EIGHT A.M.

WEATHER REPORT. 1870. October 1st

Saturday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Distur (0 to 9)
*Christiansund	30·44	59	54	SSW	6	4	SSW	—	o	—	3
*Skudesnaes ...	30·67	52	50	SSW	2	0	Z	—	o	—	2
*Oxo (Christiansand)	30·58	49	48	WSW	4	4	SW	—	bc	—	2
Thurso ...	30·53r	48	47	SSW	1	1	S	0	mb	—	1
Wick	30·53r	54	53	S	2	2	S	4	c	—	2
Nairn	30·56r	45	43	Z	0	1	SW	0	bm	—	0
Aberdeen ...	30·62r	52	51	S	1	1	S	0	bfc	0·01	0
Leith	30·58r	49	49	NW	1	1	NE	0	bf	—	—
Shields	30·63r	50	48	S	3	3	SW	0	mb	—	1
Scarborough...	30·65r	56	55	SSE	2	3	SSE	4	bc	—	2
Yarmouth ...	30·64r	57	56	E	4	4	E	0	cb	—	4
Ardrossan ...	30·61r	48	47	ENE	2	1	SE	1	f	—	1
Greencastle ...	30·54r	54	52	SSW	1	1	SW	2	m	—	—
Holyhead ...	30·54r	58	57	WNW	2	2	WNW	2	b	—	—
Liverpool ...	30·59r	53	50	S	2	1	SE	7	co	—	1
Valencia ...	30·46r	53	51	SE	1	3	E	0	b	—	1
Crookhaven ...	30·44r	56	55	E	5	5	E	8	bc	—	2
Roche's Point	30·46s	58	55	SE	5	5	SE	8	co	—	4
Pembroke ...	30·48r	52	50	E	5	4	ESE	8	m	—	2
Penzance ...	30·46r	57	55	ESE	6	5	E	4	c	—	5
Plymouth ...	30·46r	55	53	E	3	3	E	2	bc	—	1
Portsmouth ...	30·53r	—	—	ESE	2	4	E	4	c	—	1
Dover ...	30·56r	58	58	ENE	3	4	ENE	0	cb	—	2
London ...	30·57r	51	50	ESE	2	3	E	1	cmb	—	—
Helder	30·65	53	—	E	2	—	—	—	—	—	2
Cape Gris Nez	30·50r	50	46	ESE	4	4	E	0	fb	—	3
Brest	?30·28r	51	49	E	4	5	NE	0	b	—	3
L'Orient ...	30·34r	51	49	ENE	5	4	SW	0	b	—	3
Rochefort ...	30·27r	55	53	ESE	5	4	ESE	0	b	—	3
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)	30·17f	48	46	W	4	4	W	8	0	0·05	4

2 P.M. REPORT.

Skudesnaes ...	30·70	55	53	SSW	2	—	—	—	o	—	2
Thurso	30·54	57	58	Z	0	—	—	0	b	—	0
Scarborough ...	30·66	57	56	SSE	2	—	—	1	cb	—	2
Greencastle ...						—	—			—	—
Valencia ..	30·44	62	57	SE	3	—	—	0	b	—	1
Penzance ...	30·43	61	56	SE	8	—	—	1	b	—	6
London... ...	30·53	65	55	SE	3	—	—	2	b	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Satur-day

The barometer continues to rise slowly, principally on the northern coasts, and is high generally. The readings at Scarborough and Helder are only 0·12 in. higher than that at Thurso, but 0·21 in. higher than that at Crookhaven.

Temperature has changed variably since yesterday, being rather higher in the east of England and lower in the west of Scotland.

Light variable airs are still prevalent in the north, but the E^h. breeze has freshened somewhat at our south-western stations, and veered a little.

The weather continues fine — with mist and fog in places. The sea is moderate in the south-west and at Yarmouth, calm elsewhere.

2. pm " Pressure has scarcely changed since the morning, but the wind has increased at Penzance, where it is strong from SE with a disturbed sea

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
SEPT^R												
30TH	Rochefort	30·24r	56	45	E	4	4	N	0	cb	—	3
-"-	Hearts Content	30·38r	39	38	E	2	2	E	9	spo	0·07	3

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 2nd

Sun-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb. (0 to 9.)
*Christiansund	30·50	51	50	SW	6	6	SSW	—	oc	—	4
*Skudesnaes ...	30·66	48	46	ENE	2	0	Z	—	ob	—	2
*Oxo (Christiansand)	30·55	49	44	NW	2	2	SW	—	b	—	1
Thurso ...	30·53s	44	43	SSE	1	1	S	0	bm	—	1
Wick	30·55r	58	56	SSW	2	2	SSW	2	cb	—	2
Nairn	30·55r	50	46	Z	0	0	Z	0	mb	—	0
Aberdeen ...	30·60f	47	46	S	2	2	S	1	fm	—	1
Leith	30·58f	46	46	E	2	1	ENE	0	bf	—	—
Shields	30·63s	50	49	SW	1	3	S	0	bf	—	2
Scarborough...	30·65f	57	56	SSE	3	2	SSE	7	bc	—	3
Yarmouth ...	30·60f	58	56	ENE	4	4	ESE	0	b	—	5
Ardrossan ...	30·58f	?49	?46	NE	3	1	W	1	f	—	2
Greencastle ...	30·51f	54	52	SE	2	3	SSE	3	m	—	—
Holyhead ...	30·51r	58	56	ESE	2	2	ESE	3	bc	—	—
Liverpool ..	30·56f	54	51	SSE	1	3	SE	8	co	—	1
Valencia ...	30·33f	60	56	SSE	4	3	SE	1	b	—	3
Crookhaven ...	30·32f	59	58	ESE	6	6	ESE	2	b	—	3
Roche's Point	30·38f	58	55	SE	5	6	SE	6	oc	—	4
Pembroke ...	30·44f	56	53	ESE	5	5	E	2	mb	—	3
Penzance ...	30·42r	60	58	SE	3	8	ESE	0	b	—	4
Plymouth ...	30·42s	59	58	E	3	6	E	2	bc	—	1
Portsmouth ...	30·45f	—	—	E	4	5	ESE	2	cb	—	4
Dover ...	30·54f	57	57	E	3	5	E	0	b	—	2
London ...	30·54f	52	50	ESE	1	2	E	0	b	—	—
Helder			—			—	—	—	—	—	
Cape Gris Nez	30·52r	52	50	E	4	5	E	0	b	—	1
Brest	?30·28r	57	52	ENE	4	4	E	0	b	—	3
L'Orient ...											
Rochefort ...	30·35f	56	56	SE	4	4	E	0	b	—	3
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart's Content (9 a.m. local time.)	29·67f	50	50	NE	1	4	W	9	op	0·17	2

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	—
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

day

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 3rd

Monday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb. (0 to 9.)
*Christiansund								—		—	
*Skudesnaes ...								—		—	
*Oxo (Christiansand)								—		—	
Thurso ...	30·512	40	38	?SSE	2	1	ESE	0	ob	—	1
Wick	30·542	49	48	S	1	1	S	2	cb	—	2
Nairn	30·512	41	39	NW	1	1	E	0	b	—	0
Aberdeen ...	30·592	52	51	S	1	4	S	9	bo	—	1
Leith	30·551	49	49	SE	2	2	E	6	bcf	—	—
Shields	30·578	50	49	WSW	2	3	SE	6	cf	—	2
Scarborough...	30·608	54	52	SE	2	3	SSE	9	co	—	2
Yarmouth ...	30·558	57	56	ENE	4	4	E	4	bc	—	4
Ardrossan ...	30·562	47	46	ENE	3	1	WSW	1	cmf	—	2
Greencastle ...	30·492	54	52	SSE	1	3	ESE	2	cm	—	—
Holyhead ...	30·41f	57	55	NNE	1	2	NW	4	c	—	—
Liverpool ...	30·50	53	50	S	2	1	SSE	3	cf	—	1
Valencia ...	30·372	59	55	ESE	3	5	SE	0	cb	—	2
Crookhaven ...	30·372	57	56	E	5	7	ESE	8	bc	—	2
Roche's Point	30·402	56	54	SE	2	6	SE	3	oc	—	2
Pembroke ...	30·428	54	52	E	3	5	ESE	1	cm	—	2
Penzance ...	30·422	58	57	E	3	4	ESE	1	b	—	2
Plymouth ...	30·418	58	57	E	2	4	E	0	b	—	1
Portsmouth ...	30·472	—	—	E	2	6	ESE	3	c	—	1
Dover ...	30·492	57	57	ESE	2	3	NE	0	b	—	2
London ...	30·498	52	51	ENE	1	2	E	9	bm	—	—
Helder	30·56	53	—	E	3	—	—	—	—	—	2
Cape Gris Nez	30·472	52	48	SE	3	4	E	0	b	—	1
Brest	?30·282	65	63	ENE	4	4	ENE	1	b-	—	3
L'Orient ...											
Rochefort ...	30·352	55	53	—	5	4	—	0	b	—	3
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart's Content (9 a.m. local time.)	30·022	37.	34	NE	3	5	NE	8	osf	0·01	5

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	30·51	57	54	X	0	—	—	1	b	—	0
Scarborough ...	30·59	55	53	SE	2	—	—	3	c	—	2
Greencastle ...	30·49	61	56	E	1	—	—	0	mb	—	—
Valencia ..	30·38	65	60	S	2	—	—	0	b	—	1
Penzance ...	30·42	62	58	E	3	—	—	1	b	—	2
London... ...	30·48	65	57	E	4	—	—	3	b	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Mon-day

Since Saturday there has been scarcely any change in barometrical pressure over our Islands. The highest reading is still at Scarborough, and exceeds those in the south-west of Ireland by 0·23 in.

Temperature has fallen generally, mostly in Scotland.

The winds continue light from E at our southern stations, while variable airs are again reported from Scotland.

Fine weather is prevalent with mist or fog in places. The sea is calm.

---

2 P.M. No important Change.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
Oct^r												
1.	Brest	?30·282	51	49	E	4	5	NE	0	b	—	3
	Rochefort	30·272	55	53	ESE	5	4	ESE	0	b	—	3
	Heart's Cont^t	30·178	48	46	W	4	4	W	8	0	0·05	4

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 4th

Tues-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb. (0 to 9.)
*Christiansund	30·50	48	45	SSW	2	0	Z	—	bc	—	4
*Skudesnaes ...	30·57	42	42	Z	0	0	Z	—	f	—	2
*Oxo (Christiansand)	30·54	45	43	NNW	4	2	NNW	—	b	—	1
Thurso ...	30·54r	38	37	SSW	1	1	SSE	0	bm	—	1
Wick	30·56r	39	38	WSW	2	2	SSW	2	lb	—	2
Nairn	30·55r	41	38	Z	0	1	NW	0	bm	—	0
Aberdeen ...	30·57s	44	43	Z	0	1	SSW	0	mb	—	0
Leith	30·56f	51	50	W	2	2	NE	6	bf	—	—
Shields	30·59r	46	45	W	1	3	SE	0	bf	—	2
Scarborough...	30·60r	52	51	N	2	2	SE	8	co	—	2
Yarmouth ...	30·53s	56	56	NE	3	4	ENE	2	b	—	3
Ardrossan ...	30·60r	49	48	ENE	1	3	E	1	f	—	1
Greencastle ...	30·54r	51	50	NW	1	1	E	7	m	—	—
Holyhead ...	30·54r	51	49	SSE	2	2	NNE	4	bc	—	—
Liverpool ..	30·55r	53	50	S	2	2	S	3	cf	—	1
Valencia ...	30·44r	59	54	ESE	2	2	S	3	bc	—	1
Crookhaven ...	30·43r	56	55	E	5	5	E	8	bl	—	2
Roche's Point	30·46r	58	56	ESE	5	5	ESE	6	c	—	4
Pembroke	30·49r	51	50	NE	2	5	ESE	0	m	—	1
Penzance ...	30·50r	56	55	NE	1	3	SE	0	b	—	2
Plymouth ...	30·48r	51	51	Z	0	4	E	0	bf	—	0
Portsmouth ...	30·51r	—	—	ENE	1	2	SE	8	co	—	1
Dover ...	30·49s	58	57	NE	2	3	NE	0	b	—	1
London ...	30·52r	52	51	Z	0	4	E	9	bfo	0·01	—
Helder	30·53	52	—	ENE	3	—	—	—	—	—	2
Cape Gris Nez	30·48r	52	48	E	1	3	ESE	0	b	—	1
Brest	? 30·29r	59	52	E	4	4	E	0	b	—	2
L'Orient ...											
Rochefort ...	30·412	55	55	E	4	5	E	0	b	—	3
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart's Content (9 a.m. local time.)	29·94f	42	39	N	2	4	NE	2	ob	—	3

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	30·55	54	52	NE	2	—	—	1	cb	—	2
Greencastle ...						—	—			—	—
Valencia ..	30·44	65	60	SSE	3	—	—	0	b	—	2
Penzance ...	30·48	61	58	S	2	—	—	1	b	—	2
London... ...	30·50	58	55	NE	1	—	—	9	o	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Tues-day

Barometrical readings have scarcely altered during the past 24 hours, but are on the whole rather higher, principally at the south-west stations. The highest pressure is still at Scarboro', exceeding that at Crookhaven by 0·17 in.

Temperature has changed very variably, having fallen in most parts of Gt. Britain — especially in the east of Scotland. Thurso is 21° colder than Valencia.

The winds continue very light everywhere and have backed to NE in the English Channel.

Lightning is reported from Wick and Crookhaven. A great deal of fog is prevalent, and slight rain fell this morning in London. The sea is moderate at Roche's Pt., calm elsewhere.

