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Ben Nevis Observatory Log Book

Vol 7

June 24th

Clear and air dry till 4 hrs. Mist since with heavy showers of rain. Colours of foreglow very fine at 2 hrs

June 25th

Summit clear at times at 1 + 2 hrs. Mist with slight showers since. Temp low all day (32.8 to 38.1)

June 26th

Mist all day with slight showers between 6 + 8 hrs

June 27th

Fog off and on summit all day and sky apparently almost cloudless. Light airs chiefly N + E and calm all day. Fog bows and glories seen at 4.5 + 7 hrs and a Solar Halo at 3^h 45^{min}

June 28th

Summit clear almost all day but sky overcast or nearly so. Fog all round + passing at times during the day. Air dry all day the lowest humidity being 84 at 16 + 20 hrs

June 29th

Mist all day with rain except at 1 + 8 hrs when summit was clear but sky overcast

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June 30th

Temperature very low all day (36° to 39°)
 Mist all day with heavy showers of rain.
 St Elmo's Fire heard at 1 hr on kitchen chimney
 and roof of tower

July 1st

Mist all day with showers of drizzle after
 19 hrs. Glories & Fogbows seen between 11 & 12 hrs

July 2nd

Summit clearing at times for a few minutes
 in afternoon. Occasional showers of drizzle
 in forenoon and rain in the evening
 A very heavy shower of hail fell between
 $18^{\text{th}} 5^{\text{m}}$ and $18^{\text{th}} 22^{\text{m}}$ the amount during that
 time being 0.166 only 0.011 falling during the
 rest of the hour. The hail was pretty large
 in size and conical in shape

July 3rd

Almost continuous mist and drizzle
 all day. Rainbow seen at $12^{\text{th}} 55^{\text{m}}$

July 4th

Fog & mist almost all day, clearing occas-
 -ionally for short periods in forenoon
 Slight showers of drizzle after 17 hrs

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July 5th

3

Mist all day with drizzling rain

July 6th

Temperature low all day and fairly steady (36.9 to 31.9). Showers of rain & sleet during the day

July 7th

Summit clear since 11 hrs but overcast or almost so. Air slightly dry all afternoon. Temp - low and fairly steady (30.4 to 36.2)

July 8th

Sky cloudy till 5 hrs with Ci & Ci-Sk and moving rapidly from SW. Very gloomy all round but fog on hills and in valleys to SE & S. Continuous mist since 8 hrs with drizzling rain. Temp - rising all day and air slightly dry at times in early morn

July 9th

Continuous mist and rain all day
Temp much higher today & steady (42.2 to 44.2)

July 10th

Almost cloudless sky since 8 hrs. Fog below all round in forenoon, but breaking up in afternoon, no fog below after 17 hrs. Temp. high all day and air dry from 9 hrs, lowest humidity 46 at 20 hrs. Slight drizzle in early morning
Observation at 18 hrs taken 3 minutes late
New Max B.B. N° put out at 5 hrs

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July 11th

4

Fog came on after 2 hrs, but clear again after 13 hrs and air slightly dry. Sky almost overcast and a considerable amount of fog around close to summit, which was continually pouring over hilltops in the evening. Mist and slight rain at midnight

July 12th

Summit clear at times till 19 hrs almost cloudless thereafter. Heavy showers of rain in forenoon

July 13th

Hilltop clear almost all day, but sky very cloudy. In early morning sky was half covered with Cirro-Str and moving moderately rapid from SW till 3 hrs and at 5 hrs from the SSE. Fog all round below to about 2500 ft till 6 hrs, then breaking up and finally disappearing during forenoon. A Lunar Halo seen at 1 hr and the shadow of Ben Nevis at 4 hrs

July 14th

Mist all day with occasional heavy showers of rain

July 15th

Summit clear at 4 hrs, the mist having sunk below hilltop and a leaning sky almost cloudless till 8 hrs, except for a little Cirro-Str above horizon to N very cloudy thereafter. Mist came on again after 20 hrs with showers of drizzling rain. Flories and shadow of Ben seen at 4 hrs

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July 16th

Mist almost all day. Clear occasionally between 8 & 11 hrs with short blinks of sunshine. Slight showers of rain in early morning and again in the evening. Temp fairly high & steady all day. Barometer falling rather quickly last night and till 3 hrs today somewhat unsteady during the day but rising decidedly in the evening. Moderate SE winds till 8 hrs veering to SW. W. and N. to night light in force

July 17th

Summit clear and 2 mins sunshine recorded about 9^h 30^m. Showers of rain till 6 hrs and again after 14 hrs. Temp rising all day

July 18th

High Temperature with mist and rain all day

July 19th

Mist with heavy rain till 16 hrs. Clear and sky almost cloudless till 22 hrs. Fog again since

July 20th

Mist or fog all day with slight drizzle in forenoon. Light to moderate SE winds all day

July 21st

Strong SE to ESE wind blowing during the day at times reaching gale force falling calm at 22^h then light W to breezes since. Mist till

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-8 hrs with occasional slight showers of drizzle clear since but sky pretty cloudy in overcast haze and fog in valleys. Passing showers to E at 10 hrs

July 22nd

Mist or cloudy sky all day. Drizzling rain after 18 hrs. Temp high and fairly steady. Air dry from 7 to 18 hrs

July 23rd

Summit clear from 6 to 8 hrs inclusive but sky overcast. Air pretty dry at 7 hrs the humidity being 53. Slight drizzle till 5 hrs but heavy showers all afternoon. Today Mr W^m Black came up to act as observer and G. Cameron went down.

July 24th

Mist almost all day with short sunny periods in forenoon. Heavy showers of rain till 8 hrs and again after 16 hrs. St Elmo's fire heard at 21 hrs

July 25th

Mist with heavy drizzle all day. Temperature high (41.5 to 48.9). Light winds chiefly SW and Calm

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July 26th

Sun gleaming at 12 & 13 hrs. Clear and sky cloudless at 23 hrs but mist all round and passing. Occasional slight slight showers of rain in the forenoon. Temp steady till 21 hrs between 40° & 42° falling thereafter

July 27th

Summit clear since 3 hrs and sky cloudless or nearly so till 10 hrs. Overcast since fog in valleys all day and slight haze in distance to S in the afternoon. Air slightly dry from 8 to 20 hrs

July 28th

Clear but sky overcast at 1 hrs mist since with heavy showers of rain after 8 hrs strong SE to ESE wind all day reaching full force in the afternoon but moderating after 21 hrs

July 29th

Light SSE winds and Calm. Slight drizzle all afternoon

July 30th

Drizzle till noon fair thereafter

July 31st

Cloudy or overcast till 11 hrs and air dry. Mist since with heavy showers of rain. Fog in valleys during forenoon

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~~Aug 1st~~ August 1st

8

Moderate SW winds with showers of rain all day. Today Mr. W. Black went down & J. Lifflick came up

August 2nd

Wind SSW till 5 hrs veering to N + NE and mist all day with heavy showers of rain

August 3rd

Mist almost all day with slight rain in the afternoon. Messrs J. Miller & W. Rankin came up

August 4th

Summit clear and air dry from 13 to 17 hrs but cloudy or overcast & fog below rising at times and passing over hill top temp low all day being at or slightly below 32° from 1 to 6 hrs rising a little during the day but falling again in the evening

August 5th

Clear and very little cloud on day till 5 hrs mist twice. Slight rain after 20 hrs

August 6th

Mist or fog all day with occasional slight showers of drizzle during the day. Today Mr. Anderson came up to take duty as observer

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August 7th

9

Mr Miller went down today.

Mist or fog all day. Slight clearing at 15 hours
Mild all day. Light showers of rain towards
night. Moderate wind mainly from the north all
day.

August 8th

Mist or fog till 6 a.m. Fair cloudy weather
since. Air slightly dry since 10 hours. Wind
northerly till 10 hours southerly since. Drizzle between
5 and 6 hours. Lunar corona visible from 8 o'clock
till midnight

August 9th

Fog or mist till 9 a.m.; cumulus clouds alternating
with fog or mist since. Winds mostly south easterly
and varying from 0 to 4. Haze from 9 hours till
14 hours. Barometer falling from 1 hour till 19
hours and rising thereafter till midnight. Mild all
day and no rain fell.

August 10

Barometer rising all day till midnight
when it began to fall. Mild all day
temperature ranging from 36 to 42 degrees.
Light variable breezes. Lunar corona visible
at 11 P.M. Summit covered with fog during
the greater part of the day.

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August 11th

10

Today Mr Wm Rankin went down the Ben
 Temperature fairly high all day ranging from 37° to 46° .
 Air dry from 2 A.M. till 7 A.M. Wind north
 westerly in the morning, veering round to south
 westerly during the day, returning to the N.W.
 towards midnight. Mist or fog from 8 hours
 onwards. Rain began to fall at 13 hours and up
 to ~~midnight~~ 1.35 inches had fallen.

August 12th

Barometer rising all day with a few
 oscillations. Temperature rising till 11 A.M.
 falling thereafter till midnight - range 48.8 to
 41.0 . Mist all day and heavy rainfall
 from one A.M. till 3 P.M.

Wind N.W. in the morning, passing round
 to N. & N.E. during the early hours and
 coming from a S.W. by direction during the
 afternoon and evening. Mr W. Rankin returned.

August 13th

Mist or fog all day with occasional
 drizzling rain. Temperature fairly high all
 day (40° to 46°). Sun shone for a few minutes
 at 14, 15, & 16 hours. Winds light and mainly
 westerly

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August 14.

11

We enjoyed splendid weather today. The temperature was high all day (range from 44° to 55°). Fog or mist until between 3 and 4 in the morning after which the sky cleared. Clouds (cum, cir-str, cir-cum. and cir.) from 4 hours till 15 hours after which the sky became cloudless. Fog below from 4 hours onward. Hazy from 7 hours. Lunar corona seen from 22 hours till midnight. Light airs mainly westerly.

August 15

This was also a very fine day. The temperature was high all day and reached 63° that being the highest recorded this year.

The sky was cloudless all day. Thick haze all day. Moderate air mainly from the S. E. Barometer falling slightly. Lunar corona seen at 11 and 12 P. M. Sunshine $\frac{95}{100}$

August 16

Barometer fairly steady but falling towards midnight. Temperature high (Range 47.9° to 61.8°). Light southerly or southeasterly breezes all day. Fog occasionally but clear for the most part. Very hazy all day. Lunar corona seen at 1 a. m.

August 17th

Barometer fairly steady all day. Temperature high (range 41.8 to 53.3). Light winds mainly from the south. Mist or fog most of the day with brief intervals of cloudy weather; slight showers of rain.

August 18th

Barometer fluctuating. Air dry most of the day. Wind light. Mist or fog occasionally but mostly clear with cumulus. Glory seen at 5 hours.

Today Mr A Rankin, and Miss Buchan visited the Observatory and Mr Wm Gentle came up to act as volunteer observer

August 19th

Mist or fog most of the day with intervals of cloudy weather.

August 20th

Today Messrs A. & W. Rankin and Miss Buchan left the Summit. Mist or fog all day.

August 21st

Mist or fog with cumulus at 22 hrs.

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August 22nd

mist all day and almost continuous rain

August 23rd

Mist most of the day. Thunder was heard today and the telephone showed the presence of earth currents but the severe thunderstorm experienced in some parts passed below the summit of the Ben.

August 24th

Clear sunny weather all day with thick haze

August 25th

Clear sunny weather most of the day with detached fog around. Fog bow seen at 6.45 P.M. (too irregular to measure)

August 26th

Sunny weather most of the day. Temperature low, the minimum recording 4 degrees of frost. Hoar frost and fog crystals in the morning. The lowest hourly reading was 28.7° at 5 a.m. Meteor seen at 23 hrs.

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14

August 27

The temperature was low today, ranging from 32.0° at 8 hours to 39.7° at 18 hours. Fog till 10 hours.

August 28th

Fog most of the day. Glory at 7 hours: patch of yellowish white light round head followed by greenish blue passing into yellow and pinkish red. Radius from centre to red $30^{\circ} 24'$ (per Stephanome.)

August 29th

Fog till 5 hours, cloudy overcast weather with thick haze since.

August 30th

Cloudy weather most of the day with 34% sunshine. Hazy all day.

August 31st

Mist all day with considerable rain (2.926 ins.)

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September 1st

15

Mist on summit all day and considerable rain (6.22 in.)

Sept 2nd

Mist on summit till 13 hrs, almost cloudless thereafter. Temperature was below freezing point from 5 to 9 a.m. Hazy after 14 hrs. Slight showers. Air very dry after 21 hrs (Humidity = 50-37%)

Sept 3rd

Almost cloudless till 11 hrs, fog or mist thereafter. Rain from 20 hrs to midnight.

Sept 4th

Mist on summit all day with rain.

Sept 5th

Mist on summit all day and almost two inches of rain. Winds variable.

Sept 6th

Mist on summit all day with considerable rainfall in the forenoon. Clear at 24 hrs with cumulus clouds.

Sept 7th

Mist most of the day with rain up till 15 hrs. Began to clear at 17 hours and at 23 and 24 hrs the sky was quite cloudless.

Sun or Corona seen at 22 hrs, radius from center to sea margin $2^{\circ} 37'$. A Fog Boat was seen at the same time but no measurement of the latter was obtained.

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Sept 8th

16

At 1 a.m. the sky was cloudless but fog lay in the valleys below and rapidly rose and covered the summit for the rest of the day with slight intervals of clearing. Heavy and solar fog was seen at 6 hours but they were too fleeting to measure. 1 or 2 slight showers of rain.

Sept 9th

Mist or fog all day with passing showers in the early morning and slight clearing at intervals. To day the maximum thermometer No 117293 registered a temperature 4.5° higher than any of the hourly readings. For explanation of this abnormal an air bubble was found in the column of mercury the size of which was about equal to a degree space. So it was decided to apply a correction of -1° to the reading of this thermometer in order to get an approximately accurate maximum reading.

Sept 10th

Mist all day with intervals of clearing and showers of rain especially in the early morning. 7% of sunshine recorded.

Sept 11th

Clear sunny weather most of the day. Wind light and ~~northerly at first~~, westerly after and rising at night to about 40 miles an hour.

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September 11th

17

Clear sunny weather most of the day. Wind northerly at first and light in force but westerly after 12 hours and rising at ~~my~~ night to about 40 miles an hour. A number of lunar ^{coronae} ~~halos~~ and glories seen today. Lunar ^{coronae} Halos:-

At 2 hours too fleeting to measure.

At 3 hours - radius from centre to red $4^{\circ} 19'$. At times a second larger ^{corona} ~~halo~~ seen of which however only an approximate measurement was got radius $7^{\circ} 46'$.

At 22 hours fleeting lunar ^{corona} ~~halo~~ and fog bow seen.

Glories:- at 8 hours double glory - outer shewed in succession inwards red yellow green blue. radius from centre to circumference $6^{\circ} 51'$. inner - red and yellow distinct, green and blue doubtful. yellowish white patch round head; radius to red $2^{\circ} 24'$.

Double glory at 14 hours. The cross bar of Stephenson was slack so that only rough measurements were obtained. Colours in succession, red yellow, (green, blue) radius to outer red, $5^{\circ} 57'$; radius to inner red, $3^{\circ} 44'$; radius to yellow, $2^{\circ} 42'$.

All measurements taken from the centre to periphery of the colours.

Fog lay below all day and at times rose and enveloped the summit

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Sept 12

18

Fine sunny weather all day and the air very dry (humidity 38-57%). Fog lay below all day but never covered the summit. Sun at halo at 2 a.m. 85% of sunshine recorded.

Sept 13th

Fine weather today with 89% of sunshine. air very dry (Humidity 29-59%) Almost cloudless but hazy and fog in the valleys below. Shadow of Ben seen at 5 hours

Sept 14th

Sunny cloudless weather today but hazy and fog on Rannoch Moor &c. Earth shadow and shadow of Ben Nevis at 6 hours.

Sept 15th

Cloudless today but very thick haze. Today Mr Charles Clark came to act as cook at the observatory and Mr H. G. Lawrie the lake cook went down the Ben.

Sept 16

Fog at times today but mainly clear sunny weather. Shadow of Ben at 6 hours and glories at 8.40.

Today Mr R. C. Marshall arrived at the observatory to take duty as a volunteer and Mr Wm Gentle went down.

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Sept 17th

19

Clear weather in the morning, fog since.

Sept 18th

Mist all day today and showers of rain

Sept 19th

Mist all day and slight showers of rain. Temperature pretty low (34° - 38°) and a slight fall of hail in the early mornings.

Sept 20th

Mist all day and rain after 10 hours. Slight clearing in the early morning.

Sept 21st

Mist all day and showers of rain in the afternoon. Slight clearing in the morning.

Sept 22nd

Mist all day with slight showers of rain. Slight clearing at times.

Sept 23rd

Mist all day and showers of rain in the afternoon. The Barometer fell very rapidly towards night and the wind rose to a moderate gale from the S. W.

Sept 1900

Septth 24th

20

Mist or fog all day. Barometer falling
likewise temperature - ice crystals forming
Slight showers of sleet and hail.
Mr W. Rankin arrived to act as "observer"

Septth 25th

Temp. low & steady. Snow or sleet falling
all day - variable winds. Mr Charles
Anderson went down the Pen to-day.

Septth 26th

Temp. low. Strong gusty winds with
drifting snow. Mist or fog most of the
day.

Septth 27th

Barometer rising - slight westerly winds
& showers of rain. Mist all day.

Sept 28th

Fog all day except at 5 hrs when summit
was clear but sky overcast. Occasional
showers of rain in the afternoon

Sept 29th

Temperature rising all day range 34.8
to 42.3. SW winds strong and squally in the
evening. Heavy rain all day.
Today Mr. J. Miller came up and R. C.
Marshall went down.

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September 30th

21

Temp fell rather quickly till 9 hrs
from 42.4 to 30.2 but pretty steady during
the rest of the day. Heavy showers of rain
sleet & snow during the day

October 1st

Fog almost all day but cleared
away about 10 hrs and at midnight the fog
cleared away and the sky was cloudy
faintly falling drizzle in afternoon and evening

October 2nd

Thin fog or haze till 11 hrs when
clouds in clouds since 11 hrs till 11 hrs
19 to 23 hrs. Snow falls at 20 hrs
2.64 hours of snowfall recorded today

October 3rd

Snowfall 11 hrs. 11 hrs. 11 hrs. 11 hrs.
7 hrs fog or haze since 11 hrs till 11 hrs
12 hrs when it began to snow in afternoon
10 hrs. 11 hrs. 11 hrs. 11 hrs. 11 hrs.
The day when the snow was recorded
11 hrs. 11 hrs. 11 hrs. 11 hrs. 11 hrs.

October 4th

11 hrs. 11 hrs. 11 hrs. 11 hrs. 11 hrs.
11 hrs. 11 hrs. 11 hrs. 11 hrs. 11 hrs.
11 hrs. 11 hrs. 11 hrs. 11 hrs. 11 hrs.

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October 1st

Temperature very steady all day range 31.8 - 27.8. Fog all day with showers of snow and hail. Fog crystals forming at 8 hrs. Today Mr L. Macdonnell came up & Mr J. Miller went down.

October 2nd

Fog or mist all day but summit was clear at 15 hours and at midnight the fog cleared away and the sky was cloudless. $\frac{1}{2}$ inch of snow fell. Mr Macdonnell went down, Mr Affleck came up.

October 3rd

Thin fog or scud till 18 hrs, cirrus clouds or cloudless since. Sun at Corona from 19 to 23 hrs. Sun at halo at 20 and 21 hrs. 2.64 hours of sunshine recorded today.

October 4th

Summit clear & sky cloudless till 3 hrs, fog or mist since. Wind rose till 13 hrs when it reached a velocity of about 70 miles but fell thereafter. Owing to the strong wind the maximum and minimum thermometer readings were spoiled.

Oct 5.

Fog or mist all day with occasional showers of snow & hail.

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23

October 6th

Fog or mist all day with showers of snow & hail. Sun at corona at 20 hrs. ~~Barometer pumping~~. Mr J. Affleck went down & Mr L. Macdonnell came up.

Oct. 7th

Temperature fairly high today range from 30.0° to 44.0° Fog or mist with heavy showers of rain. Amount = 3.665 inches.

Barometer pumping at 11, 12, 13, 14, 15 hrs. Between 12 and 13 hrs 1.253 ins of rain fell - probably the record

Oct. 8th

Temperature high today (36.5° - 43.2°) Mist or fog all day with showers of rain or drizzle.

Oct. 9th

Temperature fairly high (31.9° - 39.8°). Fog or mist till 20 hrs, clear cloudy weather with cum, cum-s and cir. Since. Occasional showers of rain & drizzle.

Oct. 10th

Temperature lower today (28.5° - 31.8°). Clear till 16 hrs say am at 11 hrs fog or mist during the rest of the day. Clouds at 11th hour. Mr J. Affleck came up & Mr L. Macdonnell went down.

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October 11th

Fog or mist all day with showers of snow, sleet and rain.

Oct 12th

Barometer fell rapidly towards midnight. Temp. 26.8° - 31.0° . Fog all day with showers of snow & hail. Drift all most of the day.

Oct 13.

Barometer falling till 12 hrs rising thereafter. Temperature low 21.4° - 31.9° . Fog all day with showers of snow. Drift nearly all day.

Oct 14

Temperature low today (19.9° - 25.1°)
Fog all day with showers of snow.
Depth of snow 15 inches at garage

Oct 15.

Temperature fairly low (19.4° - 28.0°)
Fog most of the day and occasional showers of snow but clear & bright at 3, 22, 23 & 24 hrs and 48 hrs of sunshine recorded. Box changed; Thermometers Nos 535541 & 42 taken in & Nos 1392449, & 50 put out at 24 hrs

1900. Oct 16th

25

Clear sunny weather with fog on horizon till 15 hrs. This was succeeded by cum clouds which gave place at 19 hrs to mist. Slight fall of snow at 19 & 20 hrs. 6.96 hrs of sunshine recorded today. Snow disappearing - depth today = 14 inches.

Oct. 17th

Mist most of the day with drizzling rain at times. Temperature fairly high (33° - 38°) Depth of snow 9 inches

Oct 18th

Mist or fog most of the day Temp 31° - 35. Depth of snow 6 inches.

Oct 19th

Barometer pretty steady all day Temp. 28.2° - 33°. Clear cloudless weather till 13 hours fog thereafter until 21 hrs

Oct 20th

Barometer very steady all day. Temp 25° - 31°. Fog most of the day but clear at times and 2 hours of sunshine recorded.

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October 21st

Summit clear most of the day. Depth of snow 5 inches.

October 22nd

Summit clear till 7 hours mist or fog since. Temperature fairly high (31.0° - 39.2°) Dry all in afternoon.

October 23rd

Mist all day and drizzling rain. Temperature 39.0° - 43.0° Snow all disappeared today.

Oct. 24th

Mist all day with showers of rain.

Oct 25th

Mist or fog all day and considerable fall of snow. Temperature lower today (22.8° - 32.0°). Mr C. Anderson came up & Mr J. Applek went down. Milcrage visited the Ben.

October 26th

Temperature fairly low (21.0° - 26.0°). Fog all day and slight fall of snow. Depth of snow = 6 inches.

October 27th

Fog all day and a slight fall of snow in forenoon and at night. Clearing at 11 hrs.

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October 28th

Fog all day on summit and slight snowfall in forenoon

October 29th

Fog or mist all day with showers of snow sleet and hail.

October 30th

Fog till 16 hours, cloudless or cirrus clouds since. Sun and halo seen at 19 & 20 hrs. Today thermometers Nos 535541 (dry) & 535542 (wet) were put out, & Nos 1392449 (dry) & 1392450 (wet) were taken in at 17 hours

October 31st

Clear today in the early morning. Mist and rain set in at 6 hours, and the temperature rising as thaw followed which continued during the day. Maximum temperature recorded today was 40.00. Strong squally winds from the S.E. prevailed all day.

and at night

1900 November 1st

28

Temperature continued high today (range 37°-45°) and practically all the snow disappeared off the summit. Mist or fog all day with slight clearing at times. Slight shower of rain in early morning.

November 2nd

Temperature fairly high and very steady all day. Mist all day and slight drizzle in evening.

Nov. 3rd

Mist and fairly high Temperature all day but at midnight the temperature fell to the freezing point and at the same time the mist cleared off.

To-day a white ptarmigan was seen near the Hutels.

Nov. 4th

Clear sunny weather today (about 4 hours of sunshine being recorded) till 16 hours when the fog which lay below all day rose and covered the summit. Lowest humidity 48%.

Thermometer box changed at 9 hours - Thermometers No 535541 + 535542 being taken in and No 1392449 + 1392450 being put out. Today a few snow buntings were seen at 8 a.m. flying eastwards.

Nov 5th

Mist and fog on summit all day with slight clearing at 15 hours Temp very steady all day (Range 31°-34°2)

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Nov. 6th

29

Mist all day and showers of rain. Sleet at 23 and 24 hours. Temperature above freezing point all day. Two strangers visited the Observatory

Nov. 7th

Temperature was below freezing point after 3 hours. Fog all day but clear at midnight. Lunar corona at 22 hours - radius of red (outside) = $2^{\circ} 34'$. At times a second larger corona was seen also with the red outside but no measurement of latter was obtained. At 23 hours a double corona was seen - colours arranged as follows:-

Red - $4^{\circ} 36'$
 Green
 Red - $2^{\circ} 55'$
 Orange $2^{\circ} 20'$
 Green
 Blue
 Violet
 White $1^{\circ} 36'$

The coronae were formed on fog. Measurement taken to outside of colours.

