

Ben Nevis Observatory
Low Level Station - Fort William.

1890.

- June 5th This evening Mr R. T. Omond came down from Ben Nevis and went into residence here - He brought down the B.N.O. Thermograph for repairs -
- June 7th Thermometers No 50850 and 50852 (Dry & Wet Bulb) brought down from B.N.O. for use here -
- June 9th The BNO Thermograph returned from Angler - watchmaker - with clock work repaired, & was set going in Office here -
- June 10th Today Mr Omond went to Edinburgh.
- June 14th Today Mr Omond returned from Edinburgh.
- June 16th Mr Omond went to Lake & examined Thermometer Box there -
- June 18th Today the first installment of instrument from Kew arrived here, consisting of 2 Slate Slabs, 5 Large Deal Boxes, 1 Small Deal Box.
- June 21st Thermometer Box from Lake brought down to be repaired & painted before being sent up to the top -
- June 22nd Sun set behind hill opposite Observatory at 19^h 50^m the time of setting for the Ben Nevis Arcy. being about 21^h 20^m
- June 23rd Thermometer Box from School house brought here, for use after painting & repairs -

- June 24th Two eight inch raingages, screw plug pattern, were today brought down from B.N.O.
- June 25th Mr Baker from Kew Observatory arrived this afternoon with additional instruments.
- June 26th Kew Instruments unpacked: and floor of Instrument Room cut for brick piers of Barograph.
- June 28th Thermograph slab set up in Instrument Room.
- June 30 Brick Pillars for Sunshine recorder set up to SW of Observatory. N.B. The hills to SW, W & NW cut off sun at about 10° above horizon. Those to NE at about 6° . E about 12° and SE about 12° . Also Beckley Raingauge set up, and extra Raingauge (Met Office) & 8 inch Ben Nevis gauge.
- July 1st Raingages finally adjusted. Additional case of Instruments unpacked & Sunshine Recorder set up.
- July 3rd Photographic Room fitted up & Photo papers & chemicals examined.
- July 4th Set up Stevenson Screen for temporary use.
- July 5th Thermograph Window completed - except painting - Barograph set up and Standard Barometer in Instrument Room. Packet of B.N.O. guide books received from Edinburgh.

- July 8 Set of Lamps for Barograph and Thermograph arrived. One was set up & Barog. started at 22^h 8^m.
- July 9 Barograph left running all day - Mr Baker & Mr Omond went up Ben Nevis, returning to Fort William in the evening.
- July 10 Soured screen for Thermograph fitted up today by joiners - Satisfactory Barograph curves developed & fixed.
- July 11 Thermometer tubes of Thermograph adjusted & set up, lenses & mirrors adjusted & instrument started.
- July 12 Light stop on Barograph altered. Max & Min mounted in Thermog. Screen. Wire netting put round legs of Screen to keep out cats etc.
- July 14 The Barograph & Thermograph were started at 10^h 50^m for regular work. The Beckley Raingauge had a washer put in to prevent a possible leak at bottom of receiving funnel. The ground under the Thermograph Soured Screen was turfed between 17^h & 18^h. This afternoon Mr Baker left. Mr Honeyman
- ~~July 14~~ & Mr Henry surveyed the boundaries of the upper part of the ground.
- July 15 at 22^h it was noticed that the zero of the Wet Bulb was not indicated on the Thermograph Drum.

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July 15 Began comparative readings in Stevenson Screen.

July 17 Thermograph Screen painted this morning by painter.

July 18 Finished painting thermograph screen.

July 19 Very calm all day except for a slight breeze for a few hours in afternoon.

July 21 Mist very low all day - under 1000 feet.

July 22 Started readings at 9 am & 9 pm.

July 25 Fitted light blue glass to Barograph at 10^h 30^m Sun set at 19^h 35^m.

July 26 Clouds low in afternoon, about 500 feet.

July 29 Clouds low in morning 500 to 1000 feet but rising to 2000 at night.

July 30 clouds at about 1000 ft. at 9^h rising to 2000 in the course of the day.

July 31 Today J. Duncan arrived here & stayed over night.

August 1st Today side louver boards were fixed to Thermograph Screen - the workmen were at it near the screen all afternoon.

Today G. Nisbet came down from the BNO and stayed over night here.

Today the wooden stand for the Sunshine Recorder was cemented on to the pillar - From 16 30 to 16 50 G.H.T. the Recorder was mounted on a temporary stand, but during that time there was no sunshine recorded.

August 3 clouds were at about 1500 at 9^h am but sunk to 500 feet in afternoon -

August 6 Very calm all day -

August 7 Dr Buchan arrived today to inspect Snn level observatory & make arrangements connected therewith - Mr A. Drysdale also arrived & spent the night on his way to Ben Nevis Observatory -

August 8 Dry, wet. Max, Min in Stevenson, and Max & Min in Thermograph screen tested by Dr Buchan -

August 9 At 14^h the sunshine recorder card was found to be 20 minutes slow - Today Mr Rankin arrived at the observatory -

August 11 New Muslin put on Thermograph Wet Bulb at 12^h - 15^m - Dr Buchan left Fort William this morning & Mr J. Miller came down from Ben Nevis - Mr A Rankin going up again -

August 12 Thunder heard at 14^h - 45^m - Calm all day -

August 13 Sunset at 16^h - 45 min -

August 15 Mr Cresser, telegraphist arrived & stayed over night here on his way to Ben Nevis Observatory -

August 16 Black Bull No 64 (Radiometer) and Min 1447 were sent down from B.N.O. today -

August 17 Today Mr Rankin came down from B.N.O.

August 20 The temperature observations were taken at ~~12^h - 15^m~~ 5 mins late at the Noon observatory -

August 22 today the spare Thermograph thermometer was placed in a packing case in Instrument Room - Robert Macdonald began work as extra clerk -

August 23 Sun set at $18^h 35^m$

August 26 To Mr Omond went up the Ben and Mr Macdonald came down -

August 27 Today Mr Paterson CE took levels from Ordnance Bench Marks. He made the height of the tiled Dorr Step 38.5 feet. The cistern of the Standard Barometer is 3.7 feet above this: It has therefore been taken as 42 feet above Sea Level.

Today Mr Sydney Mitchell called & inspected the buildings.

August 28 Today the Black Bull No 64 was put out on post midway between Stevenson Screen & Sunshine recorder.

August 29 Today Min No 1447 was put out as radiation minimum on temporary wooden board near Stevenson.

August 30 Double rainbow seen at 16^h Mr Macdonald left today & Mr G. Nisbet arrived.

September 4 Today one of the spring clips of Thermograph Drum was broken & taken to Mr Angles to repair.

September Mr J Miller arrived from Edinburgh.

September 5 Today Mrs Miller & Nisbet went up the Ben & Mr Drysdale came down.

September 6 Today Mr Omond came down from the Ben & Mr Rankin left. The Sun set at $17^h 57^m$.

September 7 The sunset at $17^h 57^m$: it began to record at $6^h 50^m$ which must have been shortly after sunrise.

September 8 Hazy all day.

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- September 12 after shifting Barograph drum today one of the two pieces of light blue glass opposite slit was removed.
- September 15 Today Mr Dunsdale left.
- September 17 calm and hazy all day.
- September 18 Misty in morning.
- September 20 Thunder heard at 10^h 48^m. Heavy showers of rain all day. This evening Dr J. Murray arrived in Fort William and visited the Observatory.
- September 24 Today Dr J. Murray left Fort William.
- September 25 clock gauge shifted to other side of Beckley gauge at 10^h 30^m. Strong SW wind force 2-4 and rain in evening.
- September 26^r Very heavy rain in early morning, temporary railway bridge over the Ness damaged and cut corn washed away.
- September 27. When shifting Beckley drum this morning noticed that the Discharger below was partly full.
- September 29. Mr Rankin returned here today. Very stormy and heavy showers all day.
- September 30 Today Mr Ormond went up to Ben Nevis Observatory and Mr Cressat came down & sent one night on his way to Edinburgh.
- October 3^d Heavy spate, sea red with mud from Lochy.
- October 4 Mr Ormond came down from Ben Nevis and spent a night on his way to Edinburgh. The Observatory clock was returned from Edinburgh and was set up in office here.

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October 7th An Aurora was seen at 22^h

October 17th An Aurora was seen at 22^h

October 25th "Cold Band" in spectrum strong at 16^h

October 26th Hoar frost in morning and showers of snow during the day -

October 30 Mr. Omrod returned to the Observatory -

November 1st Sun rose at 9-30. Mr. Rankin went up to Ben Nevis Observatory today - ^(changed thermom. to lower zeros.)

November 4th Very calm all day -

November 5 Sun set at 16^h-5^m.

November 6th At 14^h-30^m screwed up Barograph tube to allow for heavy fall in pressure.

November 7th At 10^h-30^m Barograph tube screwed down again. It was found that the mercury did not fall below about 28.8 inch. owing to some obstruction and not to ~~the~~ the tube being too high.

November 10th Shifted spare gauge back to its former position at 12-30 (see Sept 25th)

Strong SE^s squalls (force 3) in the middle of the day - Similar squally character in the wind on 11th 2 forenoon of 12th but always quieting towards night.

November 11th Wind SE force 0-2 all day -

November 12th Sun rose at 9^h58^m

November 13th When shifting drums at 10-35 took some mercury out of cistern of Barograph Tube.

November 15th Mr. A. L. Potch of Blue Hill Observatory visited Ben Level today and High Level on 16th

November 17 Sun rose at 10-12.

November 19² When shifting drums at 10-20
screwed Barograph tube up slightly -

November 20 Mr. Onond went up to B.N.C. today and W. Rankin
came down. Heavy rain all afternoon.

November 21. Rainbow seen at 2 pm. and a Lunar rainbow
all white was seen between 9 and 10 pm. Showery.

November 22. Barometer pumping all afternoon.

November 24 Rainbow seen at noon. Began using Richards
Thermograph in large screens.

November 26 The snow was down on hills to 600 ft. today.

November 27 Hoar frost in morning. Fine all day. The Barographs
taken off today were found to have been reversed on drums -
the ~~the~~ sensitized sideline turned in.

