

1897
Ben Nevis Observatory Log Book 1
Vol. 6

August 23rd

Summit clear but sky cloudy and fog below chiefly to E and S. till 10th. Thin mist or fog during the rest of the day.

Snow-Bunting seen at 7th.

Mr. Rannin arrived at Observatory today.

August 24th

Thin mist or fog except at 2th 3th and 4th when summit was clear and sky nearly cloudless.

Mr. McDougall left - Obsy. today for L.L.O.

August 25th and 26th

Thick mist or fog with strong E or ESE winds both days

August 27th

Clear most of the day.

August 28th Mist and drizzling rain all day

August 29. Mist all day. Strong ESE^{ly} wind at night.

August 30th Mist and heavy rain. Squall ESE wind all forenoon backing to SW in afternoon

August 31st Mist or fog & Showers.

Mr. D.M. Aitken arrived & Mr. Edwin left today

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September 1st

2

Mist most of the day. In the clear intervals in morning sky above at times clear, but in evening overcast.

September 2nd

Shady fall in temperature all day. Mist all day. Hail sleet and snow in evening. Anemometer tied after 20th

September 3rd

~~Fog and showers of snow.~~ Heavy fall of snow in morning, and showers in evening. Temperature low all day.

September 4th

Clear and almost cloudless till 4 am. Fog or mist during the day.

Gleazed frost forming at night.

Anemometer going from 9th till 20th

September 5th

Summit enveloped almost all day.

Temperature somewhat higher.

Anemometer started at 9th

September 6th

Clearing at night.

Ravens croaking in cliff at 15th

September 7th

Frequently clear, and air slightly dry.

Lunar coronas and a lunar fog bow seen at night

1893 September 8th

3

Summit clear. Sky cloudless till 8^h.
Air moderately dry, and very clear. In early morning the W. coast lights were seen from S of Jura to S of Skye.
Anemometer frozen in forenoon and again at night.

Lunar coronas and foghorns seen from 20^h till 22^h.

September 9th

Summit clear. Sky cloudless in morning and late at night.

Air exceptionally clear to W. - Outer Hebrides very distinct in evening.

Lunar Foghorn and corona at 2^h and a Lunar Halo at 21^h.

Anemometer frozen in morning and at night.
Cirrus clouds lying SW-NE at 20^h. at 21^h they lay WSW-ENE.

17^h observation taken at 17^h 20^m - no correction applied to the readings.

September 10th

Summit clear: Thick haze came on very quickly this morning with a West^{ly} wind. At 4^h visibility was 5 - at noon 1.

Solar Halo seen at 15^h and 16^h.

Mr. S. M. Aitken who has been assisting here exchanged places with Mr. A. Aitken observer at the Half Way Station. this evening.

Tried to photograph
Halo on 7th Oct. at
Summit

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September 11th

4

Summit clear, and thick haze descended all around below, with fog here and there on top of haze hill Hatts. Thick fog or mist thereafter.

September 12th

Mist with rain or drizzle. Linnaröna 22nd

James Cumming left today.

September 13th

Temperature rising all day yesterday high and steady today.

Most of Barometer readings (Corrected) today have been above 26 inches.

Clearing in afternoon.

W. Stewart staying at Observatory to night

September 14th

Mist most of the day - clearing in forenoon. The large dust-counter was remounted today, after having been repaired by Mr. Aitken of Falkirk, and observations were occasionally made.

The 20th observation was 5^m late - no corrections applied

Mr. J. Neil returned to Observatory today

September 15th

Mist and drizzling rain, ~~clear~~, ~~is~~

Temperature falling.

September 16th

Drizzling rain sleet, hail & snow - about 1/2 inch lying on ground at night.

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September 17th

5

Fog or mist most of the day.September 18thFog and showers of snow.September 19th

Fog till 7^h clear and sunny ~~till~~ during the day. Mist and drizzle late at night. Trace of Solar Halo at 15^h.

September 20

Mist till 4^h Clear thereafter till 17^h. In evening the clouds to W^d and NW^d gradually thickened and lowered capping hills. This thick cloud gradually spread Eastwards, and enveloped Summit at and after 18^h. as mist with heavy drizzling rain at night.

At 17^h the Number of dust particles per c.c. was 200, at 23^h it was 0.

Mr Dm Aitken returned to this Observation
And Mr. A. Aitken went down to Halfway⁸
Station Photo of peculiar cloud taken.

September 21st

Mist all day with heavy rain in early morning and frequent showers of sleet in evening.

Very low dust values at night.

Mr. Harper plumber soaked tower and kitchen chimneys today

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September 22nd

6

Mist all day with rain hail sleet & snow
Sleety snow on ground in morning. and dry
snow at night Low Dust Values.

September 23rd

Very heavy rain. especially in early afternoon
when over one inch fell between noon and 15th

September 24th

Heavy showers of rain hail and snow.
20th obs one min. and 22nd three mins late

September 25th

Mist - Fog. and heavy rain, Strong
Squally Southwesterly winds in evening.

September 26th

Mist all day. Heavy rain in forenoon
and showers of snow in evening.

Snow Post "A" having been blown down
last winter, another was put up in the
same place today.

September 27th

Slight covering of snow on ground
this morning. Summit clear at 9th when
a glory was observed.

September 28th

Mist all day with heavy rain at
night. Mr. D. Grant arrived at observatory.
The P.O. telegraph line man came up
with new telephone, & set it up today

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September 29th

Mist and showers of rain all forenoon. Summit clear after 17^H & remained so for the rest of the day.

September 30th

Sky cloudless almost all day. Str-f. on hills all round, rising occasionally and flowing over summit.

October 1st

Continuous fog all round below about 4000 ft. rising and enveloping summit after 5^H. Clear again after 16^H and remaining clear for the rest of the day, clouds hanging low, and patches of lying among hills all round.

The Refreshment rooms on summit were closed today for the season.

Today Messrs A. Rankin, D.M. Aitken & William Rankin left the observatory and Mr R. H. Macdonald came up. The Aurora was observed at 20^H.

October 2nd

Clear till 8^H ~~the~~^{mist} the rest of the day

October 3rd

Mist all day, slight showers of sleet and drizzle about mid-day.

Two snow buntings were seen at Ob. dot at 6^H.

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October 4th

8

Fog at 1st & 3rd. clear the rest of the day. Fog on hills and passing over summit at times in the evening.

A solar halo was observed at 16th and a lunar corona at 19th.

October 5th

clear till 6th Fog thereafter. Strong squally S. or S.W. winds, moderating towards night. Barometer pumping from 1st till 20th.

October 6th

Fog with occasional breaks till 20th clear thereafter.

Anemometer tied at 3rd untied at 10th and tied again at 21st. Lunar corona at 19th.

October 7th

Clear at 1st but fog passing. Fog or mist the rest of the day, with heavy rain after 16th.

Anemometer untied at 10th.

October 8th

Mist, Fog & showers of rain, sleet and snow during the day. Squally W^{ly} winds in morning, veering to N^{ly} in the afternoon.

Barometer pumping all forenoon

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October 9th

9

Fog or Mist, Temperature pretty low but rising slowly all day. Sleet & drizzle fell during the day. Glazed frost from 7th till 10th.

October 10th

Squally Wth winds till 16th veering to N + NE at night. heavy rain, sleet and snow throughout the day.

Barometer pumping slightly all forenoon

October 11th

Squally N. or NE^{ly} winds all day Glazed frost at 2nd & 3rd. Snow fell heavily from 6th till 20th, and lay to a depth of 4 inches at night. Two Ravens seen at 7th.

October 12th

Fog more or less all day. Some showers of snow fell during the day.

Barometer pumping slightly most of the day. Ravens seen flying about Buckets stage at 9th.

October 13th

Clear from 5th till 10th fog till 18th and clear thereafter.

Lunar coronae were seen at 19, 20, 21 & 23rd and a lunar Fog-bow at 20th.

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October 14th

10

Fog lying over Lochsail, Laggan and Lochy all morning, dispersing in afternoon, Lunar coronae at 1, 2, 4 & 5th Hrs.

At 7th the dry & wet thermometers {192677 and minimum 1108531^A were put into a box on ladder stand N^o 2, and read hourly with Stevenson screen, the fresh thermometers being used for the daily sheet.

Weasel tracks were seen at cairn this morning & Raven seen flying about E. end.

October 15th

Strong ESE winds, increasing in force to that of a strong gale at noon, veering to S, and moderating in force towards evening. Heavy showers of snow fell in forenoon. The rain gauge was not shifted from 9th till 14th, the values for these hours being interpolations.

The tower screen was in use from 10th till 13th (incl).

At 17th the cups of the Robinson anemometer were taken in. Bar. pumping 1st to 16th.

October 16th

Temperature rose well above the freezing point today. Fog or mist all day except for a few hours in the evening when sky was overcast.

Heavy showers of rain fell during the day.

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October 17th

11

Strong squally S & SW^{ly} winds all day.
Mist and heavy rain.
Barometer pumping heavily all day.

October 18th

Mist all day and heavy showers
of rain till noon.
Barometer pumping all day.

October 19th

Mist or fog, with sleet & drizzle
till 6 A.M. Buntings heard singing at 7^H

October 20th

Mist till 4^H clear thereafter and
cloudless after 10^H. Some fog about hills
to S & W, and slight haze in valleys in
the evening. Solar halo at 15^H

Oct. 21st

Sky cloudless all day. Thin haze
in valleys to E, SE, & SW. 96% of the possible
sunshine was recorded. Mean humidity 53
a. Raven was seen at 7^H

October 22nd

Cloudless. a slight haze in
valleys all day. The mean temperature
for the 24^{hrs} was 48.4, and 95% of the
possible sunshine was recorded.

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October 23rd

12

Cloudless again today. Haze in valleys all morning, & fog forming on hills all round in afternoon, occasionally passing over summit at night.

October 24th

Sky cloudless, fog on hills all round below, and sinking into valleys towards midst.

Three men, members of the Scottish Mountaineering Club ascended the Ben today by the NE buttress, and descended by way of the Tour Ridge.

Three Ptarmigan were seen on M^r Lean sheep at 15th 20th.

October 25th

Clear and cloudless all day. Some fog on hills to E & S all day and haze in valleys all round. clouds forming above horizon towards midnight. Raven and snow-bunting seen on top this afternoon.

October 26th

Sky slightly clouded all forenoon, but cloudless again in evening.

Haze in valleys all day, getting much thicker towards night, and at midst the summit was enveloped in fog.

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October 27th

Fog till 11^h. Clear, sky partly
clouded till 20^h. Fog again since

13

October 28th

Thin fog capping hill all day.

October 29th

Clear almost all day.
Thick haze in valleys all round and
patches of fog on hills to S + E

October 30th

Mist and heavy drizzle
all forenoon. Clear at and after
16^h, showing continuous fog below
to about 4000 ft, rising towards night
and enveloping summit after 22^h

October 31st

Clear at times during, but air
saturated all day owing to passing.

The temperature, which since the
15th of the month ranged from 33°
to 52°, is still above the freezing
point; the reading at mid^E being 34.9

About 60 persons visited the obsy.
During October

1897 November 1st

14

Clear and air slightly dry most of the day. Fog on hills to S + haze in valleys all round.

Lunar coronas at 20^h + 22^h 17²⁰

November 2nd

Summit clear, sky almost cloudless and air dry all day.

Haze lying low in valleys, and small patches of fog on hills to S + E.

The 1st Observation was started at 1^h 4^m

November 3rd

Absolutely cloudless all day. Hoar frost in valleys in early morning; The air has been very clear and dry throughout the day, the humidity ranging from 30 to 37; (99% sunshine recorded today)

Three ravens were seen flying about the summit in the afternoon.

November 4th

Cloudless all day, air very dry the humidity being as low as 28 for a few hours about mid-day.

Fog & haze in valleys all day.

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November 5th

15

Sky still cloudless and continuous fog all round below, only a few of the highest peaks being seen topping the fog at times during the day.

Shadow of Ben with glory at 8th and glories seen all morning

November 6th

Clear and cloudless till 8th after which, the fog, which had been rising gradually all morning, enveloped the summit, clearing a little in afternoon, and at 13th & 14th the air was slightly dry.

November 7th

Strong ESE^{ly} winds and fog all day
Bar pumping all day.

November 8th

Mist all day and showers of sleet and rain in forenoon. The strong ESE^{ly} wind which ~~blew~~ blew yesterday continued throughout the forenoon today but moderated towards evening. Bar pumping till 17th

November 9th

Mist till 4th, clear most of the day thereafter. Fog on hills to E + S, and thick haze in valleys.

Lunar corona at 20th

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November 10th

16

Clear from 2nd till 8th, Fog or
Mist the rest of the day, & rain at night.
Lunar halo at 4th + 5th

November 11th

Mist or fog all day, and
showers of rain in forenoon

November 12th

Temperature high and steady all day
with heavy rain in forenoon

November 13th

Mist with showers of rain.
Temperature falling steadily all day.
The observation at 15th was taken 4th later
no correction applied. Today Mr
J. Miller and Mr Buchanan telegraph
line-man came up, the latter
to fix up generator for Telephone.
Robert M. Longwell went down to
Low Ledge. Snow beginning seen
on Observatory roof at 12th

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November 14th

17

Temperature falling all day
 33°3 to 13°0. Between 8 + 9^{hrs} a quick drop
 of 6° took place and wind began
 to rise veering from W. to N and
 in afternoon very strong and squally
 Heavy showers of snow between 6 am
 and 4 pm and a good deal of
 drift. After 21^{hrs} Summit cleared
 but sky pretty cloudy and fog passing
Sun or Corona seen at midt

November 15th

Fog till 8 am. Summit clear and
 sky slightly clouded with cool till 21^{hrs}
 fog thereafter. Air dry at times in the
 afternoon. Snow seen in N cliff at 9^{hrs}

November 16th

Fog or mist all day except at
 2, 13, & 15^{hrs} at these hours sky was overcast
 with hard packed low stratus, ugly appear-
 ance all round. Temperature rising all
 day. a good thaw set in after 10^{hrs}
 with heavy rain. Fog crystals forming
 all morning. A Sun or Halo seen at 2^{hrs}

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November ~~16th~~ ^{17th}

18

W. or WSW winds somewhat squally all day. Temperature fairly high rising till 9^{hrs} 39.2 falling slowly since and 32° at midn. heavy showers of rain till 7^{hrs} and again showers of rain after 21^{hrs}

November 18th

Fog or mist with showers of snow sleet & rain. Barometer pumping slightly all day

November 19th

Squally W. or NW winds all day with continuous heavy rain. Barometer pumping in forenoon.

November 20th

Temperature fairly high & steady range 38° to 33°. Heavy rain till 8^{hrs} & occasional showers there after

Barometer pumping at 11^{hrs}. Summer thermometer got in use again at 1st. Put out N^o by 535541 wet 535542
 Max 117298 Min 116913

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November 23rd

19

Slight showers of drizzle sleet
+ hail till 15^{hrs}. Barograph changed
at Hut today. The following reading
of dry & wet taken at 15th 45th dry 38.8 wet 38.1

November 24th

Summit clear at 16+17^{hrs} but
sky overcast and fog all round below
to 4000 feet

November 25th

Summit clear and sky
apparently cloudless at 12+13^{hrs}
pretty cloudy at 14^{hrs} fog thereafter
Fog on hills all round to level of
Summit and passing frequently during
these hours. Ther Bar put out
on No 1 stand. No^o put out dry 192677
wet 192672 & Wm 1108531 A

November 26th

Showers of snow sleet & rain
during the day. Barometer pumping
till noon

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November 27th

20

Showers of snow & sleet almost all dayNovember 28th

Barometer falling rapidly in forenoon but rising in the afternoon. Variable squally winds chiefly W & till 10th and N or NE & since. Heavy showers of snow almost all day and a considerable amount of drift blowing about towards evening.

Rain gauge not in use after 20th. The measurements of amount at 21, 22 & 23 being interpolated. Gauge put out again at Melt. (Sunday) The daily weather report was not sent off this evening. Telephone not working. Barometer pumping heavily after 16th.

November 29th

Thin fog in afternoon and sun gleaming at times. Slight showers of snow throughout the day. B.B. Max No 186 found broken. Lunar Coronae seen at 17th. Telephone still out of order. No report sent this evening. Dry & wet Bulb 50 inches depth of snow at Post A 6 inches

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November 30th

21

Temperature rising quickly
 till 3¹⁷ 31°3 falling steadily since
 21.4 at midn. Heavy showers of snow
 all day. Mr Buchanan F. W^m
 Telegraph Lineman came up today
 and overhauled Telephone
 but could not be sure what was
 wrong with Instrument. He thought
 that Primary Coil of Telephone
 had been damaged by lightning
 No weather report sent this evening
 depth of snow on Summit is now
 13 inches. Some weather ~~along~~ near
 cliff ranging from 2 to 5 feet

December 1st

Fog till 9⁴⁵ Summit clear
 and sky almost cloudless and
 air slightly dry till 13⁴⁵ Fog passing
 at 14⁴⁵ Continuous fog since. A
 good deal of surface drift all afternoon

- Box changed at 11:15^h by 535541 22
Same Min out rig 110853 A. wet - 42

Height above ground 42 inches. Depth of Snow - 14 in.
Today Mr Grant Ocean Telegraph Lineman
came up to repair Telephone and
stayed over night. The fault in
Telephone was found to be due to
some of the connections on back
board of and immediately behind
Primary Coil of Telephone to have been
loose. The daily weather report this
evening was sent off by using
receivers as transmitter & receiver
in the following way. Receiver¹ was
joined to Line and earth wire
direct. and worked splendidly

December 2nd

fog till 13^h Summit clear but
sky pretty cloudy the rest of the day
with Cum-Cum and Cum-Stratus. Air
very dry after 19^h the humidity
ranging from 51 to 24 at night

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December 3rd

23

Air very dry at times till 4^{hrs}
 Lowest humidity being 23 at 1^{hr}
 Air sat and fog then after. Slight
 Showers of snow fell after 14^{hrs}
 Glazed frost after 22^{hrs} Mist and
 rain falling Temperature between 29+30 deg

December 4th

Fog or mist with slight showers
 of snow and drizzle till 5^{hr} thereafter
 Summit clear and sky about half
 covered with cir and cirro-stratus and
 det fog on hills around till 18^{hr}
 Fog since. Air dry from 9 till 16^{hrs}
 Glories seen at 10^{hrs} Luman coronae
 seen after 19^{hr}. Thermometer not changed
 at 8:10 No^{ts} put out by 192677 bet 192672
 Same min. put out again.
 Height of dry sheet above snow 100 inches
 a tourist up today

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December 5th

24

Fog or mist all day with showers of snow, sleet, and drizzle. Fog crystals forming all morning. Brownish in color.

December 6th

Summit clear occasionally between 3 and 9^{hrs} but sky overcast or nearly so. Heavy showers of snow fell after 10^{hrs}. Lunar coronae seen at 1+2^{hrs}. Bar changed at 4.10^{hrs} but same thermometers left out. Height of Dry & Wet Bulbs above snow 37 inches.

December 7th

Barometer falling rapidly all day strong squally variable winds chiefly W^{ly} with heavy showers of snow sleet hail and rain. A good deal of drift blowing about in early morning. Depth of snow today 16 inches. Bell of Telephone ringing frequently during the afternoon: due to Earth currents.

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December 8th

25

Barometer falling till 20th rising slowly since. Summit clear at 6th but sky overcast, and sky dirty and gloomy looking to E.W. Very squally westerly winds all day heavy showers of snow and hail throughout the day. Strong Earth currents in Telephone all day. Thunder and lightning between 4 + 5^{hrs} = depth of snow 18 inches

December 9th

Temperature steady all day, there being rather less than 2° range. Squally N^E winds, with heavy showers of snow all day. Barometer falling. Depth of snow 28 inches. Thermometer raised one step up on ladder at midt. Height above snow 56 inches

December 10th

Calm or light N^E winds till 4^{hrs} backing to SE & E after 9^{hrs} = increasing in force and blowing a strong breeze all afternoon, moderating towards midt again. Light showers of snow during the day

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December 11th

26

Light N² breezes all day, with occasional light showers of snow

December 12th

Summit clear at times in the evening and sky apparently nearly cloudless but fog on hills all round and passing. Slight showers of snow fell till 9^{hrs}. Aurora seen at 20^{hrs} and a Lunar Corona at 22^{hrs}. Thermometer Bot changed at 19^{hrs} 10^{hrs} by 535541 wet 535542 and same Win put out

December 13th

A strong pale spray up from the SE after 3^{hrs} (from 8 to 9) moderating in force after 8^{hrs} but again increasing after 20^{hrs} and blowing from 90 to 100 miles per hour about Milt. Tower Bot in use after 20^{hrs}. No correction applied to its readings. Duplicate readings having been taken during the day. The Tower Bot never differed more than 0.1 from Stevenson screen. Slight showers of snow fell in early morning and afternoon. The measurements of amount of snow at 5^{hrs} and Milt were interpolated

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December 14th

27

SE gale of last night continued till 2^{hrs} moderating in force somewhat and wind veering to SW till 7^{hrs} backing again to S or SE and blowing pretty briskly during the rest of the day. Summit clear at times after 10^{hrs}. The hill top after the gale this morning resembles very much like a ploughed field there being a series of ruts and ridges. The depth of snow-drift is 24 inches being ~~12~~ 8 inches down from yesterday. Tower Bot in use till 3^{hrs}. No correction applied. Measurements of amount of snow at 1, 2, & 3^{hrs} are interpolations. Stevenson Bot changed at 12:15 by 192671 but 192672 same man put out height of Bulbs above snow 54 inches

December 15th

Strong SE⁴ winds till 5^{hrs} moderating and wind veering to W or NW. Fog all day with showers of snow after 8^{hrs}. Fog crystals (Brown in color) forming all morning. A man up today with letters etc

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December 16th

28

Strong S-E winds all day rather
equally towards midt. Temperature
rising steadily all day; a good thaw
set in after 10^{hrs} range $25^{\circ}.4$ to $34^{\circ}.4$.
Summit clear at 1^{hr} but sky almost
overcast. Heavy showers of hail
sleet and rain fell in afternoon.
Barometer pumping all day.
Strong Earth currents in Telephone
during the day.

December 17th

Temperature above freezing point
almost all day, but on S-E winds all
day very squally in the ~~afternoon~~
forenoon. Mit all day with showers
of hail sleet and rain. Barometer
pumping till noon. Depth of snow
totl 21 inches. being 3 inches down

December 18th

Fog till 11^{hrs} sky alm out cloudless since. Air
very dry all afternoon. Range of Humidity being 23 to 37
Slight showers of snow fell between 5 & 9^{hrs}. Thermometer
Box changed at 12.10. No^s by 535541 to 535542. Same min
put out. Height above snow 55 inches

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December 19th

A very fine day. Sky cloudless and air very dry all day. Lowest humidity 26 at 1^{hr}. Temperature above freezing point all day and being higher on Summit than at Sea Level. Haze near horizon and some fog in valleys to E all day. Snowfall very bright at 7^{hrs}. Shadow of Ben seen at 9^{hrs}. Horn first on ground at Sea Level to fully 100 feet

December 20th

Thin fog passing all day but sky apparently cloudless. Weather much colder than yesterday and air dry occasionally. Storms and fogbows seen frequently during the day. Aurora seen at 17, 18, & 19^{hrs}. Strong Earth-currents in Telephone in the evening

December 21st

Fog till 3^{hrs}. Sky cloudless and air pretty dry since. Lowest humidity 22 at 22^{hrs}. Somewhat hazy near horizon and det cum fog on hills to E + SE all day. Aurora seen at 3 + 4^{hrs} and again from 9^{hrs} till night. Horn first at Sea Level to 100 feet. The shadow of Ben seen at 9^{hrs}

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December 22nd

30

Sky cloudy and air very dry all day
The humidity ranging from 18 to 49.

Fog lying over Lochiel and Lochlochy and
haze in valleys all day. Aurora
seen from 1 to 5 ^{hrs} and again from 19 ^{hrs}
till midn. Shadow of Ben seen at
9 ^{hrs} a Raven seen at Bucket stage at 15 ^{hrs}

December 23rd

Sky cloudy or overcast with Cirro-Cum and
Cirro-Str and moving pretty quickly from
the SW in afternoon. Haze in valleys
all day. Barometer falling but Temp
still keeping fairly high and air very
dry all day; the humidity ranging
from 19 to 67. Hoar frost on ground
at Sea Level to 500 feet

December 24th

Summit clear most of the
day; but sky overcast or cloudy with Cirro-S
and Cirro-Cum. Air dry all day except
for a few hours in early morning and
again in evening. Lowest humidity
41 at 17 ^{hrs}. Thick haze in valleys and
Cum. fog on hills in distance all day
Aurora seen at 21 ^{hrs}

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December 25th

31

Temperature fairly high all day. being at or above 32° from 7^{hrs} till 16^{hrs}. Air Sat
Moderate breezes all day chiefly SW²
Slight showers of rain & drizzle fell after 10^{hrs}

December 26th

Very heavy rain in afternoon. At 14^{hrs}
0.730 fell and 0.637 at 15^{hrs} and from 16^{hrs} till 19^{hrs}
inclusive fully three tenths fell per hour. Temperature
rising all day, and high and steady
all afternoon between 37° & 38° . Strong
squally S or SW² winds all day.
Barometer pumping almost all day

December 27th

Fog or mist all day except at 8 & 9^{hrs}
but sky overcast. Shower of rain till 3^{hrs}
Slight showers of snow and drizzle since

December 28th

Squally W or SW² winds with heavy
showers of snow almost all day. Depth of
snow at 15^{hrs} 2.5 inches being 7 inches up since yesterday

December 29th

Temperature rose quickly 5° between 10 & 11^{hrs}
A good thaw all afternoon. Strong squally
winds all day chiefly ~~S~~ SW². St Elmos Fire
and lightning seen at 2^{hrs}. Today Mr Wilton

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Came up to take duty and barom 32
Grant went down to L.L.O

December 30th

S or SW winds all day strong and very squally. Heavy showers of rain and sleet till 5^{hrs} occasional showers since.

Mist or fog almost all day. A sudden drop in temperature occurred between 9 & 10^{hrs} from 31.5 to 26.4 remaining pretty steady thereafter. Barometer pumping a good deal all day.

St Elmo's Fire seen at 1^{hrs}

December 31st

Fog all day with heavy showers of snow. Today 3 Members of the Scottish Mountaineering Club climbed a gully west of the Tower Ridge.
The visitors up during December

There has practically been no change on previous years in the instruments used, nor in the methods of observing.

The Instruments in use have been—

Barometer 1385. (No. 1285 is in good order)

Dry 192677 and ⁵³⁸⁵⁵⁴¹ with minimum 1108531A in
Wet-192672 ⁵³⁵⁵⁴¹

the small form of Stevenson Screen up till May 16th and since October 14th on ladder stand. And during the summer months the following sets were exposed in the large form of Screen 4 ft above the ground. namely: either of the above sets of Dry and Wet bulbs with Maximum 117293 and minimum 116918.

Richards self registering aneroid has been in use.

Black Bulb No. 186. has been in use, chiefly in summer.

Robinson's Anemometer was mounted on May 16th and taken in on October 15th.

The Storm Thermometer was in use in very stormy weather.

Campbell-Stokes Sunshine recorder has continued in use. Its slate base is getting rather chipped. During the Spring months the Depth of snow was measured at the temporary

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34

Just referred to in last year's summary
~~Observations~~ A New post was put up in
the exact place where A. had been
in September, and the depth this
winter so far has been measured
there.

During the summer the Dust Counter
had been away for repairs. It was
re-mounted on September 14th and
observations made for several weeks:
but it fell into disorder again
in October.

A few photographs have been
secured by means of the Observatory
Camera.

Hilger's Pocket Raman Spectroscope
has been in daily use.

There has been no serious break
in the routine of observing. There has
been about the usual number of
observations taken a few minutes
late; and the rainfall record
has suffered breaks owing to stormy
weather and heavy drifting.

Mr. T. G. Kay assisted by the Staff
made some observations on earth

1897

35

currents during his stay at the Observatory.

Special observations on hygrometry were conducted by Mr. J. S. Begg in April.

The Halfway Station was in operation in July August & September Messrs Muir, Drysdale, MacArthur and A. Aitken acting as observers.

The telegraph instrument was replaced in July by a telephone which has so far given satisfaction.