---

2. P. M. No important change.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
Octr												
3rd	Hearts' Content	30·025	37	34	NE	3	5	NE	8	osf	0·01	5

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 5th

Wednesday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb (0 to 9)
*Christiansund	30·18	48	46	W	6	6	SW	—	o	—	4
*Skudesnaes ...	30·29	51	46	NNE	6	0	Z	—	ob	—	2
*Oxo (Christiansand)	30·16	49	–	W	6	6	WSW	—	b	—	3
Thurso ...	30·46f	48	47	Z	0	1	N	6	ofc	—	0
Wick	30·47f	49	48	NW	2	2	W	7	fo	—	2
Nairn	30·48f	47	46	NNW	1	1	E	9	bmo	—	0
Aberdeen ...	30·49f	49	48	Z	0	1	S	9	bo	—	0
Leith	30·43f	50	49	SE	3	1	E	8	bfo	—	—
Shields	30·44f	48	47	NW	2	3	E	8	bm	—	2
Scarborough...	30·43f	50	48	ENE	1	2	NE	9	bo	—	1
Yarmouth ...	30·41f	52	51	NNW	2	3	ENE	4	c	—	3
Ardrossan ...	30·44f	44	43	NE	4	1	E	0	f	—	2
Greencastle ...	30·43f	49	49	Z	0	1	ENE	9	mf	—	—
Holyhead ...	30·39f	?59	?57	SSE	2	2	WNW	5	bc	—	—
Liverpool ...	30·39f	49	47	SE	1	2	SE	2	cf	—	1
Valencia ...	30·35f	55	51	SSW	1	3	SSE	0	cb	—	0
Crookhaven ...	30·37f	55	54	ESE	5	5	E	8	c	—	2
Roche's Point	30·37f	54	53	E	2	5	ESE	9	cfo	—	2
Pembroke ...	30·37f	49	49	ENE	1	2	SE	9	bf	—	0
Penzance ...	30·40f	55	53	ENE	3	3	E	9	bo	—	2
Plymouth ...	30·38f	50	49	Z	0	3	E	6	bf	—	0
Portsmouth ...	30·41f	—	—	Z	0	1	NE	9	cf	—	0
Dover ...	30·38f	56	55	NE	3	2	NE	3	b	—	2
London ...	30·34f	51	50	Z	0	2	ENE	9	bf	—	—
Helder	30·39	48	—	NE	2	—	—	—	—	—	2
Cape Gris Nez	30·38f	54	52	E	4	4	ENE	9	f	—	3
Brest	?30·30r	50	48	ENE	4	4	NNE	0	b	—	2
L'Orient ...											
Rochefort ...	30·34f	59	59	E	3	4	N	0	b	—	3
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)	29·85f	46	45	SW	1	2	N	2	b	–	3

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	30·39	52	49	NE	2	—	—	9	o	—	2
Greencastle ...	30·36	53	51	E	1	—	—	5	ac	—	—
Valencia ..	30·31	62	57	SSW	3	—	—	3	bc	—	1
Penzance ...	30·32	60	57	S	2	—	—	6	oc	—	2
London... ...	30·35	56	54	W	1	—	—	9	mo	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Wednesday

Since yesterday the barometer has fallen at all stations, mostly in Norway and on our east coast. Readings are still very uniform in these Islands, that at Aberdeen exceeding that at Valencia by 0·14 in., Dover by 0·11 in., and Oscö by 0·33 in.

Temperature has risen considerably in the N of Scotland, and Norway, but fallen somewhat elsewhere.

The wind has freshened from W and N on the Norwegian coast, but continues light and variable in our Islands.

The weather is generally overcast and foggy.

The sea is calm.

---

2 P.M. Pressure continues to decrease slowly. No other important change.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Oct^r^												
4th	Rochefort	30·41r	55	55	E	4	5	E	0	b	—	3
"	Heart's Content	29·94f	42	39	N	2	4	NE	2	ob	—	3

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870. October 6th

Thursday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Dist. (0 to
*Christiansund	29·80	50	47	WSW	6	6	WSW	—	o	—	4
*Skudesnaes ...	29·97	45	41	NW	6	6	NW	—	co	—	2
*Oxo (Christiansand)	29·84	49	44	W	6	2	NW	—	c	—	3
Thurso ...	30·13f	49	46	Z	0	1	NNE	8	o	—	0
Wick	30·15f	49	47	WNW	1	2	ENE	8	co	—	2
Nairn	30·14f	48	46	NW	1	1	NNW	8	co	—	1
Aberdeen ...	30·15f	54	52	NNW	1	1	SW	9	o	—	1
Leith											—
Shields	30·14f	50	47	NW	1	3	NE	8	o	—	2
Scarborough ...	30·17f	49	47	W	1	2	NE	9	o	—	1
Yarmouth ...	30·18f	50	49	W	2	3	NE	6	cm	—	3
Ardrossan ...	30·16f	48	46	NE	1	1	ENE	5	mf	—	1
Greencastle ...	30·15f	50	48	SE	1	1	E	9	m	—	—
Holyhead ...	30·16f	59	55	WSW	2	2	WSW	5	bc	—	—
Liverpool ...	30·15f	51	49	SE	1	2	SE	3	f	—	1
Valencia ...	30·06f	57	54	S	3	3	SSW	6	c	—	2
Crookhaven ...	30·04f	56	55	ESE	5	4	ESE	6	c	—	2
Roche's Point	30·07f	58	55	SSE	4	4	SSE	9	mo	—	3
Pembroke ...	30·11f	55	54	SE	2	2	S	7	fm	—	2
Penzance ...	30·15f	58	55	S	3	2	S	6	c	—	3
Plymouth ...	30·16f	54	53	W	1	1	S	8	cf	—	0
Portsmouth ...	30·20f	—	—	NNE	1	1	ENE	9	o	—	1
Dover ...	30·17f	53	53	NNW	3	2	ENE	5	bo	—	2
London ...	30·20f	48	46	NW	1	1	N	9	mo	—	—
Helder	?30·26	51	—	W	2	—	—	—	—	—	2
Cape Gris Nez	30·17f	54	50	W	1	3	E	8	f	—	1
Brest	?30·10f	57	53	ESE	3	4	ENE	8	bo	—	3
L'Orient ...											
Rochefort ...	30·19f	54	52	E	4	4	N	0	b	—	3
Biarritz											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart's Content (9 a.m. local time.)	30·08r	38	35	NNE	5	5	NNE	8	bo	—	5

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	30·09	53	49	W	1	—	—	9	o	—	1
Greencastle ...	30·06	56	51	S	1	—	—	6	cw	—	—
Valencia ..	29·98	62	58	S	3	—	—	7	c	—	2
Penzance ...	30·06	62	59	SW	3	—	—	2	c	—	3
London	30·18	56	53	NW	1	—	—	9	o	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Thursday

The barometer has continued falling at all stations, more particularly in the northern districts. Readings are still very uniform on our coasts, that at London exceeding by only 0·16 in. that at Crookhaven. Pressure in Norway is about 0·3 in. less than in Scotland.

Temperature has risen in the British Isles except in the east of England, where it has fallen slightly.

The winds continue light at our own stations. They are S.ly in the south-west and NW.ly in the east. Fresh W.ly breezes are prevalent in Norway.

The fog has cleared considerably in most places, but the sky is very cloudy. The sea is calm generally.

2 P.M. Pressure continues to decrease uniformly

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Oct.												
5th	Rochefort	30·34f	59	59	E	3	4	N	0	b	–	3
–"–	Heart's Content	29·85f	46	45	SW	1	2	N	2	b	–	3

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870. October 7th

Fri-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturbance (0 to 9.)
*Christiansund	29·63	40	39	NNW	6	6	W	—	or	—	4
*Skudesnaes ...	29·71	40	38	NNW	?	4	NNW	—	rcb	—	2
*Oxo (Christiansand)	29·72	42	37	NW	4	6	W	—	b	—	2
Thurso ...	29·90f	43	40	ENE	2	4	NE	4	oc	0·02	3
Wick	29·90f	38	38	NNW	3	2	ENE	8	o	—	2
Nairn	29·88f	43	42	NW	1	1	NW	9	o	0·03	1
Aberdeen ...	29·89f	44	42	NNW	1	1	NNW	7	oc	—	1
Leith	29·81f	45	44	SE	2	2	NW	7	ocf	—	—
Shields	29·85f	48	44	NW	2	2	NW	5	c	—	2
Scarborough...	29·87f	48	45	WSW	1	1	W	8	o	—	1
Yarmouth ...	29·88f	50	49	S	3	3	NNW	4	cm	—	3
Ardrossan ...	29·83f	48	45	ENE	3	2	WNW	0	mf	—	2
Greencastle ...	29·75f	51	50	E	1	1	S	9	mr	0·13	—
Holyhead ...	? 29·77f	57	56	SSE	2	2	SSW	6	co	0·08	—
Liverpool ...	29·79f	52	50	SE	2	1	SE	6	m	—	1
Valencia ...	29·59f	60	57	SSE	3	4	SSW	7	oc	—	2
Crookhaven ...	29·61f	60	59	SE	6	3	SSW	8	c	—	3
Roche's Point	29·65f	60	59	S	4	4	SSE	9	o	—	3
Pembroke ...	29·74f	57	56	SE	4	4	SE	9	o	—	2
Penzance ...	29·76f	59	58	S	1	3	SW	9	cr	—	3
Plymouth ...	29·81f	55	54	SSW	1	2	W	9	o	—	0
Portsmouth ...	29·85f	—	—	Z	0	1	NNE	9	cf	—	0
Dover ...	29·88f	59	58	SSW	3	3	WNW	8	co	—	2
London ...	29·87f	51	50	Z	0	1	NW	8	mrf	0·01	—
Helder	29·87	54	—	W	4	—	—	—	—	—	2
Cape Gris Nez	29·92f	54	52	W	4	1	W	9	o	—	3
Brest	? 29·80f	61	59	SSE	4	5	SSE	9	co	—	4
L'Orient ...											
Rochefort ...	29·98f	55	55	E	5	4	N	5	bc	—	3
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)	30·03f	35	35	N	4	5	NNE	5	osc	—	5

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·79	51	47	E	1	—	—	9	o	—	1
Greencastle ...						—	—			—	—
Valencia ..	29·36	61	60	S	5	—	—	8	p	—	4
Penzance ...	29·60	60	59	S	5	—	—	9	r	—	5
London... ...	29·76	65	58	SW	2	—	—	9	o	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extreme high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Fri-day

The barometer has again fallen at all stations, but the change has now been greatest in the west and south-west of the British Isles. The reading at Thurso is 0·31 in. higher than that at Valencia, and 0·27 in. higher than at Christiansund.

Temperature has fallen again considerably in the extreme north and north-east, but risen elsewhere. Wick is 22° colder than the south of Ireland.

The winds are light to moderate everywhere. In Norway and the north-east of Scotland they are chiefly NW. but on our other coasts, influenced by the low pressure in the south-west, they are from S and SE.

Slight rain has fallen in some places; and the sky is very cloudy, with rain at Tusaane. The sea is generally calm.

---

2 P.M. The fall in the barometer has become brisk at Valencia; and the wind has freshened from S. at our SW. stations, with rain, and a rising sea.

Warnings issued to our W. coasts.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
OCT.												
6TH	Rochefort	30·194	54	52	E	4	4	N	0	b	—	3
—"—	Heart's Content	30·081	38	35	NNE	5	5	NNE	8	bo	—	5

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 8th

Saturday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb. (0 to 9)
*Christiansund	29·28	41	38	WNW	6	4	WNW	—	or	—	6
*Skudesnaes ...	29·42	39	38	NNW	4	8	W	—	b	—	—
*Oxo (Christiansand)	29·37	41	37	WNW	2	4	NW	—	bc	—	—
Thurso ...	29·53f	45	42	NE	5	1	ENE	5	c	0·03	4
Wick	29·51f	46	45	NE	3	3	NE	6	c	—	3
Nairn	29·47f	9 45	9 43	ENE	1	1	NW	0	b	—	2
Aberdeen ...	29·43f	47	43	E	2	2	E	5	c	—	3
Leith	29·30f	49	46	E	6	4	E	8	o	0·04	—
Shields	29·26f	50	50	E	5	4	E	8	r	0·77	4
Scarborough...	29·15f	53	52	E	9	8	E	9	or	0·89	6
Yarmouth ...	29·16f	58	57	SSW	4	6	NE	4	rc	0·46	6
Ardrossan ...	29·27f	49	46	E	6	6	E	7	rc	0·42	4
Greencastle ...	29·17f	51	49	E	7	7	E	9	rh	0·37	—
Holyhead ...	29·08f	55	54	ESE	2	2	SSE	6	o	0·43	—
Liverpool ..	29·11f	50	48	SE	1	1	SE	8	r	0·45	1
Valencia ...	29·07f	56	55	S	3	5	S	8	r	0·72	3
Crookhaven ...	29·08f	58	57	SSW	4	6	SSW	8	o	0·52	2
Roche's Point	29·11f	55	54	W	2	6	S	8	ro	0·88	4
Pembroke ...	29·12f	59	57	WSW	5	7	S	7	ocq	0·95	4
Penzance ...	29·23f	58	57	WSW	2	5	NW	6	rc	0·64	3
Plymouth ...	29·24f	60	59	W	3	4	SW	8	ro	0·45	3
Portsmouth ...	29·27f	—	—	WSW	6	8	S	8	bo	0·46	5
Dover ...	29·27f	60	60	SW	5	3	SSW	4	cqp	0·10	4
London ...	29·21f	61	57	WSW	6	8	SW	8	rqc	0·18	—
Helder	29·37	53	—	SE	3	—	—	—	—	—	2
Cape Gris Nez	29·31f	59	57	W	8	4	W	9	o	—	6
Brest											
L'Orient ...											
Rochefort ...	29·62f	62	62	S	4	4	S	9	r	0·24	2
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart's Content (9 a.m. local time.)	29·74f	37	34	N	5	6	N	8	o	—	6

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·10	52	52	ENE	8	—	—	9	r	—	6
Greencastle ...						—	—			—	—
Valencia ..	29·10	60	55	WSW	3	—	—	3	c	—	3
Penzance ...	29·20	60	57	SW	5	—	—	6	c	—	4
London... ...	29·16	65	60	WSW	3	—	—	7	c	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER, corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Saturday

Since yesterday the barometer has fallen considerably on all our coasts, and especially in the east of England, where the change exceeds 0·7in. At Pembroke, however, a slight recovery has taken place since 7 a.m. Pressure is now low generally and the reading at Valencia is 0·46 in. less than that at Thurso.

Temperature has risen rapidly on our east and south coasts, but fallen in the west.

It blew hard from S at our south-eastern stations during the night, and is now blowing strong to a gale from E at Scarborough and in the north-west of the British Isles, but moderate from the same quarter in Scotland. In the south of Ireland, however, the wind is S^th and the barometer appears to be falling again.

Rain has been general, and heavy in many places. The sky is cloudy and the weather appears very unsettled. The sea is rough on our north-east coast and in the Straits of Dover, moderate elsewhere.

