

ICECAPS Weekly Report

April 23 – 29, 2018

Rex Nelson



Admiring a nice sundog on 04-28.

General:

- The MSF time server GPS antenna is being borrowed by the Radiosonde base station.

Significant Weather Observations:

- 04-23: Sct altostratus. -32C, 6kts. Freezing fog in the morning.
- 04-24: Few altostratus. -33C, 5kts. Freezing fog in the morning.
- 04-25: Br. -35C, 4kts.
- 04-26: Few stratus. -36C, 12kts. Intermittent 22deg halo, parhelia, upper & lower tangent arc throughout the day.
- 04-27: Br. -38C, 8kts.
- 04-28: Low vis in Blsn. -23C, 25kts. 18:30Z & 20:30Z: 22 & 46deg halos, parhelia, upper tangent arc, circumzenithal arc, partial parhelic circle.
- 04-29: Sct altocumulus. Br. -34C, 19kts.

ICECAPS Data Management:

- 04-23: Data transfer complete 05:32Z
- 04-24: Dataman found unresponsive at 12:42Z. Rebooted at 15:40Z. Data transfer complete

21:32Z

- 04-25: Data transfer complete 06:58Z
- 04-26: Data transfer complete 06:59Z
- 04-27: Data transfer complete 11:16Z
- 04-28: Data transfer complete 06:19Z
- 04-29: Data transfer complete 05:52Z

MWR:

- As of 10-28, 150-90 operating in V11_SCAN_HF.MBF.

SODAR:

- Operating normally.

POSS:

- Operating normally in old software.

MMCR:

- Operating normally.
- 04-26: NetCDF errors present. Initiated system reboot at 12:18Z. Additional reboots at 12:31Z, 12:46Z, 13:03Z, 13:19Z. System collecting data again at 13:32Z.
- 04-27: NetCDF errors present.

CAPABL:

- Operating normally.
- 04-24: Cleaned snow from window at 12:48Z

MPL:

- Operating normally.
- 04-24: Cleaned snow from window at 12:49Z

VCEIL:

- The ceilometer was removed from the roof on 2018-03-28 due to laser failure. Parts arrived this week.
- 04-27: Replaced heater and laser assemblies. Ceilometer returned to normal operation at 18:30Z.

Hotplate:

- Offline since 2018-01-11 due to Error 1073807339 (timeout expired before operation completed).

IceCAM:

- Operating normally.

PAERI:

- Operating normally.
- 04-23: 13:37-13:55Z. Removed fan to defrost.
- 04-25: 11:53-12:21Z. Removed fan to defrost.

- 04-28: Red LW & SW Responsivity flags. Did not clean due to foul weather.
- 04-29: LW & SW Responsivity flags cleared overnight.

TSI:

- In the MSF for winter storage.

IcePIC:

- No images collected this week

Radiosonde:

- Twice daily soundings.
- Radiosonde GPS antenna is temporarily located on SE Green House roof railing.
- 04-28: Due to the NOAA met being down, the evening sonde's surface ob for RH was obtained from the sonde itself.

MASC:

- The MASC has been packaged for shipment to Vanderbilt for repairs.