The staff of the Observatories (High and low) has been:

A. Rankin: J. Miller, R. H. McDougall and D. Grant. with J. Neil at High level only.

William Stewart & Adamson left the staff in December.

The following have assisted at various times throughout the year:—

Messrs J. S. Begg, T. G. Kay, W. T. Kilgour, G. Ednie, D. M. Aitken, A. Aitken, and J. Cummings.

Mrs John Matheson & W. Rankin acted as telegraph or telephone clerks.

also
J. Wilton

A. R.

1898

January 1st 1898

36

Summit clear from 6 to 15^{hrs} but sky pretty cloudy or overcast. bet Ann. fog on hills almost all day and at times passing over summit. Air slightly dry at 12 & 13^{hrs}. A solar halo seen at 15^{hrs} and coronae seen during the day.

Ther. Bar changed at 9^h 15^m N^o by 192677 bet 192672 same min out. A Party of six members of the Scottish Mountaineering Club climbed the Ben today, from the SW. and NW sides of the Ben

January 2nd

Fog till 11^{hrs} Summit clear rest of the day but sky nearly overcast. Fog hanging about hills all day. Air slightly dry after 18^h. Slight showers of snow fell till 11^{hrs}. Solar Corona seen at 19^{hrs}

January 3rd

Sky almost cloudless all day except for a little Cirro-Str in the afternoon. Air very clear and moderately dry. Lowest humidity 59. Fog on hills all round in early morning but after 5^h it began to break up and by 7^{hrs} had all disappeared; after 13^{hrs} fog began to form again in valleys to S + E and gradually

1898

37

Spreading all round and rising and enveloped Summit after 19^{hrs} =

Barometer falling rather suddenly and quickly in the afternoon but began to rise after 20^{hrs} and at midt rose 4° at same time wind had veered from SE to SW. Solar Halo seen from 15 to 18^{hrs} inclusive. To day six members of the S.M.C. ascended some of the crevices of Caen more heavy afternoons seen during the Observations.

January 4th

Snowing heavily all day

January 5th

Sky almost cloudless from 6 to 15^{hrs} but fog on hills to S. and SE. and continually pouring over Summit. Mist with drizzling rain after 23^{hrs}. Fogbows and Glories seen at 14 & 15^{hrs}. Lunar Coronae at 17^{hrs}. Then Bot changed at 10.15 N^o 3 put out by 535541 but 535542 and same man left out. Foot marks of tourists seen at ^{again} second gorge but had turned back from there probably afraid of the fog.

1898

January 6th

38

a good thaw in forenoon with heavy rain, but temperature falling slowly in afternoon but fair. A Lunar Eclipse at 19^{hrs}

January 7th

Light Showers of snow fell during the day

January 8th

Strong Squally S or SW winds till midday moderate in force thereafter. Temperature pretty steady and fairly high from 26 to 30 degs. Heavy showers of snow fell during the forenoon. Barometer pumping till 14^{hrs} —

January 10th

Temperature fairly high and rising to the freezing point at 13^{hrs} and pretty steady during the rest of the day. Light variable winds all day chiefly W. Light Showers of snow fell till 9^{hrs} then heavy drizzle and rain till 17^{hrs} fair since.

January 11th

Temperature rising all day and a fine thaw set in after 8^{hrs} with heavy rain during the rest of the day

1898

January 12th

39

Temperature high and steady at 36° with heavy rain till 4^{hrs} fell quickly to 32° at 5^{hrs} but falling slowly and fair the rest of the day. Summit clear at times in the afternoon and sky apparently cloudless but piled up masses of Cum-fog on hills to SE. S. & SW. and almost continuously blew across Summit. A faint aurora seen at 21^{hrs}

January 13th

Temperature at or slightly above the freezing point all day, with heavy drizzling rain

January 14th

Mist all day with drizzling rain
Temperature rising from 29° to 32° at 11^{hrs} Steady since

January 17th

Mist with drizzle or sleet - all day.
Mr. R. H. McQuigall came up here and
Mr. Miller went down to L. L. O.

January 18th

Mist, drizzle, rain and sleet

1898 January 19th

Mist and drizzling rain with 40 high temperature till 15 Hrs. Sleet and snow thereafter and temperature falling quickly.

January 22nd

Summit cleared after 8th and remained clear during the rest of the day. Detached fog on hills, and sky pretty clouded with cirri-types.

Thermometer-box changed after 10th.
Dry 192677 and Wet 192672 put out.

January 23rd

Mist and drizzle.

January 25th

Mist all day, and ice^{crystals} forming on all surfaces.

Mr. Ranshin came up and Mr. Wilton went down.

January 26th

Glazed frost forming most of the day: Mist and heavy rain.

January 27th High temp. Mist and drizzle

January 29th and 30th High temp: mist and heavy rain both days.

January 31st Temperature falling in early morning rising at night: Heavy rain after 19 H

1898 February 1st

41

Temperature fell quickly in early morning
Rose again till 15th and fell rapidly at-
night.

Barometer falling quickly with squally
W to NW winds (an unusual storm). Heavy
rain fell in afternoon and some snow
after temp. had fallen.

Barometer pumping heavily.

February 2nd

Fog and heavy snow till 16th Summit clear
thenceforth but sky overcast.

Very stormy in early morning and somewhat
squally all day. Very heavy squalls between
2nd and 3rd. In one of these the Richards Barograph
recorded a fall and rise of about 0.300 inch.
At 2nd the mercurial Barometer was pumping
from 24.700. to 24.550. at the time of reading
it.

Range not changed at 3rd - too stormy
as observer had to watch the squalls - having
got knocked down and blown along.
Lightning seen at 2nd and a ring on bell
of telephone at 3rd 20th.

February 3rd

Fog on summit: and snow falling
most of the day.

Direction of wind in early morning
very variable & uncertain.

1898 February 4th

42

Summit clear most of the day. Fog hanging around and at times passing the hill-top.

Thermometer-Box changed after 10th. Dry bulb No. 535541 and Wet. No. 535542 put out.

Raven seen at Bucket Stage at 17th - the only bird seen near Summit for some time. [The Staff here at present have not seen a Snow Bunting this year yet]

February 5th.

Fog on Summit or passing till 9th. Clear till 16th - some fog being on lower hills - Fog after 16th and heavy snow at night - Lunar Corona seen at 4th and a Solar halo was seen 11th 12th & 13th.

1st observation was not started till 1st 2nd

February 6th

Fog and heavy falls of snow all day. At midnight "Snow hail" was falling and an observer holding up his pencil it was tipped by a small blue light (St Elmo's fire) although none could be seen on Chimney or tower - being too bright probably.

February 7th Fog and heavy fall of snow. St Elmo's fire seen on Observer's pencil at 1st Ring on telephone bell at 0:17 and 0:21. 13th observation started at 13th 3rd

1898

February 8th

43

Fog most of the day: Heavy snow in morning. Snow-hail falling at 4th and on observer holding up his pencil St Elmo's Fire was seen on point as a small blue light. Large snow flakes falling at 23th each flake made up of a conglomeration of very small spikes.

The Midnt. Barometer reading is doubtful to extent of ± 0.002 in. or so - the reading was not entered at the time and before it was noted down the temperature of attached ~~therm~~ ^{therm}ometer had varied.

February 9th

Mist or fog with snow or drizzle all day. Temperature rose quickly till 5th and varied from 30° to 32° during the rest of the day. Ice forming on surfaces at and after 11th.

February 10th

Mist all day. Rain or drizzle till 20th sleet thereafter. Very squally SW or SSW winds all evening: rising to a moderate gale at 21th & midth.

February 11th

Heavy showers of snow, especially in early morning: when it was also rather stormy - very squally, SW⁸ winds.

February 12th

Snow falling heavily: very squally wind and thick fog. St Elmo's Fire seen on Pencil and observer's hair at 22th. { 21 obs. taken at 21th 3rd

1898.

February 13th

44

Snow falling heavily all day.
St. Elmo's Fire seen for a moment on
pencil during the fall of the last few
particles of a very heavy shower of
snow-hail at 23^h.

February 14th

Heavy snow during the day.
Mist-drizzle and glazed frost-at-
night

February 15th

Rain in morning; Hail and
snow in evening. Squally all day.
Barometer pumping heavily and great
noise in precipice at night: but wind
on summit could not account for
either.

February 16th

Very squally: and barometer
pumping badly all day.

February 17th

Summit-clear till after 6^h. Fog during
the rest of the day.

Thermometer-box changed after 5^h.
Dry 192677 and Wet-192672 were put out
and box put one step up on ladderstand

February 18th

Summit-clear. or thin fog passing
most of the day.

13 Hrs obs was started at 13^h 6^m.

1898

February 19th

Heavy fall of snow today: and ⁴⁵
 as the wind was light - it lay to some
 depth on surface. Large snow flakes at 17¹¹

February 20th

The barometer has been steadily falling
 yesterday and today with a N. or NE
 wind.

Between 3^h + 4^h this morning the barograph
 trace shows a rather quick fall and rise.
 the lowest point being about - 3^h 30^m. At
 3^h temperature was up 1^o 8 on previous hour.
 and at 4^h down 7^o 1. on 3^h. Reading at 3^h
 being 19^o 8 and at 4^h 12^o 7. After 4^h the
 fall in barometer that had been in
 progress went on as before the interruption
 but the temperature remained low. After
 22^h the barometer began to rise quietly.
 The wind was SW at 21^h and backed to
 S & E by mid^h.

February 21st

The wind was SE at 1^h calm & v
 variable at 2^h and then went again
 to N & NE. and became rather squally
 causing a good deal of drift.

February 22nd

Summit clear frequently but air
 saturated and sky cloudy

1898

February 23rd

46

A very fine sunny day. Some fog hanging about summit till 4^h. Air dry during the rest of the day. The fog was almost cloudless till 16^h: when a bank of stratus that had been low to NW² for some hours, spread and covered the sky till after 22^h: when it cleared away again leaving a cloudless sky. This is the only day in last six weeks that the camera could be used.

Thermometer-box changed after 5^h. Dry 535541 and Wet 535542 put out. Height not altered. The min. was badly choked with snow and was brought in. It was put out again at 22^h.

Tower Dust-counter sorted and some observations made.

February 24th

Cloudless till 7^h: Cirri types thence till 13^h. Min fog depositing dark crystals till 17^h. Clear again but Overcast till 22^h. Fog at 23^h and mid. depositing clearer crystals than in afternoon.

Solar Haze seen at 13^h.

February 25th

SSE gale till 20^h. Continuous snow from 16^h till mid. From 16^h to 20^h inclusive there was no rain gauge results got, owing to drift. Some remarkable dust obs. made before and after passing of centre of Storm. Fog crystals { white in morning
dark in evening

1898

February 26th

Fog all day. Snow falling most of the 47
day heavily at times.

Winds light and variable chiefly N^W
making today's dust obs. a little
doubtful.

St Elmo's Fire seen at 2nd and 4th
Rough flaky snow, made up of spines and
small motes falling in morning

February 27th

Fog and snow all day. St Elmo's
Fire seen on observers pencil at 22 hrs.

February 28th

Fog and snow all day. St Elmo's Fire
seen at 5 hrs. Flaky snow falling at 5th
and small motes and pellets (not snow-hail)
at night

No visitors during the month.

March 1st

Fog and heavy showers of snow all day.
At 19th the rain-gauge was found undercut and
lying on its side nearly full of snow. The
entry for this hour has been interpolated.
Snow falling in morning consisted of small
pellets (not quite snow-hail)

March 2nd

Summit clear at times: and fog
has been very thin throughout.

A leak in the dust counter stopped the
dust observations — no material on hand to repair.

1898

March 3rd

48

Temperature shows a sudden rise at 14^h and a fall at 17^h. When this fall took place the wind became strong and squally and continued so: causing much drift and pumping in barometer

March 4th

Summit clear at times in early morning, and slight showers of snow in forenoon.

Thermometer box was changed after 23^h. Dry 192677 Wet 192672 put out, height not altered.

Today Mr. D. Grant arrived at the Observatory and Mr. Rankin went down to the Low Level.

March 5th

Clear and air dry till 14^h. Fog and showers of snow thereafter.

March 6th

Thin fog "off & on" all day.

Temperature fell from 28° at 13^h to 21° at 14^h. Thermometer box changed after 13^h. Dry 535541 Wet 535542 put out.

Lunar corona at 19^h + 21^h.

The Dust-Counter was repaired and ~~the~~ observations with it started after 23^h.

1898

march 7th

49

Summit clear and sky slightly clouded all day. Thick haze all round & at no time during the day did the visibility exceed 2.

The tracks of a weasel were seen about windows this morning. {The 9th observation started at 9:30
No Cor. applied to readings

march 8th

Sky almost cloudless and, thick haze below till noon. Fog thereafter.

Temperature rising steadily all day

March 9th

Summit clear at 9, 10, & 16^{hrs} fog the rest of the day, and slight showers of snow in forenoon.

This morning's box changed after 10^{hrs} dry 192677 & Wet 192672 put out.

After 19^{hrs} a mouse (or vole) was seen scampering across kitchen floor, and into Neil's bedroom, where it was caught and put into a tin box. It was found dead about two hours afterwards.

March 10th

Fog or Mist all day except at 20^{hrs} when sky was cloudless, and thick fog all round below. Showers of snow in morning & drizzling rain during the day. Glazed frost at 11^{hrs} & 23^{hrs}

1898

March 11th

50

Fog or mist all day, with showers of sleet and drizzling rain at times during the day.

Glazed frost forming in early morning and forenoon.

March 12th

Squally W or SW^{ly} breezes in forenoon and slight showers of snow at times

March 13th

Fog and squally SW^{ly} winds all day. Snow fell heavily all evening.

Glazed frost at 11^{PM} and St. Elmo's fire seen at 21^{PM} (Very bright)

March 14th

Slight showers of snow in early morning. Clear at 15th 21th & 22th.

St. Elmo's fire seen very bright on Kitchen chimney and on all posts etc. on top of tower at 1th and 2th

March 15th

Fog or mist all day. Squally winds all morning, causing a good deal of drift, and pumping of Baro.

Glazed frost at 10^{PM}. at 2^{PM} the rain-gauge was found toppled over and full of drift. The entry for this hour is interpolated

1898

March 16th

51

Temperature rising slowly all day. Showers of snow and sleet in forenoon & rain thereafter. Barometer pumping a little from 22^{Hrs} till midnight.

March 17th

Temperature fairly high and steady all day (33°-37°) with mist and very heavy rain. Barometer pumping slightly.

March 18th

The temperature continued high and rain fell heavily till 15^{Hrs}, when the wind, from W^{ly} veered to N^{ly} and temperature fell below the freezing point. Slight showers of snow after 20^{Hrs}. The depth of snow which was 70 inches at 15^{Hrs} on the 16th is down to 60 inches today.

Barometer pumping slightly till 18^{Hrs}.

March 19th

Summit clear at 5 Hrs, thin fog the rest of the day with slight showers of snow in afternoon.

March 20th

Clear at 7^{Hrs} & 8^{Hrs} fog the rest of the day, slight showers of snow at times.

Thermometer boy changed after 8^{Hrs}. Dry 535541 Wet 535542. Put out, Height not altered.

1898

March 21st

52

Thin fog, clearing a little at times. Light northerly winds in forenoon and almost calm in evening.

March 22nd

Temperature rising steadily all day from 22° 4 to 32° 7. Showers of snow in afternoon and drizzling rain in the evening.

Today Mr. James Miller came up and Mr. McConagall went down.

March 23rd

Squally N and NE winds all day strong in the evening with showers of sleet and snow. Sun gleaming through the fog in forenoon but summit clear at times in the afternoon. Barometer pumping most of the day.

March 24th

Strong squally N & NE winds all day weather cold. Temperature fairly low and steady between 18 and 20°. Summit clear after 14^{hrs} but sky cloudy and fog passing frequently. Haze in distance. An slight drizzle at 18 + 19^{hrs}. Slight showers of snow fell till 7^{hrs}. Barometer pumping heavily all day. Ther. Bar changed at 16.30 No 192677 + 192672 put out same min out. Height above snow 48 inches.

March 25th

53

Summit clear all afternoon but sky cloudy or overcast. Fog on hills to N+NE and passing over summit at times.

Showers of snow fell from 7 till 13^{hrs}. Air dry from 16 to 22^{hrs} = lowest humidity 75 at 17^{hrs}. Heaters burning in valleys to N. NE + W. New top ladder fixed up on Thermometer stand N^o 2 and Bot changed at 16^{hrs} 30^{min}. Therm put out ^{dry 53.5-54.1} wet ~~42~~ Same W. out
Height of Bulbs above snow 57 inches

March 26th

Sky almost cloudless till 8^{hrs} but fog on hills all round and off and on summit till 16th continual fog thereafter. Slight showers of snow fell from 9 till 11^{hrs}. Air slightly dry ~~till~~ at 3^{hrs}. Temperatures low all day but rising range 13° to 19. Strong squally N or NE^{ly} winds all day. Aurora seen at 2^{hrs}. Barometer pumping all day.

March 27th

Thin fog all day and sun gleaming at times during the day. Slight showers of snow fell in early morning. Barometer pumping almost all day.

1898

March 28th

54

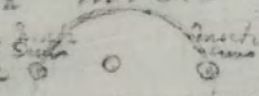
Fog or overcast sky all day with snow at intervals during the day.

Bot changed at 13.10 ¹¹ N^o by 192677 + 192672 put out. Same driven out

March 29th

Summit clear at intervals after 10^{hrs}. Slight showers of snow fell in the early morning.

March 30th

Sky almost cloudless till noon except for a little cir + cir-s; fog on hills all round but about noon the fog rose up overhead and formed a cloudy sky all afternoon. Passing showers to NE + E after 17^{hrs}. Haze in valleys all day. Heather burning in all directions during the day. Air dry till 20^{hrs} lowest humidity 49 at 8 + 9^{hrs}. Shadow of Ben seen at 6^{hrs}. A solar halo seen with Mock Suns at 8 + 9^{hrs} as per sketch 

March 31st

Sky cloudless till 2nd. Thin fog with occasional breaks since.

Two visitors up during March

1898

April 1st

55

Thin fog all day and sun
flaming at times. Light showers
of snow fell till 10 ^{hrs}

April 2nd

Fog or mist with showers of snow & sleet
Today Mr. Wilton and MacKenzie came up
the former to act as observer. G. Grant
went down to Low Level Observatory

April 3rd

Heavy showers of snow all day
Barometer pumping in the afternoon

April 4th

Summit clear at intervals from 13^{hrs}
till 21^{hrs} but sky somewhat cloudy with thin
cumulus. Cloudless since; and air
slightly dry. Light showers of snow fell till
3 ^{hrs}. Bar changed at 22^{hrs} 10^{min} No^s by 535541
bet 535542 and same man put out
Height above snow 55 inches

April 5th

Sky cloudless till 8^{hrs} except for a little
cirro-cum; and moving quickly from W. Fog or
cloudy sky since. Air dry till 5 ^{hrs} day at times
thereafter. Temp low in early morning but rising all day (15 to 27)

1898

April 6th

56

Showers of snow and sleet in forenoon and heavy rain in afternoon. Temp. rising all day and a good thaw set in after 12^{hrs} (28°-36°)

April 7th

Mist or fog almost all day with showers of snow and rain in the afternoon. Temperature high all day.

April 8th

Mist till 5^{hrs} clear, but dry cloudy with hard packed Co. Str. snow. Fog passing at times in forenoon. Slight showers of rain fell till 4^{hrs}. Air dry most of the day. Squally SW winds till 6th backing to S + SSE times and increasing to a gale at night. A stranger up to day

April 9th

Strong SSE winds till 5^{hrs} veering to W and NW and moderating, but backing again in the evening to SE and increasing in force. Mist all day with showers of rain and sleet.

1898

April 10th

57

Mist or fog all day with heavy showers of rain sleet and snow. Strong SE winds till 3^{hrs} moderating and wind veering to SW-W somewhat squally: **XI** Visitors today including 3 alpine climbers who came up the 2nd Gully.

April 11th

Showers of snow during the day heavy in the early morning. 22 Visitors today including 3 alpine climbers who came up by the Castle Ridge.

April 12th

Occasional sunny intervals in afternoon. Showers of snow in early morning. 9 Visitors ascended the Ben today.

April 13th

SSE gale all day, wind veering to SW after 22^{hrs} and moderating in force. Shower of snow since 9^{hrs}. Snow drifting a great deal all day.

1898

April 14th

58

Summit clear since 5^{hrs} but sky somewhat cloudy with Cum and Cir till 20^{hrs} and at times fog passing, almost cloudless times, but fog on hills most of the day, after 17^{hrs} it began to clear away and at 20^{hrs} it had all cleared away. Air slightly dry since 8^{hrs}. Bot changed at 5¹⁵ ^m Nov by 192677 but 192672 + Same Min put out. A Raven seen near bucket stage in forenoon and a Snow bunting near observatory in afternoon. Numerous flies seen on surface of snow between observatory and McLeans Steep. Two visitors up today

April 15th

Sky slightly clouded till 4^{hrs} and air dry. Fog since. Calm or light variable winds all day chiefly N^W. Heavy showers of snow since 14^{hrs}. Aurora (faint) seen at 2 + 3^{hrs}. Two visitors up today

1898

April 16th

59

Thin fog in forenoon and sun
gleaming. Slight showers of snow fall
between 6 + 9^{hrs}

Two Visitors up today

April 17th

Summit clear from 10 to 13^{hrs}
but sky overcast. Strong S to SE² winds all day

April 18th

SE² winds all day, strong till 13^{hrs}
moderating thereafter. Summit clear from
13 to 20^{hrs} but sky overcast. Air slightly
dry between 17 + 20^{hrs} Fog crystals
(Brown) forming rapidly in early
morning. 2 Snow bunting seen in early morn

April 19th

Light showers of snow till 9^{hrs}
Two Visitors up today

April 20th

S to SE² winds all day strong till 12^{hrs}
and at times reaching full force
moderate to light since. Brownish fog
crystals forming all day

Two Visitors up today

1898

April 21st

60

21st April
 Bot changed at 5th 15th Nth 535341
 = Wth 535342
 and same min put out
 height above snow 55 inches

Summit clear since 5th. Very fine weather though somewhat cloudy till 16th cloudless thereafter. but fog on hills during forenoon but by 14th fog had all disappeared haze near horizon all day. Temp rising all day the max 41.3 at 15th being the highest temp this year. Air dry since 6th very dry at times, the humidity being as low as 48 at 18+21th Glories seen at 5th.

To day Bureau Grant came up and Mr Wilton went down

April 22nd

Stay cloudless till 6th cloudy with cum + cir till 15th when fog came on, Summit clear again after 19th and almost cloudless since. Thick haze around all day Temperature high and air dry most of the day, very dry at 6th Humidity being 46 Light S to SE winds all day
 Five Visitors up today

1898

April 23rd

61

Mist & fog all day except at
1st when sky was cloudless.

Light showers of drizzle sleet and
snow since 7th

April 24th

Fog & mist till 5th. Clear and sunny
during the day. Air dry most of the day
Fog in evening again. The fog that
enveloped the hill-top in early morning
sank below the summit leaving the
sky cloudless, but rose again towards
noon and forming a cloudy sky of
cum. Showers of snow and drizzle till
4th fair since but passing showers
to W & S in afternoon. Bot changed
at 6th 10th N^o by 192677 bet 192677 and
same wire put out.

A Snow bunting and Raven seen today
1 Visitor up today

April 25th

Summit clear from 13 to 17th but sky overcast
and air slightly dry. Anemometer cleaned & fixed
up today and began to take hourly readings at midn
One Visitor up today

1898

April 26th

62

Summit clear at 7+8^{hrs} and
 are dry. Sun gleaming thereafter till
 15^{hrs}. Temperature lower today than
 has been during the past few days
 SE² winds all day light in forenoon
 but freshening up to a moderate
 gale at night. Fog crystals forming
 all day. Anemometer tied up at
 2^{hrs}. The reading at 1^{hr} not being
 entered in the daily sheet as being
 somewhat doubtful.

April 27th

Moderate ESE² gale all day.
 Summit clear at 7+9^{hrs} but sky overcast
 Piled up masses of clouds on hills
 to E+S. Barometer pumping at times during the day

April 28th

Winds moderating after midt and
 light during the day but again increasing
 to gale force after 29^{hrs}. Blazed frost
 at 8+18^{hrs}. Showers of sleet and
 snow after 19^{hrs}

1898

April 29th

63

ESE to E¹/₂ gale all day with an average velocity of 66 miles per hour. Slight showers of snow sleet and drizzle in forenoon. Glazed frost forming from 11 till 18^{11:00}.
Barometer heavy all day

April 30th

Strong E or ESE¹/₂ wind all day. Slight showers of snow in early morn and again at night. Summit clear at times between the hours of 12 & 14 and about 25 minutes sunshine recorded. Barometer pumping most of the day.

63 Tourists have climbed Ben Nevis during April.

1898

May 1

64

Fog with showers of snow till 11^{hrs}
 Summit clear but sky somewhat
 cloudy with Cum. & Cir. Air very
 clear to W in afternoon. Fog on
 hills to E & S but towards evening
 it gradually spread round to W
 and by 22^{hrs} fog had enveloped the
 hill top, slight showers of snow time
 Air slightly dry from 15 to 21^{hrs}

~~May 2nd~~
 May 2nd

Summit clear for a few hours in
 the afternoon but sky pretty cloudy
 Air slightly dry from 14 to 16^{hrs} and again
 at 21^{hrs}. Slight showers of snow in early
 morning and sleet and snow in the
 evening. Moderate SE to ESE winds
 during the day but blowing briskly
 in the evening. Barometer falling
 rapidly since 18^{hrs} and also
 pumping a good deal
 Solar Halo at 15^{hrs}

3 Visitors up to day

1898

May 3rd

65

Summit clear at times during the day but sky cloudy. Dark and ugly appearance to S + SW in early morning. Showers of snow, sleet and drizzle. Barometer pumping at 1^{hr}

May 4th

Wind veering in afternoon from SE to SW + West at night. Mist or fog all day with showers of snow sleet + drizzle

May 5th

Light W or NW^{1/2} winds till 12^{hrs} or NE^{1/2} since. Heavy showers of snow during the day

May 6th

Summit clear after 11^{hrs} but sky cloudy or nearly overcast till 19^{hrs} almost cloudless since. Air very clear and dry all afternoon, the lowest humidity being 33 at 23^{hrs}. Showers of snow fell till 2^{hrs}. Fog rising in Glen Harris at 20^{hrs} but this cleared away shortly afterwards. Glaciers seen at 20^{hrs}. Bot changed at 12¹⁵ by 535541 but 535542 and same min put out.

a. Tourist up this evening

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May 7th

Time and air very clear till 15^{hrs} but sky fully have covered with Cir + Cir-Str.
 At 14th fog in distance to W but creeping up and enveloping summit at 16th.
 Slight drizzling rain since 20^{hrs}. Air dry till 15^{hrs} very dry in early morning the lowest humidity being 36 at 1st.
 Temperature on the whole has been rising all day. At 5^{hrs} a solar halo with mock suns, the former rather indistinct but the latter bright.

For the first time this year a party of 10 were up to see sunrise + another 3 during the day.

May 8th

Mist with drizzling rain all day

May 9th

Fog or mist till 15^{hrs} fine and clear since and air dry. Lowest humidity being 47 at 21^{hrs}. Sky a little cloudy with Cir + Cir-S and moving from the W. Some fog gathering on hills to N + E at 20^{hrs} drizzling rain till 8th fair thereafter.

1898

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May 10th

Barometer falling quickly all day
 Sky almost cloudless till 5^{hrs} Cloudy
 or overcast till 6^{hrs} with Ci-S then
 forming into low stratus. Mist or fog
 since with showers of rain and
 sleet. Air pretty dry in early morning
 the humidity being as low as 44 at
 4. 5. & 7^{hrs} = Fog on hills to E + S at 3^{hrs}
 and this spread all round except
 to W and rose up and enveloped
 Summit by 10^{hrs}. A Solar Halo
 with mock suns seen at 5^{hrs} =

Glazed frost at 12^{hrs} =

May 11th

Temperature pretty low all day (27.9-22.1)
 Fog all day with heavy showers of snow
 till 15th Fair since. Light S or E winds
 till 5th veering to N + NE since

May 12th

Temperature low and fairly steady
 (23 to 20). Somewhat gusty N + NE winds
 Fog all day with showers of hail and
 snow in afternoon

1898

May 13th

68

Summit clear and air dry from 12 to 16^{hrs} but sky pretty cloudy. Passing showers to N and E. till 5^o clear again after 20th and sky cloudless since. Light N winds till 7^{hrs} Calm or NE^{ly} air since. Temperature pretty low in early morning but rising smartly during the day but falling again in the evening range (19.9 to 29.5). Shower of hail at 10^{hrs}

May 14th

Fine and very clear till 18th and almost Calm. Fog with light WNW^{ly} winds since.