Nov. 8th

Temperature above freezing point all hrs. Clear at 1 hr and at 7 hrs mist or fog during the rest of the day with showers of rain hail and snow. A lunar corona and halo were seen at 2 hrs but no measurements were got. Earth currents about midnight.

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30

Nov 9th

Temperature fairly low and steady today
range $21^{\circ}1 - 26^{\circ}3$. Fog all day with showers of snow
and hail. Owing to drift the measurement of the
snow fall is rather doubtful. Depth of snow 5 inches

Nov 10th

Barometer rising rapidly today after
6 hours. Temperature pretty low and steady
($22^{\circ}0 - 26^{\circ}0$). Fog all day with clearing at 14
hours. A considerable amount of snow fell
reaching at 15 hrs a depth of 7 inches. Drift
most of the day. Thermometer box changed
at 11 hours No 1392449, - 50 being taken in
and No 535541, - 2 being put on ladder
height of bulb above snow = 53 inches.

Nov 11th

Fog all day and a good deal
of snow fell but again drift rendered
the measurement doubtful. Temperature
low and very steady - range $20^{\circ}0 - 23^{\circ}5$.
Today Mr & Mrs G. Abraham, Keswick, visited
the Observatory and reported the ascent rather
difficult owing to the soft snow. Summit reached
at 1 hr.

Nov 12th

Fog and mist on summit today.
Temperature rather low during the day but
began to rise at 16 hrs and rose from $24^{\circ}1$ to
 $31^{\circ}7$ by midnight. Snow fell during the day
but turned to rain at 17 hrs. Towards midnight
the wind veered from S.E. to S.W. Depth of snow
= 13 inches. Silver thaw at 17, 19 & 20 hrs.

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Nov. 13th

31

Fog or mist all day with slight clearing at midnight. Showers of rain, snow and hail during the day. Temperature rather higher today - range 27°F to 31°F . Silver thaw at 18 and 23 hrs.

Nov 14th

Fog or mist today till 1 P.M. when it cleared away, leaving a cloudless sky. Fog lay below and hung about the summit all day so that the atmosphere was saturated with moisture. 8% of saturation was recorded. The fog rose and began cover the summit at 19 hrs. A fog bow was seen at 14 and 15 hrs.

To day the thermometer box was changed, at 13 hrs No 535541, ---42, being taken in and No 1392449, ---50 put out. Height of bulbo above snow = 44 inches.

Barometer began to fall rapidly towards midnight, the wind rising at the same time to a fresh breeze from the S.E. Silver thaw at 5 hrs.

Nov 15th

Fog till 2.0 hrs, clear thereafter. Showers of hail and snow in the morning. At 23 hrs the thermometers were changed No 1392449 - 50 being taken in & No 535541 - 2 put out

Barometer fell very rapidly till 5 hrs while the wind rose to a gale of about 60 miles an hour from the S.E.

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Nov. 16th

32

Clear till 3 hrs today, fog since. The wind blew from the N most of the day and from 9 to 15 hrs had a velocity of from 30 to 60 miles per hour. Today Messrs D. Rankin and H. Mackenzie ascended the Ben after a stiff climb, with letters and winter boots.

Nov. 17th

Fog most of the day today but clear at times and 146 hours of sunshine recorded. Barometer pumping at 4 hrs. Thermometer changed at 12 hours No 1392449 --- 50 being put out & No 535541 --- 2 taken in. Three tourists visited the Observatory today

Nov. 18th

Temperature rose considerably above the freezing point today (highest being 36° F). Cirrus or cloudless all day & 85% of sunshine recorded. Thermometers changed at 12 hrs No 1392449 --- 50 being taken in and No 535541 --- 2 put out. Today a raven was seen at NE cliff.

Nov. 19th

Summit clear all day with fog below. Temperature below freezing point all day. Earth's shadow seen at 16 hrs.

Nov. 20th

Clear cloudy weather till 9 hours fog since

1900

33

Nov 21st

Fog till 21 hrs, clear hereafter.

Nov 22nd

Clear till 10 hrs, fog since: 52 mins
 sunshine recorded. At 3 hours changed the
 thermometers taking in Nos 655541, — 2, putting out
 Nos 1392449, — 50. Mr Wm Rankin became
 indisposed and went down the Ben in the
 afternoon, Mr S. Macdonnell coming up to
 take his place as observer. Today a tourist
 ascended the Ben.

Nov. 23rd

Fog or mist all day with slight
 fall of snow in early morning. Temperature
 rather higher today (29°9 - 31°8). Raven seen
 today near the bucket stage.

Nov. 24th

Fog or mist all day with showers
 of snow after 21 hrs. Depth of snow 7 inches
 15 minutes running

Nov 25th

Fog or mist with occasional
 showers of snow during the day.

Nov. 26th

Fog or mist with showers of sleet
 and snow. Wind E or ESE all day and
 at 18 hrs rose with a falling barometer to
 a moderate gale but fell again towards
 midnight.

1900

Nov. 27th

34

Fog and mist with showers of snow till 10 A.M. The fog cleared occasionally in the afternoon and after 6 P.M. there were dry readings every hour. Lowest humidity 43 at 20 hours. The thermometer box was changed at 18 hours, thermometers no 1392449, — 50 being taken in and No 535541, — 2 put out. Height of bulb above snow = 42 inches. Depth of snow today = 19 ins.

Nov. 28th

Clear till 6 hrs today - fog or mist thereafter with showers of snow. Strong squally SE winds all day and at 17 hrs it blew a gale which continued till midnight. The tower thermometer was used at 17 hrs as the observer was unable to read the outside thermometers owing to the drift. A correction of -1° was applied. Owing to drift the measurement of snowfall is doubtful.

Barometer pumping strongly in the evening. Clear fog crystals forming rapidly today.

29th Nov.

Fog all day with slight snowfall in early morning. Strong squally SE winds at times blowing a gale.

Barometer pumping somewhat in the morning and forenoon. Clear fog crystals forming

1900 Nov. 30th

Temperature very steady today - range $24^{\circ}6 - 27^{\circ}3$. Fog all day with slight clearing in the early morning. Thermometer box changed at 4 hrs Nos 535541 (Dry) & 535542 (Wet) being taken in and 1392449 (Dry) & 1392450 (Wet) put out. The wind still continues to blow from an Ely or SEly direction but the force is considerably abated today. Clear fog crystals forming.

8 strangers visited the Observatory during November.

1900

Decr. 1st

36

Fog or mist all day with showers of snow
Wind still SE^y and light in force.

Decr 2nd

Fog or mist with occasional light
showers of snow. Temperature very steady
today - range 26°5 - 28°1.

Decr 3rd

Fog till 14 hrs, clear with foggy
intervals since. Light variable air, chiefly
SE prevailed. Thermometer box changed
at 15 hrs, No 535541 (Dry), & 535542 (Wet)
being put out. Luman corona at 23 hrs but
too fleeting to measure. Luman halo at 24 hrs,
radius 22° 56'.

Decr 4th

Clear weather today with cumulus
and cirrus types and about 2 hrs sunshine,
but there were foggy intervals in the after-
noon and fog from 20 hrs till midnight.

Luman corona at one hour, too faint to
measure. A very distinct luman halo was
seen at the same hour the radius being
23°, 27'. Another luman halo was seen at
21 & 22 hrs but it was not distinct enough
to measure.

Today Mr Hugh Mackenzie came up,
bringing letters, to take down the report
and the daily and monthly sheets for
November.

1900 Dec 5th

Temperature rather higher today - range $25.0 - 31.5$. Fog or mist all day with showers of snow in the evening.

Today in attempting to remove the fog crystals from the Black Bull No 64 on the stand in order to bring it inside the instrument was broken.

Dec 6th

Temperature very steady today - range $24.2 - 25.3$. Fog or mist all day and almost continuous snow.

Dec 7th

Clear at 8, 9 & 10 a.m. fog or mist the rest of the day. Snow in early morning, silver thaw at 19, 20 & 21 hrs after which the temperature passed the freezing point and reached 34.0 at midnight, rain continuing to fall. Temperature range today 22.0 to 34.0 .

Thermometer was changed at 8 hrs Nos 1392449 (Dry) & 1392450 (Wet) being put out.

Dec 8th

Temperature continued high to-day but fell to the freezing point at 21 hrs. range $32.0 - 40.0$. Mist or fog all day and heavy rain till 20 hrs, a little snow falling thereafter. Rainfall for the day = 5.413

1900 Dec 8th ctd.

38

inches, being the largest daily fall for Dec. up to date (from 1885). Strong squally winds all day, mainly S.W. and at times rising to gale-force. Barometer pumping at times.

Dec 9th

Mist or fog all day with showers of snow and hail. Squally S.W. and W. winds during the day, veering to N.W. and backing to S.W. at midnight. Fog crystals destroyed by the recent thaw rapidly reforming today.

Dec 10th

Temperature higher today rising to 32° at midnight - range from 26° at 8 hrs.

Fog or mist all day with snow in the morning and heavy rain after 22 hrs. Towards midnight the wind rose with a falling barometer to a moderate gale at times from the S.S.W. while the temperature began at the same time to rise and rain came on.

Barometer pumping wildly in the evening

Dec 11th

Temperature continues high - range 31° to 38° - but falling at midnight. Mist all day and heavy rain. Squally winds varying from N.W. to S.S.W.

Barometer pumping slightly at times. Snow (depth 16 inches at 15 hrs) rapidly disappearing.

1900

Decr 12th

39

Temperature again high today but falling rapidly towards midnight - range, $36^{\circ}8 - 28^{\circ}8$. Mist or fog all day with heavy rain and snow after 22 hrs. Strong squally variable winds all day.

Barometer pumping at times. Lin ptarmigan seen flying over the Observatory today.

Dec 13th

Fog all day with showers of snow. Wind continues squally, veering from ESW to N. Measurement of snow all somewhat doubtful owing to drift.

Barometer pumping slightly, especially in the morning. Lightning and earth currents noted in early morning. Lunar corona at 4 hours - no measurement obtained.

Fog crystals were forming rapidly during the day.

The dry & wet thermometers at 4 hrs were read at 4-10 owing to observer's lamp being blown out.

Dec 14th

Temperature fairly high today ($27^{\circ}9 - 36^{\circ}8$)

Fog or mist all day with showers of snow in early morning and of rain from 5 to 15 hrs.

Dec 15th

Fog all day with showers of snow - measurement doubtful owing to drift. Earth currents in early morning & afternoon.

1900

40

Dec 15th - contd.

Barometer pumping at times especially in the afternoon and evening probably owing to the squally N by W winds.

Today Mr D. Rankin attempted to reach the summit with a horse but had to turn back at the plateau, leaving his load at the half-way hut.

Dec 16th

Temperature high today - range 28.8 - 35.8. Fog in early morning mist during the rest of the day with showers of rain. Wind continues to blow from the W in fitful gusts.

Dec 17th

Fog or mist all day with drizzling rain in early morning and evening, turning to snow at 22 hrs.

Dec 18th

Fog all day with occasional showers of snow.

Dec 19th

Fog all day with heavy showers of snow, - measurement somewhat doubtful owing to drift. Barometer fell rapidly towards midnight the wind rising simultaneously. Depth of snow at 15 hrs being an increase of 5 inches since yesterday.

1900 Dec 20th

41

Barometer falling rapidly all day showing a range of .847 inches from 24.819 in at 1 hr to 3.972 at 23 hrs, the latter being the lowest pressure recorded this year. Strong squally winds varying from SE+S to W, and at times reaching gale force. Mist or fog all day and about 1 1/2 inches of precipitation chiefly as rain. Glazed frost after 19 hrs; silver thaw at 23 hrs.

Barometer pumping all day.

Dec 21st

A brisk recovery of pressure today the barometer rising over an inch. Clear for a short time in the afternoon and 15 minutes of sunshine recorded. At 3 hrs the door of the Stevenson screen was frozen so hard that it had to be opened with a chisel; in consequence the temperature was not read till 3:12 - no correction applied.

x Dec 22nd

Fog all day with showers of snow. Silver thaw at midnight. Today Mr Lawrence Macdonnell went down the Ben.

Dec 23rd

Fog all day with slight clearing at 10 hrs. A few slight showers of snow. Feathery fog crystals forming to day.

1900

Dec^r 24th

42

Temperature high today, rising from 26° 7 at 1 hr to 37° at midnight. Fog or mist all day with showers of snow till 2 P.M. and rain thereafter.

Barometer pumping slightly in the afternoon and evening.

Dec 25th

Temperature continued high today but began to fall rapidly at 6 P.M. Range 39° to 28.2. Fog or mist all day with heavy showers of rain, snow after 19 hrs.

Barometer pumping till evening.

Dec^r 26th

Temperature fell today from 28° 3 at 1 hr to 24° 0 at midnight. Fog all day and showers of snow.

Dec 27th

Fog all day except at 2 hrs when the fog cleared off, leaving a cloudless sky. The thermometers were changed at 2:15, No 535541 — 2 being put out, but shortly thereafter fog covering the hills to the S drifted over the summit which remained covered during the rest of the day.

Feathery fog crystals forming rapidly today.

1900 Decr 28th

Fog all day with slight showers of snow. Strong ESE^y winds in the morning, at times blowing a gale. Fog crystals slightly dark in colour today.

Measurements of precipitation doubtful owing to the drift. Heavy wreaths of snow surrounding the Observatory, almost level with the roof. Depth of snow at snow post = 28 inches.

Dec 29th

This has been the clearest day we have enjoyed for a long time. The fog showed signs of lifting early in the morning but it was not till 4 P.M. that it finally cleared; Cumulus and cirrus types thereafter till midnight when fog set in again. 12 mins sunshine recorded today. Fleeting Lunar coronae at 17 hrs on Cir-Celon.

Thermometers changed at 14 hrs, Nos 1392449 & 1392450 being put out.

Today Mr Wm Bee, Edinburgh, arrived at the Ben to take duty as observer.

Dec 30th

Fog all day with slight showers of snow, the measurement of which is somewhat doubtful on account of the drift which was sometimes pretty heavy. At midnight the fog cleared away leaving a cloudless sky but persisted below in a thick bank

1900 Dec 31st

44

Fog all day with short clear intervals in the forenoon. Barometer began to fall rapidly in the evening, the wind rising to a slight gale from the SE. Lunar corona at 1 hr but too fleeting to measure. Feathery fog crystals forming.

Barometer pumping slightly in the evening

Today seven members of the Mountaineering Club from Dundee visited the Observatory.

Changed thermometers at 2.20 putting on No 535541; — 2.

Seven Strangers visited the Observatory during December.

1901 Jan 1st

Fog all day with showers of snow. Slight gale in early morning. Heavy drift in morning and forenoon, spoiling the measurement of precipitation somewhat.

Jan 2nd

Fog all day with showers of snow in the forenoon. Faint St Elmo's fire at 1 hour.

Jan 3rd

Fog, ^{and mist} with slight clearing about mid-day. Temperature rising to $31^{\circ} 8$ at midnight. Glaces were observed at 12 hrs. Clear mist crystals forming in the evening.

Jan 4th

Clear at 12, 13 and 14 hours today and about half an hour sunshine recorded. Glazed frost in the morning. Beautiful satiny fog crystals forming today pretty rapidly.

Changed thermometers at 13 hours putting out No 1392449 & 1392450.

Jan 5th

We enjoyed fine sunny weather today the fog clearing at 11 hrs leaving an almost cloudless sky. 4.7 hrs of sunshine being recorded. The shadow of Ben Nevis was seen at 15 hrs, the Earth's shadow at

1901

46

Jan 5th contd

16 hrs. Dark fog crystals forming in the morning and forenoon. Raven seen near the cliff flying towards Carn Dearg at 15 hrs.

Changed Thermometers at 11 hrs putting out nos 535541 & 535542 (wet)

Today Mr D. McLaren came up the Ben to bring down the monthly report and the daily and monthly sheets for December and stayed overnight at the Observatory.

Jan 6th

Clear till 7 hrs today but very hazy. Temperature rather lower today - range from 20.9 to 15.9.

Jan 7th

Fog all day with an occasional shower of snow. Strong S^WE and ESE wind at times blowing a gale all day.

Barometer pumping at times. Today Mr D. McLaren went down the Ben.

Jan 8th

Fog all day and slight snow falls. Strong E to SE winds at times blowing gale force but calming towards midnight.

Jan 9th

Clear with heavy cumulus clouds from 6 to 9 a.m. after which fog came on again but cleared off at 16 hrs leaving a cloudless sky thick fog however persisting below

1906

Jan 9th - contd.

47

Thermometers changed at 6 hrs, Nos 1392449 and 1392450 (wet) being put out. Again changed at 17 hrs, Nos 535541 & 535542 being put out. The Stevenson screen shifted up one step on the ladder. Height of Bulls above snow 52 inches. Today Mr. Duncan Rankin and David McLaren came up the Ben, bringing seed and some washing from the halfway hut.

Jan 10th

Clear with cumulus and cirrus types till 6th, when fog came on and continued for the rest of the day. Air very dry at 2 hours, the relative humidity being 28%.

Today Mr. Miller, accompanied by Mr. D. Rankin, came up the Ben.

Jan 11th

Summit clear at times during the forenoon with occasional sunny intervals. Light to moderate SE to ESE winds all day. Slight showers of snow in the evening.

Today Mr. C. Anderson went down to L.L.O.

Jan 12th

Moderate to strong SE to ESE winds all day. Slight showers of snow in the early morning.

Jan 13th

SE² winds all day; blowing a gale in forenoon but moderating in afternoon. Summit clear from 17 till 19 hrs but fog overcast. Slight showers of snow & rain in the evening. Temperature all day range 22.2 to 31.0

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Jan 14th

Mist with slight rain till 5 hrs: Summit clear but sky cloudy since. Haze all round below. Temperature high all day and air very dry at times; lowest humidity 34 at 18 hrs. Strong S to SE winds all day at times reaching gale force. Sunrise 8^h 41^m Sunset 16^h 17^m. Three Ravens seen over at North Cliff.

Thermometers changed only at 9^h 10^m N^o 2 dry
 wet 139 2449 put out
 50

Jan 15th

Temperature high and air dry the humidity ranging from 30 to 66. Sky slightly cloudy with Cir & Cir-S till 18 hrs cloudless since. Strong SE winds all day blowing a gale in the evening. Slight haze below all day. Earth shadow seen at 16 hrs.

Jan 16th

SE winds all day, blowing a gale till 17 hrs moderating in force thereafter. The average velocity of the wind for the 17 hrs was about 72 miles per hour. Sky cloudless and air dry till 5 hrs fog since but clearing at intervals during the forenoon. Very slight snow falling in the evening, the hourly amounts not being measurable. The Minimum for the Daily Weather Report tonight was taken from the hourly observations as the Minimum in Stevenson screen was reaching too low, probably shaken by the strong winds during the day.

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49

Jan 17th

Wind SE till 1 hr veering to S + SW since
somewhat squally in the afternoon. Heavy
showers of snow in the forenoon. Temp fairly
high and steady 31 to 27

Jan 18th

Fog all day with showers of snow since
6 hrs. Light Squally S² to W² which all day
accompanied with a good deal of turbulence.

Jan 19th

Sun gleaming at 11 hrs and fog lifting
at times thereafter for short intervals. Occasional
slight showers of snow during the day.

Jan 20th

Squally variable N² winds all day
Heavy showers of drizzle sleet hail + snow
Barometer pumping most of the day

Jan 21st

Temp rising till 15 hrs - 25.0 to 34.6 about steady
since. Occasional showers of snow till 9 hrs
heavy rain during the rest of the day
Nor NE winds till 3 hrs variable winds since
chiefly W² and squally. Barometer
pumping slightly all day

1901

50

Lang 22nd

Temp steady about 34.7 till 4 hrs falling till
20 hrs 21.4 rising a little since. Variable squally
winds all day. Chiefly W in forenoon and
N in afternoon. Day heavy rain and hail
till 11 hrs. Light showers of snow since
Barometer pumping slightly all day

Lang 23rd

Wind backing from N to W and SW. Fog all
day with occasional slight showers of snow
Today S. McLaren came up with the letters etc.

Lang 24th

Fog all day except at 9 hrs when Summit
was clear but sky overcast. A quick fall of
5° in temp occurred between 19 & 20 hrs; also
Barometer rose rapidly at the same time, but
had been falling previous to this, and wind
veered from SW to N. St Elms fire seen at
21 hrs. The snow which fell in the evening
was not the kind which usually accompanies
St Elms fire, but large flakes and moist.
Thermometers changed after the 9 hr observation
Nos 535541-42 put out. Height above
snow 43 inches

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Jan 25th

Temp & Bar low and falling all day
 Variable squally winds chiefly NW^{ly}.
 Fog with heavy showers of snow and
 considerable snow-drift all day.
Earth currents in Telephone at 17:15^h

Jan 26th

Barometer low but rising a little — till 10 hrs
 but falling rather quickly again since Temp
 low in the early morning but rising during
 the day showers of snow till 19 hrs. Silver thaw
 thereafter Variable squally wind all day
 chiefly N. & NE Barometer pumping till 9 hrs

Jan 27th

Will top clear from 9 till 12 hrs but sky
 overcast or almost so. Bar low and falling
 till till 13 hrs rising slowly since. Heavy showers
 of drizzle hail and snow during the day
 Variable squally N & NE winds moderating
 in force towards evening. Considerable
 snow drift during the forenoon. Bar
 pumping till 13 hrs

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52

Jan 28th

Clear and ^{Sunny} from 12 to 15 hrs but fog in valleys and at times rising up and passing over summit. Temperature low range 17.4 to 9.1. Heavy showers of snow in the morning. Variable squally winds chiefly N^W. — Thermometer not changed after the 13 hr observation N^o 139 2449 + 50 put out. Thermometer again changed after 17 hrs and N^o 5355 41 - 2 put out.

Jan 29th

Temperature somewhat higher today range 15.5 to 19.0. Fog all day with occasional showers of snow. Squally variable winds. Today Mr. Royds accompanied by D. MacLaren Guide arrived at observation.

Jan 30th

Summit clear for short periods in the forenoon. Heavy showers of snow during the day. Squally var winds chiefly N^W. St Elmo's fire seen at 2 hrs.

Jan 31

Barometer rising slowly. Thin fog at 14 hrs and clear to N. Showers of snow since 5 hrs. Squally variable winds all day chiefly NE^W.

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Feb 1st

53

Fog all day with slight showers of snow since 8 hrs. Light NE winds all day.

Feb 2nd

Thin fog during forenoon and sun gleaming at times. Summit clear and air dry after 16 hrs but sky overcast and fog on hills around fog on again at night. NE winds all day very squally in the early morning.

Barometer pumping till 8 hrs. Earth's shadow and shadow of Benkevis seen

Bar changed at 10¹⁵ Same thermometer in ice
Height above snow 57 inches

Feb 3rd

Sun gleaming almost all day and about 6 mins sunshine recorded at 11 hrs. Very slight snow falling till 6 hrs. Light N to NE winds all day
Today Mr Royds. R.N. left Observatory

Feb 4th

Fog all day with slight showers of snow in the forenoon and again after 23^{hrs}

Feb 5th

Very squally with winds chiefly NE all day with considerable drift. Large pieces of snow being blown up N cliff and flapping about hill tops all afternoon Temp low and steady (18.0 to 15.3) Slight showers of snow in the forenoon. The observation at 13 hrs was taken 10 minutes late. Barometer pumping all day

1901

54

February 6th

Fog off and on summit during the forenoon and 5 min sunshine recorded. Temp low in the early morning but rising during the day. Light var N^W winds. Bot changed at 3¹⁰^m by wet N^o 1392449 + 50 put out. Thermometers again changed and by wet N^o 535541 + 42 patent

February 7th

Fog all day with slight showers of snow in the forenoon. Today S. W. Laren came up with mails etc

February 8th

Sky cloudless or almost so; but fog all round below, at times rising up and passing over summit till 16 hrs fog since air very dry lowest humidity 40 at 15 hrs Fog bows and Coronae seen at 2.3 & 4 hrs and glories during the day. Bot changed at 2¹⁵^m by wet N^o 1392449 + 50 put out

Feb 9th

Sky cloudless but fog all round passing till 5 hrs, then fog on summit during the rest of the day and sun gleaming at times in the forenoon. Lunar coronae and fogbows seen at 2.3.4 & 5 hrs

1901

Feb 10th

55

Summit cleared after 3 hrs becoming sky cloudless till 8 hrs overcast or almost so till 15 hrs fog thereafter. No fog below in the early morning except for a little over Loch Lomond. Air slightly dry at times. Temp falling all day 23.3 to 15.2 . Bot changed at $4:15$ by robot $N^{\circ} 5355$ 41442 put out.

Feb 11th

Summit clear during most of the day and air slightly dry at times. Temperature low and fairly steady 13.5 to 8.5 . A little fog below in the forenoon. Glories seen at 9 hrs. Bot changed at $8:15$ but same thermometer in use after being thrown.

