doherty§	-	-	-	Signalman, Lloyd's.
*†Mullaghmore	-	K. Kerr	-	-	-	Retired Coastguard Officer.
*†Belmullet	-	Miss M. J. Tolan	-	-	-	Telegraphist.
†Donaghadee	-	T. MacGowan	-	-	-	Postmaster.
Parsonstown	-	— Haines	-	-	-	Assistant Observer at Lord Rosse's Observatory.
Barrow-in-Furness	-	W. S. Whitworth	-	-	-	Engineer, Barrow-in-Furness Railway.
*†Holyhead	-	Capt. Richards	-	-	-	Keeper of Sailors' Home.
Liverpool	-	J. Hartnup, F.R.Met.Soc.	-	-	-	Bidston Observatory.
*†Valencia	-	J. E. Cullum	-	-	-	Superintendent of the Observatory.
†Roche's Point	-	W. Kennedy	-	-	-	Telegraph Clerk.
Pembroke	-	S. Blake	-	-	-	Lightkeeper.
*†Scilly	-	W. Thomas	-	-	-	Signalman.
Prawle Point	-	W. Hewitt	-	-	-	Coastguard Officer.
†Hurst Castle	-	G. G. Appleton	-	-	-	Lightkeeper.
†Jersey	-	J. Fisher	-	-	-	Signalman.
*†Dungeness	-	P. Curnow	-	-	-	Lightkeeper.
*†London	-	F. Gaster, F.R.Met.Soc.	-	-	-	Clerk, Meteorological Office.
Oxford	-	W. Wickham	-	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	-	Observatory.
*†Yarmouth	-	G. T. Watson	-	-	-	Secretary, Sailors' Home.
†Hawes Junction	-	W. H. Bunce	-	-	-	Station Master.

Note.—Those stations marked with an asterisk (*) report also at 2h. p.m.; and those with a dagger (†) at 6h. p.m.

† This station now reports by post only.

§ Mr. J. O'D. Farren left.

|| Mr. Curnow has now been removed to another lighthouse.

Appendix VI.

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APPENDIX VI.

LIST OF STATIONS reporting Meteorological Observations to the Office by Telegraph on 31st March 1890, with the Names of Observers.

*†Sumburgh Head	Rev. W. Brand	-	-	Minister of Dunrossness.
*†Stornoway	J. Forbes	-	-	Nicolson Institution.
Wick	J. Sinclair	-	-	Watchmaker.
Nairn	Miss Penny	-	-	Schoolmistress.
*†Aberdeen	W. Boswell	-	-	Assistant at the Observatory.
Leith	W. Hay	-	-	Telegraph Clerk.
*†Shields	J. W. Irvine	-	-	Do.
Spurn Head	J. H. Watson	-	-	Lightkeeper.
†York	H. M. Platnauer, F.G.S.	-	-	Curator of Museum.
Loughboro'	W. Berridge	-	-	
†Ardrossan	J. W. Mayes	-	-	Telegraph Clerk.
Malin Head	O. O'Doherty	-	-	Signalman, Lloyd's.
*†Mullaghmore	K. Kerr	-	-	Retired Coastguard Officer.
*†Belmullet	Miss M. J. Tolan	-	-	Telegraphist.
†Donaghadee	T. MacGowan	-	-	Postmaster.
Parsonstown	E. Haines	-	-	Assistant Observer at Lord Rosse's Observatory.
*†Holyhead	Capt. Richards	-	-	Keeper of Sailors' Home.
Liverpool	J. Hartnup, F.R.Met.Soc.	-	-	Bidston Observatory.
*†Valencia	J. E. Cullum, F.R.Met.Soc.	-	-	Superintendent of the Observatory.
†Roche's Point	W. Kennedy	-	-	Telegraph Clerk.
Fenbroke	S. Blake	-	-	Lightkeeper.
*†Scilly	A. Hicks§	-	-	Signalman.
Drawle Point	W. Hewitt	-	-	Coastguard Officer.
†Hurst Castle	G. G. Appleton	-	-	Lightkeeper.
†Jersey	J. Fisher	-	-	Station Master.
*†Dungeness	W. Batton	-	-	Assistant Lightkeeper.
†London	F. Gaster, F.R.Met.Soc.	-	-	Clerk, Meteorological Office.
Oxford	W. Wickham	-	-	Radcliffe Observatory.
Cambridge	H. Todd	-	-	Observatory.
*†Yarmouth	G. T. Watson	-	-	Secretary, Sailors' Home.
†Hawes Junction	W. H. Bunce	-	-	Station Master.