November 28 Snow falling at and after 10 am. A lamp
was put in the Beckley gauge, but it did not
work satisfactory.

November 29. About 4 inches of snow on ground this
morning, but thawing quickly during the day.
The second copy of the thermogram (T₂) taken off today
was reversed, but the other was all right.

December 2. Fog on Loch Linnhe in early morning.

December 5. Faint Aurora at 9 and 10 pm.

December 6 Time of sunrise at sunshine recorder
today was 11^h. 25^m

December 8 Faint aurora at 9 pm.

Today Mr. Miller came down to assist at L. L. C.
Mr. Stewart going up to B. N. C. to act as cook.

December 9 Fresh snow down to 700 feet.

December 10. Hazy morning. People skating today.

December 11 In Barograph ^{my} taken off today about one hour is blank - light failed owing to smoky chimney - had burners.

December 13 One cask of paraffin finished today.

December 16 Sun up at 11:37 am today.

December 20 Sun at Corona at 10 pm.

December 23 Rainbow seen at 11:40 am.

December 28 Mr. Miller left S.L.C. for Edinburgh.

December 29 Sunset at 15-35.

List of Instruments in use -

Photographic Barograph.

Photographic Thermograph

Standard Barometer M.O. 689.

In Thermograph Screen

Dry Bulb KS 671 : Wet Bulb KS 672

Max No 1032 : Min No 1322

In Stevenson Screen.

Dry Bulb 50850 : Wet Bulb 50852

Max 48194 : Min 1450

Black Bulb in vacuo 64. Radiation Min 1447.

Bechly Rain gauge No 51. Check 8 inch gauge.

8 inch gauge BNO pattern.

Sunshine Recorder No 72.

Richard Thermograph.

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January 5 Today Mrs Mossman and Miller arrived from Edinburgh.

January 6 Mrs Mossman and Miller went up to BNO and G. Vilet came down.

January 9. G. Vilet left for Edinburgh.

January 10 Solar Halo seen at Noon and 14° .

January 14 at 10° Barograph was found to be off paper too high. Screwed down at $10-23$.

January 15 Rainbow, reflected on sea, at 15° .
Today the Radiation Min 1447 was broken.

January 16 Barograph screwed up to former position
~~at $10-40$~~ at $10-57$.

January 19 Solar Halo seen at 14° G. Day arrived from Edinburgh.

January 22 Lunar Halo seen at 21° and 22° .

January 27 Today G. Day went up to BNO and Mr Omond came down. Min 1449 brought down from BNO to act as Radiation Min.

January 28 Mr Omond left for Edinburgh.

February 11 Aurora, bright but no streamers at 20° .

February 12 Sun rose $10^{\circ} 6^m$ Rain gauge (Beckley) tested in afternoon. Mr Omond returned from Edinburgh.

February 13 Mr Rankin went up to BNO

February 19 Sun rose $9-30$ set $16-55$. Afterglow at 18° . Thick hoar frost and hazy fog in morning.

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- February 20 Sun rose 9-35 and set 16-55 - Calm & hazy all day
February 23 Portable Dust counter returned with glass stage.
February 24 Sun rose 9-15 -
February 25 Sun rose at 9-13 - Calm & Hazy
February 26 Sun rose at 9-5 set 17-5
February 27 Sun rose at 9-4 - This afternoon the Beckley rain gauge was dismantled in accordance with instructions from the Meteorological Office London and the Receiver, Float & Discharger sent to Kew - The Mercury Cistern was rusted in & could not be got out.
February 28th Heavy rain in afternoon, Rainband 7 at 11^h
March 2nd Showers of sleet
March 3rd Sleet & hail showers, Wind westerly force 4 at 13^h
March 4th Heavy squalls in afternoon Barometer pumping at 14^h wind up to force 6 between 17^h & 18^h - The Richard Thermograph stopped today & was taken to M Angler for repairs.
March 7th Ground white with snow all day - Sun rose at 8-50 & set at 17-25 - Today the mercury cistern of the Beckley rain gauge was taken out & sent to Kew - The Richard Thermograph was returned from Angler - the mainspring had broke.
March 9th Sun rose at 8-40 Aurora very bright arch but no streamers seen at 23^h
March 10th Sun rose at 8-32
March 11th Sun set at 17-35
March 12th Sun rose at 8-24 and set at 17-33 Aurora seen at 22^h

March 18 Sun set $17^h 45^m$

March 19 Sun rose $7^h 50^m$ and set $17^h 48^m$

March 20 Sun set $17^h 50^m$

March 23 Sleet & Hail fell at 11 am.

March 25 Short heavy snow showers in afternoon ground white next morning.

March 29 Slight snow showers in afternoon. Sun set $17^h 55^m$

March 30 Sun set $18^h 0^m$

March 31 Sun set $18^h 2^m$. Aurora at 21^h and 22^h

April 1st Sun rose $7^h 15^m$

April 4th Heavy squalls in afternoon, blowing the water of Lochail into drift with a whirling or vortex motion, circles or parts of circles of foam being formed on the water.

April 8 Aurora at 21^h and 22^h

April 9 Photo. Barograph clock stopped at 11-4 started again at 12-4 cause of stoppage unknown.
Sun set at 18-10.

April 12. Bright Aurora showing under clouds at $22:40^m$ ~~pm~~
Strong earth currents in telegraph cable.

April 13 Sun rose at $6^h 42^m$

April 16. Rainbow seen at 9^h and aurora at 20^h

April 23rd Sun up at $6^h 25^m$ Barometer pumping slightly in afternoon.

April 24th Today Mr. Ormond went up to B.N.O. and Mr. Rankin came down.

April 27th Solar Halo seen at 16^h . Radius measured by theophanous $21^{\circ} 36'$ and $22^{\circ} 0'$, Hazy and overcast today.

April 28 - Passing showers - at times of snow - Air very clear most of day.

May 1st Rain falling all day.

Today the parts of the S. R. Ranges that had been at Kew arrived here all safe. These were fitted into the gauge and ^{at} 12:40^m it was started.

May 2nd Fresh snow on hills to 1000 ft. in morning.

May 4th An Aurora was seen at 23^h 5^m. The mean of four measurements gave 8° 29' as the height of the top above horizon.

May 10th Changed Thermograph zero-lines today from lower to upper. at 10^h 21^m.

May 11th Heavy dew in morning. Halo seen at noon - Radius 22° 5'.

May 12th Dew in morning. Solar Halo seen at noon and 2 p.m.

May 13th Today the Beckley Range failed to record a fall. of about .030 inch - owing probably to its being held down too much by outside check-screw.

May 15th Fresh snow on hills to 1000 ft. and showers of snow falling in forenoon.

May 16 Showers of snow at 10^h.

May 17 " " " " 21^h.

May 18 Barograph light-index was inadvertently left on clip till 10:17 - started then.

May 19 Solar Halo seen at 9 a.m.

May 20th Barograph clock stopped several times between 10^h and 11^h 20^m today. Cause of stoppage doubtful - probable it was wound too tight.

May 24th Peculiar bright streaks in Wth sky at 9 and 10 pm.

May 27th Passing showers of Rain today.

June 1st At 22^h observed that the lock was riddled by a light N^{ly} breeze, but at the Observatory, the wind was variable or SE.

June 2nd Breezy, south east - wind today.

June 3rd and 4th Strong NE breeze both days, but otherwise very fine. Horse up the Ben on 4th.

June 6th Afterglow at 10 pm.

June 7th The ball of the sunshine recorder was out of focus till 14^h 52^m today.

June 13th Since May 30th no rain fell till this morning when there was a little drizzle. During this time the weather was bright and sunny throughout, but there was frost on the ground several nights.

June 15th Rain fell most of the day.

June 17th Today James Dunlay arrived from Edinburgh and stayed at observatory over night.

June 18th Too hot and stormy for men to go up to B.N.O. today.

June 19th Today James Dunlay went up the Ben.

June 21st Very warm today Max temp 76°. Several people reported having heard thunder in the distance today but none was heard at Obsy.

June 22nd Max temp. $79^{\circ}9$. bright and sunny.

June 25th " " $79^{\circ}9$ " " "

June 26th At 9^h today the temp was $73^{\circ}6$. After noon it fell quickly and heavy thunder showers fell. No thunder heard.

June 28. Dull, cooler, overcast- weather with passing showers today.

June 29 New Muslim and Strands put on all net bulbs today - from 0.10 pm to 0.40 pm.

June 30th Overcast and rain. Rainbow at 9^h 23.

July 1st F.W. annual Holiday.

July 2nd Thunder heard at 13-43 and 13-48 - dull and calm all day -

July 3rd Burns all in spate in morning. Today Mr Omond and Day came down from Ben Vens and Mr Rankin went up -

July 4th Today George Day left Fort William.

July 8th Continuous rain up to about 17^h

July 9th Sun set at $19^h 46^m$ Really Cirrus seen at Midnight - some measurements taken of its altitude.

July 13th Sun set at $19^h 43^m$

July 14th Sun set at 19-38

July 15th Sun rose at 5-7 but did not record till 6-57

July 16th Mist hanging about hills low down in evening.

July 17th Mist low down on hills till after 4 pm - clear evening Sun set at $19^h 33^m$.

July 20th Today Mrs P.F. Gillies & C.E. Gray arrived - Mr Gillies stopping at Hotel.

July 21st Sun set at 19^h-27^m . Today Mrs Gillies & Gray went up Ben Nevis and Mr J Miller came down and spent one night here.

July 23rd Barograph clock stopped repeatedly after 10^h - escapement had got dirty, restarted shortly before 1st hour.

July 29th Afterglow seen at 21^h .

July 31st Sun set at 19^h-6^m .

August 1st Fog hanging about hills all day at 500 feet.

August 2nd at 10^h the funnel of the Bechley was found to be choked, so that some water (0.062 in.) was lying in funnel.

August 3rd Heavy plumps of rain Thunder and lightning at 17^h-57^m .

August 5th Today Dr Buchan inspected this station and tested thermometers etc.

August 12th Barograph clock stopped frequently today.