May 15th

Heavy showers of snow throughout the day with clear and sunny intervals.

J.S. Begg came up to-day and J. Miller went down.

May 16th

Showers of snow till noon. Then clear and air dry, but cloudy, till 18". Fog since. Two snow-buntings seen at 14" and a raven at 16".

May 17th

Fog till ~~noon~~ 17", with showers of snow till from 5" - 12".

From 19"30' onwards, a solar halo observed with two mock-suns; the rim of the halo was distinctly visible against an apparently cloudless sky. Solar coronae and glories at times between 19" + 20".

Drifting this forenoon has formed a huge mound of snow between the hotel and the first gorge, several feet higher than any other part of summit.

May 18th

Almost calm all day with bright sunshine and dry air. Thick haze below. Hoar frost on roof in early morning. Robinson cleared, oiled, and set going between 9" + 10". An extra temperature

reading at 16^h 30' gave dry Bulb 45.0
Wet Bulb 40.0,

the dry bulb reading being higher than any of the hourly ones and the highest since November last.

One visitor up this evening. (~~Mr. Clark~~)

May 19th Another fine day. Calm with very thick haze below till 9^h, when the springing up of light breezes from ESE + SE somewhat dispersed it. Hoar frost on the roof in early morning.

Two visitors (~~Dr. and Mr. Clark~~) up to day.

May 20th

Summit again clear the whole day with bright sunshine. Strong + sometimes squally easterly to south-easterly breezes from 4^h to 9^h and again after 21^h. One visitor up to day.

May 21st

Fine and clear all day. Visibility, 5 at 21^h + 22^h. Sky very gloomy to E^d at 23^h and overcast at midnight.

Max. No. 138390 fitted up in thermometer box at 13^h 35^h.

Buchanan the lineman up to day.

May 22nd

Strong E^s + ESE^s breezes ~~till~~ all day. Mist or fog all day except for a few clear

intervals after 17^h

Three visitors up to day.

May 23rd

Fine sunny weather again.
about 21^h Neil found a cuckoo lying dead on
the snow at the top of Maclean's steep (over 4000 ft.)

~~Solar Halos in morning.~~

May 24th Fine, calm, & very warm day.

Maximum 53.6. Solar Halos in morning.

Air very dry after 20^h; lowest humidity 36 at Mitt.

May 25th Much colder today. Light

Squally E^{ly} & N^{ly} breezes. Temperature
below freezing point after 19^h. Heavy & high
clouds to E & S after 17^h. 4 visitors up today.

May 26th Robinson tied up at 1^h; let

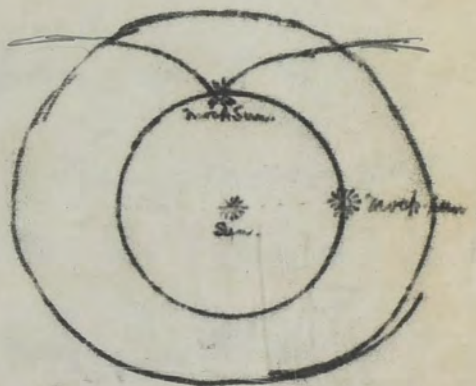
loose again ~~at~~ before noon.

Squally northerly or easterly breezes & all
morning. Showers of snow between 17^h & 19^h.

Three visitors up to day. The observation
at 4^h was started 15 minutes late; no
corrections applied.

May 27th. Robinson tied up all day. 72
Very fine Solar Halo with mock-suns observed
at 4^h, the ring being seen thus;

Shower of snow from
11^h to 15^h.



May 28th
Temperature very
steady all day. (29-33). Pony up to day to 2nd gorge.
May 29th

Thaw with mist and drizzle in early
morning. Heavy showers of snow after noon.
Temperature showed decided fall from 30.0 at
18^h to 23.0 at midt.

May 30th. Temperature low all day, 23-31.
Summit clear at intervals. Showers of snow after 17^h.
13 visitors up to day.

May 31st. Temperature low all day 24-30.
Frequent showers of snow and a good
deal of drift. 6 visitors up to day.
over 50 visitors in May.

June 1st Squally NE^s breezes with much fresh snow & drift and low temperature (26-29)

June 2 Summit clear from noon to 4 p.m.

Bar changed after 13". No maximum put out. Dry & Wet 535321-2. and minimum 1108531A.

June 3: Fog or mist on summit all day with showers of snow and sleet. Robinson let loose for a few hours in afternoon.

June 4 Robinson let loose at 13"

Clear at times during day.

Hunt and Neil & Duncan, went down to day

R. H. MacClungill and Jamieson came up.

June 5th & 6th Mist both days. Moderate to strong south-easterly gale from 22" on 5th to 16" on 6th. Highest observed velocity, 94 miles per hour between 7^h 40' & 7^h 45' on the 6th.

June 7. Men frost on roof in early morning.

~~June 7. Put out men to 1729 5 in summer bar.~~

June 7th; from 4th of this date till 18th on the 17th.

very fine clear and almost calm, though sometimes cloudy weather was experienced on the summit.

June 9th Put out therm. no. 117293 in Summit box.

June 13th Raven seen at 17th.

June 14th

Fine sunny weather. Sky almost cloudless all day and air dry. The humidity ranging from 46 to 92. Thick haze in valleys most of the day.

Today Mr James Miller came up and J. S. Begg went down.

June 15th

Summit clear and air dry but sky cloudy or overcast. Fog in valleys all day. Light N.W. wind till 12th Calm the rest of the day.

June 16th

Summit enveloped in fog at 1st and continued to till 4th sky somewhat cloudy till 17th cloudless thereafter. Fog in valleys most of the day. Solar Halos seen at 6 + 7th.

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June 17th

75

Air very clear and dry in early morning
lowest Humidity being 41 at 8th. Sky pretty
cloudy till 18th. Fog or mist since with showers
of rain since 23th. Fog in valleys all day
Solar halo seen at 10 + 11 ^{hrs}

June 18th

Temperature lower today range (43.9 to 35.1)
mist till 14th with heavy rain. Fair but
foggy since. Light S.W. winds ^{12 to 5 hrs} veering
to NWth and Nth since

June 19th

Mist or fog all day with drizzling
rain in the early morning and showers of
snow and rain in the evening

June 20th

Mist with heavy drizzling rain
all day. Temp fairly high + steady

June 21st

Temperature much lower and falling
steadily all day to below the freezing point
Fog or mist till 13^{hrs}. Summit clear till 16th
but fog passing. Mist since. Showers of rain
frequent and snow fell in the evening. Strong
Earth currents in telephones in afternoon and
Thunder heard at 16^{hrs} 46 mins

1898

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June 23rd

Temp steady at 32° till 9^{hrs} rising steadily since. Light showers of snow fall in early morning and heavy rain after 19^{hrs}. Summit clear between 11 + 14^{hrs} but sky cloudy and occasional sunny intervals. Light N & NE winds till 9^{hrs} backing SE by 21^{hrs} but veering again to SW thereafter.

June 24th

Heavy rain till 4^{hrs} occasional showers since. Snow has all thawed from Snow Post, but there is still a good deal of snow on hill tops yet varying from 1 to 8 feet in depth.

June 25th

Mist or fog till midn. with low temperature (34-39). Light winds, chiefly SW^{ly} till 15th; N^{ly} thereafter.

Showers of sleet, rain, + drizzle at intervals.

June 26th Mist off and on all day.Snow-bunting seen on Summit cairn after 16th.16th observation started 3 minutes late

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June 27th

77

Summit clear from 3 to 6^{hrs} but
fog around and passing but sky
apparently almost cloudless. Hill tops
again clear after 14^{hrs} but sky somewhat
cloudy but becoming clearer and
cloudless after 22^{hrs}. Light N winds
or Calm all day. Air slightly dry in afternoon.

June 28th

Sky cloudless till 4^{hrs} slightly clouded
till 14^{hrs} overcast and fog in evening.
Temperature low in early morning but
rising quickly during the day range
(36° to 52°) Air dry till 18^{hrs} very dry at
times in forenoon lowest humidity
being 31 at 8^{hrs} but fog in valleys in
valleys in early morning but this had
all cleared away by 10^{hrs}.

June 29th

Slight drizzle almost all day

June 30th

Mist & fog all day with slight drizzle
till 6^{hrs} and again after 22^{hrs}.
Today Mr. B. Mac Gillveray came up to act as Telephone Clerk
for the season.

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July 1st

Mist or fog all day with occasional
showers of drizzling rain

July 2nd

Summit clear from 12 to 16^{hrs} inclusive
but sky slightly clouded. Air dry during
those hours and about 4^{hrs} sunshine
recorded. Temperature low falling
below 32° after 18^{hrs}. Heavy showers
of hail and snow fell after 17^{hrs}

St Elmo's fire heard at 8 & 22^{hrs} on
Kitchen chimney and on instruments
on top of Tower. Thunder heard at 8^{hrs} 15^{mins}

July 3rd

Temperature below freezing point
most of the day. Heavy showers of snow
sleet and drizzle. The hill top has a
fresh covering of snow from 3 to 4
inches deep

July 4th

Summit clear and air dry at times from 9^{hrs} till 18^{hrs}
but fog passing frequently. Clear again after 22^{hrs}
and sky about half covered with Cir and Cir-S.
Comet also seen at midn. Tonight Mr Buntlett
came up the hill to act as an observer

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July 5th

Summit clear and air dry till 4^{hrs} ⁷⁹
but sky overcast with showers of sleet
rain & drizzle. Temp low till 6^{hrs} but
rising quickly since range (32 to 46)
Today Robert McConquell went down the hill

July 6th

Heavy rain and drizzle all day
Today Mr. Jamieson left observatory and
James Neil returned from holidays

July 7th

Mist till noon; clear at times till 2¹^h, when
the clouds sank below the level of the summit
leaving the sky cloudless & the air dry and clear ^{but cold.}
Lowest humidity 51% at midt.

Barometer rising all day; wind northerly & light.
This evening James Miller went down to Low
Level Observatory and John S. Begg came up.

July 8th

Summit clear, sky almost cloudless,
and air dry all day. Lowest humidity
38% at 7^h; mean, 61%.

Temperature showing large range (35-52)
Cold northerly breezes in morning but calm
& warm thereafter. The shadow of the Ben

was very marked from sunrise ($3^h 35'$, G.M.T.) till 4^h . Detached cum. fog in valleys in morning but no fog below at night.

July 9th. Sky somewhat cloudy till $7^h 19^h$ but weather fine, warm & very clear all day, the visibility being 5 from dawn till dark. Shadow of the Ben very distinct both at sunrise & sunset. The air was ~~at night~~ abnormally dry (for July) in the early morning, and the following extra readings were taken:—

$5^h 10'$ D.B. 44.8	$5^h 20'$ D.B. 45.2	$5^h 30'$ D.B. 45.8	$5^h 40'$ D.B. 45.8
W.B. 31.3	W.B. 31.4	W.B. 31.1	W.B. 32.1

The lowest humidity observed (23%) was at 9^h when D.B. was 47.2 & W.B. 31.2.

Solar Halo at $6^h, 7^h, 8^h$. all morning the motion of the upper cloud (cirrus) was directly opposite to that of the wind on the Summit — which was N^{ly} & light all day.

July 10th Another fine warm and exceptionally clear day. A good deal of cumulus all day till 17^h , when it enveloped the Summit; but from 18^h onwards it lay in a thick sheet very little below the level of the hill top.

July 10th cont'd.

After 21^h the wind veered from NW or NW to SSE but the upper cloud motion continued to be from NNW.

The 5^h observation was started 15 min. late but no correction was applied to the readings.

July 11th. Thick fog almost on a level with or passing over summit all day, keeping the air nearly saturated. Glories & fog bows were frequent before noon. The wind, very light throughout, veered gradually from S at 1^h to NW or N at night. Barometer falling all day and slight drizzle after 22^h.

July 12th. Summit enveloped in mist all day except at 4^h & 21^h. At 4^h thick fog lay all round below and a large broad mass of cir. c. stretched above from NNE to SSW its motion being the same as that of the wind on summit. Though the summit was clear

at 21^h and the wet bulb read lower than the dry, the humidity was entered at 100. as a drop of water was hanging to the dry bulb. Solar Corona just before sunset. at 23^h Robinson was found struck; a flag that floated over the lightning conductor having been loosened by the breeze had got entangled in the cups & stopped them. the no. of revolutions at 23^h is therefore interpolated.

July 13th Temperature low all day (32-41)
~~Mist~~ Mist till 10^h; then clear though air continued very moist. Cloudless from 18^h to 23^h.
 Visibility 5 all afternoon.

July 14th Fog at 3^h & again from 9^h to 17^h Thereafter cloudless. Large & sudden changes in the relative humidity at various times. Fog bow and corona at 17^h 40'; glory at 20^h.
 Spiders seen in kitchen at 15^h.

July 15th. Sky cloudless with fog below till 9^H overcast, though fog still below at 10^H, 11^H, 12^H; then fog or mist very thick at times.

July 16th Summit clear at 10^H; mist or fog the rest of the day with heavy showers of rain in forenoon.

July 17th. Summit clear at 7^H & 8^H. Mist the rest of the day with very heavy rain after 17^H, 1.604 inches falling in 5 hours. Temperature low in early morning with light northerly breeze backing to W or WSW thereafter.

July 18th Temperature falling till 6^H then very steady (41-39). Mist till 23^H with heavy rain in morning.

July 19th Fog till 4^H clear the rest of the day with visibility 5 from 17^H to sunset. Temperature below 32° in morning and low all day but air almost calm. Raven heard at

bucket stage at 20th.

July 20th

A very fine day. Thin fog at 3^h, 4^h, & 9^h; otherwise almost cloudless. Hoar frost, glories, fog bows & coronae in early morning. Visibility 5^h from noon till 22^h. Air ~~was~~ dry from 20^h till mid; lowest humidity 40. Earth's shadow seen at night.

Snow bunting heard singing very sweetly at various times during last 3 days.

July 21st Fog or mist most of the day; clear intervals showed cloud all round both above & below.

July 22nd Mist most of the day but clear occasionally overhead.

11^h observation started 2 min. late.

July 23rd Temperature falling steadily all day 42-32. Wind veering from W to N & NE; heavy drizzle from 5^h to 7^h. Summit clear at 15^h & 16^h.

July 24th

85

Temperature below 32° from 2^h till 9^h. fog crystals forming slightly. Summit clear after 9^h. Wind N. ^{by} till 9^h. calm till 20^h, then S. ^{by}.

July 25th

Summit clear all day.

Solar corona at 6^h 10'. Fog below till 10^h, passing slightly at 11^h + 12^h & risen thereafter. A young snow bunting which the cat brought in yesterday, alive but injured, died this afternoon.

July 26th

Thick haze below all day. Slight fog passing at 11^h + 12^h. ~~Slight~~ Southerly or southeasterly air all day.

July 27th

Sky almost cloudless till 6^h ^{10⁰⁰}; thin fog or cloudy sky thereafter. Thick haze all round below in early morning. Air clear and slightly dry till. Drizzle at mid. Today J. S. Bass went down to Low level and James Miller came up.

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July 28th

86

Mist all day with heavy showers
of rain and drizzle

July 29th

Summit clear and air dry after
6th but sky cloudy during the rest of the
day. Fog in valleys and at times rising
up and passing over Ben Nevis.

Temp low in early morning being 31°
at 6^{hrs} but rising during the day.

July 30th

Sky pretty clear till 18th Mist with
drizzling rain since. Fog in valleys
most of the day. Glories seen at 5th
and a Solar Halo at 6^{hrs}

July 31st

Mist all day with heavy showers
of rain and drizzle till 13th

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August 1st

87

Heavy showers of rain throughout the day
Today Mr Bartlett left the observatory and
Mr A. Aitken came up to act as observer

August 2nd

Very heavy rain fell from 6th till
13th the hourly falls being over 3 tenths
per hour and till 18th. The falls for
varying from 1 to 2 tenths per hour
from thereafter

August 3rd

Showers of rain during the day

August 4th

Temperature steady all day (37.5-35)
occasional showers of rain in forenoon
and again at night

August 5th

Light SW wind till 4th backing to SE and
increasing in force to a strong breeze but veering to NW
again after noon, moderate to light since
showers of sleet at 4th rain and drizzle the
rest of the day. Temp steady between 34th + 35th
till 5th rising quickly till 15th 45.8 falling since
37.0 at midnight

1898

August 6th

88

Slight showers of drizzle in forenoon
Summit clear after 20^{hrs} but cloudy
with Cum and Cirro Stratus. Lunar Halo
seen at 22^{hrs} Hour frost on roof of
Observatory at midnight

August 7th

Sky almost cloudless from 3 till 10^{hrs}
Overcast till 15^{hrs} Mist since with showers
of rain. Fog in valleys most of the day
and passing over Summit at times
Air slightly dry from 5 to 15^{hrs}.
Lunar Halo seen at 2^{hrs} 2^{hrs}

August 8th

Summit clear at times in the afternoon
Cloudless after 23^{hrs} Slight showers of
rain in the early morning

August 9th

A very fine day. Sky almost cloudless
till 12^{hrs} but overcast thereafter with Cirro-Str
Fog in valleys all day and rising above
Summit in afternoon and passing
Air dry all day very dry in early morning
The humidity at 4th being 38. Fog on at Mt.
Lunar Halo at 1th Solar Halo at 8+9^{hrs}. Hour
frost on roof of Observatory in early morning

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August 10th

Mist all day with heavy rain till
2 pm and again after 22^{hrs}

August 11th

Mist till 16^h with heavy drizzling rain
clear since but sky cloudy with hard packed
Crows-Str. Fog on hills to W and haze all
round. Temperature high all day (44 to 52.5)

Solar Halo at 18^{hrs}

August 12th

Fog till 3^{hr} cloudy or overcast till 18^h
Mist with heavy rain since. Slight haze
in afternoon. Shadow of Ben Nevis
seen at 4^{hr}.

August 13th

Fog or mist all day with showers
of rain during the day. ^{D. Grant up. J. Miller down}

August 14th

Clear sunny intervals between 12^{hr} & 15^h

August 15th

Sky cloudless till 3^{hr} somewhat cloud
the rest of the day. Earth shadows a
Ben Nevis Shadow seen at sunrise

to m. 3
writing

August 16th 1898

90

Sky overcast or nearly so till 21^{hrs} =
cloudless since. Fog hanging about the
vallays most of the day. Aurora seen
at 22. 23^{hrs} =. A. Sheep seen at first
gorge at 7^{hr} =. J. miles up & D. Grant down

August 17th

Cloudless sky till 7^{hrs} = cloudy or
fog on summit till 21^{hrs} = cloudless
again since. Fog in vallays all day
and rising about noon above the
summit. Slight haze in distance
all day. Aurora seen at 1 & 2^{hr} =
shooting stars at 1^{hr} =. Hoare frost
on Office roof in early morning.
Erick shadow and Ben Davis shadow
seen at sunrise.

18th August

Temperature rising all day very warm
in afternoon (42° to 50.5°) Fog or
cloudy sky with occasional gleams
of sunshine. Fog all round most
of the day.

19th August 1898

91

Sky overcast and thick haze around all day. Air very dry in the evening the lowest humidity being 46 at 22^{hrs}. Mr. Hardie down at Fort William today.

August 20th

Mist all day with showers between 1 + 2

August 21st

Mist clearing at intervals between 6 + 7^{hrs} and again at 20^{hrs}. A shower of rain at 7^{hrs}. Mrs. Arthur came up in early morning

August 22nd

Summit clear and air dry from 11th to 14th and over 3 1/2^{hrs} sunshine recorded. Thick haze below all round.

Heavy rain after 19^{hrs}

August 23rd

Mist or fog with occasional sunny intervals. Slight showers of drizzle till 6^{hrs} and again after 20th. Temperature falling all day (49° to 35°)

August 24th

Showers of drizzle till 9th from thereafter with short clear intervals. Temperature low and fairly steady (37° to 33°)

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92

August 25th

Sky cloudless at 2+3^{hrs} but fog on hills to W + S and passing over Summit. Clear again from 9 to 18^{hrs} but dry overcast mist since with slight showers of drizzle. Temperature rising all day (33° to 43°)

August 26th

Showers of drizzling rain in the forenoon and again in the evening

August 27th

Temperature falling all day from 43 to 33. Slight drizzle in early morning and heavy showers of sleet in the afternoon

August 28th

Temperature low and steady (33.9 to 31.0) Heavy showers of sleet & hail during the day. Robinson Anemometer tied up at 8^{hrs}

August 29th

Temperature steady about 32° till 11^{hrs} rising rather quickly since. Slight showers of snow in forenoon and heavy rain in evening. Anemometer restarted at 13^{hrs}

August 30th

Mist all day with heavy showers of rain and sleet.

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Today Mr. A. Aitken went
down to the low level they
and Mr. B. M. Gillmore
Telephonist is also acting observer

August 31st

93

Temperature low in forenoon being at
or below freezing till 11^{hrs} rising a little
since, range 29° to 34° 5'. Slight showers
of snow till 4^{hrs} and rain after 16^{hrs}
Summit clear from 8^{hrs} till 11^{hrs} and
again at 15^{hrs} but sky cloudy or overcast
Robinson anemometer tried at 1^{hrs} but
started again at mid.

September 1st

Mist all day with showers of drizzle

September 2nd

High temperature with mist and heavy
rain all day

This evening Duncan Grant came up

September 3rd

High Temperature and fairly clear
all day (47 to 53) Mist with heavy rain
and drizzle till 23^{hrs} Summit clear and
air dry since. Sky slightly clouded with
Cirro-Cum. and fog in valleys all round

September 4th

Sky cloudless except for a little
Cirro-Cum. in early morning and again
in the evening. Today has been the

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warmest this year. The temperature 94 has been high all day ranging from 50.0 to 62.1 and the air very dry the humidity ranging from 40 to 61 but fog in valleys in early morning but disappearing during forenoon

September 5th

Temperature high all day but not quite so warm as yesterday (52.2 to 58.3) Sky cloudless till 11th cloudy or overcast since and fog passing frequently in afternoon. Thick haze around all day

September 6th

Another very warm day but air slightly dry. Range of Temperature 52.6 to 62.6. Sky cloudy or overcast and at times fog enveloped summit. Thick haze around all day

September 7th

Temperature high but falling showing all day 52.7 to 48.0. Fog or overcast sky with short sunny intervals. Shower of rain fell between 19 & 20^{hrs}

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September 8th

95

Summit clear from 21⁰⁰ but sky overcast
 Slight showers of rain during the day
 Today J. Misset went down to low level and Robert McConagall came up
 Three snow buntings seen on Buckle stage

September 9th

Mist or overcast day with showers of rain

September 10th

Occasional Showers of rain during the day

September 11th

Mist all day with heavy rain in the
 afternoon. Stars gleaming at 1⁰⁰

September 12th

Temperature low all day (32 to 36)
 Showers of sleet in forenoon and rain in
 the afternoon ... The Telephone Clerk
 Mr McCallum was found dead by two
 visitors about 10⁴⁰. He was lying in a
 hollow about 2 ft off the path on the opposite
 side of road from the cliff and about
 20 yards west from 1st Gorge. When the
 fact was reported to the observers, he was
 brought into the Observatory. In the afternoon
 a Sergeant of Police came up, also a
 squad of men and the body was
 carried down to Fort Williams in the
 evening. Today R. McConagall and Stuart
 went down to Ft. Williams and L. S. Bell came up

September 12th
 Sparrows seen on
 office roof

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September 13th

96

Mist all day with drizzle till 15th
Bureau Grant up this evening

September 14th

Temperature falling all day (47 to 35)
Heavy showers of rain till 10th clearing
overhead at times in the afternoon
Summit clear at mid and sky nearly
cloudless and air dry.

Today J. Miller came up and L.S. Begg
went down

September 15th

Summit clear till 3th but sky
pretty cloudy. Mist with showers of
drizzle since

September 16th

Mist till 11th sky almost cloudless
since but thick haze below all round
light variable winds all day chiefly S^W

Aurora seen at 21th

September 17th

Sky cloudless till 4th cloudy till 15th
Mist since with heavy showers of rain
Temperature high (48 to 56) strong S to SE
winds all day and rather squally. Thick
haze below. Aurora seen from 1 to 3th and
Zodiacal light at 4th Today Robert
MacDougall came up and Bureau Grant
went down to low level Observatory

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September 18th

97

Temperature falling all day from 48 to 30. Heavy showers of rain in forenoon and show in afternoon. Snow is lying on Summit to a depth of 2 inches. Robinson Anemometer tied up at 12^{hrs} St Elmos fire seen at 22^{hrs}

September 19th

Summit clear at times during the day, with sunny blinks. Temperature below freezing point till 9th rising steadily since. Showers of rain in evening.

September 20th

Exceptionally heavy rain all day. The following are the higher hourly values during the day. The total amount of rainfall for the 24 hours being 5.367 and giving an average of 0.224 per hour.

6-0.607	The total amount 24 hours being an average of
13-0.334	
14-0.707	
15-0.835	
16-0.509	
Total 2.992	

September 21st

Mist with slight showers of drizzle till 6^{hrs}. Thin fog and clearing at times and in the evening sky appeared to be cloudless. Air dry a little at 19^{hrs} and mist. Three quarters of an hour sunshine recorded during the middle of the day.

1898

September 22nd

98

Sky almost cloudless all day and air very dry at times. The humidity ranging from 87 to 31. Fog in valleys in forenoon but clearing away during the afternoon. Slight haze in distance all day. Faint Aurora seen from 21^{hrs} to mid

September 23rd

Day fine and warm all day. This sky was slightly clouded during the day with Cir nearly 10 1/2 hours. Sunshine was recorded. Haze all round but thicker in the afternoon. Air very dry all day and fairly steady. The humidity ranging from 30 to 49. Aurora seen from 1^{hr} to 4^{hrs} and a Solar Halo at 12 + 13^{hrs}. Light N^W air or Calm all day.

September 24th

Temperature high and air very dry all the humidity ranging from 44 to 27 p.c. Day perfectly cloudless all day. Fog in valleys during the day but clearing away

1898

towards evening. Light variable 99
 air or Calm all day. Aurora seen
 at 2⁴⁰ and 3⁴⁰ and again at 22⁴ 23⁴⁰
 and midt. Haze in valleys all day.

September 25th

Another very fine day. High
 temperature and air very dry all day
 the humidity ranging between 29
 and 41 percent. Fog and haze in
 valleys all day. Aurora seen
 at 1. 2. 3 & 4^{Hrs}

September 26th

Though sky was slightly clouded
 all day the weather was very fine and
 warm and air very dry. The lowest
 humidity being 30 at 10⁴⁰. Fog and
 haze in valleys most of the
 day. Since 22⁴⁰ summit has been
 enveloped in fog but moon
 gleaming at times. Light to
 moderate S to SSE² winds all day

September 27th

Fog or mist with rain since
 19⁴⁰. SE² or S² winds all day. Strong in
 early morning. Temp pretty steady all
 day. (35 to 38)

1898

100

September 28th

Heavy showers of snow and hail almost all day. Summit has now a good coating of snow the depth being from 4 to 5 inches. A brilliant display of St Elmo's fire seen at 34 ⁴⁴⁰ on instruments on roof of Tower Kitchen chimney Thermometer Caddens and Snow Post and Hotel chimney could be seen distinctly all a glow from Observatory roof, also a sheet of corrugated iron which was lying flat on ground half way between Hotel and Observatory was shooting out jets of flame. Anemometer stopped at 4 ⁴⁵

Sept^r 29th

Mist or fog all day. Showers of sleet and snow in afternoon & rain at night.

Sept^r 30th

Temperature rising slowly all day. (34-38). Drizzling rain till noon, and summit clearing at times in evening. Anemometer started at midnight.

1898

October 1st

101

Clear and sky cloudy from 2nd till 4th. Mist and heavy drizzling rain then after.