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

Station.	Authority.	Station.	Authority.
Haparanda	Meteorological Office, Sweden.	†The Helder	
Hernösand		Cape Gris Nez	
†Stockholm		†(Brest, St. Mathieu)	
Wisby		Lorient (Île de Groix)	
Bodö	Meteorological Institute, Norway.	*†Rochefort (Île d'Aix)	Bureau Central
†Christiansund		†Biarritz	Météorologique, Paris.
*†Skudenesnaes		†Paris	
Faerder		Belfort	
†The Seaw	Meteorological Institute, Denmark.	Lyons	
Fanö		Nice	
Cuxhaven	Deutsche Seewarte, Hamburg.	Perpignan	
		Berlin	
		Wiesbaden	Cent. Met. Inst. of Germany.
		Munich	
		Corunna	Observatory,
		†Lisbon	Lisbon.

Note.—Those stations marked with an asterisk (*) report also at 2h. p.m.; and those with a dagger (†) at 6h. p.m.; Lisbon reports at 8h. a.m. and 4h. p.m.

† This station now reports by post only.

§ W. Thomas died in March 1890.

The reports from Barrow-in-Furness ceased at end of 1889.

APPENDIX VII.

LIST OF STATIONS reporting Meteorological Observations to the Office by Telegraph on 31st March 1891, with the Names of Observers.

*†Sumburgh Head	-	Rev. W. Brand	-	-	Minister of Dunrossness.
*†Stornoway	-	J. Forbes	-	-	Nicolson Institution.
Wick	-	J. Sinclair	-	-	Watchmaker.
Nairn	-	Miss Penny	-	-	Schoolmistress.
*†Aberdeen	-	W. Boswell	-	-	Assistant at the Observatory.
Leith	-	W. Hay	-	-	Telegraph Clerk.
*†Shields	-	J. W. Irvine	-	-	Do.
Spurn Head	-	J. H. Watson	-	-	Lightkeeper.
†York	-	H. M. Platnauer, F.G.S.	-	-	Curator of Museum.
Loughboro'	-	W. Berridge	-	-	
†Ardrossan	-	J. W. Mayes	-	-	Telegraph Clerk.
Malin Head	-	O. O'Doherty	-	-	Signalman, Lloyd's.
*†Mullaghmore	-	K. Kerr	-	-	Retired Coastguard Officer.
*†Belmullet	-	Miss M. J. Tolan	-	-	Telegraphist.
†Donaghadee	-	T. MacGowan	-	-	Postmaster.
Parsonstown	-	E. Haines	-	-	Assistant Observer at Lord Rosse's Observatory.
*†Holyhead	-	Capt. Richards	-	-	Keeper of Sailors' Home.
Liverpool	-	J. Hartnup, F.R.Met.Soc.	-	-	Bidston Observatory.
*†Valencia	-	J. E. Cullum, F.R.Met.Soc.	-	-	Superintendent of the Observatory.
†Roche's Point	-	W. Kennedy	-	-	Telegraph Clerk.
Pembroke	-	S. Blake	-	-	Lightkeeper.
*†Scilly	-	A. Hicks	-	-	Signalman.
Prawle Point	-	W. Hewitt	-	-	Coastguard Officer.
†Hurst Castle	-	G. G. Appleton	-	-	Lightkeeper.
†Jersey	-	J. Fisher	-	-	Station Master.
*†Dungeness	-	W. Batton	-	-	Assistant Lightkeeper.
*†London	-	F. Gaster, F.R.Met.Soc.	-	-	Clerk, Meteorological Office.
Oxford	-	W. Wickham	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	Observatory.
*†Yarmouth	-	G. T. Watson	-	-	Secretary, Sailors' Home.
†Hawes Junction	-	W. H. Bunce	-	-	Station Master.