August 29th Aurora seen at night - Barograph clock stopped frequently during afternoon; oiled and started again after midnight.

Sept 1st Today Mr Ormond returned to the Oban.

Sept 2nd Today Mr Rankin went up the Ben & Mr Gillies came down.

Sept 3rd Sun set at $18-0$. Today Mr Gillies left for Edin. and Mr Miller arrived at Oban.

Sept 4th Today Mr Miller went up the Ben and Mr Rankin came down.

Sept 5th Today Mr Rankin left for home.

- Sept 12 Sunrise about 6-40 and set at 17-50.
Sept 15 Today Mr C. Stewart came down from Ben Nevis.
Sept 17 Today Mr C. Stewart left Fort William.
Sept 18 Today Mr R.E. Mossman arrived from Edinburgh.
Sept 19 Lunar Halo seen in evening - Three measurements
 gave Radius to inside of ring $23^{\circ} 27'$, $24^{\circ} 6'$, and $21^{\circ} 13'$
 Today Mr R.E. Mossman went up Ben Nevis.
Sept 21 Today Mr J. Sorley called at Low Level Obey and
 went up Ben Nevis.
Sept 23 Sun rose about 7-45 - Today S. Day came
 down from Ben Nevis and spent one night at
 Low Level Obey.
Sept 26 Today Mr C.E. Gray came down from Ben
 Nevis for a few days and S. Robertson arrived
 from Edinburgh.
Sept 28 Today Mr R.T. Omond went up Ben Nevis
 Mr A. Rankin came to LLO and Mr R.E. Mossman
 left Ben Nevis and went to Oban.
Sept 29 Today Messrs Gray & Robertson went up
 Ben Nevis.
Sept 30 Today Mr J. Miller came down from Ben Nevis.
October 2 Today Mr A. Rankin went up Ben Nevis and
 Mr R.T. Omond came down.
October 3-4-5 Mr T.W. Baker from New Obey examined
 instruments during these days leaving at 4 pm
 on 5th for Banavie.
October 6 Thunder and lightning 19-10 to 19-15 -
 Three photos taken in Mr Mossman's Kodak.
October 7 Today Mr Omond went to Oban for the day.

October 9 Shower of Hail at 19^h

October 12 Lightning about 26^h-40^m.

October 13 Very low barometer and heavy SE gale at night
Lowest Barometer — on Barograph curve — 27.928 at
23^h-8^m this reduced to sea level gives 27.971.

October 16 Today Mr C.E. Gray came down from Ben Nevis and
spent the night at LLO.

October 19 Today Mr R.T. Ormond left for Edinburgh leaving
Mr J. Miller in charge.

October 28 Today Mr R.T. Ormond returned from Edinburgh.

October 29 For some time the Thermograph clock had gone
badly owing to light shutter gear catching and today it was
found that the clamping screw on releasing lever was
loose. This was tightened up and the clock went
perfectly.

October 31 Sun rose at 9^h-30^m and set at 16^h-10^m but failed to
record after about 15^h-35^m owing to getting behind chimneys
of house to SW of LLO.

November 1 Sun rose at 9^h-30^m

November 2 Sun rose at 9-37 and set at 16^h-4^m

November 6 Fresh cask of oil got lamps.

November 7 Sun rose at 9^h-50^m

November 12 Sun set 15^h-48^m

November 14 Today Mr John Patterson CE took levels
and determined the following heights near the Obsegy —
Tiled doorstep of observatory — as before see page 6 — 38.5 ft.
Rim of Beckley Rungange 33.7
Centre stone at observatory gate 24.3

Floor of Mr Livingston's lobby	29.5 ^{feet}
Rim of Mr Livingston's rain gauge	35.2
Flagstone at Mr Livingston's gate	20.0
Stone base of street lamp opposite Prison	20.8
" " " " east of Lockiel Villa	20.7
Top of middle of road parapet at Boat house	22.9
Top of South parapet of Ash-burn Bridge over keystone	27.0
Note Cistern of Mr Livingston's Barometer is	
3.1 feet above floor and therefore above sea level	32.6
Cistern of Standard Barometer in Observatory is	
3.8 feet above tiled door step & therefore above sea level	42.3

November 15 Sun set 15^h 40^m

November 16 Sun rose at 10^h 16^m

November 17 Sun rose at 10^h 20^m Red glass put in
windows of photographic room today.

November 21 Sun rose at 10^h 30^m

November 22 Sun rose at 10^h 32^m

November 24 Calm and hazy in morning sky overcast.

November 26 Mr. Rolch of Blue Hill arrived at Fort William
yesterday on a visit to this Observatory and left
today.

November 27 Mr. Omond went up to B. N. O. and Mr. Randle
came down here.

November 28 Stormy in evening, with squalls and
heavy rain.

November 29 For some time the light shutter of Thermograph
has been acting unsatisfactorily. Examined the instrument

today and found some screws rusty, and rough. Put some oil on.

December 7th. Aurora seen at and after 7 pm.
 " 8th Mock sun seen at 11:30 am.
 " 9th Heavy rain all last night, and today.
 " 10th Halls seen at noon. Rain and snow at night.

December 11. Snow to sea level this morning, and showers during the day.

December 12. Put out one of the 5 inch B.N.O. rangings new pattern.

December 15. Heavy rain at night.

December 17th Heavy frost in morning.

December 21st Today Mr. A. Brysdale arrived here on his way to B.N.O., and stayed over night.

December 22nd. Today Mr. Brysdale went up to B.N.O. and Mr. J. Miller came down; and Robert McDougall left on holiday.

Dec 26th Heavy rain all day.

Dec 29th Thunder was heard by some people at 8 am, and lightning was seen then and again at night.

During the Year the Instruments noted at the end of last year have continued in use. (p. 10). From Feb. 27 to May 1st the Buckley ranging was under repair. (p. 12 & p. 14). On August 5th the Station was inspected by Dr. Buchan. And on Oct. 3-5 Mr. Baker examined the instruments. Sea temperatures have been taken occasionally since Oct 7th by means of one of Mr. Osmond's boats.

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January 6th Today Mr. Miller went to Edinburgh and Robert McDougall resumed duties at the Observatory.

Four inches of snow on ground at night

January 8th Snow falling all day: at noon it lay $7\frac{1}{2}$ inches deep on terraces in front of Observatory.

January 12th Lunar Halo seen at 10:30 pm
at 11 pm the Cirrus clouds moved from W.
New Scales for tabulating the Thermograph
Curves arrived from M.O. today. They include
1 Glass and Ivory scale for Dry Bulb
1 " " " " " " for Wet bulb
— 1 " " " " " " for Barograms.

January 15th Mr. Miller and a guide tried the ascent to B.N.O. today but had to return the snow lying too deep on hill-side.

January 18th Today Mr. Miller and a guide managed to reach the Summit: and Mr. Drysdale came down.

January 19th Mr. Drysdale left for Edinb. today.

January 26th Halo seen at 4 pm.

January 27th Heavy rain during last night and all day. Burns in shape all around.

January 28th & 29th Heavy rain. both days. Rivers and burns in flood, owing to rapid thaw on hills.

February 2nd. Cold squally SW^{ly} winds and showers

February 2nd Snow during last night; and showers of sleet and snow till noon today.

February 9th. Clouds very low all day, and drizzling rain falling, with light SW^{ly} wind, and temp. over 40°.

February 11th. Today, the Ben Nevis 5m. gauge was taken in and readings discontinued.

February 13th. Owing to the high pressure, and at request of M.O. (Telegram) the barograph tube was lowered at 10th 47th pm.

February 14th. Barograph tube was raised today to at 10th 22nd to its previous level.

February 16th Snow on ground in forenoon.

February 18, 19, 20th. Temperature very low these days, the minimum in shade being 16.4, 11.8, 18.0, and on grass at night-13.0, 5.7, 11.2 respectively.

February 21st. A little snow fell last night; and showers during the day.

February 29th. Since the 21st the weather has been cold but ~~clear~~ otherwise fine, with some haze on 25th 26th and 27th. Today the muslins were changed on all the Wet bulbs.

March 1st. Aurora seen at 9 and 10 pm.

March 2nd. Aurora low and faint after 10 pm.

March 5th. Very hard frost - ice floating down the loch at noon. Hazy, but sky pretty clear.

March 6th. Thick haze all round.

March 8th. Mr. Moreman arrived on his way to B.N.O.

March 9^d Heavy fall of snow in evening. a lunar halo was seen at 10 pm.

March 11^d Today Mr. Mossman went up to B.N.D.

March 12^d Mr. Ormond came down to L.L.O today

March 15^d Mr. Ormond left for Edinburgh.

March 16^d Solar halo seen at 10 am. Heavy rain in evening

March 17^d Overcast or cloudy all day: rain in forenoon

March 20^d The 9 am readings were taken at 9:10 am: no use made of them except for daily report:

March 21^d Cloudy and hazy.

March 22^d Halo seen at 4 pm.

The tube of barograph was lowered at 11:6 pm

March 24^d The tube of barograph was raised to its former position at 10:21 am.

March 25^d Clouds very low all day, and drizzling rain falling.

March 26^d Overcast and showers of snow.

Aurora seen at night.

March 27^d Aurora seen at 10 pm. — one low or arch and short streamers

March 28^d Aurora seen at 9 pm

March 29^d Halo seen at 2 pm.

During the last week the temperature has been very low, and there have been frequent breaks in the wet-bulb record owing to the instrument getting dry.

March 30^d Decided rise in temperature today.

A peculiar bright patch was seen in W. sky through thin cir. s after 10 pm.

April 1st Thick haze all day.

April 2nd Thick haze all day. Solar Halo seen at 10 am, Noon, and 2 pm

April 3rd Thick hazy weather, but very warm. the max. being 68.1 in Stevenson screen, and 66.0 in M.C. screen. The daily range was over 35° degrees

April 5th Overcast and rain in morning.

April 6th Solar halo seen at 4 pm.

April 11th Since the 8th the weather has been very fine. Sky almost or quite cloudless every day, and temperature high. the maximum being over 60 each day.

April 12th Much colder today. the maximum temperature being only 46.0.