Today the Refreshment rooms on the summit were closed for the season.

M^r Andrew Hunter arrived at the obse. and M^r Miller and Dan. Fraser (Telephonist) went down to Fort William today.

October 3rd

Temperature high and showing a large range (45°-58°). Mist at 1st; summit clear and sky perfectly cloudless the rest of the day. Fog all round below to about 4000 ft. In forenoon, gradually sinking and dispersing in evening.

Lunar Corona at 1, 2, 43rd

October 4th

Sky cloudless most of the day. Haze in valleys, and fog over Lochail, Loch Lohy and Lochlinake, clearing away about mid-day.

October 5th

Absolutely cloudless all day. Slight haze in valleys, and fog lying over Lochail all morning. Humidity 56-69°. Barometer pumping from 12th till mid.

1898

October 6th

102

Haze and fog in valleys, and fog blowing across summit occasionally in forenoon.

A strong SE ⁴/₅ breeze with a velocity of 40-50 miles per hour blew throughout the day.

Barometer pumping all day

October 7th

Sky cloudless till noon, and again for a few hours in evening. Mist after 20 hours. Aurora seen at 20^{Hrs}.

Barometer pumping till noon.

October 8th

Clear and cloudless from 11^{Hrs} till 14^{Hrs}, mist till 21^{Hrs}, when top again cleared again and sky was cloudless.

Barometer pumping slightly all day

October 9th

Cloudless for a few hours in early morning, but fog passing.

Glow seen at 8^{Hrs}

Bar pumping till 13^{Hrs}

October 10th

Summit clear, but sky cloudy from 12^{Hrs} till 19^{Hrs}. Mist the rest of the day.

October 11th

Fog in valleys all day, and passing over summit at times. Hoar-frost on roof in early morning. Deer howling in Glenais at 6^{Hrs}.

1898

October 12th

103

Temperature rose steadily till 14^{hrs} (30°-39°) and fell again to 31° at mid.^t

The sky was cloudless till 12^{hrs}, but overcast all evening, and cloudless again after 23^{hrs}.

Thick fog lay over Lochail, Lochlaggan, and the Caledonian Canal all morning but dispersed towards midday.

October 13th

The summit became enveloped in fog at 1st and remained so all day. Temperature 31°-34°.

October 14th

Mist with drizzling rain at times during the day, and showers of snow at night. Anemometer tied at 21^{hrs}.

October 15th

Strong E or ESE^{ly} breeze all day.

The summit was clear, but sky overcast and fog passing from 18^{hrs} till 21^{hrs}.

Today Mr. A. Hunter left the Observatory and Mr. C. Grant came up.

Barometer pumping slightly all day.

October 16th

Clear most of the day.

Fog on hills all round and passing over summit occasionally.

Nine Snow-buntings were seen at the Hotel door at 10^{hrs}.

1898 October 17th

Fog all day except at 2nd 11th 104

Strong squally E^{ly} winds all day.
Snow fell heavily from 12th till midst &
was drifting all evening.

2 burtings seen at 15th

Barometer pumping all day.

October 18th

The strong breeze which blew
throughout yesterday, continued today
reaching a velocity of 85-90 miles
per hour at 3rd, moderating towards
evening. Snow fell till 6th Bar. pumping

October 19th

Clear and cloudless at 3rd.
mist the rest of the day, and
drizzling rain at night.

October 20th

Squally SE^{ly} winds all day
and drizzling rain at times.

October 21st

Mist all day, and heavy
drizzling rain from 6th till 16th Temp-
erature (37°-40°)

October 22nd

Squally W or SW^{ly} winds all
day with heavy showers of rain.
Lightning seen at 18th

1898 October 23rd

105

Mist with slight showers
of snow and sleet during the
day.

October 24th

Fog all day with heavy showers
of snow.

October 25th

Temperature rising till 17^{HTD}
(28°-41°) falling again to 33° at mid.
Showers of snow till 8^{HTD} and rain
thereafter. Glazed frost at 9^{HTD}.

October 26th

Mist with showers of sleet
and hail during the day.

October 27th

Temperature very steady all
day (32°-33°). Light showers of sleet,
and drizzle at times.

October 28th

Fog all day. 4 Ravens
seen flying about summit at 12^{HTD}.

October 29th

At 2^{HTD} the fog fell below the
level of the "Ben", but continued passing
till 5^{HTD}, after which the air became dry
and warm. 7 Buzzards seen at 7^{HTD}.

1898

October 30th

106

Fog or Mist all day, with
rain, sleet, and a snow after 8 Hrs
Fog crystals forming at 2 Hrs

October 31st

Mist all day with sleet,
drizzle and rain. Glazed frost
at 9 Hrs

From 50 to 60 persons climbed
the Ben in October.

November 1st

Temperature rising slowly
all day. (27-36) Fog till 12 Hrs and mist
thereafter. Heavy showers of snow and
sleet from 9 Hrs till 18 Hrs and then very
heavy rain till midn.

At 15 Hrs. about 8 inches of snow lay
on the summit. Bar. pumping 12 Hrs till midn.

November 2nd

Mist, squally westerly winds,
and heavy rain all day.

Barometer pumping slightly all day.

November 3rd

Temperature falling slightly.
Fog all day except at midn, when sky
was overcast & fog passing.

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

S! Elmo's fire (very bright) seen at 21st & 22nd Hrs

1898

~~October~~ November 4th

107

Bar. pumping slightly all day.

Fog and heavy showers of snow all day. Strong earth currents in telegraph cable all morning, and telegraph bell ringing loudly at times.

Thunder was heard a few minutes after 2⁴⁵. St. Elmo's fire heard at 5⁴⁵, when it was also seen faintly, and seen again at 21⁴⁵.

November 5th

Fog and light N.W. ^{by} air all day. St. Elmo's fire at 7⁴⁸.

Heavy showers of snow during the day. At 15⁴⁵ the depth was about 9 inches.

November 6th

Thin fog all day

November 7th

Mist with slight drizzling rain in early morning

November 8th

Mist till 11⁴⁵; clear, air dry & sky almost cloudless the rest of the day, with thick haze in valleys.

Temperature 30°-36°.

A number of Snow-bunnings were seen at bucket-stage at 16⁴⁵.

1898

November 9th

108

Sky cloudless all day, except at 7th + 8th when the summit was enveloped in fog. The temperature was very high during the day, being 42° at 13th (Daily range 33°-42°)

Some patches of fog lay about hills to SE in forenoon, but disappeared early in afternoon.

Lunar coronae seen at 5th + 6th

November 10th

Temperature high and fairly steady all day. Sky cloudless till 5th fog till 13th and almost cloudless the rest of the day, with thick haze in valleys all round.

November 11th

Fog from 16th till 20th, clear & sky slightly clouded the rest of the day. Fog lying over Lochail and Loch Lohy all forenoon. A number of Snow-buntings were flying about summit all day.

November 12th

Clear till 6th fog the rest of the day, with showers of snow in evening. A strong Southerly breeze blew all day.

1898

November 13th

109

Slight showers of snow till 6 hrs. Summit clear most of the day, with fog passing occasionally. The air was dry only for a few hours in afternoon.

Barometer pumping at 1 hour.

November 14th

Temperature fairly steady all day (25-32) Clear till 3 hrs and again at 15th & 16th

Glazed frost from 5th till 9th and again at 17th

November 15th

Fog all day with slight showers of snow at times

November 16th

(29-41) Temperature rising all day
drizzling rain all evening

November 17th

Mist with heavy drizzling rain most of the day

November 18th

Mist or fog except from 6th till 9th incl when sky was cloudless but fog below and passing summit now and again.

1898

November 19th

110

Mist till 5^H. Summit clear and sky cloudless during the rest of the day; but thick fog all around below the upper limit being from 3000 ft. to 3500 ft. above sea level. In the afternoon this fog broke up in places showing thick haze underneath.

Air very dry and temperature high. Snow-buntings seen in forenoon, three and four at a time.

Mr. Randin arrived at Observatory today and Mr. McCongall went down.

November 20th

Cloudless, summit clear and air dry till 5^H. Fog during the rest of the day with showers of snow in the evening.

November 21st

Temperature falling all day from 24° 4' at 3^H to 12° 6' at midⁿ. Showers of snow, and fog on summit or passing till 18^H.

Clear thereafter but air continued saturated. Lunar coronas seen at 18^H & 19^H and the Aurora from 20^H till midⁿ. Ravens seen in Nⁿ Corry at noon.

November 22nd

Aurora seen at 1^H. and Solar Halos at 11^H and noon. Summit clear all morning fog all evening. Strong SE gale after 21^H. Thermometers used at 23^H and midⁿ. Temperature was low 12.6 to 17.3 There were

1898

No rain gauge observations made after 2nd 111
owing to the high wind and heavy drift.
Values interpolated on monthly sheets for those
hours.

November 23rd

The gale continued till 2 pm but
moderated a little in forenoon. The tower
thermometer continued in use and no rain gauge
observations were made till after 7th.
The wind backed to NE in evening and the
temperature rose several degrees.

During the height of the gale the snow
drifted into the kitchen and the bedrooms
off it and about a ton of snow filled the
outer lobby and passage.

The temperature on N. wall of kitchen fell to
31° 3. and the water froze in the water
tins. In the office at 3th a dry and wet-
bulb in small glass cupboard read ^{82.90} 25.1
and two hours later the temperature in
large cupboard fell to 27° 7.

November 24th

The wind veered to ESE after 3H and blew
a moderate gale till 10H. The tower thermometer
was in use from 5H till 9H incl. Snow fell
heavily but no rain gauge observations could
be made till after 11th.

November 25th

Fog all day. Showers of snow in early
morning and after 18th. H. measurements at-
night are doubtful as there was heavy drift
with a squally N & NE wind.

1898

November 26th

112

Squally Nly winds and drift all morning
Thin fog in early afternoon. Summit clear
later but sky overcast. Lunar corona seen
at 19^h

The small winter pattern Stevenson screen
was mounted on ladder No. 2. after 19^h
by 53552+1 Met-53552+2 and min 108531A were
put out. Readings were taken of both sets
till mid! after which the old box was
discontinued and the ladder box readings
entered on records.

November 27th

Squally Nly winds most of the day.
Causing much pumping in barometer: and
considerable drift. "Junks of snow flying about"
is remark on 14^h hourly form.

November 28th

Temperature falling all day 19° 6 at 3^h and
11° 3 at 22^h
N. or Nly wind all day light to moderate except
in a squall that began about 5^h 30^m and
ended about 6^h. About 7^h 10^m it was blowing
almost a hurricane shaking the house to
its foundations. The door was blown off
the large thermometer screen - the only damage
done.

Lunar coronas seen at 6^h 7^h 19^h & 20^h.
No range observations made at 4^h 5^h & 6^h.

November 29th

Cloudless till 3^h. Overcast from 6^h till 9^h fog

1898

during the rest of the day.

113

Temperature rising steadily all day.

The wind backed during the forenoon to Sw by 15th and veered later to N again. Lunar Corona at mid.November 30th

Temperature rising all morning: at or above 32° from noon till 18th falling thereafter. Snow and sleet in morning rain about midday and sleet and snow again at night.

December 1st

Very heavy rain all evening. Temperature rising all day 27th to 36th. Glazed Frost in morning. Kitchen roof leaking badly at night.

December 2nd

Temperature falling. Glazed frost noted at 5th and 8th.

December 3rd

Very heavy rain in afternoon. Glazed Frost at 13th and 14th. Lunar Coronas at 6th and 7th. Earth currents affecting Bell at 20th 51st.

December 4th

Mist and rain all day. Glazed Frost at 2th and 3th.

December 5th

Mist with heavy showers of sleet and snow. Very large soft snow flakes fell about noon. The temperature then was 32nd 7. Some flakes covered an area of 1 1/2 in x 1 in.

1898 December 6th

114

Mist or fog with rain hail and snow.
Telephone Bell rung several times by Earth-Currents
during the evening.

December 7th

Fog and snow.

St Elmo's Fire seen at 3^h and 4^h and telephone
bell rung by Earth Currents at 3^h 58^m and
5^h 33^m.

December 8th

Fog in early morning and at night. Summit
Clear, air dry: and sky somewhat cloudy
with Cir-5 during the day. Thick haze
below in evening.

The wind veered from NE to SE during the
forenoon and blew a moderate gale
at night. Heavy snow fell from 2^h till mid!
but owing to the drift the rain gauge
could not be worked.

Solar Halos at Noon and 13^h.

Snow fog crystals forming at 20^h.

Ben Shadow seen at 9^h.

all forenoon the Wth and SWth horizon
was of a clear blue colour.

December 9th

Fog and Snow.

St Elmo's Fire seen at 2^h. A Ring in telephone
at 6^h 10^m - earth currents.

December 10th

Mist or Fog with heavy rain hail and
snow. Earth currents in Bell at 3^h 9^m and 4^h 47^m.

Thermometer Box changed after 8^h
Dry 53.5321 Wet 53.5342 were put.
Obs. Heights not altered

16^h obs made
at 16^h 7^m

1898

115

December 11th

Mist all day. Very heavy rain all morning and drizzle in evening. The hourly amounts measured at 2nd and 3rd were respectively 0.604 in. and 0.674 in.

December 12th

Mist, high temperature and heavy rain with W. or W.S.W. winds all forenoon. Temperature falling, wind backing to NE with fog and slight snow in afternoon.

December 13th

Fog in morning. Temperature rising. mist and drizzle and wind backing in afternoon. Glazed frost from 17th to 20th. A Horse was brought up to the Obdy. today - the road being quite open all the way.

December 14th

High temperature, mist and rain in morning. Temperature falling, and wind backing to N and NE with fog and snow in afternoon.

Earth currents in Bell at 20th 4^{pm}.

December 15th

Temperature rising and wind backing at night.

December 16th

Mist and rain or drizzle till 16th. Fog and snow at night.

21st obs made at 21st 15^m - Bell. Observed heavy at-
tack, and did not notice the time.

1898.

December 17th

116

Fog and Snow. till 19th Temperature rising quickly thereafter with mist and heavy rain.

December 18th

Mist and heavy rain till 5th.

Fog hail and snow during the rest of the day. Yesterday (the 17th) there was no snow to measure at the snow gauge - the latest date in this respect on record here.

December 19th

Fog and heavy showers of snow all morning. Clearing in evening but wind very squally causing much drift.

December 20th

Summit clear till 8th. Fog, heavy showers of snow and temperature rising during the rest of the day.

Thermometer box changed after 8th. Dry 535541 and wet 535542 put out. height not altered. i.e. the Box is still in the lowest step of the ladder.

December 21st

Mist on summit all day except at 20th 21st and 22nd when it sank leaving sky cloudless and summit clear. Glazed frost at 8th and 10th. A Fogton seen at 11th. And Runner Coronae at 17th and till 22nd.

The Coronae had
3 and 4 times
4 readings

1898

December 22nd

117

Fog and squally SW^{ly} winds most of the day. Fog very thick and forming fog crystals all morning.

December 23rd

Mist most of the day with temperature from 29° to $31^{\circ}6$. and sleet hail and snow falling. A very thick coating of a mixture of snow and ice has formed on all exposed surfaces (mainly S.W.) Winds strong and squally.

December 24th

Mist or fog all day. Glazed Frost noted at 5^h 6^h and 11^h.

21^h Observation made at 21^h 3^m.
Mr. McDougall arrived, and Mr. Grant left this
Observatory today

December 25th

High temperature, mist. Heavy rain and squally southwesterly winds.
The amount of rain measured at 23^h for the previous hour was 0.536 inch.

December 26th

The gale of squally SW^{ly} wind continued till 4 am when it veered to NW and moderated, but backed to SW and S again at night.
Thunder and lightning noted at 11^h 37^m.
Temperature falling quickly all forenoon.
Heavy showers of snow hail fell at and after 12^h.

1898

Summit Eclipse from 22nd. The phenomenon
could not be observed owing to thick
fog.

December 27th

118

The wind was very squally all day,
at times blowing a gale. As the Observer
Lamp was blown out at 5th the temperature
was taken from the Tower Screen.

The rain-gauge was not changed from 5th till 19th.
During part of this interval snow fell heavily.
Barometer falling rapidly till 16th when the
lowest pressure this year to date was recorded
namely 23.960 inches. A rapid rise set in after
19th.

The wind directions in this storm are peculiar.
Mr. J. S. Begg arrived here and Mr. McDougall
went down to the L.L.D.

December 28th

Summit clear at times in forenoon, sky overcast
and banks of fog around the Ben.

Showers of snow all day.

Earth-currents (strong) ringing Bell between 16th & 17th.
Thermometer Box changed at 8th 45th Dry 192677
and Wet 192672 put out; Min: reading 23° 0. Height
of Box not altered. Cold Band very strong at 15th

December 29th

Summit clear except for thin fog hanging
about at a few times in morning and night.

Sky partly covered with cir-^s in forenoon but
cloudless in evening. Radiating fronts WNW & ESE.

Summit Coronae seen at 1th and 3th and Halos
at 6th and 7th.

Clouds like "Pearly Cirrus" seen in Eth sky at 7th.

Thermometer Box changed at 4th 20th.

Dry 535541 and Wet 535542 put out. ad.
same height as before. W. Mass of Glaciers spent
night at Chetoy.

1898

December 30th

119

Summit clear and sky cloudless most of the day, the air being dry from 11^h till 23^h. Thin cirrus gradually overspread the sky after 20^h and fog (thick) came on at midn^t.

The wind backed after 13^h to S and later to SE steadily increasing in force to a moderate gale at midnight.

Lunar Halos seen at 22^h and 23^h and a lunar corona was noted at 14^h.

At 22^h thick haze was seen in distance to SE, S. and SW. At 23^h this haze was all round and very dense.

Thermometer Box changed ~~after~~ at 10^h 20^{sec}.

Dry Bulb 192677 and Wet 192672 were put out (Hum. read 17.0) Height not altered.

December 31st

Fog all day forming dark foggy halos on all windward surfaces.

SE gale at times exceeding force 11 blew till 14^h. Some snow fell during the gale but no measurements could be made.

From 6^h till 10^h incl, the tower thermometer was used with a correction of +0.5.

During the year the following instruments have been in use.

Barometer: No 1385

Thermometers: Dry Bulbs 192677 and 535541
Wet Bulbs 192672 " 535542
Max: 117293.

Min 116918 and 1108531A, ^{the Type}
And occasionally the Storm Thermometer in the Type.

Up till the of and since the 26th of November the thermometers were exposed in the small pattern of Stevenson's Screen on the ladder stand (No 2), and between these dates in the large screen 4 ft above the ground.

Richards' self-registering aneroid Barometer has been in use throughout: also

Campbell-Stokes Sunshine Recorder.

Robinson's Anemometer. - in summer only.

Hilgers pocket spectroscope.

The Large Dust Counter (On Tripod) and the Camera (in Spring)

The same pair of Six inch rain-gauges have been in use summer and winter.

The Depth of the snow has been measured at Post A. throughout.

The anemograph clock continues the standard clock for time at the Observatory. It is checked every morning by time signal from Fort William & Post Office at 10th.

Communication with Low Level Observatory and Post Office has been maintained by telephone - the instrument giving every satisfaction.

The Mid Station was open in July and August. when observations were made by Messrs Muir, Irons and Arthur.

The Regular Staff of the Observatory has been - A. Rankine, J. Miller, R. H. McCongall, D. Grant and J. Neil. From March till October D. McKenzie acted as Roadman and Ticket collector.

The following have assisted at various times viz - Messrs J. S. Begg, D. Milson, W. Bartlett, A. Arthur, and A. Hunter. Messrs S. McGillivray and D. Fraser acted as clerks in charge of the telephone during July, Augst & Septth.

The outside woodwork of Observatory has been all painted: Part of building recovered with new tarpaulin. and in the Tower the ladders and flooring have been repaired.

1899

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January 1st

Fog all day. Wind chiefly S.E. and blowing a moderate gale at and after 18th.

Fog crystals slightly brown forming all day.

Depth of Snow at Gauge 11 inches. 1st obs. made at 11th ~~am~~.

At 19th Observer's lamp was blown out at the thermometer box and the reading of the tower thermometer was taken instead of the usual reading outside.

January 2nd

Thick fog till 14th clear thereafter but sky cloudy or overcast.

Wind blowing a gale in early morning but moderating and backing during the day. Part of Solar Halo and a "sun pillar" seen at 15th. Also a ^{glory} Cold band very strong.

Thermometer box changed after 16th. Dry 535341 and bar 535342 put out - height not altered.

January 3rd

Bright meteor seen about 1st 2nd - path from Moon in a SSW direction.

Mist or fog almost all day.

Glazed Frost at 19th.

January 4th

Fog and heavy showers of snow.

Wind somewhat squally from 11th till mid.

January 5th

Fog and showers of snow till 18th Clear and almost cloudless thereafter.

1899

St Elmo's Fire ~~seen~~ heard at 12th - heavy snow hail 123
falling at the time.

Telephone Bell disturbed by lightning or earth
currents at 2nd 55^m, 3rd 16^m, 6th 0^m, & 7th 1^m

At 9th 5^m the reports of Blasting on the
Mallory railway were heard.

Thermometer box changed after 19th Dry 192677⁺
Met 192672 put out - height not altered.

Some unusual lights as of a bonfire or
burning houses seen all night at Lookout
Side.

The 4th obsⁿ was not started till 4th 11^m

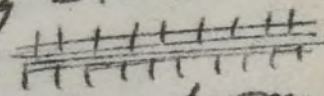
January 6th

Sky overcast with cir-s but summit clear
and air dry till 7th Fog thereafter - the upper
clouds gradually thickening and descending
into stratus and fog.

Strong S.E. gale till noon: from 8th till 11th
inclusive no outside obsⁿ was made - the
temperature readings being taken from the
tower thermometer. Snow was apparently
falling from 7th 30^m but owing to the
gale and snow-drift no rain gauge
observations could be made.

January 7th

Fog till 4th and after 13th Fine and clear in
the interval: but det. fog on lower hills.

The current at 9th was lying E. and W. with
hands lying at right angles E.  W
at 11th the direction of motion was from W.

Thermometer Box changed at 5th 12^m Dry 535541
and Met 535542 put out; height not altered

1899 January 8th

124

Fog till 19^h. Mist and rain thereafter.
Fog crystals (dark) forming most of the day
and glazed frost at 20^h.
Fog breaking at times about 8^h showing a
bank of yellow-brown Cumulus to SW.
Strong SE. winds all day blowing a moderate
gale at times.

January 9th

Mist and rain till 6^h with squally Southerly winds
at times blowing a moderate gale.
Summit clear except for passing fog at times till 15^h;
fog during the rest of the day.

Sky overcast with Cir-s on which a Solar Halo
was visible at 11^h 40^m and 13^h.

At 11^h the Nth horizon was of a green colour.

January 10th

Fog and showers of snow.
Wind veering from SSE in early morning to SW in
afternoon - Strong ~~and~~ breeze or gale till
6^h moderate to light during rest of day.

Raven seen at 9^h.

January 11th

Fog till 23^h. Thereafter a mist mist
forming glazed frost. Came on - the temperature remaining
low, being between 22° and 23° all afternoon.

January 12th

Heavy showers of snow and much drift
the wind being strong all morning from SE and squally
in evening from N. & NE.
The snow falling at 16^h was in form of small icy notes.

1899

January 13th

St. Elmo's Fire seen at 19th sn-hail falling then 125
"Snow very fine" at noon.

January 14th

Flakey snow falling at 4th.
at 5th observer noted that the "fog feels like mist" - the
temperature at the time being 24.3.

The top joint of ladder stand was found on surface at
17th having snapped off at the bolt holes - probably in
a strong Nly squall.

Several short rings were heard on Bell between 19th & 20th
but the cause remains doubtful.

January 15th

Summit clear from 8th till noon inclusive - sky
overcast with stratus and bits of fog low to W⁵.

at 5th misty feel in air temperature 22.9.

Thermometer box changed at 8th 30^m and raised one
step on stand. Dry 192677 and Wet 192672 put out.

Snow and fog changed after 20th to mist and drizzle
these latter conditions obtaining on Summit at 21th
when snow and sleet were falling at sea-level.
St. Elmo's Fire very faintly on pencil tip at 23th - large
soft flakes of snow falling at time.

January 16th

Squally W^{ly} winds all morning veering to N and
NE in afternoon.

Flashes of lightning seen at 2nd 42^m, 5th 25^m and 5th 35^m.
A very heavy shower of hail fell after the first flash
the hailstones being round and formed of ice and snow.
Rings on bell at 3rd 48^m and 3rd 57^m and at about times when
lightning was seen.

Clearing in afternoon.

Glowy sun at 16th

Thermometers changed (not box) Dry 535541 and Wet 535542
put out. Ring on bell at 17th 31^m

1899.

January 17th

126

Summit clear except for thin fog at times.
Sky covered with cirrus in evening on which a lunar
halo was seen at 20^h and 21^h.
Wind N. during the day but backing to SE at night.
Mr. R. H. McQuigley arrived today. Mr. Begg left to go down
but had to return owing to the slippery condition of
the snow below Buchanan's Well. He lost his hand bag.

January 18th

Somewhat stormy with fog and snow in morning
and rain and mist in afternoon.
Glazed frost forming at night.

January 19th

Fog and snow all day.
Mr. Begg left this morning.

January 20th

Summit clear from 14^h till 18^h.
Thermometer box changed at 15^h 15^m. Dry 192677 and
wet 192672 were put out. Height not altered.

January 21st

Heavy snow and drift with strong S.E. winds
in early morning.

The Tower thermometer reading was taken with a
correction of +3 at 4^h as the observer did not go
to the Thermometer box.

At 4^h and 5^h the entries for rainfall are inter-
polations - as the rain gauge was not changed
at 4^h.

January 22nd

Squally winds; fog; heavy snow and
considerable snow drift.

1899

127

January 23rd

Fog on summit stay till 16^{hrs} Cloudless thereafter. Temperature ^{low} and steady all day (15.3 to 19.6) Air dry after 19^{hrs}. Light N^W or N^{NE} winds. Lunar Coronae at 4^{hrs}. Bar changed at 13^{hrs} 10^m by 535541 + wet 535542 put out. Height not altered.

Today J. Miller came up & A. Rankin went down

January 24th

Summit clear at 1 + 2^{hrs} Fog till 5^{hrs} Cloudless thereafter except at 16^{hrs} when there was thin fog on. Air dry after 10^{hrs} lowest humidity being 38 at 23^{hrs}. Fog on hills all round most of the day at 18^{hrs} sky quite cloudless down to horizon light N^W or N^{NE} winds till 16^{hrs} backing to S + SSE since. A Lunar Corona at 6^{hrs} and a double fog-bow seen at 15.20

January 25th

Sky cloudless & nearly so all day. Fog on hills to Wst till 5^{hrs} spreading round to S + SE and apparently passing over Summit about 9^{hrs}; the air being saturated at that hour. With the exception of 9^{hrs} the air has been very dry all day

1899

128

the humidity at 21^{hrs} being 15. A strong S^W to S S E^W wind has been blowing all day and causing a good deal of surface drift. Thick haze in valleys all day

January 26th

Sky somewhat cloudy and thick haze in valleys all day. Temp low and fairly steady. Air remarkable dry range 46 to 11. Strong winds all day veering from S to S W in the afternoon. Lunar Halo seen at 23^{hrs} + Midnight

January 27th

Temperature rising till 2 p.m. from 24.6 to 32.5 fairly steady since. Air very dry all day the humidity ranging between 37 to 10 p.c. A little cir & cir. S on sky all day. A slight haze in valley most of the day. Light S W winds veering to W & N in afternoon falling calm towards midn. Lunar Halo at 20 & 21^{hrs}

1899

129

January 28th

Sky cloudy and at times overcast with Cir & Cir-S till 19th fog since. Air very clear in forenoon especially to W^d the outer Hebrides being seen. Humidity slow till 18th ranging between 61 & 19 Air Saturated since.