Feb 12th

Fog all day with short sunny intervals. Temp rising all day. 10.8 to 24.0

February 13th

A very fine day. Fog cleared off summit after 3 hrs. leaving sky cloudless during the rest of the day. Air very clear to W. The Outer Hebrides showing well in the afternoon. Some cumulus above horizon and a little fog on hills below during most of the day. Bot changed at $4:15$. Same thermometers left out viz 5355 41442

1961

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February 14th

Sky almost cloudless till 17 hrs. Overcast and fog till 20 hrs cloudless again since a little fog over Loch Lochy and to E during the day. Shadow of Ben Nevis and Earth's shadow seen at 17 hrs. West coast lights seen all evening

February 15th

Although sky was cloudless till 3 hrs fog was continually passing and finally settled on Summit thereafter. Slight snow falling in the afternoon but the heavy amounts were not measurable except at 16 hrs. Today C. Clark went down the hill to consult ^{Dr. Miller}

February 16th

Fog all day with showers of snow in the forenoon

February 17th

Thin fog all forenoon and clear to N most of the. Light Var N to NE winds all day. Snow began falling between 23 hrs + melt

February 18th

Summit clear at intervals during the day with occasional slight showers of snow. Today C. Clark returned to the Observatory accompanied by S. McLaren. On the way up they

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Cout

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met a party of three tourists going down who failed to reach the summit

February 19th

Sky cloudless till 6 hrs almost overcast with Cir-C till 13 hrs then fog again clearing occasionally. Fog over Lochiel and Loch Lochy in the morning. Air very clear and dry in forenoon the humidity being 27 at 6 hrs. West Coast lights seen in the early morning. The aurora seen at 22 hrs but due to fog passing the streamers were very indistinct.

February 20th

A very fine day, the sky being almost cloudless and the air very clear and dry the lowest humidity being 20 at 7 hrs.

No air or calm all day. Temp tho' somewhat low in the early morning rose quickly during the day range $19^{\circ}4$ to $30^{\circ}2$. Fog all round in the morning to about 3500 feet but sinking after 10 hrs. No fog below after 13 hrs. The aurora seen at 4 hrs

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February 21st

58

Air very dry most of the forenoon
the lowest humidity being 41 at 5 hrs. Sky
cloudless till 5 hrs cloudy and fog passing
at times till 13 Hrs fog since. Fog all round
below in forenoon to about 4000 ft on which
Glorias were seen. Earst shadow seen at 17.45

February 22nd

Var N^W winds all day becoming squally
in the afternoon. Thin fog with clear intervals
during the day. Barometer falling slowly
but temperature pretty steady all day
range 23 to 26. Glories and fogbows seen
at 8 hrs. Fog crystals forming all day.

February 23rd

Temp fairly high all day range 23.2 to 28.4
Var N^W winds somewhat squally in the forenoon
fog or mist clear at times about midday
light showers of snow in the early morning
and again in the evening

February 24th

Fog all day with continuous
heavy snow. Temp high range 26.2 to 31.3
Squally variable winds all day chiefly N^W.

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February 25th

Fog all day with showers of snow till 6 hrs and again after 17 hrs. Temp fell in the early morning quickly but rose during the day range 22.9 to 30.5

February 26th

Light S^W or S^{SE} winds all day. Temp very steady till 15 hrs between 29 + 30 falling slowly since. Thick fog all day and snow crystals forming rapidly. Earth currents in telephone at 2.10

February 27th

Fog cleared off summit after 14 hrs leaving sky cloudless since except for a little snow till 9 hrs. Fog below all round in afternoon but towards evening it had all cleared away. Temp falling all day. Air dry after 17 hrs. Slight showers of snow till 6 hrs. The winds have been chiefly N^W during the day but veering to E + SE after 19 hrs. Earth shadow seen at 19 hrs. Bot champagne at 16.10 H^{rs} 535541 + 42 put out

February 28th

Sky cloudless and air slightly dry till 11 hrs. Fog since. Barometer falling all day but quickly bright. SE or ESE winds all day increasing to gale force this evening. Slight haze below all round in forenoon. Fog crystals forming rapidly tonight. Earth shadow seen at 7 hrs

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March 1st

Strong ESE¹ or SE² gale till 17 hrs
moderating in force and veering to S since
day thick fog all day and snow crystals
forming rapidly on all exposed surfaces
Barometer very low but rising a little in the
afternoon. Earth currents at 16^h 55^m

March 2nd

Fog all day with snow falling since
17 hrs. Barometer very low and fairly steady,
Wind from S till 5 hrs, strong SSE¹ gale from
then till 19 hrs, veering to SW since, and
almost calm.

Mr Mullar went down to Fort William
to-day.

March 3rd

Fog all day with showers of snow.
Light variable winds, Barometer rising
rapidly, temperature steady.

March 4th

Fog all day, and mist since 21 hrs,
with showers of m. sl. and sn. Barometer.

Cont.

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falling. Temperature rising since
6 hrs. Winds S or SW by, blowing a gale
at times

March 5th.

Mist and fog all day, with heavy
showers of rain and snow, Barometer
unsteady, rising now. Strong SW & NW by
winds, blowing a hurricane in early morning.
Lower thermometer read at 2 & 3 hrs, Temperature
high in morning, but fell till 13 hrs, steady
since

March 6th.

Fog all day with showers of hail and snow,
Temperature steady rising now. Squally winds
chiefly NW by, rather variable since 13 hrs.
Thermometers changed at 7 hrs.

139244 9-50 put out.

535541 - 2 taken in.

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March 7th

62

Fog all day with showers of snow hail.
 Barometer rising rapidly. Strong
 squally N.E. wind. Rain could not be
 correctly estimated owing to heavy drift.

March 8th

Fog in morning clear rest of day.
 Strong squally N.E. wind.
 Mail & Appleck, McLaren arrived
 after stiff climb at 6 p.m.

March 9th

Temperature high & steady all
 day. Bee & McLaren went down

March 10th

Bar fairly high & rising all day
 falling towards evening. Temp high
 and steady 44.2 at 2 p.m. being
 highest reading this year.
 Bright sunny day with light
 N.W. winds.

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March 11th

63

Summit clear towards midnight. Fog or
mist with showers of sleet & rain rest
of day.

March 12th

Temp. & Bar. fairly high & steady all day
Fog or mist with light south Westerly
winds all day.

March 13th

Summit cleared after 10 hrs. Sky cloudless &
almost so till 17 hrs. Fog thereafter. Wind S.W.
till 5 hrs. S to SE since. Bar. & Temp. high
& steady.

March 14th

Summit clear all day. 9 hrs 45 min. sunshine
Air dry, greater part of the day the lowest
humidity being 56 at 11 hrs. Thick Cum Fog
lying all round below. Bar. steady. Temp.
high but falling slightly. Light S. E wind
all day.

March 15th

A very fine day but thick haze all
round. 8 hrs 42 min. Sunshine. The air
has been very dry all day the humidity
being 38 at 18 hrs. Bar. falling slightly
all day. ^{light E^m wind.} The cat caught a mouse.

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March 16th

64

Fog on Summit till 22 hrs clear till midnight
Bar & Temp steady light E wind

March 17th

Fog on Summit with clear intervals
light E^{ly} wind. Bar high & steady.
Temp. somewhat low but steady.

March 18th

Fog on summit with sunny intervals
Bar fairly high & steady Temp. low
Squally E to N E wind.

March 19th

Fog on Summit nearly all day
clearing towards midnight.
Bar fairly high & steady. Temp steady
Squally N E. wind.

March 20th

Fog on Summit till noon. Clearance
with exception of slight passing fog.
Bar rising Temp steady. Glories seen
at 1st gorge. Earth shadow seen.
Light N E wind. Raven & Hawk seen

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March 21st

66

Bright cloudless day. The atmosphere very clear & dry, humidity being as low as 26. Bar. rising steadily all day. Temp. steady. Light E by winds during the day calm at night. Earth & Ben shadows seen. Record sunshine for year. 10 hrs. 36 minutes.

March 22nd

Fine sunny weather. Haze at times. Bar. very high. Calm most of the day.

March 23rd

Bright cloudless day somewhat hazy. Bar. & Temp high & steady. Atmosphere dry. Lowers Humidity 17 at 7 p.m. Glories seen at 8 a.m.

March 24th

Fog all day. Barometer falling. Temp falling rapidly from 25.9 to 7.3. Squally N. by Wind.

1901 March 25th

Fog on summits with sunny intervals.
Bar fairly high & steady. Temp. very low. —
Shady Range 13.3 to 5.8. 5.8 being the
lowest reading this winter. Squally N. E.²
wind. Lunar corona seen. Eagle seen flying
over summits during afternoon.

March 26th

Short clear intervals in early
morning fog during the rest of the day with
slight showers of snow. Temperature continues
low.

Today Mr Anderson came up and
Mr Affleck went down.

March 27th

Fog with clear intervals in
forenoon. Temperature still low.

Stevenson screen changed at 13 hrs,
Nos 535541 and 535542 being taken in
and 1392449 and 1392450 put out.

March 28th

Temperature continues well below
the mean for the time of year. Fog in
the morning which cleared off during the
day leaving a cloudless sky towards midnight.
Thermometers changed at 15 hrs, 535541 & 535542 being put

1901 March 29th.

68

Barometer falling rapidly all day. In the morning the wind was light from the SW but backed during the day to SE, increasing in velocity to almost hurricane force after 21 hrs. Summit clear with foggy intervals till 14 hrs. Fog hereafter. Temperature taken from tower thermometer at 21 & 24^{hrs}. Barometer pumping in afternoon and evening.

March 30th

Temperature rather higher today rising to 26 at 15 hrs. The gale continued to blow with a velocity of about 100 miles an hour till 6 am but moderated thereafter, the wind backing to SW. Fog practically all day.

Barometer pumping in forenoon. Tower thermometer in use till 6 am.

March 31st

Fog all day with occasional slight showers of snow. Lunar corona at 21 hrs but too faint to measure.

Today Mr C. Clark left for his holidays and Mr William Landale arrived at the summit to act as cook and steward in his stead.

1901

April 1st

69

Clear at 14 hrs. fog during the rest of the day till 23 hrs when it cleared off leaving a little scud; cirro-stratus at midnight. Lunar corona at 22 hrs - radius of red = $5^{\circ} 54' 30''$

Thermometers changed at 16 hrs No 1392449 & 1392450 being put out; No 535541 & 535542 being again put out at 23 hrs.

April 2nd

Summit clear with Cum-S + Cir-S till 5 am., fog with a brief interval during the rest of the day. Snow began to fall at 18 hrs and continued till midnight. Wind ESE and SE most of the day and blowing a strong gale from 5 am. till 5 pm. Moderating thereafter and veering to S.W. Lunar corona at 1 hr + lunar halo at 1 hr and 2 hrs. Fog crystals forming.

Tower Thermometer used at 8, 9, 10, 13, & 14 hrs. Barometer pumping most of the day. Measurement of precipitation uncertain owing to drift.

April 3rd

Fog all day with frequent showers of snow, measurement however being doubtful owing to snowdrift.

Screen changed after 19 hrs No 1392449 & 392450 being put out.

1901 April 4th

70

Fog all day with frequent showers of snow. Barometer rising rapidly. Strong squally winds and heavy snowdrift.

April 5th

Fog with sunny intervals today there being nearly 4 hrs sunshine recorded.

Faint lunar corona at 4 hrs.

Screen changed at 8 hrs Nos 535541 (Dry) + 535542 (Wet) being put out. Height of bulbs above snow = 43 inches.

Today 14 members of the Scot. Mountaineering Club visited the Observatory.

April 6th

Fog or mist all day. The temperature rose from $19^{\circ}4$ in early morning to $34^{\circ}0$ at 10 pm. Drizzling rain began to fall at 21 hrs. Strong S to SE winds prevailed during the day, but ~~it~~ veered to SSW towards midnight. Fog crystals forming rapidly during the day.

Nine members of the Scot. Mountaineering Club visited the observatory today.

April 7th

Mist with occasional slight showers of rain, sleet & snow. Barometer began to fall rapidly at 19 hrs, the wind increasing to a slight gale from the S.E. Glazed frost in early morning.

Screen changed at 19 hrs, Nos 1392449 &

1901

April 17th contd.

71

1392450 being put out.

To-day the Observatory was visited by two members of the Scot. Mountaineering Club and by two gentlemen from Glasgow.

April 8th

Temperature fairly high and steady today - range 25.7 to 31.0 . Fog or mist all day with frequent showers of snow and sleet. Drift very heavy in early morning as the wind was blowing a moderate SSE gale. Owing to this the amount of precipitation at 2 & 4 am. is only approximate.

Six members of the Scot. Mountaineering Club visited the Observatory this afternoon.

April 9th

Fog all day although the sun was gleaming at times in the forenoon. Showers of snow fell in the early morning and in the afternoon. Screen changed at 11 hrs, thermometers nos 535541 + 535542 being put out - height of bulbs above snow = 37 inches. Depth of snow today 69 inches.

Hugh Mackenzie came up today bringing a dozen tins condensed milk and fetched down the daily and monthly sheets for March.

Today five members of the Scot. Mountaineering Club climbed the Ben ascending by the Castle Ridge.

1901

April 10th

72

Fog or mist most of the day but the summit was clear from 18 hrs to 21 hrs. Slight showers of snow in the forenoon. Fully one hour's sunshine recorded. Earth shadow seen at 7.30 pm.

Screen changed at 6.15, No 1392449 and 1392450 being put out. The screen is now on the highest step of the tallest ladder - height of bulbs above snow 47 inches.

April 11th

Fog all day with showers of snow in the afternoon and evening. Strong squally N to E winds. Fog crystals forming in the forenoon.

April 12th

The summit was covered with fog till 10 am., when it became clear although the sky continued cloudy and the air was never very dry, the lowest humidity being 70%. At midnight fog came on again and snow began to fall. The wind was squally from the N.E. in the forenoon, but backed to S and S.W. later.

A snow bunting was seen at the bucket stage today.

The screen was changed at 11 am., Nos 535541 (Dry) & 535542 (Wet) being exposed. - height above snow 45 inches.

Today Mr David McLaren came up with letters &c.

1901

April 13th

73

Fog all day with occasional slight showers of snow. The sun was gleaming at 12 and again at 14 hrs.

April 14th

Fog all day with showers of snow. Depth of snow at snowpost is 79 inches today.

April 15th

Fog today till between 10 and 11 p.m., when it cleared leaving the sky cloudless except for a little stratus on horizon. A good deal of snow fell during the day and the depth is now 87 inches.

Screen changed after 11 p.m., Nos 1392449 and 1392450 being put out.

April 16th

Barometer rising steadily all day, the wind being light and mainly NE^E. The summit was for the most part clear with cumulus and cirrus types but fog persisted from 18 hrs till midnight.

Thermometers changed at 12 hrs, Nos 535541 and 535542 being exposed. Today a joint was added to the ladder on which the screen is placed, the height of bulbs above snow being 53 inches.

1901

April 17th

74

Fine sunny weather today, the summit being clear for the greater part of the day and the air very dry at times, the lowest humidity being 28%. The wind was N^{ly} and light during the first half of the day, but backed to SW in the afternoon, increasing in force at the same time. Fog at 15 & 16 hrs, and from 20 hrs till midnight. Snow began to fall at 21 hrs.

The Earth & Ben shadows were seen today.

April 18th

Barometer very steady today. Temperature rather higher, range 31° to 35°. Mist all day and almost continuous drizzling rain or sleet. Glazed frost in early morning.

April 19th

Barometer very steady. Temperature high, maximum being 37.2. Fog or mist till 6 hrs, summit being clear during the rest of the day. Strong squally southerly winds all day.

Screen changed after 6 hrs, No 1392449 and 1392450 being exposed. A raven was seen today, near the NE buttress.

1901

75

April 20th

Barometer still very steady. Temperature continues high, range $30^{\circ}.0$ to $38^{\circ}.1$. Fine and sunny weather, although thick haze has persisted all day.

April 21st

Temperature unusually high today, range $37^{\circ}.0$ to $42^{\circ}.7$. Fine weather all day and about eleven and a half hours sunshine recorded. Thick haze continues.

A raven was observed near the Observatory today. Three strangers climbed the Ben and visited the Observatory.

April 22nd

Temperature continues high. Summit clear till 19 hrs when mist came on. Drizzling rain began at 20 hrs.

Screen lowered one step on the ladder at 6 hrs - height of bulbs above snow $4 \frac{1}{2}$ ins

April 23rd

Mist or fog till 20 hrs, Cirrus & Cirro-Stratus thereafter. There was drizzling rain in the early morning and at 13 hrs the temperature fell below freezing point and a little snow fell.

Lunar halo at 22, 23, & 24 hrs, radius $20^{\circ}.29'$ (approximate)

Screen changed at 21 hrs, No 535541 (Dry) & 535542 (Wet) being put out.

1901

April 24th

76

Summit clear most of the day. The wind backed from SSW in the early morning to SE and from 21 hrs to midnight it blew a slight gale.

Earth & Ben shadows seen at 5 hrs.

Raven seen on the summit in the afternoon.

April 25th

Summit clear all day but cloudy or overcast except in the early morning and towards midnight, when the sky was cloudless or nearly so. Hazy all day. Wind SE and ESE and blowing of a gale practically all day. The estimated velocity varying from 40 to 80 miles an hour.

April 26th

Temperature high - range 44° at 17 hrs to $30^{\circ}4$ at midnight. Wind blew a gale from SE in early morning but moderated and backed to E and NE during the day. Very fine sunny weather, the sky being cloudless or almost so during the greater part of the day.

Today the cat caught a young rat in the Observatory.

1901

April 27th

77

Temperature rather lower today- range $26^{\circ}1$ to $33^{\circ}8$. Clear all day except at 15 hrs when the summit was covered with thin fog. A very little snow fell at 12, 14 and 15 hrs.

Earth and Ben's shadows seen in morning, and a lunar halo observed at 22 and 23 hrs— radius $21^{\circ}7'$

Thermometers changed after 1 am., Nos 1392449 and 1392450 being exposed.

Today a number of snow buntings were seen near the Observatory.

April 28th

The summit was clear but fog passing at 1 and 2 and again at 12 hrs, fog or mist during the rest of the day. A raven was observed at 11 hrs.

Thermometers changed after 12 hrs, Nos 535541 & 535542 being put out— height above snow 53 inches.

There were six visitors at the Observatory today.

April 29th

Mist till 10 hrs. clear during the rest of the day. Temperature high $33^{\circ}4$ to $40^{\circ}3$.

Thermometers changed at 10.15 am. Nos 1392449 and 1392450 exposed; height above snow 53 inches.

A raven and a number of snow buntings were seen flying past the Observatory this afternoon.

1901

April 30th

78

Summit clear at 1, 2, and 3 hrs. fog or mist thereafter till midnight when the fog sank below the level of the hill.

Today the Stevenson screen was shifted to the highest step of the shortest ladder; height of bulbs above snow 45 inches.

April

1901

79

May 1st

Temperature high $33^{\circ}.3$ to $46^{\circ}.8$. Summit clear but very thick haze around till 22 hours when it cleared somewhat.

May 2nd

In the morning the sky was cloudless while low fog covered Glen More, Rannoch Moor &c. At 10 hrs Cumulus clouds appeared in the sky and remained during the rest of the day. Wind SE in morning, backing to E, and light in force all day.

A raven and a number of snow buntings seen today.

Four strangers, one of them a lady, visited the Observatory during the afternoon.

May 3rd

Temperature high today, range 38.7 to 47.8 . Very fine sunny weather, but a slight fall of hail and rain occurred in the afternoon. Thunder heard at 15 hrs.

Today Mr Charles Clark resumed duty, and Mr Wm Landale left.

May 4th

Barometer falling. Temp. fairly high and steady. Fine sunny weather throughout the day but sky somewhat cloudy during the latter part. Light

1901.

Cont^d

80

Nly air most of the day.

Today Mackenzie & McLaren came up and on returning Mr Anderson went down with them.

Mr Bee came up for duty.

May 5th

The summit was clear till 9am. Since then there has been fog or mist.

Bar. still falling 25.636 to 25.164. Temp. falling from 34.7 in early morning to 26.3 at Mid.

Four strangers visited us today.

May 6th

Clear on summit till 9am. Fog or mist during the rest of the day. Temp fairly steady to day 29.3 to 22.3. The barometer continues to fall rapidly. Moderate SE ly winds all day. Lunar Coronae were seen at 1 & 3am, the latter being especially bright.

May 7th

Fog or mist all day with showers of snow. The barometer having sunk to 24.728 at

1901.

cont.

81

San. began to rise steadily. Temp steady.
 max. 31.0 . Min 25.0 . Squally winds all days
 SEly backing to N by night.

4th day Mr. Buchanan visited the observatory
 and examined the telephone.

May 8th

Barometer still rising steadily. Fog till 9am,
 cloudy after till 9pm when fog came on
 again. Squally Ely winds. Snow in early
 morning.

A number of snow buntings were seen
 near the observatory. The cat caught a
 mouse today.

May 9th

Fog all day. Barometer rising slightly but
 steady after 19 hrs. Temp. very steady 28.0 to 32.0 .
 Light Nly breezes all day.

May 10th

Fog all day, with a very clear interval
 from 2 to 5am. At 2am & 3am sunrise colours
 were seen. Bar falling slightly till
 19 hrs. Steady since. Temp. very steady Max.
 32.7 Min. 30.0 . Showers of snow after 18 hrs.

1901

May 11th

82

Fog till 10 am. Cloudy weather till 19 hrs. Clear thereafter. Barometer rising. Calm or light NW by airs all day.

To day Mr. Michael Barne (British A. E.) visited the observatory.

Mr. Marr went down to Fort William.

May 12th

Clear sunny weather. Barometer continues to rise steadily. Temperature fairly high 26.0 to 38.0. Seven strangers visited the observatory today.

May 13th

Fine sunny weather but very hazy. Sky almost cloudless there being no lower clouds whatever. Almost 14 hrs sunshine is recorded today. - Temperature high. 35.9 to 45.5.

A stranger visited the observatory today. In the afternoon Mr. Marr arrived from Fort W.

May 14th

Barometer very steady - a difference of .038 inches between Maximum & minimum. Temp. very high. 52.0 registered being highest for the year.

a stranger visited the observatory today.

1901.

May 15th

83

Barometer has begun to fall though slightly. The temperature remains high and shows a fair range 41.0 to 51.0.

The sky was almost cloudless to day and 14 hrs. 31 minutes bright sunshine was recorded, Calm or Nly air throughout the day.

3 strangers visited the observatory today.

May 16th

The barometer continues to fall slightly. Temperature high. Calm or almost so during the day.

Over 15 hrs. sunshine recorded to day, being 94% of possible.

Four strangers, two of them ladies visited the observatory today.

May 17th

The summit was clear till 4am, at that time the sky became cloudy, and from 9am till 9pm mist prevailed. For some unaccountable reason the Wet Bulb of the thermometers when read at 9 to 13hrs inclusive and at 15, 18, and 19 hrs. was much lower than the Dry Bulb. In the daily sheet these readings have been entered as

1901.

~~cont~~

84

saturated, the clouds at the time being mist or fog. At 18 hrs. the thermometers were changed Nos. {535541 being taken in and Nos. {1392449 put out. a snow hunting was seen close to the observatory during the afternoon.

May 18th.

Fog or mist all day. The barometer has been fairly steady. The temperature has fallen considerably from that of the last few days. Maximum reading 35.0 and Minimum 29.5.

At 16 hrs. the thermometers were tried together when it was found that Nos 535541 and 535542 were again reading correctly. These were left out and Nos 1392449 and 1392450 taken in.

May 19th.

Barometer rising slightly. Temperature rather higher today the maximum being 41.3. Fog or mist till 8 am, cloudy or overcast since. At 11:15 am the Dry & Wet Bulbs were changed. Nos {535541 being taken in and Nos. {1392449 put out.

Seven strangers, two of them ladies visited the observatory today.

1901.

May 20th.

Barometer rising steadily. Temperature $33.5 - 38.0$.
Clear till 4am. Fog with clear intervals till 3pm,
when the sky cleared altogether. Light S.W. winds
throughout the day.

To day Hugh Mackenzie came to the top with a
horse and some provisions. This is the first
ascent with a horse this year.

At 15 hrs. the Stevenson screen was shifted
on to the shorter ladder. Height of Bulbs 46 inches.

May 21st.

Barometer high and rising slightly. Temperature
fairly high and showing considerable range
 36.0 to 49.2 . Fine sunny but extremely
hazy weather. At 20 hrs. the sky became
cloudy and continued so till midnight.

May 22nd.

The barometer is very high. To day it reached
 25.985 inches at 21 hrs, after which it was steady.
Temperature shows a good range the Maximum
being 57.9 and the Minimum 34.8 .
Fine sunny weather the sky being cloudless, but
extremely hazy.

1901.

May 23^d

86

The barometer continues high and today reached a Maximum of 26.034 inches at 23 hrs.

Temperature high. Fine sunny weather.

To day a horse came up with provisions & letters.

May 24^d

The barometer began to fall in early morning and continued going down all day. Fine sunny weather but very hazy at times. A considerable

amount of Cirrus cloud in the sky today.

At 22 & 23 hrs. Lunar Coronae were observed.

At 3:15 pm. box was changed to the shorter ladder, Height of Bulbs 41 inches.

May 25^d

Barometer falling. Fine sunny weather the sky being cloudless all day, 95% of the possible sunshine was recorded today. Light Ely breezes throughout the day. Earth shadow seen at 9:15 pm.

May 26^d

The barometer continues to fall. Temperature fairly high 39° - 46.2. Cloudy or overcast weather all day. Clouds Cirrus till 10 am. Light winds chiefly Ely all day.

1901.

May 27^d

87

Overcast weather or mist. Squally S Ely winds all day. Only 9 minutes sunshine was recorded to-day. Mr. Bee went down to Fort William.
_____ " _____

May 28^d

The barometer began to rise slightly to-day. Mist with a few short sunny intervals till 18 hrs. after which the sky was overcast, but at 22 hrs. the sky became cloudless.