April 13th Very cold all day, with showers of snow in evening.

April 14 Mr. Gaird returned from Edinburgh this evening.

April 15 Today Mr A. Rankin went up the Ben and Mr R.C. Mossman came down. At 4 pm the ground was white with snow hail

April 16 Today Mr R.C. Mossman left for Edinburgh.

April 18 Today S. Weir arrived at 11.0.

April 19 Solar Halo seen at Noon - Today S. Weir went up the Ben and G. Robertson came down.

April 20 Today G. Robertson left on holidays.

April 26 Sun set at 18.33

April 27 Ground white with snow at 9^h Wind NNE force 4 at 17^h

- May 3 Sun set $18^h 46^m$
May 4 Sun set $18^h 48^m$ afterglow at $20^h 40^m$
May 5 Sun set $18^h 49^m$ afterglow at $20^h 40^m$
May 6 Sun rose about $5^h 35^m$ and set $18^h 50^m$.
May 7 Today the painters and paperhangers began work.
May 10 Very thick haze all day.
May 12 Thick haze in middle of day.
May 16 Sun set $19^h 2^m$ shifted zeros of Thermograph
on 12^{th} and again on 16^{th} May.
May 19 Solar Halo seen at 14^h .
May 20 Sun set at $19^h 16^m$.
May 23 Today G. Robertson returned from Edinburgh
and spent the night at West End Hotel.
May 24 Today G. Robertson went up the hill & S.
Weir came down, stopping at West End
Hotel over night & leaving for Edin. next morning.
May 29 Sun set $19^h 35^m$.
May 30 Today the low level observatory was restored
to good order after the painters & paperhangers
had left & all cleaning finished.

- June 9 Sun rose about $5^h 20^m$ (?)
June 12 Sun set at $19^h 44^m$
June 21 Sun rose about $4^h 38^m$ set at $19^h 48^m$
June 24 Thermograph Screen painted this afternoon.
June 25 Began to set up new sunshine pillar.
June 28 Outside of thermograph screen being painted
in afternoon.
June 29 Sun set at $19^h 49^m$

July 1st Today Mr J. Craig arrived from Edinburgh.

July 4th Today S. Weir arrived from Edinburgh.

July 6th Today J. Craig & S. Weir went up the hill & S. Robertson came down.

July 7th Today S. Robertson went to Edin. & J. Miller came down from the top.

July 10th Sun set at 19^h 44^m.

July 11th Today Mr Curran Telegraphist arrived from Edin.

July 12th Today Mr Curran went up the hill.

Aurora seen at night.

July 15th Mr. J. Miller left for Edinburgh - holiday.

July 20th Mr. Omond went up the hill today and Mr. Ramsay came down.

July 21st Overcast. clouds low all day.

July 24th Today Hugh Ramsay ascended hill to take Mr. Craig's place - the latter having hurt his hand.

Thermograph clock stopped today owing to the shutter gear becoming loose.

Pearly cirrus seen to N' & N.E. at night.

July 25 The light breaks on the thermogram that came off today are at the odd hours since 1 pm yesterday, the clock pointer having been short an hour + or -.

Bright Polar Halo seen at 12 to 2 pm.

July 26th Max. temp today 73° 5'. Very fine all day.

Today Mr. Craig came down to this Observatory.

July 30th Today Mr Edward Whymper arrived in Fort William and called at Observatory.

August 5th A Lunar Halo was seen at 10:40 pm.

August 6th Mr. Craig left for Edinburgh this morning.
 August 10th Mr. Whymper left Fort William today. Since his arrival on 30th July he has been up the Ben five times. Readings were made of a number of Anaroids he carried with him at both observatories.

August 11th Today Mr. Chs. Stewart arrived at Low Level Observatory: also an excursion party from Brit. Assⁿ including Mrs. Petch and Mosman and several others arrived in Porton this evening.

August 12th Today the B. A. excursion party ascended the Hill accompanied by Mr. C. Stewart of the party, remained all night on Summit and the rest came down accompanied by Mr. Omond.

Today ~~the~~^{fresh} muslins and strands were put on all Net Bells.

(During the last two days a school of from 40 to 100 Whales have been swimming about in the Loch.)

August 19th Station inspected today by Dr. Buchan -

August 20th Today Mr. Hugh F. Rankin came down the hill and stayed over night at the Low Level Obsy.

August 21st Today Messrs Angus & Hugh F. Rankin left the Obsy.

From Aug 20th to Aug 23rd inclusive Baro. No 954 formerly at the Schoolhouse Fort Wm. was hanging in Instrument Room & was read along with the Obsy. standard. On the Mean it read 0.001 higher than Observatory Standard.

the Obscy Standard being corrected for index error and reduced to 32° - No 954 being reduced to 32° only - On Aug 24th Mr Angus Rankin took No 954 with him on his way to Dunvegan.

August 30th Today an Anemometer was fixed on a post about 7 feet high beside the new Sunshine pillar in the field at back of Observatory - It is to be read daily at 2 pm and the mileage entered on SMS schedule, the date being that on which it is read.

August 31st Stevenson Screen painted this afternoon.

September 1st Today Mr A. J. Herbertson arrived at LLO.

Sept 2nd Hail fell at 9^h-30^m am.

Sept 4th Sun set at ~~16^h-5^m~~ 18^h-5^m

Sept 8th Today Mr A. J. Herbertson went up Ben Nevis

Sept 13th Today Dr John Murray visited the LLO Obs. Sun set at ~~18^h-50^m~~ 17^h-50^m.

Sept 15th Today Prof J. A. Kinn arrived at the LLO Obs and stayed overnight - He examined the building to find a suitable site for Seismometers.

Sept 21st Aurora seen at 21^h and 22^h

Sun rose about 7^h-25^m and set about 17^h-35^m.

Sept 22nd Aurora seen again at 21^h and 22^h

Today Mr Curran - Telegraphist - came down from the High Level & staid over night at LLO.

Sept 23rd Today Mr Ormond went up Ben Nevis returning the same evening. After 21^h the BVO pattern Rain gauge was shifted to new site at top of middle garden walk.

Sept 26 Today Mr Angus Rankin returned to the LLO Obs.

Sept 27 Today Mr R. T. Ormond left for Edinburgh.

Sept 28th Double Rainbow seen this afternoon
Mr A. J. Hubertson came down from High School Obs.

October 13 Aurora seen at 21^h

October 20 Halo and Mock Suns seen at 14^h

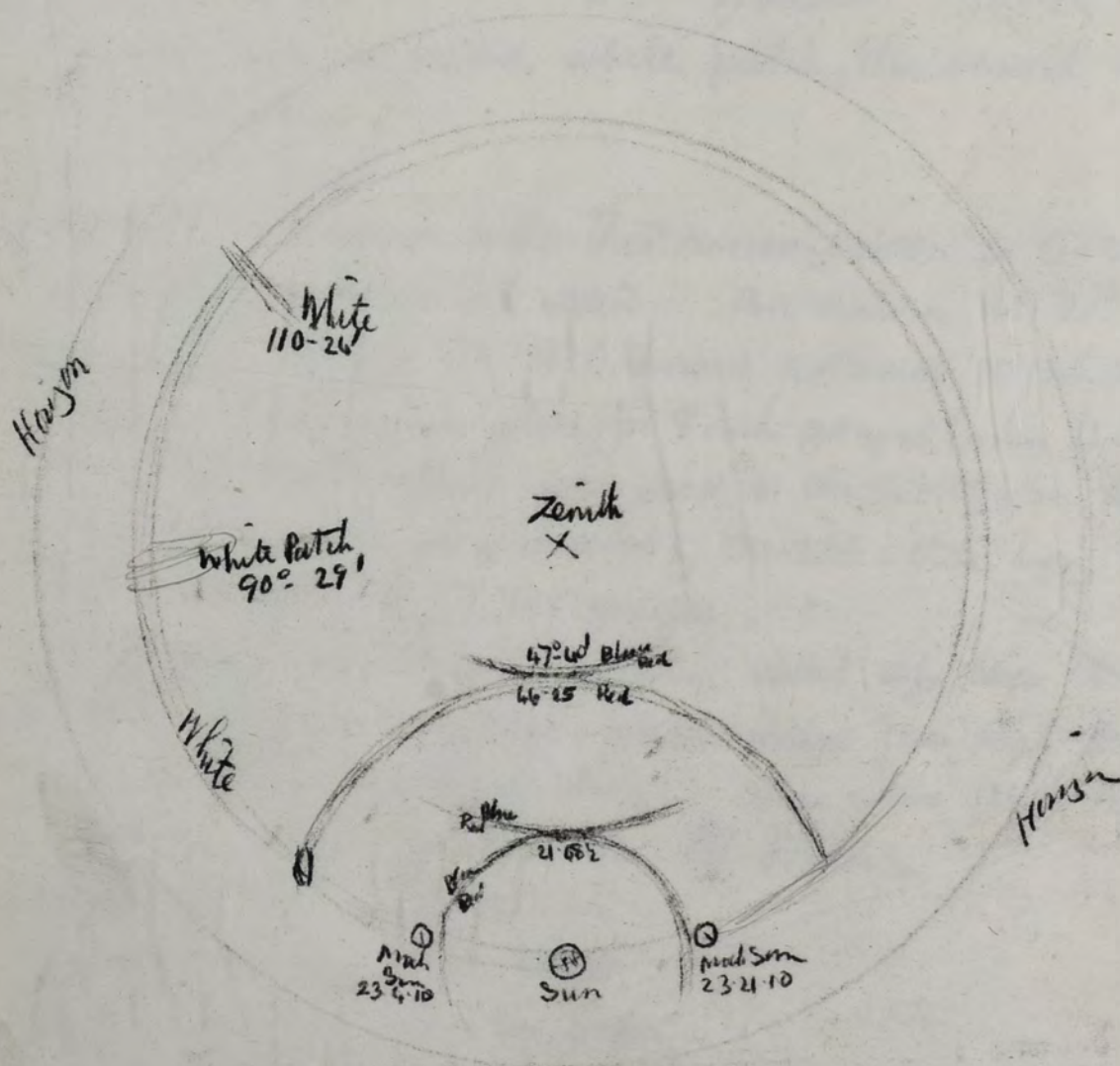


Diagram of Halo etc.