Our western coasts were warned yesterday afternoon

2 P.M. Hardly any change is reported. Our S^th, E^th and N^th coasts were warned this morning, Brest having reported a gale from W, and Scarborough one from E.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
Oct^r												
7th	Rochefort	29·98f	55	55	E	5	4	N	5	b-c	—	3
—"—	Heart's Content	30·03f	35	35	N	4	5	NNE	5	o-sc	—	5

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870. October 9th

Sunday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb. (0 to 9.)
*Christiansund	29·29	36	33	E	2	0	Z	—	cb	—	3
*Skudesnaes ...								—		—	
*Exo (Christiansand)	28·98	39	37	NNE	8	4	NW	—	ors	—	4
Thurso ...	29·20f	45	41	NNE	5	5	NNE	5	c	—	5
Wick											
Nairn	29·20f	41	39	ENE	3	6	ENE	8	op	0·13	4
Aberdeen ...	29·13f	41	40	N	3	4	NE	4	hcp	0·11	3
Leith	29·11f	49	43	N	5	7	E	2	ob	0·02	—
Shields	29·01f	44	41	NE	6	7	E	7	rc	0·77	6
Scarborough...	28·98f	45	44	NNE	6	9	ENE	9	r	—	5
Yarmouth ...	28·89f	52	50	W	5	6	SW	4	c	—	6
Ardrossan ...	29·17s	43	38	N	2	4	NW	1	cb	0·03	1
Greencastle ...											—
Holyhead ...	29·04f	47	45	WSW	4	2	SSW	7	or	0·25	—
Liverpool ...	29·00f	47	45	N	2	2	SE	8	r	0·14	1
Valencia ...	29·12r	55	53	WSW	3	3	W	3	p	0·09	3
Crookhaven ...	29·14r	58	55	WNW	4	1	W	2	b	0·04	2
Roche's Point	29·07f	53	50	WNW	4	4	W	3	c	—	3
Pembroke ...	28·99f	54	51	WNW	6	7	W	7	c	0·15	3
Penzance ...	29·16f	56	53	WNW	4	5	SW	9	cr	0·43	2
Plymouth ...											
Portsmouth ...	29·04f	—	—	WNW	6	6	WSW	7	c	0·15	5
Dover ...	28·97f	59	59	SW	3	5	SW	3	tcb	0·33	3
London ...	28·96f	52	50	W	4	6	WSW	2	opb	0·06	—
Helder			—			—	—	—	—	—	
Cape Gris Nez	29·03f	56	52	W	7	8	SW	8	r	0·63	4
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)	29·72r	42	42	NNE	4	5	N	9	o	0·56	5

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	—
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

day

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather	Rain.	Sea

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Mon-day *October. 10TH*

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb. (0 to 9.)
*Christiansund	29·32	31	—	E	4	4	ENE	—	b	—	2
*Skudesnaes ...	29·22	37	—	ENE	6	6	ENE	—	b	—	4
*Oxo (Christiansand)	29·10	36	—	NNE	6	8	NE	—	co	—	4
Thurso ...	29·45r	44	42	NNE	2	6	NNE	5	pc	0·19	4
Wick	29·45r	42	40	NNW	4	5	NNE	6	c	0·09	4
Nairn	29·49r	42	40	ENE	1	7	ENE	0	ohb	?0·94	2
Aberdeen ...	29·42r	41	38	N	2	6	N	3	fhc	0·15	5
Leith	29·44r	41	41	WNW	5	6	N	1	b	—	—
Shields	29·35r	42	41	NW	4	4	NNW	6	rp	0·22	4
Scarborough...	29·30r	49	44	NNE	7	7	N	6	hc	0·30	6
Yarmouth ...	29·22r	39	39	W	3	6	WNW	0	rqb	0·22	5
Ardrossan ...	29·53r	42	38	NW	3	4	NE	1	b	—	2
Greencastle ...											—
Holyhead ...	29·45r	48	47	WNW	4	5	NNW	4	c	0·15	—
Liverpool ..	29·44r	46	42	N	3	2	N	3	c	0·024	1
Valencia ...	29·60r	44	41	E	3	6	ENE	0	pb	0·09	2
Crookhaven ...	29·53r	43	41	NE	6	7	E	0	rb	0·13	2
Roche's Point	29·55r	42	40	NNE	3	4	NE	1	cb	0·03	2
Pembroke ...	29·46r	47	42	NNE	3	6	NNE	3	qc	0·02	2
Penzance ...	29·49r	47	43	NE	2	5	N	3	oc	0·18	2
Plymouth ...	29·45r	42	41	Z	0	3	NNW	0	rf	0·12	0
Portsmouth ...	29·39r	—	—	NNW	3	6	WNW	2	oc	0·06	2
Dover ...	29·29r	42	41	N	4	2	WNW	2	qpb	0·08	2
London ...	29·32r	40	38	NW	5	6	NW	2	pb	0·02	—
Helder	29·04	45	—	W	6	—	—	—	—	—	5
Cape Gris Nez	29·29r	44	39	WNW	7	7	W	4	oc	0·08	5
Brest											
L'Orient ...											
Rochefort ...	29·51f	59	59	W	7	8	W	6	c	0·16	5
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)	29·92r	43	42	NNE	1	4	NNE	8	o	0·03	3

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·49	46	44	N	7	—	—	4	c	—	6
Greencastle ...						—	—			—	—
Valencia ..						—	—			—	
Penzance ...	29·58	52	45	NE	4	—	—	1	cb	—	2
London... ...	29·48	51	47	NW	6	—	—	8	bc	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Mon-day

Yesterday morning the barometer had again fallen throughout Gt: Britain, and was very low generally, especially on our East coast. A recovery had, however, set in at the Irish stations which has now extended elsewhere; and the reading at Valencia this morning is 0·56 in: greater than that at Helder.

Temperature had fallen except in Ireland yesterday; and to-day a further and considerable decrease is reported in the South of England and Ireland, where the weather is cold for the season.

The winds have been fresh to strong from N and W in the British Isles since Saturday, and are now fresh from N and NE in most places, but moderate in the Channel; drawing to NW and W in the Straits of Dover, and on the Dutch coasts.

Rain has been general but not heavy. The sky has now cleared considerably. The sea continues rough in the East and South-east, calm elsewhere.

Only one of the Scotch reports for to-day has arrived. 11. 40 am

---

2 P.M. The barometer continues to rise, especially on the E. coast; where the wind is 'backing' slowly.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather	Rain.	Sea.
SEPT.												
8TH	Rochefort	29·62 g	62	62	S	4	4	S	9	2	0·24	2
-"-	Hearts Can.r	29·74 g	39	34	N	5	6	N	8	0	-	6

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870. October 11th

Tues-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb. (0 to 9.)
*Christiansund	29·40	37	—	ESE	6	2	ESE	—	bc	—	4
*Skudesnaes ...	29·44	37	—	NW	4	2	NNE	—	b	—	2
*Oxo (Christiansand)	29·43	35	—	NW	4	6	NNW	—	cb	—	2
Thurso ...	29·63r	44	43	NNE	1	2	N	6	oc	0·23	2
Wick	29·64r	44	44	WNW	3	4	WNW	8	ro	0·29	3
Nairn	29·67r	44	42	NW	1	2	W	8	co	0·05	2
Aberdeen ...	29·68r	45	41	NW	2	3	NW	4	c	0·02	2
Leith	29·71r	46	43	NW	4	4	N	1	b	—	—
Shields	29·73r	40	39	WNW	3	6	N	0	h.pb	0·02	4
Scarborough...	29·77r	43	41	W	2	7	NNE	1	cb	0·12	3
Yarmouth ...	29·80r	38	37	W	3	4	WNW	3	c	0·12	4
Ardrossan ...	29·74r	50	46	NW	3	4	NW	5	bc	—	2
Greencastle ...	29·83r	46	44	WSW	3	2	N	3	c	—	—
Holyhead ...	29·86r	48	45	WSW	3	3	NNW	4	c	—	—
Liverpool ...	29·82r	50	46	W	4	1	NW	4	c	—	1
Valencia ...	29·81r	48	44	E	3	3	E	7	bc	—	2
Crookhaven ...	? 29·78r	48	45	E	5	5	E	7	bc	—	2
Roche's Point	29·83r	44	41	E	3	3	NNE	7	bc	—	2
Pembroke ...	29·86r	44	43	NE	2	4	NNE	3	cm	—	1
Penzance ...	29·89r	47	43	NE	4	4	NE	6	bc	—	3
Plymouth ...	29·88r	40	39	Z	0	1	ENE	5	cf	—	0
Portsmouth ...	29·91r	—	—	WNW	1	6	NNE	4	c	—	1
Dover ...	29·85r	45	44	WNW	2	4	NNW	0	b	—	1
London ...	29·87r	37	35	W	2	5	NW	0	cmb	—	—
Helder	29·67	50	—	NW	7	—	—	—	—	—	5
Cape Gris Nez	29·88r	48	43	NW	3	5	NNW	1	cb	—	2
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart's Content (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	—
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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REMARKS.

Tuesday

The barometer has continued to rise at all stations since yesterday, the change being greatest in the south-east of our Islands and at Helder. Readings are now rather uniform, that at Portsmouth exceeding that at Thurso by only 0·28 in., and Christiansund by 0·51 in.-

Temperature has increased slightly in the west and north (except at Greenwich) but decreased in the east. The thermometer fell to 29° in the south of London last night.

The wind is now light, except at Helder. In direction it is NW in Scotland, and W. in the east of England; but continues from NE and E on our south-west coasts.

The sky is very clear in the south-east, but rather cloudy elsewhere. The sea is calm except on our east coast, where, however it is going down. At Helder it is rather rough.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather	Rain.	Sea
Oct.												
10th	Thurso	29·45r	44	42	NNE	2	6	NNE	5	pc	0·19	4
—"—	Wick	29·45r	42	40	NNW	4	5	NNE	6	c	0·09	4
—"—	Nairn	29·49r	42	40	ENE	1	7	ENE	0	ohb	?0·94	2
—"—	Aberdeen	29·42r	41	38	N	2	6	N	3	fhc	0·15	5
—"—	Leith	29·44r	44	41	WNW	5	6	N	1	b	—	—
—"—	Rochefort	29·51f	59	59	W	7	8	W	6	c	0·16	5
—"—	Hearts Content	29·92r	43	42	NNE	1	4	NNE	8	o	0·03	3

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870. October 12th

Wednesday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb. (0 to 9.)
*Christiansund	29·69	37	36	WSW	4	2	WNW	—	ro	—	4
*Skudesnaes ...	29·71	38	37	Z	0	0	Z	—	cb	—	2
*Oxo (Christiansand)	29·68	40	36	NW	4	4	NNW	—	b	—	2
Thurso ...	29·61f	42	40	SSE	1	1	SSE	6	oc	0·06	1
Wick	29·60f	45	44	ESE	4	3	WNW	8	co	0·02	3
Nairn	29·55f	42	40	SSE	2	1	NW	8	o	0·04	2
Aberdeen ...	29·59f	47	44	SE	4	4	SE	8	c	0·01	3
Leith	29·49f	44	42	SE	3	3	W	8	bo	—	—
Shields	29·59f	46	43	SSE	3	3	WNW	4	bc	—	3
Scarborough...	29·64f	46	44	S	4	2	NW	9	co	—	4
Yarmouth ...	29·74f	50	48	SSE	4	4	SW	4	c	—	4
Ardrossan ...	29·40f	46	42	ESE	4	2	NW	8	cro	—	2
Greencastle ...	29·07f	47	46	E	8	1	SW	9	cr	0·40	—
Holyhead ...	29·19f	50	47	ESE	6	3	SSE	7	cr	0·13	—
Liverpool ..	29·36f	49	45	S	5	3	SE	6	cr	0·05	3
Valencia ...	28·94f	58	57	WSW	10	11	SW	9	om	0·76	9
Crookhaven ...	28·91f	59	56	W	10	10	W	9	ro	0·39	7
Roche's Point	29·00f	58	57	SW	9	9	SW	9	r	0·62	7
Pembroke ...	29·14f	56	56	S	9	9	SE	9	or	0·16	6
Penzance ...	29·33f	59	58	WSW	6	6	SE	6	oc	0·15	5
Plymouth ...	29·36f	59	59	SW	6	1	S	9	or	0·16	3
Portsmouth ...	29·55f	—	—	S	8	1	SW	9	co	—	7
Dover ...	29·73f	52	51	SW	7	3	WNW	6	bc	—	6
London ...	29·61f	49	45	SSE	6	6	S	9	bpq	0·01	—
Helder	29·83	50	—	WSW	2	—	—	—	—	—	4
Cape Gris Nez	29·80f	46	41	S	4	3	SSW	9	bo	—	3
Brest	29·54f	62	62	SW	7	7	SW	9	o	—	5
L'Orient ...											
Rochefort ...	29·87	63	61	SW	5	5	ESE	9	cr	0·04	4
Biarritz... ...											
Coruna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·22	46	46	SSE	10	—	—	9	r	—	6
Greencastle ...	28·67	50	49	E	7	—	—	9	r	—	—
Valencia ..	29·13	58	54	W	10	—	—	7	rcq	—	8
Penzance ...	29·44	61	55	WSW	7	—	—	6	cq	—	5
London... ...	29·30	59	57	SW	7	—	—	6	rcq	—	—
Rochefort ...						—	—			—	

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REMARKS.

Wednesday

During the past night a most sudden and rapid decrease of pressure has taken place on our western coasts, exceeding 0·8 in. at Valencia, and extending very quickly to our other stations. Pressure is now below 29 ins. in the south of Ireland, and the reading at Crookhaven is 0·83 ins. less than that at Yarmouth.

Temperature has risen rapidly at all but the northern stations — 19° at Plymouth.

The wind is circulating round the area of low pressure; blowing a hard gale from WSW in the south of Ireland, strong to a gale from the S^wd in the Irish Channel, and a gale from E at Greencastle. In the English Channel there is a fresh and squally SW wind, and light S and SE breezes along our eastern coasts.

Rain has fallen except in the east — heavily at Valencia. The sea is extremely high at Valencia, rough elsewhere — except on our east coast.

Warnings issued to all coasts.