No fog on hills till 16th when it began to form to NE and spreading round to N & E and enveloping summit at 20th.
Calm or light N² winds all day becoming slightly gusty about midt.
Lunar halos seen at 1, 2, & 6^{hrs}

January 29th

Fog or overcast sky till 9th a little cloudy with Cir & Cir-C till 20th; thin fog since the stars being seen at times but fog on hills around most of the day. Air a little dry from 11th to 18th.
Light showers of snow fell till 5th.
Bot changed at 10th by 192677 & wet 192672 put out. Height above snow 45 inches

1899

January 30th

130

Fog all day. Light N^W or NE^W winds and calm till noon veering to E and ESE since.
Barometer & Temperature falling slowly all day.
Lunar Coronae seen at 4^{hrs}

January 31st

Summit clear at 4^{hrs} and till 6^{hrs} but sky cloudy and fog all round to 4000 ft and passing at times at 6^{hrs}. Summit again clear at 22^{hrs} and night and sky almost cloudless but great banks of fog all round and rising higher than the hill tops and passing over the summit frequently.

Air dry at 5 + 6^{hrs}. Light ESE^W winds till 2^{hrs} veering to W by 6^{hrs} N^W or NE^W since rather squally. Temperature low and showing fair range

Two Visitors have ascended The Ben during January

1899

February 1st

131

Thin fog till 3⁴⁵ Summit clear frequently thereafter till 14⁴⁵ with bright sunny intervals. Clouds at night but thick fog all round high up and passing. Temperature low and pretty steady (19 to 15). Air dry at 14⁴⁵. Squally N² or NE² winds all day. Bar changed at 12¹⁰ by 535541 wet 535542 put out. Height above snow 44 inches

February 2nd

Summit clear almost continuously from 2⁴⁵ till 11⁴⁵ except for some fog passing at times and sky cloudless. Thin fog since 12⁴⁵ the sky overhead being seen frequently and apparently cloudless. Temperature low and pretty steady all day range (18.0 to 14.7). Air slightly dry at 10⁴⁵. Light N² or NE² winds squally at times. Thermometers changed only at 8¹² by 192677 + wet 192679 put out.

1899

February 3rd

132

Temperature low and showing fair range (22.6 to 14.0). Sky cloudless at midn and apparently a good deal of fog all round. Light N or NE winds till 10^{hrs}. Calm since.

February 4th

Sky cloudless and air very dry till 5^{hrs} almost cloudless again after 15^{hrs} and air dry at times. But fog on hills & passing over summit at intervals. Somewhat hazy below all round. Light SE winds all day. But changed at 0.11. by 535541 + wet 535541 put out.

February 5th

Calm or light SE winds till 5^{hrs} N or NE till 12^{hrs} veering to E & ESE and increasing in force to a gale after 20^{hrs}. Air dry from 7 to 12^{hrs}. Fog off and on summit all day. and sky slightly cloudy in forenoon but apparently cloudless from 17^{hrs} till 22^{hrs}. Temp falling pretty steadily all day (23.2 to 10.6). Bar pumping at 23^{hrs} + midn. Strange light seen as of a bonfire or houses burning at 20^{hrs} at North end of narrows on Lochail side (Annat). No lights seen at 21^{hrs}.

1899

February 6th

133

Strong ESE^{1/2} gale till 11^{hrs} Moderating in force thereafter. Fog all day very thick in afternoon. Fog breaking at times during the day. Fog crystals forming all day. Temp low in early morning but rising steadily all day.

February 7th

A. decided rise in the temp today from 21 to 29. An ESE to SE gale. Wind steadily rising in early morning reaching its max force (E) at 9^{hrs} falling in force thereafter. Thick fog all day. Some drift in forenoon. Barometer falling till 12^{hrs} somewhat unsteady since. Snow began falling at 23^{hrs} at mid 0.009 in gauge. This is the first fall of snow this month.

Barometer pumping till 10^{hrs}

February 8th

Clear at 14 & 15^{hrs} but sky a little cloudy. Some sunshine recorded at 15^{hrs} Strong SE^{1/2} winds almost all day and at times reaching full force but veering to SW^{1/2} at 23^{hrs}. Slight showers of snow in early morning but rather heavy

1898

134

showers after 17^{hrs}. Ice crystals forming during the day brown in colour. Barometer pumping almost all day from 17^{hrs} till midt entries for rainfalls are interpolations. as the rain gauge was not changed owing to considerable drift. Rain gauge put out at midt

February 9th

Temp high all day. Steady in forenoon but rising in afternoon and 34° at midt. Summit clear at 14 + 15 hrs but sky overcast. Showers of snow during the day + rain after 21^{hrs}.

Squally SW and W winds till 13 hrs backing to S + SE and increasing in force. Bot shifted at 15.15^{hrs}. by 192677 wet 192672 put out. Height above snow 42 inches

February 10th

all top clear at 8 + 9^{hrs} but sky overcast with stratus. Temp high all day (34.15 29.0)

Heavy showers of rain sleet hail + snow

Strong squally winds in the evening. Thermometer Bot changed at 9.10^{hrs} by 535541 wet 535542 put out. Height not altered

1899

February 11th

135

Temperature at or slightly below 32° all day. With showers of snow, sleet, drizzle and hail. Squally SW² winds till 14^{hrs} backing to SE and increasing to a gale in the evening.

February 12th

Wind veering to SW after 1st and light in force. N or NW in afternoon but backing again in the evening to S. Summit clear at 17^{hrs} but sky a little cloudy, about 2 minutes sunshine being recorded. Summit again clear at midt and sky cloudless. Slight showers of snow fell during the day. Aurora seen (very bright) at midt

February 13th

Cloudy or overcast till 3 hrs. Continuous fog since with occasional showers of snow. Air pretty dry at 1 + 2 hrs. Strong SE² winds all day at times reaching gale force. Barometer pumping all day. Bar changed at 0.10 and raised one steep up by 192677 wet 192672 put out again. Thermometers changed only at 20 hrs by 535541 wet 535542. Height above snow 51 inches

1899

February 14th

136

Strong squally winds all day chiefly SW. Considerable drift in the evening. Heavy showers of snow and hail during the day. Summit clear at 13^{hrs} and a little sunshine recorded. Strong earth currents on telephone between 23 hr & midt and bell ringing occasionally. Lightning seen at midt. Barometer pumping all day.

February 15th

Strong squally SW winds in early morning accompanied with heavy showers of snow and considerable drift. The Rainfall entries at 3, 4, 5 & 6 hrs are interpolations. Rain gauge not in use at these hours but was put out at 6^{hrs}. Barometer pumping till noon.

February 16th

Summit clear for a few minutes at 7th, sky apparently overcast and fog on surrounding hills. Temp rising all day and being at or slightly over 32° all afternoon. Continuous drizzle since 13 hrs.

February 17th

Temperature high and very steady all day range (32-30°). Slight showers of sleet and snow. Light S or SW all 16^{hrs} veering to W and falling Calm after 21 hrs fog thinning in the evening and moon gleaming

February 18th

Fog with slight showers of snow till 16 hrs clear since but sky somewhat cloudy with Cir and Cirro Stratus. but fog on hills and rising higher than hill top and pouring over summit to E. Air slightly dry since 19^{hrs}. Lunar halo seen at 20.21^{hrs} 23 hrs & Indr. Bot changed at 17^{hrs} 15 by 192677 bet 192672 put out. Height above snow 47 inches

February 19th

Sky cloudless or nearly so all day but fog hanging about hills but clearing away in afternoon and by 18 hrs no fog visible below. Air dry all day very dry towards evening the humidity ranging between (97+16). The air also has been remarkably clear the latter stratus being seen frequently during the day. Calm or light N air all day

The halo when seen at 23 hrs seemed larger than usual, the ring being broad and complete. The lower tails of ring would be about 5 deg above horizon, and upper outside of ring extending to about 5 deg of Zenith.

1899

February 20th

Day cloudless till 16^{hrs} cloudy with 138
Cirro-cum and hard packed Cirro-str till
21^{hrs} fog since. Fog over Caledonian Canal
and hills to S^d in forenoon and on hills
to E + SE in afternoon. Air very clear and
dry most of the day; lowest humidity
16 at 7^{hrs}. ESE winds all day increasing
in force to a strong gale in the evening.
Top joint of Thermometer ladder fixed
up after 16^{hrs}.

February 21st

Strong ESE gale till 6 hrs moderating
in force then after and veering to SE + SSE
Temp rising all day. (22 to 36°). Continuous
fog till 9 hrs Summit clear at times till
14 hrs clear since but sky a little
cloudy with Cir-S on which a lunar
Halo was observed at 19, 20, 21, + 22 hrs
Air pretty dry after 16^{hrs} humidity ranging
between 88 + 36. Haze all round below in afternoon.

February 22nd

Exceptionally fine warm and almost
cloudless sky all day. Temp high range (38.5 to 49)
and air dry all day the humidity ranging
between 29 + 63. No fog below but some
haze in valleys most of the day. Moderate
S to SSE winds all day. Lunar Halo seen
at 22 + 23 hrs

1899

February 23rd

139

Another very fine day. There has been a little cir on sky almost all day and thick haze all round below. The temp has been high and showing fair range and air pretty dry all day. Humidity ranging between 32 and 65. The winds have been light from S + SSW. Weather turning to S about Glenora and Lochiel Sides.

February 24th

Fine warm and almost cloudless weather all day but thick haze all round below. Heavy banks of fog on hills to W at 2nd advancing and spreading all round during the forenoon; at 21 hrs it began to pass over summit and at 23 hrs had settled down on hill tops. Wind backing a little from S to SE in the evening light in force during the day but increasing in strength tonight. Telegraph linemen up today renewing Battery etc.

1899

February 25th

140

Fog off and on Summit till 13^{hrs}
sky cloudless times. Fog and thick haze
on hills all around. Air dry at times
in forenoon and again from 15 hrs
very dry at midn the humidity being
19. Moderate S or S^W winds all day
Brown fog crystals forming in early morning

February 26th

Remarkably fine weather. Cloudless
all day down to horizon. Thick haze
all around but sinking during the day
and thinning to S + E in the evening
Air very dry all day. Humidity ranging
between 22 + 48. Moderate to light
S² or S^W winds all day

February 27th

Still very fine and warm but hazy
weather. Sky cloudless till 14^{hrs} a little cloudy
times. Fog on hills to W all afternoon. Air
dry all day very dry at times lowest humidity
21 at 4^{hrs}. Light S² or S^W winds all day.

February 28th

Sky cloudy or overcast with cir-c till 7 hrs and moving
rapidly from W. Fog on hills in early morning to W² which
gradually spread all around and enveloped Summit at 8^{hrs}
Slight drizzle since 11^{hrs} Air dry till 7 hrs Saturated since

1899

March 1st

141

Mist all day with heavy showers of drizzling rain. Temp. steady about 35° till 8^{AM} falling till noon to 32° very steady since. Glazed frost all afternoon.

March 2nd

Very heavy rain in forenoon and showers drizzle snow and sleet in afternoon. Temp fairly high and steady 33° to 30° . Squally N^W & NW winds all day. Barometer pumping most of the day. Depth of snow at snowport 48 inches. having thawed 3 inches since yesterday.

March 3rd

Mist & fog all day with heavy showers of snow & sleet. fair after 21^{PM}. Temperature lower today than has been for some time (32° to 22.6°). N or NW winds all day. squally in forenoon light in evening.

March 4th

Summit clear at times during the day with sunny intervals. Passing showers to NE & E in afternoon. Slight showers of snow in early morning and again in evening. Temp falling till 7 hrs 20.4 to 14.0 rising a little since to 16° and steady. Bar changed 12.15^{PM} by 535541 wet 535542 put out. Height not altered.

1899

March 5th

142

Heavy showers of snow almost all day

March 6th

Wst or S^W winds all day squally in forenoon. Snowing almost continuously since 5^{hrs}. Owing to drift the rain gauge was not in use till 8^{hrs}. So that rainfall entries 5. 6. 7. 8^{hrs} are interpolations.

The hissing noise which accompanies St Elmo's Fire was heard at 13^{hrs}.

At 15^{hrs} the depth of snow was 62 inches an increase of 10 inches during the previous 24 hrs the increase is chiefly due to drift which has formed considerably between Tower and snow-post

March 7th

Summit clear at 17^{hrs} but sky cloudy with Ci + Cu-S and fog lying in valleys and on hills all round to 4000 feet. Slight showers of snow fell during the day. Light S^W or S^W winds till 16 hrs veering to N since and almost calm.

Bar changed at 17.15^{hrs}. by 192677 wet 192672 put out. Height not altered.

1899

March 8th

143

Summit frequently clear till 7^{hrs} and sky apparently cloudless. Slight showers of snow after 9 hrs. Barometer low and falling quickly after 15 hrs. Temperature falling all day (25 to 22) wind backed to W after 3 hrs and to SE in the evening increasing in force.

March 9th

Barometer low but rising all day. Light ESE² wind till 3 hrs. Calm till 6 hrs. Squally N or NE² breeze since. Snowing almost all day. Owing to drift the rainfall entries at 11. 12. 14. & 18 hrs are interpolations. Barometer rising after 8 hrs.

March 10th

At 4 hrs the stars were seen through the fog and at 5 hrs it was clear to N and shifting streamers of the Aurora were seen. Frost all afternoon ^{with} sleet and heavy showers of rain. Light N² or NW² winds all day.

March 11th

A splendid thaw all day and very heavy rain in forenoon and again in evening over a 1/2 inch being registered on several hours. Amount for 24 hrs being 3.335 inches. Temp very steady between 33° + 35°. After 22 hrs a quick fall took place of 3 deg. falling twice but slowly.

1899

March 12th

144

Slight showers of snow till 7 hrs and
again in the evening.

Two visitors up today

March 13th

Temp rising till noon 27° 53' 34" pretty
steady since. Heavy drizzling rain
since 8 hrs

March 14th

Temp very cloudy between 33° 5' + 30° 8' all
day. Mist thinning at times in forenoon
and sun gleaming. Rain and heavy
drizzle all day.

March 15th

By thin mist passing over hill top
at 7 + 8 hrs on which was seen a fog bow
Summit again clear at 15 hrs and
sky almost cloudless since but
thick fog lying in valleys and on hills
all round to 4000 ft. Between 15 + 16 hrs
there was a quick rise in temp of 3 degs
from 31° 53' 34" and at 17 hrs a further rise
of 6.5 degs (40° 5') rising thereafter to (44°) at midn.
Air becoming very dry towards midn.
Slight shower of drizzle till 6 hrs. Bot changed
at 16.10. by 53° 53' 34" wet 53° 55' 41" put out

1879

March 16th

145

Very fine all day and sky cloudless down to horizon. Fog and haze in valley all round the former clearing away during the forenoon. Temp very high range 41 to 46°. Air very dry all day the humidity ranging between 28 + 47 humor or seen at 2.3. & 4 hrs

March 17th

Very fine and cloudless till 19 hrs fog times. Thick haze in valleys all round. Fog rising in Glen Nevee and also to 5th in afternoon. Temp falling slowly all day (41 to 25°). Air dry most of the day

March 18th

Fog or cloudy sky all day with occasional slight showers of snow in the evening. Very cold weather. a rapid fall in Temp of 7.1 occurred between 1 + 2 hrs. (24.2 to 17.1) remaining fairly during the rest of the day. Air dry at times in afternoon. B + changed at 12.10^{or} by 192677 but 192677 put out. Today Duncan Grant came up and Robert McBonface went down to the Low Level Barometer pumping most of the day

1899

March 19th

146

Sun gleaming at times during the day. Very cold. Temp low (19.5 to 12). Squally N or NE winds all day with occasional slight showers of snow.

March 20th

Fog or cloudy sky with short sunny intervals. Temp pretty low all day. range (10° to 17°). Air slightly dry in afternoon. Amora seen at night.

Bot changed at 13.10^m by 535541
wet 535542 put out. Height not altered.

March 21st

Temp very low and fairly steady. (9.2 to 13.4). Light N or NE winds all day. Summit clear at times during the day with bright sunny intervals. Amora seen at 20 hrs and night.

March 22nd

Fog till 3 hrs. Summit clear since but sky cloudy. Temp exceptionally low all day (11.6 to 7.4). Air dry in afternoon. Amora seen at 14 hrs.

Heather burning in every direction today.

1899

March 23rd

147

Sky cloudless or almost so till 13 hrs
 Cloudy till 20 hrs and cloudless again
 since. Temp low in early morning
 (6.9 to 15.5). Air dry most of the day
Passing shower of snow at 18 hrs

March 24th

Almost cloudless till 8 hrs then
 fog till 17 hrs Summit clear since
 but sky overcast with Cir-S and
 very threatening appearance
 Light haze in valleys all day
 Air very clear and dry at times
 in morning. Heavy shower of snow
 between 15+16 hrs. Sun or Halo seen at 20 hrs

March 25th

Fog since 3 hrs. clearing occasionally
 in afternoon. Light showers of snow during
 the day. Light SW winds till 5 hrs backing
 to S + SE after 7 hrs but falling calm in the evening

March 26th

Temp rising till 16 hrs (25° to 31°) Steadily
 since. Fog or mist all day with occasional
showers of snow sleet and drizzle

1899

March 27th

148

Fog or mist with snow and heavy showers of hail.

Fog Crystals forming at 2nd

~~March 28th March 29th March 30th March 31st~~

March 28th

Mist with hail and sleet in forenoon and heavy rain in afternoon, and snow and sleet at night.

St Elmo's Fire seen at 21st

Mr. Rawlin came up and Mr. Miller went down

March 29th

Mist with heavy hail, sleet rain & snow.
Glazed Frost at and after 20th.

March 30th

Clear at times between 6th and 16th.

Glazed Frost at 1st & 2nd.

Solar Halos at 11th 15th, 12th and 14th. The cirrus on which the Halos were seen was lying WNW-ENE

Snow Bunting seen at 18th.

Thermometer Box changed at 7th 10th by 192677 and Met 192672 put out. Height not altered.

March 31st

Temperature rose quickly in forenoon and remained high all evening. Snow and snow-drift in morning. Mist and heavy rain all evening.

Fog Crystals forming at 7th

April 1st

High temperature (32-36.9) mist and heavy rain all day.

1899

149

April 2nd

Temperature still high - mist, and drizzle.

April 3rd

Temperature falling in evening. Mist and heavy rain all morning.

April 4thHeavy rain all morning: Very heavy showers of Hail in afternoon. The amount (melted) for hour ending 15th was 0.820 inch. The total fall for the day was 3.974 inches. Winds very squally.April 5th

Very heavy falls of snow and hail. Temperature falling. Winds squally in early morning.

St Elmo's Fire seen at 3thApril 6thWind backed from being NE in early morning to W. in forenoon and to SE and ESE in evening and blew a moderate gale from 19th to 23th.April 7thFog and showers of snow. The wind backed from ESE to NE this morning. Snow drifting seen at 16th.April 8th

Clear for a few hours both in early morning and in afternoon.

Thermometer now changed at 4th 10m by 535541 and Wet 535542 put out. Height not altered. Temperature low today (mean 21°4).

1899

April 9th

150

Except for passing fog at times the Summit-
was clear from 4th till 16th but fog lay in
detached sheets and masses on lower hills.
Thermometer - Box changed after 7th by ~~192671~~
and Wet- ~~192672~~ put out. Height not altered.
Solar Habs seen at 9th

April 10th

Fog with short clear intervals, and slight
showers of snow.

Temperature falling all evening.

April 11th

Temperature low (mean 19.7).

Fog till 14th Summit clear and sky steadily
clearing thereafter.

Some cir seen at night. was radiating
from N 10

April 12th

Temperature rising during the day.

Cir-s on sky at 4th radiating from NNW and SSE.
Solar Habs seen at 14th

April 13th

Moderate to strong SE. gale today with
thick fog and showers of snow.

April 14th

Wind backed from ESE to E + ENE
and moderate to a light breeze.

April 15th

Very squally all day. Very thick fog in
early morning - Kitchen Chimney not visible
from tower door.

April 16th Clear most of the day. Shower clouds
and passing showers seen in all directions
in evening. A loose cirrus appearance seen

1899

sun of upper surface of some shower
clouds at 16^h.

151

Lunar Coronas seen at 22^h and 23^h.
Thermometer Box changed after 10^h.
Dry 535341 and Wet 535342 put out.
Snow hunting seen at 10^h.

April 17th

Fog most of the morning: Clear in
afternoon but sky cloudy with Cumulus.
This Cumulus was quite near overhead
and moving from NW. - the wind on summit
being ENE. and NE.

Lunar fay bows seen at 1^h, and a lunar
corona at Orion.

April 18th

Fine and clear all morning: Fog and snow
after 14^h.

Cirrus on sky in forenoon radiating from
W.N.W.

Solar Halo seen at 7^h and 11^h.

Ben Shadow seen at 5^h after sun got up. Before
this two bands were seen in the yellow of
sunrise sky to E^d.

April 19th

Fog till 14^h. Clear thereafter but some Cir. on
sky on which a Solar Halo was seen at 17^h.
and 18^h and Lunar Halos at 21^h 22^h 23^h
and midnight. Lunar corona at midnight.

Radiating points of Cirrus W.S.W.

At midnight there was a distinct dark ring
inside the Halo: and the corona was seen on
Cirrus - cumulus about the moon.

April 20th. Cloudy with cir till noon (Rpts WSW)
and with cumulus till 19^h. Cloudless thereafter.
Lunar Corona and part of Halo on Cir - c at 1^h.

1899.

Snow Bunting heard singing at 10th and
five ravens seen flying about Cliff at 152
17th

April 21st

Thin fog from 8th till 19th. Clear during the
rest of the day.

Cirrus lying SW and NE at 1" 2" + 3"
Solar Corona seen at 18th and lunar coronas
at 22nd and 23rd.

April 22nd

Temperature very low last night (min
13° at 1st) Mostly clear but cloudy till 14th
fog thereafter.

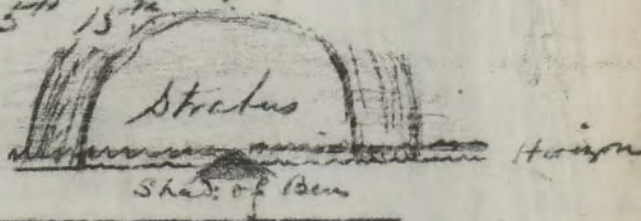
Solar Halo at noon

At 2nd a filmy streak of faint grey light
stretched across sky from NW to SE and
about 15° W. of Zenith. — perhaps cirrus.

A peculiar bow was seen on some stratus
(lower) to SW and W° at sunrise. Its radius
per stephanome was 43° 37'. It was observed
from 3rd 5th till 5th 15th.

Snow bunting at 5th

Raven at noon



April 23rd

Temperature higher. Fog most of day.

April 24th

Temperature rising. Mist.

April 25th

Fog and snow.

April 26th

Very fine. Temp. high and air dry.
but thick haze below. Thermometer. Box

1899.

changed at 5^h 10^m Dry 192677 and
 Wet 192672 put out.

153

April 27th

Summit. clear but sky overcast from 10^h
 till 15^h; fog or mist during the rest of the day.
 Very thick haze all round. Rain at night.
2^h 3^h late

April 28th

Temperature high and very steady. Mist-
 and rain.

Snow-banking at 13^h

April 29th

Temperature falling. Fog or mist and
 snow till about 19^h - clear thereafter.

April 30th

Summit. clear. but sky cloudy all
 day. Air very clear but not very dry.
 Cir at night Radiating from NW.

May 1st

The cir on sky at mid^l. last night got
 rapidly denser and lower, and at 3^h turned
 into Nimbus with snow - fog at 4 - Next
 clear hour was mid^l when it was observed
 that the stars were "twinkling" more than
 usual.

May 2nd

Aurora at 2^h - faint and low to N
 with long faint streamers

1899 May 3rd.

154

A very fine but cold day. Air dry all day. Cloudless till 9 and after 19". Some Cumulus in interval which formed below. gradually rose and increased in mass and then fell and vanished.

Today a New Sunshine Recorder was brought up. The holder for the paper is the same ^{action} as the old one; but it has a graduated semicircle by which it can be adjusted for latitude. The old glass ball continues in use.

May 4th

Aurora began as a bright single arch without streamers ^{at 23rd last night.} The arch, badly defined at mid. but with some short streamers. At 1st it was faint and low and only a few faint streamers.

Clear and air very dry during the day but fog came on at night.

Selen. Corona seen at 11th.

Buntings seen at 17th.

May 5th

Fog on lower hills all morning and on Summit for several hours. Clear and almost.

Cloudless all evening.

Thick haze came on at night.
Aurora at mid. — badly defined blotches low to N + NW.

1899

May 6th

155

Decided rise in temperature today.
 Air dry and sky cloudless, except for
 some cumulus in evening, all day.
 Very thick haze. ~~on~~ all round below, and
 some fog also in morning only.
 Aurora at 1st low and faint.

May 7th

Very much like yesterday - Thick haze
 all day and some fog ^{below} in early morning, a
 little cumulus about mid-day in sky, temper-
 high and air dry.

May 8th

At 23^h and mid last night and at
 1^h and 1^h 20^m today plates were exposed
 in camera on Nth sky - They may show
 something about height of astric rays
 at night.

Two bright meteors seen in SSWⁿ sky at
 1^h 20^m and 7^h 24^m.

Haze in evening formed a ~~to~~ belt above the
 SEⁿ hills as if a layer of different air
 was undermining it and pushing it up.

Cuckoo heard from Buchanan's Well today.

May 9th

The day began cloudless. But in
 forenoon cirrus types and cum-s gradually
 overspread sky. Very complicated in
 evening - there being Cir, Cir-s Cir-c & Cum-s

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which at night formed into a dense Nimbus from which some rain fell. Solar Halo seen at 15th.

Warm dry puffs of air were felt at 3¹¹. A number of dead flies were seen of the hard frozen snow surface between Oshy and McLean's sheep after 4¹¹.

The ^{cat} caught a mouse (vole probably) in kitchen. Apparently there are several as Neil has been hearing them all Spring.

May 10th

Photo of sunset

~~Mist and rain in early morning.~~
Overcast till 5th mist and showers of rain during the rest of the day.

May 11th

Mist and rain in early morning. Cloudy during the day, but air dry at and after 11th - very dry at night.

Several layers of Upper Clouds observed today.

Hazes and fog below - chiefly to E^o and N^o.

The cat caught another vole today.

Photo of sunset

May 12th

Summit clear till 18th, fog thereafter. Solar halos seen from 6th till 15th. At 3¹¹ the thermometer box was lowered one step, height above ground at 15th 41 inches. A snow-bunting

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was seen at 14¹¹¹⁵.

Today Mr. Pradon went down to the low level observatory and Mr. R. H. Macdonnell came up to B.N.O.

May 13th

Mist or fog all day. Temperature falling steadily 33°-26°. Heavy showers of sleet and snow during the day.

May 14th

Fog all day with showers of snow till 18¹¹¹⁵. Temp. 32°-26°.

May 15th

Clear most of the day, with fog on hills all round, and passing over summit occasionally. Air dry from 8¹¹¹⁵ till 17¹¹¹⁵. Top tracks in snow at 3¹¹¹⁵.

May 16th

Squally North or North westerly winds all day. Snow began falling after 7¹¹¹⁵ and continued all day.

Barometer pumping in evening.

May 17th

Mist or fog all day, with heavy showers of snow and hail.

The 20¹¹¹⁵ observation was started 5¹¹¹⁵ late.

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May 18th

158

Heavy showers of snow and hail during the day. Four mountaineers including one lady, ascended the Ben today by way of a gorge on the West side of the Cairn dearg butters.

May 19th

Slight showers of snow and sleet during the day and rain at night. Summit clear but sky cloudy at 13^h & 14^h.

Thermometer box changed and raised one step at 13^h. Dry 535541 Wet 535542 put out, height above snow at 15^h 51 inches. Glazed frost at 22^h.

Raven seen flying about summit at 13^h.

May 20th

Heavy showers of rain, sleet, and snow till 20^h, summit clear thereafter, but sky overcast.

Box changed after 22^h dry 192677 Wet 192672 put out, height not altered.

May 21st

Summit clear and air dry most of the day. Temperature rising till 16^h (24° to 30°) falling again to 23° 8' at midnight.

1899

May 22nd. Summit mostly clear and sky cloudy 159

till 14". Fog thereafter and some snow at night.

In consequence of the Standard clock having stopped (not wound up) at 10" 57^m today the 11" obserⁿ was not made till 11" 8^m.

May 23rd

Fog or mist all day.

Snow buntings seen at 8".

May 24th

Fog till 21". Clear thereafter. Fog crystals forming all morning.

Two snow buntings at door at 13".

May 25th

Sky cloudy but air very clear and dry all day.