Mock Suns lay outside first Halo, Radius to Left M.S. $23^{\circ} 4' 10''$
 " Right " $23^{\circ} 21' 10''$
 " of First Bow $21^{\circ} 48' 30''$

Radius to Blue of Second Halo
 " Red " "

$47^{\circ} 40'$
 $46^{\circ} 25'$

Horizontal White Bar was almost complete, it appeared to slope down to the Southward being lowest South of observer — Sun about WSW. It was crossed by two transverse bars approximately vertical — Radius of one $90^{\circ} 29'$
 " of second $110^{\circ} 24'$

The first was a mere white patch, the second was more distinct —

October 22nd Snow on hills this morning down to 500 feet. Sightings seen at 20° An aurora at 21°

November 1st Today Mr R. T. Grund returned to S. L. Oby.

Nov- 4th Rain gauge glass for 8 inch gauges broken today. The Beckley glass was used & the readings in it multiplied by 100 and divided by 50-266: these being the respective areas of the two gauges.

Today Mr Angus Rankin went up Ben Nevis. Nov 5th Today Mr J. Miller came down from High Level to stay at Low Level Oby. New glass for 8 inch gauge came from Met. Off. London.

Nov 11th Sunrise about $9^h - 50'$

Nov 13th Sun rose about $10^h - 0'$

Nov 15th Rain how seen at Noon.

Nov 21st When setting Max No 1032 at 22° in large screen it was broken — Nov 23rd Sun rose $10^h - 35'$

Nov 24th Aurora seen at 21° & 22°

Nov 25th Sun rose at $10^h - 38^m$ Halo seen at 14°

New Max. thermometer. No 1092 arrived from Met. Office.

Nov 30th Ground white with snow in morning —

December 2 Sun rose about 11^h 0^m.

Dec 3rd Thunder & lightning at 10^h 15^m Heavy rain at time and hail immediately after.

Dec 6th after glen observed at 16^h.

Dec 16th Heavy rain 15^h to 23^h.

Dec 19th Today Mr R. T. Ormond left for Edinburgh. Leaving Mr J. Miller in charge.

Dec 21st Today Mr S. Weir came down from Ben Nevis and spent the night at Oban on his way to Edinburgh.

Dec 23rd Aurora seen at 22^h 22^m.

Dec 28th Today Mr R. T. Ormond returned to the observatory from Edinburgh.

Dec 31st Sun rose about 11^h 50^m.

The following instruments were in use during 1892.

Photographic Barograph and Thermograph.

Beckley Rain Gauge, Spore Gauge and BNO pattern Gauge. This last was moved to the top of middle garden walk NE side at 21^h 22^m on Sept 23rd.

The Richard Barograph & Thermograph were also in use.

Standard Barometer No 689 was used through out the year.

Bmo. No 954 was compared with Oban Standard between August 20 & 23 before being sent from Schoolhouse F.W. to Dunvegan.

In the Thermograph Screen Dy 671 Wet 672 Min 1322 were used throughout the year. Max 1032 was used up to Nov 21st 22^h 22^m when it was broken, and Max 1092 was used after Nov 25th 22^h 22^m.

In Stevenson Screen Dy 50850 Wet 50852 Max 48194 and Min 1450 were used.

Black Ball No 64 and Ground Min 1449 were also used. The sunshine Recorder was placed on a new pillar in field at back of Observatory on Sept 1st. It will be there always except in summer as a new house adjacent to the Observatory shades the old site except when the sun is high. The old site may be used when the longest cards are in use only.

A small Anemometer was set up on a post about 7 feet high alongside the New Sunshine Pillar on August 30th. It is read daily at 14 hours. The Stephanoime has been in occasional use.

Sea temperatures — surface only — have also been taken at irregular intervals.

The Observations were carried on by Mess R.T. Omond, A. Rankin and J. Miller.

The Station was inspected by Dr Buchan on August 19th but was not visited by any one from Kew this year.

January 2 BNO pattern rain gauge shifted back to its original place after 10 hrs -

Jan 5 Fog on loch at 2 1/2 and over Obsewaty most of the night following -

Jan 9 Sun rose at 11^h 15^m and set at 15^h 52^m.
Amora with streamers seen at 21^h and 22^h

Jan 10 Sun set at 15^h 51^m

Jan 11 Sun set at 15^h 53^m, Bright flashing
Amoral streamers seen at 21^h

Jan 12 today Mr J Miller went up Ben and
Mr A. J. Herbertson came down -

Jan 13th Fine clear day: frost on ground and fog on loch
in morning.

Jan 14th Today the barograph tube was screwed up at
10th 16^m (It had been screwed down on 11th 10th 15^m)

Jan 15th Overcast all day: rain at night.

January 16th Cloudy or overcast: fog on loch in evening.

January 17th Today R. McDougall returned after fortnight holiday
and Sam Weir of B.N.O. arrived from Edinburgh.

January 18. Mr Ormond & Sam. Weir ascended to BNO
today and A. Rankin and W. Stewart came down
Mr. Herbertson left L.H.O. for Edinburgh this morn.

January 19th Overcast and rainy. The spirit of the
min in Stev. box had an air bubble in column with
index foul of it. at 9 pm. Put right and set at 10 pm.

January 20th Cold stormy day: heavy showers of snow
rain and hail.

January 23rd clouds down to 200 feet in afternoon with
drizzling rain -

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- January 25th Hail fell at 14^h 10^m
January 28th Thermograph clock stopped owing to cover box being pushed over and catching light-stop gear. Restarted 10^h 22^m.
January 29th Lunar Halo seen at 22^h 5^m
February 2nd 12^h observation taken at 12^h 9^m
February 8th Fresh snow in morning down to 800 feet.
February 9th Thunder and lightning at 19^h 45^m and lightning only at 22^h 30^m
February 15th Aurora seen at 21^h
February 21st Lunar Halo at 21^h
February 28th Snow falling heavily and lying on ground at 9^h
March 2nd Lunar Halo at 21^h and 22^h
March 9th Squall with heavy rain at 15^h 50^m
March 16th Large white conical snow falling at 22^h
March 26th Bright Aurora with streamers reaching to zenith at 21^h and at 22^h
March 29th Solar Halo and Mock Sun seen at 10^h and 14^h
April 4th Barograph clock cleaned and adjusted 10^h to 12^h 15^m
April 6th Shield of Barograph tube slipped, readjusted and put right, not working 10^h 40^m to 11^h 15^m.
 Thunder and lightning almost continuously from 18^h to 20^h 15^m and at intervals to 21^h 15^m Strong earth currents in telegraph wire -
April 10th Mr Charles Stewart arrived from Edinburgh
April 11th Aurora at 22^h
April 12th Mr Ch. Stewart went up Ben Nevis and Mr Omond came down -
April 13th Sun set 18^h 22^m
April 16th Snow lying to sea level -

- April 18th Mr Ormond went to Edinburgh.
April 23rd Zeros of Thermograph changed to Summer lines -
April 27th Cuckoo heard for first time this year.
April 28th Solar Halo at 10^h
May 9th Solar Halo from 9^h to 12^h
May 11th Mist almost to sea level at 9^h
May 12th Messrs J-Y and F. Buchanan here -
May 15th Examined and partially cleaned Beckley clock 10^h 7^m to 11^h 11^m.
May 19th Thunder at 15^h 40^m and Thunder & lightning 16^h 35^m.
May 21st Thunder and lightning with very heavy rain and hail from 12^h 54^m to 13^h 20^m.
May 25th Clock of Beckley gauge regulated 10^h 10^m to 10^h 30^m.
 Today Mr Ormond returned from Edinburgh.
May 26th Fresh mussels put on wet bulks 12^h 17^m to 12^h 49^m
May 29th Today Mr A. Rankin went up ~~the~~ Ben Nevis and Mr J. Miller came down.
 Sun set 19^h 38^m
June 9th Thermograph clock found stopped, restarted 10^h 7^m.
June 11th Sun set 19^h 47^m
Note For the last few days the diurnal variation in the wind direction has been well marked; Namely. Calm in morning, SW breeze in afternoon and N in evening.
June 12th Thunder between 15^h and 16^h
June 13th Thunder between 12^h 30^m and 13^h 30^m and again between 16^h and 19^h
June 17th Sun set 19^h 48^m Sky cloudless at 22^h overcast at about 200 feet height at 23^h and fog on at 23^h 30^m. This cloud layer had come up from the SW and did not rise above 1000 feet.

June 18th afterglow seen at 22^h

June 19th The telegraph has been in bad order ever since the thunder storms on June 12th and 13th and this evening broke down entirely so that daily report was not sent to newspapers.

June 23rd Thermograph clock at 23^h 10^m restarted 23^h 20^m.

June 26th Mock Sun seen to North of Sun at 19^h 50^m the sun having set behind hill a few minutes before.

June 30th Today Mr J. I. Craig arrived at Observatory from Edinburgh.

July 1 Solar Halo seen at 9 am.

July 3 Today Mr J. I. Craig and R. Macdonald went up Ben, the former as observer & the latter as telegraph clerk.

July 4 Today Mr A. Rankin came down from Ben.

July 5 Sun set 19-50.

July 7 Thunder & lightning very severe from 22-50 to midnight. Strong earth currents in telegraph cable, all or mostly "dashes". Rain began at 23-20. Storm seemed to move from SE to NW. Several flashes were followed by thunder at about 3 seconds interval.

July 8th Thunder and lightning again - a second storm between 1^h & 2^h and again between 14^h & 16^h. These storms did not pass so near.

Mr J. Y. Buchanan visited Observatory on 7th & 8th & 9th and conducted experiments on evaporation.

July 9th 10th Thunder between 17^h and 18^h.

