

Bern Nevis Observatory  
Log - Book  
No. 8.

1

1902

November 6<sup>th</sup>

Thick mist or fog all day, with drizzling rain in morning. SE winds - moderate during the day and blowing a gale at and after 22<sup>h</sup>.  
Gloves observed at 13<sup>h</sup> 35<sup>m</sup>. Two measurements of rad: of red gave 5° 39' and 5° 54'.

Unshipped Robinson's anemometer - taking the cups and arms inside for the winter. Found that a small shaft carrying part of the gearing wheels was broken. Took it down to be repaired.

November 7<sup>th</sup> Stormy all morning. At 4<sup>h</sup> it was too bad to go outside so the temperature was read from storm therm<sup>ts</sup> in tower. Eight previous readings gave a correction of <sup>minus</sup> 0.1 <sup>and this</sup> was applied to the 4<sup>h</sup> reading.

November 8<sup>th</sup>

Wind backed to ESE by 11<sup>h</sup> and blew a moderate gale till 17<sup>h</sup>.

Fog all day. Some snow fell in evening. Ice fog crystals forming in forenoon.  
Obs<sup>n</sup> at 13<sup>h</sup> made at 13<sup>h</sup> 5<sup>m</sup>.



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November 9<sup>th</sup>

Fog or mist and showers of snow.  
noon obs. 4<sup>m</sup> late.

November 11<sup>th</sup>

SE or ESE Winds all day blowing a gale from  
noon till 23<sup>h</sup>.

Fog crystals partly icy forming in afternoon -  
dull in colour at 15<sup>h</sup>.

November 12<sup>th</sup>

Ice forming on all surfaces at 8<sup>h</sup>.

November 13<sup>th</sup>

mist and drizzle most of the day, clearing  
at night. Lunar Corona seen at 22<sup>h</sup> and mid<sup>l</sup>.

November 14<sup>th</sup>

Fog in forenoon: Clear in evening: Fog again  
at night.

Lunar Corona (rad: of outside of red 2°-35') seen at  
1<sup>h</sup>. Fog Crystals forming at times.

November 15<sup>th</sup>

Fog or mist with short clear intervals all day.

Temperature high (mean 37°-4)

Lunar halo seen at 21<sup>h</sup> and 23<sup>h</sup>, (D white o. r. b.)

Two ravens heard in cliff.

Glories and fogbows seen between 11<sup>h</sup> and 12<sup>h</sup>.

The following notes and measurements were made:-

Mist very thick and dry

although conditions were favourable for a brilliant  
display yet only one series of Colours was seen, except  
once a second red was observed but was gone before  
it could be measured.

The fog bow was white and very broad



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Order of Colours: - x white b. y. r' - r'' - Fog bow

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Measurements: -

Outside Red'	inside Red'	Fog bow
5°-26'	4°-23'	Rough shot 38°39'
5°-26'		inside 38°5'
5°-57'		Outside 45°0'
6-2		

all per Stephanome.

November 16<sup>th</sup>

Thick fog or mist. Ice fog crystals in forenoon and ordinary crystals in evening. Peculiar reddish glow in very thick mist - at 7<sup>h</sup> (Put up a compass card and wire to give direction of winds from fog crystals)

November 17<sup>th</sup>

Fog till 9<sup>h</sup>. Cir-c and hard packed Cir-s or Str-c on sky till 16<sup>h</sup>. Sky cloudless after 17<sup>h</sup>. SE to ESE winds all day blowing a gale at and after 18<sup>h</sup>.

A white weasel was seen near thermometer box at 16<sup>h</sup>.

November 18<sup>th</sup>

Sky cloudless except for a little sea at 23<sup>h</sup>. Strong SE to ESE winds, at times blowing a gale. Bright afterglow noted.

Colours strong in spectrum in afternoon. Haze below, and fog seen to E<sup>o</sup> & SE in forenoon.

Miller up Marr down



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November 19<sup>th</sup>

Fog most of the day and fog crystals forming rapidly.

Temperature very steady - range 1° 0.

Strong SE to ESE winds all day

November 20<sup>th</sup>

Fog on Summit - but sky apparently clear  
Lunar Corona at Midnight.

November 21<sup>st</sup>

Thin fog in morning - Cloudless all evening

Shadow of Ben seen at 8<sup>h</sup> and Glories at 10<sup>h</sup>.

A white vessel was seen at 14<sup>h</sup> to S<sup>a</sup> of Orsky.  
Dark Copper colour under Moon at mid! (Colour just above horizon Moon being low)

November 23<sup>rd</sup>

Fog and showers of Snow.

Tracks of vessel seen on snow today

November 24<sup>th</sup>

Fog most of the day. At 22<sup>h</sup>. 23<sup>h</sup>. & 24<sup>h</sup> it was difficult to determine whether it was fog or mist. The same was noted at 11<sup>h</sup> yesterday.

Clear ice forming at midnight [ESE gale at and  
Snow-banking seen at 8<sup>h</sup> after 18<sup>h</sup>

November 25<sup>th</sup>

The gale continued till 7<sup>h</sup> and moderated thereafter but the wind was ESE or SE all day.  
Ice crust over everything today.



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November 26<sup>th</sup>

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mist, with slight drizzle at times.  
 The temperature today was remarkably steady, being 32 most of the day and only rising to 32.6 at night.  
 The deposit on windward side of everything today consisted of clear very sharp-pointed but ragged looking ice. One peculiarity about it was that it was always growing, and still seemed to be thawing, being always wet.

November 27<sup>th</sup>

The above sort of ice continued forming till 5<sup>th</sup> today when the deposit began to be less clear. At 6<sup>th</sup> the tips were quite white — ordinary fog crystals. In clear intervals in afternoon it was noted that the sky was overcast with Cir-s lying NW and SE. Some hard packed Str-Cir was also seen. The wind steadily backed to SE by 14<sup>h</sup> and attained gale force by mid. Lineman up working plant here today.

November 28<sup>th</sup>

SE Gale till 7<sup>h</sup>. Snow falling continuously after 7<sup>h</sup>. Sharp icy drift during gale making reading thermometers somewhat difficult. There is a thick icy crust on everything including the former growth of fog crystals. This growth is from 6 inches to 2 feet long — the higher the longer.

November 29<sup>th</sup>

~~Defog day~~. Fog crystals forming all day — icy at 2<sup>h</sup> and mid, but fine dry and feathery during the day. Temperature falling till 10<sup>h</sup> and rising thereafter till midnight.



1902 November 30<sup>th</sup>

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Fog crystals forming all day: in early morning they were glassy.

December 1<sup>st</sup>

Gale all day ESE or SE x E.

From 2<sup>h</sup> to 4<sup>h</sup> and at and after 16<sup>h</sup> the observer did not go to therm box: but took the reading from storm-therm<sup>t</sup>s in tower. It was found that no correction was necessary.

Fog crystals forming all day. Between 7<sup>h</sup> and 11<sup>h</sup> there were ice. Mist being on summit - not fog.

Barometer pumping wildly

December 2<sup>nd</sup>

The gale moderated by 6<sup>h</sup> today.

Fog all day with fog crystals forming on all exposed surfaces.

There are wreaths of snow from 2 to 3 ft. deep about the house, although only 7 inches at snow-gauge. At the bucket-chape there is a cornice on edge of cliff fully 6 ft. long.

Tracks of weasel seen on snow today

Dec. 3<sup>rd</sup>

During the last 3 days conditions have been much the same. Strong SE or SE, Fog. & Fog crystals.



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December 6<sup>th</sup>

Moderate ESE or SE winds all day  
 Summit clear and sky cloudless since 15 hrs  
 Temperature low all day; air dry after 16 hrs  
 Fog crystals forming all forenoon  
 Today Mr Bee came up, also a horse with  
 provisions. A Rankin went down

December 7<sup>th</sup>

Sky cloudless till 6 hrs cloudy and  
 at times overcast since with Cir-Cum.  
 Slight haze below all day thicker to W  
 The air has been exceptionally dry, with  
 the exception of 1 hr which was 2°2 all the  
 below points have come out minus, ranging  
 from -3°1 to -2°8 while the range of humidity  
 is from 57 to 13 per cent.

A Raven seen at 13 hrs

December 8<sup>th</sup>

Sky cloudy in forenoon but cloudless all afternoon  
 Some det fog on hills to E & S almost all day, but  
 rising up in the evening and passing over summit  
 at times. Air very dry all day, the lowest humidity  
 at 13 at 16 hrs. The shadow of the Ben seen at 9 hrs  
 and the Earth's shadow between 15 + 16 hrs.  
 Snow buntings seen during the day



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December 9<sup>th</sup>

Very thin fog till 14 hrs, Clear till 21 hrs but sky cloudy with Cir-Cum ~~and~~ and hard packed Cir-St moving pretty smartly from E and ESE; fog during the rest of the evening. White fog crystals forming all forenoon and again in the evening. Air dry from 16 to 21 hrs very dry at 18 hrs the humidity being then 16 p.c. Moderate E or ESE winds all day.

December 10<sup>th</sup>

Thin fog; clearing at times during the day. Slight showers of snow in early morning. Needle like snow falling at 15 hrs but amount not measureable. Feathery fog crystals forming most of the day. Lunar Coronae seen during the evening.

December 11<sup>th</sup>

Summit clear most of the day and sky almost cloudless. Cir-S forming after 21 hrs on which a Lunar Halo was seen at 22<sup>h</sup> 23<sup>h</sup> 4<sup>h</sup>. Mist. Solar Coronae seen frequently during the day. Fog on hills all day except to N passing occasionally over hill-top. Air dry all afternoon.



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December 12<sup>th</sup>

Temperature decidedly higher today range 34° to 28°. Air dry very dry in early morning. Sky cloudy most of the day. Fog hanging about hills all day rising up and finally settling on Summit about midnight.

December 13<sup>th</sup>

Wind veered after 10 hrs from S to SW somewhat squally with fog or mist and showers of snow. Earth currents between 18:40<sup>hr</sup> & 18:50<sup>hr</sup>

December 14<sup>th</sup>

Temperature high with strong SE winds in forenoon at times reaching gale force and heavy rain. Showers of snow in afternoon. Summit clear at times during the day but sky overcast with Cirro-Str. Very gloomy appearance all round particularly to SW. Sun & Halo at 4 + 5 hrs. Earth currents at 23:8<sup>hr</sup>

December 15<sup>th</sup>

Snowing heavily all day. The depth of snow today at 15 hrs was 9 inches being an increase of 3 inches but away from gauge and round about Observatory the depth varies from 3 to 10 inches. SE winds till 4 hrs veering to NE at 10 hrs but backing again to S since. Barometer falling rapidly to night



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December 16<sup>th</sup>

Barometer falling rapidly till 5 hrs.  
 wind backed to SE and blew a strong gale till  
 5 hrs veering to SW + W and moderating in  
 force thereafter. Temp very steady till 4 hrs  
 but a quick rise took place at 5 + 6 hrs  
 of 4 degs per hour accompanied with heavy  
 showers of rain + sleet; temp has fallen  
 somewhat since, but barometer rising  
 briskly. From 2 till 4 hrs the observer did  
 not go to the Ther. but took the readings  
 from storm bot in tower. No correction was  
 applied. The measurements of amount of  
 snow at 2. 3. 4 + 5 hrs are interpolations  
Barometer pumping badly till 7 hrs

December 17<sup>th</sup>

Heavy showers of snow fell in early morning  
 during the first 5 hrs the total amount was 0.710 inch  
 slight showers during the rest of the day.  
 Fog all day except at 8 hrs with light variable  
 N<sup>E</sup> airs but backing in the evening to S

December 18<sup>th</sup>

Strong squally N<sup>E</sup> winds with heavy showers  
 of snow all day. Snow drifting badly all day  
Barometer pumping wildly



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11

December 19<sup>th</sup>

Glazed frost all afternoon, the temp being  
steady  $30^{\circ}$  to  $31^{\circ}$ . Thin fog and at times clearing  
in early morning. Squally N<sup>W</sup> winds all day  
Barometer pumping

December 20<sup>th</sup>

Summit clear at 17 hrs. Mist during the  
rest of the day, with drizzling rain and high  
temperature. Glazed frost till noon

A man up today with letters etc.

December 21<sup>st</sup>

Mist with drizzling rain till 14 hrs, clear since  
the mist sinking below summit to about 4000 ft.  
Temperature at the same time rose quickly  $5^{\circ}$  or  $6^{\circ}$   
and continued rising during the rest of the  
evening. Temperature has been exceptionally  
high all day range  $35^{\circ}$  to  $45^{\circ}$ . Air very dry  
since 15 hrs. Light variable N<sup>W</sup> winds all day

Earth shadow seen at 15 hrs 40 mins

December 22<sup>nd</sup>

A very fine day. Temperature high and air dry.  
A little cir + cir-c in sky during the day but moving slowly  
from N. Fog all round to about 4000 ft all day  
Aurora seen with shifting streamers at 22 hrs



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December 23<sup>rd</sup>

12

Clear and cloudless till 4 P.M. then mist with drizzling rain all evening.

Aurora at 1<sup>15</sup> and a lunar corona at 6 and 7 P.M.

Today Mr. R. W. Macdougall came up and Mr. J. Miller went down to 4<sup>15</sup> P.M.

December 24<sup>th</sup>

Light squally Northwesterly or westerly winds, and continuous rain or sleet throughout the day.

December 25<sup>th</sup>

Moderate to strong, squally Northerly winds, with continuous rain, sleet, and snow-hail.

St. Elmo's fire seen at 10 P.M.  
Barometer pumping all day.

December 26<sup>th</sup>

Heavy snow fell till 10 P.M. and heavy rain thereafter.

Barometer pumping slightly in early morning and again from 10<sup>15</sup> till midnight.



1902 December 27<sup>th</sup>

13

Strong squally westerly winds and very heavy rain and sleet throughout the day.

Temperature during the day was fairly high and steady, but falling toward night.

Barometer pumping all day.

December 28<sup>th</sup>

Very stormy throughout the day with heavy snow and snow-hail.

The summit was clear at intervals about mid-day, and the sky ~~looked~~ presented a very gloomy appearance while thick haze lay in the valleys.

Thunder was heard and lightning seen, three times between 14 & 15<sup>hrs</sup> and a brilliant display of St Elmo's fire was observed at 19<sup>hrs</sup>.

Barometer pumping all day.

December 29<sup>th</sup>

Continuous snow & snow-hail till mid. The wind-force moderated somewhat after 5<sup>hrs</sup> but continued squally.

Barometer pumping in early morning and again slightly at night.



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December 30<sup>th</sup>

14

Showers of snow in early morning and again during the evening, with squally North or North-easterly winds to most of the day.

Barometer pumping till 8<sup>h</sup> and again from 18<sup>h</sup> till midnight.

December 31<sup>st</sup>

The hill-top cleared after 7<sup>h</sup> and during the rest of the day the sky was pretty well covered with cirrus or cirro-str till 18<sup>h</sup> then cloudless.

Haze lay in the valleys all day.

at 9<sup>h</sup> 15<sup>m</sup> a winter box with wet <sup>dry 1392449</sup> 1392450 was put out on ladder stand A and the hourly readings were thereafter taken there. at 15<sup>h</sup> the depth of snow at gauge was 14 inches and the bulbs were 41 inches above snow.

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Barometer No. 1385 has been in use for the hourly observations throughout the year, and No. 1252 kept in reserve.

Thermometers; - Dry bulbs 535541, 1392449 and wet 535542, 1392450 were in regular use. Minimum No 116918 was used in the large screen, and min No 1108531<sup>A</sup> in the small (winter) screen.

From 21<sup>st</sup> June to 31<sup>st</sup> December (incl) the thermometers were exposed in the large Stevenson screen, and during the rest of the year, in the small pattern fixed to ladder stand No 2.

The Richard Barograph, Campbell Stokes sunshine recorder, and Hilgers pocket Spectroscope were in use throughout.

A number of observations were taken with the Stephanome

Neither the dust counter nor Robinson Anemometer have been in working order. The latter however, was set going in October but only a few observations were taken when it had to be taken in for the winter.

The same two 5 inch raingauges have been in use summer & winter, and the rims are a bit the worse of wear.

The depth of snow has, as usual, been measured at Post A

Communication between the Low



Level Observatory and Fort W. P.O. has been maintained by Telephone.

The Anemograph clock is still used as the standard clock for time at the Observatory and is checked daily by signal from Fort W. Post office.

A number of photographs were taken with the Observatory Camera.

In very severe weather the Storm thermometer in the Tower was used for hourly observations.

The staff of the Observatory consists of - A. Rankin, J. Miller, R. H. Macdonald, J. C. Marr, W. Bee and D. Gordon. The following assisted at times viz. J. Affleck, R. Aitken, W. Gentle, H. D. Robb and J. Ford.

Observations were taken at the Half way Hut by Messrs Wedderburn & Aitken during August.

Hugh McKenzie acted as Roadman and ticket collector from March till October.

Mr Neil Cameron acted as Telephone Clerk from 1<sup>st</sup> July till 30<sup>th</sup> September.

The Lean-to, which for a number of years has been used as a shelter for the Observatory horses, has entirely collapsed.

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1903

1903.

17

January 1<sup>st</sup>

At 1<sup>1<sup>45</sup></sup> the sun was clear of fog and the sky was cloudless, but during the rest of the day the summit was enveloped in fog, and slight showers of snow fell during the forenoon.

During the evening the wind backed from south and south-west, to south-east, and increased in force to that of a strong breeze.

Two gentlemen ascended the hill today and called at the Observatory

January 2<sup>nd</sup>

Light southerly or southwesterly winds all day, with showers of snow in forenoon

January 3<sup>rd</sup>

Fog with heavy fall of snow and snow-hail. moderate squally westerly winds all day.

at 12<sup>1<sup>45</sup></sup> the thermometer box was raised one step on ladder, height above snow at 15<sup>1<sup>45</sup></sup> 50 inches.

St Elmo's fire seen at 2<sup>h</sup>, 20<sup>1<sup>45</sup></sup> & 22<sup>1<sup>45</sup></sup>, being very bright on each occasion



1903

January 4<sup>th</sup>

18

Showers of snow, snow-hail and sleet throughout the day.

Temperature rose steadily till noon (23°6 to 28°1) and remained fairly steady thereafter.

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January 5<sup>th</sup>

From 4<sup>h</sup> till 20<sup>h</sup> the hill-top was clear, sky overcast or nearly so, and the air was dry, and clear.

Fog lay over the surrounding hills most of the day, and the wind from being light northerly in the forenoon backed to south-east in the afternoon and increased in force to a strong breeze at night.

Glazed frost was noted at 2<sup>h</sup>, Lunar coronae at 17<sup>h</sup> 19<sup>h</sup> & 20<sup>h</sup> and a Lunar halo at 20<sup>h</sup>.

Today the hourly amount of sunshine was calculated from half hour to half hour, this method of calculation to be continued from now.

Thermometer box changed at 9<sup>h</sup> 15<sup>m</sup> <sup>DT, 5355241</sup> Net — 42 put out, height not altered.



1903

January 6<sup>th</sup>

19

"Fog or mist" with slight showers of snow, and sleet.

St. Elmo's fire seen at midnight.

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January 7<sup>th</sup>

Snow from 6<sup>hrs</sup> till 20<sup>hrs</sup>.

at 15<sup>hrs</sup> the depth of snow at gauge was 47 inches, and the bulbs were 43 inches above snow.

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January 8<sup>th</sup>

Fog and slight showers of snow in forenoon. In the evening the hill-top cleared, and the sky was covered with stratus and Cirro-stratus, after 21<sup>hrs</sup> the air became very dry, the humidity being as low as 23% at 23<sup>hrs</sup>

Lunar Coronae noted at 17, 19, & 20<sup>hrs</sup> and a Lunar halo at 20 & 21<sup>hrs</sup>

The thermometer box was changed at 20<sup>hrs</sup> 15<sup>mins</sup> dry 139.2449 feet only height not altered.  
Wet 139.2450

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1903

January 9<sup>th</sup>

20

The hill top continued clear till 4<sup>45</sup> but was enveloped in fog the rest of the day.

after 6<sup>15</sup> a strong breeze from the East-south-east sprung up, increasing to gale force after 8<sup>45</sup> and continuing so till 13<sup>45</sup> moderating somewhat thereafter, and becoming squally.

after 21<sup>45</sup> the wind backed to north and was very squally.

Snow fell most of the day, but the measurements are doubtful owing to the heavy snow-drifting.

Barometer pumping from 7<sup>45</sup> till midnight

January 10<sup>th</sup>

Strong squally wind continued till 18<sup>45</sup> the velocity ranging from 30 to 90 and 100 miles per hour. It being very difficult to keep the lantern from being blown out in early morning, the storm thermometer in tower was read along with the outside observations, and it was found that the greatest difference was 0.2 while the mean of 8 observations came



1903

January 10<sup>th</sup> contd

21

Came out the same as the readings of the Stevenson.

Some showers of snow fell during the forenoon, but no measurements of precipitation could be taken owing to the heavy drifting, while at times the rain-gauge was, along with its base or holder, carried away some distance.

after 19<sup>th</sup> when the wind had fallen considerably, the hill top cleared, and fog was passing till midnight.

at 23<sup>rd</sup> + 24<sup>th</sup> a lunar corona was noted

Barometer pumping heavily till mid<sup>t</sup>.  
The 18<sup>th</sup> observation was started at 18<sup>h</sup> 5<sup>m</sup>.  
no correction applied to readings.

January 11<sup>th</sup>

The hill top was clear at times during the day, but the air continued saturated, due to fog passing.

Lunar corona at 2<sup>nd</sup>, 19<sup>th</sup>, 21<sup>st</sup> + mid<sup>t</sup>.

Barometer pumping slightly till noon



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22

January 12<sup>th</sup>

Fog enveloped the Ben till 13<sup>Hrs</sup> there-  
after the summit was clear and the sky  
absolutely cloudless till midnight.

During the evening the air was, for the  
most part, saturated.

The Barometer rose steadily all day, while  
the temperature was low and steady.

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January 13<sup>th</sup>

A very fine but cold day.  
Sky absolutely cloudless, except at 19<sup>Hrs</sup>  
when fog was passing.

Some haze lay in the surrounding  
valleys, and patches of fog on the  
hills SE<sup>W</sup>. Air moderately dry all day.

The Barometer is still rising, and  
temperature steady.

Glories at 15<sup>Hrs</sup> and a lunar corona  
at 19<sup>Hrs</sup>

Today Mr. D. Gordon went down to  
Fort William on private business

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1903 January 14<sup>th</sup>

Clear and air dry in forenoon  
fog passing during the evening

Barometer high and unsteady, temperature  
low and steady during the day, falling  
slightly in evening.

Lunar Corona at 6 and 7<sup>14</sup>

January 15<sup>th</sup>

The sky was cloudless most  
of the day, and a thick band of  
haze surrounded the horizon.

A strong southeasterly breeze blew  
during the forenoon increasing in force  
to that of a strong gale at night  
Barometer pumping all day.

January 16<sup>th</sup>

sky slightly clouded, and fog passing  
over summit most of the day.

A South east gale of hurricane force  
blew till 17 Hrs moderating slightly there-  
after. At 2 and 3 Hrs the temperature was  
read at the storm thermometers in towers

The sunshine recorder having been  
repeatedly blown off the pillar, it had  
to be taken inside, and the values



1903

January 16<sup>th</sup> contd

24

values, <sup>entered</sup> in the daily sheets are interpolations.

During the day the temperature inside the observatory was very low, in the kitchen a thermometer placed about six feet from the stove stood at  $25^{\circ}\text{F}$  all evening.

Barometer pumping all day.