May 26th

Sky slightly cloudy: air dry and very clear

May 27th

Cloudless all day except for a little Cumulus between 9" and 16". Air dry and very clear.

Anemometer re-started at 14".

Cuckoos heard faintly at 4".

Mr. Ramskin returned today and Mr Grant went down.

May 28th

Very fine all day. Fog below in morning: rising in forenoon: Cloudy in afternoon and clouds falling and vanishing in evening.

May 29th

Clear all day: but sky partly covered with different kinds of Cirrus. on which Hales were seen at 5" 6" 8" & 19". Thickening and lowering at night

1899

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Thick haze all round all day.

May 30th

Clear all forenoon - Mist all evening.
~~Thick haze all round all day.~~

The 6th obsⁿ was made at 6^h 5^m.

Today Mr J. S. Begg and J. Miller (N^o 2) arrived here, and Mr McDougal and J. Neil left.

May 31st

The mist cleared off after 4^h. During the forenoon the sky was overcast; but in the evening it gradually became cloudless.

Solar Halos seen at 9^h. and 13^h.

Thick haze around all day.

June 1st

Very hazy today not only below, but at and above the level of Summit - the sky being rather hazy also.

Temperature very high especially in early afternoon when readings were above 50°.

June 2nd

In early morning the clouds gradually thickened and assumed heavy threatening thundery appearances. No thunder heard, but frequent and strong earth currents moving tongue of telephone bell. between 3^h and 6^h.

Rain began at 5^h, and mist came on at 9^h.

June 3rd

Clearing a little only at sunrise: mist gradually getting wetter: and heavy rain at and after 14^h. (Baromet^r Record-men doing the Ben today)

1st man's
time =
2^h 41^m
Double journey

1899

June 4th

161

Mist and rain all day.June 5thMist all day with heavy drizzle till 8^{hrs}
occasional slight showers sinceToday Mr Miller came up and A. Rankin
went down. Refreshment Room opened todayJune 6thSummit clear after 5 hrs but sky cloudy
or overcast with Cir, Ci-C, + Ci-S; motion very
slow and chiefly from ~~the~~ N to NW.Fog in valleys and on hills below most of
the day and at times passing over summit
in forenoon. Air dry and clear since 6^{hrs}a heavy shower of rain fell between
Mid and 1 hr. A very fine glory
seen at 21^{hrs} with shadow of observatory
and cairn to NJune 7thFog on summit from 8 to 16^{hrs}
Clear again and sky cloudless
after 21^{hrs} Fog in valleys all round
and again in the evening
Thermometer Bot lowered one
~~step~~ step at 0^h 5^m. Height above
snow 113 inches

1899

June 8th

162

Cloudy sky mist or fog till 20th
 cloudless since. Slight shower of
 drizzle at 5 & 8th

June 9th

A remarkably fine day. Cloudless
 sky and high temperature range
 43.8 to 55.7. Some fog in valleys in
 early morning but after 8th no fog below
 slight haze in distance during the
 day becoming thicker towards evening

June 10th

Cloudless till 6th Cloudy till 21th
 and overcast since. Haze all round
 and to about 10 days above horizon
 Great banks of fog to W in evening.
 A faint solar halo seen at 9th. Max
 Ther put out this morning N° 188590
 Snow has now gone from round
 thermometer ladder. At 16th Wind
 on Cañon being W. Face!

June 11th

Overcast and mist with slight
 drizzle till 7th Clear and at times
 cloudless since. Fog all round below

1899

in forenoon. No fog below since. 163
13th. Snow has now all thawed away
from Gange but there is still a
considerable amount on summit
vary from 1 to 10 feet at edge of cliff
at 1st and 2nd gorges

June 12th

Air remarkably clear^{day}. The
outer Hebrides being seen most of
the day. Sky slightly cloudy all after-
noon. Fog over Lochail at 1st spread
round to N + S and in valleys and
round at 3rd. After 7th fog began
to break up and disperse and
by 14th No fog below. Thick haze at 7th

June 13th

Very fine warm weather. Sky
cloudless or nearly so all day. Some
fog on hills from N to E in early morning.
Air very dry all day. The humidity
ranging between 46 to 81. Wind N + E
or Calm all day. Squally till 9 hrs. light
air since. Slight haze all day and
extending to about 6 days above horizon

1899

June 14th

164

Air very dry and temperature high
range 47.7 to 60.0 . Sky cloudless till noon
cloudy or overcast since. Gloomy
to E + SE in evening (very thundery like).
Slight rain falling at 21^{hrs} but nothing
in gauge. Haze around all day

June 15th

Light breezes or Calm all day. Wt till
6^{hrs} backing to S + SE till 16^{hrs} veering again
to SW and WSW since. Barometer very
steady all day. Temp high and air dry
the lowest humidity being 33 at 21^{hrs}.
Thick haze in valleys all round
Sky almost cloudless till 16^{hrs} cloudy since
low lying fog in distances between Eijs +
Rum in the evening

June 16th

Cloudless or almost so till 21^{hrs} overcast
or fog since. Fog in valleys all round
till 10 hrs, dispersing at 11 hrs. No fog below
at 12 hrs. Thick haze all round most
of the day

1899

June 17th

165

Fog mist or cloudy sky with showers of rain after 22 hrs. Temperature much lower today, range 47.2 to 42.0 . Fog & thick haze below in early morning and again in afternoon. Solar Halo seen at 16 hrs. Light S² to SW² winds all day.

June 18th

Temperature still continuing to fall range 43.0 to 35.3 . Mist or overcast sky with showers of rain & drizzle.

Some Visitors who came up this morning for Sunrise report having seen three or four flashes of lightning but heard only one peal of thunder between 22 hrs and midnt. No lightning seen on Summit but at 22^{50} strong earth currents on Telephone

June 19th

Summit clear at times after 19 hrs but sky pretty cloudy and mist on lower hills all round. Slight drizzling rain most of the day.

Temperature low and fairly steady all day. range 38.8 to 34.1 . Light V. air or Calm

1899

June 20th

166

Temp low and fairly steady during the day but ^{very} in the evening: Mist with occasional short sunny intervals in forenoon. Drizzle since 15 hrs light to moderate E or ESE breeze all day

June 21st

Summit clear at times for a few minutes in afternoon but sky overcast and big banks of Cumulus all round. Slight showers of drizzle in early morning and again in evening. Temperature higher to day (43.5 to 48.0)

June 22nd

Mist all day except at 6 & 7 hrs but sky overcast. but fog on hills to S at 6 hrs slight shower rain between 8 & 14 hrs in afternoon. Temp falling slowly all day (45.6 to 39.4)

June 23rd

Summit clear occasionally in the morning but sky overcast and mist passing at times. Air slightly dry at 2 hrs and again from 8 till 14 hrs, but fog on hills all round and slight haze in valleys. Showers of drizzle after 19 hrs. light SE breeze till 8 hrs Var and calm since

1899

June 24th

167

Summit clear from 9 till 11 hrs
and air slightly dry; and clear again
after 22 hrs and sky almost cloudless
but fog on hills around and passing
at times. Slight drizzle till 4 hrs.
Temp pretty low all day (39.6° to 32.9°) wind
N^W all day and light.

Summit Coronae seen at 23 hrs

25th June

Sky cloudy with Ci-C + Ci-S at 1. & 2 hrs
and air dry but fog on hills around and
passing at 2 hrs. Fog a brief time with
showers of drizzling rain.

A Lunar Halo seen at 1 hrs

June 26th

Mist with heavy showers of rain
till 10 hrs. Clearing at times times with
sunny intervals. Light Variable wind
all day chiefly N^W. Temperature
falling steadily all day.

June 27th

Sky cloudy or overcast till 12 hrs. Fog on
the hills from N^E. E^{SE} & S^E and passing occasionally
over Summit during the forenoon.

1899

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- Fog since 13 hrs at times very thin
 air slightly dry till 18 hrs except at 4, 5, & 17 hrs
 when air was saturated. Light SE² to
 SSE² winds all day. Snow forming
 on roof of Observatory at 1 hr

June 28th

Mist with heavy rain all day
 Moderate SE² full most of the day moderating in
 force after 21 hrs. Temp very steady (45 to 43)
 Anemometer at 16^{hrs} blank and the entry
 at 17 hrs being interpolated.
 Connecting spiral rod between anemometer
 and counter found broken at 16^{hrs}
 Temporary repaired at 16^{hrs} 15.

June 29th

SSE² winds till 1 hr veering to SW
 W & N since and light in force
 Mist or fog all day with slight showers
 of drizzle till 15 hrs. Sun gleaming at
 9 hrs & clearing overhead at times in
 afternoon but sky apparently cloudy

June 30th

Summit clear at times in afternoon.
 occasional slight showers of drizzle during the day

1899

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July 1st

Mist all day with heavy showers of rain. Anemometer again broke down after 9 hrs but repaired and restarted at 15 hrs.

Today Mr. G. Ednie came up and Mr. L. Begg went down

July 2nd

Mist with continuous rain all day
Light Variable winds chiefly N^W
Barometer pumping at 6 till 9 hrs

July 3rd

Mist thinning at times in afternoon and sun gleaming. Showers of rain till 8 hrs and again from 16 to 20 hrs
Sir John Jackson and party visited Observatory today

July 4th

Mist with occasional showers of drizzle till 8 hrs. Summit clear since but sky cloudy with Cir-C coming from N & NW. Motion moderate fog all round to level of summit in forenoon and passing at times till 17 hrs. No fog below since air dry from 14 hrs. Dry day at 20 hrs humidity being 43 %

1899

July 5th

170

Thick banks of fog around all day and rising to about 1000 feet above summit and passing frequently over hill-tops during the day. Slight haze in distance to E in forenoon. Light Var. air on Calm all day. Temp higher today (44-45-52-44)

July 6th

Summit clear from 6 to 20 hrs and sky almost cloudless. Fog on hills all round to about 4000 ft and at times rising to level of summit and passing frequently over hill-tops during the day. Fog settling on summit again at 21 hrs. Air slightly dry most of the day. Solar Halo seen at 15 hrs

July 7th

Mist all day with heavy drizzle. Mist breaking for a few minutes between 20 + 21 hrs but sky apparently overcast

July 8th

Mist or fog with slight showers of drizzle till 14 hrs overcast or cloudy thereafter

July 9th

Mist all day with showers of rain since 5 hrs very heavy from 17 hrs. Clearing at times overhead at midnight

1899

July 10th

171

Sky slightly cloudy till 5 hrs Overcast or fog since. Fog all round to about 4000ft breaking up at times in various directions into Cumulus but reforming again @to fog all round. Air slightly dry most of the day.

July 11th

Summit clear from 9 till 14 hrs but sky overcast. and fog all round & passing light showers of rain after 15 hrs

July 12th

Mist with rain all day. SE or ESE^{1/2} winds most of the day. light in early morning but fresh breezes in afternoon. Temp rising all day

July 13th

Summit clear from 14 to 18 hrs but sky about half covered with Cum and Cir. Air slightly dry. Showers of rain till 8 hrs and again from 22 hrs

July 14th

Thin Mist about midday and sun gleaming frequently. After 16 hrs fog cleared of Summit. but sky overcast or nearly so. Showers of rain from 6 till 13 hrs and again from 23 hrs

1899

July 15th

172

Mist or fog all day except at 3 & 4 hrs
but sky overcast. Sun gleaming at times in
forenoon. Slight showers of drizzle between
1 & 15 hrs. Temp pretty steady 37°0 to 41°4

July 16th

The difference between dry & wet Bulbs
indicating air dry at 13 hrs is very doubtful
there being mist on at the time & decidedly
wetting (almost dr°). Sun gleaming at times
in forenoon. Slight showers of drizzle
during the day

July 18th

Mist or fog ~~with~~ almost all day
sunlight clear frequently in the afternoon but only
for a few minutes at a time. Sky pretty cloudy
or overcast and cum fog on hills around
slight showers of rain in forenoon and
again from 22 hrs. Temperature very
steady all day (43°0 to 45°5)

July 19th

Mist or overcast sky till 23 hrs with
showers of drizzle throughout the day.
almost cloudless at midt. Thrice banks
of cum fog on hills all round
Calm or light N² air all day. Temp high
and pretty steady

1899

July 20th

173

Sky very cloudy at 2 hrs and fog on hills rising and passing. at 3 hrs fog had enveloped summit + remaining during the rest of the day. Sun gleaming brightly during the forenoon. Light ESE winds or Calm all day.

July 21st

Summit clear at times in afternoon but only for a few minutes and 5 minutes sunshine recorded today. Sky cloudless at midday and det. cum fog on hills around. Air slightly dry at 18 hrs. Barometer very steady all day.

July 22nd

Sky cloudless or almost so till 6^{hrs} fog off + on summit since, and sky apparently overcast. Thick haze all in evening. Fog hanging about hills all day. Air slightly dry most of the day. Religious Service was held on Roof of Observatory by the Rev Mr McNeil upwards of 40 Visitors attended. Lunar Corona seen at 11^{hrs}.

July 23rd

Fog or overcast sky all day. A slight shower of rain fell between 15 + 16 hrs. The fog in valleys in early but rising during forenoon and enveloping hills all round + passing frequently over hill-tops. Air slightly dry most of the day.

July 24th

Mist or fog all day except at 14 hrs but
 sky overcast + fog passing. Occasional
 slight showers of drizzle in forenoon
 Temp falling all day. (44.7 to 37.8)

July 25th

Continuous heavy rain since 2 hrs
 day heavy from 2 hrs till midn. the hourly amounts
 ranging from four tenths to over five tenths
 the total amount for the day being 3.207 inches

July 26th

Heavy showers of rain till 10 hrs and
 again after 19 hrs. Variable N^E winds
 all day rather squally. Temperature
 falling till 4 hrs very steady since
 between 36 + 37. The observation at 19 hrs was
 taken 7 mins late. No correction applied
 Today Mr & Mrs Bernard visited Observatory

July 27th

Clear at 23 hrs but sky almost overcast
 sun gleaming at 12 hrs. Slight drizzling
 rain most of the day. Variable squally
 N^E winds all day.

The cat caught a mouse (Vole?) in
 scullery this evening

1899

July 28th

175

Summit clear at 7 hrs and about 2 min
sunshine recorded. Sky very cloudy
and fog in valleys all round

Temp rising pretty steadily all day. range
38.0 to 45.7. Variable squally N^E winds
Heavy rain since 15 hrs vary from
one tenth to three tenths per hour

July 29th

Hill-top clear at times in afternoon
and sky apparently almost cloudless
but mist all round to 4000 ft. Air
slightly dry at 17 hrs + mist! Heavy
showers of rain till 13 hrs and slight
drizzle from 20 hrs. Temp steady 43.2 to 45.8
Variable squally N^E winds all day.

July 30th

Sky slightly cloudy with Cir-C till 7 hrs
and moving quickly from WNW. Fog mist or
cloudy sky till 19 hrs cloudless since
Fog on hills below all day rising at times
and passing over summit. Air dry almost
all day very dry in early morning. Lowest
humidity 42 at 2 hrs. N or NW winds all day
very squally till noon light during the rest of the
day. The cat caught a mouse in coal cellar in afternoon

1899

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July 31st

Day cloudless till 4 hrs but thin fog passing continually on which were formed very fine lunar coronae. Sky cloudy during the rest of the day with cir + cir-c and moving slowly from W. Fog all round below during forenoon but dispersing in afternoon but again forming in evening to W and enveloping summit at 23 hrs. Temperature high and air dry most of the day.

August 1st

Fog or mist till 16 hrs. Sky cloudless since but fog below all round. Air very dry at 21 hrs the humidity being 30. A rapid rise in humidity at 22 hrs it was 31 and at 23 hrs 96. Temperature very steady all day ($48^{\circ}4$ to $51^{\circ}4$). Light to moderate W² or N W² winds. Today Mr. G. Edwin left the observatory and Mr. R. H. Macdonnell arrived here.

August 2nd

Clear and cloudless most of the day with fog in valleys. Fog from 20th to 23rd (incl) cloudless again at mid. Glory seen at 5th (Temp 50-63)

1899

August 3rd

177

Clear and sunny in forenoon, with fog on hills and passing over summit in evening. The 10th obs. was taken 3 minutes late (no corrections applied)

Today Mr. W. L. Kilgus arrived at the observatory to assist as an observer, and Mr. J. Miller went down to the low level.

August 4th

Clear and sunny all day, with thick fog all round below, sinking into valleys and disappearing towards evening.

August 5th

Sky cloudless in early morning, slightly clouded during the day & cloudless again at night. Solar Halo's seen from 8 to 11th.

August 6th

Sky slightly clouded during the day, overcast at night.

August 7th

Cloudy till 20th, cloudless thereafter. Fog hanging about surrounding hills all day.

August 8th

Clear and sunny all day. Thick fog all round below in forenoon, rising and dispersing towards mid-day.

Aug. 8th
Plumbers putting
up new kitchen
chimney today.

1899

August 9th

178

Summit enveloped in fog for a few hours in forenoon, clear and sunny in afternoon, and cloudless after 20th

August 10th

Clear and sunny till 19th. Fog passing over summit for a few hours in evening. Clear again at night.

August 11th

Cloudless or almost so all day. Fog over Caledonian Canal & Loch Eil in early morning, dispersing towards midday. Thin haze in valleys all day. Sparrow hawk seen on summit after 10th. Mr. R.C. Marshall Edin. arrived at the obsy. today, to act as observer and Mr. W. L. Kilgour left.

August 12th

Calm, sunny and very warm all day. The registering maximum thermometer read at 21th - read 63° 5'. Thin haze low in valleys all day, and a narrow band of cirro-stratus lay near the horizon all round.

August 13th

Cloudless most of the day, with thin haze in valley in forenoon, getting more dense in evening.

August 14th

Warm and sultry all day, with thick haze all round. Summit enveloped in fog at 23th and mist at midday.

1899

August 15th

179.

Clear from 3⁴⁵ to 6⁴⁵ (fine) showing very thick haze all round. Fog or mist the rest of the day, with drizzling rain till 20⁴⁵.

August 16th

Mist with slight drizzling rain all day. Barometer pumping from 19⁴⁵ till mid.

August 17th

Mist all day with heavy showers of rain in forenoon, and drizzle in eve.

August 18th

Clear after 2⁴⁵. Cloudy during the day. mist again at mid.

Solar halo at 16⁴⁵ and a double rainbow at 5⁴⁵.

August 19th

Mist with slight drizzle during the day.

August 20th

Clear at 3⁴⁵ (sky cloudy) mist or fog till 15⁴⁵. Clear and cloudy till 20⁴⁵. Cloudless thereafter.

August 21st

Sky covered with cumulus and Cirro-cumulus till 6⁴⁵. Fog the rest of the day. Light West or South-westerly airs all day.

1899

August 22nd

180

Temperature very high all day.
(46 to 62). Summit enveloped in fog till
6¹⁴^{hrs} cloudless the rest of the day.

The 14^{hrs} obs. was taken 3 minutes late,
(no correction applied to readings)

August 23rd

Temperature very high (54-65).
Sky almost cloudless all day.
Some patches of fog lay in valleys
in early morning, but disappeared
in forenoon, giving place to a thin
haze which gradually got more dense
in evening.

August 24th

Warm and sunny with thick
haze all round all day.

Spiral connecting rod of anem. un-
hitched at 23^{hrs}, set right again at
midnight.

August 25th

Cloudless till 4^{hrs} cloudy till 18^{hrs}
mist thereafter. Strong south-easterly
breeze blowing all day, veering to west
after 20^{hrs} and moderating in force.

Thunder & lightning after 16^{hrs}. St Elmo's
fire from 16^{hrs} to 17^{hrs}. Two ravens and
two hawks on and about summit at 6^{hrs}.

1899 August 26th

181

Mist till 4^{hrs}, sky partly covered with Cumulus and Cirrus the rest of the day. M^r R.C. Mossman. Edin^g visited the Obs^y today.

August 27th

Mist with heavy showers of rain all day. D^r H.R. Mill (London) visited the observatory today.

August 28th

Summit clear but with fog passing at 4 and 5^{hrs}. Fog from 6^{hrs} till 15^{hrs} clear again and cloudless after 19^{hrs}.

Lunar Coronae at 4⁴⁵ ^{hrs}

August 29th

Fog or mist all day, except at 11^{hrs} when sky was cloudy. Heavy showers of rain in evening.

August 30th

Mist and drizzling rain all day.

August 31st

Mist all day, with drizzle in early morning and again at night. M^r D. Grant arrived at the obs^y today and M^r R.C. Marshall left.

1899

September 1st

182

Sky cloudless till 4th with fog on hills and passing over summit at times, enveloping summit at 5th clearing again at 11th and sky cloudy the rest of the day.

A number of snow-buntins were seen about summit throughout the day

September 2nd

Almost cloudless at 1th with mist passing. Mist the rest of the day. Heavy showers of rain from 6th till 10th

Today Mr. Don^d McDonald arrived at the Observatory to act as observer and Mr. C. Grant went down to the Low Level Observatory.

September 3rd

Mist all day with heavy showers of rain and light West or South westerly winds.

September 4th

Mist with slight showers of rain in early morning and again at night

1899

September 5th

183

Summit clear and sky cloudy
at 6^h 17^h 4 18^h. Fog or mist the rest of
the day. Slight drizzling rain at times
during the day.

September 6th

Clear from 11^h to 13^h and
again at 16^h. Fog or mist the rest
of the day. West or North-Western
breezes all day.

September 7th

Mist with slight drizzling
rain during the day.

September 8th

Summit clear but fog
passing at 3^h 4 7^h. Fog or mist the
rest of the day. Slight drizzle in
evening.

The 19^h observation was started
at 19:3^m (no correction applied).

September 9th

Fog or mist with occasional
breaks in afternoon and heavy rain
from 1^h till 9^h.

September 10th

Clear most of the day and air
very clear and dry in afternoon.
Anemometer tied at 4^h; started again at 8^h.

1899

September 11th

184

Fog or mist till 15^{hrs} clear and sky slightly clouded thereafter.

Heavy showers of rain fell in forenoon.

September 12th

clear and cloudless at 1^{hr} and 2^{hrs}, mist with drizzling rain the rest of the day.

Today Mr G. Tait came up from mid station to act as observer at B. N. O. and Mr Donald McDonald left.

September 13th

Mist and drizzling rain till 15^{hrs} clear and almost cloudless till 23^{hrs} and mist again at midⁿ.

A Solar Fog-bow and Glories were observed after 10^{hrs}

September 14th

mist and drizzle till 15^{hrs} clear the rest of the day. Temp. falling slowly (39-31). Anemometer tied after 21^{hrs}

September 15th

Summit clear till 3^{hrs} mist and heavy showers of rain the rest of the day. A slight shower of snow fell between 6 & 7^{hrs}, and sleet at midⁿ.

Anemometer started at 6^{hrs} - stopped again at 23^{hrs}

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September 16th

185

Fog or mist till 10^{hrs} clear and sunny the rest of the day, with thick fog all round below, and passing over summit at times.

Fog-bow and Glory at 11^{hrs}.

September 17th

Mist all day. Heavy showers of rain till noon, and hail, sleet, and snow thereafter.

Thunder & lightning from 18^{hrs} to 19^{hrs}.
Anemometer tied at 18^{hrs}.

September 18th

Fog or mist all day. Temperature remained very low (29-33). Heavy showers of snow fell during the day and sleet and drizzling rain at night.

St Elmo's fire, Thunder and lightning were observed from 3^{hrs} till 5^{hrs}.

The telephone bell kept ringing at intervals of 14 to 15 minutes while Thunder storm lasted.

Barometer pumping slightly most of the day.

September 19th

Mist with sleet & rain in forenoon, and heavy snow at night.

St Elmo's fire seen at 21^{hrs} and between 22^{hrs} & 23^{hrs}.

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September 20th

Temp steady all day between 30 + 32
 Heavy showers of snow + drizzle throughout
 the day. St Elmo's fire at 1 + 6 hrs.
 Snow lying on Summit varying from 3 to 5 inches

September 21st

Sun gleaming at 9 hrs + Sun passing
 at 12 hrs. occasional showers of snow during
 the day. observation at 18 hrs taken at
 18^h 5^m. No correction applied

September 22nd

Fog on Summit till 17 hrs with heavy showers
 of snow. Clear till 22 hrs but sky overcast
 with str; fog on again since
 Sun at Coronae at 22 hrs. depth of snow 8 inches

September 23rd

Fog with heavy showers of snow
 + hail. St Elmo's fire heard on kitchen
 chimney + on roof of Tower at 9 hrs
 depth at snowport 9 inches and wreaths
 round observatory + Hotel varying from
 1 to 3 feet. Today Mr. J. Miller came
 up and Mr. R. MacBryall went down

1899

September 24th

187

Sky clear from 6 till 12 hrs but sky overcast with cum-s. Sun gleaming at 7 hrs. Slight showers of snow at 4+5 hrs and again from 13 hrs. Ther bot put out on N^o 2 ladder at 12.10 by 192677 bet 192672 Inst 186590 + Min 1108531 A in use

September 25th

A splendid thaw most of the day with heavy rain. Temp fairly high but falling below freezing point after 20 hrs. Anemometer started at 11 hrs but tied up again at 21 hrs. Reading at 21 hrs not entered in observation sheet

September 26th

Fog & mist all day with slight showers of snow and drizzle

September 27th

Fog or mist all day with showers of snow till 13th

September 28th

Temperature low. Sky cloudy or overcast till 16th. Fog thereafter, and heavy showers of snow at night. Today Mr Miller

1899

being ill was relieved by Mr Grant. 188
 the former going down to Fort William
 in evening.

September 29th

Summit clear occasionally through-
 out the day.

Lunar coronas seen at 3^h and 4^h
 and lightning between 20^h & 21^h.

A flock of brankings seen at 18^h —

September 30th

Fog or mist with showers of
 snow sleet and rain.

Today James Neil left the Observatory
 James Bell taking his place as
 Cook and Steward

The Hotel was closed for the season.

October 1st

Mist all morning. Clearing at times
 in afternoon.

Anemometer registering from noon till
 midnight when it was tied up.

October 2nd

Fair but foggy till 16^h. Mist
 and heavy rain thereafter.

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Today Messrs. Affleck and A. Rankin 189
arrived at the Observatory and Mr.
G. Tait left. The telegraph clerk
also left for the season.

October 3rd

Mist and heavy rain all day. The
hourly amounts of rain measured at
9th and 10th were 0.474ⁱⁿ and 0.475ⁱⁿ respect-
ively.

Mr. S. Grant went down to the L.L.O.

Oct 4th

Fog or mist with slight showers
of snow.

October 5th

Summit clear most of the day
air slightly dry from 6th till 10th and
again at 21st.

A Raven was seen at 15th.

The 23rd observⁿ was taken at 23rd 2^m.

October 6th

Fog or mist with showers of snow

October 7th

Mist and drizzle till 16th. Clear and
almost cloudless till 23rd but cum-fog
below all round and fog at times
passing.

October 8th

Mist and drizzle

1899

October 9th

190

Thick mist all day: and rain at night. Temperature 32° to 39°

October 10th

Mist or fog except from 5th till 9th when sky was nearly cloudless and air on summit dry. Heavy rain at and after 16th. James Bell left to rejoin ^{his} regiment today.

October 11th

Temperature over 40° with mist and heavy rain all day. Snow thawing rapidly.

Anemometer registering after 20th

October 12th

Temperature fell quickly in early morning and continued to fall slowly all day: $42^{\circ}7$ at 1th and $24^{\circ}1$ at 22th.

Anemometer registering tree 7th

Hugh McKenzie the Roadman spent the night at the Observatory, being up working the Coal cellar.

October 13th

Fog and showers of snow most of the day — Clearing at night.

[During the last four days (9th to 12th incl) a dog has been heard whining howling and barking at intervals in the precipice somewhere about the Tower Ridge and near the Summit. It has not been heard today — perhaps the severe frost of last night killed it. In spite of every search the Observers failed to find its exact position in cliff.]

1899

October 14th

191

Summit clear all day: Some Stratus and cirrus on sky in forenoon, but cloudless all afternoon.