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

Station.	Authority.	Station.	Authority.
Haparanda	-	†The Helder	-
Hernösand	-	Cape Gris Nez	-
†Stockholm	-	†Brest (St. Mathieu)	
Wisby	-	Lorient (Île de Groix)	
Bodö	{ Meteorological	*†Rochefort (Ile d'Aix)	Bureau Central
†Christiansund	Office, Sweden.	†Biarritz	Météorologique, Paris.
*†Skudenesnaes	{ Meteorological	†Paris	
Færder	Institute, Norway.	Belfort	
*†The Seaw	{ Meteorological	Lyons	
Fauö	Institute, Denmark.	Nice	
Cuxhaven	Deutsche Seewarte, Hamburg.	Perpignan	
		Berlin	
		Wiesbaden	
		Munich	
		Corunna	
		†Lisbon	

Note.—The stations marked with an asterisk (*) report also at 2h. p.m.; and those with a dagger (†) at 6h. p.m.; Lisbon reports at 8h. a.m. and 4h. p.m.

† This station now reports by post only.

Paris has ceased reporting at 6 p.m. on Sundays.

APPENDIX VI.

LIST OF STATIONS reporting Meteorological Observations to the Office by Telegraph on 31st March 1892, with the Names of Observers.

*†Sumburgh Head	-	Rev. W. Brand	-	-	-	Minister of Dunrossness.
*†Stornoway	-	J. Forbes	-	-	-	Nicolson Institution.
Wick	-	J. Sinclair	-	-	-	Watchmaker.
Nairn	-	Miss Penny	-	-	-	Schoolmistress.
*†Aberdeen	-	W. Boswell	-	-	-	Assistant at the Observatory.
Leith	-	W. Newlands	-	-	-	Telegraph Clerk.
*†Shields	-	J. W. Irvine	-	-	-	Do.
Spurn Head	-	G. Freeman	-	-	-	Lightkeeper.
†York	-	H. M. Platnauer, F.G.S.	-	-	-	Curator of Museum.
Loughboro'	-	W. Berridge	-	-	-	
*†Ardrossan	-	J. W. Mayes	-	-	-	Telegraph Clerk.
†Malin Head	-	O. O'Doherty	-	-	-	Signalman, Lloyd's.
*†Mullaghmore	-	K. Kerr	-	-	-	Retired Coastguard Officer.
*†Belmullet	-	Miss M. J. Tolan	-	-	-	Telegraphist.
†Donaghadee	-	T. MacGowan	-	-	-	Postmaster.
Parsonstown	-	E. Haines	-	-	-	Assistant Observer at Lord Rosse's Observatory.
*†Holyhead	-	Capt. Richards	-	-	-	Keeper of Sailors' Home.
Liverpool	-	J. Hartnup, F.R.Met.Soc.	-	-	-	Bidston Observatory.
*†Valencia	-	J. E. Cullum, F.R.Met.Soc.	-	-	-	Superintendent of the Observatory.
†Roche's Point	-	W. Kennedy	-	-	-	Telegraph Clerk.
Pembroke	-	S. Blake	-	-	-	Lightkeeper.
*†Scilly	-	A. Hicks	-	-	-	Signalman.
Prawle Point	-	W. Hewitt	-	-	-	Coastguard Officer.
†Hurst Castle	-	G. G. Appleton	-	-	-	Lightkeeper.
†Jersey	-	J. Fisher	-	-	-	Station Master.
*†Dungeness	-	W. Batton	-	-	-	Assistant Lightkeeper.
†North Foreland	-	A. Cox	-	-	-	Signalman, Lloyd's.
*†London	-	F. Gaster, F.R.Met.Soc.	-	-	-	Clerk, Meteorological Office.
Oxford	-	W. Wickham	-	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd	-	-	-	Observatory.
*†Yarmouth	-	G. T. Watson	-	-	-	Secretary, Sailors' Home.
†Hawes Junction	-	W. H. Bunce	-	-	-	Station Master.

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

Station.	Authority.	Station.	Authority.
Haparanda	-	†The Helder	-
Hernösand	-	Cape Gris Nez	-
*†Stockholm	-	†Brest (St. Mathieu)	
Wisby	-	Lorient (Île de Groix)	
Bodö	-	*†Rochefort (Île d'Aix)	Bureau Central
*†Christiansund	-	Biarritz	Météorologique, Paris.
*†Skudenesnaes	-	Paris	
Færder	-	Belfort	
*†The Seaw	-	Lyons	
Fanø	-	Nice	
Cuxhaven	-	Perpignan	
		Berlin	
		Wiesbaden	Cent. Met. Inst. of Germany.
		Munich	
		Corunna	Observatory, Lisbon.
		Lisbon	

Note.—The stations marked with an asterisk (*) report also at 2h. p.m.; and those with a dagger (†) at 6h. p.m.; Lisbon reports at 8h. a.m. and 4h. p.m.