January 17<sup>th</sup>

Moderate to strong southeasterly breeze all day. Fog lay over the Ben from 7<sup>hrs</sup> till 16<sup>hrs</sup>, air slightly dry in evening.

Barometer pumping till 10<sup>hrs</sup>.

January 18<sup>th</sup>

Dark brown fog crystals forming all day.

January 19<sup>th</sup>

Clearing at times in afternoon sky cloudless after 22<sup>hrs</sup>

Thermometer box changed after Mid<sup>t</sup>.

Dry 53 53 41  
Wet — 42 and min 110 85 31 A feet out

Lunar Corona at 4<sup>hrs</sup>



1903 January 20<sup>th</sup>

25

clear and sky somewhat cloudy till  
9<sup>th</sup> fog thereafter.

White fog crystals forming all evening.

Lunar corona at 3<sup>15<sup>th</sup></sup>

January 21<sup>st</sup>

Dark brown fog crystals forming all  
forenoon. Heavy showers of hail fell  
between 19<sup>th</sup> and Midnight.

January 22<sup>nd</sup>

Snowing heavily all day.

January 23<sup>rd</sup>

Snow continued falling throughout  
the day. Light squally west or north-westward  
winds, increasing in velocity in evening.  
Barometer pumping from 18<sup>th</sup> till mid<sup>st</sup>.

January 24<sup>th</sup>

Heavy showers of snow & hail  
fell during the day.

St Elmo's fire seen at 6<sup>th</sup>

Barometer pumping till 5<sup>th</sup>



1903 January 25<sup>th</sup>

26

Strong squally westerly winds blew throughout the day.

The temperature reached the freezing point at 3<sup>11:45</sup>, remained steady till noon but fell slightly thereafter.

Rain, sleet, or hail fell throughout the day.

Barometer pumping heavily all day

January 26<sup>th</sup>

Wind continued very squally although not quite so strong.

Showers of rain fell in forenoon, and sleet, snow, and hail in the evening

Several flashes of sheet lightning were seen at 22<sup>45</sup>

Barometer pumping slightly all day.

January 27<sup>th</sup>

Snow and snow-hail fell heavily all day.

Lightning <sup>noted</sup> seen at 2<sup>11:30<sup>m</sup></sup> and St Elmo's fire at 1<sup>11:45</sup>, 13<sup>11:45</sup>, 18<sup>11:45</sup> and midnight

Barometer pumping slightly all day.



1903 January 28<sup>th</sup>

27

Snow continued to fall throughout the day, and the wind from being west or north west in the forenoon veered to north and north east in the evening. St Elms' fire was seen at 1 and 2 <sup>11<sup>45</sup></sup>, and at the latter hour snow-hail was falling heavily and St Elms was exceptionally bright.

January 29<sup>th</sup>

The temperature rose steadily all day (25.1 to 34.6). Snow fell till noon and then rain fell copiously till midnight, the total amount for the 24 hours being 4.978 inches.

Strong squally North westerly winds blew throughout the day.

The 16<sup>45</sup> observation was started at 16<sup>45</sup> (no correction applied to readings).

Barometer pumping all day.

January 30<sup>th</sup>

Rain fell continuously till 22 <sup>45</sup>. The depth of snow from being 48 inches yesterday was reduced to 42 inches at 15 <sup>45</sup> today.

Barometer pumping from 1 to 5 <sup>45</sup> and again at 15 <sup>45</sup>.



1903

February 1<sup>st</sup>

28

Heavy showers of snow fell in the early morning, and slight showers during the day. The hill top was clearing at times in the afternoon but fog was passing.

Today Mr J. Robertson arrived at the Observatory to take over the duties of Cook and Steward in room of Mr D. Gordon. Mr Hugh McKenzie who accompanied Robertson as guide, remained at the Observatory over night.

Barometer pumping slightly all day.

February 2<sup>nd</sup>

Occasional slight showers of snow fell during the day, and sleet and drizzling rain in the evening.

Glazed frost at 20 and 23 Hrs.

Today Mr David Gordon left the Observatory accompanied by H. W. Kenzie.

February 3<sup>rd</sup>

Temperature has been high and very steady throughout the day.  
Light but continuous rain fell all day.



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February 4<sup>th</sup>

29

mist and rain all day.  
Temperature has been exceptionally steady  
throughout the day (range  $31^{\circ}8$  to  $32^{\circ}4$ )

February 5<sup>th</sup>

Temperature showed ~~some~~ a less  
limited range today ( $30^{\circ}0$  to  $34^{\circ}0$ ).

showers of snow, sleet, and rain fell  
during the day

February 6<sup>th</sup>

Temperature continued fairly  
high and steady till 15<sup>h</sup> but fell rapidly  
thereafter. Heavy showers of snow-hail  
fell during the evening.

Barometer pumping from 5<sup>h</sup> till 14<sup>h</sup>  
The 23 Hours observation was started at  
23<sup>h</sup> 5<sup>mins</sup> (No correction applied to readings)

No Telephonic communication could  
be had this evening, with either the  
Fort William observatory or the Post office,  
and the daily newspaper report could  
not be sent.

---



1903 February 7<sup>th</sup>

30

Heavy snow in forenoon and rain in the evening.

The telephonic interruption still continues and no communication could be had with Fort William today.

Glazed frost noted at 21, 22 & 23 Hours.  
Barometer pumping from 7<sup>45</sup> till 16<sup>45</sup>

February 8<sup>th</sup>

Still no alteration in the telephone, and the daily weather report could not be sent this evening.

Temperature although somewhat high has been unsteady throughout the day, and showers of snow, sleet and rain fell.

Glazed frost at 1<sup>45</sup> and 22<sup>45</sup>

February 9<sup>th</sup>

Rain fell till 12<sup>45</sup>, clear and air dry thereafter.

Lunar halo at 19 & 20<sup>45</sup> and Corona at 21<sup>45</sup>

Today the telegraph lineman repaired the telephone. The break down was caused by the bursting of a coil in the lightning protector.



1903

31

February 10<sup>th</sup>

Mist and heavy showers of rain during the day.

Temperature has been high and very steady till 17 Hrs. ( $34^{\circ}$  to  $36^{\circ}$ ) but fell slightly thereafter.

February 11<sup>th</sup>

The observation at midnight was started 4 minutes late (no correction applied to readings).

February 12<sup>th</sup>

The hill top cleared in afternoon but the air remained saturated, large banks of fog hanging about all round and passing over the summit.

Runan Coronat noted at 21, 22, & 23 Hrs.  
Box changed at 15<sup>h</sup> 15<sup>min</sup> <sup>50</sup> 1392449 and same min put out  
W 22 50

February 13<sup>th</sup>

Mist or fog and showers of sleet and snow during the day.

February 14<sup>th</sup>

The temperature has been fairly high and very steady all day (range  $31.6$  to  $33.3$ ). Drizzling rain fell nearly all day.

Barometer pumping slightly at 3 & 4 Hrs



1903

February 15<sup>th</sup>

32

Clear and air slightly dry in forenoon and again in evening.

Temperature still high and steady.

Some Snow buntings were seen in the afternoon, and a Raven was seen in the observatory gorge at 17 Hrs.

The 8 Hrs observation was started 5 minutes late (no correction applied)

The thermometer box was changed at 9<sup>h</sup> 15<sup>m</sup>.  
Dry 535541 Wet 535542 and same min put out.

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February 16<sup>th</sup>

Sky clouded and air slightly dry at times in the forenoon, Fog or mist the rest of the day.

Lunar corona at 4 Hrs.

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February 17<sup>th</sup>

Fog or mist all day, with slight drizzling rain in evening.

Fog crystals were forming rapidly in the early morning.

The temperature rose steadily till 15 Hrs (26° 5 to 35° 1) and remained somewhat steady thereafter till mid<sup>t</sup>

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1903

February 18<sup>th</sup>

33

Slight drizzling rain till 2<sup>PM</sup>.  
Fog crystals were forming rapidly during  
the day. Moderate south westerly winds  
blew during the day, increasing in  
force, and becoming squally after 20<sup>PM</sup>.  
Barometer pumping from 20<sup>PM</sup> till midn.

February 19<sup>th</sup>

Mist or fog all day, with heavy  
showers of rain, hail and snow. Moderate  
squally winds blew during the day, westerly  
or south-westerly in the morning, veering  
to northerly in the evening; in the forenoon  
they almost reached gale force, and at  
13 hrs. the rainfall was interpolated, - as  
the rain gauge was blown away.

Barometer pumping all day.

February 20<sup>th</sup>

Squally westerly or north-westerly  
winds during the day, light in the  
morning, but increasing in force  
during the afternoon, at which time the



1903

February 20<sup>th</sup> Cont.

34

barometer was falling quickly. Barometer pumping in the evening. The temperature rose fairly high in the evening, showers of snow in the morning and snow, rain, sleet and hail in the evening.

Lightning seen at 3:3, 3:38 and 3:44 am

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February 21<sup>st</sup>

Fog all day with continual snowfall. Light NW & winds. Temperature falling throughout the day.

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February 22<sup>nd</sup>

Fog with almost continual snow, at 18 hrs the rainfall was interpolated as the rain gauge was full of drift, snow drifting most of the day. Specially North-westerly winds fairly light in the morning, but increasing in force in the evening.

Barometer pumping in the evening.



1903

35

February 23<sup>rd</sup>

Fog with snow falling till 2 1/2 hrs, at 2 hrs the rainfall was interpolated, as the gauge was blown over.

Barometer rising most of the day, and pumping in the early morning.

February 24<sup>th</sup>

Fog all day with almost continuous snow. Moderate squally winds from the western half of the compass. The snow was drifting the whole day. Temperature showed a large range.

Barometer pumping from 5 hrs onwards.

February 25<sup>th</sup>

Fog with almost continual snow.

Moderate squally winds, fairly strong and westerly in the morning, decreasing in force and chiefly NW  $\frac{1}{2}$  throughout the day, backing to SE in the evening and



1903

February 25<sup>th</sup> cont.

36

again increasing in force. In the evening the barometer fell quickly. Thick drift all day. Barometer pumping in the morning. Lightning seen at 1:5 am.

February 26<sup>th</sup>

Fog, with heavy snow most of the day. North-westerly breezes during the day, backing to South-east in the evening, and increasing in force. Barometer pumping at 23 hrs and Mt. and falling very rapidly.

The tower thermometer was read at Mid-night and found to agree exactly with the Stevenson screen thermometer.

February 27<sup>th</sup>

Fog with snow all day. Strong south-easterly gale in the early morning, when the barometer fell very rapidly till 5 am, and rose again till midnight; the



wind decreased to a light southerly breeze during the day, and veered to north in the evening. Very thick drift in the early morning, from 1 to 5 hrs the rainfall was interpolated. At 2, 3 and 4 hrs the tower thermometer readings were used, throughout the gale, the tower readings were found to agree correctly with those of the Stevenson Screen.

Barometer pumping in early morning.

February 28<sup>th</sup>

at 6<sup>00</sup> the hill top was clear and the sky cloudless, but fog was passing.

Today Mr A. Lindsay arrived at the observatory, and Mr Wm Bell went down to the Low Level



1903

March 1<sup>st</sup>

38

Fog with heavy showers of snow throughout the day.

at 19 Hrs 15 mins, the thermometer box was changed and Dry 535541 Wet 535542 and the same minimums were put out. (Height above snow not altered).

at 15 Hrs the depth of snow at the gauge was 56 inches, and the thermometers were 39 inches above snow.

at 8 Hrs the amount of rainfall is interpolated, the gauge having been buried in a snow-wreath.

March 2<sup>nd</sup>

Some slight showers of snow fell during the day.

Barometer pumping slightly at 23<sup>Hrs</sup> mid-

March 3<sup>rd</sup>

The summit was clear and the sky cloudless in the early morning and again for a few hours in the afternoon.

From 16 till 18 Hrs the air was very dry.

at 3 Hrs 15 mins the thermometer box was changed and Dry 1392449 Wet 1392450 and the same min were put out, the box was raised one step on ladder. At 15<sup>Hrs</sup> 15<sup>min</sup> the box was again changed and Dry 535541 Wet 535542 put out. Height above snow at 15<sup>Hrs</sup> 61 inches



1903

March 4<sup>th</sup>

39

Fog with continuous heavy snow throughout the day.

The wind veered from south-west in the early morning, to North West and west during the day.

Barometer pumping slightly from 4<sup>hrs</sup> till 10<sup>hrs</sup>.

---

March 5<sup>th</sup>

Snow fell continuously throughout the day. Some heavy showers of snow-hail fell in the afternoon.

at 1<sup>hr</sup> St Elmo's fire was noted and Lightning was seen at 2<sup>hr</sup> 8<sup>m</sup>.

The temperature has been very steady throughout the day (18°6 to 22°6).

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March 6<sup>th</sup>

Heavy showers of snow and snow-hail throughout the day.

The depth of snow at gauge measured 63 inches at 15<sup>hrs</sup>.

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March 7<sup>th</sup>

The summit was clear from 6 till 10<sup>hrs</sup>. The sky was almost overcast and fog was passing over the hill-top.

The thermometer box was changed after 7<sup>hrs</sup> and Dry 535541 Wet 535542 put out (Height above ground not altered).

---



1903

March 8<sup>th</sup>

40

The summit was clear till 3 hrs, but fog enveloped the hill-top the rest of the day. In the evening snow was falling and from 19<sup>hrs</sup> till midn. the rainfall values are interpolated owing to the heavy snow-drifting.

Lunar coronae noted at 1 and 2 hours.  
The thermometers were changed after 15<sup>hrs</sup>.  
Dry 1392449, & wet 1392450 were put out.

March 9<sup>th</sup>

Heavy snow fell till 12 hrs.  
Strong squally south-westerly winds blew till nine hours, moderating thereafter.

Barometer pumping till 8 hrs.  
The rainfall value at 1<sup>hr</sup> is an interpolation.

March 10<sup>th</sup>

Heavy showers of snow.  
The thermometers were changed at 12<sup>hr</sup> 15<sup>m</sup>.  
Dry 535541 Wet 535542 put out, Height above snow not altered.

The depth of snow at gauge is 69 inches.



1903

March 11<sup>th</sup>

41

Squally westerly winds all day.  
Heavy showers of snow till 20 Hrs.

The summit of the hill is one mass of mounds and furrows, and hour after hour, during the evening, showed a change in the position of the snow-wreaths. After 22 Hrs there was a trench near the thermometer box, and the snow walls on both sides of it, were about five feet high, this all disappeared before midnight.

Barometer pumping slightly all day.

March 12<sup>th</sup>

South westerly or westerly winds all day, very strong till 4 Hrs but light thereafter. Snow fell heavily in the early morning, but owing to the heavy snow-drift no measurements could be had, the gauge being always packed full of drifted snow.

The rainfall values from 1 till 5<sup>45</sup> (incl) are (with the assistance of the Fort William records) interpolated.

Barometer pumping till 4 Hrs.

---



1903

March 13<sup>th</sup>

42

Slight showers of snow at timesMarch 14<sup>th</sup>

Clear and sunny all day. The sky was for the most part cloudless, and the air dry.

After 18 Hrs. an addition was put to the thermometer ladder, and the box was raised one step.

at 2<sup>15</sup> the thermometer box was changed and dry 139244.9 put out.  
wet — 5.0

Lunar coronae noted at 1 and 2 Hrs

March 15<sup>th</sup>

Fog all day, except from 1 to 6 Hrs when sky was cloudless, but with fog rising from Glen Davis and passing over the hill top. Lunar coronae at 1 and 3 Hrs

March 16<sup>th</sup>

Very thick fog all day, and snow in the evening.

Fog-crystals were forming very rapidly all day. The wind from being South-east in the forenoon, veered to South-west in the evening, and backed again to South East at midnight.



1903

March 17<sup>th</sup>

43

A gale from the south or south-south-east was blowing till 3 hrs.

Heavy showers of snow fell throughout the day, and at 23 hrs while a heavy shower of snow-hail was falling St Elmo's fire was seen very brightly.

at 21 hrs the minimum in the Stevenson screen read shaken

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March 18<sup>th</sup>

Light North Westery winds all forenoon, backing to West and increasing and becoming very squally towards evening. Some showers of snow fell in the forenoon, and continuous heavy snow and hail from 12 hrs till mid<sup>t</sup>.

Barometer pumping heavily from 15<sup>hrs</sup> till mid<sup>t</sup>, Temperature of barometer very unsteady from 10 to 12 hrs.

The depth of snow, as measured at 15 hrs was 80 inches, being an increase of 8 inches in 24 hours, due for the most part to heavy snow-drifting

---



1903

March 19<sup>th</sup>

44

The temperature fell from  $30^{\circ}$  at 2 hrs to  $23^{\circ}$  at 9 hrs, but rose again in the afternoon.

Showers of snow fell in the early morning, and continuous snow all evening.

Squally North and North-westerly breezes all day.

Barometer pumping all day.

March 20<sup>th</sup>

Fog with occasional clear intervals about mid-day. Showers of snow in forenoon, and again in evening.

Temperature throughout the day has been very steady ( $23^{\circ}$  to  $25^{\circ}$ )

March 21<sup>st</sup>

The temperature rose above the freezing point, (for the first time this month) at 9 hrs and continued high the rest of the day. Exceptionally heavy rain fell till mid<sup>y</sup>, & the wind increased in force to a strong gale at night. At 19 hrs the rain-gauge was toppled over, and the amount for that hour interpolated.

Barometer pumping heavily all evening



1903

March 22<sup>nd</sup>

45

Temperature fell slightly in the early morning, but rose again towards mid-day ( $27^{\circ}$  to  $32^{\circ}$ ) falling again after 16<sup>hrs</sup> reaching  $24^{\circ}6$  at midnight.

Strong squally westerly winds all day. Heavy showers of sleet and snow fell. Barometer pumping slightly all day.

March 23<sup>rd</sup>

Snowing heavily all day. Thermometers changed only after 14 hrs by 535541 wet 535542 put out. Today Mr. J. Miller came up and R. McDougall went down.

March 24<sup>th</sup>

Temperature rising all day. Light NW<sup>ly</sup> winds in forenoon, backing to SE and blowing a gale after 20 hrs. Occasional breaks in the fog in afternoon. Owing to heavy snow drift no measurements of amount of snow were got at 22<sup>nd</sup>, 23<sup>rd</sup> and night, the hourly values being interpolated.

March 25<sup>th</sup>

SE<sup>ly</sup> gale blowing till 10 hrs moderating and veering to S thereafter. Very heavy showers of snow in early. From 1<sup>st</sup> till 7<sup>hrs</sup> the gauge was not in use, owing to snow drift, the amounts during

24<sup>th</sup>  
Thermometer Bot raised  
one step at 18<sup>th</sup>. Height  
above snow 50 inches



- those hours are interpolations. Temperatures high most of the day. Summit clear and air dry from 13 till 18 hrs but sky overcast; the clouds tipping hills all round.

Earth Currents between 16 + 17 hrs

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26<sup>th</sup> March

Light S<sup>E</sup> to S<sup>W</sup> winds at times squally  
Fog crystals forming all day

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March 27<sup>th</sup>

St Elmo's Fire seen at 20 hrs. At 15 hrs the Snow Post A was completely buried, but was dug up and an extra post marked on it. The depth of snow today 103 inches is the greatest since 1886.

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March 28<sup>th</sup>

Temperature rising to above the freezing point in forenoon but falling quickly again in the evening (32.3 to 21.8). Moderate to strong winds all day. S<sup>E</sup> to S<sup>W</sup> till 12 hrs + W<sup>2</sup> to NW<sup>2</sup> since and squally. Fog or mist all day with heavy showers of snow rain and icy-hail. Barometer pumping all afternoon

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1903

47

March 29<sup>th</sup>

Heavy showers of snow and hail all day  
Squally W<sup>l</sup> or NW<sup>l</sup> winds. Barometer pumping  
till 8 hrs. Earth currents between 23 hrs & midt

March 30<sup>th</sup>

Squally winds all day, W<sup>l</sup> or SW<sup>l</sup> till  
10 hrs, N<sup>l</sup> or NE<sup>l</sup> since. Fog thinning at times  
during the day and sun gleaming  
Snowing almost all day.

Frequent flashes of lightning seen  
between 2 hrs and 4 hours. Barometer <sup>pumping</sup> in  
Early morning

March 31<sup>st</sup>

Fog or mist till 18 hrs clear at times since  
Temperature has been fairly high and steady  
throughout the day. Light NE<sup>l</sup> winds and  
Calm till 17 hrs backing to SE thereafter  
Thermometer box changed and raised to  
top step of Ladder at 15h 10m by 535541  
wet 535542 put out.

Three visitors ascended the Ben today



April  
1903

48

April 1<sup>st</sup>

Summit clear and air dry at 102 hrs, but sky overcast with Cum-S; thin fog or mist during the rest of the day, with occasional showers of rain and snow. Light winds all day. S<sup>W</sup> or S<sup>W</sup> till 11 hrs and Calm or N<sup>E</sup> since.

---

April 2<sup>nd</sup>

Thin fog with short clear intervals during the day. Air dry from 12 to 16 hrs. the humidity being as low as 62 at 13 & 14 hrs. Slight showers of snow in early. Temperature decidedly lower to day 21° to 28°. Light N<sup>E</sup> winds till 14 hrs backing to S since. Thermometers changed only after 11 hrs by 1392449 & set 1392450 put out.

---

April 3<sup>rd</sup>

Temperature rising till 15 hrs to 35° fairly steady since. Mist with drizzling rain all day. Light to moderate W<sup>W</sup> or S<sup>W</sup> winds

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April 4<sup>th</sup>

Mist or fog with showers of rain snow and hail. Temperature falling all day 33.5 to 21.1.

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1903

49

April 5<sup>th</sup>

Summit clear at times in forenoon and a little sunshine recorded. Wind backed from N to SW in the evening. Temperature low in morning, but rising steadily during the day. Slight showers of snow in evening. Barometer pumping till 9 hrs

April 6<sup>th</sup>

A splendid thaw during the day, the temperature be well above the freezing point; but fell quickly again in the evening, accompanied with showers of snow. Squally W or NW winds all day.

April 7<sup>th</sup>

Squally variable winds all day, chiefly NE. Heavy showers of snow throughout the day. Barometer rising briskly. Temperature much lower today 22.4 to 27.9. Considerable snow drift all day. Barometer pumping all day.

April 8<sup>th</sup>

Summit clear at times in forenoon, sky apparently cloudy. Temperature rising during the day, being above 32° all evening. Squally N or NE winds all day. Lunar Corona seen at 21 & 22 hrs. Barometer pumping in forenoon. Bot changed after 12 hrs by 535541 & 535542 put out. Three members of the Scottish Mountaineering Club climbed the N cliff today and also visited observatory.



1903

April 9<sup>th</sup>

50

Thin fog or mist all day. Silver thaw from 22 hrs till midt.

---

April 10<sup>th</sup>

Silver thaw till 4 hrs, the clouds thereafter sinking down to about the level of summit, leaving sky almost cloudless, about same time temperature fell 3 degs and wind veered from SW to WNW, after 6 hrs the clouds below rose up again and enveloped summit during the rest of the day. Slight showers of rain & sleet after 20 hrs. Squally variable W winds in evening. Barometer pumping after 19 hrs. Glaciers seen at 6 hrs

---

April 11<sup>th</sup>

Squally variable winds chiefly N<sup>E</sup> accompanied with heavy showers of snow during the day. Summit clear after 20 hrs but sky overcast. Temperature falling all day 32 to 16. Barometer pumping throughout the day.

Three visitors today

---

April 12<sup>th</sup>

Summit clear and air slightly dry at times till 8 hrs, fog times. Temperature low and fairly steady 19.0 to 14.9. Occasional showers of snow after 9 hrs. Barometer pumping most of the day. Box changed after 4 hrs. Log 1392449 & wet 1392450 put out.

