

ICECAPS Weekly Report

March 5 – 11, 2018

Rex Nelson



A hazy sundog behind the MSF on 03-11.

General:

- The MSF was leveled on 03-05.
- Clear and calm conditions through much of the week allowed simpler operations than past weeks.

Significant Weather Observations:

- 03-05: Few stratus. -45C, 7kts.
- 03-06: Skc. -53C, 14kts.
- 03-07: Sct altostratus. -53C, 12kts.
- 03-08: Ovc altostratus. -48C, 13kts. Br.
- 03-09: Visibility zero. -35C, 32kts. Blsn.
- 03-10: Ovc altostratus. -36C, 20kts. Drsn. Faint sundog.
- 03-11: Ovc stratus. -36C, 11kts. Br. Sky visible through thin cloud layer. Faint sundog.

ICECAPS Data Management:

- 03-05: Data transfer complete 09:45Z
- 03-06: Data transfer complete 12:04Z
- 03-07: Data transfer complete 12:14Z

- 03-08: Data transfer complete 11:57Z
- 03-09: Data transfer complete 11:39Z
- 03-10: Data transfer complete 12:21Z
- 03-11: Data transfer complete 12:20Z

MWR:

- As of 10-28, 150-90 operating in V11_SCAN_HF.MBF.
- 03-10: The 150-90 was found disconnected. The radiometer was power cycled, successfully re-establishing connection at 12:52Z.

SODAR:

- Operating normally.

POSS:

- Operating normally in old software.
- 03-05: Cleaned off frost at 14:20Z

MMCR:

- Operating normally.
- 03-05: Error 7 found and cleared at 14:13Z.
- 03-11: Error 7 found and cleared at 14:10Z.

CAPABL:

- Operating normally.
- 13-11: Cleaned window at 14:35Z after sweeping the roof.

MPL:

- Operating normally.

VCEIL:

- 03-05: Indoors for thaw/troubleshooting.
- 03-06: Reinstalled at 18:00Z. Blower and heater are functioning. Data collection resumed.
- 03-09: Errors in status message: "Laser Failure (A) Receiver optical cross-talk compensation poor (W)". Data looks blocky in spots, possibly intermittent laser function.
- 03-10: Errors in status message: "Window Contaminated (W) Receiver optical cross-talk compensation poor (W)".
- 03-11: Errors in status message: "Laser failure (A) Window contaminated (W)". Data looks blocky in spots.

Hotplate:

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

IceCAM:

- 03-05: Camera inoperable.
- 03-06: Backup camera installed and operational.

PAERI:

- Operating normally.
- 03-06: Several temperature alarms present. Removed fan enclosure at 1815Z and brought inside to thaw. Replaced at 1920Z.
- 03-06: Several temperature alarms present. Max Sample StdDev flag.

TSI:

- In the MSF for winter storage.

IcePIC:

- 03-10: Slides placed for collection 1450-1455Z. Particles photographed include simple prisms, needles, and irregulars.

Radiosonde:

- Twice daily soundings.
- Radiosonde GPS antenna is temporarily located on SE Green House roof railing.

MASC:

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