Today Duncan Rankin brought a horse up with provisions. In the evening Mr. Bee arrived from Fort William with Hugh Mackenzie who was to stay overnight.
_____ " _____

May 29^d

The barometer has been fairly steady but falling slightly. The sky was cloudless till 9am but then it became cloudy or overcast and at 14 hrs. thick mist came on. S Ely winds during the day increasing from light in morning to Moderate tonight.
_____ " _____

May 30th

Barometer has fallen steadily to-day. Mist or overcast weather throughout the day. S Ely winds, somewhat squally and increasing in force towards midnight.
_____ " _____

1901.

May 31st

88

Baromet^r rose till 15 hrs. but fell subsequently.
Pumping all day it did so especially from
6 am to 11 am. and from 6 pm to midnight.

Mist or overcast weather all day. Strong squally
Sly winds increasing in force and blowing a
gale at midnight. Showers of Sleet & Rain.

Earth currents were noted at 3:15 and 3:30 pm.

Duncan Rankin came up with a horse today
bringing provisions and letters.

1901.

June 1st

89

Barometer fairly steady, falling to night.
Mist all day. Strong squally S by and SW by winds.
Heavy showers of rain. East current noted at
3:40 pm. ——— " ———

June 2nd

Barometer rising. Temperature fairly steady.
Squally SW by winds in morning, light winds in
evening. Heavy showers of rain in morning.
———— " ———

June 3rd

The barometer rose till 22 hrs. but then fell.
Mist with clear intervals throughout the day.
Light SW by winds.
To day Mr. Miller came up for duty.
———— " ———

June 4th

Summit clear at times during the day.
Heavy showers of rain in early morning and
again after 17 hrs. Air slightly dry from 11 to
13 hrs. Today Mr. Mann went down to L. F. O

June 5th

Temperature low all day range 31.1 to 34.7
Light Variable winds chiefly W. Showers of
snow hail sleet & rain since 9 hrs.
Barometer rising steadily all day

1901

June 6th

Temp very steady till 10 hrs between 31° + 32° but rising during the rest of the day. Summit clear from 13 to 17 hrs but sky overcast or almost so cloudless since. Air dry all afternoon very dry in the evening the lowest humidity being 38 at 20 hrs. Light N^E or NW^E winds all day. Some Cum at horizon to W² after 20 hrs also detached fog on hills to W² and N²

June 7th

Barometer high but falling a little in the evening. A very fine day accompanied with high temperature and very dry air, the humidity ranging from 66 to 34; and the max temperature 57.1 at 13 hrs being the highest recorded this year. A little Cir. Cir. & Cir-S on sky all day and moving from the NNW. slowly. Det fog on hills to N & W almost all day. Slight haze in afternoon. Solar Halo seen at 16 hrs —

June 8th

Sky cloudy almost all day with Cir. Cir-C & Cir-S. In the forenoon the motion was rather slow, but in the evening the motion was very rapid and from the SSW. Temp high all day range 56.6 to 45.0 . Fog in valleys during the forenoon and slight haze in the distance —

1901

cont

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but the haze became very dense in the afternoon all round and high up. Light winds all day chiefly S^W.

June 9th

Summit clear till 2 hrs. Fog a brief time with showers of drizzle in afternoon & snow in the evening. Temperature falling all day. Range 44.0 to 29.2 . Barometer falling slowly all day. Light W^W or NW^W winds during the day turning to N in the evening.

June 10th

Fog with heavy showers of snow. Temp very low all day range 31.7 to 26.6 . The snow that fell today has covered the summit to a depth of several inches.

June 11th

Very heavy showers of snow all day. Var squally NW winds with considerable snowdrift. The average depth of snow at 8 pm was 8 inches. ~~The~~ Temp low range 29.0 to 23.6 . Thunder heard and earth currents on telephone at 11th 55^{min}. The man with Hotel pony saw lightning at the Lake about the same time.

1901

June 12th

Fog with occasional short sunny intervals. Temp continuing low range 25° to 30°. Showers of snow during the day

June 13th

Temperatures somewhat higher today range 27° to 33°. occasional showers of snow & sleet during the day. Barometer pumping tonight

June 14th

Slight showers of snow and sleet in the forenoon. Summit clear most of the afternoon and the air slightly dry; the clouds being low down and tipping hilltops all round. Temperature somewhat higher today but falling again to the freezing point in the evening

June 15th

Summit clear after 1 hr. but a little Cir & Cir S on sky and moving from W. Air very dry at times in the forenoon; the lowest humidity being 36 at 4 hrs. Fog all round below. Fog enveloped summit again after 11 hrs. Slight showers of drizzle in the evening

June 16th

Temperature low being below 32° almost all day. Fog or mist clearing at times to N during the day. Showers of drizzle in early morning & slight showers of snow in the afternoon

1901

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June 17th

showers of snow till 9 hrs and again after 20 hrs. Temp low being at or below 32° all day

June 18th

Summit frequently clear during the day for short periods and air slightly dry. Some Cir + Cir-S on sky and moving from NNW rather slowly in the evening. Showers of sleet in the early morning and passing showers in the afternoon also to N + E. Very gloomy to E in the evening. Temp higher today range 32° to 39° 4

June 19th

Summit clear and air dry from 3 till 10^h but sky almost overcast. Mist since with drizzling rain. Light to moderate SE or SSE winds till 7 pm veering to SSW since

June 20th

Temperature considerably higher today range 37.8 to 44.0 . Mist with drizzling rain all day

June 21st

Mist with heavy showers of rain. Occasional breaks in the mist, during which short periods of sunshine were recorded. East currents between 8 + 9 pm. Today Mr Watt came up to take duty as observer

1901

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June 22nd

Mist or overcast sky all day. air slightly dry at times in forenoon. Heavy showers of rain after 21 hrs. Light S^W or S^W winds during the day backing in the evening to SE + ESE and moderate in force.
 To-day Mr. W. Bee went down the hill to take duty at Low Level Observatory

June 23rd

Squally S^W winds till 10 hrs turning to N since. Mist or overcast sky all day with heavy showers of rain

June 24th

Temperature low and pretty steady all day. Range 35° 3 to 31° 5. Barometer rising steadily. Mist all day with showers of drizzle till 12 hrs

June 25th

Fog or Mist with showers of drizzle during the day

June 26th

Mist with drizzling rain till 13 hrs, cleared till 20 hrs sky a little cloudy with Cir-S thereafter. The clouds in afternoon were low down and capping the hills all round, but at midnight the clouds below had all disappeared.
 Light Var airs and Calm all day

1901

June 27th

Summit clear almost all day but sky overcast. Fog in valleys throughout the day and at times rising up and passing over summit. Light Var. airs and calm. Temp low in morning but rising during the day. Air slightly dry dew on thermometer but on roof of observatory at 3 hrs

June 28th

Temperature higher today than has been for the last three weeks range 38 to 49. The sky has been very cloudy and at times overcast during the day. detached fog in valleys in the early morning but clearing away again during the course of the day. After 19 hrs the clouds were descending and by 20 hrs had enveloped the hill tops and continued so during the rest of the evening. Light airs chiefly SE^{ly} and calm all day.

June 29th

Sky somewhat cloudy almost all day but otherwise fine; the temperature ranging from 43.0 to 51.8. Fog all round and level with summit at 1 hr but after 3 hrs it -

1904

Con⁵

96

- gradually sunk down to about 2500 ft at 5 hrs and remaining in valleys more or less during the rest of the day. Thick haze all round in afternoon. A solar halo seen at 5 hrs. A meteor seen at 3:21⁴ m falling near N cliff and having the shape of a candle flame but ^{much} larger and very bright

June 30th

Sky cloudless all day except for a little Cir-C in the evening. Thick haze all round in the morning but becoming thinner and disappearing altogether during the day. Fog on hills to E + S almost all day. Temp high and air dry day long in the evening, the lowest humidity being 34 at 14 & 20 hrs. Barometer falling slowly all day. Light ESE² winds and Calm all day.

1901

July 1st

The fog that lay in valleys last night to the E+S rose up and enveloped summit after 3 hrs but after 7 hrs the fog again cleared off and the hill top has been clear since. Sky has been pretty cloudy all day with hard packed air-S chiefly. Fog on hills to N+NE in the evening. Moderate to strong ESE¹ winds all day.

"At 15 hrs there appears a sudden fall in the wet Bulb temperature, which makes the difference between dry & wet Bulbs (8.9) considerably greater than was observed at any other hour of the day; but this the observer affirms to be a true and correct observation."

July 2nd

Strong ESE¹ winds all day at times reaching full force but moderating in the evening. Sky a little cloudy all day. Fog on hills to N+NE all forenoon but disappearing towards noon, but again reforming in the same directions in the evening. Glories seen at 21 hrs. Today Mr Watt went down the hill and Mr Aitken came up to take Antey

1901

98

July 3rd

Temperature exceptionally high range
 44.0 to 63.0. A very fine day, the sky being
 almost cloudless and air very clear all
 day. Light ESE winds during the day
 falling calm in the evening. Some fog
 in valleys to N + NE in the morning but it
 disappeared during the forenoon. 93%
 of the total possible sunshine was recorded
 today. Thermometer N^o 192671 which has
 been hanging on kitchen wall for the last
 few years was accidentally knocked
 down and broken today

July 4th

Sky almost cloudless till noon, over-
 cast in afternoon and fog off and on
 after 21 hrs. Temperature still very high
 range 47.2 to 59.8. Stage around all day
 thicker in afternoon. A little detached
 low lying fog to N + NE in early morning
 Light winds all day chiefly SW

July 5th

Summit clear from 10 to 14 hrs and air dry at times
 mist during the rest of the day with slight drizzle in
 early morning. Light Var air all day chiefly SW
 The observation at 13 hrs was taken 8 mins late

1901

July 6th

99

Mist or fog till 15 hrs, sky cloudless since, the fog sinking below the level of summit and finally disappearing after 19 hrs. The temperature was fairly steady till 15 hrs between 42 + 45 degs rose suddenly about 7 degs at 16 hrs and pretty steady thereafter, the air becoming very dry at the same time the humidity falling from 91 to 34 at between 15 + 16 hrs. The lowest humidity being 31 at 21 hrs. Glories seen at 17 + 18 hrs

July 7th

Mist or overcast sky with lighter showers of drizzle till 12 hrs almost cloudless since. Fog in valleys all day. Temp high range 48.0 to 61.9. Air slightly dry all afternoon

July 8th

Temperature very steady all day range 52.0 to 56.5. Barometer falling slowly. Cloudy or overcast sky till 20 hrs, fog since. Fog in valleys all round all morning but dispersing during the day. Slight shower of drizzle between 18 + 19 hrs

1907

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July 9th

Summit clear from 10 hrs but dull
cloudy or overcast weather since. Thick
haze all round in the afternoon
Barometer steady or falling slightly during
the day rising a little tonight

July 10th

Overcast sky or fog till 7 hrs Summit
clear since and very fine and clear
some Cum above horizon all day and slight
haze above horizon in the evening

July 11th

Temperature decidedly lower today range
49° to 39°. Summit clear and air dry till 5 hrs
fog or mist since with showers of rain and
drizzle. Due to the high temperatures experienced
since the beginning of the month, the office
fire was kindled in the afternoon for the
first time this month.

July 12th

Fog or mist all day with occasional
light showers of drizzle during the day. Clear
at 2 hrs and air slightly dry. Heavy clouds
below all round

1901

July 13th

Mist with drizzling rain till 23^h.
Almost cloudless since, the mist hanging
below the level of summit. Temp
rising slowly all day but between 23 hrs
and mid it rose quickly from 40 to 45 deg.

July 14th

Day pretty cloudy all day. Overcast
and mist since 20 hrs with showers of hail
and heavy rain. A solar halo seen
at 6 hrs. Thunder heard at intervals
between 17 and 21 hrs and St Elmo's fire at
21 hrs. Strong Earth currents all evening

July 15th

Mist with drizzling rain till 22 hrs.
Cloudless since and air dry but fog
below all round

July 16th

Summit clear till 2 hrs and again from
9 till 16 hrs but sky nearly overcast with cir and
with hard packed Cirro-str. Drizzling rain in the
evening. Squally variable winds all day.
Today Mr. Chas Clark left Observatory to join
National Antarctic expedition

1901

July 17th

102

Pressure and temperature high and rising all day. Mist all day with slight drizzle in morning and again in evening.

July 18th

Temperature high and steady all day range 54.0 to 51.1. Mist all day with slight drizzle till 6 hrs. Lightning seen at 23^h 50^m + 23^h 55^m

July 19th

Summit clear for short periods during the day. Lightning seen at 0^h 10^m + 0^h 27^m

July 20th

Still clear and air dry between 12 & 19 hrs but sky very cloudy and gloomy looking SE winds all day, light during the day but increasing in force towards evening. A severe lightning and thunder storm began at 22 hrs and continued till midt increasing in severity. The lightning towards midt was very vivid and appeared to be immediately overhead. At times three and four flashes would appear simultaneous and frequently with only a few seconds between the flashes. Heavy rain began to fall at 23^h 45^m. At midt no outside observations were taken except direction + force, so that temp. and amount of rainfall are interpolations.

1901

103

July 21st

Moderate to light S to SE winds all day. Mist or overcast sky with heavy showers of rain. Thunder + lightning storm continued till 3 hrs and again from 22 hrs till midn. St Elmo's fire seen at 0^h 45^m. At 1 hr the measurement of amount of Rainfall is interpolated.

July 22nd

Summit clear at times during the day, but thick fog all round. Heavy showers of rain in the early morning and again between 17 + 19 hrs. Several flashes of lightning seen but no thunder heard between 8 + 11. Rainbow seen at 19 hrs.

July 23rd

Temperature and pressure falling slowly all day. Summit clear at times in the forenoon and a little sunshine recorded. Slight showers of drizzle between 6 + 8 hrs and again after 22 hrs. Today Mr Simpson arrived at Observatory to do duty as Cook & Steward.

1901

104

July 24th

Summit clear at times during the day with short sunny intervals. Heavy showers of rain till 6 hrs from there after. Light SE air or calm till 13 hrs light N^W winds since. Temperature decidedly lower today. range 40.8 to 46.9

July 25th

Summit clear for a few moments at 10 hrs and sky apparently almost cloudless. Mist during the rest of the day with drizzling rain. Variable squally N^W winds all day. Temp still keeping low and steady range 40.7 to 50.5

July 26th

Mist with drizzling rain till 8 hrs. Summit clear and air slightly dry tho sky somewhat cloudy. Tilt 17th mist since but clearing at times. Showers of rain since 17 hrs. A very heavy shower fell between 17 & 18 hrs the amount being 0.257 inch.

July 27th

Fog off and on summit, considerable bands of fog high up all round and this was passing frequently over summit during the day. Aurora seen at Mt. St. Strong earth currents all evening.

July 28th

Sky cloudless except for the fog which surrounded the summit all day and rose at frequent intervals towards midday and passed overhead. Temperature high and air dry with Calm or light N² winds all day. The roof of Observatory was quite soaked with dew at 1 hr. The Aurora seen at 1 hr.

July 29th

Temperature high and light winds chiefly W. Sky a little cloudy most of the day. Fog all round below all day.

July 30th

Sky almost cloudless till 3 hrs but fog all round below rising up and enveloping summit till 3 pm when it sank again leaving sky cloudless but fog came on again at night. Slight drizzle fell between 6 & 12 hrs. Barometer rising slowly all day but temperature falling 53.5 to 44.7. Lunar Corona seen at 23 hrs.

July 31st

Mist till 2 hrs. clear and air dry till 10 hrs. Mist since with slight drizzle. Light SSE or S² winds till 5 hrs veering to SW & W since somewhat squally in the evening.

August 1st

Mist with heavy showers of rain.
Summit clear at 22 + 23 hrs and sky
apparently cloudless but fog all round
top on summit again at midnt. Light
W or SW winds during the day veering
to N in the evening

August 2nd

Mist all day except at 16 hrs
when the summit was clear for about
10 mins. but sky overcast. Showers of
rain in the forenoon

August 3rd

Mist all day with a clear interval from
10 to 13 hrs. Drizzling rain from 12 hrs onwards.
Today Mr. Affleck and Mr. Hollis Mass came
up to relieve Mr. Miller and Mr. Aitken, the latter
having been at the top for a month.

August 4th

Mist with drizzling rain all day.
Light Wly and NWly winds. Temp. rather
low.

1901.

August 5th

10.7

Mist with drizzling rain. Temperature still low reaching a minimum of 32°F .
Light winds Nly backing to SWly.
—— " ——

August 6th

Mist with drizzling rain all day. Clear intervals of about 2 minutes duration were noted between 1 and 3 pm. The temperature is a little higher today.

Today Mr. John Kempston arrived to take up duty as cook and steward, and Mr. Simpson who has been acting in that capacity left.
—— " ——

August 7th

Bad weather still continues. The rain though slight is almost continuous. The barometer is fairly steady. The temperature shows a slight rise. Light Wly winds throughout the day.
—— " ——

August 8th

Mist with drizzling rain in morning. Towards midnight the temperature rose. With the exception of a few gleams between 7 and 9 am. there was no sunshine.
—— " ——

1901.

August 9^d

108

Mist all day. Drizzling rain in early morning but heavy showers after 19 hrs. The temperature reached 48° today. The barometer has fallen slightly.

August 10^d

Mist with slight showers of rain throughout the day. The barometer continues to fall.

August 11th

Mist till 9 am. after which for a considerable period we had the maximum visibility. Light SE by winds.

August 12^d

The SE by winds of the previous day continued. The barometer continued steady but shows a slight fall for the entire day. A severe thunder storm accompanied by rain and hail passed over the summit from 12 to 15 hrs. During this period and later earth currents were noted.

1901.

August 13th

109

Fog or mist till noon. Clear till 8pm.
Light S by or SE by winds prevailed during the
day but about 20 hrs. the velocity of the
wind increased to that of a gale. Three
sheep were seen on the south side of
the hill quite near the top.
_____ " _____

August 14th

Mist all day. The barometer fell slightly.
Strong SE by winds. Storing of food stuff for winter begins.
Mr William Bruce came up today from Fort William
to take up duty as observer.
_____ " _____

August 15th

Mist or fog still continues with slight
showers of drizzling rain. The sky cleared
for about ten minutes at 4pm. The barometer
has risen slightly and temperature fallen.
Today Mr Affleck left.
_____ " _____

August 16th

Mist or fog all day till 23 hrs. when the sky
almost completely cleared. The barometer
rose steadily all day. Light W by breezes.
Earth current noted at 3:8pm. Snow fell at 9:20am
but the amount was not measurable.
_____ " _____

1901.

August 17th

110

Fog with clear intervals till 8 am. Thereafter mist with drizzling rain. Strong squally SE by winds during the day backing to SW at night. A fog bow and glory were seen after 8 am. The colours in the bow were very distinct.

August 18th

Fog or Mist all day with the exception of a clear interval at 20 hrs. At that time the sky cleared away to the West and a very fine sunset was observed. The barometer has risen steadily, while the temperature has fallen.

August 19th

Fog till 5 am. when the sky cleared. Fine sunny weather prevailed throughout the day, at times the sky being cloudless. The barometer rose considerably while the temperature was fairly steady.

August 20th

The barometer continues to rise. The temperature also is much higher and shows greater range than usual. Over 13 hrs. sunshine was recorded today.

1901.

August 21st

111

Fine sunny weather prevailed. The barometer though high has fallen slightly. The weather today was extremely hazy, the visibility seldom exceeding 2. ^{At 15 hrs. Thermometers changed.}
 555541-42 (taken in.) 1392449-50 Patent.
 Today Mr. Watt and Mr. Miller came up to inspect the instruments.

August 22nd

Today was spent by Messrs Watt & Miller in examining the various instruments. In the afternoon they left.

Mist all day.

August 23rd

The first three hours of the morning the sky was cloudless. Mist came on at 4 am and remained till 13 hrs, when it cleared slightly.

During the greater part of the day it was calm. Today Kempston went down to Fort William.

August 24th

The barometer fell steadily all day. Fine sunny weather prevailed during the day. From 7 to 19 hrs. it was extremely hazy. Today Kempston left.

1901.

August 25th

112

The barometer continues to fall. Mist all day with drizzling rain. Light SWly winds.

August 26th

after 5 hrs the barometer began to rise slightly. The summit is still covered with mist. Showers of drizzling rain fell in morning and in the afternoon some sleet. The temperature has fallen from 39° at 1 am to 32° at midnight.

August 27th

The barometer rose steadily throughout the day. Slight pumping was noticed however. Mist or fog, with occasional clear intervals about noon.

August 28th

The temperature has been rather low today but steady, it reached a minimum of 26°. About 9 am. Ice crystals were noticed forming. Today Mr. Peter Crombie came up to act temporarily as cook.

August 29th

Mist all day with showers of rain in evening. The barometer has been fairly steady. The temperature is somewhat higher today.

1907.

August 30th.

113

The summit was covered with mist or fog till 15 hrs. From then till midnight the sky was cloudy with a little sand passing over summit. At 20 hrs and at intervals till midnight a lunar corona was seen. At times it was remarkably brilliant. Today Mr. George Philip came up.

August 31st.

Mist or overcast weather all day. Light N by winds or calm. At 5 am. the shadow of the earth was observed. Some difficulty has been found in getting the thermometers to act correctly. Today Mr. W. Bruce who has been here as observer left, having been relieved by Mr. Philip.

1901.

September 1st

114

The barometer rose steadily all day. Fog till 6 a.m. Fine weather after. Towards midnight the sky became cloudless. An almost dead calm prevailed.

September 2nd

Fine weather today. In nearly all the observations the maximum visibility was noted. 76% of the possible sunshine was recorded.

September 3rd

The fine weather continued till 19 hrs, when fog came on. Moderate S.E. winds from 11 a.m. till midnight. Today Messrs Rankin & Miller, accompanied by Mr McKellar came up to see about repairs on observatory.

September 4th

The barometer fell steadily today. S.E. winds prevailed increasing to the velocity of a gale after 21 hrs. Mist till 12 noon when the sky cleared slightly. At 22 hrs the fog came on again.

1901.

September 5th

115

The barometer continued to fall. The wind SE by in direction blew a gale throughout the day. Fog till 8 hrs, cloudy weather till 19 hrs. when fog once more came on.

September 6th

The fall in barometric pressure continues. The temperature has been very steady today only showing a range of 3.3 degrees. The wind continued to blow from SE, from 14 to 18 hrs it subsided slightly but rose again.

September 7th

Today has simply been a repetition of yesterday with the exception that the wind increased in velocity. Thick mist prevailed.

September 8th

The barometer fell till 11 a.m. when it began to rise. The barograph curve for today is very interesting showing some very sudden changes. The wind increased to the velocity of a hurricane and continued

1901.

~~Cont.~~

116

so till noon. Rain fell most of the day.

at 16 hrs the wind fell to an almost dead calm.

At 1 am. the observer on duty had an exciting adventure, being instrumental in saving the lives of a lady and gentleman whom he found lying in a state of exhaustion within a few feet of the first gorge.

September 9th

Mist all day. Light winds chiefly S.W. The temperature was fairly high and steady only showing a range of 4 degrees. Slight showers of rain occurred in early morning.

September 10th

The temperature remained much the same as yesterday. The wind veered round to the W. Towards night heavy showers of rain fell.

September 11th

The barometer rose steadily till 20 hrs, but fell

1901

Cont
 thereafter. The summit was enveloped in
 mist till noon but at that hour it
 cleared and fine weather was experienced
 during the rest of the day. 117

September 12^d.

The barometer remained fairly steady to day but
 fell on the whole. Mist with sharp clear
 intervals about noon. A glory was seen at 11:30 p.m.
 Light winds SEly in morning veering to SW at
 night.

September 13^d.

Mist all day with the exception of a fine clear
 interval from 4 to 10 a.m. During this period the
 sky was cloudless. Light breezes prevailed, at
 7 a.m. the wind backed to the SE.
 To day Mr R. C. Mossman of Edinburgh visited the
 observatory. Fog how and drizzle at 8:30 a.m.

September 14^d.

The barometer rose slightly during the day.
 The temperature remained fairly steady.
 Calm or light SEly airs all day. Mist or
 overcast weather. At 21 hrs. a slight shower
 of rain was experienced.

1901.

September 15th

The barometer fell steadily. Fine weather prevailed.
Calm or light S.E. winds.

118

September 16th

The barometer continues to fall. The temperature is rather lower today. Light to moderate S.E. winds all day. Fine weather till 17 hrs. At this time mist came on.

September 17th

The barometer fell till 16 hrs when it began to rise quickly and regained by midnight its height at 1 am. The temperature rose steadily till 19 hrs. At that hour it stood at 42 degrees. It then fell very suddenly. By midnight it had fallen 11.5 degrees.

September 18th

The barometer and temperature remain fairly steady. S.W. winds. Mist all day.

September 19th

The barometer fell steadily all day. The wind blew from S.W. and reached the velocity of a gale at 3 and 4 a.m. Heavy

1901.

Cont.

119

showers of rain all day.

September 20th

The glass fell till noon, thereafter it rose steadily. The wind shifted overnight to the SE. Heavy showers of rain. Mist with occasional clear intervals. A Rainbow was observed at 16 and 18 hours.

September 21st

The barometer rose steadily. The wind blew from the S or SSE. the whole day. From 13 to 18 hrs it blew a light gale. Fog with short clear intervals.

September 22nd

The barometer continues to rise steadily. The wind still blows from SE. Fog most of the day. A fine clear interval was experienced from 10 to 16 hrs. Glories seen at 9:45 a.m.

September 23rd

The temperature today is rather high. At 21 hrs it reached its maximum of 43° 8'. Moderate SE by winds. Thick mist all day.

1901.

September 24th

120

Barometer rose steadily all day. Temperature very high and steady 39.9 - 44.4. Light S.E. breezes. Lunar Coronae seen at 21, 23, 24 hrs. Today David Gordon arrived to act as cook & Steward.