---



April 13<sup>th</sup>

51

Fog lifting of summit for a few minutes at times during the day. Slight showers of snow in afternoon and also at Sea Level. Temperature low  $14^{\circ}$  to  $20^{\circ}$ . Air very clear to E at 4 hrs

April 14<sup>th</sup>

Summit clear at times between 9 & 17 hrs but sky overcast or nearly so, the clouds tipping hills all round. Slight showers of snow in evening. Temperature still keeping very low  $20.0$  to  $13.6$ . Bot changed after 13 hrs by 535541 and wet 535542 put out.

April 15<sup>th</sup>

Summit clear from 9 hrs till 21 hrs but sky very cloudy. Air slightly dry at times. Fog on hills to N + E most of the day and frequently brushing over summit. Light N.E. winds with low temperatures all day. Heather burning on hills around. Ther bot changed after 10 hrs by 1392449 & wet 1392450 put out.

Two visitors up today

April 16<sup>th</sup>

Fog or overcast sky all day. Banks of fog hanging about hills most of the day. Thermometer Bot changed after 11 hrs. by 535541 & wet 535542 put out. A snow bunting seen at bucket stage in afternoon.



1903

52

April 17<sup>th</sup>

Fog till 6 hrs. Cloudy or overcast till 16 hrs almost cloudless since. Detached fog on hills to S in forenoon. Passing showers to NE. & SE at 12 + 13 hrs. Atmosphere somewhat hazy during the day; probably due to heater burning. Air dry all afternoon, very dry at night, the humidity being 53. A slight shower of snow at 11 hrs but amount not measurable. Bot changed at 9 hrs by 139 mm 9 + wet 139 mm 50 put out. Thermometers again changed after 20 hrs by 535541 + wet 535542 put out, being easier to read, The brass fastenings on the former set of thermometers interfering with the readings at low temperatures.

Two visitors up today

April 18<sup>th</sup>

Sky cloudless till 3 hrs, thereafter cloudy or overcast with Cir-S and Cum-S till 7 hrs, fog during the rest of the day. Air very dry in early morning, the lowest humidity being 46 at 1 hr. Temp rising steadily during the day 15.2 to 25.1. At 5 hrs a peculiar dark blue haze seen at horizon to SW, becoming lighter in colour towards SE + NW. The fog in afternoon was quite white being identical with the snow, and the fog crystal deposit being hard & flaky. The winds during the day have been N + NW + light



1903

53

April 19<sup>th</sup>

Summit clear at 6 hrs, but fog below all round to about 4000 ft. Sky cloudy or overcast all day. At 18 hrs, the sky being ~~fully~~ well covered with Cir-S. a Solar Halo with mock suns were seen. Air very dry & clear, the Outer Hebrides being seen at 16+17 hrs. Wind backing in afternoon from N to SW.

Six visitors today

---

April 20<sup>th</sup>

Summit clear but sky cloudy or overcast till 7 hrs, fog since. Low lying fog in valleys in early morning. Calm or light variable air all day.

---

April 21<sup>st</sup>

Clear and air dry till 6 hrs; fog off and on since. Banks of fog hanging about hills all day. Two snow buntings seen on observatory roof in afternoon. Three visitors and guide up today.

---

April 22<sup>nd</sup>

Calm or light N<sup>2</sup> or NE<sup>2</sup> air till 16 hrs, wind backing to S since. Fog on hills high up and passing over summit frequently during the day. Passing showers to N+E in forenoon and a slight shower of snow on summit at 12 hrs.

---



1903

54

April 23<sup>rd</sup>

Clear but cloudy or overcast weather all day. Haze all round in afternoon. Slight snow falling in afternoon but nothing measurable except at 17 hrs. Temperature decidedly higher today the max being  $27.9$  at 15 hrs. Air slightly dry most of the day. Between 4 & 8 hrs ascending currents in Glen Nevis and the fog passing over Summit at times. Two visitors up today also two climbers seen on Castle Ridge.

April 24<sup>th</sup>

Sky cloudless till 10 hrs, slightly cloudy with Cir + Cir-S till 18 hrs, then cloudless again, but at 23 hrs, loose fog was passing overhead and at midt fog had enveloped ~~midt~~ Summit. Air Sat at midt the lowest humidity being 56 at 14 hrs. Thick haze around all day. Light N<sup>2</sup> air or Calm till 10 hrs backing to SW. since and light in force. Heather burning in every direction today. Snow burning seen on Tower at 17 hrs.



1903

55

April 25<sup>th</sup>

Fog or overcast sky till 9 hrs. somewhat cloudy till 19 hrs with Ci-C & Ci-S, the Ci-C apparently moving from N, fog but clearing at times since. Air dry from 11 hrs till 19 hrs. Haze around all day. Light S<sup>2</sup> or S<sup>2</sup>E winds till 9 hrs backing to SE since. Snow hunting seen on bucket stage in afternoon.

April 26<sup>th</sup>

Sky cloudless and air slightly dry till 5 hrs fog off and on since. Moderate S<sup>2</sup>E winds all day. Thick haze around but clearer in afternoon. R. McConagall with party of friends up today.

April 27<sup>th</sup>

Slight showers of snow in afternoon. Feathering fog crystals forming all day.

April 28<sup>th</sup>

Glazed frost till 4 hrs. Fog with occasional sunny intervals during the day. Fog crystals (brown) forming all day. At 20 hrs and midn the crystals were icy and needle pointed. Mist being observed at those hours.

Today 2 visitors (a Lady & Gentleman) came up the cliff a little to the N of the NE buttress. This is the first lady visitor of the year.



1903

56

April 29<sup>th</sup>

Temperature steady between 31+32° all day. Slight showers of sleet and snow after 22 hrs. Ice sharp pointed crystals with minute dark specks forming on all exposed surfaces in early morning  
a visitor up today

---

April 30<sup>th</sup>

Short clear intervals in afternoon but sky overcast or almost so. Slight showers of snow till 10 hrs. Strong earth currents in afternoon  
Five visitors up today.

---

34 Visitors have ascended the Ben  
during the month of April

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1903

57

May 1<sup>st</sup>

Sky almost cloudless from 2 hrs till 6 hrs  
 Air slightly dry at 5+6 hrs. Fog on hills to E  
 & S and at 6 hrs spreading round to N  
 Mist on again at 7 hrs. Slight showers of  
 rain and sleet after 14 hrs.

One Visitor up today

---

May 2<sup>nd</sup>

Icy crystals forming between 3+8 hrs  
 and again after 20 hrs, very rough and jagged

---

May 3<sup>rd</sup>

Clear at 5+6 hrs but sky cloudy with Cir-C  
 and Cir-S, the former moving slowly from SSW  
 Haze and fog on hills below, mist during the  
 rest of the day, with showers of snow and sleet  
 after 10 hrs. Temperature steady  $32^{\circ}6$  to  $30^{\circ}0$ .  
 Light to moderate SE or ESE<sup>1/2</sup> winds all day

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May 4<sup>th</sup>

ESE<sup>1/2</sup> gale till 10 hrs moderating and wind  
 backing to NE after 14 hrs somewhat squally  
 since. Mist or fog all day with showers of  
 drizzle and sleet till 5 hrs and snow after  
 5:21 hrs.

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May 5<sup>th</sup>

Temp falling in the evening  $28^{\circ}$  at 4:30. Slight showers of snow sleet and drizzle till 10 hrs fair during the rest of the day. Wind very variable all day but chiefly NE-<sup>E</sup>

May 6<sup>th</sup>

Temperature very low today ( $28^{\circ}$  to  $24^{\circ}$ ). Slight showers of snow in forenoon. Summit clear from 18 hrs till 21 hrs, but sky cloudy or overcast. Fog on hills all round. The fog on summit during the day was thin, the outline of the hill being seen almost all day. Bot changed after 20 hrs. by 1392m and 1392m 50 feet out

May 7<sup>th</sup>

Fog or overcast sky all day. Fog on hills most of the day and passing at times over hill tops. Air very clean to W in afternoon. The outer Hebrides looming up in distance. Temperature low in early morning  $22.7$  at 5 hrs but rising and reaching the freezing point at 10 hrs, falling unsteadily thereafter. Slight passing showers of snow during the day. Sunset tonight at 20h 17 min over middle of Cuillin range. No cloud at horizon in that direction, and no flash seen.



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May 8<sup>th</sup>

Summit clear at times during the day but sky overcast or nearly so with Cir.-C. detached lumps of fog hanging about hills all day. Calm or light S.E. & winds  
Very hazy in afternoon

---

May 9<sup>th</sup>

Thin fog or clouds sky all day. Fog on hills around all day. But in the evening it rose up and formed banks all round summit. Calm or light variable winds chiefly N.E. Earth Current at 1<sup>st</sup> 46<sup>th</sup>

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May 10<sup>th</sup>

Fog or overcast sky till 22 hrs. almost cloudless since. Great banks of fog around all day, but breaking up and clearing away in the evening. Slight showers of snow in forenoon. Temperature low and falling all day 16.9 at Mt. Airy till 5 hrs and again at 16 hrs.

Two visitors up today

---



1903

60

May 11<sup>th</sup>

Temperature very low in early morning being 15.7 at 3 & 4 hrs, but rising during the day. Sky cloudy till 14 hrs. fog since. Slight showers of snow in afternoon. Passing showers to N. and NW at 14 hrs. Lunar coronae seen at 1 & 2 hrs. Bot changed after 5 hrs by 535541 + wet 535542 put out.

One Visitor up today

May 12<sup>th</sup>

Summit clear most of the day, but sky cloudy or overcast. Fog with slight showers of snow since 18 hrs. Light NE<sup>2</sup> or NE<sup>2</sup> winds till 17<sup>th</sup> backing to SW since. Thermometer bot changed after 4 hrs by 139m49 + wet 139m50 put out.

Two Visitors up today

May 13<sup>th</sup>

Fog or mist with continuous snow sleet and rain. SW winds all day squally in afternoon.

May 14<sup>th</sup>

Variable squally W winds all day with heavy showers of snow.



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May 15<sup>th</sup>

Snowing heavily almost all day. Summit cleared for a few minutes at 17 hrs but sky apparently very cloudy. Temperature steady between  $27^{\circ}$  &  $29^{\circ}$  all day.

May 16<sup>th</sup>

Snowing continuously all day. Light Variable W<sup>2</sup> winds till 7 hrs backing to SE since St Elmo's Fire seen at 1 hr.

May 17<sup>th</sup>

Summit clear from 10 till 14 hrs. Sky Cloudy a great deal of fog hanging about hills around. Air slightly dry. Passing showers to NW at 13 hrs. Slight showers of snow till 3 hrs and again from 15 till 18 hrs. N<sup>2</sup> or NE<sup>2</sup> winds. Squally in early morning. Barometer pumping till 8 hrs. Thermometer bot changed after 10 hrs. Dry 535541 & wet 535542 put out. The depth of snow has increased a good deal during the last 2 or 3 days. Today it had reached 125 inches. This is the greatest depth this year on Summit and the Maximum since 1894. Measured at Post A



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May 18<sup>th</sup>

The fog on Summit sunk below after 11 hrs, but soon after broke up and disappeared altogether. Sky cloudy in afternoon but cloudless after 21 hrs. Air dry after 12 hrs. and very clear, the Outer Hebrides being distinctly seen all the afternoon. Temperature low in early morning but rose during the day to 35.2 at 17 hrs. Calm or light variable air all day chiefly S<sup>2</sup>. Thermometer bot changed after 7 hrs. Dry 1392449 and wet 1392449 put out. Height above snow 47 inches

---

May 19<sup>th</sup>

Summit clear all day except from 7 till 10 hrs when there was fog rising in Glen-nevis and enveloping hill tops at intervals. The sky during the day was cloudy with Cum. but up till 6 hrs and again after 18 hrs it was cloudless. Air dry most of the day, the lowest humidity being 69 at 23 hrs. Haze in valleys all day. Today W<sup>m</sup> Bee came up and Alex Lindsay went down, also two lady visitors up today

---



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63

May 20<sup>th</sup>

Stay cloudy with Cir-C and Cir-S moving slowly from SW. Till 5 hrs. Fog or mist since with slight showers of sleet & drizzling rain. Pretty thick haze all round in early morning. Low lying fog to NE at 4 hrs and at 5 hrs it had spread round to N. Temp rising tonight 34° 5' at Mt.

May 21<sup>st</sup>

Mist all day with heavy rain till 10 hrs fair during the rest of the day. Clearing overhead at Mt. Squally W or SW winds till 18 hrs backing to SSE and increasing in force since. Temperatures high being well above the freezing point all day.

May 22<sup>nd</sup>

Summit clear at times in forenoon but at 2 hrs the sky appeared to be cloudless SSE<sup>g</sup> gale till 4 hrs but moderating in force and veering to N after 20 hrs. Barometer and temperature very unsteady during the day but after 19 hrs the former rose quickly and the latter fell quickly from 32° 5' to 29° 0' at 20 hrs, remaining steady during the rest of the evening. Slight showers of sleet and snow fell between 15 & 21 hrs



May 23<sup>rd</sup>

Summit clear for a few hours in afternoon and air slightly dry. Sky cloudy or overcast and thick fog round about. Slight showers of snow in afternoon.

May 24<sup>th</sup>

Temperature remarkably high, although low in morning it rose quickly during the day to  $41^{\circ}3'$  at 14 hrs that being the highest observed reading this year, the air also has been very dry at times, the lowest humidity being 44 at Mt. Sky cloudy most of the day with Ci-C chiefly, and moving gradually from the SW. At 4 hrs some hard packed Ci-S above horizon to NE and E. Haze around all day becoming thicker in afternoon.

May 25<sup>th</sup>

Cloudy or overcast sky till 13 hrs, very fine and sky cloudless since. Thick haze high up all round. Temp high range  $38^{\circ}$  to  $47^{\circ}3'$

May 26<sup>th</sup>

Although hazy, this has been the finest day experienced this year. Barometer high and temperature exceptionally so for May, range  $44^{\circ}$  to  $56^{\circ}$ .  
Six visitors up today.



May 27<sup>th</sup>

Sky has been cloudy most of the day but very warm. Temperature high range  $45^{\circ}$  to  $56^{\circ}$ . Haze high up all round thicker in forenoon. Light variable with a Calm chiefly NE in forenoon and SE in afternoon. Splendid fire glow colours in morning. Thermometer Box lowered one step on ladder at 0<sup>h</sup> 12<sup>m</sup>. Height above snow 40 inches.

---

May 28<sup>th</sup>

Sky cloudy during the day with Cirrus chiefly but becoming overcast towards the evening. Temperature still high although somewhat lower than the past two days. Haze clearing away in early morning, and atmosphere pretty clear during day. Today eight Tourists visited the Observatory.

---

May 29<sup>th</sup>

Sky somewhat cloudy all day. Fog in valleys to N and NE in early morning and again forming to N after 19 hrs. Temperature although still high has on the whole fallen a good deal in comparison to the last four or five days. range  $40^{\circ}$  to  $47^{\circ}$ .



- At 2 hrs there is a considerable difference between dry & wet Bulbs =  $10^{\circ}$ . The reading is quite correct as particular notice was taken of the great difference at time of observing. Today Anemometer was cleaned and afterwards rigged up, but will let it run a day or ~~two~~ before observations are begun.

May 30<sup>th</sup>

Fog in valleys to N & NE in early morning but dispersing after 9 hrs. Sky almost overcast all day. Fog on hills in afternoon and at times passing over Summit, but finally settling on hilltop after 21 hrs. Occasional slight showers of rain in afternoon. Wragge's Hut came in sight today. Three visitors ascended the Ben today

May 31<sup>st</sup>

The mist sunk below Summit after 21 hrs leaving sky almost cloudless since. Light SE to SW with all day. Thermometer Bar lowered on steps on ladder at  $0^{\circ} 10^{\circ}$ . Height of Bulbs above snow 39 inches. At midt observations with H.C. anemometer were started.

Five visitors up today.

Thirty visitors have ascended the Ben during May



1903

67

June 1<sup>st</sup>

Summit clear and air dry till 6 hrs  
Mist with slight showers of drizzle till 20 hrs. Summit  
Clear at times since. Temperature falling all day 40° to 28°  
Six Visitors up today

---

June 2<sup>nd</sup>

Fog or mist with occasional very slight  
showers of snow and drizzle till 11 hrs. fog  
off and since. Temperature low all day  
Two visitors ascended the Ben today

---

June 3<sup>rd</sup>

Sky almost cloudless till 10 hrs, cloudy  
till 20 hrs, mist since. Day hazy all round  
but clearing away in afternoon. Ascending  
currents in Glen Nevis and in N cliff at  
17+18 hrs. Air pretty dry in forenoon the  
lowest humidity being 44 at 8+11 hrs  
The Hotel roof buckled in a few days  
ago, due to weight of snow on roof  
Six visitors up today

---



1903

68

June 4<sup>th</sup>

Air very dry and clear during the day  
the lowest humidity 37 at 8 hrs. Mist till 6 hrs  
and again after 19 hrs with heavy rain—  
but fog in valleys and on hills all day  
Ascending currents in Glen Nevis and in N  
Cliff at 18 hrs. Temperature high all day 51° at 14 hrs  
Thirteen visitors ascended the Ben today

June 5<sup>th</sup>

Mist with drizzling rain till 13 hrs;  
Summit clear since but sky cloudy. Fog  
in valleys and on hills all afternoon.  
Two visitors up today.

June 6<sup>th</sup>

Sky cloudless down to horizon all day.  
Fog in valleys chiefly to W till 10 hrs. No fog since  
Air very dry in morning the lowest humidity 31  
at 1 & 5 hrs... Eighteen visitors up today

June 7<sup>th</sup>

A splendid day; the temperature has  
been exceptionally high 58° at 12 & 14 hrs. Sky  
slightly cloudy most of the day. Fog in valleys  
in early morning but disappearing after 7 hrs  
Haze during forenoon but clearing away in afternoon  
Ten visitors up today



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69

June 8<sup>th</sup>

Very fine day. In the forenoon there were no lower clouds, but fog lay in the valleys, the fog dispersed by 10 a.m.; in the afternoon the clouds were chiefly lower. The Anemometer readings at 21 hrs. is probably too small, as the flexible rod had become detached from the meter during the hour; it was refixed at the hour.

Today Mr Lindsay came up, and Mr Miller went down, first horse up to-day.  
6 visitors up to-day.

June 9<sup>th</sup>

Fine day, air very dry from 6 to 9 a.m.  
Fog in valley in morning.

As the Anemometer readings were not satisfactory, they were not entered on the daily sheet. 13 visitors up to-day.

June 10<sup>th</sup>

Temperature lower to-day, sky overcast most of the day, the clouds being very low and occasionally enveloping the summit.



1903

June 10<sup>th</sup> cont

70

At 11 pm the sky became cloudless, the fog having fallen into the valleys.

Visitors up to-day, the Summit Hotel was also opened to-day.

---

June 11<sup>th</sup>

Very fine day, being practically cloudless, fog lying in the valleys in the morning, but dispersing towards mid-day, in the evening fog was forming on the hills at New horizon.

---

~~12<sup>th</sup>~~  
June 12<sup>th</sup>

Fine during the day though cloudy, fog lying in the valleys all forenoon from 20 hrs onwards the summit was in fog. The temperature was somewhat lower to-day.

---

June 13<sup>th</sup>

Very cold weather, the temperature being below the freezing point all day. Fog with



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June 13<sup>th</sup> cont.

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clear intervals. Showers of snow and hail during the day.

June 14<sup>th</sup>

Fog and cold in the morning, but at 7 hrs the sky cleared, and during the day the temperature rose somewhat.

The thermometers were changed at 7 hrs, 535541 and 535542 being put out, they were again changed at 17 hrs, 1392449 and 1392450 being put out.

June 15<sup>th</sup>

Fine though cloudy weather, with fog lying in the valleys most of the day, temperature higher. The winds were NE by E or N by E and increased in force in the evening. As the maximum in the Stevenson screen had been shaken, the lowest hourly reading was taken as minimum.

June 16<sup>th</sup>

Overcast or very cloudy weather, with fog below all day, slight showers of rain in the afternoon. The winds were N by E or NE by E and



1903

June 16<sup>th</sup> cont.

were fairly strong in the morning, but light 72  
in the evening. The minimum in the screen was  
shaken.

---

June 17<sup>th</sup>

Cloudy weather in the morning with fog  
below all round, at 10 hrs the fog rose and  
~~for~~ during the remainder of the day, the  
summit was in fog or mist.

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June 18<sup>th</sup>

Fog or overcast all day, with slight  
showers of snow at times. Temperature  
lower, especially in the morning.

---

June 19<sup>th</sup>

Fog in early morning, but summit clear  
and air dry from 7 hrs onwards, with fog  
below. Temperature low.

---

June 20<sup>th</sup>

Fine and warmer weather; barometer  
rising during the day, sky cloudless in the  
morning. There was no fog below all day



1903

June 20<sup>th</sup> cont

73

except at 19 hrs when loose fog was rising from the North cliff and passing over the summit

---

June 21<sup>st</sup>

Fine and sunny, though very hazy weather all day, barometer rising on the whole throughout the day. light NW  $\frac{1}{2}$  breezes or Calm.

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June 22<sup>nd</sup>

Fine though very cloudy and hazy weather, with showers of rain late in the evening, barometer rising till mid-day, falling thereafter, winds NW  $\frac{1}{2}$  in the morning, backing to SE and increasing in force in the evening. At 14 hrs two birds thought to be eagles were seen to the NE from the summit

---

June 23<sup>rd</sup>

Mist with showers of drizzling rain



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74

June 23<sup>rd</sup>

all day till 12 hrs when the sky cleared and the air became dry. S by or SE by breezes all day.

---

June 24<sup>th</sup>

Sky almost overcast all day till 13 hrs, mist with almost continuous rain from then onwards. SE by breezes all day, moderate during the day, and increasing in force in the evening. The lowest hourly reading was used for the newspaper report, as the minimum in the box had been shaken.

---

June 25<sup>th</sup>

Overcast or mist all day with drizzling rain in the morning and showers in the afternoon. The temperature rose fairly high in the afternoon, SE by breezes all day. ~~From~~ From 2 till 8 pm, earth currents were noted, and distant thunder to be heard.

The minimum in box was shaken.

---



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June 26<sup>th</sup>

75

Mist all day, with continuous rain from noon onwards. Strong SE & breezes. At 21 hrs it was found that the minimum in the box had been shaken. At 5 hrs the thermometer box was lowered on the ladder. <sup>To-day it was found that the snow has</sup> been measured a foot too little for <sup>some time.</sup>

June 27<sup>th</sup>

Mist all day with almost continuous rain except for a fair spell about mid-day. SW & breezes in morning, backing to SE & in the evening. The stones at the foot of the thermometer ladder are now slowing up.

June 28<sup>th</sup>

Mist all day, with continuous rain till 13 hrs, and again from 22 hrs till mid-night. The winds were SE in the morning, veering to north during the day, and backing again to SW in the evening. Temperature fairly high in the morning, but falling somewhat during the day.

June 29<sup>th</sup>

Mist all day with continuous rain. Temperature somewhat lower. Earth currents noted, and thunder heard from 2 am till 7:20 am. Lightning also seen at 6:58 am and 7:6 am.



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June 30<sup>th</sup>

76

Mist all day, with continuous rain from 10 am onwards.

---

July 1<sup>st</sup>

Mist all day with almost continuous rain, moderate SW or NW breezes. At noon the thermometers were transferred from the winter into the summer box.