---

2 P.M. The barometrical depression is travelling NE^wds and the gale has extended to our E coasts. In the SW the barometer is rising again, but it still blows hard from W, with a high sea

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Oct^r												
11th	Rochefort	29·935	48	46	SW	5	8	W	4	rc	0·28	3
-"-	Hearts Content	30·015	44	43	W	2	2	W	6	c	—	3
	Correction											
-"-	Cape Gris Nez.	—	—	—	NW	—	—	—	—	—	—	—

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 13th

Thurs-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb. (0 to 9.)
*Christiansund	29·56	54	49	ESE	4	4	SW	—	b	—	4
*Skudesnaes ...	29·39	37	–	NNE	4	4	ESE	—	bc	—	2
*Oxo (Christiansand)	29·32	44	41	NNE	8	4	ENE	—	crs	—	4
Thurso ...	29·51r	47	43	E	5	5	E	6	oc	0·02	3
Wick	29·51r	47	47	ENE	4	6	E	9	o	–	5
Nairn	29·46r	49	48	ENE	6	2	SSE	8	o	0·04	5
Aberdeen ...	29·40r	50	47	NE	4	8	E	7	rc	0·38	7
Leith	29·29r	51	49	ENE	6	8	SE	9	o	0·36	—
Shields	29·14r	50	49	NE	7	9	SE	8	co	0·41	6
Scarborough...	29·08r	52	51	N	3	10	SSE	9	ro	0·57	4
Yarmouth ...	29·04f	50	50	WSW	9	9	SSW	7	qr	0·34	7
Ardrossan ...	29·39f	51	47	NNW	2	9	SE	7	rc	0·70	2
Greencastle ...	29·42r	50	48	ENE	3	7	E	9	r	1·00	—
Holyhead ...	29·29r	51	50	WNW	6	7	SSW	7	o	0·27	—
Liverpool ..	29·20f	53	52	WNW	4	9	S	6	r	0·60	3
Valencia ...	29·63r	55	51	NNW	5	11	WNW	4	bc	0·10	4
Crookhaven ...	29·60r	55	51	NW	6	10	W	5	c	–	3
Roche's Point	29·55r	53	50	WNW	5	10	W	6	oc	0·02	4
Pembroke ...	29·40z	54	51	NW	9	11	WSW	8	o	0·58	5
Penzance ...	29·66r	56	54	W	6	7	W	6	c	0·02	4
Plymouth ...	29·55r	56	53	NW	6	7	WNW	5	oc	0·02	4
Portsmouth ...	29·46r	–	–	WNW	8	9	WSW	4	c	0·11	7
Dover ...	29·29f	55	55	W	7	8	SSW	3	cb	0·10	6
London ...	29·30f	54	50	W	8	10	W	9	pbq	0·05	—
Helder	29·07	54	—	WSW	7	—	—	—	—	—	5
Cape Gris Nez											
Brest	? 29·76z	59	57	W	7	8	WSW	7	of	–	6
L'Orient ...											
Rochefort ...	29·98r	63	61	W	7	7	W	6	c	0·08	4
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·45	50	49	NNE	6	—	—	9	oz	—	5
Greencastle ...						—	—			—	—
Valencia ..	29·75	57	52	N	4	—	—	2	cb	—	3
Penzance ...	29·74	59	55	NNW	6	—	—	6	c	—	2
London... ...	29·50	57	53	W	5	—	—	9	qo	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Thurs- day

The serious barometrical depression which existed in the western parts of the Kingdom yesterday has travelled eastward, and is now over the North Sea. In consequence of this the barometer has fallen rapidly at the eastern stations, (0·76in: at Helder), while on our western coasts it has recovered to an almost equal extent (0·64in: at Valencia). The reading at this latter station is now 0·59in: higher than that at Yarmouth.

Temperature has risen except in the south-west, where it has fallen somewhat.

The wind continues to circulate round the low pressure; blowing freshly from NE in the north, and drawing round through N at our western stations to NW and W in the English Channel. The gale still holds in the south-east of England and Straits of Dover.

Rain has again fallen generally, mostly in the west; and thunder is reported from Valencia. The weather is very cloudy and unsettled. The sea is moderate in the south-west, very rough elsewhere.

Warnings were issued to all coasts yesterday.

2 P.M. The barometer continues rising generally, especially on the east coast, with moderate to fresh and veering winds, and finer weather in the west.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
OCT.												
12TH	Rochefort	29·87f	63	61	SW	5	5	ESE	9	cr	0·04	4
----	Hart's Content	30·08f	48	47	W	1	2	W	5	cf	—	2

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 14th

Fri-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Distu (0 to
*Christiansund	29·84	37	36	SSE	2	2	SSW	—	c	—	3
*Skudesnaes ...	29·86	42	38	ESE	4	4	NNE	—	b	—	2
*Oxo (Christiansund)	29·86	37	34	NNW	4	6	NNW	—	b	—	2
Thurso ...	29·93r	39	37	S	1	2	NE	5	c	—	1
Wick	29·93r	36	35	WNW	2	3	NNE	7	c	—	3
Nairn	29·95r	34	—	NW	1	6	ENE	0	cb	0·02	1
Aberdeen ...	29·98r	38	37	NNW	1	4	NE	0	cb	0·08	4
Leith	29·95r	46	43	SW	2	5	ENE	7	oc	—	—
Shields	29·97r	46	44	NNW	3	5	NE	7	cm	—	6
Scarborough...	29·98r	48	47	NNW	2	6	NNE	7	oc	0·15	3
Yarmouth ...	29·95r	50	49	NW	3	9	NW	3	c.	0·13	5
Ardrossan ...	29·99r	45	43	NE	2	2	NW	7	c	0·07	1
Greencastle ...	29·97r	45	42	N	2	2	NE	2	ob	0·06	—
Holyhead ...	29·97r	49	48	WNW	5	6	NNE	4	oc	0·41	—
Liverpool ..	29·97r	50	48	SE	3	6	W	6	rc	0·22	2
Valencia ...	30·05r	48	47	N	2	4	N	3	pc	0·01	2
Crookhaven ...	30·01r	52	50	?SW	1	5	NW	1	b	—	0
Roche's Point	30·01r	54	52	NW	2	5	NW	8	co	—	3
Pembroke ...	29·99r	49	47	NE	1	9	WNW	4	oc	0·07	3
Penzance ...	30·04r	53	51	NNW	2	6	NW	8	cop	0·02	1
Plymouth ...	29·99r	49	48	Z	0	4	WNW	1	cf	0·03	0
Portsmouth ...	29·98r	—	—	NE	1	9	WNW	5	c	—	1
Dover ...	29·91r	52	51	NNE	2	7	W	5	bm	—	2
London ...	29·96r	49	47	NNW	2	7	W	7	gtc	0·10	—
Helder	29·81	51	—	NE	3	—	—	—	—	—	2
Cape Gris Nez	29·902	50	48	—	4	10	W	9	co	0·20	2
Brest											
L'Orient ...	30·042	54	52	NNW	4	8	W	5	rc	0·024	3
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	29·93	51	44	SW	1	—	—	3	bc	—	1
Scarborough ...	30·02	51	49	W	1	—	—	8	co	—	3
Greencastle ...	30·01	50	49	WNW	1	—	—	8	co	—	—
Valencia ..	30·05	55	51	N	3	—	—	3	c	—	2
Penzance ...	30·06	58	52	N	2	—	—	2	cb	—	1
London... ...	30·03	56	51	N	3	—	—	7	oc	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**. dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Fri-day

The barometer has now risen rapidly throughout our Islands and Norway the change since yesterday morning varying from 0·9in: on our east coast to 0·4in: at our south-western stations. Readings are very uniform, the greatest difference in the British Isles being 0·12in: — Valencia to Thurso or Wick. To the eastward pressure is rather lower.

Temperature has fallen generally, but especially in Scotland;— 15° at Nairn, where it is 20° colder than at Roche's Pt.

The winds have become light and chiefly from the N^wd, but variable in some places.

Some rain has fallen in most parts, and the amount of cloud is variable. The sea continues rough at Shields and Yarmouth, but has gone down elsewhere.

2. pm No important change

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Octr 13th	Pembroke	29·40r	54	51	WNW	9	11	WSW	8	o	0·58	5
—"—	Brest	? 29·76r	59	54	W	7	8	WSW	7	of	—	6
	Correction											
—"—	Penzance	Temperatures should be:- Dry bulb, 56°, Wet bulb 54°.										

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 15th

Saturday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb. (0 to 9.)
*Christiansund	29·88	40	34	S	4	2	SSE	—	o	—	4
*Skudesnaes ...	29·93	41	40	S	4	0	Z	—	cr	—	4
*Oxo (Christiansand)	29·95	45	42	SSE	4	2	N	—	bc	—	2
Thurso ...	29·75f	41	39	S	1	2	SSW	3	c	—	1
Wick	29·77f	47	46	SSW	3	2	NNE	7	c	—	3
Nairn	29·81f	46	43	W	1	1	SW	0	b	—	1
Aberdeen .	29·86f	37	36	WSW	1	1	SW	0	b	—	2
Leith	29·89f	39	39	WSW	1	2	E	3	cf	—	—
Shields	29·94f	41	40	W	2	3	NNW	0	cf	—	3
Scarborough...	29·98f	40	39	WSW	2	1	W	0	ob	—	2
Yarmouth ...	30·00f	45	44	NW	3	3	NNW	3	c	—	3
Ardrossan ...	29·90f	50	47	S	3	2	SW	5	c	—	3
Greencastle ...	29·84f	46	44	SW	2	1	WNW	2	cb	—	—
Holyhead ...	29·95f	48	47	SSW	4	4	WSW	4	c	—	—
Liverpool ..	29·97f	45	43	SE	1	2	SE	3	cf	—	1
Valencia ...	29·88f	53	51	SW	4	3	N	9	p	0·02	3
Crookhaven ...	29·91f	54	51	SW	6	3	WNW	7	bo	—	3
Roche's Point	29·93f	44	40	N	1	2	WSW	9	cf	—	1
Pembroke ...	29·96f	48	47	NE	1	1	WNW	6	c	—	1
Penzance ...	30·01f	50	48	Z	0	2	N	0	b	—	1
Plymouth ...	29·99f	43	42	Z	0	1	SE	0	of	—	0
Portsmouth ...	29·99f	—	—	Z	0	2	E	4	cm	—	0
Dover ...	29·99f	46	46	NE	1	2	NNE	5	bf	0·02	1
London ...	30·01f	38	37	Z	0	3	NNW	9	cbf	—	—
Helder	29·98	49	—	SW	6	—	—	—	—	—	4
Cape Gris Nez	30·02f	48	46	E	1	3	E	1	ob	0·12	1
Brest	? 29·99f	49	47	N	3	3	NNW	8	co	—	2
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)	30·012	50	48	SW	2	7	SSW	2	ope	—	2

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·90	49	46	SW	2	—	—	1	b	—	2
Greencastle ...						—	—			—	—
Valencia ..	29·66	54	51	WSW	7	—	—	9	o2	—	5
Penzance ...	29·93	56	53	WSW	3	—	—	6	cf	—	2
London... ...	29·92	54	49	Z	0	—	—	6	cfg	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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REMARKS.

Satur. day

The barometer continued to rise on all coasts till last evening, when a decrease set in at our western and northern stations, amounting to about 0·2in: in Ireland, and extending subsequently to our other coasts. The lowest reading is now at Thurso, and is 0·26in: less than those at Penzance and London.

Temperature has again fallen considerably except in the extreme west and north, where it has risen;— 12° at Nairn. Valencia is 16° warmer than Aberdeen.

A SW.ly breeze has set in on the Irish and North British coasts; light generally, but freshening at Crookhaven. In the Channel there is a dead calm.

A brilliant aurora was observed in Ireland and Scotland last night. Dense fog now prevails in the south and south-west of our Islands, elsewhere the sky is clear. The sea is slightly disturbed on the Norwegian and Dutch coasts.

2 P. M.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Oct.												
14th	C. Gris Nez	29·90r	50	48	—	4	10	W	9	co	0·20	2
—"—	L'Orient	30·04r	54	52	NNW	4	8	W	5	rc	0·04	5
—"—	Heart's Content	29·61f	62	62	SSW	7	7	SSW	8	rof	1·63	6

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 16th

Sun-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Distr (0 to
*Christiansund	29·74	36	32	ESE	4	4	ESE	—	b	—	2
*Skudesnaes ...	29·68	45	42	SSE	6	6	SSE	—	oc	—	4
*Oxo (Christiansand)	29·76	36	33	? SE	6	4	? SE	—	c	—	3
Thurso ...	28·94f	50	49	SSE	6	5	SSE	7	cr	0·07	4
Wick	28·92f	52	51	SE	8	6	S	9	rc	0·10	6
Nairn	28·90f	50	48	SSE	4	8	NW	8	o	0·06	2
Aberdeen ...	28·98f	50	49	SSE	7	8	SSE	9	r	0·36	8
Leith	28·91f	57	54	WSW	2	6	S	8	bo	0·15	—
Shields	29·11f	50	49	S	7	7	S	8	cr	0·07	4
Scarborough...	29·18f	52	52	S	9	8	S	9	br	0·36	5
Yarmouth ...	29·49f	54	54	SSE	6	6	SW	6	cgr	0·18	6
Ardrossan ...	28·95f	55	54	SW	4	8	SSE	9	co	0·49	5
Greencastle ...	28·88f	54	54	SW	2	7	SW	9	r	0·25	—
Holyhead ...	29·09f	57	56	SSW	4	4	SSE	6	cr	1·03	—
Liverpool ..	29·13f	54	52	S	3	5	SE	9	or	0·14	1
Valencia ...	29·08f	55	53	W	6	8	? SW	4	p	2·01	6
Crookhaven ...	29·11f	57	54	W	8	9	SW	3	rc	1·39	6
Roche's Point	29·18f	55	54	WSW	8	9	SW	9	rfq	1·02	6
Pembroke ...	29·20f	57	57	SW	9	9	SSW	9	ro	1·21	5
Penzance ...	29·39f	58	57	SW	6	4	SSW	9	cr	0·64	4
Plymouth ...	29·45f	58	58	W	6	1	NW	9	or	0·38	4
Portsmouth ...	~~29·29f~~	—	—	~~WSW~~	~~7~~	~~8~~	~~SW~~	~~9~~	~~r~~	~~?~~	~~6~~
Dover ...	29·62f	54	54	SW	7	1	NE	8	bf	0·03	6
London ...	29·50f	54	53	SW	7	7	SW	9	cgr	0·13	—
Helder			—			—	—	—	—	—	
Cape Gris Nez											
Brest											
L'Orient ...											
Rochefort ...	29·97f	59	59	S	5	4	N	6	c	—	4
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)	30·12f	48	43	NNE	1	2	NE	8	of	—	2

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	—
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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REMARKS.