Detached fog in various directions below level of summit ~~attending~~ till 19th

Run air Corona seen at 22th

The dog was heard barking at 20th

October 15th

Summit frequently clear and our dry. Thick haze came on below level of summit after 9th

Aurora (low and faint) seen at 1st and 2nd

[This evening the two observers accompanied by Mr. Fraser & Glennevis made a thorough search for the lost dog in precipice with the result that he was found on a ledge of rock a few feet below the top of the Tower Ridge. The animal was alive and unharmed and on being carried to the Observatory he was quite lively and apparently none the worse of this long exposure. The same dog was seen on the summit on the 3rd and it is probable he has been on the ledge since then although he was not heard barking till the 9th]

October 16th

Fog or mist almost all day: with strong wind Temp rising quickly at evening.

1899

October 17th

192

Mist all day with slight drizzle all evening. Temperature high and rising.

Today John Johnstone arrived here to act as cook and steward.

Anemometer going all day.

October 18th

Mist and high temperature (over 45°) all day. The snow that has covered the summit during the last month is almost all gone.

October 19th

The mist cleared off summit after 7th. The rest of the day was very fine. Temperature high all day, and air very dry in evening the lowest humidity being 40%. Small amounts of cirrus on sky till 1st 17th - Christmas thereafter. Pretty thick haze in the valleys all day.

A Raven was seen flying over summit about 13th.

October 20th

Summit clear all day except for thin fog passing about the middle of the day. Air very dry in early morning. Small amounts of cirrus on sky all day lying chiefly SW and NE. After 18th there was continuous fog all round below to about 3000ft. Thin fog at times passed

1899

overhead on which lunar coronas were seen at 20^h and 21^h. A lunar fogbow was noted at 20^h.

193

Mr Grant arrived at observatory Mr Affleck going down for a few days.

October 21st

Detached fog below all morning, dispersing in afternoon giving place to very thick haze which at night limited the "visibility" to 1. Various amounts of cir on sky all day, on which a Lunar Halo was seen at midnight. A Lunar Corona was seen at 1^h.

October 22nd

Air clear and dry till 11^h but thick haze all round below. Fog was observed forming and advancing to W^h of Ben at 8^h. At noon it reached summit and remained there for the rest of the day. Lunar Halos were seen at 2^h and 3^h.

October 23rd

Most all day with rain in evening. Lunar Corona and fogbow seen at 2-3^h. Mr Affleck returned to Observatory and Mr Grant left.

October 24th

Fog till 6^h. Mostly clear with some cirrus on sky till 18^h. Cloudless at 19^h & 20^h. But at 21^h a thick fall of Stratus covered the sky and descended to summit with a rise in temp. and some rain at 23^h & mid^l. Lunar coronae seen at 1^h & 2^h.

1899

October 25th

194

Mist all day with temperature steadily rising and Barometer falling.

October 26th

Mist all day with heavy rain all forenoon and showers of sleet and hail in afternoons. Temperature falling all day.

October 27th

Fog in forenoon - mist in evening: Temperature and pressure very steady: Wind light and variable chiefly westerly.

October 28th

Mist all day. Heavy rain from 8th till noon. Wind very squally most of the day.

October 29th

Fog or mist with snow and heavy rain. Squally SW's wind. Temperature high during the day, falling at night.

October 30th

Fog and showers of snow all day. Thunder was heard at 13^h 45^m, and at the same time there was a strong current in wire. Lightning was seen at 20^h 21^h 22^h and 22^h 35^m. St. Elmo's Fire was seen at 22^h and 23^h, and at midnight there was a strong ring on telephone bell.

October 31st

Fog and showers of snow all day. Temperature rising at night.

1899 November 1st

195

Mist all day. Temperature fairly high.
Anemometer "going" from 10th till 16th.

November 2nd

Mist or Overcast sky. Strong S.E. winds in
early morning.

November 3rd

Fog with heavy showers of snow and sleet-
winds somewhat squally.

November 4th

Temperature rising quickly in afternoon. Clear
occasionally in forenoon. Mist all afternoon, and
heavy rain at night.

A Glug was seen at 8th.

Mr McDougall arrived and Mr Affleck left.

November 5th

Summit mostly clear - sky overcast or
nearly so. Strong squally W. to S.W. winds all
day.

Telephone bell frequently ringing by earth
currents.

November 6th

St Elmo's Fire was heard at 10th.

November 7th

Temperature rising all morning. Squally
S. to S.W. winds all day. Heavy rain from 7th till 16th.
A few rings on telephone by earth currents
during the day.

November 8th

Fog or mist with showers of snow.

1899

St Elmo's Fire was seen at 6th

196

Mr. J. Affleck arrived and Mr. McDougall left.

Raven seen at 8thNovember 9th

Clear at times in evening.

Lunar Halo seen at 20thSnowbunking seen at 15thNovember 10thRather stormy all morning. From 3th till 7th incl: the storm thermometer in tower was used. Readings corrected (-13) - double readings being made till 13th

Quick rise and fall of temperature as the wind veered from SE through S and SW to NW and N.

Heavy rain in afternoon and heavy fall of snow and snow hail at night.

St Elmo's Fire was seen at 22thNovember 11th

Fog and showers of snow.

St Elmo's Fire was seen at 5thNovember 12th

Temperature rising all day. Fog and some snow in morning, mist and heavy rain in evening.

November 13thMist all day. Heavy rain till 7th

1899

November 14th

197

Mist and rain in early morning. Fog and snow about midday. Clearing in evening. Cloudless and air dry at night. A watch was kept for the Leonid meteors tonight, but none were seen.

November 15th

Cloudless till 8^h. Cloudy with cirrus till 18^h. Thereafter a thick bank of high Cumulus and haze came up from SW. This thickened and fell to summit by 22^h and formed thick fog or mist till midnight making observations of meteors if any impossible.

The ^{humidity} was very ~~dry~~ ^{low} at 2^h and 3^h ^{28 and 29} ~~the humidity~~ ^{28 and 29} but it quickly rose, and although the temperature was high and the day otherwise fine and clear the air remained pretty "damp" for the rest of the day.

22^h observation was made at 22^h 5^{min}

November 16th

Mist all day.

Mr. William Rawlin arrived today to act as assistant observer.

November 17th

Fog all day, sinking at night, leaving the hilltop alone clear and forming a continuous sheet all round. The air was dry at 22^h but immediately after the observation the top of the fog rose and was passing, and the air became saturated - the dry bulb falling to the temperature of the wet bulb. Bright lunar comets seen at 21, 22, 23 & mid.

1899 November 18th

198

Summit clear most of the forenoon, but thick continuous fog on all hills below 4000ft.

Bright-lunar coronas seen of thin passing fog at 1st and 2nd. At 2nd there were three sets of rings the colours being very distinct as follows —
— D white. R. b. g. y Red (other only flashing at times) —
Measurement per Stephanome of 1st red gave rad. 2°.36'
Mr. Affleck went down today.

November 19th

Mist, heavy rain and high temperature all day

November 20th

Clear after 10th and till 20th. Fog and snow thereafter.

Snowbursts seen at 17th

November 21st

Mist and drizzle.

November 22nd

Fog and showers of snow

Lunar coronas seen at 2nd and 3rd

November 23rd to 28th

Mist, High temperature and heavy rain on these six days.

On the 26th the daily total rainfall was 4.325 in. The hourly falls at 13th and 14th being respectively 0.783 in. and 0.983 in. The latter amount is the greatest measurement of rain (not snow) on record here

The 3rd Observation on 28th was taken at 3^h 11^m

November 30th

Mist and some rain yesterday and today. The hilltop is quite clear of snow, except the remains of a drift in Observatory corners.

1899

December 1st

199

Fog or mist. Temperature falling quickly in early morning. Showers of snow during the day.

December 2nd

Fog in morning: cloudy during the day: cloudless at night.

The 4th observation was made at 4^h 2^m.

Three Ravens were seen at 12^h.

December 3rd

The sky became quickly overcast with cir-cs in early morning: and fog came on after 5^h with showers of snow till 16^h and rain thereafter the temperature having risen decidedly during the evening.

December 4th

Mist or fog. clearing a little to R at 23^h and Indr. Heavy rain till 12^h occasional slight showers of drizzle since. Temp fairly high and steady (39.0 to 36.5)
Today Mr I. Miller came up + Mr. A. Rastin went down

December 5th

Fog lifting for short intervals at 1+2^h but sky apparently cloudy. Sun gleaming at 10^h. Slight showers of rain fell after 8^h
The observation at 18^h was taken 4 mins late

1899

December 6th

200

Summit frequently clear between 11 & 13 hrs but sky cloudy or overcast. At 12 hrs 2 minutes sunshine was recorded. This is the first amount of sunshine recorded since the 20th November. Slight showers of drizzle in early morning and again in the evening. Temp high (40 to 34.1)

December 7th

Mist or fog all day. Fog crystals forming in the afternoon. Occasional slight drizzle in forenoon. Temperature falling steadily all day.

December 8th

Fog all day with slight showers of snow. ESE winds till 13 hrs veering to W and N since 17 hrs. Temp falling till 13 hrs (26.5 to 20.0) rising since 25.0 at melt.

December 9th

Summit clear from 5 till 11^{hrs} and at times sky was cloudless. Fog below all round. Air slightly dry between 8 & 11 hrs. Light N breeze or Calm till 8 hrs. SE 2 times moderate in force towards evening. Lunar Corona seen at 17 hrs. Winter Ther Bar put out on ladder N° 2. at 8.15 hrs. Therm put out by N° 192677 bet 192672 & 192673

1899

December 10th

201

Light to moderate SE winds all day. Temp - low (17.7 to 13.5). Summit clear since 14 hrs but sky pretty cloudy with Cum-S + Cir-S. Fog below all round and at times passing over Summit in afternoon. Haze in distance all round. Air dry after 20 hrs. the lowest humidity being 46 at 21 hrs. Lunar Coronae seen at 19 hrs & Lunar Halo at 20. 21. + 22 hrs

December 11th

Sky cloudy with Cir-S till 4 hrs. fog and clearing at times since. SE winds all day increasing to full force in afternoon but moderating at midnight Temp low and steady (17.2 to 14.0) Snow began falling at 20 hrs but no fang was put out till midnight owing to drift. The measurements of amount from 20 hrs till midnight are interpolations.

December 12th

Fog till 8 hrs. clear since. Sky pretty cloudy with Cir-S all afternoon. Air slightly dry since 4 pm. Some SE near horizon to W all afternoon. Slight haze and fog in valleys most of the day. Wind veered to S at 1 hr. W at 4 hrs. and N at 5 hrs. light and falling calm at 15 hrs. backing again to SE after 18 hrs. Lunar Halo seen from 18 hrs till midn.

1899

December 13th

202

Summit clear till 5 hrs almost continuous fog since. Air dry till 3 hrs. Slight showers of snow fell after 21 hrs. Strong SE² breezes all day. Temp low but pretty steady (19.7 to 15.0) Lunar Halo seen at 1, 2, & 3 hrs.

December 14th

Fair but cold cloudy weather. Fog on Summit since 18 hrs. Temp lower and pretty steadily during the day but rising in the evening. Air dry most of the day. Lowest humidity 35 at 16 hrs. Slight haze in valleys in forenoon. Lunar Corona seen at 17 hrs.

December 15th

Fog. Sun clearing at 10 hrs. Slight showers of snow till 8 hrs and again after 20 hrs. Temp rising (20.0 to 27.4). Variable S² winds. Light in forenoon and strong all afternoon. Considerable drift in the afternoon and wreaths forming round

ObservatoryDecember 16th

Strong S² or SE² winds increasing to a gale in the evening. Temp high & fairly steady (28.2 to 32.0) Mist or fog all day with heavy showers of snow sleet and drizzle.

1899

December 17th

203

SE⁴ gale continued till 5 hrs moderate winds since. Summit clear at times during the day and sky apparently cloudless. Valleys all round filled with fog to fully 4000 ft on which glories were seen at 11 hrs. Lunar Coronae seen at 17 + 19 hrs.

December 18th

Fog almost all day. Sun gleaming at times in forenoon and sky cloudless at 11 hrs but fog passing. Moderate SE⁴ winds all day. Thermometer Bot changed at 11.15. by 535541 wet 535542 + Same trim put out.

December 19th

Fog all day with showers of snow since 20 hrs. Today Mr Henderson arrived here back as Cook and Mr. J. Johnstone went down on holiday.

December 20th

Summit cleared after 13 hrs but sky cloudy or overcast with Cum & Stratus then forming into Cir.C after 20 hrs. Fog & haze in valleys all afternoon. Air slightly dry at times after 15 hrs. SE⁴ winds till 13 hrs. Calm or light N.W. since. Slight showers of snow fell in early morning.

Bot changed at 15.10 Therm by N° 192677 wet 192672 and same trim put out.

December 21st

Sky overcast & nearly so till 5 hrs with Cir-E moving slowly from SE. Fog in valleys all morning rising and enveloping Summit at 6 hrs. Air dry till 5 hrs lowest humidity 64 at 3 & 4 hrs. Wind veering to NNE then E and SE since 7 hrs and light in force all day. Temp falling (28 to 20).

December 22nd

Fog till 12 hrs cloudless or almost so since. Fog in valleys all afternoon to about 3000 ft. Temp very steady all day and air dry from 17 hrs. Light E & SE winds and Calm. Glaciers seen at 14 hrs.

December 23rd

Summit clear till 2 hrs fog since. Slight showers of snow in afternoon. Wind veering from SE to SW at 2 hrs N² at night. Sun also seen at 2 hrs.

December 24th

Sky cloudless at 2 hrs but thick fog & hills all round. Fog during the rest of the day.

Heavy showers of snow all afternoon.

Bar changed at 2.10 Thus N² by 535541 bet 535542 and same wire put out.

December 24th

The observation at 11 hrs was taken 11 mins later. No correction applied.

1899

December 25th

205

Snow falling heavily all day. A considerable amount of ^{new} has formed round about Observatory varying in depth from 1 to 4 feet. Depth of snow at post 9 inches and the big steel bulbs being 48 inches above snow.

December 26th

Summit clear frequently during the day and sky cloudless. Fog in valley all day. Temp low and steady the air being a little dry at 21 hrs. Lunar Corona seen at 6 + 7 hrs. Ther. Bar changed at 9.10. N^o by 192677 bet 192672 and same pen put out.

December 27th

Sky cloudless most of the day but fog in valleys which has been continually passing over hill top all the afternoon. Temp low and pretty steady with light N to NE winds. Clouds seen at 14 + 15 hrs.

Dec 28th

Although sky was cloudless most of the forenoon fog has been almost continually passing over summit finally settling on hill-top after 13 hrs. Air slightly dry from 4 to 11 hrs. Light N to winds till 9 hrs. Calm at 10 hrs. SE since blowing a gale in the evening, becoming very squally after 22 hrs.

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December 29th

Squally ESE winds till 7 hrs variable breezes since chiefly NE^W. Temp rising steadily all day. Some heavy showers of snow fell between 16 & 21 hrs

December 30th

Summit clear at times in the forenoon and again at night. The corrected reading of the barometer at 5^h (24.088) is the lowest yet recorded this year.

Mr. J. S. Begg - along with Mr. W. Henderson Begg & Mr. W. J. Macalister, and Hugh Mackenzie, - arrived to-day to act as observer for a few weeks. Mr. J. Miller went down.

The Thermometer Box was changed at 20^h 15' and put up a step on the ladder. D & W. 53504/1-2 were put out along with Min. 1108531A, previously out

December 31st

Heavy showers of snow from 1^h to 18^h, especially from 5^h to 13^h, during which time 2.203 inches rainfall was recorded. Summit clear at midnight

Instruments etc. for 1899.

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Instruments etc. for 1899.

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1900

January 1st

Summit clear for a few hours before sunrise. ESE^{ly} winds after 6th increasing to gale force at night. Tower thermometer used at 23rd as observer's lamp was blown out. A correction of +0.1 was applied to the reading. Messrs W. H. Begg & Macalastair left today. At half-way they met Miss Rankin and Mr. Holmes, Fort William who had intended to reach the observatory but found it impossible owing to soft snow.

January 2nd. ESE^{ly} gale blowing most of the day with showers of snow after 14th. Tower thermometer used at 1st, 2nd, & 4th and a correction of +0.1 applied to the readings. At 19th the rain gauge was found lying on its side near the tower. Throughout the day the measurements of precipitation are doubtful owing to drift.

January 3rd. Another stormy day; a squally NNE^{ly} gale blowing after 10th; the squalls reaching force 8, 9 & 10. Measurements of precipitation doubtful as before.

January 4th. Strong NNE winds in morning; clear for

1900

211

brief intervals in forenoon and again at night.
Observer's lamp blown out at thermometer box at 1st and
Tower thermometer used then and at 3rd. + a correction
of +0.1 applied to the readings.

Box changed at 23rd 15th. Dry + wet 535321 and
same Min. put out.

January 5th Temperature low all day (15-19)
Summit clear till ~~5th~~ 17th but sky overcast or
nearly so with cirro-cumulus + no sunshine recorded.

Fog with slight showers of snow at night.

January 6th Strong SE 9 breezes with showers
of snow till 17th. Air almost calm thereafter.
Summit clear at times though sky overcast
with a strip of green sky on the horizon to NNW at 15th.

January 7th Light N 9 breezes during the day,
backing to SW at night. Mt. Fraser, Glen Nevis
up to day.

January 6th Pressure remarkably uniform - 25.008
to 25.013 - from 13th till 2nd on the 7th when it commenced
to rise slowly. Mist with slight drizzle at
mid - Temperature 24.5.

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January 8th

Ice with heavy showers of snow. The centres of two well marked depressions passed today — one at about 3^h & the other about 21^h.

January 9th

Squally northerly winds ~~at~~ most of the day with heavy showers of snow.

Measurements of precipitation doubtful owing to drift; — no amount entered from 22^h to Midt, though there was snow in the gauge.

Summit clear after ~~9^h~~ 21^h.

Two sharp clicks on the telephone instrument at 16^h 43^h.

January 10th

Summit clear after 16^h but air saturated till 21^h when a slightly dry reading was obtained. At 22^h the sky was overcast with cir. stratus, with lunar halo and air saturated. At 23^h the cloud had thickened and ^{somewhat} sunk, the moon gleaming without a halo or corona & the ^{rel.} humidity 29%. At midnight it was snowing & air almost saturated again.

Bar changed at 17^h 30^h. B. 192677 W. 192672 & same B. in put out. Measurements of snowfall in early morning doubtful owing to drift.

1900

January 11th

213

Temperature high, rising above freezing-point at 17^h. This is the first hourly reading above 32° since noon on December 7th 1899 - an interval of just five weeks. The thaw continued for exactly 24 hours, reducing the depth of snow five inches. Icy fog crystals were forming in the early morning and there were some slight showers of drizzling rain at night.

The Thermometer Box was changed at 10^h 15' owing to one of the covers of the box door being in a broken condition. S. & W. 535541-2 & same Min. put out.

January 12th

Heavy rain from 10^h till noon. Mist with slight drizzle at night - temperature 30° and ice forming on exposed surfaces.

January 13th

Mist with showers of snow drizzle and sleet after noon, & ice forming.

January 14th

Summit clear at 3^h and again about 10^h & 15^h. at 3^h. the sky was covered with cirro. cumulus; motion from SW, pretty quick; wind on summit NW, force 1. After 3^h. the wind backed steadily, a moderate SSE^{ly} gale blowing from 17^h to 21^h. Showers of snow after 19^h. but the amount of precipitation doubtful owing to drift. J. Johnston returned to day & W. Henderson went down. The 16th observation was started 2' late.

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January 15th

Fog with heavy showers of snow all day. Temperature fell steadily from 30° at 2^h to 19° at 17^h, remaining steady thereafter. The 5^h observation was started 10' late; no correction applied.

January 16th

Temperature very steady all day 21-23. Clearing to N⁴ and sun gleaming occasionally between 11^h & 14^h.

January 17th

Barometer fell steadily till 14^h, was 'up' distinctly at 15^h, fell again till 20^h & then rose briskly. Heavy showers of snow after noon. The wind which was S⁴ at 20^h had veered to W at 21^h & to NE at 22^h, there being heavy squalls from 21^h 45' to 21^h 50'.

January 18th

Temperature low and steady (19° - 23°) till 16^h, rising thereafter to 28° at midt. Summit clear at 16^h. Sky cloudy with cirrus moving from N⁴W, & the horizon to SSW was a vivid green. Snow lying to about 600 feet above sea level. Ba changed at 16^h 15'; S & W. 1926 77 - 72 put out and same min. Fog was 'on' again at 17^h. Two fine ravens seen at bucket stage at 16^h. The wind backed from N⁴W at 16^h to SSW at 21^h. Drift very bad at midt.

1900

January 19th

215

Very disagreeable weather till 9^h. - Squally Southwesterly winds with extraordinarily heavy snowfall and very bad drift. The measurements up to 13^h amounted to just over four inches, though they are somewhat doubtful owing to drift.

The centre of the storm passed about 11^h 20'. The wind then shifted to W or NW and the temperature fell considerably. There was a distinct thaw in the forenoon, though there was no hourly reading above 32°. There were frequent showers of snow and snow-hail after noon and St. Elmo's Fire - not very strong - was observed at 22^h and midt. - snowhail falling on both occasions. At midt. the observer in holding a pick, point upward, felt a distinct shock up the arm. At 1^h the rain gauge was found lying on its side full of drift and the amount at 1^h is therefore interpolated. At 3^h, 4^h & 5^h the Dry and Wet Bulbs - stems, bulbs and casings, were found completely buried in snow. Clicks on the telephone instrument due to earth-currents were heard frequently throughout the day - strong at 8^h 30', 12^h 25', 16^h 30', 18^h 55', & 22^h 31' and moderate at 10^h 40', 10^h 45', 19^h 40', and 21^h 45'.

1900

January 20th

216

Temperature very steady all day (23.7-25.5)
Heavy showers of snow and snow-hail most of the day.
St. Elmo's fire pretty strong at 2nd.

Dry and Wet Thermometers in Box changed at 10th 10th,
as the ones out - 192677-72 - were not reading satisfactorily.
Dry and Wet 535541-2 put out.

January 21st Temperature rising to 29.8 at 16th,
when drizzling rain was falling and ice forming on
exposed surfaces. Temperature fell thereafter with
a shift of wind from SW to NNW and there were heavy
showers of snow during the rest of the day.

A slight click was heard on the telephone instrument
at 23th 51st.

January 22nd Barometer falling and temperature
rising till about noon. Temperature remained about
35° thereafter and barometer rose slowly.

Exceptional amount of precipitation all day; snow and
snow hail till 8th; rain thereafter. An inch and a half
fell in two hours ending 10th and over four inches in the
eight hours ending 14th. Total rainfall for the day
6.812 inches. This is, with the exception of October
3rd, 1890, the wettest day on record here.

1900

217

January 23rd

Glazed Frost from 8^h to 18^h. Thaw
before and after. Showers of rain and drizzle throughout
the day. Depth of snow down three inches.
Rainfall for 24 hours ending 2^h today, 7.138 inches.

January 24th

Thaw till 3^h & temperature high and
steady (33-28) till 14^h; falling quickly thereafter
to 23° at 18^h. Ice forming at 4^h - temperature 31.2.
Summit clear at 5^h but sky cloudy with cirro-
stratus and cirro cumulus. Thick fog-heaps, with
irregular contours on hills below; on which the moon
(in last quarter over Glenae) produced beautiful
light & shade effects.

Clear again at 17^h & 18^h; sky overcast with pall
of cumulo-stratus which overshung the hills all
round, and made the aspect very gloomy.

Rain-gauge glass broken at 17^h 50!

Buchanan, the lineman, up today.

January 25th

Stormy weather in early morning - squally
with easterly winds with showers of snow & bad drifting.
Temperature rose to 30° at noon & remained pretty
steady thereafter. Glazed frost with showers of rain
and drizzle till Midnight - when the temperature was 32°.

1900

January 26th

218

Stormy weather till noon. Showers of rain and sleet all morning with strong squally southerly to south westerly winds, blowing with gale force at 9^h, 10^h & 11^h. The centre of the storm passed about 11^h 30', the usual indications of the passage being very clearly marked; the rise in pressure was exceptionally abrupt - see barograph ^{curve} for the day.

Ice forming at times ~~in the~~ before noon, the temp. - centus up to 11^h ranging between 31.2 and 32.1, it fell thereafter to 19.3 at 19^h & then remained almost steady. Earth currents at 14^h 15', 14^h 43' and 20^h 29'.

January 27th

Fog or mist with showers of snow.

This Bar changed after 13^h to 192677 Wet 192672 and same minimum put out, height above snow not altered.

Today Messrs Bruce & Carmichael arrived at the obsy and Messrs Begg & W^m. Rankin left for Fort William.

January 28th

Clear at times during the day, showing a cloudless sky, squally northerly winds and showers of snow throughout the day. Barometer pumping slightly all day

1900

January 29th

219

Clear at 1 and 2 Hrs and again at from 12 Hrs till 16 Hrs (incl). The air was slightly dry in afternoon.

Thermograph Boy changed after 5 Hrs & raised one step on ladder, height above snow altered from 20 inches to 41 inches.

Barometer pumping slightly most of the day

January 30th

Squally Easterly winds till 10 Hrs; Summit cleared after 5 Hrs, and remained clear till 17 Hrs when fog again came on. The 12th Obs. was started at 12^h 4^m (No correction applied to readings)

Today Mr R. H. Macdonnell arrived at the Observatory and Mr Bruce left.

January 31st

Summit clear at 14 & 15 Hrs and again after 19 Hrs till 22 Hrs, air saturated with passing fog.

A Raven was seen at the Bucket stage at 16 Hrs

8 Visitors ascended Ben Nevis in Jan

February 1st

Fog and showers of snow till 9 Hrs clear but sky somewhat cloudy thereafter.

Raven seen on summit at 16 Hrs

February 2nd

Clear and sunny most of the day but clouds hanging over surrounding hill-tops and passing over Ben occasionally.

Boy changed after 5 Hrs Sig 192677 wet 192672 & same minimum put out. Height not altered

1900

February 3rd

clear at 1^{hr}, thin fog till 16^{hr}, and cloudless thereafter. Humidity as low as 40% at 22^{hr} and mid^t.

Today Mr. William Rankin arrived here, and Mr. Carmichael left.

February 4th

Sky cloudless or nearly so, and air dry till 6^{hr}. Thin fog with a few breaks the rest of the day.

February 5th

The summit was clear and the sky cloudless or nearly so till 8^{hr}. Enveloped in a thin fog the rest of the day, the air was saturated all morning with passing fog.

Lunar coronas seen at 20^{hr}, 23^{hr} and mid^t.

3 Ravens on summit at 14^{hr}.

February 6th

Clear for a few hours in the forenoon, and again at 20 & 21^{hr}.

Temperature falling slowly all day (14-10)

February 7th

The hill-top was clear most of the day, but fog lay heavy on the surrounding hills, and was passing over the Ben very frequently. Lunar coronas at 2, 18, & 19^{hr} and a Lunar Halo at 23^{hr}. Box changed after 10^{hr} Dry 535521 Wet 535522 put out.

The 19^{hr} Obs. was started at 19^{hr} 4^m.

1900

February 8th

221

clear and air very dry till 10⁴⁵
 Fog till 21⁴⁵, and clear again till mid⁵
 The humidity was as low as 30% at 6¹⁵
 In the early morning, the air being very
 clear, a number of the West Coast lights
 were seen.

February 9th

Cloudless at 1⁴⁵, fog till 14⁴⁵, clear
 and sky slightly clouded thereafter.
 A Lunar corona at 1⁴⁵ and a Lunar Halo
 at 20⁴⁵; after 20⁴⁵ and on till mid⁵ a
 number of the West Coast lights, including
 Malneish (S. West) Barra Head, & Sherryoon, etc.
 were distinctly seen.

February 10th

Temperature very low and sky
 absolutely cloudless all day. Fog lay over
 the Caledonian Canal and Loch Eil all
 forenoon, disappearing after 12⁴⁵. The West
 Coast lights were distinctly seen in early
 morning and again at night.

February 11th

Temp. still low but rising slightly
 (8° to 13°), sky practically cloudless, and ~~about~~
 the possible visibility being observed most
 of the day. Fog over Canal & Loch Eil, and also
 on surrounding hills all morning. Humidity
 23% at 23⁴⁵; L. corona at 5⁴⁵; 4 Ravens about
 summit all forenoon

1900

February 12th

222

cloudless and air dry till 5^{PM}.
Fog and heavy showers of snow the rest
of the day. Temp. rising steadily. (11° to 18°)

February 13th

Showers of snow in forenoon, Fog.