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July 2<sup>nd</sup>

Sky overcast and air dry from 10 am till 5 pm, mist during the rest of the day with heavy rain in the evening. Barometer falling during the day, winds NW in the morning, and backing to SE during the day. Thunder heard and lightning seen at 10:27 pm and 10:35 pm, earth currents also noted.

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July 3<sup>rd</sup>

Mist all day with continuous heavy rain. Squally moderate breezes chiefly westerly.

---



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77

July 4<sup>th</sup>

Mist all day with rain falling in the morning till 7 hrs, and again in the evening after 10 hrs. \_\_\_\_\_

July 5<sup>th</sup>

Mist all day with continuous rain, barometer falling during the day. \_\_\_\_\_

July 6<sup>th</sup>

The temperature throughout the day was low and steady, and heavy showers of snow, sleet, hail and rain fell.

During the forenoon three inches of freshly fallen snow lay over the hill-top.

Today Messrs W. G. McConnachie and R. N. MacDougall arrived at the observatory and Messrs W<sup>m</sup> Bee and A. Lindsay went down to Fort William.

July 7<sup>th</sup>

Fine sunny weather all day. The air was saturated till 8 Hrs and dry thereafter. Lowest humidity 43 per cent at midnight. \_\_\_\_\_



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July 8<sup>th</sup>

78

Summit clear and air dry till two hours, mist and continuous drizzling rain thereafter.

Temperature rose steadily till 12<sup>hrs</sup> (39° to 50°) and continued high the rest of the day.

---

July 9<sup>th</sup>

The temperature continued high and steady all day. Drizzling rain fell in early morning and again from 18<sup>hrs</sup> till midnight.

---

July 10<sup>th</sup>

Mist all day, and rain till 18<sup>hrs</sup>.  
Temperature falling slowly.

---

July 11<sup>th</sup>

The hill top was clear between 4 and 9 hrs. and the air was slightly dry, but during the rest of the day the summit was enveloped in mist.

Temperature was low and steady all day.

---



1903 July 12<sup>th</sup>

79

The temperature continued low all day ( $32^{\circ}$  to  $36^{\circ}$ ), and showers of snow, sleet and rain fell.

July 13<sup>th</sup>

Fog "off and on" all day. Some slight showers of sleet and hail fell between 10 and 14 hrs, and while the summit was clear the air was slightly dry.

Today a joiner from Fort William arrived and started the repairs at the observatory.

July 14<sup>th</sup>

The summit was clear and the air slightly dry till 20<sup>hrs</sup>, fog thereafter till midnight. The air during the day was very clear, and for nine hours the maximum visibility was observed.

The spiral cord of the Robinson anemometer which had been at Fort William for repairs was returned today, and the anemometer was set going after 14<sup>hrs</sup>.



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July 15<sup>th</sup>

80

Mist all day, with slight showers of rain in the evening.

Moderate southeasterly breeze till midt, the mean velocity for the day, as recorded by the Robinson anemometer, was 32 miles per hour.

---

July 16<sup>th</sup>

The wind continued strong till the afternoon, but moderated thereafter.

After 22 hrs. the anemometer was again found to be out of gear, and had to be dismounted, and sent down hill to be repaired.

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July 17<sup>th</sup>

A fine mild day with slight showers of rain in the early morning. The hill top was clear for the most part during the evening, but fog passing kept the air saturated.

The strong winds of the past few days, along with the high temperature and showers of rain, has made a vast difference in the snow-wreaths about the hill top, only a slight wreath near the first gorge being left.

---



1903

July 18<sup>th</sup>

81

Fine warm and sunny throughout the day. During the forenoon the sky was partly covered with cumulus, and cirrus, but from 12 Hrs. onwards it was nearly cloudless. The air during the day was very clear and dry.

A thin haze lay in the valleys most of the evening.

A Solar Halo was noted at 14 Hrs.

July 19<sup>th</sup>

Another fine day with fog lying over the hills to North and East in the forenoon. At 22 Hrs detached fog lay over all the surrounding hills, and the haze in the valleys was very thick.

July 20<sup>th</sup>

Fog passing over summit till 3 Hrs, then the Ben became enveloped, but cleared again after 10 Hrs, and from 18 Hrs till midn the sky was absolutely cloudless. The haze was very thick all round during the evening.

July 21<sup>st</sup>

Clear till 6 Hrs, and again after 18 Hrs but for the rest of the day the Ben was enveloped in mist.

The temperature of the Barometer was very unsteady from 6 till 8 Hrs



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July 22<sup>nd</sup>

82

Fog off and on all day.

Some heavy thunder showers fell in the forenoon, and earth currents were noted between 7 and 9 Hrs.

---

July 23<sup>rd</sup>

Some very showers of rain fell in the early morning, and at 4 Hrs St Elmo's fire (very strong) was noted.

The hill became clear of fog in the afternoon, and the air was slightly dry. Anemometer set going after 19 Hrs.

This evening McKellox's joiner, after having stripped all the doors, windows etc, and getting the place ready for the painters, left the observatory taking all his tools with him.

---

July 24<sup>th</sup>

A fine sunny day, the temperature ranged from  $37^{\circ}$  to  $48^{\circ}$  and the air was slightly dry. At midnight the summit became enveloped in mist.

---

July 25<sup>th</sup>

The hill top was clear and the sky somewhat cloudy till 17 Hrs, thereafter mist came on & heavy showers of rain



1903

July 25<sup>th</sup> Contd.

83

fell. Moderate south easterly winds blew throughout the day, increasing to gale force at 23 hrs & midt.

After 18 hrs the spiral cord of the Robinson anemometer again broke, and no readings could be taken for the rest of the day.  
Bar. pumping from 18<sup>hrs</sup> till midt.

July 26<sup>th</sup>

The wind gradually died down after 2 hrs, and after 9 hrs the summit became free from mist, and at night the sky was almost cloudless.

Barometer pumping till 4 hrs.

July 27<sup>th</sup>

Clear and air slightly dry all day. Throughout the day haze lay in the valleys, and banks of fog hung about the surrounding hills.

Till 8 hrs fog lay over Loch Lochy and Loch Laggan.

July 28<sup>th</sup>

Fog "off & on" all day, and air slightly dry at times.  
23 hrs observation 3 mins. late.



1903 July 29<sup>th</sup>

Fog or mist with occasional sunny breaks in afternoon.

---

July 30<sup>th</sup>

The anemometer having been repaired was set going after 15 Hrs.

Today Mr. L. McDonald <sup>(Painter)</sup> arrived at the observatory and started work at the office.

---

July 31<sup>st</sup>

Glories noted at 20 Hrs, and a Lunar halo at 22 Hrs.

---

August 1<sup>st</sup>

The 22 hours observation was started at 22<sup>Hrs</sup> - <sup>mins</sup> (No correction applied to readings.)

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August 2<sup>nd</sup>

Summit clearing at times in afternoon. Showers of rain in the early morning and again at night.

---



1903

August 3<sup>rd</sup>

85

Mist and drizzling rain most of the day. St Elmo's fire at 2 Hrs.

---

August 4<sup>th</sup>

Mist and rain all day

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August 6<sup>th</sup>

Heavy showers of rain and hail during the day.

Today Mr. A. J. Ross arrived at the observatory to assist as observer, and Mrs W. E. McConnachie left

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August 7<sup>th</sup>

Today Mr. J. Robertson, (Cook) returned from holiday, and Mr. M. M. Philip left.

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August 9<sup>th</sup>

Heavy drizzling rain all day

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August 11<sup>th</sup>

Showers of snow and sleet fell in afternoon.

Lunar Coronae noted at 143 Hrs.

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1903

August 12<sup>th</sup>

86

Clear and sky somewhat clouded in afternoon. Fog in valleys all round. Glories noted at 6 Hrs.

August 13<sup>th</sup>

Shower of snow and sleet fell in the forenoon, and the hill-top was clear for a few hours in the afternoon.

The 5 Hrs observation was started at 5<sup>h</sup> 5<sup>m</sup> (no correction applied)

August 14<sup>th</sup>

Strong south easterly wind blew throughout the day, moderating slightly towards evening.

After 11 Hrs. the spiral cord of the Robinson anemometer broke, & readings were stopped.

August 15<sup>th</sup>

Thunder and lightning almost continuous from 12<sup>h</sup> till 1<sup>h</sup> P.M. and during this time St Elmo's fire was very strong. St Elmo's fire seen at 2<sup>h</sup>

Telephonic communication was interrupted from 12<sup>h</sup> till 20<sup>h</sup> after which hour a new <sup>fuse</sup> ~~cord~~ was put into the protector & communication restored.



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August 16<sup>th</sup>

87

Mist all day with slight drizzling rain in early morning, and showers of sleet and snow from 16<sup>hrs</sup> till mid<sup>t</sup>.

August 17<sup>th</sup>

After 18<sup>hrs</sup> the hill-top cleared and the air became slightly dry, and very clear, several of the West coast lights being visible all evening.

August 18<sup>th</sup>

A very fine though somewhat cloudy day. The air was dry and the wind almost calm all day. Mist came on after 22<sup>hrs</sup> and sleet began to fall. A brilliant display of St Elmo's fire was noted at midnight.

Noar frost on roof at 2 Hrs.

August 19<sup>th</sup>

Sleet and snow till 6 Hrs. and again from 20 Hrs. till mid<sup>t</sup>.

St Elmo's fire at 4 Hrs. and 22 Hrs.  
Lightning seen at 23<sup>hrs</sup> 20 mins

August 20<sup>th</sup>

Heavy showers of snow in early morning and again after 19 Hrs.

St Elmo's fire at 1 and 19 Hrs. and



Aug<sup>t</sup> 20 cont<sup>d</sup>

88

and thunder and lightning from 1 till 3 Hrs.

Today the telegraph linesman came up from Fort William to sort the telephone which had broken down. Communication was restored in the evening.

---

August 21<sup>st</sup>

Occasional showers of sleet and hail during the day.

About three inches of snow lay on the ground this morning.  
St Elmo's fire seen at midnight.

---

August 22<sup>nd</sup>

Slight showers of sleet at times

August 23<sup>rd</sup>

A fine day, but with fog hanging about hills all round. A Rainbow was seen at 17 and 18 Hrs.

Today Mr Constable (Kew observator)  
visited the Observatory.

---



1903

August 24<sup>th</sup>

89

Fine though cloudy during the day. There was a thick haze in the valleys and fog over the surrounding hills.

Thunder was heard between 16 & 17 Hrs.

---

August 25<sup>th</sup>

The sky was absolutely cloudless till 8 Hrs, but haze and fog were in valleys, the fog rose and was passing over the ben in the afternoons and finally enveloped the summit after 16 Hrs.

Today Mr Wedderburn (Hut 1902) visited the observatory. Glaciers seen at 6 Hrs.

---

August 26<sup>th</sup>

Rain came on at 2 Hrs and continued the rest of the day.

---

August 27<sup>th</sup>

Strong squally west or North-west wind and very heavy showers of rain all day.

Barometer pumping heavily all day.

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August 28<sup>th</sup>

90

Heavy showers of rain all day  
Strong squally Northwesterly winds  
continued till 16<sup>hrs</sup> moderating  
thereafter.

Barometer pumping till 17<sup>hrs</sup>

August 29<sup>th</sup>

Mist all day with showers of  
sleet and drizzling rain till noon.

August 30<sup>th</sup>

Mist all day with sleet and  
heavy rain from 8 12 hrs till mid<sup>t</sup>.  
Light Northerly winds in early morning  
~~barking~~ backing to South. East in forenoon  
and increasing to gale velocity in the  
afternoon, veering again to West at  
night and moderating in force.  
Barometer pumping from 12<sup>hrs</sup> till mid<sup>t</sup>.

August 31<sup>st</sup>

Mist till 14 hrs, and drizzle, sleet,  
and hail till 9 hrs.

Bum mit clear and air slightly dry  
for a few hours in evening.

Barometer pumping slightly till 12 hrs



1903

September 1<sup>st</sup>

91

Rain and sleet fell in the forenoon and a south-easterly wind reaching a velocity of 80 miles per hour. Sleet till 9 hrs.

Barometer pumping most of the day

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September 2<sup>nd</sup>

Fog "off and on" in forenoon heavy rain in evening and snow at night. St. Elmo's fire seen at mid.

The 14<sup>th</sup> obs. observation was started 5 minutes late.

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September 3<sup>rd</sup>

Slight showers of rain & hail during the day.

Lunar corona at 22 hrs.

Today Mr. J. H. Buchanan arrived to act as observer, and Mr. A. Gross left.

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September 4<sup>th</sup>

Rain till noon, and again after 22 hrs.

Wind increasing to gale force after 20 hrs.

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1903

September 5<sup>th</sup>

92

Wind moderated after 5 P.M. &  
rain continued till 13 P.M.

Bar. pumping till 6 P.M.

September 6<sup>th</sup>

Heavy showers of hail, sleet, &  
snow.

Lunar corona at 23 P.M.

September 7<sup>th</sup>

Showers of hail snow, and  
sleet throughout the day.

September 8<sup>th</sup>

Mist with rain and sleet  
all day.

September 9<sup>th</sup>

Heavy showers of snow in the  
early morning, and again in evening.  
Tonight about 4 inches of snow lies  
on the ground on summit.

September 10<sup>th</sup>

Heavy showers of snow during the day.  
St Elmo's Fire seen at 3 P.M.  
Today Mr J. Miller came up and Mr R. McPoyall  
went down.



1923

September 11<sup>th</sup>

93

Slight showers of snow during the day.  
The observation at 18 hrs was taken 5 minutes late.

September 12<sup>th</sup>

Sun gleaming at 12 hrs. Summit clear at times for a few moments in afternoon, but sky apparently very cloudy.

September 13<sup>th</sup>

Temperature low all day but falling rapidly in the evening  $24^{\circ}7$  at bedt.

Summit clear for short intervals during the day. Occasional slight showers of snow in early morning and again in afternoon.

September 14<sup>th</sup>

Sky cloudless or nearly so all day. Some fog on hills to E till 7 hrs but cleared away after that. Temperature low in early morning  $24^{\circ}3$  but rising during the day to  $35^{\circ}6$  at 13 hrs fairly steady since. On dry all day the lowest humidity being 45 at 6 hrs.

September 15<sup>th</sup>

Windy all day. Lowest humidity 38 at 21 hrs. Sky cloudless most of the day. Haze all round. A. Rankin and A. Allan Painter up today. Inspecting Jones and Paint work at Observatory.



1903

September 16<sup>th</sup>

94

Sky slightly cloudy all day with Cirro-Cum. Fog in valleys to SE in early morning, but clearing away towards noon. Haze in distance most of the day. Air very dry at times, lowest humidity 37 at 9 hrs. Upper Rankin & all air away

September 17<sup>th</sup>

Moderate to strong SSE<sup>ly</sup> winds all day. Fog on hills to E<sup>ly</sup> all morning but after 9 hrs it rose up and passed over hill top frequently till 16 hrs when it finally settled down on Summit

September 18<sup>th</sup>

Fog till 9 hrs, clear since, but sky slightly cloudy with Cirrus. Occasional slight fog passing over Summit after 19 hrs.

Moderate to strong SE to ESE winds all day

September 19<sup>th</sup>

Strong ESE<sup>ly</sup> winds at times reaching gale force. Summit clear and air dry till 3 hrs, and again after 21 hrs, but during the rest of the day

September 20<sup>th</sup>

ESE<sup>ly</sup> gale almost all day. Sky cloudless till 6 hrs, fog till 13 hrs clear again since, but fog passing at times. Small part of aurora seen at 1 & 2 hrs. Barometer pumping most of the day.



September 21<sup>st</sup>

Gale from ESE all day, average velocity 70 miles per hour. Mist or Cloudy sky till 11 hrs, cloudless since. Fog on hills to E all day and frequently passing over Summit during the day.

Observation at 17 hrs 10 minutes Cite

September 22<sup>nd</sup>

ESE<sup>g</sup> gale continued till 16 hrs moderating in force thereafter. Barometer pumping till 19 hrs Sir John Murray along with party of other three visited Observatory today.

Paintwork finished at Observatory and painter went down the hill in the evening

September 23<sup>rd</sup>

Mist all day with occasional slight showers of rain. Temperature high (40 to 46) Light to moderate SE to SSE winds all day at times reaching gale force.

September 24<sup>th</sup>

Temp + Bar high + steady, the former reaching 46°. Mist with heavy rain till 3 hrs, Summit clear and air dry since. A little det fog on hills to S+E most of the day. Light S<sup>2</sup> or SSW winds in forenoon backing to SSE since.



1903

September 25<sup>th</sup>

96

Sky cloudless till 5 hrs. Cloudy with  
Cirro-Cum till 10 hrs. thin fog or mist since.  
Haze all round below and fog over Lochail  
Canal and Lochlochy in early morning.  
Dew forming on Observatory roof at 2 + 3 hrs  
Today Mr Bee came up and Mr Buchanan  
went down

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September 26<sup>th</sup>

Thin mist till 5 hrs. Clear since and  
air dry, but sky very cloudy or overcast  
with Cir & Cir-Str moving from South.  
Haze and fog on hills all day.  
Temperature very high today  $50^{\circ}$  at 13 hrs

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September 27<sup>th</sup>

Temperature decidedly lower today but  
fairly steady  $42^{\circ}$  to  $39^{\circ}$ . Light to moderate S<sup>W</sup> or SE<sup>W</sup>  
breezes. Fog or mist with short clear intervals  
in early morning and again in afternoon  
Slight showers of rain between 8 + 12 hrs

---



1903

September 28<sup>th</sup>

97

Light to strong S<sup>W</sup> to SSE<sup>W</sup> winds reaching gale force at times in the evening. Mist with short sunny periods in the afternoon.

Today Ben Nevis record breakers were in full swing. From Post Office to observatory and back H. McKenzie 2<sup>nd</sup> 10<sup>min</sup> 8<sup>sec</sup>  $\frac{1}{5}$  sec, E. Kennedy 2<sup>nd</sup> 21<sup>min</sup> 3 $\frac{3}{5}$  sec. A third man Dobson was found unconscious on road side shortly after 15 hrs about 1000 ft below summit. Dr. Mac Arthur and party of stretcher bearers came up and took Dobson down the hill. He <sup>was</sup> still unconscious at a late hour.)

September 29<sup>th</sup>

Mist with slight showers of drizzle till 9 hrs, clear since but sky cloudy & overcast. Cir & Cir G moving from SW. Fog on hills to E all afternoon.

September 30<sup>th</sup>

Summit clear at times, but sky overcast. Mist during the rest of the day with showers of drizzling rain.



1903

98

October 1<sup>st</sup>

Mist with continuous rain all day

October 2<sup>nd</sup>

Mist with heavy showers of rain till 9 hrs. fog with clear sunny intervals thereafter fog low with Gloria seen at 12 hrs

October 3<sup>rd</sup>

Summit clear and air slightly dry till 6 hrs. mist with drizzling rain since. Temperature steady during the day but falling this evening 34° 3

October 4<sup>th</sup>

Mist with drizzling rain sleet and hail all day

October 5<sup>th</sup>

SE gale till 4 hrs veering to W and NW since and very squally. Heavy showers of rain sleet and hail. St Elmo's Fire seen at 5 hrs. Barometer pumping most of the day

October 6<sup>th</sup>

Summit clear and air dry at 23 hrs + mist but fog on hills around. Showers of drizzling rain sleet and snow during the day. Today Hotel on Summit was closed for the season



1903

October 7<sup>th</sup>

99

Sky cloudy or overcast till 15 hrs. fog with slight showers of snow since. Air dry and very clear at times in forenoon. On the hills around the snowline is about 300 ft. Light N<sup>W</sup> winds till 10 hrs variable since but chiefly S<sup>E</sup>.

October 8<sup>th</sup>

Fog with showers of snow all day  
 fog crystals forming all morning

October 9<sup>th</sup>

Fog off and on Summit all day but clearing up and almost cloudless in the evening, and air dry. Light N<sup>W</sup> winds all day. Most of the snow has thawed from off the lower hills, but on Summit there is a varying depth averaging about two inches

October 10<sup>th</sup>

Sky almost cloudless till 13 hrs somewhat cloudy with Ci + Cu S till 16 hrs. Fog thereafter. Low lying fog in valleys in early morning but clearing away during the forenoon. ascending currents to W at 13 hrs. Air dry and very clear during the day. Light N<sup>W</sup> winds in morning backing to S<sup>E</sup> + E<sup>SE</sup> and increasing to gale force tonight. Fog crystals forming all evening. Five visitors ascended Ben Nevis today



1903

October 11<sup>th</sup>

100

SE to ESE gale almost all day. Temperature low in morning but rising 35.1 at mid. Slight showers of snow in forenoon and drizzling rain in evening. Fog crystals forming rapidly in forenoon. From 5 hrs till 15 hrs fog crystals had grown 15 inches on hand rail of tower. Barometer pumping most of the day. Thermometers changed at 15<sup>h</sup> 10<sup>m</sup> by 139m49 & bet 139m45.0 put out.

October 12<sup>th</sup>

ESE  $\frac{1}{2}$  gale continued till 2 hrs moderating in force thereafter. Mist with showers of drizzling rain.

October 13<sup>th</sup>

Wind veered from SE after 3 hrs to W. and NW accompanied with rapid fall in temperature and heavy falls of snow. The summit has received a good covering of snow today being fully 4 inches deep. Strong Earth Currents on Cable between 0<sup>h</sup> 15<sup>m</sup> and 2 hrs



1903

October 14<sup>th</sup>

101

Barometer falling rapidly after 20 hrs. Light SW winds during the day backing to ESE in the evening and increasing in force to that of a moderate gale. Showers of snow till 15 hrs and again after 21 hrs.

October 15<sup>th</sup>

Barometer very low all day but rising this morning. Lowest reading 24.330 at 5 hrs. Strong squally winds all day chiefly W<sup>2</sup>. Exceptionally heavy showers of snow. From 1 hr to 16 hrs the hourly falls were between 1 and 2 tenths. The total fall for the 24 hrs being 3.0214 inches. Barometer falling all day.

St Elmos Fire seen at 1<sup>st</sup> 21<sup>st</sup> & 23<sup>rd</sup>. The depth of snow measured at 15 hrs at Post A was 9 inches. Telephone broken down. No report sent to Newspapers tonight.

October 16<sup>th</sup>

Squally NW<sup>2</sup> winds with continuous snow all day. St Elmos Fire seen at 1.2 & 4 hrs. Depth of snow increased 3 inches today, but round of observatory wreaths have formed 3 to 4 ft deep. All last night and till noon today. Tower was used as low door was blocked. This is the first



1963

102

- occasion low door has been blocked  
this winter. No weather report to newspapers  
to night Telephone still out of order

October 17<sup>th</sup>

Light N<sup>2</sup> winds with occasional slight  
Showers of snow. Mr Buchanan Telegraph  
lineman came up and put telephone  
in order. Fuses in protector were burst up  
The daily weather report of 15<sup>th</sup> & 16<sup>th</sup> were  
sent by post today to newspapers.  
one visitor up today

October 18<sup>th</sup>

Summit clear and air dry day at  
times between 6 + 16 hrs, the lowest humidity  
41 at 9 hrs. Hard packed air S in forenoon  
forming into Cum-S + Nimbus + mist  
in afternoon with rise in temperature  
winter thermometer bot put out on stand  
N<sup>2</sup> 2 at 7 hrs 10<sup>min</sup>. Thermometers by 535541  
wet 535542 and Min 1108531 A.  
Three visitors up today

October 19<sup>th</sup>

Temperature high and steady.  
Mist all day with showers of drizzling rain



October 20<sup>th</sup>

Showers of drizzle and very hail during the day. Summit clear in the evening and air slightly dry. Squally S<sup>E</sup> or S<sup>W</sup> winds

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October 21<sup>st</sup>

Mist or fog all day with occasional showers of sleet and drizzling rain.  
Two visits up today

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October 22<sup>nd</sup>

Fog or mist with showers of drizzle sleet and snow. Temperature steady between 29° & 32° all day. As the observer was going out to the 22<sup>hr</sup> observation he felt warm puffs of air on face and hands between observatory and thermometer box

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October 23<sup>rd</sup>

Temperature falling all day 30.6 to 23.1. Occasional slight showers of snow till 15 hrs. fair and summit clear at times since. Thermometer box changed at 16<sup>h</sup> 10<sup>min</sup>. Dry 139.449 and wet 139.450 and Min 1108531 A put out.