day

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Monday *October. 17th*

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb. (0 to 9.)
*Christiansund	29·32	45	34	SSE	6	6	ESE	—	bo	—	2
*Skudesnaes ...	29·12	48	44	SE	10	8	SE	—	or	—	4
*Oxo (Christiansand)	29·30	46	46	ESE	10	8	ESE	—	or	—	4
Thurso ...	28·80r	46	45	SSE	1	5	SSE	6	c	0·06	1
Wick	28·84r	47	46	! S	2	8	SE	6	rc	0·29	4
Nairn	28·89r	46	45	SW	5	2	SSE	9	o	0·35	2
Aberdeen ...	28·90r	49	48	NW	4	4	SSE	8	or	0·18	4
Leith	28·96r	49	46	W	6	4	W	6	c	0·08	—
Shields	28·98s	48	45	W	8	4	WSW	4	c	0·13	3
Scarborough...	29·13r	49	49	W	3	2	W	5	c	0·12	3
Yarmouth ...	29·32r	50	49	SW	3	6	S	0	rb	0·54	4
Ardrossan ...	29·12r	48	44	NW	9	10	NW	8	po	0·19	4
Greencastle ...	29·29r	45	42	NW	5	9	NW	4	ro	0·99	—
Holyhead ...	29·39r	47	44	WNW	6	5	SSW	4	rc	0·36	—
Liverpool ..	29·24	49	46	NW	6	5	W	6	r	0·46	6
Valencia ...	29·63r	52	49	NNW	6	8	NW	4	p	0·31	6
Crookhaven ...	29·64r	51	46	NW	6	10	NW	1	cb	0·16	3
Roche's Point	29·61r	47	45	WNW	4	9	WSW	6	ogc	0·04	4
Pembroke ...	29·51r	50	44	WNW	6	9	SW	4	oc	0·12	3
Penzance ...	29·69r	51	46	NNW	4	4	W	6	rc	0·32	2
Plymouth ...	29·59r	50	49	W	2	4	W	1	rg	0·15	1
Portsmouth ...	29·52r	—	—	WNW	5	9	WSW	4	rc	†0·61	4
Dover ...	29·41r	51	50	W	4	9	SW	2	gb	0·95	3
London ...	29·43r	48	45	WSW	4	8	SW	1	rgb	0·42	—
Helder	29·28	55	—	SSW	6	—	—	—	—	—	4
Cape Gris Nez	29·44r	53	51	W	7	9	W	7	ro	0·47	6
Brest											
L'Orient ...											
Rochefort ...	29·79s	59	57	W	8	7	?W	6	rc	1·26	4
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)	30·13g	47	46	SW	2	2	SW	9	o	—	3

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·33	51	48	SW	4	—	—	8	c	—	3
Greencastle ...	29·44	46	44	NW	8	—	—	6	or	—	—
Valencia ..	29·83	54	50	NNW	5	—	—	6	p	—	5
Penzance ...	29·79	55	49	NW	4	—	—	6	c	—	2
London... ...	29·58	53	50	W	5	—	—	8	rc	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

† This rainfall is for 48 hrs.

REMARKS.

Mon-day

The barometrical depression which showed itself on our western coasts on Saturday advanced over the northwest of our Islands yesterday, and readings decreased rapidly on all coasts (nearly an inch in the North). It has now crossed Scotland in an E^ly direction and a very brisk recovery has set in, amounting to 0·55 in: at Valencia. The reading at Penzance this morning exceeds that at Wick by 0·85 in:.

Temperature, which had risen considerably yesterday, has fallen again to-day, but is rather uniform

It blew hard from S or SW on nearly all coasts yesterday but the wind has now veered to NW and W, and subsided in most places. At Ardrossan and Shields however the gale still holds from these latter directions.

Rain has been general and heavy especially in the West. The sky has cleared in most places, but the amount of cloud is variable, and rain still falls at Holyhead and Valencia. The sea is rough in the W and NW, moderate elsewhere.

---

2. pm The barometer has risen on all coasts, but the NW gale has extended to Greencastle.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received ~~too~~ late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
Oct 7	Brest	29·998	49	47	N	3	3	NNW	8	co	—	2
15.	Hearts Content	30·012	50	48	SW	2	7	SSW	2	opc	—	2

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 18th

Tues-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb (0 to 9.)
*Christiansund	29·42	50	41	SSE	6	10	SSE	—	o	—	4
*Skudesnaes ...	29·55	48	43	WNW	4	6	SSE	—	o	—	5
*Oxo (Christiansand)	29·50	43	42	N	4	4	SSE	—	o	—	3
Thurso ...	29·57r	43	41	WSW	3	6	WNW	4	cp	0·13	4
Wick	29·59r	44	43	SSW	3	6	WNW	2	cb	0·03	3
Nairn	29·63r	44	42	SW	1	5	W	0	bm	—	1
Aberdeen ...	29·69r	39	37	WSW	1	4	NW	0	cb	—	2
Leith	29·70r	47	42	WSW	4	5	WNW	1	cm	—	—
Shields... ...	29·80r	42	41	W	2	8	W	0	bm	—	1
Scarborough...	29·84r	?42	?41	SW	2	4	SW	1	c	—	2
Yarmouth ...	29·92r	42	41	W	3	4	W	0	cb	—	3
Ardrossan ...	29·74r	48	45	S	4	9	NNW	7	qpc	0·13	4
Greencastle ...	29·64r	45	43	S	2	8	NW	9	o	0·15	—
Holyhead ...	29·76r	48	47	SSE	4	6	WNW	6	co	—	—
Liverpool ..	29·83r	47	45	SE	3	4	NW	3	rc	0·26	2
Valencia ...	29·42f	55	54	S	7	6	NW	9	r	0·30	5
Crookhaven ...	29·49f	56	53	S	7	7	NW	9	co	0·23	5
Roche's Point	29·58f	54	54	S	7	7	S	9	cr	0·05	5
Pembroke ...	29·77r	55	52	S	5	6	W	9	cr	0·05	1
Penzance ...	29·84f	56	54	S	3	4	W	8	co	0·02	3
Plymouth ...	29·88r	55	54	S	3	3	NW	5	c	—	2
Portsmouth ...	29·95r	44	—	ESE	1	7	WNW	5	cm	—	1
Dover ...	29·96r	50	49	NNW	1	4	W	0	b	—	1
London ...	29·94r	43	42	SW	1	5	NW	2	qpb	0·03	—
Helder	29·91	53	—	WSW	6	—	—	—	—	—	4
Cape Gris Nez											
Brest	?29·92f	57	53	S	5	5	SSW	9	o	—	4
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)	30·06r	40	40	S	1	7	WSW	9	ofp	0·03	2

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·83	51	47	SSW	3	—	—	3	bc	—	2
Greencastle ...	29·38	52	50	SSE	5	—	—	9	or	—	—
Valencia ..	29·17	57	56	SSW	7	—	—	8	rq	—	6
Penzance ...	29·67	57	55	S	5	—	—	9	cr	—	6
London... ...	29·90	56	54	SW	2	—	—	9	co	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm, 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Tues-day

The barometer has continued to rise rapidly throughout Gt Britain, but a fresh decrease has commenced in the south of Ireland during the night. The lowest reading is at Valencia, and is 0·54in: less than that at Dover.

Temperature has fallen rapidly in the north and east, but risen somewhat in the west and south. Penzance is 17° warmer than Aberdeen.

The NW gale at Greencastle and Ardrossan has subsided, and the wind has backed quickly to S at all our western and southern stations, freshening considerably in the south of Ireland. Elsewhere light breezes are reported chiefly from SW.

The sky after clearing generally has again become overcast, with rain, in the west; and the weather is extremely unsettled. The sea is rising in the south-west.

Warnings issued to the west and south coasts.

Wed. The barometer is falling generally, mostly in the south-west. A S.ly gale has set in at Roche's Pt with heavy rain and a high sea, and appears to be extending.

Warnings have been issued to our east, and north coasts.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Oct. 16th	Portsmouth	The observations entered opposite this station were taken at 6p.m. instead of 8a.m.										
" 17th	Rochefort	29·79s	59	57	W	8	7	SW	6	rc	1·26	4
—"—	Heart's Content	30·13f	47	46	SW	2	2	SW	9	0	—	3
	CORRECTIONS.											
—"—	Wick	—	—	—	S	—	—	—	—	—	—	—
—"—	Portsmouth.	Rainfall registered includes that for Sunday.										

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 19th

Wednesday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb. (0 to 9.)
*Christiansund	29·67	41	39	ESE	4	0	Z	—	b	—	2
*Skudesnaes ...	29·58	48	44	SE	6	0	Z	—	co	—	4
*Oxo (Christiansand)	29·71	48	46	SE	4	2	W	—	bor	—	2
Thurso ...	28·96f	50	48	S	2	5	SSE	4	oc	0·36	1
Wick	29·01f	49	48	SSW	4	9	SE	7	rc	0·45	5
Nairn	29·03f	49	46	S	2	7	SSE	0	ob	—	2
Aberdeen ...	29·11f	48	46	SSW	3	7	S	1	rb	0·64	4
Leith	29·14f	52	48	SW	5	5	SW	4	oc	0·03	—
Shields	29·30f	50	47	SW	3	9	SW	4	oc	0·09	2
Scarborough...	29·40f	51	49	SSW	3	5	SSW	5	c	0·06	3
Yarmouth ...	29·58f	53	52	S	3	6	S	0	cb	—	3
Ardrossan ...	29·15f	54	50	S	7	10	S	7	cp	0·48	7
Greencastle ...	28·98f	50	49	S	2	5	SSE	9	o	0·42	—
Holyhead ...	29·24f	53	52	SSW	6	8	SSW	8	ro	0·53	—
Liverpool ...	29·45f	51	49	S	4	4	SE	5	rc	0·11	3
Valencia ...	29·20s	51	47	WSW	6	10	NW	7	shc	0·95	6
Crookhaven ...	29·21r	52	47	W	8	10	NW	6	oc	0·62	5
Roche's Point	29·20f	49	48	W	5	9	S	7	thc	0·88	5
Pembroke ...	29·29f	56	54	SSW	9	9	S	9	ro	0·48	5
Penzance ...	29·49f	57	54	WSW	7	6	S	9	r	0·32	7
Plymouth ...	29·57f	57	55	SW	8	8	SW	9	r	0·29	5
Portsmouth ...	29·65f	—	—	WSW	6	8	SSW	9	o	0·10	5
Dover ...	29·65f	55	54	W	3	7	SW	3	b	0·08	3
London ...	29·61f	52	50	WSW	3	7	S	7	bqc	0·11	—
Helder	29·65	48	—	S	6	—	—	—	—	—	5
Cape Gris Nez	29·70f	56	54	W	5	5	W	7	ro	0·16	4
Brest	?29·77r	58	56	W	7	7	W	8	o	0·08	5
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)	30·072	48	46	SW	6	6	SW	2	ogc	0·80	5

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·20	54	52	S	5	—	—	9	o	—	4
Greencastle ...	28·92	51	48	SSW	3	—	—	6	oc	—	—
Valencia ..	29·14	54	53	NW	7	—	—	7	hq	—	7
Penzance ...						—	—			—	
London... ...	29·47	52	51	W	7	—	—	9	qr	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Wednes-day

Barometrical pressure has again decreased rapidly at all stations; and after a slight recovery in the west last evening it has recommenced falling during the night. The lowest reading is at Greencastle, and is 0·72 in: less than that at Cape Gris Nez.

Temperature has risen considerably in Gt. Britain, but fallen in the south of Ireland.

It has blown hard from S and SW on nearly all our coasts during the past day, the wind veering to NW in the south of Ireland in the night and moderating on our north-east coasts. This morning, however, it has again backed and a SW gale has recommenced at our south-western stations*.

Rain has been general and rather heavy: thunder, hail and snow are reported from the south of Ireland. The sky is overcast in the south and the weather continues very unsettled. The sea is very rough at Fungance and Valencia, moderate elsewhere, but nearly calm on the east coast.

All coasts were warned yesterday.

* Note. A special telegram from Pembroke at 9 am reports the wind to have increased to SW 11; the barometer having fallen 0·07 in: since 8 o'clock.

2 pm The barometer continues to fall except at Valencia where it has risen 0·1 in: since 1 pm. The SW. gale has extended up the English Channel, but the wind is veering in the W, with squalls of hail. Warnings repeated to all but the E coast.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Oct.												
18th	Helder	29·91	53	—	WSW	6	—	—	—	—	—	4
—"—	Heart's Content	30·06	40	40	S	1	7	WSW	9	o f p	0·03	2

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 20th

Thursday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb (0 to 9.)
*Christiansund	29·44	51	43	SSE	6	6	SSE	—	c	—	4
*Skudesnaes ...	29·27	46	45	ESE	6	6	SE	—	or	—	4
*Oxo (Christiansand)	29·31	—	—	ESE	4	8	SSE	—	o	—	4
Thurso ...	29·08r	43	42	ENE	1	5	SE	5	oc	0·10	2
Wick	29·10r	50	49	E	4	6	ESE	5	c	0·02	4
Nairn	29·05r	42	41	E	2	1	S	8	cr	0·05	2
Aberdeen ...	29·03r	47	46	E	1	4	SSW	9	or	0·25	4
Leith	28·94r	45	44	NW	5	5	SSW	9	cr	0·28	—
Shields	29·03f	48	45	SW	4	6	S	8	pr	0·02	2
Scarborough...	29·18f	47	45	WSW	5	5	SSW	7	o	0·09	3
Yarmouth ...	29·38f	48	47	W	3	4	SW	4	c	0·15	3
Ardrossan ...	29·02r	48	45	NNW	1	9	SW	7	pqc	0·66	3
Greencastle ...	29·08r	51	50	NW	6	9	NW	9	ro	1·11	—
Holyhead ...	29·27r	49	46	WSW	7	7	SSW	7	o	0·34	—
Liverpool ...	29·24r	48	46	W	6	5	SW	7	or	0·18	5
Valencia ...	29·75r	51	48	NNW	9	11	NW	6	lpq	0·51	9
Crookhaven ...	29·74r	50	45	NW	8	10	WNW	2	hrq	0·64	5
Roche's Point	29·64r	47	45	WNW	6	9	WSW	7	oq	0·22	5
Pembroke ...	29·48r	50	46	WNW	9	11	SW	9	o	0·64	5
Penzance ...	29·95r	51	45	NW	6	8	W	4	rqc	0·90	4
Plymouth ...	29·64r	49	46	NW	6	10	WNW	6	ro	0·45	2
Portsmouth ...	29·57r	—	—	WNW	6	9	SW	6	oc	0·24	5
Dover ...	29·48f	47	45	W	4	8	WSW	3	bpq	0·18	4
London ...	29·48f	45	43	WSW	5	8	NW	8	qro	0·51	—
Helder	29·36	53	—	SW	4	—	—	—	—	—	4
Cape Gris Nez	29·51f	49	45	W	?11	?12	W	9	ro	0·47	7
Brest	?29·78r	51	47	WNW	5	9	W	?5	o	0·16	6
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)	30·02f	36	33	NNW	2	8	NE	4	9oc	—	1

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·12	47	46	WSW	3	—	—	9	20	—	3
Greencastle ...	29·43	53	50	NNW	3	—	—	8	29o	—	—
Valencia ..	29·88	53	49	NNW	8	—	—	5	c/p9	—	9
Penzance ...	29·81	53	48	NNW	6	—	—	5	c	—	4
London... ...	29·44	51	49	SW	9	—	—	9	29	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B. The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Thursday

The barometrical depression noticed in the north-west yesterday has crossed the country in an easterly direction, and is now over the North Sea. The barometer has consequently risen rapidly on all but our east coasts, and the readings at Valencia and Penzance exceed that at Leith by 0·81 in.