Solar halo seen at 18^h 10^m.

at 23^h-15^m Standard Barometer shifted from SW to NW wall of Instrument Room. Height not altered -

July 11 Thunder heard at 15^h 5^m

Today brick pillar for seismometer was put up in instrument room - The Barograph showed a shaking equal to about 0.020 inch below the time curve - This was probably half the total shaking -

July 19 Clouds about 1000 feet height all day - rising at night -

July 24^e Thunder heard at 16^h-40^m -

Today floor in instrument room under seismometer pillar was relaid -

July 26 Sunset 19^h-26^m -

July 27 Today George Day arrived at Observatory from Edinburgh -

July 28 Today G. Day went up Ben and S. Weir came down -

July 29 Today J. Miller & S. Weir went to Edinburgh.

August 3 Today Mr. A. Shand arrived from Edinburgh.

August 4 Today Mr. A. Herbertson arrived from Edinburgh. Mr. Shand went up Ben Nevis and Mr. Craig came down -

August 5 Today Mr. A. Rankin returned to Observatory and Cera lamp was put on Barograph after 10^h -

August 6 The 8 inch rain gauge glass was broken this morning by dropping spirit level on it -

August 8 Today Mr. Craig left for Edinburgh and Mr. Hugh F. Rankin arrived at Observatory -

- August 9th Sun set 18^h 55^m -
August 10th Thunder heard about 18^h -
August 11th New 8 inch rain gauge glass received from M.O.
August 12th Today Mr F Hambly arrived at Observatory to assist Mr Herbertson -
August 14 Today Messrs F. Hambly & A Rankin went up Ben -
August 15 Thunder & lightning 20^h 30^m to 22^h and again 23^h to Midnt
August 16th Muslin's put on Wet Bulbs 16^h 10^m to 16^h 25^m
 Today Messrs Hambly & A. Rankin came down from Ben -
August 17th Received 500 new Guide Books from Constable -
August 19th Today Mr Angus Rankin went up Ben Nevis to carry on Mr Herbertson's work there -
August 21 Strong squalls all day wind S force 6 about 15^h
August 25 Put cera lamp on Wet Bull this evening -
 Today Dr Buchan arrived in Fort William -
August 26 Put Cera lamp on Dry Bull - All three lamps are now Cera - Mr Herbertson left for Edinburgh.
August 27 Dr Buchan inspected Station today -
 Joiners fitted up Case for Seismographs -
August 30 Mr Herbertson returned from Edinburgh.
September 1st Messrs Hambly & Hugh F. Rankin left the observatory -
Sept. 2 Today Mr T. Mann arrived at Observatory to assist Mr Herbertson - Sunset 18^h 12^m -
Sept 4 Seismograph case finished by painter joiner etc.

September 7 Today S. Weir arrived from Edinburgh.

September 8 Aurora seen to NNW extending up to about 20° at 21^h

Today S. Weir went up Ben Nevis and G-Day came down.

September 9 Today a new Stevenson Screen was set up near and to SE of old one -

S. Day left Observatory for Edinburgh.

September 12 Today Mr. Marr went up Ben Nevis to carry on Mr. Herbertson's work there -

Mr. Baker from Ren arrived in Fort William.

September 13 Today Mr. Rankin came down from Ben Nevis, and Mr. Baker inspected the instruments overhauled clocks etc.

September 14 Mr. Baker continued inspection, dismounts Beckley gauge etc.

September 15 Today Mr. Baker finished inspection and left Fort William - Mr. Herbertson also left.

September 16 Sun set $17^h 48^m$.

September 18 Today Messrs Ch. Stewart and T. Marr came down from Ben Nevis and Mr. Omond went up.

September 20 Today Mr. T. Marr left Observatory.

September 21 Today Mr. Ch. Stewart left Observatory and Mr. A. Shand came down from Ben Nevis.

September 25 Today Mr. A. Shand left Observatory. Solar Halo seen at 12^h and 14^h

- October 5 Lightning seen all evening -
October 10 Rainbow seen at noon -
October 12 Rainbow seen at 14^h
October 13 Solar Halo at 10^h and 12^h
October 14 Clouds very low not above 200 feet all forenoon -
October 15 clouds still low not above 500 feet all forenoon.
October 17 Today Mr J Miller went up Ben Nevis and Mr Omond came down -
October 21 Today Mr Omond left Oban for Edinburgh -
October 25 Rainbow seen at 14^h Thunder and lightning at 22^h
October 29 Aurora seen at 18^h 30^m -

- November 1st Thunder heard at about 16^h 15^m
November 21st changed zero lines of photo. Thermograph -
November 24 Today Mr Omond returned from Edinburgh - Lunar Rainbow seen at 20^h 25^m with faint colour, Red outside Blue inside -

- December 4 Today Mr Rankin went up Ben Nevis and Robt Macdonald came down -
December 8 Very low barometer in forenoon.
 bar 28.212 at 10^h 5^m (or 28.256 at sea level)
 Heavy hail shower at 13^h 20^m
December 11 Thunder heard after 10^h and lightning seen after 22^h. Ground white with snow at night.

December 23 Today Mr T. R. Mann arrived at Observatory to continue Hygrometrical observations for Mr Herbertson -

The instruments in use were the same as last year. On July 10th at 23^h. 15^m Standard Barometer was shifted from SW to NW wall of Instrument Room; height not altered. The 8th Rain gauge glass was broken on August 6th and a new one received from Meteorological office on August 11th. On September 9th a new Stevenson Screen was put up close beside and to the SE of old one; but it has not yet been used. Mr A. J. Herbertson, assisted by Mr F. Hornbly and Mr T. R. Mann conducted Hygrometrical Researches in August and September at the Observatory.

A Richard Horn Hygrometer was added to the instruments in August, and for some time an additional Thermograph was worked as a wet Bulb. Seismographs supplied by Prof. J. A. Ewing were erected on a special pillar in Instrument Room during the autumn.

Dr Buchan inspected the station on August 27th. Mr Baker from Kew inspected station, overhauled instruments etc on September 13th, 14th and 15th. The Beckley gauge was improved by him by altering the capacity of the discharger.

Observations were carried on as before by R. P. Ormond, A. Rankin and J. Miller -

January 6th Snow dry and powdery in morning. at 9^h it was drifting about freely.

January 12th Between 23^h-55^h and Midnight a slight shock of Earthquake was felt by several people in Fort William. The Duplex-pendulum Seismometer showed a distinct trace of it: the other large Seismograph is not yet in working order. This shock was not felt by any of the observers at the High Level Observatory.

January 14th Today Robt. M'Dougall went up Ben to take the place of A. Rankin who had sprained his ankle and could not continue observing.

January 20th Double Rainbow seen at 11^h 20^m.

January 21st Lunar corona seen at 21^h.

January 22nd Sun set at 16^h 3^m.

January 23. Snow began heavy at 16^h 20^m.

January 25th. At 2^h snow was 4 inches deep.

February 1st 3 inches of fresh snow on ground at 9^h.

" 3rd Today James Nicoll came down from B.N.O.

" 6th Very heavy rain all day.

" 8th Thunder and lightning about 4^h today.

" 11th Barograph tube screwed up at 12^h 15^m today.

" 12th Barograph tube screwed down today at 16^h 39^m.

" 21st Rainbows seen at Noon and 15^h 52^m.

" 23rd Hail showers in afternoon Thunder after 22^h.

February 24th. Showers of hail and snow all day
 " 27th. Flashes of Lightning seen between 20^h & 22^h.
 " 28th. Thunder at 13^h 43^m and earth currents on
 wire there and all the evening.

March 1st. Hail showers in evening: Lightning seen at night.
 " 3rd. Hail showers in afternoon. Ground white at 22^h.
 " 6th. Lightning in early morning.
 " 10th. Today Mr. Ormond went down to Olean
 " 11th. Heavy Hail showers.
 " 12th. Mr. Ormond back from Olean with Barometer
 No 690. which was hung up in instrument room
 " 13th. Barometer No 689 dismantled today after 22^h.
 and No 690 is to be used instead.
 " 14th. Mr. Ormond off to Edinburgh taking Barometer
 No 689 with him.
 " 22nd. Mr. Ormond returned from Edinburgh.
 " 27th. Today Mr. Ormond went up to B.N.O and
 Mr. Rankine came down.
 " 31st. Aurora with streamers at 22^h. Lightning
 seen later.

April 6th. Aurora seen at night.
 " 11th. Thunder heard between 17^h and 18^h.
 " 17th. Mr. Mossman arrived at Observatory today
 " 19th. The 21st and 22nd observations of Barometer were
 not taken today as one of Observers was away with
 Key of Instrument room. Solar Flare seen
 at 10^h.
 " 21st. Solar Flare seen at 14^h.

- April 24^d. Today Beckley Gauge No 4 arrived from Kew.
Mr Miller went to Edinburgh.
- " 26^d. Today Mr. Mossman went up to B.N.O.
- " 27th. Today Mr Mossman left Observatory for Edinburgh.
- " 28th. Today Mr Miller went up to B.N.O. and Mr. R. McDougall came down.
Mr. Herbertson arrived here to carry on experiments on hygrometry.
- " 30. Today the first of the new Petron Ranges Curves was put on Gauge.

- May 2nd. A Rumbling noise as of earthquake was heard at 22^h. 52^m.
- " 5th. Regulating Beckley Clock from 13^h 15^m to 13^h 32^m.
- " 13th. Solar Halo seen at 11th.
- " 16th. Range No 4. returned to Kew today.
- " 21st. Mr. C. Stewart arrived: and Mr Miller came down from B.N.O.
- " 22nd. Today Mr. Herbertson left Observatory.
- " 23rd. Mr. C. Stewart went up the Ben.
- " 24th. Zero lines of Thermograph changed from winter to Summer ones.
Joiners working at end of house let fall a heavy plank on ground outside. and the shock started the seismograph.
Halo seen at ~~9^h~~ 9^h 10th and Noon.
- " 29^d. Today R. McDougall left on holiday.