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1903

104

October 24<sup>th</sup>

Fog or mist with showers of snow  
and rain. Temperature  $26^{\circ}$  to  $36^{\circ}$   
Variable winds chiefly S<sup>W</sup> Squally  
in the evening

October 25<sup>th</sup>

Fog Squally winds chiefly S<sup>W</sup> till  
7 hrs. Temperature  $31^{\circ}$  to  $34^{\circ}$ . Occasional  
light showers of drizzle. Barometer  
rising till 7 hrs.

October 26<sup>th</sup>

Temperature steady  $34$  to  $32$ . Mist all day  
with light showers of drizzly rain.

Earth currents on Telephone between 18 + 19 hrs

October 27<sup>th</sup>

Summit clear from 10 till 17 hrs  
but almost continuous snow or fog  
passing. Heavy showers of snow till  
6 hrs and again after 20 hrs  
Gloria seen at 16 hrs



1903

105

October 28<sup>th</sup>

A splendid thaw most of the day, with heavy rain and strong ESE<sup>2</sup> winds at times blowing a gale. Temperature falling in the evening. Summit clear and air slightly dry after 20 hrs. Earth currents between 8+9 hrs

October 29<sup>th</sup>

ESE<sup>2</sup> to SE<sup>2</sup> gale moderating in force towards mid. Fog crystals (grey in colour) forming all day.

October 30<sup>th</sup>

Fog all day with heavy showers of snow till 9 hrs fair during the rest of the day. Lighter winds all day chiefly N<sup>2</sup>E

October 31<sup>st</sup>

Temperature steady all day 32° to 31° Showers of snow and sleet in forenoon. Blazed first in the evening

Strong Earth currents on Telephone all day  
11 Visitors ascended the Ben during October



November 1<sup>st</sup>

Summit clear most of the day and air dry. Sky slightly cloudy with cirrus and moving fairly quick from about W. Temperature high all day  $38^{\circ}$  at 13 hrs. Fog all round below to about 4000 ft but breaking up and clearing away towards evening. A magnificent display of the Aurora observed at 4 hrs. There were part of a second arch and with brilliant streamers shooting to the North. Glows seen at 8 hrs. Strong Earth Currents on Telephone up till 4:30. Three visitors up today.

November 2<sup>nd</sup>

Mist with drizzling rain and high Temperature

November 3<sup>rd</sup>

Occasional heavy showers of snow and sleet during the day. Temperature steady all afternoon at  $-32^{\circ}$ . St Elmo's fire heard on kitchen chimney & Tower at 16 hrs



1903

107

November 4<sup>th</sup>

Fog clearing for a few moments at times in the evening. Occasional showers of snow and sleet during the day. Bar changed at 25.10 by 5355419 - but 535542 put out. Height above snow 48 inches.

November 5<sup>th</sup>

Mist cleared off and sunk below Summit after 17 hrs. Sky pretty cloudy with Cir-S and moving slowly from about WNW. Air dry all evening. Lunar Corona seen at 18.22.9 23 hrs and a Lunar Halo (faint) at Mt. Glazed frost forming all forenoon. In the early morning the ice that was forming was very jagged resembling pin points. Barometer high and steady all day.

November 6<sup>th</sup>

Sky less than half covered with Cirrus till 18 hrs, cloudless since. Fog low down in valleys all day but dispersing in the evening except to W and N.



1903

108

Air very dry all day the lowest humidity being 35 at 15 hrs. The wet bulb readings at 18 and 19 hrs appear as if the bulb were partly dry. Slight haze in distances all day. Barometer high and steady, the temperature also has been high the maximum reading being 41.9 at 13 hrs. Lunar Halo seen at 17.6 hrs

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November 7<sup>th</sup>

Sky cloudless till 16 hrs. Fog in valleys in early morning to N + W, but gradually spreading all round in forenoon, thereafter it rose up to above the summits and passing at times over hilltop, but finally settling on summit after 16 hrs. Haze in distances all forenoon. Air very dry at times the lowest humidity 41 at 1.5 and 6 hrs. Glories seen at 15 hrs

---



1903

109

November 8<sup>th</sup>

Heavy rain between 14 hrs and 21 hrs showers of snow since. At 10 hrs it was found rangers had been blown away (probably over the cliff) Along with the remaining new gauge one of the old ones has been brought into use again.

November 9<sup>th</sup>

Squally Variable NW<sup>2</sup> winds  
Heavy showers of snow most of the day  
Earth Currents on Cable between 0.7<sup>m</sup> + 0.35<sup>m</sup>

November 10<sup>th</sup>

Heavy showers of snow till noon  
Temp rising slowly all day 35.3 at melt  
at 15 hrs depth of snow was 12 inches an  
increase of 3 inches since yesterday

November 11<sup>th</sup>

Thin mist, and at times summit clear  
during the day. Slight drizzle in early morning  
Temperature high all day 34.2 to 40.9.  
Variable SW<sup>2</sup> winds very squally in evening



1903

110

November 12<sup>th</sup>

High temperature and heavy rain in early morning. Thin fog at times in afternoon and sky apparently cloudless

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November 13<sup>th</sup>

Barometer falling all day rapidly to night. Temperature high 30° to 37°. Strong S<sup>W</sup> squalls all afternoon.

Barometer pumping all afternoon

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November 14<sup>th</sup>

Variable squally S<sup>W</sup> winds till 6 hrs light during the day but veering to N in the evening. Fog breaking for a few moments at times in forenoon and showing sky cloudy with <sup>pumping</sup> Cirrus over head. Barometer till 3 hrs.

Three visitors ascended the Ben today

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November 15<sup>th</sup>

Shows of snow most of the day fog clearing slightly over head at 19 hrs

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November 16<sup>th</sup>

Temperature low and steady  
Summit partly clear at times in the evening

November 17<sup>th</sup>

Fog or overcast sky till 17 hrs, cloudless sky since, but very thin fog passing.  
Showers of small star shaped snow in early morning. Aurora seen at 21 hrs  
Snow on hills all round and down to about 2000ft. Thermometer Bot changed at Noon by 1392449 & wet 1392450 put out  
Height of Bulbs above snow 44 inches

November 18<sup>th</sup>

Air extremely dry from 3 till 7 hrs, the lowest humidity being 16 at 6 hrs. Mist or overcast sky during the rest of the day  
Aurora seen at 1 + 2 hrs but very faint

November 19<sup>th</sup>

Silver thaw from 7 hrs till 16 hrs all exposed objects being thickly coated with ice  
Temperature falling in the evening



November 20<sup>th</sup>

Mist and fog with heavy showers of rain and snow during the day. Glazed frost at 6<sup>hrs</sup>. Earth currents on cable between 0<sup>hrs</sup> and 1<sup>hr</sup>.

November 21<sup>st</sup>

Very squally variable winds all day chiefly N.E. Heavy showers of rain sleet and snow. Summit clearing slightly at times between 13 and 15 hrs. Barometer pumping all day wildly at times. Thermometer Bot changed after 14 hrs dry 535541 and wet 535542 put out. Height above snow not altered.

November 22<sup>nd</sup>

Temperature low but rising till 8 hrs. Steady between 32° and 33° during the rest of the day. Showers of snow and rain since 2 hrs. Squally variable winds chiefly N.E. Barometer pumping all day.



November 23<sup>rd</sup>

High temperature with exceptionally heavy rainfall. The total amount being 3.829 inches, and of that amount 1.806 inches fell from 14 hrs till 18 hrs inclusive. Temperature fell rapidly after 20 hrs with showers of snow. Summit clear at 23 hrs + melt. Aurora seen at 23 hrs

November 24<sup>th</sup>

Sky cloudy or overcast till 9 hrs. fog with snow since. Temperature low and steady. Thermometer not changed at 9<sup>15</sup> by 139249 and wet 1392450 put out.

November 25<sup>th</sup>

Heavy showers of snow during the day. Temperature low and steady 24 to 18. The measurements of amount of snow at 18, 19, & 20<sup>hrs</sup> are interpolations owing to heavy snowdrift. Barometer pumping most of the day. At 15 hrs the depth of snow was 19 inches an increase of 9 inches since yesterday



November 26<sup>th</sup>

Fog or overcast sky all day. Air slightly dry at times. N<sup>2</sup> or NE<sup>2</sup> winds strong and squally till 5 hrs light during the rest of the day, but wind backing to SE after 20 hrs.

Barometer rising till 8 hrs. Thermometer for changed at 8<sup>h</sup> 10<sup>m</sup> by 535541 & wet 535542 put out. Bot raised one step height above snow 54 inches

November 27<sup>th</sup>

Fog with continuous snow all day. Feathery fog-crystals forming in early morning

November 28<sup>th</sup>

Fog breaking overhead at times but sky apparently cloudy. Showers of snow till 14 hrs. Squally N<sup>2</sup> winds all day

November 29<sup>th</sup>

Sky clear most of the day, but persistent fog passing continuously. From 9 hrs till midt. wet Bulb has reading higher than dry bulb from 1 to 6 tenths. Temperature low 17° to 13°. Lunar Corona seen at 17 hrs 22<sup>h</sup> 23<sup>h</sup> and midt. Thermometer Bot changed at 3<sup>h</sup> 10<sup>m</sup> by 1392449 & wet 1392450 put out. Height above snow 52 inches.



1903

115

November 30<sup>th</sup>

Sky a little cloudy with a-c. till noon, fog, but clearing at times for a few minutes since. Temperature low  $17^{\circ}6$  to  $10^{\circ}9$ . Air slightly dry during the forenoon. Lunar Corona seen at 23 hrs and wind. Thermometer changed only at  $0^{\circ}10^m$ , the N<sup>o</sup> being 535541 and wet 535542 put out. Three Visitors ascended the Ben. during November.

December 1<sup>st</sup>

Sky almost cloudless during forenoon but thin fog passing frequently. Summit enveloped in fog all afternoon but cloudless again in the evening. Air slightly dry at times. Lunar Halo at 2<sup>hrs</sup>. Thermometer not changed at 23 hrs 10 mins. Dry 139 ~~was~~ & wet 1392450 put out.

December 2<sup>nd</sup>

Sky cloudy till 5 hrs, fog since. Air pretty dry at 2 hrs the humidity being 47. Temp rising all day. Very black appearance like haze above horizon to W at 3 hrs. Wind backed from N to S in afternoon with showers of snow in the evening.



1903

116

December 3<sup>rd</sup>

Fog or mist with heavy showers of snow and rain. Depth of snow at 15 hrs measured 2.4 inches, an increase of 3 inches.

December 4<sup>th</sup>

Log with almost continuous snow, temperature lower. Mr. W.C. Christie arrived to-day accompanied by A. Mitchell as guide.

December 5<sup>th</sup>

Log all day, with a slight clearing at 8 hrs. Mr. J. Miller went down to-day.

December 6<sup>th</sup>

Fine though foggy all day.

December 7<sup>th</sup>

Barometer fell rapidly in early morning, during which time a very strong gale was experienced. During the gale there was very thick drift, and the rain gauge was not changed. It was apparently snowing, although it was almost impossible to distinguish the snow from the drift. From 5 till 10 hrs rainfall was interpolated. From 6 till 9 hrs the storm-box thermometer readings were used, no correction was necessary. The temperature rose when the gale had subsided.



1903

December 8<sup>th</sup>

117

Barometer rose all day. Strong SE breeze in morning, veering to NW in afternoon and moderating in force. Much was observed at midnight, the temperature then being  $25^{\circ}4$ . From 19 till 23 the fog fell into the valleys. Lunar corona observed at 22 hrs.

At 20 hrs bar. was changed, thermometers  $53.5541$  } put out.  
42 }  
same minimum put out.

December 9<sup>th</sup>

South-easterly gale during the forenoon, moderating in evening. Ice fog-crystals have forming rapidly all day.

December 10<sup>th</sup>

Fog all day with slight snow-showers at night.

December 11<sup>th</sup>

Almost continuous fog. The winds were very light.

December 12<sup>th</sup>

At 21 hrs the fog fell below the summit; light to moderate SE breeze.

December 13<sup>th</sup>

Strong south-easterly breeze at times reaching gale-force. Snow fell all morning. During the last few days, fog crystals have been forming rapidly on all exposed surfaces.



1903

December 14<sup>th</sup>

118

Fog all day, with showers of snow.

December 15<sup>th</sup>

Summit cleared at 5 and 13 hrs, at the latter hour Cirrus clouds were observed.

During the time since Mr Christie <sup>came up.</sup> some of the barometer entries on the sheets have been interpolated as his readings were doubtful.

December 16<sup>th</sup>

The South easterly winds, which have been blowing for a considerable time now, still continue. Fine though foggy weather, summit cleared with cirrus clouds overhead at 12 hrs.

December 17<sup>th</sup>

Fog all day with snow from 10 hrs till 22 hrs. Moderate South-easterly breeze in morning, veering to North-west in afternoon, and backing to South-west at night. Lowest hourly reading was used for temperature report, as minimum in box was shaken.

December 18<sup>th</sup>

Fine though cloudy most of the day, fog again enveloping the summit at night. Aurora seen at 6 am. Today Mr J. Robertson went off on holiday, and Mr J. Macdonald came up to act as cook, A Mitchell accompanied him as guide. Fox and weasel marks seen in snow in morning.



1903

December 19<sup>th</sup>

119

Fog all day with showers of snow in the evening.  
Moderate South-easterly breezes.

December 20<sup>th</sup>

Light winds from South-west and South.

December 21<sup>st</sup>

Barometer fell and temperature rose during the day. Moderate breezes from south-easterly to south-westerly, blowing with gale force at night. Heavy rain in afternoon and evening. The fog fell at 9 hrs, and cirrus clouds were observed. At 17 and 19 hrs Lower thermometer readings were used as the observer was unable to keep his lamp alight, after subsequent comparisons with the Stevenson screen thermometers, a correction of  $-0.2$  was applied. Rainfall was interpolated at 21 hrs, as rain gauge was blown over. At 21 hrs minimum in box was shaken, so lowest hourly reading was used for newspaper reports.

December 22<sup>nd</sup>

Mist or fog with heavy rain or snow all day.  
Moderate to light Southerly to south westerly breezes.

December 23<sup>rd</sup>

Mist or fog all day, summit cleared at 19 hrs, and again at 22 hrs. Showers of snow in morning. In the afternoon, although no precipitation took place the mist was very wet, and silver thaw-coated everything with ice. At 22 hrs the Lower thermometer was broken while being changed. At Midnight the box was changed 535541 & 535542 being put out, also same minimum.



1903

December 24<sup>th</sup>

120

Fine day, the sky was cloudless and fog lay in the valleys all day. Calm or Northerly airs. Glories observed.

Today Mr. Wyner visited the Observatory

December 25<sup>th</sup>

Very fine day. The sky was cloudless and fog lay in the valleys from 8 am onwards, at 19 hrs the fog dispersed except in the valleys to North. Aurora seen at 17 hrs. West coast lights seen in early morning.

Messrs Muir and Wyner visited the Observatory to-day, also A. Mitchell with letters.

December 26<sup>th</sup>

Fine in the morning, fog with occasional breaks from 9 am onwards. At 16 hrs a rain was seen.

December 27<sup>th</sup>

Fog all day, moderate to strong south easterly winds.

December 28<sup>th</sup>

Fog all day, with fog-crystals forming rapidly in morning.

December 29<sup>th</sup>

Fog with slight breaks till 7 am, when the fog fell into the valleys, the sky was cloudless during the rest of the day, with fog passing at times during the forenoon. It was somewhat hazy in afternoon and evening. Glories observed in forenoon, also meteor at 6 hrs. At 16 hrs the box was changed, thermos. 139.2449 being put out also some minimum. Ascending currents from Glen Nevis at 15 hrs.



1903

December 30<sup>th</sup>

121

Fine weather though very hazy. The sky was cloudless, fog lying on the hills to the south-east; in the evening the fog approached and from 21 hrs onwards, enveloped the summit. One west-coast light was seen at 4 am.

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December 31<sup>st</sup>

Fog all day, with fog-crystals forming rapidly on all exposed surfaces. During the last few days the winds have been moderate or strong south-easterly breezes.

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Barometers.

No. 1385 has been used for the observations, while No. 1252 has been held in reserve.

Richards anerograph, which is working well, has been in use.

Thermometers.

Dry bulbs 535541 and 1392449, and Wet bulbs 535542 and 1392450 have been used, also minimums 116918 (in the large screen), and 1108531 A (in the small screen).

The thermometers were exposed in the large (summer) screen between July 1<sup>st</sup> and October 10<sup>th</sup>, and during the rest of the year in the small (winter) screen, placed four feet above the snow on ladder No 2.

The Campbell Stokes Sunshine Recorder was in use.

The Robinson Cup Anemometer was working during part of June, but the observations had to be stopped, owing to the flexible rod going out of repair.

The Rainbow has been observed every afternoon by means of the pocket spectroscope.

The depth of snow was measured at post A during the greater part of the year, but as it became completely buried on March 27<sup>th</sup> an extra



Instruments etc cont.

post was then nailed on to it; by means of which the measurements were thereafter taken.

Photographs were occasionally taken during the first part of the year, both the Observatory Camera, but in June (exact date not known) the latter was unaccountably broken, and was not used during the remainder of the year.

The ordinary routine has been carried on without a break, occasionally an observation has been a few minutes late, and during stormy weather the rainfall records are only approximate owing to drift. When it was impossible to reach the Stevenson screen readings were taken of the thermometer in the storm-box on the south-east side of the Tower, and the necessary correction applied.

The Observatory staff at present consists of A Rankin, J. Miller, W. Bee, W. C. Christie and J. Robertson. During the year R. H. Macdonald, J. C. Marr, A. Lindsay, and D. Gordon were also members of the regular staff. In the summer months the following acted



as volunteer assistants, Messrs Mc Connachie, Ross and Buchanan. Messrs M W Philip and J Macdonald also acted as cooks. Even Mackinnon stayed at the Observatory from July to September as Post Office Clerk. Even MacKenzie was roadman and ticket collector throughout the summer.

Communication has been maintained with the Low Level Observatory and with the Post Office, by means of the telephone which has been working fairly well. In the summer the house fittings were repaired, and the house painted, the walls were scummed and papered, these have caused a lack of ventilation, and the difficulty at present is to keep down the inside temperature. The outside ladders and boxes etc were also painted. In October the old thermometer ladder No 2 was pulled down, and a new one erected in its place. A new wooden stable has also been erected, on the sight of the old one.

In June it was found that the small zinc tank in connection with Wragge's Well had been burst by there, it was replaced by a wooden barrel which served the purpose very well.

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1904

January 1<sup>st</sup>

Summit was clear from 19<sup>h</sup> to 21<sup>h</sup> with fog below to SE, enveloped in fog the rest of the day. Lumen corona at 3 hrs. At 20<sup>h</sup> the box was changed, thermos: -  
 535541 } were put out also same minimum.  
 42 }

Fifteen members of the Scottish Mountaineering Club visited the Observatory to-day.

January 2<sup>nd</sup>

South-easterly winds all day, light in morning and increasing to hurricane force at night. At night the rainfalls were interpolated. At 18 hrs the rain gauge was blown away. At 21 hrs the minimum was found to have been shaken.

At 8 pm the kitchen chimney was split and stopped in by the wind, causing heavy black draught so that the fire had to be extinguished.

Today thirteen members of the Scottish Mountaineering Club visited the Observatory

January 3<sup>rd</sup>

The south easterly gale moderated in force in the forenoon, increased to gale force again in the afternoon moderating in the evening. Snow fell from 17<sup>h</sup> onwards. At 8<sup>h</sup> box was changed.



1900<sup>4</sup>

126

January 3<sup>rd</sup> - cont

thermos: - 1392449 } and same minimum being put out. At 9<sup>h</sup> the rain gauge which had been blown away yesterday was found near the edge of the cliff. During the gale it was found that the new Lows thermometer read on an average 0.8 below the Stevenson screen thermometers, the readings were not required.

Seven members of the Scotch Mountaineering club visited the Observatory to-day.

January 4<sup>th</sup>

Fog with clear breaks in the afternoon and evening. Lunar coronae at 4<sup>h</sup>, 5<sup>h</sup>, and 19<sup>h</sup>. Solar coronae at 11<sup>h</sup> and 12<sup>h</sup>. Box changed at 20<sup>h</sup> 535541 } and same min. put out.

January 5<sup>th</sup>

Submit clear and air dry till 15 hrs, fog since. Fog in valleys all morning also a very thin film of fog over Caledonian Canal, Lochs Lochy and Eil.

January 6<sup>th</sup>

Foggy or clear off and on till 15 hrs fog or mist since with snow or sleet. At 21<sup>h</sup> the rainfall was interpolated as the gauge was blown over. At night the mist was very wet and silver thaw was experienced.

January 7<sup>th</sup>

Fog all day except for a clear spell between 5<sup>h</sup> and 8<sup>h</sup> snow fell all day after 8<sup>h</sup>. At Elms time accompanied by snowy hail observed at 19<sup>h</sup>. Thermos and Box changed at 7 hrs. 1392449-50 also same min. being put out. At 21<sup>h</sup> the minimum in box appeared to have been shaken as it read 23.2.



1900<sup>4</sup>

January 8<sup>th</sup>

127

Fog all day with snow falling except between 17<sup>h</sup> and 22<sup>h</sup>. Light breezes from south-west to north-west.

January 9<sup>th</sup>

Fog with almost continuous snow. Light north-westerly winds in the morning, backing to south-west in the afternoon and increasing in force at night; with the barometer falling rapidly.

January 10<sup>th</sup>

South-westerly gale in morning, veered to North west and moderated in force, being light the rest of the day. Fog with almost continuous snow. During the last day or two the depth of snow on the summit has been increasing fairly rapidly, at 15<sup>h</sup> to-day it was 42 inches. Lightning seen at 20<sup>h</sup> but no thunder heard.

January 11<sup>th</sup>

Fog with continuous snow.

January 12<sup>th</sup>

Fog with heavy snow. The barometer fell and temperature rose throughout the day.

January 13<sup>th</sup>

Fog with snow in the morning and again after 12 hrs. The barometer was very low and fell throughout the day. Temperature was fairly high, at 8<sup>h</sup> and 9<sup>h</sup> the mist was very wet and ice was deposited on all exposed surfaces.



1904

January 14<sup>th</sup>

128

The barometer rose throughout the day, the temperature which was fairly high fell in the evening. A clear fine accompanied with soft hail at 4<sup>h</sup>. At noon the thermometer box was raised.

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January 15<sup>th</sup>

Temperature decidedly lower to-day, northerly variable winds, barometer rose throughout the day.

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January 16<sup>th</sup>

Fog all day with short clear intervals, snow fell most of the day till 18<sup>h</sup>. At 15<sup>h</sup> it was noticed that snow lay on the hills down to sea-level. Barometer rose all day, light northerly winds.

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January 17<sup>th</sup>

Temperature rose rapidly all day, showers of snow in the forenoon, and rain in the afternoon and evening. Silver-thaw in afternoon.