† This station now reports by post only.

The station at the North Foreland was started January 1, 1892. At Leith Mr. Newlands succeeded Mr. Hay in May; at Spurn Head Mr. Freeman succeeded Mr. Watson in October.

Paris has ceased reporting at 6 p.m. on Sundays.

Appendix V.

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APPENDIX V.

LIST OF STATIONS reporting Meteorological Observations to the Office by Telegraph on 31st March 1893, with the Names of Observers.

*†Sumburgh Head	-	Rev. W. Brand	-	-	Miuister of Dunrossness.
*†Stornoway	-	J. Forbes	-	-	Nicolson Institution.
Wick	-	J. Sinclair	-	-	Watchmaker.
Nairn	-	Miss Penny	-	-	Schoolmistress.
*†Aberdeen	-	W. Boswell	-	-	Assistant at the Observatory.
Leith	-	T. Richardson	-	-	Telegraph Clerk.
*†Shields	-	J. W. Irvine	-	-	Do.
Spurn Head	-	G. Freeman	-	-	Lightkeeper.
†York	-	H. M. Platnauer, F.G.S.	-	-	Curator of Museum.
Loughboro'	-	W. Berridge	-	-	
†Ardrossan	-	J. W. Mayes	-	-	Telegraph Clerk.
†Malin Head	-	O. O'Doherty	-	-	Signalman, Lloyd's.
*†Muiraghmore	-	K. Kerr‡	-	-	Retired Coastguard Officer.
*†Belmullet	-	Miss M. J. Tolan	-	-	Telegraphist.
†Donaghadee	-	T. MacGowan	-	-	Postmaster.
Parsonstown	-	W. J. Perry	-	-	For The Earl of Rosse, K.P.
*†Holyhead	-	Capt. Richards	-	-	Keeper of Sailors' Home.
Liverpool	-	W. E. Plummer, F.R.A.S.	-	-	Bidston Observatory.
*†Valencia	-	J. E. Cullum, F.R.Met.Soc.	-	-	Superintendent of the Observatory.
†Roche's Point	-	W. Kennedy	-	-	Telegraph Clerk.
Pembroke	-	S. Blake	-	-	Lightkeeper.
*†Scilly	-	A. Hicks	-	-	Signalman.
Prawle Point	-	W. Hewitt	-	-	Coastguard Officer.
†Hurst Castle	-	G. G. Appleton	-	-	Lightkeeper.
†Jersey	-	J. Fisher	-	-	Station Master.
*†Dungeness	-	W. Batton	-	-	Assistant Lightkeeper.
†North Foreland	-	A. Cox	-	-	Signalman, Lloyd's.
*†London	-	F. Gaster, F.R.Met.Soc.	-	-	Clerk, Meteorological Office.
Oxford	-	W. Wickham	-	-	Radcliffe Observatory.
Cambridge	-	H. Todd and P. Morris	-	-	Observatory.
*†Yarmouth	-	G. T. Watson	-	-	Secretary, Sailors' Home.
§Hawes Junction	-	W. H. Bunce	-	-	Station Master.

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

Station.	Authority.	Station.	Authority.
Haparanda	-	†The Helder	-
Hernösand	-	Cape Gris Nez	-
†Stockholm	-	†Brest (St. Mathieu)	
Wisby	-	Lorient (Île de Groix)	
Bodö	-	*†Rochefort (Ile d'Aix)	Bureau Central
†Christiansund	-	†Biarritz	Météorologique, Paris.
*†Skadesnaes	-	†Paris	
Færder	-	Belfort	
†The Scaw	-	Lyons	
Fanö	-	Nice	
Cuxhaven	-	Perpignan	
		Berlin	
		Wiesbaden	Cent. Met. Inst.
		Munich	of Germany.
		Corunna	
		†Lisbon	Observatory, Lisbon.