Temperature has fallen except in the west of Ireland, where it is the same as it was yesterday morning.

It blew very hard from points between SW and NW on our south and west coasts yesterday, and freshly from the S^ward in the east of England. Light E^ly breezes are now reported from Scotland, while a stiff NW gale prevails in the west of the British Isles, drawing gradually round to moderate W and SW breezes on our North Sea coast.

Rain has again been general, heavy in the west and south: hail and lightning are again reported from the south of Ireland. The weather continues cloudy and very unsettled. The sea is extremely high at Valencia, and rather rough generally.

Warnings were repeated to all but our east coast yesterday afternoon, but drums lowered in Scotland this morning.

---

2 p.m. The barometer continues to rise in the West, especially at Greencastle, but has fallen slightly in the East. The wind is veering N^ward at the Western stations, but still blows hard at Valencia, and has freshened from the SW^ward in London.
Warnings reissued to Scotland, and extended to the East of England.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
Octr 19th	Heart's Content	30·07r	48	46	SW	6	6	SW	2	ofc	0·80	5

Meteorological Office,
ROBERT H. SCOTT,
DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M. **WEATHER REPORT.** 1870. October 21st

Fri-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb. (0 to 9.)
*Christiansund	29·71	46	41	ESE	4	2	ESE	—	o	—	3
*Skudesnaes ...	29·69	43	40	NE	4	6	E	—	ob	—	3
*Oxo (Christiansand)	29·62	45	43	NNE	6	6	E	—	oc	—	3
Thurso ...	29·76r	39	39	S	1	3	NE	3	cm	—	1
Wick	29·77r	41	40	WNW	2	3	E	5	c	—	2
Nairn	29·79r	38	36	SSW	1	1	E	5	bc	—	3
Aberdeen ...	29·79r	44	43	NW	1	3	NW	1	cb	0·02	2
Leith	29·80r	45	42	W	2	5	NNW	2	of	—	—
Shields	29·81r	46	44	NNW	3	5	N	2	cb	0·02	3
Scarborough...	29·78r	48	47	NW	2	5	WSW	7	or	0·31	2
Yarmouth ...	29·77r	50	49	NNW	4	6	W	4	rc	0·39	6
Ardrossan ...	29·87r	43	42	E	1	4	NNW	8	cf	—	1
Greencastle ...	29·83r	47	45	SW	1	6	NW	6	rqc	0·30	—
Holyhead ...	29·90r	50	48	WNW	4	8	WNW	3	oc	0·14	—
Liverpool ...	29·86r	50	48	SW	1	4	SW	3	rf	0·39	1
Valencia ...	29·93f	56	55	SW	3	10	NW	9	pqo	0·04	4
Crookhaven ...	29·94r	56	53	W	3	9	NW	8	co	—	2
Roche's Point	29·96r	48	46	S	1	7	NW	8	rqo	—	2
Pembroke ...	29·86r	51	50	NW	3	10	WNW	7	oc	0·05	2
Penzance ...	30·04r	51	48	N	4	9	NW	6	c	—	2
Plymouth ...	29·99r	52	50	NW	1	9	NW	9	of	—	0
Portsmouth ...	29·92r	—	—	NW	2	8	WNW	5	oc	0·06	1
Dover ...	29·79r	49	48	NNE	2	6	SW	2	b	0·04	3
London ...	29·85r	47	45	NNW	3	8	WNW	4	rqc	0·12	—
Helder	29·64	48	—	NE	2	—	—	—	—	—	2
Cape Gris Nez	29·75r	51	49	N	8	?12	W	6	ro	0·08	6
Brest	?29·85r	54	52	NNW	3	7	WNW	9	o	0·04	3
L'Orient ...	30·07r	51	49	?	4	8	WNW	7	c	—	4
Rochefort ...	30·07r	54	54	N	7	8	NW	4	c	—	4
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)	30·13f	58	58	SSW	6	6	SSW	8	cr	—	5

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·89	52	50	NW	2	—	—	7	c	—	2
Greencastle ...						—	—			—	—
Valencia ..	29·89	58	55	SSW	5	—	—	8	co	—	4
Penzance ...	30·06	57	55	W	3	—	—	9	cr	—	2
London... ...	29·94	57	52	NNW	3	—	—	7	bc	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Fri- day

The barometer has risen rapidly throughout our Islands since yesterday, especially in the north-east, but during the night a fresh decrease (slight at present) has set in at Valencia. Readings are still highest in the south, that at L'Orient exceeding by 0·43in. that at Helder, and by 0·31in. that at Thurso.

Temperature has fallen in the north and north-east, but risen several degrees in the south of Ireland; where it is 18° warmer than at Nairn.

The wind has veered to NW and N throughout Gt. Britain, and to NE at Helder, the gale of yesterday having subsided. In Ireland, however, the wind has again backed to SW, with an overcast sky.

Some rain has fallen, and a brilliant red aurora was noticed in Ireland and Scotland last night. The sky is moderately clear except in the west and south, but the weather is very unsettled.

The sea is moderate at Valencia, calm elsewhere.

Warnings issued to Ireland this morning, but drums lowered on our east coast.

---

2 P.M. The barometer has fallen slightly at Valencia and the wind freshened somewhat from SSW. Elsewhere pressure has increased a little, and light N^ly winds continue in the East of England.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Oct. 20th	Hearts Content.	30·02f	36	33	NNW	2	8	NE	4	goc	—	3
	Correction											
19th	Hearts Content	29·07f	—	—	—	—	—	—	—	—	—	—

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 22nd

Saturday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb. (0 to 9.)
*Christiansund	29·77	43	39	ESE	4	4	SSE	—	co	—	3
*Skudesnaes ...	29·85	46	42	SSE	6	2	ESE	—	bo	—	4
*Oxo (Christiansand)	29·91	42	40	NE	4	4	NNE	—	o	—	3
Thurso ...	29·48f	50	49	S	1	3	SSE	7	oc	0·15	1
Wick	29·49f	52	51	S	3	2	WNW	8	co	0·07	2
Nairn	29·57f	51	50	SW	1	2	SSW	7	oc	0·26	1
Aberdeen ...	29·56f	52	51	SW	1	3	SW	8	co	0·09	2
Leith	29·57f	54	51	W	4	2	W	8	bo	0·02	—
Shields	29·68f	51	50	SW	3	2	NW	8	co	0·02	2
Scarborough ...	29·76f	51	50	SW	3	3	SW	8	c	0·03	3
Yarmouth ...	29·91f	50	50	SSW	3	4	NNW	4	c	—	3
Ardrossan ...	29·62f	53	51	SW	2	6	SW	7	c	0·09	4
Greencastle ...	29·63f	50	49	WSW	1	3	SSW	6	orc	0·03	—
Holyhead ...	29·70f	55	54	WSW	4	4	WSW	6	co	0·63	—
Liverpool ...	29·71f	54	53	SE	2	3	SE	8	cr	0·04	1
Valencia ...	29·81f	51	49	W	3	4	SSW	3	rc	0·07	4
Crookhaven ...	29·80f	54	50	WNW	3	5	SW	3	oc	?	1
Roche's Point	29·77f	50	49	WNW	3	4	SW	6	oc	0·18	3
Pembroke ...	29·74f	54	53	WNW	4	7	SSW	9	r	0·68	4
Penzance ...	29·87f	55	55	SW	5	4	N	9	cor	0·15	4
Plymouth ...	29·91f	56	55	W	4	1	NW	9	o	—	3
Portsmouth ...	29·96f	—	—	WSW	3	2	NW	9	co	—	2
Dover ...	29·96f	53	52	W	3	2	N	4	bc	—	2
London ...	29·93f	53	52	SW	2	5	NW	9	mco	—	—
Helder	30·03	50	—	WSW	3	—	—	—	—	—	2
Cape Gris Nez	29·95f	56	52	WSW	3	5	—	9	bo	—	2
Brest	?30·01f	57	57	SSW	4	4	SSW	9	o	—	4
L'Orient ...											
Rochefort ...	30·15f	52	52	S	1	5	N	9	br	—	3
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	—
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**. b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Saturday

The decrease of barometrical pressure which showed itself at Valencia yesterday has extended to our other coasts during the night, and readings are now rather lower than they were, except at the south-east stations, where they have recovered. Pressure is lowest at Thurso, where it is 0·55 in. less than at Helder, and 0·43 in. less than at Ozö.

Temperature has risen except at Valencia,— from 11° to 13° in the north of Scotland. It is now very uniform between 50° and 56°.

The wind freshened somewhat in the west yesterday, but light to moderate breezes from between S and W are now prevalent throughout the British Isles.

Rain has fallen except in the south and south-east, rather heavily at Pembroke and Holyhead. The sky is very cloudy. The sea is moderate in the south and west, nearly calm elsewhere.

Drums lowered in Ireland.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Oct.												
21st	Hearts Content	30·13f	58	58	SSW	6	6	SSW	8	cr	—	5
	Correction											
—"—	Pembroke	29·96r	—	—	—	—	—	—	—	—	—	—

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 23rd

Sun-day

STATIONS.	Barometer.	Thermometer. Dry	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Distur. (0 to 9)
*Christiansund	29·34	44	40	ESE	6	4	ESE	—	r o	—	2
*Skudesnaes ...	29·23	49	45	ESE	8	6	SSE	—	o	—	7
*Oxo (Christiansand)	29·42	48	47	SE	6	6	SE	—	o	—	4
Thurso ...	28·67f	48	48	NNE	5	2	S	7	l r	0·05	2
Wick	28·62f	53	51	SSE	6	4	SE	8	c o	0·11	5
Nairn	28·59f	48	46	SW	3	5	W	8	o	0·02	2
Aberdeen ... 9 a.m.	28·66f	48	47	SSE	7	7	SSE	9	c r	0·21	6
Leith ... ... 9 a.m.	28·59f	51	48	S	2	3	W	6	c	0·02	—
Shields	28·75f	50	48	S	6	4	WSW	7	o c	0·09	3
Scarborough... 9·30 a.m.	28·82f	50	50	S	3	6	S	8	r	0·46	4
Yarmouth ...	29·00f	53	53	S	6	6	SSW	6	r	0·31	6
Ardrossan ...	28·61f	53	50	SSW	6	8	SSW	6	p c	0·47	7
Greencastle ... 11 a.m.	29·49f	52	50	SSW	4	7	S	7	o c	0·04	—
Holyhead ...											—
Liverpool ...	28·77f	51	49	S	4	4	SW	8	r	0·50	1
Valencia ...	28·92f	53	50	W	8	9	SW	8	c p	1·06	6
Crookhaven ...	28·92f	53	48	WNW	9	10	WNW	3	o c	0·92	7
Roche's Point											
Pembroke ...	28·87f	53	51	WSW	9	10	SW	7	r c	0·70	5
Penzance ... 9 a.m.	29·08f	53	50	W	5	5	SW	8	c o	0·91	4
Plymouth ...	29·06f	52	51	NW	2	3	W	5	r	0·55	2
Portsmouth ... Noon.	28·98f	55	52	WNW	6	8	SW	7	r c	0·32	5
Dover ...	29·13f	55	54	WSW	8	7	W	8	c q p	0·92	6
London ...	29·03f	53	52	SSW	5	7	SW	9	p q r	0·50	—
Helder			—			—	—	—	—	—	
Cape Gris Nez											
Brest	?29·27f	56	54	WSW	7	8	WSW	9	r o	0·16	6
L'Orient ...	29·34r	57	55	WSW	?12	9	WSW	9	r	0·04	7
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)	30·20r	38	38	S	1	2	W	8	c f	—	1

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	—
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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REMARKS.

day

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Mon-day — October 24TH

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Distb. (0 to 9.)
*Christiansund	29·10	49	40	ESE	10	8	ESE	—	o c	—	4
*Skudesnaes ...	28·89	50	43	E	8	8	SE	—	r o	—	6
*Oxo (Christiansand)	28·96	48	47	E	10	10	ESE	—	o r	—	7
Thurso ...	28·54 r	39	38	E	0	5	SE	7	o c	0·02	1
Wick	28·54 r	52	51	SE	5	5	SSE	8	o	0·02	5
Nairn	28·51 r	46	45	WSW	1	2	SE	9	o	0·03	1
Aberdeen ...	28·49 r	50	49	ESE	2	7	SSE	8	o r	0·29	4
Leith	28·49 r	50	48	W	4	5	SW	2	c m	0·09	—
Shields	28·58 r	49	48	SW	2	4	SW	8	c p m	0·01	2
Scarborough...	28·67 s	48	47	WSW	2	6	WSW	8	c o	0·12	2
Yarmouth ...	28·84 s	47	46	SW	4	4	SW	4	r c	0·61	6
Ardrossan ...	28·60 r	52	49	W	2	4	SW	8	o p r	0·46	2
Greencastle ...	28·66 r	50	48	W	6	7	SW	9	r	0·62	—
Holyhead ...	28·80 s	51	49	WSW	7	8	WSW	8	o	0·42	—
Liverpool ...	28·73 —	52	50	—	7	7	NW	9	r	0·30	2
Valencia ...	29·24 r	51	48	NW	9	11	NW	6	l h q	0·24	8
Crookhaven ...	29·24 r	49	45	NW	8	10	WNW	3	r q c	0·35	6
Roche's Point	29·13 r	49	45	NW	8	9	W	4	o q c	0·22	6
Pembroke ...	28·95 r	50	49	WNW	10	11	W	9	o	0·45	6
Penzance ...	29·25 r	52	47	NW	7	8	WNW	6	o c	0·25	5
Plymouth ...	29·02 r	53	48	WNW	9	6	WNW	8	r o	0·06	5
Portsmouth ...	29·01 r	—	—	WNW	7	8	SW	9	o	0·01	6
Dover ...	28·95 s	49	48	W	5	8	WSW	3	c q b	0·17	5
London ...	28·90 s	49	47	W	4	7	SW	9	q c o	0·19	—
Helder	28·89	51	—	SSW	6	—	—	—		—	5
Cape Gris Nez	28·46 s	53	49	WSW	8	8	WSW	9	r	0·28	6
Brest	29·35 r	49	47	NNW	8	9	NW	6	o	0·20	6
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	
Paris			—			—	—	—		—	
Strasbourg ...			—			—	—	—		—	
Lyons			—			—	—	—		—	
Toulon											
Heart'sContent (9 a.m. local time.)	30·36 r	42	40	S	1	1	SSW	8	b o	—	

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	
Valencia ..	29·39	52	48	NW	8	—	—	5	h c q	—	8
Penzance ...						—	—			—	
London... ...	29·08	55	51	W	5	—	—	9	o	—	
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Mon-day

Yesterday morning the barometer had fallen with great rapidity on all coasts, and was below 29 ins: in nearly all of the British Isles. The lowest reading reported is 28·35 ins: - from Greencastle, at 6 p.m. yesterday. A recovery has now set in at our western and northern stations, but pressure is very low in the Northeast: the reading at Leith (28·49 ins:) is 0·76 in: less than that at Penzance, and 0·61 in. less than that at Christiansund.