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January 18<sup>th</sup>

Barometer rose all day, temperature very high with continuous rainfall. Today the depth of snow fell from 50 to 44 inches. At 21<sup>h</sup> the minimum appeared to have been shaken.

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1908<sup>4</sup>

129

January 19<sup>th</sup>

Barometer rose till 16 hrs fell again in the evening, mist most of the day with clear intervals, during which cirrus clouds were observed. Drizzling rain till 9 am. The winds which have been northerly for some time, backed to south west in the evening. At mid-night icy crystals were forming on all exposed surfaces.

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January 20<sup>th</sup>

Temperature falling all evening, with the wind veering from south-west to northerly. Showers of drizzling rain in forenoon, sleet in afternoon and snow in the evening. Silver thaw with icy crystals forming all forenoon.

A Mitchell reached the summit to-day with letters etc.

January 21<sup>st</sup>

Fog with clear intervals about mid-day. Barometer very high and rising all day. Temperature lower. Light northerly winds. Box changed at 11<sup>th</sup> thermos. 535541-42 and same minimum put out.

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January 22<sup>nd</sup>

Mist all day clearing since 11 pm. Silver thaw at times, temperature high during the day.

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1904

January 23<sup>rd</sup>

130

Fine and clear all day. Air dry throughout.

Cir-c moving from N on sky from 8<sup>h</sup> till 16<sup>h</sup> - cloudless the rest of the day. Thick fog below all day its upper surface ranging from 3000 to 4000 ft.

Aurora seen from 3<sup>h</sup> till 6<sup>h</sup> - Lunar Corona at 20<sup>h</sup> and 21<sup>h</sup>. Glories at 10<sup>h</sup> and the Bear shadow at 9<sup>h</sup>.

At 22<sup>h</sup> the observer saw a flash of light which he entered as lightning. There was no cloud on sky at time. (Perhaps this was light from a January fire hall?)

When at McLean's Sheep the observer saw a Jayhawk. At the same place he saw two ravens.

Mr. Rankin arrived here today and Mr. Bee went down to Fort William.

Feb. 24<sup>th</sup> The mist rose after 2<sup>h</sup> and enveloped the Summit. The temperature fell 8° between 2<sup>h</sup> and 3<sup>h</sup> (34° to 26° - the dew point of previous three hours)

Fog crystals forming most of the day. The kitchen chimney was sooted today.

Feb. 25<sup>th</sup> Fog all day. The crystals forming today (9<sup>h</sup>) were grey.

Feb. 26<sup>th</sup> Fog and snow. Ice forming on surfaces at night.



1904

January 27<sup>th</sup>

131

Clear but overcast from 12<sup>h</sup> till

18<sup>h</sup> - fog or mist the rest of the day.

Ice forming on surfaces at 8<sup>h</sup>

Earth currents in telegraph wire all evening.

~~Left the observatory at 10<sup>h</sup>~~

St Elmo's Fire seen at 20<sup>h</sup>.

January 28<sup>th</sup>

Fog and snow.

Strong SSW<sup>ly</sup> winds till

14<sup>h</sup> - veering to W and NW later.

The rain gauge was found blown over at 12<sup>h</sup> and

14<sup>h</sup> - and the values in records are interpolations.

Earth currents in early morning and again at night. Lightning seen at 22<sup>h</sup> - 5<sup>m</sup>

January 29<sup>th</sup>

Wind backed to S and blew a gale from 15<sup>h</sup> till mid<sup>t</sup>.

The temperature readings today from 18<sup>h</sup> till mid<sup>t</sup> are from Storm Thermometer in tower.

During these hours also there was no rain gauge out.

at 16<sup>h</sup> the rain gauge was blown over the N. Cliff.

Strong earth currents at night.

5<sup>h</sup> observation started 3<sup>m</sup> late.

January 30<sup>th</sup>

Rain gauge put out and readings of outside thermometers resumed at 1<sup>h</sup>

Earth currents in wire at 3<sup>h</sup> - 55<sup>m</sup> 5<sup>h</sup> - 12<sup>m</sup> and 17<sup>h</sup>

Thermometer box changed at 15<sup>h</sup> - 30<sup>m</sup> Dry and bel-



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Bulbs Nos. 535541 and 535542 put out.

132

The minimum  $2^{\circ}$  1108531A was tested with K.O. 63729  
(not the standard) and found correct.

January  
~~February~~ 31<sup>st</sup>

Mostly fog all morning but afternoon clear and fine. The air was very dry at night, the humidity being  $32\%$  at mid<sup>tt</sup>.

The Cirrus noted at mid<sup>t</sup> was moving quickly from S.

At 1<sup>h</sup> a lunar halo was seen on a dull leaden pallium of dense Cirro-str.

Earth currents noted at 5<sup>h</sup> - 13<sup>m</sup>

At 22<sup>h</sup> and 23<sup>h</sup> a brownish-red glare was seen around the Moon. It extended outwards all round about  $20^{\circ}$ .

February 1<sup>st</sup>

Humidity continued low (lowest,  $26\%$  at 1<sup>h</sup> and 3<sup>h</sup>) till 4<sup>h</sup>; then it rose quickly till at 6<sup>h</sup> the air was saturated. Fog and showers of snow the rest of the day. Fog crystals forming at 9<sup>h</sup>. At mid<sup>t</sup> the fog was very thick and had a pink or rosy glow like fog as seen sometimes at sunrise and sunset.

The brownish-red glare about the Moon continued visible till 5<sup>h</sup>. The following notes were made:  
2<sup>h</sup> — Glare about Moon also tinging cir. clouds. Very faint halo. 3<sup>h</sup> — Trace of halo on Cir but not on coloured haze around Moon. 4<sup>h</sup> — Dark copper-coloured belt above W<sup>th</sup> horizon. Halo complete.



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at 7<sup>h</sup> the observer saw what seemed like two 133  
moons. His notes are as follows: — "Observed in the

W that the moon was very low down and gleaming  
through clouds of a heavy cumulus nature. At a  
distance right below her there was another source  
of light equal in size and brilliance but the  
edge of which was not sharply defined. Taking  
a stand at the tower door and using the corner on  
the top of Fowler Ridge as a point the moon and  
the other light were equally distant above and  
below the same and slightly to the North of the  
face of the Ridge."

Mr John Robertson returned to Observatory  
today and Mr John McDonald left.

February 2<sup>nd</sup>

Fog crystals forming quickly from very thick  
fog all morning. In the afternoon the growth  
was white.

A quantity of the dark fog crystals was gathered  
at 21<sup>h</sup> from the snow post to windward of obs.  
with the object of having the coloring matter  
microscopically examined. It was put into a  
clean glass stoppered bottle, and when melted  
was filtered.

February 3<sup>rd</sup>

Strong E<sup>ly</sup> wind till 6h. with thick  
fog from which fog crystals were forming  
Rapidly.

Lowest corona at 23<sup>h</sup>



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February 4<sup>th</sup>

134

Fog or overcast all day.

February 5<sup>th</sup>

Summit clear till 6<sup>h</sup> Fog during the rest of day.  
 At 2<sup>h</sup>, 4<sup>h</sup> and 5<sup>h</sup> there were bands of Cir-s and  
 Cir-c (or alto cum) radiating from ENE on sky  
 and moving apparently from SE very slowly.  
 Below this there was a stratum of loose  
 Str-cum moving quickly from E. This  
 cloud formed changed and vanished quickly  
 Lunar Corona at 2<sup>h</sup> and 6<sup>h</sup>.  
 Two snow-buntips seen at 13<sup>h</sup>.

(Sorted Kitchen ventilator and put a new set  
 of Fire-bricks in Office Stove)

February 6<sup>th</sup>

Steady E to ESE wind with fog  
 and ~~light~~ showers of snow.

Patched up Tower chimney which had  
 been worn out near top

February 8<sup>th</sup>

Fog forming grey fog-crystals today.  
 Summit clear at 22<sup>h</sup> and midn. A glimmer  
 behind the clouds to N<sup>h</sup> at midn. was probably  
 auroral

Thermometer box changed at 22<sup>h</sup>-10<sup>m</sup> Dry 535341  
 and wet 535540 were put out. Height above  
 snow not altered.

February 9<sup>th</sup>

Thin fog in morning and again at  
 night. Clear and fine from 13<sup>h</sup> till ~~20~~ 20<sup>h</sup>.



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February 9<sup>th</sup> (Cont<sup>d</sup>)

135

In the afternoon there was low lying fog over Lochiel and the C. Canal, and the horizon to SW. W and NW was cloudy. While to E and SE it was very clear.

There was some cir. and cir-cs high on sky from 13<sup>h</sup> to 15<sup>h</sup>. This at 16<sup>h</sup> gave place to a very much lower cloud - lower cir-c or alto-cum.

Part of Solar Halo seen at 14<sup>h</sup>-15<sup>m</sup>.

From 14<sup>h</sup> to 16<sup>h</sup> there was a great reddish ring round the sun outside a whitish watery glare.

Measurements for strophanome were made giving Radius of outside of red =  $26^{\circ} 17'$   
 " " inside " " =  $19^{\circ} 38'$

The 4<sup>th</sup> observation was begun at 4<sup>h</sup>-2<sup>m</sup> - no cor<sup>n</sup> applied to readings.

February 10<sup>th</sup>

Fog crystals  
forming in  
morning.

Earth currents noted at 0<sup>h</sup>-47<sup>m</sup>, 1<sup>h</sup>-0<sup>m</sup> and 1<sup>h</sup>-3<sup>m</sup>.  
 Clear in afternoon but fog all around below to about 4000 ft.

Strongly marked Reddish ring round sun at 15<sup>h</sup>, same as yesterday. No cloud or Halo seen connected with it.

Put the Top joint on Ladder stand today.

February 11<sup>th</sup>

Fog except at 15<sup>h</sup> and 16<sup>h</sup> when sky was overcast with Stratus (alto str.) and thin blue haze was seen in relays. Fine star shaped Snow crystals falling at 21<sup>h</sup>.



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February 12<sup>th</sup>

136

Very stormy in afternoon. The Barometer fell rapidly after 12<sup>h</sup>. Between 13<sup>h</sup> and 14<sup>h</sup> it fell 0.164 inch. The wind increased very quickly to almost hurricane force.

No outside observations were made from 13<sup>h</sup> to 17<sup>h</sup> incl. The temperature readings were made from Tower Storm Screen, and after being corrected were entered in the records. Outside observation were resumed at 18<sup>h</sup>.

Thunder and lightning between 23<sup>h</sup> and midnight (23<sup>h</sup> 7<sup>m</sup>, 19<sup>m</sup>, 21<sup>m</sup>, 28<sup>m</sup> and 35<sup>m</sup>) Earth currents were heard ringing the bell at each flash, Earth currents were also noted in morning — 2 between 4<sup>h</sup> and 5<sup>h</sup>, at 5<sup>h</sup> 55<sup>m</sup>, 6<sup>h</sup> 35<sup>m</sup>, and again at 17<sup>h</sup> 57<sup>m</sup> and at 18<sup>h</sup> 10<sup>m</sup> and 18<sup>h</sup> 20<sup>m</sup>.

Fog all day. Fog crystals grey.

February 13<sup>th</sup>

Fog or mist and squally S<sup>ly</sup> to W<sup>ly</sup> winds all day. Heavy fall of snow and hail. Ice hail falling and ice forming on surfaces in evening.

Box changed after 17<sup>h</sup>. Dry 139 2449 and wet 139 2450 put out. Height not altered.

February 14<sup>th</sup>

Fog most of the day. Clearing at 15<sup>h</sup> and 17<sup>h</sup> showing shower clouds in distance to N<sup>W</sup> and NE.



1904.

February 15<sup>th</sup>

137

Clearing a little between 11<sup>h</sup> and 12<sup>h</sup>.  
Some sunshine recorded.

Thermometers changed Dry 535541 and Wet 535542  
were put out. Bar not changed nor  
height altered.

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February 16<sup>th</sup>

Fog and snow all day. At 1<sup>h</sup> snow and  
snow hail fell. The snow fell as small and  
large notes (not flakes)

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February 17<sup>th</sup>

Fog in early morning and after 19<sup>h</sup>. Clear  
and sky almost cloudless during the day.  
Haze and detached Cum-f all around below.  
Glare round Sun with reddish ring outside  
it in afternoon.

Thermometers changed after 7<sup>h</sup> 1392449-50 put out.  
height not altered.

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February 18<sup>th</sup>

Fog during the day. Cloudless at night  
but very dark.

The strong squally northerly wind last night  
drifted most of the loose snow away. The  
depth yesterday was 61 inches and today 56.

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February 19<sup>th</sup>

Summit clear till 5<sup>h</sup>. The wind backed quickly  
from N to SW between 3 and 5<sup>h</sup>. Fog snow and hail  
till 16<sup>h</sup>. then mist and heavy rain till mid.

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1904 February 20<sup>th</sup>

138

Fog or mist and heavy snow all day  
[During the last few days the Observatory Cat  
has been suffering from a form of Paralysis.  
Today it was destroyed. It was brought to  
the Summit as a Kitten a few months old  
on 26<sup>th</sup> July 1895.]

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February 21<sup>st</sup>

Wind backed quickly in early morning from  
N. to SE and blew a moderate to Strong breeze  
till 17<sup>h</sup>. Thereafter it turned to S, NW and N.

February 22<sup>nd</sup>

Fog in morning, and very thick fog at night  
forming dark fog crystals (wind S to SE)

Summit clear from 7<sup>h</sup> till 16<sup>h</sup>.

Thermometer Box changed after 8<sup>h</sup> 235541-42  
put out. After 17<sup>h</sup> the Therm. Box was raised one  
step on ladder stand. It now rests on the  
top of the fixed ladder.

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February 23<sup>rd</sup>

Very thick fog all day, and fog crystals  
very dark. A quantity of these was collected  
by Mr. Christie for examination by  
microscope.

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February 24<sup>th</sup>

Fog crystals (dark) forming all day.  
Gritty snow falling most of the day but not  
showing much in gauge. Wind mod. to Strong  
SE. The surface drift was much whiter than the  
fog crystals



1904

February 25<sup>th</sup>

139

Fog forming dark fog crystals. all day.

Small gritty snow falling during the day, but more flaky at night.

February 27<sup>th</sup>

Clearing at intervals during the day: and quite clear and air dry after 18<sup>h</sup>.

Varying amounts of Cir-s and Cum-cis on sky moving from N and bying NW and SE.

Bright Lunar Corona seen at 19<sup>h</sup>  
Some of the recent crop of dark fog crystals were today collected at several points between Summit and Buchan's Well.

February 28<sup>th</sup>

Clear till 4<sup>h</sup>, at times during the day and after 21<sup>h</sup>.

Lunar Halo seen at 3<sup>h</sup> and 4<sup>h</sup>.

Very thick haze (visibility 1) all round below at night.

Fog crystals today were dark.

February 29<sup>th</sup>

Temperature low today, 15° 8' to 10° 5'.  
Fog most of the day but clear in early morning and again at mid<sup>h</sup>.

Lunar Corona seen on Cir-c cloud at 1<sup>h</sup>.  
Put out Dry 535541 & Wet 535542 after 15<sup>h</sup> as the other set is not suitable for low temperatures



1904

March 1<sup>st</sup>

140

Summit clear most of the day. Varying amounts of cir-s, Strcir (alt-Str) and cir-cum on sky, and haze and fog below.

Lunar halo seen on Cir-haze at 2<sup>h</sup> 3<sup>h</sup> and 4<sup>h</sup> and lunar corona seen at 4<sup>h</sup>. Hazy reddish glow about moon (rad ) at .

22<sup>h</sup> at 23<sup>h</sup> the cir-s in sky, consisted of one long

irregular band in W<sup>est</sup> sky lying NNE and SSW.

At 16<sup>h</sup> the radiating points of clouds were NE and SW. This <sup>cloud</sup> was also ribbed NW and SE.

Thermometer has changed after 20<sup>h</sup>.

Fine starry snow crystals falling at 8<sup>h</sup>.

March 2<sup>nd</sup>

In the early morning there was some cir-s low in W<sup>est</sup> sky. lying NE-SW. At times this gave off arches which rose and advanced in a SE<sup>th</sup> direction - the highest observed being about 40° above horizon at 5<sup>h</sup>.

Fog came on at 6<sup>h</sup>.

Trace of small lunar corona on cir-s at 5<sup>h</sup> but no trace of a halo. Lunar corona seen again, in fog, at 6<sup>h</sup>.

At 8<sup>h</sup> it was noted, that the snow crystals lying on surface assumed the peculiar appearance of curved plates (with their edges (which were mostly straight lines) raised).

March 3<sup>rd</sup>

Note at 5<sup>h</sup> "Fog crystals forming all night - white." Fog all day. Strong earth current at 13<sup>h</sup> 42<sup>m</sup>.



1904 March 4<sup>th</sup>

141

Fog till 22<sup>h</sup>. Clear but overcast thereafter the clouds being close overhead.

Gritty snow particles or drift in air at 2<sup>h</sup>

March 5<sup>th</sup>

Fog or overcast till 6<sup>h</sup> and after 17<sup>h</sup> summit clear and sky partly clear in interval.

Thermometer box changed after 10<sup>h</sup> - 1392449-50 put out.

A pair of ravens seen at 11<sup>h</sup> - 30<sup>m</sup>.

Heather burning today

March 6<sup>th</sup>

Sky fairly clear till noon; Cloudy or fog on summit all evening.

At 12<sup>h</sup> - 30<sup>m</sup> broad pink band noted round the Sun. Noted also at 14<sup>h</sup> and 15<sup>h</sup>.

Showers clouds seen in various directions

Changed thermometer after 7<sup>h</sup> 535541-42 put out.

March 8<sup>th</sup>

Fog on summit almost all day.

at 5<sup>h</sup> note: "Fog crystals forming all night"

at 16<sup>h</sup>. Stray starry snow crystals were falling.

Thermometer box changed after 15<sup>h</sup> 1392449-50 put out

March 9<sup>th</sup>

Cloudless till 7<sup>h</sup>. fog till 17<sup>h</sup> and clear again thereafter.

Solar Corona seen at 17<sup>h</sup> - 20<sup>m</sup>. and the Zodiacal light from 20<sup>h</sup> till after 23<sup>h</sup>.

A Raven was seen in evening



1904

March 10<sup>th</sup>

142

Summit clear and air very dry all day. Atmosphere pretty clear below all round during the forenoon, but thick haze came on in the evening. This haze was first seen to SW and W<sup>2</sup> and it steadily advanced from that direction. At 12<sup>h</sup> 15<sup>m</sup> fine masses of alto.C. were seen in W<sup>2</sup> sky. The cir. s in sky later on radiated from NW and SE. At 20<sup>h</sup> the wet bulb looked too dry. It was at once wetted and another observation was made at 20<sup>h</sup> 7<sup>m</sup>. This latter is that entered in daily sheet. Double glories seen at 7<sup>h</sup> and 8<sup>h</sup> and a Solar Halo at 15<sup>h</sup>. The Earth shadow was observed at 7<sup>h</sup>.

March 11<sup>th</sup>

Clear and cloudless in forenoon, but fog all round below to near level of Summit. Fog on Summit in morning and at night. Today Mrs Bee came up and Mr. Christie went down the hill.

March 12<sup>th</sup>

Fog till 6<sup>h</sup> at 13<sup>h</sup> and 14<sup>h</sup> and after 21<sup>h</sup>. Cir. s and str. cir on sky whose radiating points at 15<sup>h</sup> were SW - NE.

Thermometer box changed after 8<sup>h</sup> 535541-42 put out - height not altered.

March 13<sup>th</sup>

Fog and showers of snow. Entries of amount of rain at 1<sup>h</sup> and 2<sup>h</sup> doubtful. (Mr. R. M. Boyall and party visited obsy today)



1904

March 14<sup>th</sup>

143

Cloudy all morning. Fog and showers of snow in afternoon.

S. Elm's Fire observed at 13<sup>h</sup>.

Thermometer box changed after 4<sup>h</sup>: 1392449-50 put out. The thermometers were again changed after 12<sup>h</sup> as the wet bulb was reading much above the dry all forenoon. — 535541-42 put out.

March 15<sup>th</sup>

Almost clear all morning. Cloudy in afternoon. fog at night

Very thick haze run to SE in afternoon. It lay SW - NE and did not come near to Ben Nevis than the middle of the moor of Rannoch. (changed Ther. Box after 10<sup>h</sup>. Same thermometer left out)

March 17<sup>th</sup>

Fog and showers of snow yesterday and today.

Today the 7<sup>h</sup> observation was started 4<sup>m</sup> late and the 15<sup>h</sup> obs. 1<sup>m</sup>

March 18<sup>th</sup>

Clear ice forming on surfaces at night  
23<sup>h</sup> obs. 1<sup>m</sup> late.

March 19<sup>th</sup>

High temperature, mist and rain.

March 20<sup>th</sup>

Fog and snow. In early morning the snow fell in small notes.

Snow-bunting seen at 8<sup>h</sup>

14<sup>h</sup> obs. 10<sup>m</sup> late.

March 21<sup>st</sup> Fog and snow.



1904 March 22<sup>nd</sup>

Heavy fall of snow today. Clearing at 144  
night.

St Elmos Fire was noted at 13<sup>h</sup>

Thermometer box changed after 23<sup>h</sup> 139.2449.50  
put out - height not altered.

18<sup>th</sup> observation 6<sup>m</sup> late.

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March 23<sup>rd</sup>

Air very dry all morning. Sky cloudless,  
apparently all day, but there was fog and  
mist on summit for a few hours in  
evening.

Lunar Coronae were seen at night.  
A lunar fogbow was noted at 22<sup>h</sup>.  
The Earth Shadow was observed at 6<sup>h</sup>.  
Fog lay below 4000ft all round at night.  
19<sup>th</sup> obs. started at 19<sup>h</sup> 3<sup>m</sup>.

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March 24<sup>th</sup>

Cloudless all day, but fog all  
round below and at times passing  
across the Summit. This fog reached  
up to 4000ft most of the day, but  
in evening it began to fall, break  
up and disperse.

Reddish ring round Sun at 15<sup>h</sup> and  
16<sup>h</sup>. The plate slab forming the base of the  
Sunshine recorder became useless - crumbling  
to bits today, and a thick wooden  
base was substituted.

---



1904 March 25<sup>d</sup>

Fog below to S<sup>d</sup> SW<sup>d</sup> and SE<sup>d</sup> most of the day and haze to N<sup>d</sup>. At night fog enveloped the summit also.  
Lunar corona seen at 21<sup>h</sup>

145

March 26<sup>th</sup>

Fog on summit or sky overcast.  
Fog crystals forming in early morning.  
Lunar corona seen at 20<sup>h</sup>.  
The fog that came on at 19<sup>h</sup> came on from above.

March 27<sup>th</sup>

Clear most of the morning.  
Fog and snow all evening.

March 28<sup>th</sup>

Strong S to SE wind all day, with fog and snow. The amounts of snow measured today are very doubtful, after 19<sup>h</sup> the gauge was brought in.

March 29<sup>th</sup>

The wind moderated and veered to NW by 4<sup>h</sup> but backed thereafter to SW.  
Snow falling all day.

March 30<sup>th</sup>

Fog till 6<sup>h</sup>: clear and cloudless thereafter except from 13<sup>h</sup> till 16<sup>h</sup>. Very fine cum. clouds all round below in morning.

Hazy space round moon at night.  
Thermometer box changed. after 8<sup>h</sup>. 535541-42 put out.



