

ICECAPS Weekly Report

March 19 – 25, 2018

Rex Nelson



Sundog over the MSF on 03-20

General:

- 03-24: Some snow penetration under the emergency door.

Significant Weather Observations:

- 03-19: Ovc cumulus. -21C, 16kts. Drsn. Fzfg.
- 03-20: Ovc cumulus. -20C, 21kts. Blsn. ~13:15 to ~14:30Z: 22deg halo, 46deg halo, parhelia, full parhelic circle, circumzenithal arc.
- 03-21: Ovc altocumulus, clearing to Few by evening. -27C, 7kts.
- 03-22: Ovc cumulus. -27C, 10kts.
- 03-23: Bkn stratus. -33C, 20kts. Drsn. Fzfg. ~07:30 to 14:30Z: Faint 22deg halo.
- 03-24: Ovc altostratus. -30C, 30kts. Blsn.
- 03-25: Ovc stratus. -31C, 24kts. Blsn.

ICECAPS Data Management:

- 03-19: Data transfer complete 12:20Z
- 03-20: Data transfer complete 12:45Z
- 03-21: Data transfer complete 12:45Z
- 03-22: Data transfer complete 11:54Z
- 03-23: Data transfer complete 12:36Z

- 03-24: Data transfer complete 13:31Z
- 03-25: Data transfer complete 13:40Z

MWR:

- As of 10-28, 150-90 operating in V11_SCAN_HF.MBF.
- 03-25: The 150-90 was found disconnected. The radiometer was power cycled, successfully re-establishing connection at 12:47Z.

SODAR:

- Operating normally.
- 03-20: 17:32-17:38Z. SODAR off while cleaning snow from dishes.
- 03-24 and 03-25: Data looks like the SODAR dishes are snow-packed. Did not clean due to foul weather.

POSS:

- Operating normally in old software.
- 03-19: 17:10Z. Cleared frost.
- 03-20: Several “Gunn current low” errors present.

MMCR:

- Operating normally.
- 03-25: 13:09-13:14Z. Desiccant replaced.

CAPABL:

- Operating normally.
- 03-20: 17:55Z. Cleaned window after sweeping roof.

MPL:

- Operating normally.

VCEIL:

- 03-19 through 03-25: Errors in status message: “Laser failure (A) Laser power low (W)”
Clouds not appearing in data.
- 03-22: 13:17Z. Power cycled instrument and computer.

Hotplate:

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

IceCAM:

- Operating normally.

PAERI:

- Operating normally.
- 03-21: 13:12-13:54Z. Fan enclosure brought inside to thaw.
- 03-24 and 03-25: Flags: LW & SW Responsivity, LW & SW HBB NEN. Did not clean mirror due to foul weather.

TSI:

- In the MSF for winter storage.

IcePIC:

- 03-19: Slides placed for collection 1745-1750Z. Particles photographed include simple prisms, triangular crystals, split plates, rimed, and irregulars.
- 03-21: Slides placed for collection 1400-1420Z. Particles photographed include isolated bullets, bullet rosettes, simple prisms, hollow columns, capped columns, and irregulars.

Radiosonde:

- Twice daily soundings.
- 03-18: Morning sounding unexpectedly closed by software. Data was incomplete.
- 03-19: Evening sounding data did not transfer.
- Radiosonde GPS antenna is temporarily located on SE Green House roof railing.

MASC:

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