September 25th

The barometer began to fall at 1 a.m. and continued doing so till Midnight. The temperature is still fairly high. The wind blew almost continuously from S.S.E. The sky was cloudless till 3 a.m. but from then till 21 hrs. fog prevailed. A Lunar Halo was observed towards Midnight.

September 26th

Mist all day with very heavy rain in early hours of morning. Sleet fell between 11 and 12 hrs. The barometer rose till 18 hrs when it began to fall steadily. To day Mr. Bachman the linesman visited the observatory and examined the telephone.

September 27th

Mist with heavy rain all day. Almost two inches of rain fell. The barometer remained steady but was pumping slightly from 4 to 20 hrs. The temperature was very high. At 11 a.m. it reached the maximum of 48.0 and remained at that for four hours. It fell till 19 hrs when it began to rise again.

1901.

September 28th

121

Mist with heavy showers of rain. The barometer rose gradually all day though pumping slightly. The temperature was very high reaching 49° . Squally SWly winds. Today Mr Macdonald came up and Mr George Philip left for Fort William.

September 29th

The barometer continues to rise but slowly. The temperature fell from $45^{\circ}5$ at 1 am to 33° at midnight. Mist with slight showers of rain at intervals. At 23 hrs the sky cleared somewhat and from then till midnight a lunar corona was observed.

September 30th

Fine sunny weather all day. Over seven hours sunshine was recorded. The wind blew from the SW till 14 hrs when it backed to the SE. Lunar Coronae were observed in the morning till 5 am. and again at night about 20 hrs. A solar halo at 9 am. and a log bow & glories about the same time.

1901

122

Oct 1st
Mr. J. Y. Buchanan &
party visited the
Observatory today.

October 1st

Temperature rising steadily all day
(35° - 44°) Mist or fog all day with heavy
showers of rain from 17 Hrs. till midn.

Earth currents in Telephone Cable after 23^{Hrs}
Today Mr. Hugh R. M. Dougall, Telephone clerk left B.N.O.

October 2nd

Clear at 9 Hrs and again from 20^{Hrs}
till midnight. Fog or mist the rest of the day
with heavy showers of rain till 8 Hrs.

October 3rd

Summit clear for a few hours in
early morning, mist thereafter, with
drizzling rain from 7^{Hrs} till 19^{Hrs} then
slight showers of sleet. Lunar corona at 1^{Hrs}

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

At 16^{Hrs} 45^{mins} a large Weasel was seen
going from the Observatory, to the Ordnance
cairn on the summit.

October 4th

Temperature very steady all day (32° - 34°)
Mist with showers of snow, sleet & drizzling
rain throughout.

October 5th

Temperature falling slowly all day.
Heavy showers of rain till 9^{Hrs} slight showers
of snow thereafter. Moderate squally Northwesterly
winds all day.

Barometer pumping slightly.

1901

October 6th

123

Fog all day with squally Northerly winds. Heavy showers of snow fell throughout the day and lay to a depth of four inches at night.

Barometer pumping slightly all day
Temperature of Barometer unsteady at 3^{11^{hrs}}

October 7th

Moderate squally Northerly winds & showers of snow throughout the day.

Some of the hourly measurements of rainfall are doubtful owing to the amount of snow-drift which continued all day. Summit clear at times in forenoon.

Temperature of Barometer unsteady at 3^{11^{hrs} Barometer pumping all day.}

October 8th

Fog or mist most of the day. Clearing a little in forenoon, but fog passing.

Temperature rose steadily ~~at~~ till 19^{hrs} (24°-38°) and fell again to 32° at midt.

Slight showers of snow fell in early morning and drizzling rain in afternoon.

October 9th

till 16^{hrs}
Fog or mist with occasional breaks breaks in forenoon, clear after 16^{hrs} but sky somewhat cloudy till midt. Haze in valleys all evening. Slight showers of snow fell in early morning.

Aurora at 19^{hrs}

Barometer pumping from 1^{hrs} till 6^{hrs}

1901

October 10th

124

Summit clear and air dry at 1 + 2 Hrs
fog or mist the rest of the day, with showers
of rain, sleet, snow and hail at times.

Fog crystals forming at 4 Hrs

The 13th observation was started 3 mins late

October 11th

Temperature very steady all day (29° to 31°)
Fog with occasional breaks till 17th clear,
though cloudy, and air slightly dry thereafter.

October 12th

Temperature rising slightly till 12th
(28° to 35°) falling again to 29° at mid^t.

Summit clear and air dry till 4 Hrs, fog
or mist the rest of the day, with some
heavy showers of rain and snow.

October 13th

Fog till noon, summit clear
thereafter till mid^t, but fog continued
to pass over hill top all evening.

October 14th

The hill top continued clear
and the air slightly dry till 9th, after
which the fog which had been gradually
rising from the valleys enveloped the
summit, and heavy showers of sleet
and snow fell throughout the evening

1901

October 15th

125

Fog at 1st clear but somewhat cloudy the rest of the day. Fog lay in the valleys and over Lochail, Loch-Laggan and the Caledonian canal all morning, breaking up and dispersing after 10^{hrs}. Detached fog on surrounding hills all afternoon.

Several of the West coast lights were seen during the ~~see~~ evening.

Tracks of a Weasel were seen in the fresh snow this morning.

The snow now lies over the hill tops to a depth of six inches.

October 16th

Clear till 12^{hrs}. Fog or mist the rest of the day, with heavy showers of snow. South Easterly winds blew throughout the day, light to moderate in forenoon, increasing in evening and reaching gale force at 17^{hrs} and continuing so till mid^t.

October 17th

Fog or mist with occasional breaks during the day. Some showers of sleet and snow fell in afternoon.

St. Elmo's fire was very brilliant at 20^{hrs}, but only for a few minutes

1901

October 18th

126

Fog with heavy showers of snow throughout the day. The snow lying on the summit reaches a depth of six inches today.

The 20th observation was started 5 mins. late.

October 19th

Fog all day with heavy showers of snow.

Today a Mr. Grierson (London) arrived at the Observatory with a motor Bicycle having rode his cycle most of the way up the hill till the snow was reached (3000 ft.) after which he experienced great difficulty having to drag his bicycle after him through the soft snow.

The depth of snow on summit is from eight to ~~9~~ nine inches, while the wreath near the first gorge is from two to three feet. deep

October 20th

Fog or mist all day with showers of snow and a drizzling rain. Glazed frost forming in evening. The temperature was very steady throughout the day (28°-31°).

1901

October 21st

127

Summit clear and sky almost cloudless after 3⁴⁵, becoming more or less cloudy during the day and overcast in the evening. Thick fog lay over the surrounding hill-tops all day, rising gradually and enveloping the "Ben" at 21⁴⁵ remaining so the rest of the day. Fog crystals began forming at mid^t.

At 7⁴⁵ 25 min a Stevenson screen (small pattern) containing dry 1392449, Wet 1392450, Min 1108531^A was put out on ladder stand N° 2 and the temperature readings were taken there after 8⁴⁵.

October 22nd

Clear at 7⁴⁵ + 8⁴⁵, fog the rest of the day. Some heavy showers of snow fell in early morning.

A brilliant display of St. Elmo's fire was observed at 5⁴⁵, while a shower of snow was falling.

October 23rd

Fog till 20⁴⁵; clear and sky cloudless thereafter, with thick fog all round + passing Lunar coronae seen at 21⁴⁵ + 23⁴⁵.

1901 October 24th

128

Clear more or less till 7⁴⁵, when fog which had been rising gradually from the surrounding valleys enveloped and continued so the rest of the day. Lunar coronae seen between 1⁴⁵ & 2⁴⁵. Some showers of snow fell in forenoon and again in evening.

October 25th

Fog with occasional showers of snow till 22⁴⁵ when the fog sank below the level of the summit, and the sky became cloudless, the air remained saturated till mid^t due to a thin fog passing over hill-top.

Lunar coronae seen at 23⁴⁵ & mid^t.

October 26th

Clear and air dry till 8⁴⁵ fog or mist thereafter. Temperature rose steadily all day 29°-36°. Showers of rain fell from 20⁴⁵ till midnight.

Thermometer box changed at 0¹⁵ am. Dry 535541 & wet 535542 and the same min (1105531⁴⁵) put out. Height above snow 48 inches. The depth of snow at 13⁴⁵ measured at Post A was 7 inches.

1901

October 27th

129

Mist and strong squally west or south-westly winds, with continuous drizzling rain throughout the day.

The Barometer remained steady while the thermometer rose steadily from $36^{\circ}7$ at 1st to $41^{\circ}4$ at 19th falling slightly thereafter till mid^t ($39^{\circ}5$).

The snow on the hill-top is rapidly clearing away.

Barometer pumping slightly most of the day.

October 28th

Mist and continuous drizzling rain. The barometer fell slightly in forenoon, remained steady during the ~~day~~ afternoon, and rose again at night, while the temperature continued high $39^{\circ}-43^{\circ}$ till 21st falling rapidly thereafter till mid-night (32°).

Strong squally westerly winds blew throughout the day, veering to north and decreasing in force after 19th.

The snow, with the exception of a few heavy wreaths, has disappeared off the hill top.

Barometer pumping slightly in forenoon.

1901 October 29th

130

Mist with slight showers of snow till 4^{hrs}. Summit clear but sky overcast the rest of the day, till 19^{hrs}, when the clouds broke up and at midnight the sky was almost cloudless. Temperature fell steadily during the day, and at times the air was very dry. Humidity being as low as 39% at 21^{hrs}. Large banks of fog lay over the surrounding hills throughout the day, breaking up gradually in the evening, till at mid- only small patches of detached fog on the hills to East & South, remained. Lunar halo at 20^{hrs}. At 16^{hrs} a number of snow-butterflies were seen flying about the observatory.

Barometer pumping from 1^{hr} till 10^{hrs}

October 30th

The hill-top remained clear and the sky almost cloudless till 3^{hrs}. At 1^{hr} & 2^{hrs} haze was forming in the surrounding valleys and at 3^{hrs} fog was rising from Glen Nevis and passing over the summit. After 4^{hrs} the Ben was enveloped in a thin fog and continued so till midnight.

Glories were observed at 10^{hrs} and lunar coronae at 23^{hrs} & midnight.

Fog crystals forming all day.

1901

October 31st

131

About 20 visitors ascended Ben Nevis
 during the month of October.

Summit clear and sky cloudless till
 4th during which time banks of fog lay
 over the surrounding hills, passing over the
 "Ben" occasionally. At 5th the Ben became
 enveloped in a thin fog, and remained
 so till noon when the sky again became
 cloudless, and the air dry. During the
 evening patches of fog hung about the
 hill tops to the east, and a thin haze
 lay in the valleys.

A moderate south-easterly breeze blew
 throughout the day.

Lunar coronae were observed at 1th,
 3th & 6th.

November 1st

Sky absolutely cloudless all
 day. Small patches of fog lay over the
 hills to east and thin haze in the
 valleys all round. The humidity
 ranged from 50 to 70 per cent.

November 2nd

The air continued dry and the sky
 practically cloudless till 15th. Thick haze
 lay in valleys all morning, and large
 banks of cloud were seen rising to W. & S.W.
 & south-west after 15th, and at 16th the
 Ben was enveloped in fog, and remained so
 for the rest of the day.

1901

November 3rd

132

Mist till 8^{hrs} clear though somewhat cloudy till 19^{hrs} and cloudless thereafter. The thermometer has been high all day (34° to 39°), and while the hill-top was clear of fog or mist the air was slightly dry. Thick haze lay in the surrounding valleys throughout the day.

A great number of snow-bunting were flying about the Observatory all day.

November
October 4th

Summit clear most of the day with fog all round to West, south and east, and thick haze to north.

Both the barometer and thermometer continue to be high and steady.

November
October 5th

Clear and air dry till 9^{hrs} fog or mist, (with occasional breaks in afternoon) thereafter. Pressure and temperature were high all day, the range of the latter being 33° to 39° .

November
October 6th

Mist all day with slight showers of rain in the forenoon.

At night the mist became very thin, and at midnight the sky appeared to be almost cloudless.

1901

November 7th

133

Summit clear and air, for the most part, dry till 14^{11⁴⁵}, while thick fog lay over the surrounding hills to about 4000 ft. and was gradually rising all forenoon. After 15^{11⁴⁵} the Ben was enveloped in a thick mist, and slight drizzling rain fell till midnight.

Today Mr. Watt arrived at the Observatory and Mr. Marr went down to Fort Williams.

November 8th

Mist and slight drizzling rain with light squally Northwesterly winds.

The barometer fell slightly during the day and the temperature remained very steady (31°0 to 33°4)

November 9th

Mist and drizzling rain all day

November 10th

Mist all day with slight drizzling rain till 20^{11⁴⁵}. The wind throughout the day was light, westerly in forenoon, veering to N + NW in evening.

1901

November 11th

134

Fog or mist all day except at 19 & 20 Hrs when sky was almost cloudless but fog was passing and air was saturated. Slight drizzling rain and showers of snow fell during the day.

Glazed frost was noted at 7 & 8 Hrs.

November 12th

Fog with occasional clear intervals in evening, and showers of snow in forenoon. Squally North-easterly winds blew throughout the day, light till 5 Hrs increasing in force thereafter, and blowing a light gale at 10 Hrs continuing so till midnight.

At 18 Hrs a strange light was seen at Corroon on the W. Highland Railway, and on communicating with the lower Observatory it was at found to be a Bonfire lit on the occasion of the marriage of Sir John Stirling Maxwell.

Today Mr W. Bee arrived at the Obs., and Mr Watt left.

November 13th

Summit clear & sky cloudy till 7 Hrs fog the rest of the day. Showers of snow fell from 9 Hrs till midnight.

Barometer pumping till 6 Hrs

1901

November 14th

135

Temperature low and very steady (16°:1 to 17°:4) throughout the day. Hill top clearing slightly in afternoon & again at night after 1st a mouse was caught in the passage leading to visitors room.

November 15th

Summit clear and sky slightly clouded till noon, cloudless thereafter. Thick fog lay over the surrounding hills and was passing over the Ben till 5^{hrs} gradually sinking and dispersing in the afternoon. Several of the West coast lights were seen from 18^{hrs} till midnight.

After 8^{hrs} the thermometers were changed, dry^{no} 1392449 wet^{no} 1392450 put out.

November 16th

Clear till 6^{hrs} and again at 9 & 10^{hrs} fog the rest of the day. Some slight showers of snow fell during the afternoon.

November 17th

Temperature rising slowly all day (26°:5 to 32°:4) Fog or mist all day. Heavy showers of snow, sleet and rain fell during the day.

1901

November 18th

136

Mist and continuous heavy rain throughout the day.

Barometer falling and temperature rising steadily. Light squally west or North westerly winds. Glazed frost at 5 Hrs. The 8 Hrs observation was started 20 minutes late. (No correction applied to readings)

November 19th

Barometer falling and temperature fairly high and steady till 15 Hrs when pressure rose and the thermometer fell quickly. Mist till 15 Hrs and fog thereafter, with very heavy rain till 16 Hrs and a slight shower of snow between 19 and 20 Hrs. Squally westerly winds blew till 16 Hrs veering to North and moderating in force thereafter.

Barometer pumping till 16 Hrs

November 20th

Fog or mist clearing a little at times in forenoon. Light Northerly winds in forenoon veering to Southeast in afternoon and and to South west at night. Heavy showers of snow fell during the day, the temperature remained very steady till 21 Hrs. after which it rose quickly, and at 22 Hrs. rain was falling. Glazed frost at 22 Hrs.

1901

November 21st

137

Temperature fell steadily $34^{\circ}5$ to $13^{\circ}7$.
 Fog or mist with showers of rain sleet and snow
 till 16^{hrs} clear thereafter and at 21^{hrs} the sky
 was cloudless & continued so till midnight,
 although the air remained saturated due to
 passing fog.

Lunar coronae were observed at 17^{hrs}, 19^{hrs} 21^{hrs}
 and a lunar halo at 18^{hrs}

November 22nd

Clear and sky practically
 cloudless all day. During the forenoon
 there was some detached fog over the
 surrounding hills, and at times passing
 over the Ben. and the air for the most
 part was saturated. This however clear-
 ed away in the evening, and a slight
 haze formed in the valleys.

November 23rd

Cloudless, but somewhat hazy
 till noon, thick fog passing thereafter
 till midnight. Temperature though some-
 what low has been rising slowly and
 the air was slightly dry till 14^{hrs}

Fog lay over the moor of Rannoch and
 Glen more all forenoon, dispersing about
 mid-day. A lunar corona was noted
 at 21^{hrs}

1901

November 24th

138

Fog till 16^h misty and drizzling till midnight. Temperature has been rising steadily all day (21°3 to 32°2), and the wind from being south west during the day veered gradually to North after 21^h.

Fog crystals were forming all forenoon.

November 25th

clear at 11^h fog or mist the rest of the day. Pressure throughout the day has been high and is still rising slightly, while temperature has been fairly steady, but rising tonight. Slight drizzling rain at 23^h and mist.

November 26th

Fog or mist except at 4^h when the hill-top was clear but the sky overcast. Very slight showers of snow, sleet and rain fell during the day.

November 27th

Mist till noon, and fog the rest of the day. Temperature fell slowly (32°4 to 26°5). Slight showers of drizzling rain and sleet fell in the forenoon, and snow in the evening. North Easterly winds blew all day, light in forenoon, but increasing in force and very squally at night.

Barometer pumping from 14^h till mid.

1901

November 28th

139

Fog all day, with slight shower of snow in early morning.

Barometer pumping from 1 till 5^{hrs}

November 29th

Fog or mist. Showers of sleet and drizzling in forenoon and again from 10^{hrs} till midnight

Glazed frost at 5^{hrs} 21^{hrs} and mid^{ts}

November 30th

Temperature 30.1 to 34.8. Mist and drizzling rain all day. Light squally Northerly winds.

The 16^{hrs} observation was started 4 min^s late (no correction applied to readings.)

Only 6 visitors ascended Ben Nevis during November

December 1st

Mist with continuous heavy drizzling rain throughout the day

Temperature 32° to 36°

December 2nd

Temperature fell from 36.6 at 1^{hrs} to 30.3 at 2^{hrs}. Very heavy rain fell till after 1^{hrs}, then heavy showers of snow the rest of the day.

1901

December 3rd

140

Fog till 10^h clear but somewhat cloudy thereafter till 21^h when mist came on. The air for the greater part of the day was very dry, and the humidity was as low as 33% at 15^h.

Thick fog lay over the hills all round except to the east, rising gradually towards evening and at 22^h the hill top was enveloped in mist.

December 4th

Temperature rising slightly. Slight showers of sleet in the evening and drizzling rain tonight.

December 5th

Temperature falling all day (32°4 to 25°0). Some showers of rain fell in early morning and heavy showers of snow fell throughout the rest of the day. Barometer pumping till noon.

December 6th

Moderate squally West or north westerly winds all day, with slight showers of snow in early morning and again at night. From 11^h till 20^h continuous heavy rain fell and between 15^h and 16^h over 6 tenths of an inch fell.

Today Buchanan the lineman arrived at the Observatory and fixed up a new telephone instrument, the old one having been very faulty of late.

1901

December 7th

Fog all day with heavy showers of snow. The observation at 8th was taken 10 mins. Later. Depth of snow at gauge 9 inches. Today Mr. Miller came up and Mr. McBratall went down.

December 8th

Temperature falling all day (27.2 to 18.2) Variable westerly or Northwesterly winds, somewhat squally. Very heavy showers of snow all day.

December 9th

Summit clearing at times in forenoon for a few moments. Temperature has been fairly low all day and steady, range 18.1 to 14.6 . Very squally Northerly winds, accompanied with heavy showers of snow and hail and considerable drift.

Barometer pumping during the day. Today the depth of snow has gone up rapidly there being 23 inches at 15 Hrs. Stevenson Screen (winter pattern) put out today on ladder No 2 at $10^{th} 10^{th}$. Same day wet test out viz 1392449 + 1392450 and Min No 1108351 A put out. Height above snow 41 inches.

December 10th

Fog all day with frequent heavy showers of snow and hail. Squally NE or NE-E winds all day. Temp fairly steady during the day but rising bright strong Earth currents in early morning.

Two horses up today
the last trip of season

1901

December 11th

142

Temp very steady during the day between 21° but falling in the evening to 17°. Fog with showers of snow till 21^{hrs}. Sky cloudless since but thin fog constantly passing over the summit. Thermometer not raised one step up at 11^{hrs}. Height above snow 51 inches

December 12th

Except for a little fog passing over hill-top during the day, the summit has been clear and sky cloudless almost all day. but fog on hills to E & W all day. Temp has been steady and the air slightly dry most of the day. Squally N² or NE² winds strong in the evening and accompanied with considerable drift. Clouds and fog-banks seen at 15^{hrs}. Barometer pumping after 16^{hrs}. The Min at 21^{hrs} was shaken due to the squally winds.

~~Barometer~~ Thermometer not changed at 2:10^{pm} by 535541
 wet 535542 & Min 1108351 A part out. Height above snow not altered

December 13th

by strong squally N² winds all day. Moderating somewhat in force towards midnight. Considerable drift all day.

1901

Cont.

143

The depth of snow which measured 39 inches at gauge yesterday was reduced to 17 inches today. The rain at 21 hrs was found shaken so that lowest hourly reading was used for report tonight. Barometer pumping violently during the day.

December 14th

Fog almost all day with slight showers of snow in forenoon. Slightly N^W to N^E winds. Barometer pumping most of the day.

December 15th

Light breeze all day. Wind in forenoon backing to the SE in the evening. Slight showers of snow since 5^{hrs}.

December 16th

Sky almost cloudless but fog in valleys below all day and rising at times and passing over Summit when it finally settled on hilltop at 23^{hrs}. Light N^W winds during the day backing to W in the evening.

Summit Coronas seen at 17-18 hrs.

Bar changed 2.20 by 1392449 that 1392450 put out. Same rain out. Height above snow not altered.

1901

144

December 17th

Barometer and Temperature falling rather quickly in the evening. Squally Variable winds chiefly N^W. Heavy showers of snow and sleet during the day. Silver thaw at 9.10.13 & 14 hrs. Barometer pumping after 20 hrs

December 18th

Squally N^W winds all day. Barometer low but rising slowly. Temperature low in early morning but rising during the day (13.4 to 21.0). Snowing almost all day. Lunar Coronae seen at 18 hrs

December 19th

Summit clear at times between 7 & 11 hrs but sky apparently almost overcast. Very squally N^W winds accompanied with a good deal of drift. Heavy showers of snow till 3 hrs occasional showers since. Barometer pumping all afternoon

Box changed at 8.25 by 535541 & wet 535542 put out same man out.

December 20th

Strong squally N^W winds till 14^{hrs} veering to ESE since. Sky apparently cloudless most of the day, but great banks of cloud high up all round and this kept continually passing over summit. Feathering fog-crystals forming all evening. Lunar Coronae seen during the evening. Barometer pumping till 11^{hrs}. Box changed 15.15 by wet 1394449 & 50 put out. Same man out. Height not altered

1901

145

December 21st

Fog till 18th Sky cloudless since and air slightly dry. Light to moderate ESE or SE winds all day. Light shower of snow in early morning. Bt changed at 14.15^h by 535541 but 535542 put out. Same train out. Light above snow not noticed.

December 22nd

Sky cloudless till 12th Cloudy with Cir-Cum & Cir-Str. till 23th fog since. Detached fog in valley and thick haze around all day. Air dry most of the day but very dry in forenoon the lowest humidity being 18 at 8th Light SE² winds in forenoon Calm during the rest of day. The Earth's shadow seen at 9th, Lunar Corona at 17th and a Lunar Halo at 18. 19 & 20th

December 23rd

Barometer falling quickly all day with SE² winds increasing in force to a gale in the afternoon but moderating somewhat towards midnight. Summit clear from 3th till 9th and air dry at times, thick fog times. Fog crystals (dark brown in colour) forming all afternoon.

1901

146

December 24th

Barometer low and falling. Light winds all day ESE till 5 hrs NW + N since. Summit clear at 2 hrs but sky almost overcast and fog high up all round. Showers of snow most of the day. This morning the cat caught a mouse

December 25th

Short clear intervals in forenoon. Occasional slight showers of snow during the day. Barometer rising slowly. Temperature rising slowly. range 20.3 to 22.7

December 26th

Fog all day with showers of snow since 7 hrs. Temperature steady between 20 & 22 . Squally variable N² winds all day. Fog crystals forming. Barometer pumping slightly all day

December 27th

Thin fog all day, clearing a little for a few moments at 19 hrs. Occasional slight showers of snow during the day. Light winds all day chiefly N² till 21 hrs backing to W and SW since. Temperature very steady range 21.2 to 18.8 . Fog crystals forming. Lunar coronae seen at 19 hrs

1901

December 28th

147

Temperature very steady till 10^{hrs} rising briskly
 Since range 18.6 to 29.7. Moderate to light S^W
 or S^E winds. Thick fog most of the day with
 slight showers of snow between 10 & 16 Hrs.
 Fog crystals forming all day

December 29th

Summit clear at 2+3 Hrs but sky cloudy and
 fog all round high up and passing at times, fog or
 mist during the rest of the day with showers of snow
 and drizzling rain. In the evening a silver thaw
 all exposed objects being coated with ice. Temp.
 decidedly higher to day and steady range 29.0 to 26.7
 Variable winds and light chiefly N^W. Lunar Corona
 seen at 2+3 Hrs. Ther. Bar changed at 2¹⁵^{hrs}
 by 1392449 but 1392450 put out. Same min out
 height above snow not altered

December 30th

Strong S^E winds till 9^{hrs} at times reaching gale
 force veering to SW thereafter and very squally. Temp
 rising to 32 at 13^{hrs} remaining steady during the rest
 of the day. This is the first time since the 6th that the
 temp has reached the freezing point. Heavy showers
 of snow & sleet hail & rain. Bar pumping most of the day

December 31st

Squally Variable winds chiefly W. Temperature
 steady about 32 till 5^{hrs} falling a little since. Heavy showers
 of rain sleet hail & snow during the day. St Elmos Fire
 heard at 15 Hrs

1902

148

January 1st

Summit clear at 4 hrs but fog all round and passing. Slight showers of snow during the day. Light W. or SW winds till noon backing to SE since and increasing in force to a strong gale, but moderating after 22 hrs. Lunar Corona and fog bow seen at 4 hrs. Today L. C. Mearns accompanied by the Rev. Mr. Redley visited the Observatory.