1904 March 31<sup>st</sup>

Summit clear till 8<sup>h</sup>. Till 4<sup>h</sup> there was 146  
not a speck of cloud in sky, or fog anywhere below.  
At 5<sup>h</sup> there were some streaks of Cir-s to E<sup>o</sup> + SW<sup>o</sup>.  
At 6<sup>h</sup> some str. f appeared on Wm hills. This spread  
and became general at 7<sup>h</sup> while very thin Cir-s  
or Cir. haze almost covered the sky. Fog enveloped  
summit at and after 8<sup>h</sup>. After 10<sup>h</sup> the wind  
suddenly increased to a strong gale, and  
did not moderate till after 17<sup>h</sup>. At 16<sup>h</sup>  
and 17<sup>h</sup> the tower screen thermometer was  
read for the temperature. Snow was falling,  
but drifting so much that the rain gauge  
was not used till after 18<sup>h</sup>. The entries of  
amount of fall for the hours 13<sup>h</sup> - 18<sup>h</sup> incl. on  
monthly sheet are interpolations.

April 1<sup>st</sup>

Heavy shower of snow & snowhail all day  
depth of snow at 15 hrs was 80 inches. Earth Currents  
at 20<sup>h</sup> 1<sup>m</sup>. At 7:10 today the first telegram of weather  
(International Code) was sent to Seewarte Hamburg.

April 2<sup>nd</sup>

SE to SW gale all afternoon. Temperature  
rising all day. Tower thermometer in use and  
entered on daily sheet at Mdt. The measure-  
ments of amount of snow at 16<sup>h</sup> and Mdt.  
are interpolations owing to strong wind & drift



1904

April 3<sup>rd</sup>

147

Strong squally winds till 13 hrs moderating and light in force since. Very heavy showers of snow and hail all day. A sharp fall of temperature occurred between 21 & 23 hrs of 7.5° wind veering from S to W and NW during same time. Temperature remaining steady during the rest of the day between 21 & 23°. Tower thermometer reading entered on daily sheet at 1 hr. and measurements of amount of snow at 1 & 2 hrs are interpolations due to strong wind.

Earth currents on Cable at 3:53<sup>PM</sup>

April 4<sup>th</sup>

Fog with heavy showers of snow - lightning seen at 3 hrs. Earth currents on Cable 5:37<sup>PM</sup>

April 5<sup>th</sup>

Squally Variable winds during the day, increasing in force and blowing a gale from SW in the evening. Thermometer not changed at 6:10<sup>PM</sup> by 1392449 + wet 1392450 put out

April 6<sup>th</sup>

Heavy showers of snow and ice/hail all day. Strong squally winds most of the day. Tower thermometer reading entered on daily sheet.



- at 1 hr. Today J. Miller came up and Rankin went down to Low Level Observatory

April 7<sup>th</sup>

Summit clear at 17 hrs for a few moments, and sky apparently overcast. Heavy showers of snow during the day

April 8<sup>th</sup>

Temperature high today  $35^{\circ}$  at 16 hrs but falling quickly since  $24^{\circ}$  at night. Snow & rain fell most of the day

April 9<sup>th</sup>

Low temperature with continuous snow

April 10<sup>th</sup>

Squally N<sup>E</sup> or NE<sup>ly</sup> winds all day with heavy showers of snow

April 11<sup>th</sup>

Fog all day with showers of snow till noon, fair thereafter. The depth of snow has increased rapidly during the month. At 15 hrs today it measured 100 inches



1904

149

April 12<sup>th</sup>

Strong SE<sup>4</sup> winds all day. Feathering fog crystals white in colour forming in early morning but during the day the colour changed to a very dark brown. Fog very dense in the evening. Today Mr C. Christie came up and W. Bee<sup>down</sup> went.

April 13<sup>th</sup>

Strong SE<sup>4</sup> winds at times reaching gale force. Summit clear occasionally in afternoon. Slight showers of snow & drizzly rain during the day. 3 minutes sunshine recorded today being the total recorded during this month. Feathering fog crystals forming all day. Earth currents on cable at 4:8.

April 14<sup>th</sup>

Fog with slight showers of snow till 18<sup>hrs</sup>. Sky almost cloudless and air slightly dry till 23<sup>hrs</sup>. Fog since. Very gloomy appearance to S & SW in evening. Strong SE<sup>4</sup> winds all day. Fog crystals forming during the day. Thermometer Bar changed at 19<sup>hrs</sup> 10<sup>min</sup> by 535521 & bar 535542 put out. Three visitors climbed Tower ridge today and visited Observatory.



1904

April 15<sup>th</sup>

150

Slight showers of snow in the evening  
 Today 3 Tourists visited the Observatory

April 16<sup>th</sup>

Fog or mist with slight showers of  
 snow and drizzling rain during the day

April 17<sup>th</sup>

Summit clear from 14 hrs till 18 hrs  
 but sky overcast. Slight showers of snow  
 in early morning and again in the  
 evening. Thermometer not changed  
 after 16 hrs. Dry 13924494 Wet 1392450  
 put out. Today 11 visitors climbed.  
 Ben Nevis including two ladies

April 18<sup>th</sup>

Fog with showers of snow till 7 hrs  
 Clear since. Some cirrus on sky and  
 moving slowly from NW. The air has  
 been pretty dry at times, the lowest  
 humidity being 47 at 23 hrs. Atmosphere  
 somewhat hazy in afternoon. Solar  
 Corona seen at 10 & 11 hrs. A Solar Halo at  
 15 hrs and Glories at 19 hrs. Two visitors up  
 today and two others seen on Cairn Dearg to W<sup>d</sup>



1904

April 19<sup>th</sup>

151

A very fine day but air very hazy especially so in afternoon and high up. Temperature high & air dry all day the lowest humidity being 41 at 4 hrs. Five visitors up today.

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April 20<sup>th</sup>

Fog with showers of snow during the day but summit clear again after 19 hrs and sky almost cloudless. Temperature falling all day (34 to 24). Fog low over Lochiel and Canal in early morning somewhat hazy all day.

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April 21<sup>st</sup>

Fog with showers of snow since 5 hrs. Temperature low all morning but rising during the day. Light N<sup>W</sup> winds in forenoon backing to S tonight.

A Lady visitor up to day

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April 22<sup>nd</sup>

Fog or mist with showers of snow sleet and drizzle. Earth currents on Cable frequently during the forenoon.

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1904

April 23<sup>rd</sup>

152

Thetops clear at 6 hrs but sky overcast  
 Fog on hills to N to about 4000ft, det Cumfog  
 on hills in other directions. Fog on Mt  
 during the rest of the day with slight  
 showers of snow and drizzling rain.

The visitor up today (Mr Parr <sup>Grand of his</sup> ~~death~~ 3:6:04)

April 24<sup>th</sup>

Strong squally var winds chiefly  
 NE<sup>2</sup> all day. Temperature high till 14 hrs  
 34.8 falling quickly since 22° at Mt  
Heavy fall of rain sleet and snow during the day

April 25<sup>th</sup>

Summit clear at 8 hrs but sky entirely  
 overcast. Fog during the rest of the day with  
 showers of snow. Variable squally winds  
 chiefly NE<sup>2</sup>. Temperature low and steady  
 20.0 to 23.5. Barometer pumping most of the  
 day. Earth Currents on Cable at 7<sup>th</sup> 54.

April 26<sup>th</sup>

Heavy showers of snow almost all day  
 At the 11 hr observation warm puffs of air were felt between  
 Tower and Thermometer Box. Earth Currents between 7+8 hrs



1904

April 27<sup>th</sup>

153

Temperature low in morning but rising to a little above  $32^{\circ}$  at 14 hrs about steady since heavy showers of snow + rain since 6 hrs

April 28<sup>th</sup>

Temperature high + steady between  $32^{\circ}$  +  $35^{\circ}$ . Continuous sleet + rain all day

April 29<sup>th</sup>

Thin fog or mist all day and sun gleaming at times. Showers of drizzle in morning and snow in afternoon. Light to  $W^2$  winds during the day backing to SE to night. Bar changed after 20 hrs, but same thermometers left out.

April 30<sup>th</sup>

Sun gleaming occasionally in afternoon. Summit clear from 20 to 23 hrs, but sky pretty cloudy. A little hard packed snow on sky to N at 22 hrs. Very gloomy looking to E. Squally variable W. winds all day. Heavy showers of rain sleet + hail during the day. Barometer pumping all afternoon. Thermometer Bar changed after 20 hrs by 535541 wet 535542 put out.

Twenty six visitors climbed Ben Nevis during April



7404

May 1<sup>st</sup>

154

Strong S<sup>W</sup> to SW<sup>W</sup> winds with heavy falls of snow. Snow drifting badly most of the day. Thunder and Lightning at 15<sup>h</sup> 15<sup>m</sup>. at the same time a flash occurred in lightning conductor of Telephone. We removed the ~~fine~~ coil which we found to have been fused badly and put in a spare one. Later on we tried to ring up Low Level but could not get attention evidently a burst up <sup>also</sup> had occurred at the bottom of the hill. No newspaper Report sent to night owing to break down in Telephone Earth Currents on Cable at 20<sup>h</sup> 50<sup>m</sup>

May 2<sup>nd</sup>

Temperature low 29 to 24. Heavy showers of snow during the day. Telephone put in order today. The cause of break down was found to be in test bot at the foot of the hill. Saturday and Sunday weather Report for newspapers and also Butche Speer's were telephoned to Low Level to be posted. Warm puffs of air felt at 13 hr observation between tower and thermometer bot



1904

May 3<sup>rd</sup>

155

Wind very variable all day but on the whole N<sup>W</sup> and somewhat gusty. Heavy falls of snow during the day. Summit clear at midn and sky cloudless. Fog in N Cliff and on hill immediate to the E of Ben Nevis. At Elms Fire heard fizzling on kitchen chimney, roof of Tower and felt on observers fingers at 3 hrs. Bot changed after next observation by 139 2249 & wet 139 2250 put out. Height above snow 40 inches.

May 4<sup>th</sup>

Sky cloudless till 11 hrs, cloudy with Cir-S till 14 hrs, fog on and off since. Fog hanging about hills to N. E. & SE all day. Haze in distance during the day but clearer to E. Temperature low in early morning but rose rapidly after 5 hrs to 42° at 8 hrs, but with a change of wind from N backing to SW the temp- dropped 7° between 8 & 9 hrs remaining fairly steady thereafter but falling on the whole



1904

May 5<sup>th</sup>

156

Temperature steady between  $32^{\circ}$  +  $35^{\circ}$ . Slight showers of drizzling rain and sleet during the day. Earth currents on cable at 13:55<sup>hr</sup>

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May 6<sup>th</sup>

Summit clear and air slightly dry after 19 hrs. Sky overcast or nearly so. Fog on hills all round and at 22 hrs rising up above Summit to N<sup>d</sup> and passing over hilltops at times thereafter. Slight showers of snow + sleet during the day. Temperature falling gradually in the evening  $21.6$  at midn. Ice crystals forming on all exposed objects all forenoon. Part of an Aurora seen at 23 hrs. Thermometer bot changed after 20 hrs. log 535541 + bot 535542 put out.

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May 7<sup>th</sup>

Winds very squally and variable, at times all round the compass but chiefly N-E. Slight showers of snow during the day. Short breaks in the fog with sunny intervals. Barometer pumping wildly all day.

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1904

May 8<sup>th</sup>

157

Fog all day with slight showers of snow in forenoon. Strong squally N<sup>E</sup> or NE<sup>E</sup> winds all day. Temperature very low in morning. But rising during the day. Barometer pumping wildly all day. Feathering fog crystals forming all day. But growing slowly.

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May 9<sup>th</sup>

Very thin fog most of the day and at times clearing a little overhead. Slight showers of snow in morning.

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May 10<sup>th</sup>

Summit clear after 16 hrs but sky overcast or almost so. Air slightly dry at times in the evening. The observer while out walking on hilltops felt warm puffs of air between 10 + 11 hrs. Today temperature has been somewhat higher than has been experienced during the past few days 28° to 35°. Earth Currents on Cable at 8:55<sup>PM</sup> + 8:57<sup>PM</sup>

Bot changed after 20 hrs by 1392649 and wet 1392450 put out. Height above snow 38 inches.

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1904

158

May 11<sup>th</sup>

Summit clear till 2 hrs, almost continuous fog since. At 1 hr a luminous light on sky at a point NW above horizon and extending to about the zenith, also the same kind of light above horizon to SE to about  $30^{\circ}$  altitude

May 12<sup>th</sup>

Summit clear from 4 till 8 hrs, but atmosphere very hazy all round, the hills on opposite side of Glen Nevis being barely visible. A little Cir-S on sky and moving rather fast from the W. Mist during the rest of the day with drizzling rain. A Capital thaw today; Temperature high and rising all day being about  $40^{\circ}$  at 23 hrs

May 13<sup>th</sup> Earth Currents on Cable between  $10^{\text{h}} 35^{\text{m}}$  or  $10^{\text{h}} 53^{\text{m}}$   
 Temperature high and steadily  $39^{\circ}$  to  $36^{\circ}$

Mist with drizzling rain all day.  
 Today Mr Robertson went down the hill

May 14<sup>th</sup>

Mist or fog with heavy showers of rain snow and hail. Very fine snow falling in forenoon.



1904

159

May 15<sup>th</sup>

Heavy showers of snow till 10 hrs and glazed frost after 21 hrs temperature about  $31^{\circ}$ .

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May 16<sup>th</sup>

Summit clear and air slightly dry from 8 hrs till 16 hrs. Thick haze all round and very gloomy looking to E & SW. Temperature very high during the day about  $43^{\circ}$  but falling quickly again at night. Bar changed after 8 hrs by 535521 to 535522 put out. Height above snow 44 inches

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May 17<sup>th</sup>

Squally variable winds chiefly W & with heavy showers of snow. St Elmo's Fire heard at 20 hrs. Temperature much lower  $26$  to  $30^{\circ}$ . Most of the snow that fell today was in the form of small hard round pellets

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May 18<sup>th</sup>

Continuous snow all day. Today J. Robertson Cook left Fort William for Edinburgh having left the Observatory for good

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1904

May 19<sup>th</sup>

160

Fog with showers of snow till 9 hrs  
 Clear and air dry at times since. Loose  
 fog hanging about hills all day  
 and occasionally passing over hilltops  
 in the evening. Passing showers to N.E  
 & S. in afternoon. Temperature still  
 keeping very low. Earth currents on  
 Cable at 9<sup>h</sup> 25<sup>m</sup>. Bot changed after 10 hrs  
 by 1392449 & 1392450 put out

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May 20<sup>th</sup>

Weather very fine. Sky almost cloudless  
 till noon cloudy in afternoon and overcast in the  
 evening with Cir-S. Hazy all day but becoming  
 thicker in the evening. Air very dry at times,  
 the lowest humidity being 31 at 7 hrs. but fog  
 on hill around in early morning but  
 clearing away during the forenoon  
 Solar Halos seen at noon and at  
 17<sup>h</sup> 50<sup>m</sup>

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1904

May 21<sup>st</sup>

161

Gloomy overcast sky or fog all day  
 Very thick haze high up all round. Air  
 slightly dry most of the day. The direction  
 for upper cloud at 4 hrs is that of the C<sub>1</sub>-C  
 only, the C<sub>1</sub>-S was much higher and very  
 thin but <sup>no</sup> direction could be got.

Slight showers of snow in the evening  
 The 18 hrs observation was taken 5 minutes late

May 22<sup>nd</sup>

Summit clear at 15+16 hrs but sky  
 overcast and very hazy all round. Slight  
 showers of snow till 3 hrs from during the rest of the day  
 Today 2 tourists visited the Observatory

May 23<sup>rd</sup>

Fog or mist with drizzling rain until 6 hrs  
 Then visitors up today.

May 24<sup>th</sup>

Temperature high and steady with mist  
 and drizzling rain till 12 hrs. Summit clear at  
 times till 21 hrs. Sky cloudless since. Temperature  
 falling quickly in evening. Fog on hills around  
 Thermometer not changed after 22 hrs by 535541 &  
 but 535542 put out. Same Min out.



1904

May 25<sup>th</sup>

162

Very fine weather almost all day  
and air dry. but fog on hills in early morning  
till 5 hrs and again after 18 hrs and gradually  
spreading all round and enveloping hilltop  
at Mt. Haze about all day. Shadow of  
the Bear seen at 4 hrs.

11 Visitors up today

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May 26<sup>th</sup>

Sky cloudy or overcast with Cir  
and Cir C moving quickly from SW. till 15 hrs  
mist since with heavy rain. S to SE<sup>2</sup>  
winds in forenoon veering to W + NW times  
Temperature higher today being 40° at 14 hrs  
Earth currents on Cable between 15 + 16 hrs  
3 Tourists up today

---

May 27<sup>th</sup>

Air very clear and dry most of the  
day the lowest humidity being 34 at 23 hrs  
Sky cloudless till noon somewhat cloudy  
since. Temperature at 14 + 15 hrs was 44°  
being the highest observed readings this year  
Heavy volume of smoke over Lochet at  
10 hrs. Raven seen at 11 hrs near Tin Can Gully

---



1904

May 28<sup>th</sup>

163

Sky cloudy or overcast till 10 hrs, then fog during the rest of the day. Air very clear and dry in early morning. Foreflow colours very fine at 2 & 5 hrs. Fog in valleys in distance to NE in early morning. Thermometer but lowered one step on ladder at Mdt. Height above snow 37 inches  
4 Visitors up to day

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May 29<sup>th</sup>

After 4 hrs fog sunk below Summit to about 4000ft, leaving sky slightly covered with Cir-S and apparently moving rather slowly from SW. Fog breaking up and disappearing after 11 hrs. Ascending currents to W in afternoon. Temperature high being above 40° all day and 49° at 16 hrs. Haze in distance high up all day

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May 30<sup>th</sup>

Sky cloudless or almost so till 16 hrs. Fog or mist till 23 hrs. Summit clear again since and sky cloudless. Haze all round most of the day. Temperature very high all day being 50.3 at 13 hrs.

P.T.O.



1904

Cont.

164

Hills on opposite side of Glen Nevis appeared to be much ~~closer~~ nearer to observer than usual in morning, the tops of the hills being entirely above the haze. About 4:30<sup>PM</sup> a great piece of snow cornice overhanging cliff between 2<sup>nd</sup> gorge and tower point gave way making a tremendous noise resembling thunder. Wraggs hat in sight at foot

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May 31<sup>st</sup>

Sky almost cloudless till 8 hrs fog since moderate to light SE to ESE winds all day. Today Mr. Kelly arrived at Observatory to act as Cook, also a horse with fresh provisions left Fort William, but only reached Plateau of Storms, load was carried to summit by horseman.

Twenty three visitors climbed Ben Nevis during May.

---



1904

June 1<sup>st</sup>

165

Clear and air dry but sky almost overcast at 20+21 hrs. Mist during the rest of the day with showers of rain. Thermometer bot lowered one step at 16 hrs. Height above snow 36 inches. Earth Currents  $8^{\text{hrs}} = 55^{\text{m}} - 56^{\text{m}} + 57^{\text{m}}$ .

June 2<sup>nd</sup>

Mist till 3 hrs. Summit clear since sky has been cloudless and at times cloudy with Cir-Cu-s and Cir-C moving from NW and W in forenoon and SW in afternoon. Fog all round below in morning on which glories were seen at 4+5 hrs. Solar Halos seen at 12+13 hrs. Air has been very clear and dry since 5 hrs. Top joint of thermometer Taken down in afternoon. Four Tomits up today.

June 3<sup>rd</sup>

Very fine clear weather and sky cloudless all day. Humidity ranging from 86 to 51. Low lying fog over Caledonian Culbath and in valleys to SE in early morning. 6 Visitors up today.

Heard of her Pains death today  
a member of 5 M.C. Last visit  
to Summit was 23<sup>rd</sup> April 1904



1904

166

June 4<sup>th</sup>

Thick haze around all day.  
Temperature and Barometer high. Low lying  
fog in valleys in early morning.

Six visitors up today

June 5<sup>th</sup>

Light variable air or calm all day.  
Temperature high 55° at noon. Thick haze  
around all day. At 23 hrs fog rising  
in Glen Davis and passing over Summit.  
Seven visitors up today.

June 6<sup>th</sup>

Sky cloudless till 10 hrs, cloudy overcast  
9 at times fog till 21 hrs cloudless again since.  
Thick haze around all day. but fog  
on lower hills in forenoon. Thermometer  
not lowered on steep at 0<sup>h</sup> 7<sup>m</sup>. Height  
above snow 36 inches.

A horse with provisions reached the Observatory  
today. This is the first horse on Summit this  
year. Two visitors up today.



1904

June 7<sup>th</sup>

167

Thick haze in early morning but thinning during the day. Low lying fog in valleys in forenoon. Air very dry at times during the day lowest humidity 39 at 9 hrs. Sky cloudless till 15 hrs, a little cloudy till 21 hrs cloudless again since. Summit Hotel opened today

June 8<sup>th</sup>

Temperature decidedly lower today falling below freezing point after 19 hrs. Sky has been cloudless all day except for fog passing overhead at times in the evening, which has been on hills most of the day to N and E. Horsemen report strong wind half way up hill. Today J. S. Bigg arrived at Observatory to relieve W. Christie who goes off on holiday. Nine tourists visited Observatory today.

June 9<sup>th</sup>

Thin fog till 4 hrs. Summit clear since. High fog on hills to N + E and passing persistently overhead all day. Squally winds N or NW till 4 hrs TE or NE since.



1904

June 10<sup>th</sup>

168

Temperature fairly high and sky cloudy most of the day. Piled up masses of fog on hills to N + E almost all day and frequently passing overhead. Iron cage at SE angle of house came in sight during forenoon, also small crows scattered over summit.

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June 11<sup>th</sup>

Sky almost cloudless in forenoon. Cloudy in afternoon. Temperature low in morning but rose during the day to 49° at 15 hrs. Fog in valley to N + E in morning but dispersing after 9 hrs. Hearfoot on roof of Observatory in morning. 90 per cent of total sunshine recorded today. Thermometer Bot ~~to~~ lowered one step. Stones beginning to show up around foot of ladder.

---

June 12<sup>th</sup>

Sky cloudless till 7 hrs, cloudy or overcast till 2 hrs. fog since. The cumulus cloud gradually lowered till it finally settled on summit somewhat hazy all day. A faint Solar Halo seen at 8<sup>45</sup> <sup>hr</sup>.

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1904

June 13<sup>th</sup>

169

Short breaks in fog in evening and sky apparently overcast or nearly so. Showers of rain from 6 till 14 hrs and again at night

June 14<sup>th</sup>

Summit clear but sky overcast with Cum pull from 10 till 13 hrs. Mist during the rest of the day with showers of rain wind SW till 5 hrs. backing to S + SW and blowing a gale all evening. Snow completely thawed away round thermometer ladder

June 15<sup>th</sup>

Wind veering to SW and moderating in force after 2 hrs variable + squally during the rest of the day with heavy showers of rain

June 16<sup>th</sup>

Strong squally variable winds chiefly SW with heavy showers of rain sleet and snow. Barometer pumping all day

June 17<sup>th</sup>

Pressure and Temperature low and steady. Mist or fog with heavy showers of rain sleet and hail till 9 hrs fair during day but drizzle after 23 hrs



1904

170

June 18<sup>th</sup>

Mist all day with light variable winds and steady low temperature (at 7<sup>th</sup> 31.7)

Today Mr James Muller went down to L.L.O. and Mr Hugh Rankin arrived.

June 19<sup>th</sup>

Mist all day again with temperature rather low and very steady.

Rat seen in early morning and again at night feeding in front of kitchen window. On being disturbed it ran in the direction of the coal cellar or the stable.

June 20<sup>th</sup>

Mist: Showers of snow and sleet.

St Elmo's Fire observed at noon - large snow-flakes falling at the time.