- June 6th Hails seen at 9th and 10th
 " 2-3rd Prof. Ames of Harvard College. U.S.A. visited the Observatory
 " 25th Clouds to near sea level all day.
 " 26th R. M. Congare went up Ben Nevis today
 " 27th Mr. Omond came down from B.N.O.
 " 30th Temperature very high and weather very fine and warm yesterday and today.
-

- July 2nd At 11 am Thunder looking Cumulus all over sky and at 1 1/4^h clouds down to 800 feet, but no Thunder or lightning was observed -
 July 3rd Today Mr Omond went to Edinburgh.
 July 6th Thunderstorm between 17^h 46^m and 19^h 45^m.
 July 7th Thunder after 15^h
 July 14th Today Mr Omond returned from Edinburgh.
 July 16th Today Bar No 689 was returned to Obsewaty — see March 13th 1894 — and hung up at 17^h
 July 19th The Stevenson Screen thermometer were put in new Screen stands close to old one at 22^h 10^m.
 Today George Day arrived from Edinburgh.
 July 20th Today G. Day went up Ben and S. Weir came down, staying overnight at Low Level Obsewaty.
 July 27 Today Mr A. D. Russell arrived from Edinburgh staying over night and going up Ben Nevis next day -
 July 30 Today the Beckley rain gauge was dismantled at 12^h 50^m ~~pm~~ and the new Beckley - No 4 - put up - The latter was started at 20^h 0^m.
-

August 6th New correction (-0.05) of barometer received.

" August 8th Dr. Buchan arrived.

" 9th Dr. Buchan inspected ^{the} various instruments at this station today. Very heavy rain at night.

August 11th Opening Ceremony of West Highland Railway.

" 14th Heavy rain last night.

" 15th Thunder from 1:10 pm to 7:30 pm

" 22nd Noticed today that Beekley Clock stopped after 10 am yesterday.

" 24th Noticed that there was an air bubble in Gross minimum today. No 753609 put out tonight in its stead.

" 31st Clouds down to about 500 ft above S.L. today.

~~Sept~~
Sept 6th Mr. T. Marr arrived here and ascended Ben Nevis following day.

Sept 8th Mr. Wilson arrived here and ascended the Ben in evening; Mr A. Russell came down same evening; and left for Edin^g on the 10th.

Sept 15th Mr. Omond arrived here

" 17th A. Rankin away to Skye.

" 21st Mr. Marr came down from B.N.O.

22 Mr. Wilson came down from B.N.O. today and left Fort William in evening.

" 24th Mr. Baker Kew Inspector at work here today. Mr. Marr left and A. Rankin back from Skye.

" 25th Mr. Baker finishing inspection and cleaning of Instruments.

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Sept 30th Except for a little drizzle on the 14th and 15th ~~no~~ in all amounting to .014 in rain has fallen since the 11th. The total for the month is only 0.242 in. In consequence there is a drought in this district and the F.W. water supply has ~~at~~ run done.

October 9th The long spell of dry weather ended today. fairly heavy rain falling all evening. A measurable quantity fell on 7th and 8th but no steady rain till today.

" 11th Thomas G. Kay arrived here ~~early~~ and with Mr Omond ascended the Ben on the 12th, when Messrs C Stewart and J Miller came down.

" 12th Mr C Stewart left for Edinburgh

" 13th Mr Miller away to Edinburgh. Fresh cart of Best Paraffin started today. Owing to having inferior paraffin in use the lamps have been giving much trouble during the last few weeks.

" 23rd Very stormy at night. Squally SE wind blowing. A smack of slate lying off the New pier was blown, dragging her anchor, right across the lock where she went ashore. Solar halo seen at noon. Fog in lock in morning.

Owing to the want of water in this district since beginning of September the usual returns to M.O. are ~~three~~ ^{two} months in arrears.

1894

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October 26.

Hoar frost this morning.

" 27

Citto.

Aurora seen at night

" 30

Citto

Citto.

" 31st

Thermograph Zero lines changed from summer to winter today at 10:24 am. Owing to sudden fall of temp. last few days a few hours at bottom of trace were lost.

Heavy rain and High Temp. today.

November 4th

Temperature high for time of year last four days. - down slightly today

"

6th

R. McConagall went up to B.N.O. today and James Miller came down.

"

7th

Very fine lunar ~~the~~ rainbow seen at 9:45 pm. Coloured red outside green inside. A Secondary was faintly indicated

"

8th

Rainbow at 2 pm.

"

12th

In accordance with a request of M.O. for more observations of the Standard Barometer. extra observations were made today and will be continued.

"

14th

Showers of hail and rain during the day. Thunder and lightning at 11:50 pm.

"

19th

Lightning was seen this evening.

"

20th

Lightning at 10 pm.

"

23rd

Fine Aurora with bright streamers seen from 6 to 8 pm.

"

24th

Thick fog and hoar frost in morning. Aurora 7 to 8 pm

1894

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November 26th Hoar frost in morning. Slight fog on loch at 12.45
 " 28th Clouds very low all morning: and air almost saturated

- December 1st New mutations and strands put on wetbulbs 1.20 to 1.50 pm
 " 2nd Hoar frost at night.
 " 3rd Cloudless all day but fog till noon.
 " 4th Hoar frost - sun on grass 10.3.
 " 4th Hoar frost and fog in morning: J. Miller
 went up to B.M.O. today and R. McConagall
 came down.
 " 8th Lunar Halo 9 to 10 pm.
 " 9th Hoar frost in morning: Squally S.E. wind
 at night: barometer pumping
 " 10th Lunar Halo at night (after 10 pm)
 " 11th do do
 " 12th Squally S.W. winds at night
 " 13th Very squally and stormy all day
 " 14th Fresh snow on lower hills
 " 15th Standard Clock back from Edinburgh where
 it had been sent for to be cleaned and
 sorted.
 " 16th Stand^d Clock set up in office.
 " 18th Fresh snow on hills.
 " 21st Very squally at night.
 " 22nd Very quick fall in barometer last night and
 quick rise this morning accompanied by strong
 squally N. winds and showers of hail.
 " 24th Fog to near sea level.

C. Grant away
 for Holidays

1894

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- December 25th / Flag to sea land all forenoon.
 " 28th Very stormy. SWly wind. and heavy rain.
 changing to W^{ly} and hail and snow at night
 " 29th Snow lying to sea level. showers of snow
 / throughout the day.
 " 30th Two inches of snow on ground.
 " During the last few days of the month the wet-
 bulbs were difficult to manage owing to the low
 temperatures.
-

1894 Standard Barometer M.O. No 689 was in use till March 13th and since
 August 8th. In the interval between those dates it was at Kew for being tested
 and overhauled. and Dr. Buchanan's Standard No 690 was used here instead.

There has been no change in the thermometers in use during the
 year.

The Buckley Rain gauge that had been working here since 1890
 continued in use till July 30th. It was then dismantled and
 wholly sent to London: and a ~~new~~ similar instrument, No 4,
 erected in its place. This one has been in use since.

The New Stevenson Screen mentioned in summary at end
 of 1893 above was brought into use on July 19th when the thermometers
 that had been in the Old box were transferred to it.

The Observatory was inspected by Dr. Buchanan on August 8th. and Mr.
 Baker from Kew gave the Instruments the usual yearly clean on
 September 24 and 25.

The Staff has been as formerly viz. R.T. Omond, A. Rankin and J. Miller
 assisted by R. McCongall and C. Grant.

Mr. Herbertson made some further observations on Hygrometry here
 between April 28 and May 22nd.

The Richard instruments here are. One Barograph a Thermograph
 and a Hair Hygograph.

1895.

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January 1st

R. M. O'Connell away for holidays. Clouds very low all evening.

" 2nd

Showers of Snow. C. Grant back on duty.

" 4thTemperature low. T. Kay down from B.N.O. and left for a few days holiday on 5th" 7th

Very stormy last night. Heavy fall of snow which caused much drift. W.H. Railway blocked.

" 8th

Temperature very low today and falling. Min. at 10 pm being 13.8 in Stevenson Box.

" 9th

Temp. still low: Showers of snow in evening a slight shock of Earthquake was noted by several people in this district at 5:50 am but not felt or recorded here at Observatory.

" 16th

Rain gauge clock not wind yesterday, stopped today but no snow fell.

" 25th

Three inches of snow lying on ground today.

" 30thBarograph tube lowered at 16^h 12^m" 31st

" " raised " 10-14

February 4th

No snow in space gauges but 0.070 in Beckley due to snow & ball thrown from road.

" 6th

Snowing heavily in afternoon but nothing in any of the gauges, all blown away again.

" 8thSolar Halo from 18^h onwards." 9thToday Messrs A. Rankin & R. Macdonald all went up Ben Nevis and R.T. Omond and W. Stewart came down. An unsuccessful attempt to ascend had been made on the 6th" 10thSolar Halo - faint, at 21^h & 22^h." 12th

Today T. & Kay arrived in Fort William

February 15th about 20^h 15^m an auroral belt was observed across the sky, quite narrow not over 1° breadth, extends from ENE to WSW and a little South of the Zenith — say 10° South, ~~instead~~ — It had the appearance of being low down not above a few hundred feet, but looked the same on the hill-tops. By 21^h it was gone, but an ordinary Aurora with arch 10° or so above N horizon & streamers was visible all evening —

February 16th Barograph tube screwed down at 10^h 23^m.
Today T. S. Ray went up Ben Nevis and J. Miller came down, the latter staying at Alma Villa —

" 18th Barograph tube screwed up at 10^h 23^m.

" 22nd Today it was found that the ground in centre of kitchen garden was frozen 11 to 12 inches deep. This appears to be one of the least depths observed anywhere in the country —

" 23rd This morning the ground minimum was about 32° for the first time since January 19th.

March 2nd Ground white with snow again this morning
Lunar Corona at ~~10^h 22^m~~ 22^h ^{hours}

March 3rd The water came into the house cistern today for the first time since February 10th.