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

Paris and the Helder do not report at 6 p.m. on Sundays.

† Observer since dead.

§ This station now reports by post only at the close of each month.

|| Mr. Hartnup died on 21st April 1892.

Appendix II.—Supply of Information to the Public. 73**LIST OF OBSERVERS AT THE STATIONS OF THE SEVERAL ORDERS—*continued.***

Name of Station.	Observer.
GROUP R.—ADDITIONAL RAINFALL STATIONS—<i>continued.</i>	
Killiney, Co. Dublin ...	R. O'Brien Furlong, C.B.
Kinlochewe	A. McLennan, for Hon. W. Peel, M.P.
Kirkby Lonsdale, Norwood ...	R. A. Clarke.
Lahinch, Co. Clare ...	Miss I. F. K. Bowes.
*Langford, Biggleswade ...	F. J. Gurney.
Llandinam	John Owens.
London, Chelsea ...	T. W. E. Higgens, C.E.
Mallaranny	Miss M. Kilshy.
Mareham-le-Fen ...	Mrs. G. L. Kime.
Mount Callan, Inagh ...	Lt.-Col. Tottenham.
Newchurch	C. Cullum.
Newmarket-on-Fergus ...	W. W. A. Fitzgerald.
Newport, Monmouth ...	C. Cullum.
Newton Hall	Rev. J. Seymour St. John.
Northallerton	W. Stead, C.E.
*Oundle	N. E. Dixon.
Pant-y-reos, Mon. ...	C. Cullum.
Penrhyn Quarry ...	H. P. Meares, C.E.
Port Talbot, Margam Park ...	G. Lipscombe, for Miss Talbot.
Recess, Co. Galway ...	A. A. Smith.
*Redpath, Northumberland ...	Francis R. Hull, C.E.
Ridlington	N. W. Wortley.
Rochford, Tenbury ...	Rev. John Tomson.
Roxborough	A. W. Shaw.
Sandgate	A. Robert Bowles, C.E.
*Sandwich	Royal St. George's Golf Club.
*Simonsbath	Rev. John S. Martin.
Syston	S. K. Daniels.
Temple Bruer, Lincs. ...	Miss Alice S. Morley.
*Tod Craig	Francis R. Hull, C.E.
Valencia Island, Glanleam ...	Miss E. Fitzgerald.
Watergate (Emsworth) ...	W. M. Christy.
Ynis-y-bro, Newport ...	C. Cullum.
GROUP T.—TELEGRAPHIC REPORTING STATIONS.	
Aberdeen Observatory ...	G. A. Clarke.
Bath	W. H. Symons, M.D., for the Corporation.
Bidston Observatory, Liverpool	W. E. Plummer, F.R.A.S., for the Mersey Docks and Harbour Board.
Birr Castle, Parsonstown ...	J. L. Roe.
Blacksood Point, Co. Mayo ...	A. Marshall, Coastguard.
Clacton-on-Sea	A. W. Shadick, for the Town Council.
Donaghadee	W. Keown, Coastguard.
Dungeness	J. G. Williams, Lightkeeper.
Holyhead	T. Chope, Sailors' Home.
Leith	T. Richardson and A. J. Bottrill, Post Office.
London, Brixton ...	F. Gaster.
†Loughborough	W. Berridge.
Malin Head, Co. Donegal ...	A. C. Hailstone, Lloyd's Signal Station.
Nairn	Miss Penny.
Newton Reigny, Penrith ...	T. G. Benn.
Oxford	W. Wickham, Radcliffe Observatory.
Portland Bill	W. J. Batton, Lightkeeper.
Roche's Point, Co. Cork ...	B. Kelleher and James Mountjoy, Post Office.

* Station added to the list since last Report.

† Station now discontinued.

‡ There is an automatic record of Wind by a Dines' Anemometer at this Station.