Temperature has changed very little.

It blew hard from SW on our W & coasts during Saturday night, and freshly from the same quarter in the South yesterday. The wind has now veered to the NW & in Ireland, and the English Channel, and blows very hard; but moderate W and SW breezes are chiefly prevalent in the NE of England, while an E wind is reported from the northern coasts, blowing a strong gale in Norway.

Heavy rain has been general. Aurora was seen in London on Saturday night, and lightning last night.

The weather is overcast and very unsettled. The sea is rough in the south and west.

Our western coasts were warned on Saturday. Warnings now repeated to all but our NE coasts.*

---

2. pm. Only one telegram has arrived - 4 pm.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud	Weather	Rain.	Sea
Oct. 22.	Hearts Content	30·082	45	43	W	2	8	SW	6	pc	9	2

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870. October 25th

Tuesday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb. (0 to 9.)
*Christiansund	29·17	48	41	?S	2	6	ESE	—	c	—	4
*Skudesnaes ...	28·82	49	44	ESE	6	6	E	—	co	—	—
*Oxo (Christiansand)	29·13	49	47	ESE	6	6	SSE	—	ro	—	4
Thurso ...	28·87r	47	46	W	3	2	WSW	7	or	0·26	2
Wick	28·90r	47	46	WSW	6	3	SE	7	oc	0·21	6
Nairn	28·99r	46	44	WNW	4	1	WSW	6	c	0·06	2
Aberdeen ...	29·04r	46	44	W	2	2	SE	3	oc	0·11	2
Leith	29·09r	46	42	W	6	6	W	1	cb	0·02	—
Shields	29·21r	46	43	W	7	7	W	1	cb	—	1
Scarborough...	29·25r	45	43	W	2	2	W	1	cb	—	2
Yarmouth ...	29·40r	44	44	WSW	4	6	WNW	4	c	—	4
Ardrossan ...	29·20r	49	43	WNW	7	9	NW	5	cpq	0·24	6
Greencastle ...	29·23r	42	41	WSW	2	6	WNW	3	oc	0·42	—
Holyhead ...	29·36r	48	45	WSW	5	7	WSW	3	oc	—	—
Liverpool ...	29·34r	48	45	NNW	2	7	NW	4	c	0·03	1
Valencia ...	29·45r	51	48	NNW	5	10	NW	5	hcp	0·08	4
Crookhaven ...	29·45r	48	46	NW	4	9	WNW	2	cb	0·07	1
Roche's Point	29·44r	47	45	W	1	5	NW	9	qo	0·03	2
Pembroke ...	29·41r	52	49	W	3	10	WNW	7	oc	0·05	3
Penzance ...	29·48f	48	48	NNE	2	7	NW	9	cr	0·16	3
Plymouth ...	29·46r	49	48	ENE	1	9	WNW	9	r	0·09	0
Portsmouth ...	29·49r	—	—	Z	0	8	WNW	9	om	0·03	0
Dover ...	29·50r	47	45	WNW	3	6	WNW	3	cb	—	3
London ...	29·46r	44	42	WSW	2	5	W	8	qbc	0·03	—
Helder	29·33	51	—	W	7	—	—	—	—	—	5
Cape Gris Nez	29·30r	51	46	W	7	10	W	5	rc	0·04	5
Brest	?29·56f	58	58	WSW	7	5	WNW	9	om	?	5
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·36	50	45	W	3	—	—	2	b	—	3
Greencastle ...						—	—			—	—
Valencia ..	29·54	53	49	W	4	—	—	6	cp	—	3
Penzance ...						—	—			—	
London... ...	29·49	54	50	WSW	2	—	—	9	o	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Tues-day

The barometer has recovered considerably throughout our Islands from the very low readings reported yesterday, but is still below 29 ins: in the north of Scotland. The change has been greatest at Shields; and during the night a fresh but slight decrease has occurred at Penzance. The highest reading is at Dover, and exceeds by 0·63 in: that at Thurso. In Norway pressure is little changed but the wind has moderated.

Temperature has fallen somewhat except at Valencia and Pembroke.

The gale of the last two days has disappeared from our coasts, and the winds are now generally light or moderate. In direction they are chiefly W.ly, but have veered to the NE.wd at Plymouth and Penzance (with continued rain), and to NNW at Valencia. A strong WNW breeze still holds at Ardrossan.

A brilliant aurora was seen in nearly all parts of this country and Ireland last night. Some rain has fallen except on the east coast of England, where the sky has cleared. Elsewhere cloudy weather is prevalent. The sea has gone down except at Ardrossan.

Drums lowered this morning.

2. pm — The barometer continues to rise slowly in England and the South of Ireland.

Our reports from Penzance, and the North not received — 4 pm.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather	Rain.	Sea.
OCT.R 24TH	Heart's Content	30·365	42	40	S	1	1	SSW	8	bo	—	2
	Correction -											
23RD	Greencastle	Bar: reading should be 28·49 in										

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 26th

Wednesday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb. (0 to 9.)
*Christiansund	29·15	46	40	? ESE	4	6	E	—	c o	—	3
*Skudesnaes ...	29·21	45	44	WSW	4	2	SSE	—	o r	—	4
*Oxo (Christiansand)	29·21	40	39	NW	4	6	E	—	o r	—	3
Thurso ...	29·13r	?39	?38	SSW	2	5	WNW	4	c	0·06	2
Wick	29·12f	42	41	SSW	3	4	WSW	6	c	—	3
Nairn	29·17f	37	35	Z	0	4	WNW	4	bc	—	1
Aberdeen ...	29·22f	42	41	WSW	1	2	W	4	bc	—	1
Leith	29·24f	44	41	W	5	5	W	1	bm	0·06	—
Shields	29·35f	43	40	SW	2	7	W	0	b	—	1
Scarborough...	29·43f	41	40	WSW	2	3	W	3	bc	—	2
Yarmouth ...	29·53s	43	43	SW	3	3	WSW	6	cf	—	3
Ardrossan ...	29·29f	47	43	WSW	5	7	WNW	5	pc	0·11	5
Greencastle ...	29·27f	43	42	SW	6	5	SW	8	c o r	0·15	—
Holyhead ...	29·43f	47	44	WSW	4	5	WSW	4	c	—	—
Liverpool ...	29·44f	46	44	SW	1	3	NNW	2	cb	0·03	1
Valencia ...	29·47f	48	45	WSW	4	6	W	7	Lhq	0·13	4
Crookhaven ...	29·50f	48	46	W	5	6	W	6	co	0·17	3
Roche's Point	29·49f	46	44	W	5	5	W	8	co p	0·02	4
Pembroke ...	29·48f	52	47	W	5	6	W	9	o	0·03	3
Penzance ...	29·60f	50	46	WNW	3	3	WNW	9	co	0·10	2
Plymouth ...	29·58f	47	45	NNW	1	2	NW	9	o r	0·07	0
Portsmouth ...	29·54f	—	—	Z	0	1	SW	9	of	0·11	?6
Dover ...	29·57f	48	46	NW	2	5	WNW	8	bf	—	2
London ...	29·53f	46	45	WSW	2	3	SW	9	cbm	—	—
Helder	29·52	51	—	WSW	6	—	—	—	—	—	2
Cape Gris Nez											
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)	29·72f	43	43	WNW	2	6	SW	8	o r	0·09	2

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	29·12	49	45	SSW	2	—	—	4	c	—	2
Scarborough ...	29·39	45	44	W	1	—	—	9	c r	—	2
Greencastle ...						—	—			—	—
Valencia ..	29·54	49	49	W	4	—	—	8	h p	—	3
Penzance ...	29·61	52	48	WNW	4	—	—	6	o c	—	3
London... ...	29·49	49	48	SW	2	—	—	9	o	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0—dead calm; 9—extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Wednesday

The barometer is higher at all stations than it was yesterday morning, but has recommenced falling on all coasts since last evening (about 0·11 in. at Valencia). Readings continue highest in the south, and that at Penzance exceeds by 0·48 in. that at Thurso.

Temperature has fallen in the north and north-east, but is hardly changed elsewhere. Pembroke is 15° warmer than Nairn.

The wind continues W. or NW. and moderate in the southern part of our Islands, but has backed towards S in the north, and freshened slightly at Greencastle. In the south of Norway it has shifted from ESE to the W.

Brilliant aurora was again seen in all parts of the British Isles last night. Some rain has fallen in the west and south. The sky is overcast except in the N and NE, and hail squalls are prevalent at Valencia. The sea is moderate in the south-west, calm elsewhere.

---

2. pm. The barometer has commenced rising again in the West, but has fallen a little more elsewhere.

Light W. or SW. winds are general, and hail showers are still reported from Valencia.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Oct.												
25th	L'Orient	29·64f	58	58	W	7	8	NW	9	cr	0·47	0
—"—	Rochefort	29·76r	61	59	W	9	9	NW	6	c	0·43	2
—"—	Hearts Content	29·96f	45	44	SW	4	4	SW	9	o	0·06	3
	Correction											
—"—	Greencastle	—	—	—	—	—	—	—	—	oc	—	—

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870. October 27th

Thurs-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Distur (0 to 9
*Christiansund	29·20	38	35	ESE	4	4	W	—	c	—	3
*Skudesnaes ...	29·23	43	43	ENE	2	0	Z	—	c	—	3
*Oxo (Christiansand)	29·22	40	39	WSW	4	2	NNW	—	c	—	3
Thurso ...	29·19r	32	—	SSW	1	2	NW	0	b	—	1
Wick	29·20r	35	34	WSW	3	3	WSW	3	c	—	3
Nairn	29·22s	40	38	SW	1	2	SW	0	ab	—	1
Aberdeen ...	29·20f	39	38	WSW	1	1	WSW	3	bc	—	1
Leith	29·26f	45	42	WSW	5	5	W	2	b	0·01	—
Shields	29·35r	45	44	W	4	3	SW	5	bc	0·13	1
Scarborough...	29·42r	43	42	W	2	2	WSW	9	co	0·13	2
Yarmouth ...	29·57r	42	42	SW	3	3	W	0	cb	—	3
Ardrossan ...	29·35r	47	44	SW	4	6	SW	5	cp	0·12	4
Greencastle ...	29·35r	45	44	SW	4	5	SW	7	pqo	0·17	—
Holyhead ...	29·50r	47	45	WSW	5	5	WSW	8	cr	0·11	—
Liverpool ...	29·47s	49	46	NW	3	2	NNW	9	cr	—	1
Valencia ...	29·67r	51	50	W	4	6	W	6	hp	1·25	6
Crookhaven ...	29·67r	52	49	WNW	5	8	W	4	oc	0·20	3
Roche's Point	29·65r	47	45	W	3	5	W	2	cpb	0·02	2
Pembroke ...	29·60r	52	48	WNW	7	8	W	7	ocq	0·06	4
Penzance ...	29·76r	52	49	WNW	4	6	NW	6	c	0·11	3
Plymouth ...	29·72r	51	49	NNW	3	3	W	2	rm	0·12	1
Portsmouth ...	29·70r	—	—	WNW	5	6	NW	6	oc	0·12	4
Dover ...	29·67r	45	43	WNW	2	2	WNW	1	fb	0·18	2
London ...	29·65r	45	43	WSW	1	3	WSW	7	pbc	0·01	—
Helder	29·52	50	—	WNW	7	—	—	—	—	—	5
Cape Gris Nez	29·70r	50	46	W	5	5	WNW	4	oc	0·35	5
Brest	?29·86s	52	50	W	4	7	WSW	9	r	0·47	4
L'Orient ...	29·95r	54	52	WSW	7	8	E	9	r	0·39	6
Rochefort ...	30·05r	55	53	W	7	10	W	5	c	0·08	5
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)	30·14f	28	—	NNE	3	3	NNE	3	rc	0·15	3

2 P.M. REPORT.

Skudesnaes ...	29·26	48	45	SSE	2	—	—	—	c	—	2
Thurso	29·25	49	45	NNW	1	—	—	3	cb	—	1
Scarborough ...	29·42	49	45	WSW	3	—	—	3	c	—	2
Greencastle ...	29·42	48	46	NW	4	—	—	2	c	—	—
Valencia ..	29·73	53	50	W	4	—	—	9	op	—	4
Penzance ...	29·74	55	52	WNW	5	—	—	8	cr	—	3
London... ...	29·59	54	50	WSW	2	—	—	9	co	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Thurs-day

The barometer has risen slightly at all stations but Aberdeen and Leith, where it stands lower than it did yesterday. The highest pressure in our Islands is at Plymouth, and is 0·53 in. greater than that at Thurso.

Temperature has fallen again in the north of Scotland, but risen slightly in England and Ireland. Pembroke is 20° warmer than Thurso.

The wind has freshened considerably from W at some of our western stations yesterday, and still blows strongly from WNW at Pembroke and also at Helder.

Light SW.ly breezes prevail in the northern districts and light NW.ly in the English Channel.

Aurora was again seen at Valencia last night, and lightning occurred at Portsmouth. The sky is clouded variably and the weather in the west is squally, with showers of hail at Valencia. At this latter station a heavy "ground swell" is reported, the sea being moderate or calm elsewhere.