January 2nd

Mist or fog with showers of snow & drizzling rain. Summit clear and a little sunshine recorded between 12 & 13 hrs. Light W or NW winds in forenoon turning to N in afternoon. One tourist visited the Observatory today.

January 3rd

Temperature all day being at or well above the freezing point from 8 to 18th range 28° to 36° 5'. Mist with heavy drizzling till 9th Variable squally W. winds all day. Frequent flashes of sheet lightning seen during the hour 23 to midnight. Barometer pumping all afternoon.

1902

January 4th

149

Strong squally variable NW² winds accompanied with heavy showers of snow & hail all day. Vivid flashes of (sheet) lightning seen between 0th + 1th. Barometer pumping heavily all day.

January 5th

Summit clear at times 8 + 11^{hrs} and one minute sunshine recorded. Fog or mist during the rest of the day. Temperature rising all afternoon reaching 32° at midnight. Showers of snow in forenoon and sleet and drizzling rain in afternoon. Strong squally N² or NW² winds all day. Barometer pumping all day. Bot changed after the 9 o'clock observation by 535541 & wet 535542 put out. Same min out.

January 6th

Temperature high and steady 30° to 33°. Squally N² winds all day with heavy showers of rain sleet and snow. Barometer pumping. Today H. McKenzie came up with letters etc.

1902

150

January 7th

The temperature has been very steady all day between 31° & 32° with heavy drizzly rain: all exposed objects are thickly coated with ice. Variable squally N^E winds all day.

Barometer pumping most of the day

January 8th

Temperature still continuing high ~~but~~ falling a little during the afternoon but rising again towards night. Heavy showers of rain and sleet. Squally N^E & NW winds backing in afternoon to SW^E. The rain which has fallen during the last few days with the temperature at or below 32° has made the hilltops somewhat difficult to negotiate, the summit being a sheet of ice; although rough, some difficulty was experienced in taking the afternoon observations owing to the slipperiness of the surface.

January 9th

Squally winds all day. S or SW in forenoon owing to N & NW since. Temperature steady about 32° till 9^{am} falling twice to 24° & 2 . Heavy showers of sleet snow and hail. Barometer pumping most of the day

1902

151

January 10th

Summit clear since 20th but sky
overcast or nearly so. Showers of snow till 15th
fair thereafter. Temperature falling all day
range 26.2 to 15.2. Bar changed at 20.20
by 1392449 & wet 1392450 put out. Same min out
Height above snow 41 inches

January 11th

Summit clear most of the day but sky
overcast with Cirro-Cum & Cirro-Str. Temperature
low but steady all day and air slightly dry
from 15th to 22th. Light winds all day
N or NE till 10th veering to SE since. A few
flakes of snow falling at night but
amount not measurable

January 12th

Summit clear at intervals during the day
Slight showers of snow till 2 pm. Temperature low
all day falling to 13.5 at midnight. Light N or NE
winds all day. Bar changed after the 14th
observation. by 535541 & wet 535542 put out
Same minimum out.

1902

January 13th

152

Sky cloudless in early morning and again in the evening but continual thin fog passing. Temperature low and falling all day range $14^{\circ}3$ to $10^{\circ}3$. Light $N^{\frac{1}{2}}E$ or $NE^{\frac{1}{2}}E$ winds or Calm all day. Slight showers of snow in forenoon. The observation at 6th was taken 4 mins late.

Mr Buchanan Telegraph lineman came up today to put telephone in working order which has been very indistinct during last few days. but apparently he did not locate the fault.

January 14th

Very fine all day but cold. Temperature low in forenoon but rising. Sky cloudless except for a little cirrus during the day but in the evening the sky became very cloudy with Cirro-Stratus. At 16th Cum fog seen on hills in distance to W which came slowly creeping up every hour when summit was enveloped at 22th. Wind light and $N^{\frac{1}{2}}E$ in forenoon but backing to SW since. Air dry and clear all day very clear to S+SE in the afternoon. Fog crystals forming all evening.

1902

153

January 15th

Temperature rising quickly till 11^{hrs}
 steady at 31° since. Showers of snow till 3^{hrs}
 drizzling rain since. The silver thaw this
 afternoon has converted the snow on hill tops
 into a moderately smooth sheet of ice making
 walking difficult when off the beaten track

January 16th

Squally N^W winds with drizzling rain
 all day. Temperature still continuing high and
 steady between 31° + 32°. This evening steps were cut
 in the ice from town to Stevenson screen, then on
 to rain gauge and back.

January 17th

Temperature falling slowly all day
 mist or fog all day with drizzling rain till
 7^{hrs} and a shower of snow at 17^{hrs}

January 18th

Fog breaking up for a few minutes
 occasionally during the day, but stay
 dense and a good deal of fog below
 all round. Fog crystals forming all
 afternoon

1902

154

January 19th

Temperature rising all day being above the freezing point in the evening. Showers of snow & sleet, and rain after 18th fully a quarter of an inch each hour being recorded

January 20th

Mist with rain till 9th very heavy in the early morning from 1st till 3rd inclusive the amount registered was 1.026 inches. Sun in it clear since 11th but overcast or almost to with Cirro-Str and at times with fleecy Cirro-Cum moving rapidly from SW & WSW. but fog in valleys most of the day. Temperature high all day and air dry at times since 13th. Lowest humidity 32 p.c at 14th. At 15th a mock sun was seen. at 18 & 22th a Lunar Halo and at 21th Lunar Corona. Bar changed at 13th by 1392449 & wet 1392449 put out. Same Min out Height above snow 36 inches

21st January

Stay overcast and air slightly dry till 2nd, mist with continuous drizzle since. Temperature high being well above the freezing point all day

1902

January 22nd

155

After 4th the mist sank below the summit. Sky somewhat cloudy during the day with Ci & Ci-C moving slowly from about SW. The clouds rose up again in the evening and enveloped summit. Temperature high but unstable all day and air dry at times the lowest humidity being 50 at 7th. Fogbows and glories seen at 9.10. & 11th.

January 23rd

Barometer falling all day quickly in afternoon. Squally with SE winds till 9 pm backing to S and increasing to a moderate gale since. Heavy showers of drizzle sleet & snow.

January 24th

Winds varied from S to W to N after 5th and moderate in force since. Temperature falling all day. Heavy showers of snow till 16th fair thereafter.

January 25th

Temperature low and falling quickly all afternoon. NE winds all day squally in evening. Barometer pumping all afternoon. Thermometers changed after 20th by 535541 & 535542 put out being more easily read at low temperatures.

1902

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January 26th

Fog with slight showers of snow till 10th = clear since but stay cloudy. Temperature low and steady range 6.6 to 9.2. Nth winds all day squally till 13th = some cir above horizon to SW in afternoon. Lunar Halo seen from 21th till midnight inclusive. Barometer pumping in forenoon.

January 27th

Stay overcast with Cir-S + Cir-C till 11th. Fog then after with slight showers of snow. Temperature low in early morning but rising during the day. Air very dry at times in the forenoon the lowest humidity being 2.6 at 9th. Air very clear especially so to S + SW. A Lunar Halo seen at 1.2. + 3th. Today L.C. man came up and W^m Bee went down to L.L.O.

January 28th

Short clear intervals during the day with occasional slight showers of snow in forenoon. Temperature falling all day.

1902

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January 29th

Fog on cloudy sky with slight showers of snow till 16th. Cloudless since. Air saturated all day except at 2 + 3th. Temperature low and fairly steady. Barometer rising briskly all day. Bot changed at 5:15^{pm} but same by sheet put out of air by 5355 41742 after having been thrown. The above set being more easily read at low temperatures

January 30th

The air has been exceptionally dry and clear since 4th. The lowest humidity being 14 at 21th. The sky has been cloudless all day except for a little Cirrus which appeared to be moving slowly from N. A little fog on hills to E + SE in early morning and near Lochiel during the day. Light NE winds till 7^{pm} turning to E + SE since. The Cirrus seen at 5^{pm} was very fine being ribbed and resembling the shape of an opened fan. (Sketch N winds) Like the following sketch.



about 7° above horizon

1902

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January 31st

Pressure extraordinary high all day.
The reading at 23rd viz 26.258 inches is the highest
recorded at this Observatory being 0.003 higher
than that recorded in January 1896.

The air has been exceptionally dry all day
the lowest humidity being 11 at 17^{hr}, while
the thermometer for the day comes out about 22
Dry cloudless and air very clear all day
A little fog in valley to SE in early morning
and over Lochail and Lochlochy during the
day. Light to moderate SE^{ly} winds backing
to ESE in the evening. Surface draft
all afternoon.

Three tourists visited the Observatory during
the month.

1902

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February 1st

Temperatures very high being well above the freezing point since 9⁴⁰. Air very clear and dry, the humidity ranging from 12 to 53. Sky cloudless down to horizon all day. Barometer still very high but falling slowly. Strong winds all day ESE² in forenoon backing to NE since and very squally. Considerable surface drift all afternoon.

February 2nd

Another very fine day, the temperature high reaching 37.1 in early morning and remaining high during the rest of the day. The air has been very dry all day, the mean humidity being about 39. A little Cirrus in sky in forenoon but clearing away in the afternoon. Strong squally NE² & ENE² winds all day. Fog below all round most of the day on which glaucis were seen in afternoon. Barometer pumping all day.

February 3rd

Sky cloudless but fog all round and passing at times during the day. Temperature although high has been very unsteady and decidedly

1902

Cont.

- lower than that of the past few days
 Squally NE^{ly} or ENE^{ly} winds all day. Lower
 Coronas seen at 6th and Gloria during
 the day. Barometer pumping in forenoon

February 4th

Sky cloudless but fog below all round
 and at times rising up and enveloping
 hilltop during the day. Light ESE^{ly} air on
 Coruna till 13 hrs 14th or 15th breezes from
 Gloria seen at 13 hrs

February 5th

Sky cloudless. till 6th fog since a little
 Cir-C above horizon to 6th at 6th light SE^{ly}
 breeze till 9th turning to SE then after

February 6th

Showers of snow during the day
 Summit clear at times in the evening and sky
 apparently cloudless

February 7th

Summit clear after 7th but sky slightly clouded
 during the rest of the day with Cirrus. Air very dry
 at times the lowest humidity being 37 at 21th
 Temperature low & falling all day. range 14.8 to 10.3. Aurora
 seen at 21 & 22th but not very bright

1902

February 8th

Sky cloudy or overcast with Ci + Cu-s
till 16th moving from N and apparently very rapid
fog since with showers of snow. Air very clear
and dry, lowest humidity 18 at 2^{PM}
Today extra joint was put up on ladder A

February 9th

Summit clear from 15 to 17th and sky
nearly cloudless. Great banks of fog on surround-
ing hills and frequently passing over hilltop
occasional slight showers of snow during
the day. Bar changed at 10:15 same
day wet Bulbs put out again after being
thawed. Height above snow 56 inches

February 10th

Temperature ^{low} and steady range 11:4 to 14:2
Summit clear frequently during the forenoon
and sky apparently cloudless but fog hanging
about the lower hills around. Air Sat all day

February 11th

Clear for a few hours during the
day, but the air remained saturated due
to passing fog. Showers of snow fell

cont^d

in early morning and again after 162
18 Hrs. The thermometer box was changed
after 9 Hrs (height above snow not altered)

No communication could be had
with the lower Observatory or Post-office
after 18 Hrs, and the daily weather
report could not be sent.

Today Mr Robt H. Macdonnell arrived
at the Observatory and Mr Miller
went down to Fort William.

Mr R. C. Mossman visited the obs.
today.

February 12th

Heavy showers of snow till 6^{hrs}
and fair, though for the most part foggy
the rest of the day.

The thermometer box was changed after
19^{hrs} (height above snow not altered).

Lunar corona at 19^{hrs}

February 13th

Fog from 3^{hrs} till 6^{hrs}. clear and for the
most part cloudless the rest of the day.

During the forenoon fog lay over Lochail dispersing
after 13^{hrs}. Thermometer box changed at 8^h 20^m

February 14th

Fog and heavy showers of snow till noon, clear
till 22^{hrs} when fog came on again. The hourly measure-
ments of rainfall are doubtful owing to heavy
snow-drifting all forenoon. Ther. box changed: 10^h 15^m

1902

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February 15th

clear and somewhat cloudy from 10^h till 16^h, fog the rest of the day, with heavy showers of snow after 21^h.

Thermometer box changed 12^h 15^m

February 16th

Fog till 11^h after which the hill-top cleared, and the air became dry, humidity ranging from 60 to 33 per. cent. During the evening the sky presented a very threatening appearance, and huge masses of fog hung over the surrounding hills. After 21^h the Ben was again enveloped. Heavy showers of snow fell till 4^h. Strong squally south or south-westerly wind blew throughout the day.

1902 February 14th

164

Fog till 19^{hrs} after which the ~~sky~~ ^{Hill-top} cleared and the sky was partly covered with cirrus or cirro-stratus. A lunar halo was observed from 20^{hrs} till midⁿ (incl) and a lunar corona at 19^{hrs}

Thermometer box changed at 20^{hrs} 15^{min}

February 18th

Sky partly covered with cirrus, cirro-stratus and cirro-cumulus till 14^{hrs} then fog. Thick fog lay all round in forenoon, sinking gradually and becoming more detached towards evening. after 13^{hrs} thick haze lay in valleys, and cumulus formed over horizon to East. Lunar halo at 1^{hrs} and a solar halo at 15^{hrs}

February 19th

Fog all day, very dense in the evening. Lunar corona at 2^{hrs}. Fog-crystals of a light brown colour forming all day.

February 20th

Fog off & on all day. The top of the fog appeared to be about 4400 ft level and rising after 19^{hrs} enveloped the Ben. Showers of snow after 21^{hrs}

Glories observed at noon.

Thermometer box changed at 7^{hrs} 15^{min}
dry 53.5 41
wet — 42 put out

1902

February 21st

Fog all day with light southerly winds.

February 22nd

Thick fog all day. Barometer falling slowly. Temperature throughout the day has been fairly high $25^{\circ}4$ to $31^{\circ}5$. Some slight showers of snow fell in forenoon.

February 23rd

Fog or mist all day. Temperature rising steadily all day 26° to 33° . Moderate (south or southeasterly) winds increasing to a fresh breeze in evening.

February 24th

Temperature high but falling slowly (35° to 31°) slight showers of rain and sleet fell during the day.

February 25th

Fog or mist except at 23^{hrs} when the summit cleared for a few minutes only.

Temperature high and very steady (29° to 32°).

February 26th

Strong south-easterly wind all day increasing to gale force after 16^{hrs} and blowing steadily thereafter till mid^t.

The Ben was clear from 8^{hrs} till 13^{hrs} and the air was slightly dry at times. Temperature

1902

Cont^d

fell from $26^{\circ} 4'$ at 1^{hr} to $17^{\circ} 4'$ at mid^{night} 166

Thermometer box changed at 8^{hr} 15^{min} to 1392449
Net 1392450 and the same min (1108531^A) put out.

Barometer pumping at 15 + 16^{hr} and again
from 20^{hr} till mid^{night}

February 27th

Fog all day. South-easterly gale
continued, with a velocity varying from
70 to 90 miles per hour till 14 Hrs, ~~not~~ backing
to East-south-east and moderating in
force to that of a strong breeze thereafter.

Barometer pumping all day.

February 28th

Fog with slight showers of snow
in afternoon. Light to moderate South-
: Easterly winds all day.

H. Buchanan telegraph linesman
came up today and put up a new
lightning conductor.

Only one visitor ascended Bennevis
in February

Barometer N^o 1385 has been in use throughout the year; N^o 1252 being kept in reserve.

Thermometers; Dry bulbs 535541 & 1392449; wet bulbs 535542 & 1392450 were in regular use.

Max (-) & min 116918 were used in the large screen, and min 1108531^A in the small screen.

From June 3rd till Dec^r 9th inclusive the thermometers were exposed in the large Stevenson screen, and during the rest of the year in the small pattern on ladder stand N^o 2.

Richard's Barograph was in use all the year, and also the Campbell Stokes Sunshine recorder.

The Staphanome was largely used in Spring.

Hilgers pocket Spectroscope was in use throughout.

Neither the Robinson Anemometer nor the large Dust counter have been in working order.

The same pair of 5 inch Rain gauges have been in use Summer & Winter.

The depth of Snow has been measured

at post A as usual.

The Anemograph clock continues the standard clock for time at the Observatory and is checked by time signal from Fort William Post-office at 10 Hrs. daily.

Photographs were taken occasionally with the Observatory Camera.

Communication with the Low Level Observatory and Fort William Post-office has been satisfactorily maintained by Telephone.

In very stormy weather the Lower thermometer was used for hourly observation.

The Staff of the Observatory consists of:— A. Rankin, J. Miller, R. H. Macdonald, J. Collicie Marr, W. Bell and D. Gordon.

Charles Andersson was on staff till May when he was relieved by Macdonald, & C. Clark^{on} till July.

The following have assisted at various times viz. J. Affleck, A. Watt, R. Aitken, W. Bruce & G. Philip, while W. Landale, W. Simpson, J. Kempston and J. Crombie filled gaps during summers.

H. McKenzie acted as road-man & ticket collector, from March till October

H. R. Macdonnell acted as Telephone clerk from 1st July till 30th Sept.

The thermometer ladders and boxes were repaired and painted in September, and the Observatory windows were repaired at the same time.

March 3rd

March 4th

Temperature rising (27°-32°) snow and drifting rain during the day.

March 5th

Day is mist, with drifting rain in forenoon.

March 6th

Temperature fairly high & steady (27°-32°). Slight showers of snow and drifting rain throughout the day.

Blizzard at 5 and 6 PM.

March 7th

Mist all day. Slight showers of snow all PM and drifting rain thereafter till 2 PM. Light snow & mist till 17 PM, rising to snow thereafter. Blizzard at 2 PM.

1902

March 1st

170

Clear for a few hours in forenoon, but fog passing, very slight showers of snow fell at night. A fresh south or south-easterly breeze blew throughout the day.

Thermometer box changed at 11^h 15^{min} and dry 53 55 41 Wet 53 55 42 and same min. put out.

At 11^h 2 Ravens were seen at N. cliff.

March 2nd

"Fog or mist, with heavy showers of snow in forenoon"

March 3rd

Temperature rising (27°-32°) snow, sleet and drizzling rain during the day.

March 4th

"Fog or mist, with drizzling rain in forenoon."

March 5th

Temperature fairly high & steady (28°-32°). Slight showers of snow and drizzling rain throughout the day.

Glazed frost at 5 and 6 Hrs.

March 6th

Mist all day. Slight showers of snow till 9 Hrs and drizzling rain thereafter till 23^h. Light North-westerly winds till 17 Hrs. veering to north thereafter. Glazed frost at 2 Hrs.

1902

March 7th

171

Mist till 5 Hrs, and again after 21^{hrs} till midnight. After 5 Hrs. the mist fell below the level of the Ben, and lay over the surrounding hills, the sky was slightly covered with cirro-cumulus and cirro-stratus, becoming overcast in the evening. Slight showers of snow fell after 20^{hrs} and the mist rose from the valleys and enshrouded the Ben at 22^{hrs}.

Thermometer box changed $\frac{7}{8}$ at 6^h 15^m and day 1392449 Wet 1392450 and same min. put out

March 8th

Fog or mist with heavy showers of snow throughout the day. Temp: steady (28° to 32°) Glazed frost at 1^{hr}

Barometer pumping from 18^{hrs} till mid^t

March 9th

Summit clear from 10 till 13^{hrs} (incl) but fog or mist the rest of the day.

Heavy drizzling rain fell from 18^{hrs} till mid^t

Thermometer box changed at 10^h 15^m Dry 535541 Wet 535542 put out

A Snow-bunting was seen on summit after 11^{hrs}

March 10th

Fog or mist with occasional breaks till 18^{hrs} after which the hill-top continued clear & the sky cloudless till mid^t, while the air became very dry, the humidity falling as low as 33% at 20^{hrs}. At 5^h 15^m the Thermometer box was changed and again at 19^h 15^m Dry 1392449 put out. Height above Wet 1392450

1902

cont^d

172

snow not altered.

Two ravens were seen on the hill-top after 17^{hrs}, several of the W. coast lights seen at midⁿ.

March 11th

Fog, with occasional breaks in the forenoon. Cloris (double ring) observed at 8^{hrs}.

While one of the observers was out walking this evening, he saw a Deer on the hill-side to the south of "Buchan's Well", and about the same time a Wild goat was seen on the "Cañon deary" about the same height.

The 15^{hrs} observation was started at 15^h 3^m (no correction applied to readings)

March 12th

Fog all day, and heavy showers of snow after 12^{hrs}. Fog crystals forming in early morning. Barometer pumping 16^{hrs} to 22^{hrs}.

St Elmo's fire seen at midnight.

March 13th

The hill-top was clear and the air dry for a few hours in forenoon, but heavy showers of snow and hail fell during the evening. Thermometer box changed at 3^h 15^m.

Dry 53° 55° 41° and same min put out.
Wet — 42°

Barometer pumping slightly all day.

1902

March 14th

173

Fog all day with heavy showers of snow in forenoon and again in evening.

Moderate squally westerly winds blew throughout the day veering to North after 21 Hrs.

Barometer pumping slightly till 17 Hrs.

March 15th

Snowing and drifting all day.

Light squally North-easterly winds.

Barometer pumping from 10 Hrs till midth

March 16th

Fog till 3 Hrs then the hill-top cleared, and the air became very dry, the humidity being as low as 24 per cent at 6 Hrs. The sky was partly clouded with cirro-stratus and cirro-cumulus, and fog lay over the surrounding hills all forenoon.

After 16 Hrs the fog rose and enveloped the summit, and drizzling rain fell till 23 Hrs.

Glories at 8 Hrs and a solar halo at 15 Hrs.

Thermometer box changed at 4th 15th Dry 1392449
and same min put out. Wet — 50

March 17th

Mist and continuous drizzling rain.

Temperature high and steady (33.5 to 35.5)

1902

March 18th

174

Squally westerly winds all day, with showers of rain in morning and snow in evening. Temperature falling slowly all day ($33^{\circ}3$ to $24^{\circ}6$)

Barometer pumping slightly all day.

March 19th

Snowing heavily all day. Moderate squally west or North-westerly winds

Barometer pumping slightly all day.

March 20th

Heavy showers of snow during the day. At 3⁴⁵ and again at 12⁴⁵ the summit was clear but sky overcast.

The thermometer box was changed at 12⁴⁵-15^m and the same thermometers exposed.

The 3⁴⁵ observation was started 4 minutes late. (no correction applied).

A lunar corona was noted at mid^t

March 21st

Fog and slight showers of snow all day.

March 22nd

Slight showers of snow in early morning and again in afternoon.

The hill-top was clear at 4 and 8 hours. Thermometer box changed at 7⁴⁵-15^m and sig 535541 W & 535542 & same min put out.

1902

March 23rd

175

Fog and showers of snow till 22^{hrs}.
summit clear and sky slightly clouded
with cumulus thereafter.

Temperature has been low throughout the
day, and falling, range 21.6 to 14.8 .

The thermometer box was changed at mid^t.
Dry 1392449 put out, height above snow not
altered.

The depth of snow measured at post
A. at 15^{hrs} today was 52 inches being the
highest this winter.

Lunar coronas at 23^{hrs} and mid^t

March 24th

Clear and sunny all day. The
air was saturated all forenoon, but
was slightly dry thereafter. For a few
hours in forenoon fog lay in the valleys
passing over the summit occasionally, and
during the evening thick haze lay all round.

The thermometer box was changed at
1^{hr} 15^m. Dry 535541 put out, these were again
changed after 12^{hrs} and Dry 1392449
Wet ---50 put out
in their stead.

Lunar corona noted at 1^{hr} 14^m Glories
at 7 and 10^{hrs} and a solar halo at 15^{hrs} +
16^{hrs}

1902 March 25th

176

Summit clear and air dry till 10^{hrs}. Fog and showers of snow the rest of the day.

Fog lay among hills and haze in valleys in the early morning. Light Northerly airs all day.

March 26th

Fog with occasional sunny blinks. Slight showers of snow fell in the forenoon.

The thermometer box was changed at 14^{hrs} 15^m.
Dry 535541
Wet 535542 put out. The "box" was again changed at 16^{hrs} 15^m, height above snow 40 inches. at 15^{hrs} the depth of snow measured at Post A was 56 inches.

March 27th

Slight showers of snow till 8^{hrs}. The hill-top was clearing occasionally in the afternoon, and after 19^{hrs} the sky became cloudless and the air dry. The temperature rose steadily till 11^{hrs} but fell thereafter. at midnight the air was very dry, the humidity being as low as 17 per-cent.