**LIST OF OBSERVERS AT THE STATIONS OF THE SEVERAL
ORDERS—*continued.***

Name of Station.	Observer.
GROUP T.—TELEGRAPHIC REPORTING STATIONS— <i>continued.</i>	
St. Ann's Head, Pembroke ...	G. H. Dunsford, Lightkeeper.
St. Aubin's, Jersey ...	J. Fisher.
Scilly Islands, St. Mary's ...	A. Hicks, Lloyd's Signal Station.
Shields, North	W. B. Clark, Post Office.
Spurn Head	A. S. Badcock, Lightkeeper.
Stornoway	J. Mackenzie, Lloyd's Agent.
Sumburgh Head	Rev. W. Brand.
Valencia Observatory, Cahirciveen.	J. E. Cullum, Valencia Observatory.
Wick	J. Sinclair.
Yarmouth, Norfolk	G. T. Watson, Sailors' Home.

**LIST OF FOREIGN STATIONS FROM WHICH REPORTS ARE
RECEIVED DAILY BY TELEGRAPH. *See PAGE 37.***

Station.	Authority.
Haparanda	
Hernösand	
² Stockholm	Meteorological Office, Stockholm.
Wishy	
Karlstad	
Bodö	
² Christiansund	Meteorological Institute, Christiania.
¹ ² Skudenesnaes	
Færder	
² The Scaw	Meteorological Institute, Copenhagen.
Fanø	
Cuxhaven	
Berlin	
Frankfurt	Deutsche Seewarte, Hamburg.
Munich	
² The Helder	
Brussels	
Cape Gris Nez	
² Brest (St. Mathieu) ...	
Lorient (Ile de Groix) ...	
^{1²} Rochefort (Ile d'Aix) ...	Bureau Central Météorologique, Paris.
² Biarritz	
² Paris	
Belfort	
Lyons	
Nice	
Perpignan	
Corunna	Observatory, Lisbon.
² Lisbon	
Azores (P. Delgada) ...	Meteorological Service of the Azores.
“ (Horta) ...	

Note.—The stations marked (¹) report also at 2h. p.m., and those marked (²) at 6h. p.m.
Lisbon reports at 4h. p.m. instead of 6h. p.m.

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

LIST OF OBSERVERS AT THE STATIONS OF THE SEVERAL ORDERS—*continued.*

Name of Station.	Observer.
GROUP R.—ADDITIONAL RAINFALL STATIONS— <i>continued.</i>	
*Rhayader Watershed :—	
*Rhayader, Nantgwillt, Old...	
*" " New...	
*Abergwngy ...	
*Bwlchyrhendre ...	
*Claerweu ...	
*Nant-y-car ...	
*Pryddallau ...	
*Tremynydd ...	
Ridlington ...	N. W. Wortley.
Rochford, Tenbury ...	Rev. John Tomson.
Roxborough ...	A. W. Shaw.
Sandgate ...	A. Robert Bowles, C.E.
Sandwich ...	Royal St. George's Golf Club.
Simonsbath ...	Rev. John S. Martin.
Syston ...	S. K. Daniels.
Temple Bruer (Lincolnshire) ...	Miss Alice S. Morley.
*Thetford, Norfolk ...	H. T. Killick, J.P.
Tod Craig ...	Francis R. Hull, C.E.
Valencia Island, Glanleam ...	Miss E. Fitzgerald.
Watergate (Emsworth) ...	W. M. Christy.
Ynis-y-bro, Newport ...	C. Cullum.
York, Deighton Grove ...	M. L. Whitehead.
GROUP T.—TELEGRAPHIC REPORTING STATIONS	
Ⓐ Aberdeen Observatory ...	G. A. Clarke.
Ⓐ Bath ...	W. H. Symons, M.D., for the Corporation.
Bidston Obsty., Liverpool ...	W. E. Plummer, F.R.A.S., for the Mersey Docks and Harbour Board.
Ⓐ Birr Castle, Parsonstown ...	J. L. Roe.
Black sod Point, Co. Mayo ...	A. Marshall, Coastguard.
Ⓐ Clacton-on-Sea ...	A. W. Shadick, for the Town Council.
Dunaghadee ...	W. Keown, Coastguard.
Dungeness ...	J. G. Williams, Lightkeeper.
Holyhead ...	T. Chope, Sailors' Home.
Leith ...	T. Richardson and A. J. Bottrill, Post Office.
London, Brixton ...	F. Gaster.
Malin Head, Co. Donegal ...	A. C. Hailstone and J. Putt, Lloyd's Signal Station.
Nairn ...	Miss Penny.
Ⓐ Nottingham ...	Arthur Brown, A.M. Inst. C.E., for the Corporation.
Ⓐ Oxford ...	W. Wickham, Radcliffe Observatory.
Portland Bill ...	W. J. Batton, Lightkeeper.
Roche's Point, Co. Cork ...	James Mountjoy, Post Office.
Ⓐ St. Ann's Head, Pembroke ...	G. H. Dunstford, Lightkeeper.
St. Aubin's, Jersey ...	J. Fisher.
Ⓐ Scilly Islands, St. Mary's ...	A. Hicks, The Parade, St. Mary's.
Shields, North ...	W. B. Clark, Post Office.
Spurn Head ...	A. S. Badcock, Lightkeeper.
Ⓐ Stornoway ...	J. Mackenzie, Lloyd's Agent.
Sumburgh Head ...	Rev. W. Brand.
Ⓐ Valencia Observatory ...	J. E. Cullum, Valencia Observatory.
Wick ...	J. Sinclair.
Yarmouth, Norfolk ...	G. T. Watson, Sailors' Home.