June 21<sup>st</sup>

Temperature low. Mist all day. Heavy drizzle at night.

Mr. A. Rankin arrived & Mr. H.F. Rankin left.

June 22<sup>nd</sup>

Mist and drizzle all day. Temperature slightly higher - mean 36.5.

June 23<sup>rd</sup>

Mist all day. Heavy drizzle till 10<sup>h</sup>. A large Hare seen on Summit at mid<sup>l</sup>.



1904

June 24<sup>th</sup>

Summit clear but sky overcast with 171  
stratus from 3<sup>h</sup> till 8<sup>h</sup>. Mist during the  
rest of the day, and rain all afternoon.

June 25<sup>th</sup>

Mist with short clear intervals till 17<sup>h</sup>.  
Summit clear thereafter - broken cum. f  
all around below and occasionally  
passing. ~~over~~

Foghorn seen at 18<sup>h</sup>.

June 26<sup>th</sup>

Thin fog or mist.

Temperature low today and falling at night.  
Lunar Corona at mid<sup>l</sup>.

Heard call of Ptarmigan at 4<sup>h</sup>. Also  
heard croak of Ravens in cliff.

June 27<sup>th</sup>

Fine throughout. but temperature very low  
in early morning being 27° 6 at 4<sup>h</sup>: rising  
during the day.

Air dry and very clear - visibility at times, 5.  
Took down the old Stevenson screen and  
mounted another - the one that had been  
at Halfway. Took readings in both  
boxes from 18<sup>h</sup> till mid<sup>l</sup> - those in large  
box being slightly lower - when the therm<sup>s</sup>  
in small box were brought in. Those in  
Big Box are Dry 1392449. Wet 1392450. Max  
(7.43.) Patent 2113. and min (adiv 4 Wedd) 324045.



1904 June 28<sup>th</sup>

172

Variable amounts of Cir, Cir-s and Cir-c on sky, radiating chiefly from NW and SE and moving from WSW. Decided rise in temperature today - the Max being  $49^{\circ}.0$  at 15<sup>h</sup> - mean  $42^{\circ}.3$ . Atmosphere became somewhat hazy in the evening. —

June 29<sup>th</sup>

Fine throughout: but rather hazy. Temperature still rising - Max  $53^{\circ}.7$  and Mean  $45^{\circ}.9$ .

Danous Cirri forms on sky moving today chiefly from S.

No snow at gauge today: but there is a good deal on the hill top yet - thawing quickly however.

June 30<sup>th</sup>

Fine and warm, but somewhat cloudy and very hazy throughout the day. Slight rain came on after 21<sup>h</sup>; and mist at mid.

The barometer was falling rather quickly between 21<sup>h</sup> and 23<sup>h</sup>; and at the latter hour the wind reached gale force.

Almost daily throughout June a pair of snow buntings have been seen on Summit. They begin to sing between 1<sup>h</sup> and 3<sup>h</sup> and keep it up till very late at night.



1904 Mr. Ewen McKinnon arrived here  
on 30<sup>th</sup> June to act as ~~assistant~~ 173  
July 1<sup>st</sup> telegraph clerk.

A cold day. Mist, except for a few hours in morning, with heavy showers of rain hail and sleet.

Robinsons Anemometer having been repaired was fixed up and set-a-going this evening.

July 2<sup>nd</sup>

Cold and misty with showers of rain and sleet.

July 3<sup>rd</sup>

Temperature still low 32° to 37°. Showers of sleet and snow throughout. At 7<sup>h</sup> the summit was covered with fresh snow. Sunny intervals between 9<sup>h</sup> and 14<sup>h</sup>.

Mr McKinnon reports having heard St. Giles's Fire at Plateau of Storms about noon.

July 4<sup>th</sup> Mist and drizzle throughout. Temperature low during the day, but rising at night.

July 5<sup>th</sup>

Mist and drizzle. The temperature readings are again peculiar, being high (over 40°) in early morning, low during the day (35°-36°) and high (over 48°) again tonight.



1904 July 6<sup>th</sup>

Mist all day. Drizzle most of the 174  
day and very heavy rain about midday.  
Temperature high all morning (max 47.3)  
but falling decidedly at night being  
33° at mid<sup>st</sup>.

July 7<sup>th</sup>

Mist all day. Showers of rain most of  
the day, icy hail, snow and sleet in the  
early morning. Temperature low and very  
steady.

To-day Messrs Bee and Bruce came up, and  
Mr. Rankin went down.

July 8<sup>th</sup>

Mist with continuous rain all day, temperature  
higher. Earth currents on wire at noon.

July 9<sup>th</sup>

Mist or fog all day with rain till 7 am, and  
again from 4 pm. onwards. Barometer rose  
all day. Earth currents noted between 10 and 11 am

July 10<sup>th</sup>

Very fine all day with continuous  
sunshine, Barometer and Temperature high.



1904

July 10<sup>th</sup> cont

175

Fog lay in the valleys all round up till noon and then commenced to disperse and was only observed in the distant valleys to meet at night.

July 11<sup>th</sup>

Very fine, Barometer and Temperature very high, maximum temperature  $64^{\circ}9$ . Westerly winds in the morning backing to south-east in the evening, and barometer commencing to fall. Fog in the valleys or on horizon all day, haze in the afternoon becoming dense at night.

July 12<sup>th</sup>

Very fine all day, Barometer falling, and Temperature lower. ~~Very~~ Hazy all day. Cum. fog appeared on the south-east horizon at 9 am and approached steadily till at 10 pm the summit was enveloped in mist.

J. Rennie the cook went down to-day.

July 13<sup>th</sup>

Mist with showers of rain till 6 pm, clear thereafter. South-easterly winds in the morning reaching gale force at 9 am, veering to south-west and decreasing in force, as the barometer turned upwards at noon. Thunder and Earth Quakes at 1:15 pm



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July 14<sup>th</sup>

Mist or fog or sky overcast all day, with showers of rain in the afternoon and at night. Strong south-easterly winds most of the day, reaching gale force at 5 and 6 p.m., receding at night.

To-day J. Macdonald came up to cook.

July 15<sup>th</sup>

Mist or fog all day, heavy rain up till 4 p.m. The barometer fell till 7 a.m. and then rose. Temperature steady during the day, low in the evening  $37^{\circ}3$  at 9 p.m.

July 16<sup>th</sup>

Mist or fog with barometer rising all day.

July 17<sup>th</sup>

Barometer rose all day, fine with air dry from 4 a.m. onwards. Fog in valleys all forenoon.

July 18<sup>th</sup>

Barometer high, falling at night. Very fine and warm with practically cloudless sky all day.



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July 19<sup>th</sup>

177

Barometer fell, winds South-easterly all day. very fine and warm, with almost cloudless sky most of the day, though somewhat hazy.

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July 20<sup>th</sup>

Fine in the morning with air dry & sky almost cloudless above with fog in valleys. Overcast in the afternoon, mist in the evening with showers of rain.

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July 21<sup>st</sup>

Cloudy with air dry from 15<sup>h</sup> to 19<sup>h</sup>, air saturated with fog or mist the rest of the day.

---

July 22<sup>nd</sup>

Air dry in the afternoon saturated during the rest of the day.

---

July 23<sup>rd</sup>

Pressure high, fog or mist all day with rain showers in the evening.

---

July 24<sup>th</sup>

Air dry till 22 hrs, cloudless in early morning cloudy thereafter. Fog all round below all day passing over summit at times in the afternoon.

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July 25<sup>th</sup>

Fog or mist till 19<sup>h</sup>, clouds or overcast thereafter  
air dry at 23<sup>h</sup> and mid-night.

July 26<sup>th</sup>

Clear with air dry all day. Fine though  
somewhat hazy weather. Fog below all round  
all day.

July 27<sup>th</sup>

Pressure rose all day, the wind was  
northerly in the morning and veered at  
9<sup>h</sup> to wards South-east. Sky almost  
cloudless till 14 hrs with fog below and  
passing over summit at times, overcast  
from 15<sup>h</sup> onwards, Fog at 22<sup>h</sup> and 23<sup>h</sup>.

July 28<sup>th</sup>

Air dry till 21<sup>h</sup>, cloudless in forenoon, cloudy  
or overcast till 21 hrs, fog thereafter. Light to  
moderate breezes chiefly south-east all day,  
the barometer rose till 15<sup>h</sup> and fell at  
night, the wind then increasing in force.

July 29<sup>th</sup>

Summit clear till 5 am, mist the rest of  
the day, with showers of rain in the  
afternoon.



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July 30<sup>th</sup>

Mist till 8 am, cloudy or overcast till 20<sup>h</sup>  
mist thereafter, showers of rain at 2<sup>h</sup> and  
at 21<sup>h</sup>.

---

July 31<sup>st</sup>

Overcast or Mist all day, with showers of  
rain. Temperature very steady. Earth currents  
on telegraph wire at 14<sup>h</sup> and 15<sup>h</sup>. Thunder  
and lightning at 22:17<sup>h</sup>, 22:22<sup>h</sup> and 22:39<sup>h</sup>.

---

August 1<sup>st</sup>

Overcast from 12<sup>h</sup> to 16<sup>h</sup>, Mist the rest of  
the day, with heavy rain in afternoon and  
evening.

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August 2<sup>nd</sup>

Mist all day, with a clear spell in the  
afternoon, heavy rain up till 11<sup>h</sup>.

---

August 3<sup>rd</sup>

Mist most of the day, clearing at mid night  
heavy rain between 11<sup>h</sup> and 22<sup>h</sup>.

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1904

August 4<sup>th</sup>

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Summit clear till 14 hrs. Mist with heavy showers of rain since.

Today Mr Miller and Mr Baxter came up and Mr Bee and Mr Bruce went down.

August 5<sup>th</sup>

Summit clear in morning and again at night. Occasional light showers of rain during the day. Fog in valleys all morning.

August 6<sup>th</sup>

Mist with rain in forenoon and again in evening over two tenths fell per hour at 23<sup>hrs</sup> and midnight.

August 7<sup>th</sup>

Mist or fog with heavy showers of rain during the day, clearing at times in the evening. Earth currents on Telephone Cable between 1 and 3 hrs.

August 8<sup>th</sup>

Sky almost cloudless till 6 hrs but fog in valleys which rose up and enveloped Summit during the rest of the day. Temperature steady between 40° & 36° all day.



1904

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August 9<sup>th</sup>

Frequent short sunny intervals during the day. Fog bow seen at 5 hrs

August 10<sup>th</sup>

Summit clear most of the day but sky very cloudy, but clearer after 2 hrs. Temperature low and steady range  $39^{\circ}8$  to  $35^{\circ}5$ . Two weasels seen near Table in forenoon

August 11<sup>th</sup>

Except for a little fog passing in afternoon, Summit has clear and air slightly dry all day. Temperature low and steady range  $37^{\circ}8$  to  $35^{\circ}0$ . Hoar frost on ground in morning and again at midnight. West Courts lights seen at 1 & 2 hrs

August 12<sup>th</sup>

Sky cloudless till 6 hrs. fog or mist since with slight showers of rain in afternoon. Hoar frost on ground till 4 hrs

August 13<sup>th</sup>

Mist with heavy rain all day. Temperature low in morning but rising during the day.



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August 14<sup>th</sup>

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Heavy showers of rain in morning and again in evening. A sharp heavy shower of hail fell between 17 & 18 hrs; also a peal of thunder heard at 17:19

August 15<sup>th</sup>

Temperature fairly high and steady during the day, but falling below 32° in evening with slight showers of snow. Heavy rain in early morning.

August 16<sup>th</sup>

Temperature low and steady. Slight showers of sleet hail and rain in forenoon

August 17<sup>th</sup>

Summit clear after 2 hrs but sky somewhat cloudy during the rest of the day. Set fog in valleys to S. & E. in morning but dispersing after 8 hrs. Hoarfrost on Observatory roof at 6 hrs. Today H. F. Rankin and A. Gys-dale came up and J. Miller went down.

August 18<sup>th</sup>

Sky cloudless at times till 11 hrs overcast or mist since. Slight haze around and set fog in valleys to N in forenoon.



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Hoarfrost on ground and on Observatory  
roof in early morning. Earth currents  
on Cable between  $14^{\circ}28'$  and  $15^{\circ}55'$ . A slight  
shower of sleet fell between 15 + 16 hrs  
H. F. Rankin went down today

August 19<sup>th</sup>

Fog or mist all day except for  
for slight breaks of short duration  
showers of rain in early morning.

August 20<sup>th</sup>

Fog till 20 hrs, summit clear and  
sky almost cloudless since. Dark banks  
of cloud low to W at mid. Slight showers  
of snow and sleet in morning.  
Temperature low all day, being at or  
slightly below the freezing point till 8 hrs  
Lunar Corona in evening

August 21<sup>st</sup>

Summit clear till 8 hrs but sky  
cloudy. Mist since with showers of rain  
and sleet. Temperature low in morning  
but rising during the day



1904

18<sup>4</sup>August 22<sup>nd</sup>

Sky almost cloudless till 4 hrs  
 fog off and on during the rest of the  
 day, with occasional slight showers  
 of hail. Hoarfrost on ground in morning  
 a. bysadele went down today and  
 J. Miller returned to observatory

August 23<sup>rd</sup>

Slight showers of sleet and rain  
 during the day. The observation at 18 hrs  
 was taken 10 mins late. No correction  
 applied

August 24<sup>th</sup>

Fog till 9 hrs. Cloudy till 18 hrs  
 Sky cloudless since. Temperature low  
 falling to the freezing point in the  
 evening. Hoarfrost on ground at 22<sup>nd</sup> 23<sup>rd</sup> & melt

August 25<sup>th</sup>

Sky cloudy with Ci-S and moving  
 quickly from E to W till 5 hrs. Fog or mist & ice  
 showers of sleet and rain after 14 hrs  
 a. Lunar halo seen at 1. 2 & 3 hrs. Hoarfrost  
 on ground at 2 & 3 hrs. Temperature low



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August 26<sup>th</sup>

Mist with heavy rain all day

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August 27<sup>th</sup>

Mist all day with occasional showers of drizzle. Temperature distinctly higher than that of the past week

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August 28<sup>th</sup>

Summit clear and air dry from 9 hrs till noon, but sky overcast. Fog or mist during the rest of the day with occasional slight showers of drizzle. Temperature high all day. Max 48°

---

August 29<sup>th</sup>

Summit clear after 15 hrs leaving sky Cloudless except for a little Cirro-Cumulus. Thick haze around horizon all afternoon. Temperature exceptionally high today range 45° to 50°

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August 30<sup>th</sup>

Temperature exceptionally high today range 47° to 58°. Sky Cloudless or almost so till 6 am. Fog till 10 hrs, Summit clear again till 16 hrs. Mist since with heavy rain. Thick haze around all day. Low lying fog in valleys to N + E in early morning. Today Mr. McKellor joined



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Cont.

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Came up to repair water tank at Wragg's well, which was leaking badly at joints

August 31<sup>st</sup>

A sharp fall of about  $5^{\circ}$  in temperature took place between 2 & 3 hrs, also wind veered from S.W. to N.W., accompanied with very heavy rain. Temperature continued to fall slowly during the rest of the day. Summit clear for a few minutes at 6 hrs, but sky overcast and fog passing. Today the fomer went down the hill having repaired water tank

September 1<sup>st</sup>

Mist all day with showers of drizzle

September 2<sup>nd</sup>

Mist with heavy rain till noon. Summit clear but sky overcast with low - S.W. till 2 o'clock. Mist twice with heavy showers of rain. A Solar Halo seen at 15 hrs

September 3<sup>rd</sup>

Heavy showers of sleet during the day. Temp fell  $3^{\circ}$  between 10 & 2 hrs accompanied with change of wind from S to N fairly steadily during the rest of the day



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September 4<sup>th</sup>

Barometer falling all day, rapidly in evening. Wind backing in afternoon to SSE and blowing a gale all evening. The anemometer recording 68 miles per hour. Heavy rain all evening.

---

September 5<sup>th</sup>

SSE  $\frac{1}{2}$  gale continued till 4 hrs moderating but squally and very variable during the rest of the day. Very heavy rain all day. Today Mr Lucas came up to act as observer.

---

September 6<sup>th</sup>

Exceptionally heavy <sup>fall of</sup> rain in early morning. During the first three hours almost one inch of rain fell, at 2 hrs 0.541 inch was registered. Summit clear for a few hours in the middle of the day, but mist with showers of rain again after 15 hrs.

---

September 7<sup>th</sup>

Short sunny intervals during the day. Slight showers of rain in early morning and sleet and hail in the afternoon. Earth currents on Cable between 10 + 11 hrs



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September 8<sup>th</sup>

Squally winds all day, S<sup>2</sup> to SE<sup>2</sup>  
in forenoon varying to W and NW since  
showers of sleet and drizzling rain  
almost all day

---

September 9<sup>th</sup>

Squally variable winds with heavy  
showers of hail sleet and drizzling rain  
Temperature low in morning falling to  
32° at 7 hrs but rising during the day

---

September 10<sup>th</sup>

Squally ratherly winds in forenoon  
falling away since. Fog or mist <sup>nearly</sup> all day  
with showers of rain. Temp low & steady.  
Today Mrs Miller went down

---

September 11<sup>th</sup>

Summit clear all day till sunset after  
which it became enveloped in ~~mist~~ <sup>fog</sup>. Sky  
cloudless all day except for a little cir-  
cum. in afternoon. Temp. low in morning rising  
till 16<sup>th</sup> hr and then falling. Wind calm all  
day but rising to a gale since sunset  
~~fog caps the gale.~~



September 12<sup>th</sup>

189

Summit enveloped in fog or mist all day. South easterly winds all day of moderate strength in forenoon increasing all afternoon to a gale of 74 miles p hr at midnight. Fair all day until 22<sup>nd</sup> hr when rain set in. Temp. low all day increasing in evening. Bar. falling steadily all day. Fog lifted & sun in morning & hunting during gale

September 13<sup>th</sup>

Strong south easterly gale until about 4 a.m. Rain all morning and forenoon till about 2 p.m. when sun broke out and a fine afternoon & evening resulted. Temp. fairly low & steady

September 14<sup>th</sup>

Summit clear all day. Light south easterly winds. Temp. fairly high & showing good range.

September 15<sup>th</sup>

Summit clear till 11 a.m. when it became covered in fog. South easterly winds all day increasing in forenoon & night. Temp. fairly high & steady



September 16<sup>th</sup>

Summit enveloped in mist all day. Strong  
S.E. by wind all day blowing 98 miles/hr  
at 4 p.m. and decreasing in strength since.  
Bar. pumping nearly all day. Temp. high &  
increasing all day \_\_\_\_\_

September 17<sup>th</sup>

Summit enveloped in mist till 9 a.m.  
Clear since but hazy. Strong S.E. by winds  
all day with rain in morning. Fair since  
Bar rising. Temp. high & steady  
Today Mr. McKinnon went down \_\_\_\_\_

September 18<sup>th</sup>

Summit enveloped in fog till 6 a.m.  
Clear since but hazy. Mod. S.E. by winds  
all day. Bar & temp. high & steady \_\_\_\_\_

September 19<sup>th</sup>

Summit clear all day. Thick haze all round  
in valleys. Wind S.E. by & moderate in strength  
Bar & temp. high & steady.  
Today Mr. W. Rankine came up to take  
Mr. McKinnon's place as telegraph clerk \_\_\_\_\_



September 20<sup>th</sup>

Summit clear all day but view hazy

Wind SE  $\frac{1}{2}$  Moderate strength

Bar high & steady. Temp high & steady  
Atmosphere exceptionally dry.

Shadow of hill seen on huge bank at 6 a.m.

Sunshine recorder not working well about  
 $\frac{1}{4}$  hrs not recorded.

September 21<sup>st</sup>

Summit clear all day till 8 p.m.

then fog began to break summit. View  
hazy. Wind moderate SE  $\frac{1}{2}$ . Bar high

& steady. Temp high & showing good range

Shadow of hill ~~seen~~ seen on huge bank

at 6-30 a.m.

Sunshine recorder still not working well.

~~Bar~~ ~~unreliable~~ all put right

September 22<sup>nd</sup>

Summit clear most of day but foggy

in morning & slightly so in evening. View hazy

Wind light & calm E  $\frac{1}{2}$ . Bar exceptionally

high & atmosphere exceptionally dry. Temp

fairly high & showing good range.

Shadow of hill seen on huge bank at 6.30 a.m.



September 23<sup>rd</sup>

Summit clear all day. Wind NE<sup>2</sup> light  
to calm with slight breeze. Bar exceptionally  
high but falling towards night. Temp  
fairly high & showing good range. Atmosphere  
exceptionally dry

---

September 24<sup>th</sup>

Summit clear in morning but fog since 2 p.m.  
Atmosphere exceptionally dry until fog came on.  
Temp. falling all day and bar. also falling  
Wind variable, light to calm.  
Today Mr. Miller came up.

---

September 25<sup>th</sup>

Summit enveloped in fog or mist nearly all day  
Bar falling. Temp low & fairly steady. Wind SE  
light to calm.  
Today Mr. Miller went down the hill

---

September 26<sup>th</sup>

Fog or mist all day Wind var light to calm  
with showers of rain sleet & snow. Temp low  
& steady Bar falling till 5 a.m. rising since.



September 27<sup>th</sup>

Summit enveloped in fog or mist all day. Wind over light to calm with rain Temp fairly high & steady. Bar rising all day

September 28<sup>th</sup>

Fog or mist all day until 6 p.m.

Clear since. Light SW<sup>ly</sup> winds or calm Temp. fairly high & steady. Bar rising all day. 22<sup>nd</sup> obs. taken at 10-15 p.m.

September 29<sup>th</sup>

Summit clear till 3 a.m. Fog or mist clearing at intervals till 10 a.m. Clear again till 6 p.m. when fog settled down once more Wind SSW, light in morning increasing in force towards night. Hoarfrost on ground before 3 a.m. Glory seen at 10.30 a.m. on W Ridge Bar pumping since 7 p.m.

Temp fairly high & showing good range Bar falling all day. Today M. Christie came up & went down again At 21 hrs mm Therm. had been shaken by wind so that lowest reading was taken for newspaper reports



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September 30<sup>th</sup>

Fog or mist all day. Strong SW'y winds with heavy rain in morning. Snow in evening. Bar. falling ~~fast~~ ~~up~~ ~~down~~ ~~steadily~~ all day & fluctuating considerably. Temp. showing good range.

Today Mr Rankin & Mr Miller came up.

October 1<sup>st</sup>

This forenoon the Barometer stood at about 25 inches, the Temperature ranged from 30° to 33° the wind was W to NW, blowing about 10 miles an hour snow was falling, and mist enveloped the summit.

By command of the Directors the observations were discontinued at this Observatory after the noon readings were recorded.

Angus Rankin



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Penn. River Observatory  
 Log - Book  
 No. 8

1902

November 6<sup>th</sup>

Thick mist or fog all day, with drizzle  
 in morning. Several insects seen  
 all day and flying a good deal after 2 P.M.  
 Temperature at 1 P.M. 50°. The wind was  
 light and from the S.W. and E.  
 Washed the engine and water today.  
 The engine and water were for the engine  
 and that a small shaft changing gear  
 the gear wheels was broken both of  
 them to be repaired.

Weather very all morning. At 1 P.M.  
 had to go outside, so the temperature  
 was from above them in lower light  
 and gave a correction of 1° and  
 was applied to the readings.

Wind from ESE by 11<sup>th</sup> and then a  
 light S.W.  
 By 11<sup>th</sup> day. Some snow fell in evening  
 for crystals forming in forenoon.  
 At 11<sup>th</sup> rain at 30° and 40°.























































































































































































































































































































































































