" 5th Clouds low down, about 1000 feet all afternoon —

" 7th Low fog in morning on Loch, especially about Corpach —

" 13th Fog at Corpach again this morning —

" 14th Clouds at about 500 feet most of the day = drizzling rain, getting heavier at night —

1895

- March 15. Thick fog in morning, at 9^h could not see beyond the New Pier, at 10^h the fog broke overhead, the opposite side of Loch showing both above and below it. Clouds lay at about 500 feet all afternoon.
- " 16^o Clouds low all day -
- " 17^h Sun set at 17^h 54^m. Faint Aurora at 21^h and 22^h.
- " 21^o Fog on Loch at 7^h and 8^h.
- " 22^o Tested Beckley Gauge, it discharged at 0.199 inch.
- " 24^o Strong Earth current at 16^h 5^m.
- " 25^o Today the Barograph Brass & Ivory scales were sent to M.O. to be re-calibrated -
- " 28^o Strong squally NE winds all afternoon.
- April 2^o Today Mr R.T. Ormond left Oban for Edinburgh.
- " 4^o Lunar Halo seen at 21^h and 22^h.
- " 10th At 16^h Double Rainbow seen -
- " 11^o Today Mr R.T. Ormond & Mr R.C. Morrison arrived from Edinburgh. Aurora seen at 21^h and 22^h.
- " 15^o Since the 11^o the Scottish Mountaineering Club have been holding a "Meet" in Fort William and climbing many of the hills near -
- " 16^o New Strands put on wet Bulbs at 15^h 15^m. Aurora at 21^h and 22^h.
- " 23^o Thunder between 16 and 17 hours = heavy rain and hail from 17 to 18 hours -
- " 30^o Solar Halo seen at 14^h hour
-

- May 2⁵ Solar Halo at 21^h and 22^h
 " 3⁵ Solar Halo at Noon.
 " 4⁰ Solar Halo at 9^h and at Noon.
 " 6⁰ changed Thermograph zeros
 " 9⁸ Sun set at 18^h 55^m
 " 9⁸ Thunder heard at 15^h 55^m Screwed up
 Thermograph Frame $\frac{3}{4}$ turn at 10^h 14^m
 " 10⁰ Today Dr W. S. Bruce arrived from Edinburgh
 " 10⁰ Today Dr Bruce went up Ben Nevis and Robt
 Macdonald came down -
 " 11⁰ Thermograph Screen being painted today from
 10^h to 18^h The Richard Thermog. & Hygrom.
 were taken in after 10^h
 " 12⁰ after 22^h the Stevenson Screen max & min
 were shifted to old Stevenson -
 " 13⁰ Thermograph Screen being painted today from
 10^h to 17^h at 15^h 22^m the Stevenson
 Screen Dry & Wet were shifted to Old Stevenson
 to allow of the new one being painted.
 " 15⁰ after 22^h the Max, Min, Dry and Wet were
 replaced in new Stevenson Screen which had
 been painted -
 " 22⁵ New muslins put on Wet Bulbs between 11^h 5^m
 and 11^h 20^m
 " 23⁰ Thunder heard about 13^h
 " 24⁰ Thunder heard several times between 13^h and 16^h
 " 27⁰ Solar Halo seen at 15^h
 " 30⁰ Haze all day.
-

- June 7.^o Today the Barograph Brass vernier scale, sent away on March 25^o was returned from the meteorological office.
- " 11.^o Today Robt. Macchynall went up to Ben Nevis Obey.
- " 14.^o Today A. Rankin came down from Ben Nevis Obey.
- " 17.^o Today R. P. Ormond left L.S.O. for Edinburgh.
- " 18.^o This morning fresh snow lay on the hills down to 2000 feet.
- " 19.^o Thunder heard from 15.^h to 15.^h 30.^m and some lightning seen - at the same time the Ben Nevis Telegraph instrument was badly damaged and all communication stopped - the instruments in Post office F.W. and at Low Level Obey were not affected.
- " 22.^o Barograph tube raised at 10.^h 18.^m to suit new scale.
- " 26.^o Thunder & lightning between 17.^h and 18.^h

- July 1.^o Barograph tube lowered at 10.^h 17.^m as former adjustment did not fit new scale.
- " 2.^o Thunder at intervals between 12.^h 40.^m and 13.^h 40.^m. Thunder & lightning at 14.^h 25.^m and again Thunder between 16.^h and 17.^h
- " 5.^o Today R. P. Ormond returned from Edinburgh.
- " 17.^o Faint Solar Halo at 17.^h
- " 20.^o Today George Ednie arrived and spent the night on his way to Ben Nevis Obey.
- " 25.^o Today G. Ednie returned from Ben Nevis to consult doctor about an inflamed eye; and John Alexander arrived from Edinburgh and

1895.

Spent the night on his way to Ben Nevis -

July 26th Today J. Alexander went up Ben Nevis
and T. G. Ray came down -

" 29th Today G. Edme & T. G. Ray left the Observatory -

" 30th Today A. D. Russell arrived from Edinburgh
and went up Ben Nevis the same evening -

" 31st Today A. Rankin went up Ben Nevis and
Robert Macdonald came down -

August 1st Today Mr Constable from New Observatory
inspected the instruments, cleaned clocks etc -

" 2nd Mr Constable continued and finished
the inspection -

" 6th Thunder & Earth Quakes in cable at 16th -
Very heavy showers at 15th 16th and 17th -

Today A. Rankin came down from Ben Nevis -

" 12th Very heavy rain fell till 14th -

" 13th Today the Observatory was inspected by Dr Buchanan -

" 17th Thermograph examined 10.10 to 10.22 for cause
of stoppage of light - It was supposed to be due to
earring getting on stem of thermometer -

" 18th Today Messrs Borley & Wilson visited the observatory

" 29th Robert Macdonald returned to Observatory from
holidays -

Sept 2nd Haze all day -

- 3rd A. Rankin came down from Ben Nevis -

- 4th Innar Reimlin seen at 21st 45th -

- 5th Today Mr W. Thomson went up Ben Nevis
and Mr A. D. Russell came down -

- September 9th Thunder heard at 16^h 15^m and lightning
seen at 23^h 30^m
- " 10th Mr A Rankin went up Ben Nevis.
- " 11th Stormy all morning.
- " 12th Mr A. D. Russell came down from Ben Nevis.
- " 16th Cord of clock weight of Barograph broke at 9^h 42^m;
repaired after 10^h Mr d. Rankin came down
from Ben Nevis
- " 17th Very heavy rain - Mr J. Neil arrived from
Edinburgh.
- 19th Today J Neil went up Ben Nevis and J.
Alexander came down - Beck's clock regulated.
- 23rd Today A Rankin & R. McDougall went up
Ben Nevis, and W Thomson came down leaving
Fort William in afternoon.
- 24 W. S. Bruce came down from Ben Nevis
and spent night here on his way to Edinburgh
- 25 Temperature very unsteady - jumping 2° or
3° in a few minutes from 25° to 16°
- 27 Calm and Hazy all day - Fog late at night
- 28 Fog over Loch and ~~at~~ all over Fort
William at 22^h and later.
- 30 Today Mr W. S. Bruce returned from
Edinburgh - For the last three nights
there has been a tendency for fog to
gather in the valley after 22^h - the
sky above being almost cloudless the
whole time -
-

October 6. Today W.S. Bruce went up Ben Nevis and A. Rankin came down -

- 12. Today A. Rankin went up Ben Nevis and W.S. Bruce came down -

- 14 Aurora seen at $21^{\frac{1}{2}}$ and $22^{\frac{1}{2}}$

- 16 Hoar frost on ground up to $9^{\frac{1}{2}}$
Aurora seen at $21^{\frac{1}{2}}$ and $22^{\frac{1}{2}}$

- 17 Hoar frost again this morning and at $9^{\frac{1}{2}}$ fog over Corpach. Faint aurora at $22^{\frac{1}{2}}$

- 18. Today the Thermograph was shifted to winter zero lines -

- 20 Aurora seen at $22^{\frac{1}{2}}$

- 23rd Hoar frost and slight haze in mng.

- 24th Today Thermograph zero lines were lowered.

- 27th Hoar frost in morning

- 30th Today Mr. Omond left for Edin^g

November 1st Hoar frost in morning (G.M. reg. 13.3) Leak discovered in Wet Bulb tank, mended and set up again at 4:37 pm.

" 2nd Thick haze on loch all day 4 pm obs. taken 25 minutes late.

" 3rd Hoar frost again this morning. Fog over Corpach. Barograph clock found stopped at 10:16 am. not having been wound (Trace lost)

" 4th Hoar frost in morning and slight haze over loch during the day.

" 5th Squally winds and Showery all day.

October 6. Today W.S. Bruce went up Ben Nevis and A. Rankin came down -

- 12. Today A. Rankin went up Ben Nevis and W.S. Bruce came down -

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- 16 Hoar frost on ground up to 9^h
Aurora seen at 21^h and 22^h

- 17 Hoar frost again this morning and at 9^h fog over Corrach. Faint aurora at 22^h

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- 24th Today Thermograph zero lines were lowered.

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November 1st Hoar frost in morning (S.M. reg. 13.3) Leach discovered in Wet Bulb tank, mended and set up again at 4:37 pm

" 2nd Thick haze on loch all day 4 pm obs. taken 25 minutes late.

" 3rd Hoar frost again this morning. Fog over Corrach. Barograph clock found stopped at 10:16 am. not having been wound (Tree lost)

" 4th Hoar frost in morning and slight haze over loch during the day.

" 5th Squally winds and showery all day.

- November 6th Rainbow seen at two p.m.
 " 9th Aurora seen at 10:10 p.m.
 " 10th 9 a.m. observation missed
 " 11th Beckley Rain gauge stopped during the night, owing to unhitching of pendulum.
 " 15th Dry Bulb lamp found smoking this morning 5 Hours of curve lost.
 " 20th Today Mr W. L. Bruce went up to B.M.O. and Mr. Randin came down.
 " 23rd Aurora at 9 and 10 p.m.
 " 24th Hoar frost in morning.
 " 25th Hoar frost in mng. and fog and haze on lock in evening
 " 26th Hoar frost, and fog round about Corpach in morning.
 " 30th Hazy all morning

December

- " 1st Fresh snow on hills this morning down to 700 ft. off sea level.
 " 5th Rain, hail and snow fell during the day and lightning was seen at 8 p.m.
 " 6th Two inches of snow lay on the ground this morning. Thunder and Lightning at 9:30 a.m.
 " 9th Rainbow seen at 2 p.m.

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Remainder of volume is blank