* Station added to the list since last Report.

† There is an automatic record of Wind by a Dines' Anemometer at this Station.

Appendix II.—Supply of Information to the Public. 79LIST OF FOREIGN STATIONS FROM WHICH REPORTS ARE RECEIVED DAILY BY TELEGRAPH. *See PAGE 44.*

Name of Station.	Authority.
Haparanda	
Hernösand	
*Stockholm	Meteorological Office, Stockholm.
Wisby	
Karlstad	
Bodö	
*Christiansund	Meteorological Institute, Christiania.
*Skudenesnaes	
Færder	
*The Scaw	Meteorological Institute, Copenhagen.
Fanö	
Cuxhaven	
Berlin	
Frankfurt	Deutsche Seewarte, Hamburg.
Munich	
*The Helder	
Brussels	
Cape Gris Nez	
*Brest (St. Mathieu) ...	
Lorient (Ile de Groix) ...	
*Rochefort (Ile d'Aix) ...	Bureau Central Météorologique, Paris.
*Biarritz	
*Paris	
Belfort	
Lyons	
Nice	
Perpignan	
Corunna	
Lisbon	Observatory, Lisbon.
*Azores (P. Delgada) ...	
,, (Horta)	Meteorological Service of the Azores.

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

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

 HAY HARVEST "RECORD OF WEATHER," Form A, No. 60,
received from :—

- H. G. Burkitt, Grange Hill, Bishop Auckland.
- M. R. Pryor, Weston Hall, Stevenage, Herts.
- W. A. Sandeman, Guilden Morden, Royston.
- T. Courtenay Warner, Brettenham Park, Brettenham.
- T. G. Binney, Guisnes Court, Tolleshunt D'Arcy, Essex.
- R. H. Hollins, 25, Austin Friars, E.C. (Ketton, Stamford).
- G. Cadbury, Bournville, near Birmingham.
- W. A. Procter, Holgate Head, Kirkby Malham, Leeds.

Appendix II.—Supply of Information to the Public. 99LIST OF OBSERVERS AT THE STATIONS OF THE SEVERAL ORDERS—*continued.*

Name of Station.	Observer.
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GROUP R.—ADDITIONAL RAINFALL STATIONS—*continued.*

Temple Bruer (Lincolnshire) ...	Miss Alice S. Morley.
Thetford, Norfolk ...	E. S. Greenwood.
Tod Crag ...	Francis R. Hull, C.E.
Valencia Island, Glanleam ...	Miss E. Fitzgerald.
Warlingham, Surrey ...	R. H. Curtis.
Watergate (Emsworth) ...	W. M. Christy.
Ynis-y-bro, Newport ...	C. Cullum.
York, Deighton Grove ...	M. L. Whitehead.

GROUP T.—TELEGRAPHIC REPORTING STATIONS.