---

2. pm

No important change.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
OCT.R												
26TH	Cape Bris Hey	29·59f	51	46	NW	1	5	W	9	0	0·08	2
.....	Hearts Content	29·72f	43	43	WNW	2	6	SW	8	0r	0·09	2
	Correction											
.....	Crookhaven	–	–	–	W	–	–	–	–	–	–	–

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 28th

Fri-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturbance (0 to 9)
*Christiansund	29·42	39	37	–	2	0	Z	—	co	—	2
*Skudesnaes ...	29·43	41	40	Z	0	0	Z	—	b	—	2
*Oxo (Christiansand)	29·38	38	37	NNW	4	2	NW	—	bc	—	2
Thurso ...	29·53r	45	42	WNW	4	2	WNW	6	cp	0·22	3
Wick	29·56r	42	41	WNW	4	3	W	7	c	0·11	3
Nairn	29·61r	43	41	NW	1	1	SW	6	bc	0·02	2
Aberdeen ...	29·60r	43	41	W	1	1	WSW	1	cb	—	1
Leith	29·62	44	42	W	1	4	WSW	1	bf	—	—
Shields	29·65r	43	42	WNW	3	4	W	0	cb	—	1
Scarborough...	29·64r	45	44	NW	2	3	WSW	1	cb	0·05	2
Yarmouth ...	29·65r	44	44	W	3	3	W	0	cb	—	3
Ardrossan ...	29·70r	51	47	WNW	3	6	ENE	4	pc	0·19	3
Greencastle ...	29·74r	48	46	WNW	5	5	NW	6	orq	0·35	—
Holyhead ...	29·76r	50	48	WSW	6	6	WSW	3	c	0·06	—
Liverpool ...	29·73r	50	48	NNW	3	4	W	9	r	0·72	1
Valencia ...	30·08r	56	54	NW	7	7	?W	7	rf	0·17	7
Crookhaven ...	?30·09r	56	54	WNW	8	?9	W	9	o	0·16	6
Roche's Point	29·98r	54	52	NW	4	4	NW	9	co	—	3
Pembroke ...	29·90r	52	48	NW	6	7	WNW	7	qc	0·03	3
Penzance ...	30·05r	54	52	NNW	5	5	WNW	7	c	0·14	3
Plymouth ...	29·94r	53	50	NW	3	4	NW	6	mf	—	1
Portsmouth ...	29·81r	—	—	NNE	5	7	WNW	4	c	0·03	4
Dover ...	29·70r	46	45	WNW	3	5	WSW	3	b	0·02	2
London ...	29·75r	47	46	WSW	3	6	W	9	cbr	0·25	—
Helder	29·50	51	—	NW	6	—	—	—	—	—	4
Cape Gris Nez											
Brest	?30·06r	56	54	WSW	7	8	WNW	–	or	0·08	5
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·49	51	47	NNW	2	—	—	6	c	—	2
Greencastle ...	29·89	51	49	WNW	3	—	—	8	o	—	1
Valencia ..	30·15	57	54	NW	5	—	—	4	rc	—	5
Penzance ...						—	—			—	
London... ...	29·89	53	50	SW	2	—	—	9	o	—	1
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mer within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z—c **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squa r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extre high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Friday

Since yesterday the barometer has risen briskly at all stations, principally in the west and north; and the reading at Penzance now exceeds that at Thurso by 0·52 in., and that at Helder by 0·55 in.

Temperature has risen generally, mostly in Scotland. Wick is, however, still 14° colder than Valencia.

The wind again freshened considerably from W at most southern and western stations last evening. NW. breezes are now prevalent on our coasts, light generally but strong in the south of Ireland; while at Brest a strong WSW wind is reported.

Rain has again fallen except in the north-east. The sky is clear on our North Sea coast, cloudy elsewhere. A heavy "ground swell" is again reported from the south of Ireland, and the sea is rough at Brest. Elsewhere it is nearly calm.

---

2. pm Pressure continues to rise everywhere.

Winds are unchanged.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
Oct.												
27th	Shields	29·35r	45	44	W	4	3	SW	5	bc	0·13	1
—"—	L'Orient	29·95r	54	52	WSW	7	8	E	9	r	0·39	6
—"—	Rochefort	30·05r	55	53	W	7	10	W	5	c	0·08	5
—"—	Hearts Content	30·14f	28	—	NNE	3	3	NNE	3	rc	0·15	3
	Corrections											
—"—	Liverpool	—	49	46	—	—	—	—	—	—	—	—
—"—	Nairn	—	—	—	—	—	—	—	0	cb	—	—

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 29th

Saturday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb. (0 to 9.)
*Christiansund	29·67	41	39	WSW	2	0	2	—	co	—	3
*Skudesnaes ...	29·69	38	36	NNE	2	0	2	—	cb	—	2
*Oxo (Christiansand)	29·68	36	34	NW	4	2	NNE	—	cb	—	1
Thurso ...	29·68f	39	37	SSE	1	5	NW	8	co	0·02	1
Wick	29·67f	42	41	SSW	2	3	WNW	8	co	0·03	2
Nairn	29·67f	41	40	ENE	1	1	NW	9	bo	0·04	1
Aberdeen ...	29·76f	40	38	W	1	3	NW	8	com	—	1
Leith	29·72f	46	46	S	1	3	WNW	0	bf	0·02	—
Shields	29·80f	47	47	SSW	2	5	WNW	8	cr	0·03	1
Scarborough...	29·87r	46	46	SW	1	2	NNW	9	co	—	2
Yarmouth ...	29·93r	43	43	W	3	3	WSW	6	f	—	4
Ardrossan ...	29·75f	52	50	SW	4	5	NW	9	o	0·17	4
Greencastle ...	29·66f	50	50	S	2	5	W	9	or	0·26	—
Holyhead ...	29·87f	52	51	SSW	4	5	WSW	9	cr	0·08	—
Liverpool ...	29·87f	52	49	SSE	1	3	N	7	co	0·03	1
Valencia ...	29·80f	57	56	WSW	4	5	NW	9	or	0·30	4
Crookhaven ...	29·81f	55	54	WSW	7	8	W	9	or	0·26	5
Roche's Point	29·82f	53	53	SW	7	7	SW	9	cr	0·10	5
Pembroke ...	29·95f	55	54	WSW	6	6	WNW	9	cr	0·07	3
Penzance ...	30·08f	55	54	WSW	4	6	WNW	9	co	—	3
Plymouth ...	30·08f	55	55	W	2	3	NNW	9	o	—	0
Portsmouth ...	30·04f	—	—	WNW	4	7	NNW	9	co	—	3
Dover ...	29·98r	51	50	W	3	5	WNW	5	bqc	0·02	2
London ...	29·98s	50	49	W	1	3	NW	9	co	0·01	—
Helder	29·86	49	—	NW	5	—	—	—	—	—	4
Cape Gris Nez	29·99r	53	51	WNW	4	5	NW	8	o	—	3
Brest	?30·18f	55	53	WSW	4	5	NW	9	o	0·04	3
L'Orient ...											
Rochefort ...	30·30r	57	55	NW	4	8	SW	9	o	—	4
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)	29·44f	38	38	S	4	5	SSW	0	ob	0·55	6

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·74	50	50	SW	1	—	—	9	20	—	2
Greencastle ...	29·63	50	47	WNW	4	—	—	6	2c	—	—
Valencia ..	29·87	54	53	NNW	4	—	—	8	20	—	4
Penzance ...						—	—			—	
London... ...	29·90	54	53	SW	2	—	—	9	o2	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extreme high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Saturday

The barometer is higher in Great Britain than it was yesterday, but a serious decrease has taken place at the Irish stations, amounting to 0·37in: at Valencia since 6 pm, and extending rapidly to our other coasts. The reading at Rochefort exceeds that at Greenwich by 0·64in.

Temperature has risen in the south of England and fallen in the north of Scotland, but is little changed elsewhere. Thurso is 18° colder than Valencia.

The wind has now "backed" at all stations, and as far as to SW in the south of Ireland, where it has freshened, with rain. Elsewhere it is light or moderate.

Aurora was seen at Thurso last night. The sky is overcast generally, with rain at the western stations; and the weather is very unsettled. The sea is rather rough in the south-west, nearly calm elsewhere.

Warnings issued to the west and south coasts.

---

2 P.M. The depression noticed in the west this morning was of limited area, and has moved rapidly to the NE^ward. At Valencia the wind has already veered to NNW, but the weather continues very unsettled.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
Octr 28th	Hearts Content	30·12f	32	–	SW	2	3	NNE	3	bc	–	2

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. October 30th

Sunday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb. (0 to 9)
*Christiansund	29·44	39	34	ESE	6	2	ESE	—	co	—	3
*Skudesnaes ...	29·48	43	43	ESE	6	4	E	—	cor	—	4
*Oxo (Christiansand)	29·54	45	42	ESE	4	2	NNW	—	bo	—	3
Thurso ...	29·48f	40	38	SW	4	3	WSW	2	ob	0·21	3
Wick	29·49f	44	43	SSW	3	4	SE	6	c	—	3
Nairn	29·54f	43	40	SW	1	1	ENE	0	opb	0·04	1
Aberdeen. 9 am.	29·59r	39	37	SW	1	4	SW	0	ob	0·12	1
Leith ... 9 am.	29·65s	47	44	W	5	3	SW	2	ob	0·10	—
Shields... ...	29·70r	43	41	WNW	5	3	SSW	0	ob	0·10	1
Scarborough...	29·76r	44	43	W	2	1	SW	0	cb	0·05	2
Yarmouth ...	29·82r	50	48	WNW	4	4	S	0	cb	0·18	4
Ardrossan ...	29·71r	47	45	WSW	6	5	N	5	cqp	0·28	5
Greencastle. 9 am.	29·72f	46	45	SW	4	5	NW	6	oqc	0·23	—
Holyhead ...	29·86r	48	45	WSW	5	6	WSW	4	oc	0·35	—
Liverpool ...	29·83r	51	47	SW	3	4	SW	5	rc	0·35	2
Valencia ...	29·99r	51	49	W	3	4	WNW	7	c	—	4
Crookhaven ...											
Roche's Point	29·97r	55	53	NW	3	6	NNW	5	oc	0·16	2
Pembroke ...	29·94r	51	47	W	5	8	SW	7	oc	0·64	3
Penzance 9 am.	30·09r	53	49	NW	3	7	WSW	6	rc	0·41	2
Plymouth ...	30·02r	49	47	WNW	1	4	W	6	rf	0·26	0
Portsmouth. 10 am.	29·97r	49	46	NNW	3	6	WSW	3	oc	0·25	2
Dover ...	29·88r	47	45	WNW	3	4	SW	2	ob	0·47	3
London ...	29·92r	47	45	NW	4	6	SSW	4	rbc	0·32	—
Helder			—			—	—	—	—	—	
Cape Gris Nez	29·86r	49	45	NW	5	5	WSW	4	rc	0·47	4
Brest	?30·06r	52	48	—	3	5	—	3	ob	0·04	4
L'Orient ...											
Rochefort ...	30·14f	59	57	W	7	5	NW	9	co	0·08	0
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)	29·34f	38	38	S	2	4	S	9	of	—	2

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	—
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

day

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Mon-day — *October. 31st*

STATIONS.	Barometer.	Thermometer. Dry	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb. (0 to 9.)
*Christiansund	29·58	40	36	—	2	4	ESE	—	c	—	3
*Skudesnaes ...	29·49	43	40	E	4	4	S	—	oc	—	3
*Oxo (Christiansand)	29·48	45	44	E	6	4	ENE	—	or	—	4
Thurso ...	29·40r	47	45	NW	5	4	SW	6	poo	0·17	2
Wick	29·41r	43	42	WNW	4	4	SSW	7	or	0·18	3
Nairn	29·51r	44	43	WSW	2	4	SW	8	po	0·21	2
Aberdeen ...	29·51s	42	40	W	1	1	SW	0	b	—	1
Leith	29·53s	45	44	W	2	5	W	2	cq	—	—
Shields	29·50q	48	47	W	4	6	WNW	7	c	—	1
Scarborough...	29·52q	47	46	W	2	5	W	9	bo	—	2
Yarmouth ...	29·61q	45	45	WSW	3	3	W	6	r	0·21	3
Ardrossan ...	29·58q	46	46	NW	3	7	WSW	5	opc	0·25	2
Greencastle ...	29·61q	49	47	N	2	4	SW	7	co	0·04	—
Holyhead ...	29·58q	49	47	NNE	4	4	WSW	9	cr	0·60	—
Liverpool ...	29·66	50	49	W	2	5	SW	9	or	0·30	1
Valencia ...	29·78q	56	56	W	4	4	WSW	9	rq	0·75	4
Crookhaven ...	29·70q	?56	?55	W	9	9	W	9	mo	?	6
Roche's Point	29·64q	57	55	WNW	5	5	WNW	8	cmo	0·10	3
Pembroke ...	29·58q	56	56	W	8	9	WSW	9	ro	0·50	4
Penzance ...	29·81q	57	56	WSW	7	8	WSW	9	cr	0·30	5
Plymouth ...	29·75q	57	57	W	3	2	NW	9	or	0·35	1
Portsmouth ...	29·66q	—	—	WNW	6	4	WNW	9	cr	0·12	5
Dover ...	29·61q	53	53	W	?	4	W	9	cr	0·46	0
London ...	29·58q	55	55	WSW	4	6	WSW	9	cor	0·32	—
Helder	29·58	52	—	W	7	—	—	—	—	—	7
Cape Gris Nez	29·62q	56	56	WSW	7	5	W	9	or	0·35	5
Brest	?29·93q	57	55	WSW	7	7	WSW	8	o	0·04	4
L'Orient ...	30·05q	57	57	—	5	5	WSW	9	o	0·12	4
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon.. ...											
Heart'sContent (9 a.m. local time.)	29·91r	35	34	NNE	4	4	NNE	8	os	0·25	4

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...	29·64	52	49	N	3	—	—	6	c	—	4
Greencastle ...	29·83	50	49	N	3	—	—	4	c	—	—
Valencia ..	29·95	55	55	WNW	5	—	—	9	rm	—	4
Penzance ...	29·87	56	55	NW	7	—	—	9	o	—	5
London... ...	29·65	51	50	N	2	—	—	9	ro	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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REMARKS.

Mon-day

Yesterday morning the barometer though lower in Great Britain and higher in Ireland than on Saturday was rising generally. A decrease has however now taken place on all coasts, especially at the more central stations, and the reading at Penzance is 0·41 in: higher than that at Thurso.

Temperature after falling somewhat yesterday, has risen again to-day, and is high in the South.

It has blown hard from the SW^ly on our south-western coasts since Saturday, and the wind there is still strong from W. Light to moderate W^ly breezes are general except in the North Channel, where they have veered to the N^ly.

A considerable amount of rain has fallen, except on our East coast, and the sky is overcast at all W^ly and southern stations. The sea is rather rough in the southwest, nearly calm elsewhere.

---

2 p.m. The barometer is now rising everywhere, with N^ly winds (strong at Penzance), and cloudy weather.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Oct* 29.	Heart's Content	29·448	38	38	S	4	5	SSW	0	0 b	0·66	6
	Correction											
-"-	Ardrossan.	—	—	—	—	—	—	—	—	0 r	—	—

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

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