February 14th

Temp fairly steady (18° - 22°) Fog, Light
S or SW^{ly} winds backing to SE at night.

February 15th

Moderate SE^{ly} winds till 8^{PM}, in-
creasing to gale force at 10^{PM} & continuing
with a velocity of 90 to 100 miles per
hour till mid^{ny}; Some showers of snow
fell in forenoon and again after 1^{PM},
but owing to the amount of snow-drift
the values entered in the daily sheet are
interpolations. The tower thermometer
was in use from 18^{PM} to 23^{PM} (incl.)

Barometer pumping heavily all day

February 16th

The gale which blew throughout yester-
day, fell to a moderate breeze after 2^{PM}
today, and veered from SE to W & NW.

Heavy showers of snow fell.

1900

February 17th

223

clear and sky cloudless at 6^{PM}. Fog the rest of the day. Some showers of snow fell this evening.

February 18th

Fog all day, and heavy showers of snow and snow-hail in forenoon. St. Elmo's fire was noted at 4 and 8^{PM}.

February 19th

Showers of snow throughout the day. Squally SE + ESE^{ly} winds in forenoon backing to N + NE at night.

February 20th

Strong squally N^{ly} winds all forenoon, moderating in force towards evening.

At 1^{PM} the rain-gauge was found under the thermometer box, choked with drift, and at 2^{PM} it was not found at all.

The 13^{PM} observation was started 3^{mins} late.

Barometer pumping heavily till noon.

February 21st

Fog till 6^{PM} clear the rest of the day. Thermometer box changed after 11^{PM}. Dry 192677 Wet 192672 and same min (1108531st) put out.

At 8^{PM} 3 Snow-buntings and 2 Ravens were seen about observatory.

1900

February 22nd

224

A steady SE^h gale, with a velocity of 60 to 80 miles per hour, ~~was~~ blew throughout the day. The summit was clear and the air slightly dry at 142nd of the rest of the day.

After the mid^l observation last night, while the observer was wiping the stems of the thermometers, which were getting covered with snow-drift, the West bulb N^o 192672 was accidentally broken. Q^u 535541 West 535542 were put out at 0^h 15^{min} am.

February 23rd

A strong SE^h breeze bearing to SWSW after 18^h and moderating somewhat in force towards midnight. Temperature rose slowly all day (24°-30°), and heavy showers of snow and sleet fell in evening.

February 24th

Fog or mist all day. Temperature kept fairly steady (27.3 to 31.3). Slight showers of snow or sleet fell in early morning and again in afternoon.

February 25th

Thin fog till 15^h, clear and almost cloudless thereafter.

Thermometer box changed after 14^h am.
Thermometers put out (535541, 535542) 11085 31^{min} A
put out.

1900

February 26th

225^{Hrs}

cloudless till 5 Hrs, fog till 9^{Hrs} and clear again, but sky slightly clouded till 21^{Hrs}. Fog lay in the valleys nearly all day, but the air was dry while summit was not actually enveloped in fog.

February 27th

Strong squally Northerly winds with fog, and some slight showers of snow, Barometer pumping slightly all day.

February 28th

clear and sky almost cloudless for a few hours in forenoon, fog the rest of the day.

Temp. of Bar. unsteady most of the day, and Barometer pumping all day.

March 1st

Fog till 10 Hrs. cloudless thereafter, with Cumulus fog in valleys all round.

A number of the west coast lights were seen after 20^{Hrs}.

Box changed after 13^{Hrs} same thermometer put out again.

March 2nd

cloudless in forenoon except from 4 till 6^{Hrs} when hill top was enveloped in fog. Fog all evening. Aurora seen at 1 + 2 hrs. Glory at 8^{Hrs}, Box changed after 10^{Hrs}.

1900

March 3rd

226

sky cloudy most of the day.
Heather was seen burning in valleys
all round below. The West coast lights
were seen in early morning, and between
16 + 17^{Hrs} 2 ravens and a snowbunting were
seen.

March 4th

cloudless all day, and air dry,
Humidity being as low as 16% at 1^{Hr},
coast lights were seen all evening

March 5th

Absolutely cloudless, some heather
was burning in valleys throughout the day.
(Temp 31 to 37)

March 6th

cloudless, with detached fog on
surrounding hills all day. The coast lights
were seen in early morning + again at night
3 Ravens seen at 15^{Hrs}

March 7th

Cloudless till 15^{Hrs} fog passing
at times thereafter, Lunar coronae were
seen at 19, 23, + 24^{Hrs} and a lunar fog-
bow at midt

The 18^{Hrs} observation was started
4 minutes late (no correction applied)

1900

march 8th

227

clear for a few hours in early morn
but fog passing + air saturated.

Fog after 9^{11th}. The 3^{11th} observation was
started 4 minutes late,

2 Ravens seen at 11^{11th}

march 9th

Fog all day, 2 Ravens were observed
about summit most of the day

march 10th

Clear & cloudless most of the
day, but air saturated and fog passing
Very thick haze lay in valleys, due pro-
bably to the amount of heather burning

march 11th

Hill-tops clear at 9 & 10^{11th} and again
at 19 & 20^{11th} Fog the rest of the day

The 12^{11th} observation was taken 4^{mins} late

Dark brown fog crystals forming all day

march 12th

Fog and showers of snow & sleet
all day, Bar pumping from 11^{11th} till 12^{11th}

1900

228

March 13th

Summit clear at times between 5 + 14 hrs
blazed frost at 23 hrs + melt. Squally N or NE winds
all day. Haze from E to S. Strong Earth currents
on Telephone at 21^h 30^m + 21^h 50^m. 3 Ravens seen at 10^h
Bar changed at 13^h 10^m Thermometer thawed and
put out again N^o 535541 - 535542 & Min 1108531 A

March 14th

Showers of drizzle sleet and snow
Today Mr. J. Miller came up and Mr. R.
Mc Donnell went down having volunteered
his services for South Africa

March 15th

Squally N or NE winds with heavy
showers of sleet snow and hail. Summit
clear for short intervals in the evening
Barometer & Temperature falling rather
quickly all day. Ice crystals forming in early morning

March 16th

Temperature low & steady (15.2 to 11.0)
Occasional showers of snow till 13^h fair
during the rest of the day. Summit clear
at 5 + 6 hrs and stay almost cloudless
but slight fog passing at times

1900

March 17th

229

Summit clear since 9^{hrs} but sky a little cloudy chiefly with Cirro-Str on which a Lunar Halo was seen at 22^{hrs} 23^{hrs} + melt. Air dry at times in the forenoon. Light N or NE air and Calm till 18^{hrs} S or SE since West Coast lights seen at 20^{hrs}.

Bar changed at 11^{hrs} 10^{hrs}. Same Thermometer put out again viz by 535541 wet 535542 and min 1108531 A

March 18th

Thin fog from 8 till 14^{hrs} Clear since but sky a little cloudy till 18^{hrs} cloudless thereafter. Fog on hills to E+S most of the day and at times passing over summit. Temp pretty low all day. Air dry at melt. A little snow falling at 13 + 14^{hrs} but the amount was not measurable. Lunar Halo seen at 143^{hrs}.

March 19th

Temperature low in morning but rising during the day. Air dry in forenoon. Sky cloudless till 4^{hrs} Cloudy till 10^{hrs} fog time. Light showers of snow in afternoon. Fog on hills and Cirrus above horizon to S in forenoon. N or NE winds till 21^{hrs} ESE since. Lunar Halo seen at 5^{hrs}.

1900

March 20th

230

Strong ESE winds from 8 to 15^{hrs} light to moderate since. Summit clear till 6^{hrs} and again after 14^{hrs} but sky cloudy or overcast fog on hills & thick haze all round most of the day. Air dry for a few hours in early morning lowest humidity 45 at 5^{hrs}. Lunar Halo seen at 3^{hrs}. Bar changed at 20.10^{hrs}. Thermometers thawed and put out again.

March 21st

Summit clear at times with short sunny intervals during the day. Sky apparently cloudy or overcast and fog on hills all round. Pressure and Temperature very steady all day

March 22nd

E to NE winds all day, strong and squally in the evening. Fog clearing at times during the day, but sky cloudier at midnight. Temperature rising slowly all day. Slight showers of snow in early morning. Barometer pumping since noon

1900

March 23rd

231

Fine clear sunny weather. Sky nearly
 cloudless but considerable fog on hills which
 enveloped summit at 15 hrs. Strong squally
 E^{ly} or NE^{ly} winds till 10 hrs light breezes since.
 Slight haze in distance to 5 in forenoon
 Temp fairly steady all day. Air slightly dry
 from 11 to 14 hrs. A Solar Halo with Mock
 suns seen at 14 hrs. Box changed at 10th 10^m
 Thers brought in, thawed & put out again
 Today Mr. S. Cameron along with ~~Angus~~
 Mackenzie left the low level oby for the
 Ben. The former was done up at the Crystal
 fountain. The Cook in the meantime went
 down to meet the party and had to assist
 in getting Cameron down ~~the~~ ^{to Fort William} ~~again~~
 Mr. W. Rankin who had also gone to meet
 the party coming up. had a nasty slip on
 the side of the hill, but manage ~~to~~ to reach
 the summit again ~~with~~ ^{help} a few bruises
 and is confined to bed. The sides of
 the hill are very icy.

 March 23rd

Barometer pumping till 10 hrs

1900

232

March 24th

Summit clear frequently during the day but sky cloudy, but cloudless after 19 hrs. Fog and haze in valleys most of the day. Air dry in afternoon lowest humidity 15 at 21 hrs. Today Mr J. Afflick and S. McLaren came up the former to act as observer

March 25th

Sky cloudless and air very dry at 1 hr the humidity being 22. almost continuous fog since. Strong squally N winds in afternoon with slight showers of snow. Barometer pumping after 16 hrs. Wm Rankin + S. McLaren left observatory for Fort William but had to turn back after reaching post above Buchans well owing to thick fog and walking very slippery

March 26th

Summit clear at times with short sunny intervals between 11 + 16 hrs.

Barometer pumping since noon

March 27th

Temp low. Light winds all day N or NE till 7 hrs backing to SW. SE + E since. Summit clear at 7 + 8 hrs but sky overcast or nearly so. Slight showers of snow fell between 9 + 17 hrs. Mr Wm Rankin + S. McLaren went down to Fort Wm today & reported side of hill easier walking. The icy surface having a slight covering of fog crystals

1900

233

March 28th

Summit clear after 6 hrs. Sky cloudless till 12 hrs. Cloudy or overcast till 19 hrs. Fog since with slight showers of snow. Air dry day at times the humidity being 33 at 11 hrs.

Bot changed at 8:15^{am}. Thermometers thawed and put out again. Three Ravens and a Snow bunting seen in the afternoon.

March 29th

Fair but fog off and on all day and sky cloudy and at times overcast. Light airs all day till 4 hrs. fog since. Today Mr. S. Cameron came up to take duty as observer.

March 30th

Fog till 5 hrs. Summit clear and sky almost cloudless till 12 hrs. overcast or nearly so till 19 hrs. Cloudless since. Thick haze in valleys all day. Air dry since 5 hrs.

March 31st

Temperatures fairly high and air dry all day. lowest humidity 62 at 21 hrs. Sky cloudless till 10 hrs and again after 18 hrs. Thick haze around all day and rising to about 12° above horizon. Light to moderate S or SSE winds.

1900

234

April 1st

Thick haze around all day. Sky cloudy with Cu + Cu-S most of the day on which a Solar Halo was seen at 16, 17, + 18 hrs.

Moderate to strong S to SSE winds all day. A mail carrier from Edmund + Guide came up today and returned to 7:00^{pm} in evening.

April 2nd

Fog came on after 1 hr but Summit clear again at 5 + 6 hrs. Continuous fog since. Day slight snow fell in forenoon in fact so little that it could not be measured. Temp high today rising to 32° at 10 hrs and remaining fairly steady since.

April 3rd

Barometer falling rapidly all day. Wind N or calm till 2 hrs backing to NW + S till 12 hrs SE or ESE since and blowing a moderate gale in the evening. Summit clear at times till 8 hrs and sky apparently cloudless but great banks of fog on surrounding hills. Snow falling in the evening, but no rampage in ice owing to draft. The measurements of amount of snow fall from 21 hrs till melt are interpolations.

1900

April 4th

235

Strong ESE² winds till 3 hrs moderating in force till 11 hrs Calm or light N² air since Barometer rising slowly since 9 hrs Showers of snow throughout the day. The measurements of amount of snow at 1st 2nd 3rd + 4th are interpolations. Rain gauge put out at 4th. Fog crystals forming in early morning

April 5th

Hill top clear frequently during the day and apparently very little cloud on sky. Heavy showers of snow in afternoon. Temp somewhat unsteady between 8 + 14th. The thermometer Bar changed at 22nd 10. Same instruments put out again

April 6th

Summit clear frequently during the day and air slightly dry. Considerable surface drift all afternoon. Temp much lower today 19.5 to 25.1. Light S or SE winds all day, light to moderate. Fog low and flurries seen at 6 hrs

April 7th

Fog till 6 hrs. Summit clear since. Sky slightly cloudy during the day but cloudless after 21 hrs. Air dry at times after 8 hrs. Strong ESE²

1900

236

- winds till 7 hrs. Calm or light Variable
 since. Hazy all day very thick in the afternoon
 fog crystals forming in early morning. A good
 deal of surface drift till 3 hrs. The snow on
 hill-top being considerably broken into ruts &
 ridges. walking is somewhat stiff

April 9th

Sky almost cloudless till 10 hrs. Summit clear
 at times since but sky overcast with low stratus
 thick haze all round. Calm or light W & W
 winds till 6 hrs backing to S + SE and light
 & moderate in force. Air slightly dry at times
 temperature fairly steady all day. 22.7 to 26.6.

April 9th

Temperature fairly steady about 27° till 15 hrs
 falling since. Fog all day with heavy showers
 of snow. Strong SE winds till 3 hrs very variable breezes since

April 10th

Fog all day with heavy showers of
 snow. Variable winds all day, chiefly
 ENE^{ly} and somewhat squally in the early
 morning. Temp fairly steady 22.4 to 26.1

1900

237

April 11th

Fog & mist all day with showers
of snow till 8 hrs and again after 22 hrs

April 12th

Heavy showers of rain sleet & snow
during the day. Temp steady at 29° till
6^{hrs} rising till 15 hrs 33° falling slowly since
to 25° at night. Barometer falling rapidly
since 9 hrs. Variable W & NW winds
all day rather squally after 10 hrs.

Barometer pumping all afternoon

April 13. - Bar: low in early morning
but rising rapidly during the day. -
showers of ~~snow~~ snow & drizzling
rain till 15 hours.

Today Mr Marshall along with
a friend (Mr W Grant) arrived at the
Observatory - the former back as
Observer.

April 14th - Bar: steady on Saturday
Temperature rose rapidly in the early
morning then after becoming steady
squall ~~partly~~ winds - mist or fog &
snow with showers of rain & sleet

N.B. &
April 14th
Today Mr S. Milner
went down to P.F.O.

1906

238

16th April - Bar. rising all day -
Temperature fairly low & steady. Varying
Easterly winds - Mist lifting towards mid-
day - Snow drifting rapidly -
✓ W. Grant (Mr. Marshall's friend)
left today -

17th April - Bar. rising steadily all day
Temp. also rose steadily till 2 p.m.
showing a steady but slight falling since -
Mist on summit all day -

18th April

Barometer rose steadily all day - Temp.
high and steady - Light westerly winds -
Mist on summit all day with slight
rain -

19th April Bar. high & steady all day
Temp. rose rapidly in early morning
remaining steady since - Light westerly
winds fog in valley all day -

1900 20th April - Baromet. high but falling
slightly towards night - Temp. high & steady -
light westerly winds. - Snow 78 inches
see below ~~A member of the Alpine Club (a Mr. Hastings to name) climbed the Tower Ridge.~~

21st & 22nd April - Bar. high on Saturday falling this
morning. Temp. high on Saturday - light westerly
winds both days - misty today
Depth of snow 73 inches today - 70 inches
on 22nd - A member of the Alpine
Club London (a Mr. Hastings to name)
climbed Ben Nevis on 21st by Tower Ridge
and on 22nd (Sunday) reached summit
by ordinary route - the day being misty
for attempting any of the ridges. -

23rd Bar falling slightly - Temp. fairly
high & steady - light northerly wind mist
all day - Snow 66 inches -

24th Apr - Baromet. falling - Temp. falling
light easterly winds - mist since 8 am.
Snow 66 inches. -

1900

25th April. Barometer steady. Temp. very low in early morning rose during day. Clear on summit with bright sunshine. Snow 65 inches. —

26th April. Barometer falling. Temperature low in morning but rises during day. — Mostly north-westerly wind. — Mist on summit all day. — Snow falling & drifting. — Snow 69 inches. —

27th April. — Barometer steady. — Temperature rising steadily. — Calm or light northerly wind. — Clear on summit till 4 o'clock. — Thereafter misty. — Snow 70 inches. — Mr. Marshall left today. Mr. Apperath came up to assist till Mr. Saint arrives on 30th. — There were 5 tourists up. —

28th April. — Barometer falling. — Temperature steady. Light northerly wind with mist on summit. — Snow 72 inches.

29th April. Barometer rising since early morning. — Temperature falling but rising since noon to day. — Mist on summit. — Snow 72 inches. —

1900

241

30th April - Barometer steady. Temp -
fairly low but gradually rising. - Calm or
light Westly Winds with slight showers
of snow - Mist or fog on summit more or
less all day. - Snow 72 inches. -

1900

1st May - Barometer rising till 2 P.M.
falling since - Temperature rising - Variable
light winds all day with intervals of
bright sunshine. Clear on summit
since 8 A.M. (Cold ^{SE} winds after 5 P.M.)
Mr. Fisk arrived up to assist.

2nd May - Barometer steady - Temperature
high and steady - Squally South and
South Westly Wind especially during
the hours of 1-2 & 3 A.M. - thick on
summit all day - Mr. Affleck was
instructed to report on the condition of
the premises on instruments - also
to take an inventory of the stores -
Depth of snow 70 inches -

3rd May - Barometer fell rapidly till noon
but showing slight rising since - Temp.
fairly high and steady - Strong & squally
S. & E. S. E. winds with snow & sleet
falling - Mist on summit all day -
Snow on summit - 68 inches - Mr.
Affleck left today -

4 May - Barometer rising - Temp. fairly high &
steady - Strong & squally South & S. Westly
winds with showers of snow & hail all
day - Mist on summit all day - Snow 64 inches

900

5th May. - Bar. rising slightly. - Temp. steady squally South and South West Wind in early morning thereafter moderate in force clear on summit till 1 p.m. - Showers of rain & sleet in early morning afterwards clear all day. - Depth of snow on summit 65 inches. -

6th Bar. rising slightly. - Squally S. & S. West Wind. - clear on summit. - Depth of snow 62 inches. -

7th May Bar. rising slightly. - Temp. high all day but falling tonight. - Light easterly & South easterly breezes with drizzling rain till 6 p.m. thereafter clear on summit. - Depth of snow 63 inches. -

8th May. - Barometer rising. - Temp. rising till 3 p.m. thereafter falling. - Calm or light South Wind till 3 p.m. changing to North N. E. afterwards. - Clear on summit all day with bright sunshine. - Depth of snow 60 inches. -

9th May. - Bar. rising all day. - Temp. high but unsteady. - Light Easterly breezes clear on summit all day. - Depth of snow 58 inches. -

1900

10th May - Barometer steady - Temp: rising
 Mist on summit all day. Depth of snow
 58 inches - light easterly breezes -

11th May - Bar: steady all day - Temperature
 low and steady - Clear and calm on
 summit all day - Mist falling at
 night - Depth of snow 57 inches -

May 12th Showers of snow throughout the day
 Summit clear at times in evening but sky
 overcast and air slightly dry at times

May 13th Summit clear frequently and air slightly
 dry during the day with short sunny intervals
 Fog-bow seen at 19⁴⁵

May 14th Clear and air dry almost all day
 Temperature low in early morning but
 rising quickly in the afternoon to abt
 32 degs at 15 hrs fairly steady thereafter

May 15th Fog or mist till 6 hrs clear and dry almost
 cloudless since Temp high all day and air pretty
 dry at times. lowest humidity 54 at 12⁰⁰ fog
 in valleys to N + S most of the day. Today Mr
 J. Miller came up + Mr Johnston left observing

1900

May 16th

245

A very fine day with over 13½ hours sunshine. Temp high and air dry. lowest humidity 51 at 8 hrs. Fog rising in Glen Nevis after 21 hrs and at times passing over summit. Solar Halo seen at 19 + 20 hrs. Thermometer bot lowered one step on ladder. Height of bulbs above snow 54 inches

May 17th

Summit clear from 15 to 17 hrs inclusive but sky almost overcast

May 18th

Hill-top clear from 11 to 20 hrs but sky overcast or nearly so. Thin haze all round in afternoon. Snowbunting seen at 10 hrs

May 19th

Fine sunny weather in forenoon but considerable banks of fog on hills to N + NE. Snow falling after 21 hrs

May 20th

Slight showers of snow almost all day. Summit clear for a few minutes at 21 hrs. Today Mr. L. Miller went down and Mr. G. Laurie came up to act as Cook and Steward at the Observatory

May 21st

Mist all day with heavy rain from 10 hrs

1900

246

May 22nd

Temp steady between $31^{\circ} + 33^{\circ}$ all day with heavy showers of snow and hail. Summit clear from 16 to 18 hrs and air slightly dry. A Fog-bow seen at 16 Hrs. Earth currents on Telephone during the day. A Raven seen at B. Stage at 11 hrs

May 23rd

Fog or mist all day with heavy showers of snow and sleet

May 24th

Occasional slight showers of snow during the day

May 25th

Heavy showers of snow till 6 hrs but clear sunny intervals during the day. A Bonfire was lit at edge of Cliff this evening to celebrate the relief of Mefting and Queen's birth day

May 26th

Summit clear and air slightly dry during the day. Fog on hills below and haze all round. Temp rising all day 31.2 to 38.8

May 27th

Heavy showers of rain drizzle & sleet

1900

247

May 28th

Mist all day with showers of rain

May 29th

Mist till 11 hrs, fine and clear since
though sky somewhat cloudy. Air slightly
dry after 15 hrs

May 30th

Sky cloudless till 8 hrs. Slightly cloudy
during the rest of the day. Air during the
humidity ranging from 52 to 91.
Cum-fog in distance almost all day

May 31st

Sky cloudless or almost so till 10 hrs
cloudy or overcast till 21 hrs fog since
Calm or light variable air all day
Fog in valleys all round but clearing
away towards evening except to S

June 1st

Pressure & Temperature high. Light N^W wind
or calm all day. Very fine and sky ~~clouds~~
almost cloudless ~~all day~~ in forenoon a little
Cum on sky in the afternoon cloudless again
at night. Fog below all round in early morning
on which glories were seen at 4 hrs. Very hazy
to S all afternoon. Observation at 18 hrs was
taken 15 minutes late. No correction applied

1900

248

June 2nd

A very fine day. Not a cloud on sky all day. but fog in valleys in early morning and haze to W all day. Air dry. The humidity ranging from 45 to 86.

June 3rd

Haze and fog in valleys most of the day. Sky cloudless till 3 hrs a little cloudy during the rest of the day.

June 4th

Light variable air or Calm. Sky cloudless at times and very fine and clear. Haze low down all day.

June 5th

Sky cloudless or nearly so till noon but very cloudy thereafter. Fog in valleys to N in forenoon and thin haze to S $\frac{1}{2}$ all day.

June 6th

Light N $\frac{1}{2}$ winds till 2 hrs backing to S + SSE in afternoon. Heavy showers of rain after 17th with mist + nimbus. Thunder and strong earth currents on Telephone between 12 + 15 hrs.

June 7th

Mist or overcast sky all day with occasional heavy showers of rain till 13 hrs fair thereafter. Earth currents on Telephone at 3^h 25^m and again at 14^h 55^m.

1900

249

June 8th

Mist almost all day. Sun peering
at 16^h. Slight showers of drizzle at 5+6 hrs

June 9th

Mist all day with drizzling rain
since 5 hrs

June 10th

Mist with showers of rain till 12 hrs
fair since. Summit clear since but sky
cloudy or overcast. Air dry all afternoon
Earth currents on telephone frequently between 21-22^h

June 11th

Mist fog or cloudy sky all day. Air
slightly dry at intervals during the day. S or
SE winds all day strong in the evening
strong Earth currents on telephone after 19 hrs
Snow has all thawed away from snow
post but there is still a few wreaths on
hill-tops and along edge of cliff varying
from 1 to 6 feet. Today Mr J. Miller came up

June 12th

Fog or mist till 11 hrs Summit clear
since but sky cloudy or overcast. SE^{ly} winds
all day strong in the morning but
light in the afternoon. Temp high all day.
Lightning seen at 1^h 8^m. Thunder & lightning
at 1^h 55^m and apparently close to Summit

1900

250

— Thunder lasted about 20 seconds then intermittent lightning (1.57 1.59 2.3) Thunder heard during observation. Thunder at 2.28 and strong Earth currents on telephone all morning till 7 hrs. Telephone found broken about noon. Thunder & lightning in distance at 20.17. Severe Thunder & lightning came up quickly from the SE+S. The summit being in centre of storm cloud at 20.43 and lasting till 20.59. Mist on & heavy rain falling but clearing & storm passing to NNE.N. & NW. The office stove and electric connections discharging & exploding seven times. The interval between each flush varying from 3 to 9 seconds with fearful thunder claps while hill top was in centre of storm. Thunder & lightning at intervals in distance till 23 hrs. None of the observers were injured. The observation at 21 hrs was taken 15 mins late. No daily weather report sent to Newspapers tonight. Today Mr. W. Rankin went down the hill.

1900

251

June 13th

Summit clear at times in early morning
and again in afternoon. Strong ~~SE~~^W to ~~SE~~^W
wind blowing all day. Thunder and
lightning frequently from 1:30 to 2:40 at
intervals of about one minute. Thunder
again heard at 16:34 16:39 16:41 16:44
+ 16:51

June 14th

Mist till 10 hrs clear since but sky
cloudy and fog passing continuously
over summit. Slight showers of rain till
4 hrs. Lunar Coronae seen at mid

June 15th

Fair but sky very cloudy all day
Haze below all round & fog in valleys to
N + NE in early morning. Lunar Coronae at mid

June 16th

Mist till 10 hrs cloud or overcast since
and air slightly dry

June 17th

Mist with showers of rain till 10 hrs
Clear and sky almost cloudless since
Temp lower and falling on the whole
all day. Moderate SSE winds till 6th
veering to W + NW since light in force

1900

252

June 18th

Clear & sky slightly cloudy till 8 hrs
fog or overcast sky since. Slight showers
of rain at 15 & 16 hrs

June 19th

Mist with heavy showers of rain all day

June 20th

Short sunny intervals 12 & 16 hrs almost continuous
mist with slight showers of drizzle during the day
Earth currents on Telephone in forenoon and again
in the evening

June 21st

Summit clear from 9 hrs but sky almost
overcast. Air slightly dry after 11 hrs

June 22nd

Temperature low and fairly steady (35° to 40°)
Sky very cloudy till 4 hrs but sky almost cloudless
after 17 hrs. Fog all round all day on which Glaciers
and fogbows were seen at 4 hrs and at 19 hrs
Air dry at times

June 23rd

Very fine and clear all day. Fog in
valleys all morning till 9 hrs to N. E. & S. E. No fog
below after 11 hrs. Passing showers all afternoon
to N. E. & S. E. Temperature low in early morning
but rising quickly during the day (34° 9 to 44° 0)
Hour frost on observatory roof at 2 hrs

Anemometer 2.3.7.8.10

Buchanan Lineman 16.

Barometer 4.

Aurota 7.

Charge of Staff 1.3.4.5.6. 37.40.48. 52.

Coronas 2.3.8.9.10.14.17 48.

Chicago

Dust 4.5.

45

Fog bows. 23.9

Glazed Frost. 2.9⁴⁴₄₉.50.

Halo { Lunar 3.8.17
Solar 3.5.8.11,

E
F
G
H
J
K
L
M

macdonaldi 16.39.

Observations late 3.6, ^{42.43.} 14. ~~44~~ 49

Photographs 3.5.

S
M
N
O
P
Q
R
S
T

Visibility 3.

Weasel 10.49.