Ⓐ Aberdeen Observatory ...	G. A. Clarke.
Ⓑ Bath ...	W. H. Symons, M.D., for the Corporation.
Bidston Observatory, Liverpool ...	W. E. Plummer, M.A., F.R.A.S., for the Mersey Docks and Harbour Board.
Ⓑ Birr Castle ...	W. J. Roe.
Black sod Point, Co. Mayo ...	J. Heddon, Coastguard.
Ⓒ Clacton-on-Sea ...	A. W. Shadick, for the Town Council.
Donaghadee ...	R. Damerell, Coastguard.
Dungeness ...	J. G. Williams, Lightkeeper.
Holyhead ...	T. Chope, Sailors' Home.
Jersey (St. Aubin's) ...	J. Fisher.
Leith ...	D. Drummond, Post Office.
London, Brixton ...	F. Gaster.
Ⓒ London, Westminster ...	The Staff of the Meteorological Office.
Malin Head, Co. Donegal ...	Lloyd's Signalman.
Nairn ...	Miss Penny.
Ⓒ Nottingham ...	Arthur Brown, A.M.Inst.C.E., for the Corporation.
Ⓒ Oxford ...	W. Wickham, Radcliffe Observatory.
Portland Bill ...	W. J. Batton, Lightkeeper.
Roche's Point, Co. Cork ...	M. FitzMahony, Post Office.
Ⓒ St. Ann's Head, Pembroke ...	G. H. Dunsford, Lightkeeper.
Ⓒ Scilly Islands (St. Mary's) ...	Alfred Hicks.
Shields, North ...	R. Moat, Post Office.
Spurn Head ...	A. S. Badcock, Lightkeeper.
Ⓒ Stornoway ...	J. Mackenzie, Lloyd's Agent.
Sumburgh Head ...	Rev. W. Brand.
Ⓒ Valencia Observatory ...	J. E. Cullum.
Wick ...	Miss Sinclair.
Yarmouth, Norfolk ...	G. T. Watson, Sailors' Home.

¹ There is a Dines Anemograph at this Station.² There is a Dines Anemograph, and a self-recording Rain gauge at this Station.

Ⓐ Record of bright sunshine received.

The names of Stations added to the list since last Report are printed in clarendon type.

**LIST OF FOREIGN STATIONS FROM WHICH REPORTS ARE
RECEIVED DAILY BY TELEGRAPH. See PAGE 65.**

Name of Station.	Authority.
Haparanda	Meteorological Office, Stockholm.
Hernösand	
*Stockholm	
Wisby	
Karlstad	
Bodö	
*Christiansund	Meteorological Institute, Christiania.
*Skudenesnaes	
Færder	
*The Scaw	
Fanø	Meteorological Institute, Copenhagen.
Cuxhaven	
Berlin	
Frankfurt	
Munich	Deutsche Seewarte, Hamburg.
*The Helder	
Brussels	
Cape Gris Nez	
*Brest (St. Mathieu) ...	
Lorient (Ile de Groix) ...	
*Rochefort (Ile d'Aix) ...	Bureau Central Météorologique, Paris.
*Biarritz	
*Paris	
Belfort	
Lyons	Observatory, Lisbon.
Nice	
Perpignan	
Corunna	
Lisbon	
*Azores (Ponta Delgada) ...	Meteorological Service of the Azores.
" (Horta)	

Note.—The stations marked (*) report also at 2h. 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.
No reports are received from the Helder at 6 p.m. on Sundays.

**LIST OF RECIPIENTS OF HARVEST FORECASTS (see p. 23) who
have kept and returned to the Office a daily record of weather
experienced, for the purpose of an independent checking of the
forecasts as issued.**

- T. Thompson, Welburn, York.
- M. R. Pryor, Weston Hall, Stevenage, Herts.
- G. S. Flowerdew, South Green, Eye, Suffolk.
- T. G. Binney, Guisnes Court, Tolleshunt D'Arcy, Essex.
- W. A. Sandeman, Morden House, Royston.
- T. Coker, Wigginton, Tring, Herts.
- R. Hussey-Freke, Manor Farm, Hannington, Highworth, Wilts.
- N. V. Bowater, Bury Hall, Lower Edmonton.
- J. Norris, Pagehurst, Staplehurst.
- J. Welsh, Laglands, Reigate.
- A. Burch, Chiddingfold, Surrey.
- A. Radford, Bradfield Hall, Berks.
- G. J. H. Pearse, Vagg, Yeovil.
- R. M. Greaves, Portmadoc.
- W. Little, Town Hall, Llandudno.
- D. A. Thomas, M.P., Llanwern, Newport, Mon.
- Thomson Bros., Tregony, Cornwall.
- Sir Thomas Dyke Acland, Killerton, Exeter.