The thermometer box was changed at 19^{hrs} 10^m.
Dry 1392449 and same min (1108531A) put out
Wet 1392450

Today six mountaineers ascended the Ben by "Corrie Lees".

Raven seen at 16^{hrs}

1902

March 28th

177

The summit was clear and the air exceptionally dry till 6^{hrs}. At 1^{hr} the humidity of the air was as low as 8%.

There was a thick band of haze over the western horizon and at 5^{hrs} the sky became overcast with stratus cloud. at 6^{hrs} there was a large shower-cloud over Lochail and at 7^{hrs} the Ben was enveloped in fog.

Showers of snow fell in the evening.

A Lunar halo was noted at 3^{hrs}

The midnight observation was started 5 minutes late (no correction applied to readings)

March 29th

Fog with occasional breaks during the evening.

Heavy showers of snow fell till 16^{hrs} at 15^{hrs} the thermometer box was raised from 38 to 62 inches above snow.

Light Northwesterly winds all day.

March 30th

Summit clear most of the day, and air slightly dry.

Light Northwesterly winds in forenoon veering to SE and S at night. Showers of snow at 22 and 23^{hrs} Lunas Corona at 3^{hrs}; 6 snow buntings and a raven seen in afternoon

Today 2 mountaineers visited the Observatory

1902

March 31st

178

Fog or mist with heavy showers of snow, and light squally NW^{ly} winds throughout the day.

Today M^r Bell came up, and M^r Marr went down to the low level.

Eight visitors ascended Ben Nevis in March

April 1st

Squally North^{ly} winds, and heavy showers of snow all day.

at 21 Hrs the minimum read shaken.

Barometer pumping slightly all day.

April 2nd

Thin fog in forenoon. at 6 Hrs the hill-top was clear for a few minutes but fog was passing.

The wind from being North in forenoon and light in force, backed to West and south west in the afternoon, becoming much stronger and squally.

Continuous heavy snow & snow-drift after 15 Hrs

Barometer pumping from 18 Hrs till midnight.

The minimum in box was shaken and the reading lost.

1902

April 3rd

179

Fog and heavy snow till 6^{14^h}, thereafter the summit cleared, and the sky was somewhat clouded till 18^{14^h} after which the hill-top again became enveloped in fog, and at midnight snow was falling.

West or North-westerly winds all day morning moderate in force and squally in early but light thereafter.

The thermometer box was changed after 8^{14^h} Dry 1392449 and same min. put out, Wet 1392450 (height above snow not altered).

The depth of snow measured at 15^{14^h} today was 62 inches

Barometer pumping slightly till 4^{14^h}

April 4th

Fog with occasional breaks and showers of snow during the day

The thermometer box was changed at 11^{14^h} 15^{14^h} Dry 535541 put out, these were Wet 535542

again changed after 17^{14^h} and 18^{14^h} Dry 1392449 put out in their stead Wet 1392450

height above ground not altered.

Barometer pumping 3^{14^h} till 9^{14^h} (incl)

1902 April 5th

180

Fog "off and on" all day.

While the summit was clear the sky was for the most part cloudless, but thick fog lay over the surrounding hills passing over summit most of the day.

Some slight showers of snow fell in the early evening.

The thermometer box was changed at 2^h 15^{mins} Dry 535541 Wet — 42 put out, the thermo's were again changed after 9^h and after 13^h. At 21 Hrs the box was again changed and Dry 1392449 Wet — 50 put out.

April 6th

Clear all day except for occasional passing fog in forenoon.

Cumulus - fog lay among hills all forenoon and at times was flowing over the Ben.

The air was saturated till 9^h, but after 9^h it continued slightly dry till midt.

From 19^h till midt the sky was cloudless.

Thermometer box changed at 12^h 15^{mins} and Dry 535541 Wet 535542 put out.

April 7th

sky covered with stratus or Cumulo-stratus from 5^h till 18^h cloudless the rest of the day. Thick haze lay all round all day. The thermometer box was changed at 6^h 15^m Dry 1392449 Wet — 50 put out. Air slightly dry all day.

1902

April 8th

181

Summit clear and air dry all day. In the early morning and again at night the sky was cloudless, but during the day it was slightly clouded.

Very thick haze in valleys all day. Light SSE² winds in forenoon, almost calm all evening. At 22 Hrs heather was seen burning in valleys to N + NW.

April 9th

Very hazy all day. Fog forming among hills during evening and passing over the hill-top occasionally. Slight showers of snow 17 to 18 Hrs.

April 10th

Cloudless till 6 Hrs somewhat cloudy the rest of the day. Air very dry all day except for a few hours in evening when fog was passing. Slight haze round horizon all day.

Heather burning in the surrounding valleys throughout the day.

After 19 Hrs thermometers Dry 1392449 were taken in and Wet 1392450 Dry 535541 and Wet 535542 put out in their stead.

1902

April 11th

182

The summit was clear and the ~~sky~~ air dry till 4⁴⁵ after which fog came on, and some showers of snow fell during the day.

The wind from being Northerly in the early morning backed to South East by noon and increased in force from a light to a strong breeze.

Temperature low and somewhat steady range 19° to 24°.

April 12th

Fog with occasional breaks in the evening. Slight showers of snow fell in the forenoon.

After 14⁴⁵ several Snow-buntings were seen flying about the cliffs.

April 13th

Clearing a little in early morning and again about mid-day.

Heavy showers of snow fell after 15⁴⁵.
St Elmo's fire noted at 23⁴⁵.

Thermometer box changed at 2¹⁵ 15⁴⁵ 277 1392449
put out. (Height above snow not altered.)

1902

April 14th

183

Slight showers of snow in early morning. After 9^{AM} the hill-top cleared and the sky was somewhat cloudy and the air dry the rest of the day.

Heater burning in valleys all evening. The thermometer box was changed at 12⁰⁰ 15⁰⁰. Dry 535521 Wet 535522 put out. (Height above snow not altered)

April 15th

Cloudy sky and fog till 9^{AM}. Sky cloudless at times since. Thick haze below all day. Temperatures decidedly higher today being at or above 32° most of the afternoon. Earth warm in early morning. Thermometer changed at 10^{AM}. Dry 1392449 + Wet 1392450 put out. Today Mr. J. Wadsworth came up and R. McFoyall went down; also two tourists visited Observatory.

April 16th

Fog off and on Summit with occasional short sunny intervals during the day. Some Cir and Cir-S on sky in the evening moving slowly from the S^E.

The tourist visited the Observatory today.

1902

April 17th

Cloudy sky till 5 hrs. fog since. Air slightly dry at 1+2 hrs. Slight showers of snow in forenoon. Lunar Coronae seen after 21^{hrs}. Temperature lower today but fairly steady.

April 18th

Summit clear since 11^{hrs} and in dry. Sky very cloudy and haze below in afternoon. Light to moderate breezes all day. Chiefly SW till 12^{hrs} backing to SE since. Heather burning in valleys all afternoon. A fly seen on snow on Summit and a Raven on Plateau of Storms. Bot changed after 3^{hrs} by 535541 + bot 535542 put out. Same run out.

April 19th

SE^{ly} gale most of the day. Temperature high and steady. Summit clear till 5^{hrs} and again after 19^{hrs} but sky cloudy. Showers of hail and drizzle in the afternoon. At 21^{hrs} Min found shaken due to strong winds. Thermometer changed after 20 hrs by 1392449 and bot 1392450 put out.

April 20th

SE^{ly} gale continued till 13^{hrs} moderating thereafter. Showers of hail till 5^{hrs} and drizzling rain after 22^{hrs}. Summit clear from 17 till 20 hrs but sky almost overcast. Thermometer changed after 20^{hrs} by 535541 + bot 535542 put out.

1902.

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April 21st

Temperature high and steady (34.7 to 34.1)
 Wet with occasional slight showers of sleet
 and drizzling rain

April 22nd

Strong SE² gale all day at times
 reaching hurricane force. Moderating
 somewhat after 22^{hrs}. The mean wind force
 for the 24 hours being $8.5 = 72$ miles per hour.
 Temperature high all day with very ^{heavy} rain.
 Considerable ice surface drift during the day.
 Snow on Summit thawing rapidly all day
 and parts of the office roof being entirely
 clear. Depth of snow today 52 inches having
 thawed 6 inches since yesterday. Barometer
 falling rapidly and pumping heavily during
 the day but rising a little in the evening.
 Thermometer ~~low~~ lowered one step at 17 hrs.
 Height above snow 43 inches. Min at 21 hrs.
 Shaken. The min for weather report tonight being
 taken from the hourly readings.

April 23rd

SE² winds all day blowing a moderate gale
 during the forenoon. Temperature low today and
 steady. Summit clear at times in the forenoon and
 again in the evening, but sky very cloudy.
 Occasional slight showers of snow during
 the day.

1902

April 24th

Fog with showers of snow during the day. Clearing a little at times in the evening but cloudless at night. Barometer rising steadily all day. Light to moderate S^W or S E^W winds

April 25th

Sky very cloudy and at times fog on Summit. Temperature low in morning but rising and high during the day. Light winds chiefly S E^W and Calm all day.

Fog on hills in forenoon, passing showers to N E & S E and very thundery looking in afternoon. A slight shower of hail between 18 & 19 hrs. Glories seen at 7 hrs. Coast light seen to SW at 3^{hrs}. Thermometer Bot changed after 1 hr by 1392449 but 1392450 put out.

Today 3 Lachas (the first this year) visited the Observatory

April 26th

A fine day but somewhat colder than yesterday. Light S E or E S E winds backing to N E after 18 hrs, and accompanied with a slight rise in temperature, but after 22^{hrs} wind veered again to S E with a quick fall of 5° about steadily thereafter. Sky cloudless or almost so except from 11 till 13^{hrs} when it was very cloudy or overcast. Air dry all day. Fog in valleys most of the day

Cont

1902

Cont

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Passing showers to E. NE. & SW during the day
 a. Shower of snow on Summit between
 16 & 17 hrs but no measurable amount.

Haze around all day

April 27th

Temperature low in early morning 24.2 but
 rising during the day 35.9. Sky cloudy most of the
 day but cloudless in the evening and fog below
 all round. Light E^{ly} or SE^{ly} winds till 19^{hrs} backing to N since

April 28th

Sky cloudless in early morning, overcast
 and hazy weather during the day cloudless again
 after 19^{hrs} fog all round in forenoon breaking
 up and disappearing in afternoon. Light N^{ly} or NE^{ly}
 winds and Calm all day. Temp low all day 28.2 to 33.0

April 29th

Summit clear but sky cloudy with Ci-C & Ci-S
 till 8^{hrs} and the latter moving slowly from about WNW.

detached fog in valleys rising up and enveloping
 hill-top during the rest of the day. Showers of snow
 in the evening. Temperature about 30° during the day
 falling quickly at night 26.4. A small part of a solar
 Halo with mock sun at 6:17^{hrs} and Glories seen at 8^{hrs}

April 30th

Fog with showers of snow. Squally N^{ly} or NE^{ly} winds all
 day. Temp rising during the day but falling quickly again in the
 evening range 30° to 24.5. Barometer falling steadily all day
 slight surface drift most of the day

Six visitors ascended the Ben during April

1902

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May 1st

Summit clear all afternoon, but sky almost overcast, and fog on hills around. Temperature low all day range $22^{\circ}2$ to $30^{\circ}2$. Air very clear in afternoon to SW + S. Slight showers of snow in early morning. The observation at 18^{Hrs} was taken 10^{mins} late. No correction applied. Thermometer bot changed at $12:10^{\text{Hrs}}$ by 535541 + wet 535542 put out. Same Min left out

May 2nd

Fog all day with heavy showers of snow and hail. Temp higher today and steady

May 3rd

Heavy showers of snow and hail most of the day. Summit clear at 13 + 14 hrs but sky overcast. Temp low and falling in the evening

May 4th

Temperature very low all day range $27^{\circ}35$ to $19^{\circ}2$. Summit clear from 9 till 14 hrs but sky overcast. Heavy showers of snow since 14^{Hrs}. St Elmo's fire heard on top of Thermometer Cadder and kitchen chimney at 18^{Hrs} by heavy fall of snow at the time. Ther bot changed at $9:10^{\text{Hrs}}$ by 1392449 + wet 1392450 put out. Same Min left out

Three visitors ascended the Ben today

May 5th

Sky almost cloudless from 3 till 9^{PM}. Fog since with heavy showers of snow and hail. Temperature low all day range 16.1 to 27.0 Variable squally NE^E winds all day St Elmo's Fire heard on kitchen chimney accompanied with a heavy shower of hail.

Bot changed at 6:10^{PM} by 535541 + bot 535542 put out. Same Min out

May 6th

Temperature still very low range 17.3 to 23.1. Fog all day. Slight shower of snow at 15^{PM}

Two visitors with guide ascended the Ben tochar

May 7th

Summit clear at times during the evening Heavy showers of snow throughout the day. Temperature very low in early morning but rising during the day

May 8th

Fog or cloudy sky all day. Air slightly dry but very clear in the afternoon. Temperature low in the morning 23.0 rising during the day 36.2 but falling quickly again in the evening. Passing showers to NE + E at 12 + 13 hrs. Calm or variable N^E air all day. Heather burning about Ballinblack in the evening.

Bot changed at 7:5^{PM} by 1392449 + bot 1392450 put out Same Min out

The Tourist visited Observatory today

1902

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May 9th

An very clear all day and very dry at times the lowest humidity 37 at 5 hrs. Temperature low and fairly steady. Sky overcast or almost so till 17 hrs clearing and cloudless after 20 hrs. Fog hanging about hills around all day. Passing showers to N. E. & W in the afternoon.

May 10th

Sky cloudless till 3 hrs, overcast or fog since. Light showers of snow after 20 hrs. Air dry at times during the day. Temperature low in the morning but showing the usual daily range. Fog on hills all round most of the day and atmosphere very hazy. Solar Halo seen at 12, 17 & 18 hrs. The 20 hr observation was taken 10 mins late. No correction applied.

May 11th

Fog with occasional short sunny intervals. Light showers of snow during the day.

May 12th

Summit clear from 9 till 15 hrs, but sky overcast. Passing showers to NE and showers of snow on summit in the evening. Temps very low. Very squally with chiefly N.E. Bot changed at 10^h 5^m by 535541 & wet 535542 put out. Same min out.

May 13th

Fog till 6^{hrs}. Cloudy or overcast since. Air slightly dry at times. Temperature still remaining very low for the time of year. Passing showers of snow to N. NE and SE and at times on Summit during the day

May 14th

Summit clear but sky cloudy till 6^{hrs}. Fog with showers of snow since. Temperature low in early morning 16.7 but rising during the day 27°. Light NE² winds till 15 hrs backing to S since

May 15th

Fog & overcast day with occasional slight showers of snow. Temperature somewhat higher today.
One visitor up today

May 16th

Barometer falling all day, and wind backing after 3 hrs. to SE. Summit clear and air dry till 6 hrs and again from 13 till 15 hrs. Fog during the rest of the day. Slight showers of snow in the evening. Solar trails seen at 13 hrs. Bar changed after 1 hr. from 139.244 to 139.2450 feet out. Same time out

May 17th

Wind backed after 1 hr from SE through E. NE. to N & NW. and light in face. Fog all day with showers of snow

1902

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May 18th

Fog most of the day with occasional slight showers of snow; and during the clear intervals passing showers were seen to N + NE

May 19th

Variable squally winds chiefly ENE
 Temperature low all day range 26° to 20° . Showers of snow between 11 + 16 hrs. Bot changed at 18:5^{hr}. by 535541 + bot 535542 put out same min out.

Two visitors up today

May 20th

Summit clear and air dry from 12 till 18 hrs
 Thin fog during the rest of the day. Temperature still keeping very low. Solar Lunar Coronae seen at 23^{hrs}. Bot changed 12^{hr} 5^{min} by 139249 + bot 139250 put out. Same min out. Bot again changed at midt. by 535541 + bot 535542 put out.

Two visitors up today

May 21st

Sky cloudy or overcast with Ci-C + Ci-S
fog below most of the day and at times passing
over the summit. Air very clear and dry.
lowest humidity 42 at 15 + 21 hrs. Temperature
though low in early morning rose during
the day to 34° and has remained fairly
steady since. The winds have been light
NE in forenoon, backing to W + SW in the
evening. Solar Halo seen at 8 + 14 hrs.

May 22nd

Mist all day with drizzling showers of
rain. Temperature much higher, being
above freezing point almost all day, and
reaching 44° at mid-night. W & breezes
all day.

To-day Mr Miller went down and Mr
Affleck came up.

Seven visitors up to-day.

1902.

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May 23rd.

Temperature higher, falling towards evening. Summit clear with fog below all round in forenoon from 7 till 11, Mist during the rest of the day. N.E. or N.W. breezes, squally in forenoon. Snow on summit melting very rapidly. Lunar corona seen at mid-night.

Thermometers charged at 11 p.m. 439-449-50
put out.

May 24th.

Temperature lower to-day. W. or S.W. breezes in forenoon veering to N. in the evening. Mist on summit all day, with drizzling rain till 5 p.m.

One visitor up to-day.

May 25th.

Mist or Fog on summit all day, with drizzling rain. N.E. or N.W. breezes.

1902

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May 26th

Mist or fog on summit all day,
with drizzling rain.

May 27th

Mist all day, with very heavy
hail and rain. Strong squally
winds chiefly SW by, reaching gale
force in the afternoon. Min. at 21 hrs.
shaken. The min. for weather report
taken from hourly readings.

May 28th

Temperature low. Fog all day with
showers of snow and hail. Equally
W by or NW by breezes.

May 29th

Barometer rising all day, NW by breezes
in the morning, backing to SSE in the
evening. Fog till 13 hrs, clear but sky

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cont

cloudy afterwards. snow ^{in morning.} during the day.

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The cook went down to Fort William to-day.
Bar changed at 12:15, 53.5541-2 put out.

May 30th

Fog most of the day with clear intervals,
snow fell in the evening from 18 hrs onwards.

SE by breezes throughout most of the day,
backing to NE in the evening.

7 visitors and also cook reached summit to-day.

To-day the first horse this season reached
the summit.

May 31st

Fog or overcast all day with showers
of snow and sleet. Strong squally
north easterly winds.

Barometer pumping during the day.

at 21 hrs the minimum in bar had been
shaken, so the lowest hourly reading was
taken as the minimum in the weather
report.

1902

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June 1st

Fog or mist all day, but at 9 pm the fog fell into the valleys, and left the summit clear. The winds were chiefly E G, light in the morning, but increasing during the day to almost gale force in the evening. Earth current noted at 10:35 pm.

June 2nd

The barometer rose during most of the day. ~~The~~ and was pumping in early morning. The winds were chiefly S G or S E G, blowing with light gale force in the morning but decreasing to a light or moderate breeze during the day. Fog or mist all day, till 9 pm, when the fog fell into the valleys, and the sky was cloudless. In the forenoon the mist was very wet. At 3 pm the box was lowered, and some thermometers left out.

In the afternoon Wragg's well was opened, the snow on the summit is becoming rather dirty & to-day the hotel was also opened.

Three visitors reached the summit to-day.

1902

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June 2nd cont

In the evening after hearing that Peace had been proclaimed in South Africa, the observers had a bon-fire on the Lower Ridge.

June 3rd

Clear on summit all day except at 4 am. and at mid-night. In the forenoon and up till 2 pm there were only upper clouds in the sky. In the morning fog was lying in the valleys and passing over the summit at times, from 3 pm the clouds were chiefly cumulus. It was very hazy all day. There was a slight shower of drizzling rain in the evening.

June 4th

The summit was clear from 4 till 9 am, also at 11 and 12 am, but was enveloped in fog or mist during the rest of the day, during the clear spell fog was lying among the hills, and occasionally passing over the summit. SE breezes blew throughout the day.

1902

June 5th

199

Fog or mist enveloped the summit all day with short clear intervals. The temperature has fallen somewhat lower than yesterday. There were some slight showers of rain about mid-day.

7 visitors reached the summit to day.

June 6th

Fog or mist on summit all day, with showers of rain during the day and sleet in the evening. Calm or light W. winds during the day backing to SE at night.

2 visitors reached the summit to-day.
Snow-burtings are now seen daily on the summit.

June 7th

Fog or mist on summit all day, except for a short clear spell in the fore-noon. Showers of snow fell in the morning and afternoon. The temperature was lower today.

3 visitors reached summit to-day.

1902

200

June 8th

Fog on summit all day with short clear intervals. The winds were N.E., and equally in the morning, when the barometer was pumping. The minimum for the newspaper report was taken from the hourly readings, as the minimum in box was shaken.

8 meters reached summit to-day.

The box was changed at 5 am. Thermometers 1392449-50 put out, and same min. put out.

June 9th

Fog most of the morning. Slight shower of snow between 10 and 11 hrs.

At 13 hrs. the Thermometer box was changed.

No 1392449-50 taken in and No 535541-42 put out. Remainder of the day was clear with little or no cloud, such as there was moving rapidly from the NE.

Today Mr. Robert Aitken came up and Mr. Bee went down to Fort William.

1902.

June 10th.

201

a lovely day throughout. In early morning some thin fog lay in the valleys and occasionally rose near the summit. at 9 hrs. though summit clear saturated reading observed. The horizon was somewhat hazy at times.

To day J. B. Mear and James Ford came up the former as observer and the latter as cook and steward.

Affleck and Gordon to Fort William.

June 11th.

Fog all day with light S.E. by breezes. Showers of snow during the day.

June 12th.

Fog with showers of snow. Almost calm today. about 2 p.m. it cleared a little, the fog lifted and disappeared towards N. Cumulus clouds below horizon approached from ~~the~~ S, sky being overcast with dull grey shadows and lower cumulus at parts.

at 10 hrs. the amount of snow is only approximate as some was spilled.

1902.

June 13th

202

Fog all day till 20 hrs. It then cleared but was very gloomy towards the S.

The air got rather dry the humidity at 22 hrs being 54%. At mid. the fog had come on once more.

June 14th

Fog or mist all day.

June 15th

Mist throughout the day. At 11 hrs the Rainfall is only approximate as some was spilled in measuring.

at 10, 11 & 14 hrs. the Wet Bulb seems to have been somewhat sluggish.

June 16th

Mist or fog till 20 hrs. The summit then cleared while an immense mass of Rolling fog lay to the N and E. Cirrus and Cir. Cum predominated in the sky, the Cir. Cum. being hard packed.

At various hours throughout the day the same cloud was observed through the fog.

1902

June 17th

203

Considerable trouble was experienced today with the hygrometer. Throughout the day a fairly thick fog lay on the summit but ~~during~~ during the greater part the wet bulb read lower than the dry. At 14 hrs. the thermometers were changed, new muslin having been put on, but the results were no better. Nos. 139244.9-50 were put out. 53° 5' 41"-42" in.

June 18th

Over 14 hrs. sunshine recorded today. For the most part the sky was cloudless. Thick fog lay in the valleys in early morning while a haze lay round the entire day. At 22 hrs. fog began to pass from the South and thereafter settled down on the summit.

June 19th

Mist all day. At times the sun tried to break through. During the afternoon and evening although the rain gauge was changed every hour it was never wet enough to justify noting the moisture as droo. Towards midnight the wind became somewhat stronger

1902.

June 20th

204

A strong wind blew from the SE all day. It reached gale force in early morning but moderated slightly during the day. Mist till 13 hrs. at this hour the sky presented a very varied appearance being covered with dull grey Ci.S. below which at different parts floated the mackerel Ci.C. To the E a belt of green sky was seen about horizon and below this great masses of Cum.fog to N+W. To S the Ci.S. had in some parts different shades of red + yellow. The Barometer was pumping most of the day. Today four Swedes visited the Observatory.

June 21st

A very changeable day. Remained clear till 12 hrs. but thereafter fog and mist prevailed. At 19 hrs. through the Cum.S. cloud Ci.S. could be discerned.

At 15 hrs. there was no snow at the gauge post. A considerable amount of snow still lies on some parts of the summit. At 21 hrs 5 minutes the thermometers were shifted to the Sumner Screen and Min. No. 116918 put out. It was found to read 1.0 lower than standard.

1902.

June 22nd.

205

Mist all day with drizzling rain. The temperature is fairly high and steady reaching a maximum of 42.7° . A Lunar Corona was observed at 1 a.m.

June 23rd

Mist or Fog with occasional slight showers of drizzle till 17 hrs. Clear since. Green belt (probably haze) above horizon to East merging into blue to South at 18 + 19 hrs. A little cum fog on hills to W + S after 22 hrs. Today Mr J. Miller came up and J. C. Mann went down to Low Level Observatory.

June 24th

Sky overcast or almost so with cum. S in forenoon and cir + cir-c in afternoon moving slowly from SW. but fog in valleys in early morning and rising and passing over Summit at times, but clearing away after 5 hrs. Haze all round below in afternoon thicker to Eastward.

June 25th

Temperature high all day; the reading at 13 hrs 62.0 being the highest observed this year. Sky cloudy all day and thick haze

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Cont.

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high up all round. Fog passing over Summit frequently after 20 hrs. Thunder heard between 15 + 18 hrs down to E + SE also strong earth currents.

June 26th

Strong S + SE winds all day reaching full force in early morning. Sky slightly clouded till 14 hrs with Cir. & Cir.-Str moving slowly from SW. Cloudless since. A little fog passing at 21 hrs. Thick haze high up all round all day. Temperature high all day. The snow wreaths on Summit are thawing rapidly.

June 27th

A magnificent day, the maximum temperature being 63 at 15 hrs. Sky cloudless down to horizon all day but atmosphere somewhat hazy. 94% of the total possible sunshine was recorded today.

June 28th

Today the highest hourly temperature ever registered at this Observatory was observed at 14 hrs 66°4, being 2 tenths higher than that of June 1887. Light to moderate E or ESE

1902

Cont

207

winds all day. A very little cir on sky till 11 hrs cloudless since. Air very dry at times during the day, the lowest humidity 36% at 16^{hrs}. In afternoon a thick stratus fog clinging to hills to N. At 8^{hrs} observation was 3 minutes late

June 29th

Temperature not quite so high today, the max being 61° at 14 hrs but weather otherwise very fine. A little str fog on hills to N in forenoon, but dispersing about midday. Haze in distance all day. Moderate to light SE & winds veering to S in the evening

June 30th

Thick haze around all day. Some fog in valleys to SE at 2 hrs but spreading round to S & E during the forenoon. In the afternoon it rose up till it finally settled on the summit after 17 hrs. Wind veered to SW at 1 hr then W at 8 hrs and NW or N since. Tonight Mr Neil Cameron arrived to take up duty as Telephone Clerk during the season

1902

July 1st

208

Mist on Summit till 2nd hrs. clear and sky almost cloudless since, but fog below all round to about 4000 ft. and occasionally rising up and passing over Summit in forenoon. No fog below after 14 hrs. Temperature decidedly lower to day range 47° to 36°

July 2nd

Sky cloudless till 3 hrs. Cloudy or overcast since. Fog on hills to N + E in early morning but dispersing during the day. Light N^W winds till 14 hrs. backing to ~~SW~~ SW & S since. Haze all round in afternoon

July 3rd

Sky overcast till 2 hrs. Fog or mist since with drizzling rain since 9 hrs. Light SW^E winds all day. Temperature steady range 41° to 44°

July 4th

Mist with heavy rain till 10 hrs. Fog since. Sun gleaming and fog breaking at intervals between 10 + 14 hrs. Temperature steady about 44° till 15 hrs. falling since 36° at midnight

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July 5th

Fog till 4 hrs clear since. Sky slightly cloudy with Ci-C, moving chiefly from about W.S.W. but fog on hills but disappearing during forenoon no fog below in afternoon. Air exceptionally clear from S by SW to W in afternoon. Flares seen at 5 hrs, and part of a rainbow at 20 hrs

July 6th

Summit clear till 3 hrs. Sky overcast with Ci-C till 2 hrs, but lowering and forming into Cum-S at 3 hrs, then finally settling on hill tops. Mist during the rest of the day with drizzling rain

July 7th

Mist with drizzle all day.
Temperature very steady range 40° to 38°

July 8th

Mist all day with drizzling rain, except at 10 hrs when mist lifted for a few moments, but sky apparently overcast
~~Today~~ Mr J. Ford who has been acting Cook during the past month left Observatory today

1902

July 9th

210

Barometer falling all day. Temperature steady. Mist all day with drizzle in forenoon, heavy rain in afternoon.

Today S. Gordon returned to Observatory

July 10th

Temperature low all day, being below freezing point in the evening. Showers of rain and sleet during the day.

At 13 hrs, observation was 15 minutes late. A correction was applied to barometer of -0.010 . The Barograph trace showed a rise of about 3 hundredths between 12 + 13 hours, and about 1 hundredth between 13 + 14 hrs. As regards temperature 2 tenths were added on to the observed reading; and 0.042 was taken off the rainfall measurement and added on to the 14 hrs observation.

July 11th

Mist or fog with showers of snow till 11 hrs. Summit clear since, but sky cloudy or overcast. Temperature still very low. Air slightly dry, but very clear in afternoon.

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July 12th

Banks of fog down to SW which came creeping up and enveloped Summit after 5 hrs. Mist with drizzling rain since. Temperature low in morning but rising during the day.

July 13th

Mist all day with drizzle. Variable W^{ly} winds (SW to NW) and light in force. Temp rising 39 to 45.

July 14

Misty all day with continuous drizzle. Winds W^{ly} or S.W^{ly} and variable (within these limits) at most hours. Temperature high and steady, the range of hourly readings being only 4° (43° to 47°).

July 15th

Misty all day, but with no precipitation in evening. Winds again rather variable; during the course of the day they came round towards the north, at the same time becoming lighter in force.

1902.

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July 16th

To-day the summit has again been enveloped in mist with the exception of a brief interval in the forenoon, beginning about 6^h 45^m when the sky was overcast with a steel-grey stratus cloud, having a slight roll in some parts and entered therefore as Str-C at 7^h and again as Cir-S at 8^h and 9^h, having risen in the interval. Immediately prior to this period the wind backed to W and increased in force at the same time, and the barometer was steady or slightly rising. From its close onwards the wind continued to back to W and S.W.; the barometer showed a steady fall, and precipitation which for several hours was interrupted became again continuous.

The temperature was steady all day, with a range in the hourly observations of less than 4° (37.2 - 41.0).

July 17

To-day has been characterised by heavy rainfall, about one inch being recorded. At 5 diff. hours the fall exceeded one-tenth of an inch.

1902 July 17th cont

The winds have again been very variable & most of the directions given are average or approximate. Some snow fell in the evening, when the temperature fell below freezing point. This, though not sufficient to give a reading, ~~covered~~ gave a suggestion of white color to the stone. The minimum reading at 21st is very suspicious. At the time of reading (21st 7 min) the dry bulb was noticed to give a reading of about 31°. 7° & again later in the evening, though the box was opened very carefully to avoid shaking, the min. read 10.2° lower than the dry bulb therm:

July 18th -

To-day has been much drier and more pleasant. The snow of the previous evening lay on the stones for several hours in the morning, most of the day was foggy, but for several hours in the afternoon the summit was clear with a bank cloud covering the sky. The summit was also clear to N at

1902 July 18th cont.

intervals between 3rd and 4th, again at 20th, and again later in the evening. A fresh N breeze sprang up in the early morning in succession to the variable winds lately experienced, but during the day this again sank in force & in the evening the direction was again variable, though in the main north.

The min. thermometer is still unsatisfactory giving each hour a reading about 1° 2 below the dry bulb.

To-day a vole was caught at the hotel door while eating corn along with the horses.

At 4th the barometer was observed to be pumping.

To-day has been very cold, the mean being 32° 7.

July 19th

Still very cold.

Shortly after 2 hrs, the ^{mist} clouds broke to N.W. so as to admit a band ^{yellowish} of light some 5° above horizon, which gradually became lighter & then died away. The clouds ^{mist} finally

1902

July 19th ~~cont~~

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cleared off about 2^h 45^m. Towards Sunrise, on the horizon, a green haze or cloud was observed, from N.E. to N. merging into a slate-colored cloud, above which was a belt of yellowish sky fringed with purple clouds. Distinct ^{from} & apparently lower than, these, was a pale of dull ^{bluish} Cir-C & Cir-S clouds (which exhibited an early bright-red fringe), the Cir-C having a background of Cir-S & moving away S.E., giving place to Cir-S. After Sunrise, slate was prevailing colour towards Sun, and a hint of green was noted towards S.W.

At 7^h currents were ascending in N Cliff.

About 10^h Miss Dait, the first of the ladies to attempt a Ben record, arrived at the Observatory, having walked from the P.O. Fort W^{est} in 1^h 59^{min} 30^{sec}.

In the evening Cum-S cloud was observed in the intervals between said to be hanging over Skye & ~~western~~ islands.

The minimum is still unsatisfactory, being observed to give lower readings than the mercury. must

1902 July 20.

At 1^H, 2^H, 3^H the barometer was observed to be pumping. At 3^H Dark blue Cum-S cloud was observed to N strength a break in the cloud. At 4^H 10^m the wind which at 4^H had been recorded variable, 0-3' was observed to be N, 1-5'. In the forenoon two sheep were seen on the Summit near the Hotel. This is the second time this season that sheep have been seen on the top. The temperature continues low and northerly winds prevail. Mean Dry Bulb - 32°3. Today Mr. J. B. Max, Milwaukee with a party of 4 friends; also Mr. Eben Mackenzie, visited the Observatory.

July 21st

Several times in the early morning 0^H 10^m, 1^H 5^m etc. fleeting masses of scud passed in line with moon when following etc. were observed. (a) Brown with inner fringe of yellow, next moon but at some distance. (b) Green, much wider than (a). (c) Outer fringe of Brown.

1902

July 21st - contd

The summit was clear about sunrise, and onwards; immense banks of fog were piled up on hills all round to a considerable elevation — to at least 5000 ft, & it was noted that these were higher to N than to S.

At 9^h & 10^h a solar halo was observed, being, however, faint. From 12^h ~~on~~ there was an almost continuous very light drizzle of which however no measurement could be obtained.

The minimum to day for the report is the lowest hourly reading. At 5^h the minimum was examined to see if there might not be spirits in the top of the tube, & the observer omitted to take a reading before ^{displacing index} ~~dropping~~ 50. The min. readings are still, however, unsatisfactory.

1902

July 22nd

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In the early hours of the morning there was a continuous light drizzle which was, however, unmeasurable.

at 5^h 30^m a tourist reported having seen two fog bows, while he was standing near top of Observatory Bridge, which apparently were situated about position of rain-gauge ^(i.e. to S). The larger was white, and the smaller exhibited rainbow colours, both being, according to his description narrower towards top and inclined to W. The bows appeared to him to be distinct and not concentric.

20-day Mr Miller went down to L.L.O and the rainband observation was taken by him at 14^h before leaving.

Mr Bee came up for duty in his place.

At 17^h 30^m through a break in the clouds a sulphur column was observed over Loch Linnhe and some mins. later when the cloud had closed up the same was noted in the cloud over the Glenoe hills.

a faint Lunar corona was noted during the course of the midday obs. The spirit of the min. thermo, still gives a reading averaging at least 10 lower than the mercury.

20-day 66 public messages were handed in at Bro being the record for one day.

The 22^h observation was begun at 23^h 3^m owing to a discrepancy between clocks

1902.

July 23rd

Mist all day, with a clear spell from 11 till 17 hrs. Drizzling rain fell in the evening. N by winds most of the day.

July 24th

Mist or fog most of the day, with a few clear spells, the air being dry from 11 to 15 hrs. The temperature was low. Light N by winds prevailed.

July 25th

The temperature was low throughout the day. Summit clear from 18 till 23 hrs. Mist or fog during the rest of the day. at 22 and 23 hrs a very thin fog rising from Glen Nevis and passing over the hill top kept the air saturated. Drizzling rain, sleet, and snow fell

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July 25th cont.

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throughout the day. The winds were chiefly N E and W E in the morning, backing to S and S E in the evening.

A lunar corona was observed at midnight.

July 26th

Mist or Fog on summit all day, except at 7 hrs, from that time onwards rain fell almost continuously. The Barometer fell during the day, and was pumping in the forenoon. The winds were squally all day, S E E in the morning and backing to N and N W E in the evening.

July 27th

Mist or Fog all day, except at 10 hrs, drizzling rain, snow and sleet fell during the day. The barometer rose during the day. The winds were on the whole rather squally, and were from the N

1902

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July 27th cont.
or variable.

July 28th

Fog or mist all day except for a clear spell in the afternoon, the air was dry at 18 hrs, rain fell from 19 hrs onwards. The winds were light, chiefly N.E. in the morning, and W.E. after mid-day. The temperature was very moist of the day.

July 29th

Fog or mist all day, with showers of drizzling rain snow and hail. Light N.E. or variable breezes. The minimum is the lowest hourly reading, as the minimum thermometer is still working very badly.

July 30th

Fog or mist with drizzling rain, snow and sleet throughout the day. Light N.E.

1902.

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July 30th cont.

or variable breezes all day.

July 31st

Fog with air saturated till 6 am, clear with air dry thereafter, the sky being overcast. There was fog in the valleys most of the day. Calm or light airs all day, N by E in the morning, S by E in the evening. The minimum thermometer is still reading at least 1° too low.

August 1st

Summit clear from 4 to 8 hrs, with fog lying in the valleys, fog or mist during the rest of the day. The barometer was falling the whole day. S W by E breezes, rain fell continuously from 7 pm onwards.

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August 5th

224

Overcast till 3 am, mist most of the rest of the day; slight showers of rain fell during the day. The winds were light chiefly SE.

August 6th

Fog or mist all day, with no precipitation, moderate SE winds all day. The barometer fell throughout the day, and the temperature was lower than on the preceding days.

August 7th

Fog or overcast sky all day, during the clear spells, fog lay in the valleys. Winds light to moderate, ESE all morning backing to N in the evening.

1902

August 8th

225

Clear with air dry till 3 pm, fog or mist from then till mid-night. Fog lay in the valleys most of the morning, and was observed rising from Glen Nevis at 7 am. The winds were light and chiefly N by, although the motion of the clouds was SSE. Fairly heavy rain fell after 9 pm.

August 9th

Today a number of gentlemen representing the Burgh of Fort William, along with several other people ascended Ben Nevis to take part in the coronation rejoicings. A large bon-fire was lighted on the summit and several rockets were fired after 21⁴⁰⁰, but neither the bonfire nor the rockets could be seen from any distance as the Ben was enveloped in mist, and rain fell heavily all evening.

In the afternoon a masonic ceremony was held in the observatory by Lodge Fort William N^o 43, and several new.

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August 9th Cont^d

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new candidates were initiated, including one of the observers.

After 22^{hrs} all the visitors left the summit.

Mr. R. H. Macdonnell arrived at the observatory in the early morning and Mr. W. M. Bee went down to the Howland.

August 10th

Temperature throughout the day has been very low. Some rain fell in the early morning, and between 20^{hrs} + 21^{hrs} a slight shower of snow fell.

Mr. R. C. Mossman (Edin^g) visited the observatory this evening.

August 11th

Showers of snow, sleet and rain throughout the day. Temperature rising slowly.

August 12th

Summit clear but sky somewhat cloudy from 5^{hrs} till mid^l.

Fog lay over the surrounding hills disappearing after 19^{hrs}.

1902 August 13th

sky somewhat cloudy but air dry all day. fog over hills all day, & passing over the Ben occasionally in the evening.

August 14th

Clear and air dry for a few hours in early morning, and again at night. Slight showers of rain fell after 12^{Hrs}, and the wind, from being west in the forenoon, veered to North and North-west at night.

August 15th

The summit was clear and the air dry most of the day, but after 22^{Hrs} rain began to fall.

During the forenoon fog lay over the surrounding valleys.

August 16th

Till noon the summit was clear and the sky cloudy or overcast, thereafter it was enveloped in fog or mist, and rain fell heavily from 18^{Hrs} till Midnight

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August 18th

228

Mist and heavy showers of rain till 16^{hrs}, after which the Ben cleared, and the sky was overcast, while fog lay on hill all round.

August 19th

Fog "off and on" all day. The air was slightly dry till 4^{hrs} and again from 13^{hrs} till 21^{hrs}.

At midnight snow was falling.
Lunas coronae at 3^{hrs} & 23^{hrs}.

August 20th

Mist, with showers of sleet and drizzling rain till noon, and a slight shower of hail after 20^{hrs}.

August 21st

After 3^{hrs} the summit cleared and fog lay over the surrounding hills. During the day the sky was clouded with cumulus, and the air was dry, but after 21^{hrs} mist came on and rain fell till midnight.

The temperature rose gradually during the day. (28° 1 to 39° 5)
Lunas Corona at 3^{hrs} and Glories at 5^{hrs}.

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August 22nd

229

Mist with continuous rain and moderate squally ^{south-}west^{erly} winds throughout the day. Temperature remained high. (41° to 48°)

August 23rd

Both pressure and temperature were very steady all day. The hill was enveloped in mist and some rain fell at times.

Light squally South West^{erly} winds

August 24th

Temperature rather steady during the day but falling slightly at night.

Light squally west^{erly} winds till 2 o'clk moving to North thereafter.

Mist and heavy showers of rain during the day

August 25th

Today Mr. Wedderburn from the half-way Station visited the Observatory. Some heavy showers of rain fell in the forenoon and again at night.

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August 26th

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Some showers of rain fell in the early morning, but after 16^{hrs} the hill top cleared, and fog lay over the surrounding hills passing over the Ben occasionally.

August 27th

The summit was clear from 5^{hrs} till 9^{hrs} and again from 21^{hrs} till midt. In the forenoon there was fog lying over the hills to eastward and thin haze in valleys.

The 7^{hrs} observation was started at 7^{hrs} 5 mins (no correction applied to readings)

August 28th

Fog "off and on" during the forenoon and mist all evening.

Some showers of rain fell after 4pm and again at night.

August 29th

Temperature was very low all day (32°8 to 34°9). Some slight showers of rain fell about the middle of the day. Mr. Wedderburn came up from the hut this evening and spent the night at the Observatory.

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August 30th

231

The air was very clear all day, and in the early morning detached fog lay on the surrounding hills, rising gradually and disappearing in the afternoon. Haze in valleys in evening.

Mr. Wedderburn returned to the "Hut" early this morning.

Today Mr. H. B. Robb arrived at the observatory to relieve Mr. Gentle who has been doing duty as observer during the month of August. ^{Mr. Gentle left} here in the evening.

August 31st

The summit was clear at intervals during the day. A slight shower of snow fell between 12 & 13 Hrs, and again at 13 Hrs & 14 Hrs.

Sky cloudless and thick haze all round below till 14 Hrs. Fog the rest of the day.

The 14th observation was started at 14 Hrs 9 mins (No correction applied to readings)

1902

September 2nd

232

Fog or mist and showers of rain till 9th and again after 19th.

During the day the hill-top was clear and the sky somewhat cloudy. There was a thin haze all round which became more dense as the evening advanced.

The temperature throughout the day was fairly high and steady.

September 3rd

A very disagreeable day. During the forenoon the wind was south-easterly and squally, in the evening it veered to South-west and west, becoming more squally and increasing in force.

The barometer fell rapidly till 14th then turned quickly up again.

Except for three hours at mid-day rain fell continuously, the fall between 16th & 17th measuring 0.859 inch.

Barometer pumping heavily from 19th till midnight

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September 4th

233

Mist and heavy showers of rain throughout the day.

Squally westerly winds continued till 8 Hrs after which hour the wind backed to North and N.East and moderated in force to a light breeze.

Barometer pumping till 6 Hrs

September 5th

The temperature rose slowly all day, and for an hour or two in the afternoon the summit was clear and the air slightly dry.

Showers of rain fell in the early morning, and drizzling rain at night.

September 6th

The temperature continued to rise steadily all day the mean for the 24 hours being as high as $44^{\circ}5$.

Drizzling rain fell from 1 Hrs till 11 Hrs thereafter a thin mist enveloped the hill top, and at 23 Hrs & midn the stars were gleaming overhead.

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September 7th

234

mist with occasional breaks in the forenoon, and slight showers of rain in the afternoon. After 18^{Hrs} the fog fell below the level of the "Bluffs" and lay over the surrounding hills the rest of the day. At 19^{Hrs} & 20^{Hrs} the sky was slightly clouded with cirro-cumulus, and cloudless thereafter. The temperature throughout the day has been high and comparatively steady, ranging from 47°0 to 39°2

September 8th

A clear, warm and cloudless day. The air throughout the day was very dry and clear, while 81% of the possible sunshine was recorded.

All forenoon thick fog lay in the surrounding valleys, rising a little about mid-day and topping the lower hills, but sinking into the valleys again in the evening. A moderate westerly breeze blew in the forenoon, backing to NW in the evening and decreasing in force.

The temperature of the Barometer was very unsteady between 14 & 15^{Hrs}

1902 September 9th

235

The summit was clear and the sky at times cloudless till 9^{h¹⁵} then fog came on, but lifted occasionally in the afternoon.

During the forenoon fog lay over the surrounding hills to about 3800 feet level, only a few of the higher hills being visible.

Glorias were noted at 6^{h¹⁵} and a fog-bow at 8^{h¹⁵}

September 9th

The sky was cloudy or overcast most of the day, with fog rising from the valleys and passing over the Ben at times. After midnight the hill became enveloped in fog and ~~at~~ at 19^{h¹⁵} snow began to fall and continued till midnight. Temperature throughout the day was low and falling slowly.

The 11^{h¹⁵} observation was started 5 mins late (No correction applied to readings)

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September 27th

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The summit was clear and the air very dry throughout the day. The sky was cloudy or overcast and fog lay over the surrounding hills and haze in valleys.

After 6⁴⁵ a Hawk was seen flying over the summit, and in the evening about a dozen ravens were flying about the north cliff.

Arthur Hardwick M.D. & R.M.S. who is staying at the Hotel on the Ben, visited the observatory this evening.

September 28th

Cloudless most of the day.

Fog and haze lay in the surrounding valleys, rising gradually towards night.

83 per cent of the possible sunshine was registered today, and at 16⁴⁵ the temperature was as high as 50°, which so far is the highest recorded this month. Fog below at 12¹⁵.

After the 6⁴⁵ observation a Ptarmigan was seen flying past the observatory.

1902

September 29th

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Cloudless till after 3⁴⁵. Fog in valleys rising slowly, and enveloping ~~till~~ the summit between 3 and 4⁴⁵. The summit was clear again from 16⁴⁵ till 20⁴⁵ but the sky was overcast.

Occasional slight drizzling rain fell during the day.

Today Mr. J. Collier Mann arrived at the Observatory and Mr. H. D. Robb went down to Fort William.

September 30th

Mist enveloped the hill top till 21⁴⁵; thereafter the sky was cloudless and the air very clear & dry.

Most of the West coast lights were seen from 22⁴⁵ till midnight.

Some slight drizzling rain fell in the afternoon.

The summit continued clear & the air dry till 16⁴⁵ after which the fog rose from the valleys & enveloped the hill top for the rest of the day.

Today the hotel on the summit was closed for the season, and Miss Cameron

1902

who has been doing telegraph 243
work at the observatory left the
summit. Mr. D. Gordon who has
not been keeping well for some time
left the observatory this afternoon
to consult a doctor in Fort William

October 2nd

Fog "off and on" all day

Today Mr. John Macdonald came
up to act as cook and steward
in room of Gordon who is on
sick leave.

The 18th observation was started
10 minutes late (no correction applied
to readings).

October 3rd

Somewhat cloudy till 16th
cloudless thereafter. Fog lay in valleys
during the early morning and a thin
haze in the afternoon

October 4th

Clear and air dry all day.
In the forenoon fog lay over Lochail

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Oct^r 4th cont^d

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and the Calumet canal, this
however lifted before noon and a
thin haze lay in the valley the
rest of the day, and at midnight
the River was enveloped in fog

October 5th

The hill top was clear at 2^{PM}
but was enveloped in a thin fog or
mist the rest of the day.

a fresh south or east south easterly
breeze blew all day

October 6th

Clear for a few hours in forenoon
and again in the evening.

Some slight showers of snow fell
in the afternoon and again at
night. The temperature throughout
the day has been rather low & steady.

October 7th

The River was clear most of
the day, and showers of snow
fell in the evening.

Today the horses had to carry water
from the red barn, as the observatory
supply has run down owing to a leak
in the large wooden tank.

1902 October 8th

245

The summit was clear most of the day, and the sky cloudy with fog over the surrounding hills and passing over the Ben occasionally.

October 9th

Summit clear all afternoon: and sky cloudless at night. Thick haze below.

Mr. Rankin arrived here and Mr. R. M. Bouye left.

October 10th

Low lying fog ^{on} C. Canal Lock Rd and other locks around at 6 Hrs. - This fog cleared gradually and was all gone by 11 Hrs. Cum-fog was forming at 12 Hrs on tops of lower hills. At 13th this stratum had risen to level of Summit. Cumulus overhead in evening, ascending & disappearing at night. ~~Stratus over the lower hills~~ ~~Disappearing at night~~

Lunar Corona seen at 19 Hrs.

Snow hunting seen about Summit.

October 11th

Low lying fog on locks etc. at 6 Hrs much the same as yesterday. Disappearing by 12th. But cum fog forming over lower hills at 12 Hrs - at level of Summit at 13 Hrs - above Summit as Str. at 14 Hrs. - falling again in evening enveloping Summit as fog from 20 Hrs to 22 Hrs. - Disappearing by 23 Hrs leaving a cloudless sky above. Snow hunting seen at Noon.

Pages 246-250 missing
from volume

Temperature falling slowly to
 a little below freezing and
 some light sleet or snow and
 some I have stopped coming out.

November 2

At 11th and 12th the fog was fairly
 thick and of a dull yellowish color.
 Tracks of moose (Hinds) seen above
 town (outside) today.

November 3

Under small ice patches a fall of
 fog crystals falling at night.

November 4

Under small ice patches a fall of
 fog crystals falling at night.
 At 11th and 12th the fog was fairly
 thick and of a dull yellowish color.
 Tracks of moose (Hinds) seen above
 town (outside) today.

November 5

At 11th and 12th the fog was fairly
 thick and of a dull yellowish color.
 Tracks of moose (Hinds) seen above
 town (outside) today.

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November 1st

Temperature falling $39^{\circ}6$ to $26^{\circ}9$
 At 10th a little hail was falling - very small
 hard pellets of white snow and clear ice
 mixed [Horses stopped coming up regularly today]

November 2nd

At 16th and 17th the fog was fairly
 thick and of a dull yellowish colour.
 Tracks of weasel (~~At 16th~~) seen about the
 tower (outside) today

November 3rd

Hail - small icy pellets - falling at 10th
Fog crystals forming at night

November 4th

Thick mist or fog all day.
 SE^{ly} breeze all day increasing in force
 at night (Calm or light air reported at F.W.)
[H. Mackenzie and horse up today]

November 5th

E. to SE. Gale almost all day; with thick fog
 or mist on summit.

Fog crystals forming - a glassy kind that gave
 a metallic sound on being struck or broken

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