

ICECAPS Weekly Report

February 22, 2016 – February 28, 2016

Sam Dorsi



Bamboo poles are heavy with frost along the MSF-Green House flagline. SWD.

General:

- 2/24: With favorable winds away from PAERI and CAPABL, and MPL in afterpulse calibration mode, tech was able to remove thick rime accumulations from south railings and deck edges between 13:16 and 13:33z.

Significant Weather Observations:

- 2/22: Overcast stratus and drifting snow, 11 kts, -31C
- 2/23: Overcast stratus and freezing fog, 11 kts, -26C
- 2/24: Few stratus and broken altostratus, 8 kts, -32C
- 2/25: Few altostratus, 20 kts, -30C
- 2/26: Few altostratus, 20 kts, -33C
- 2/27: Overcast and freezing fog, 8 kts, -33C
- 2/28: Broken stratus and freezing fog, 12 kts, -33C

Dataman Account:

- Operating normally.
- 2/21: Larger quantity of data transferred: backlog reduced to 260 MB at 14:00z.
- 2/23: Backlog 250 MB at 13:00z.
- 2/24: Backlog 240 MB at 13:00z.
- 2/25: Backlog 140 MB at 13:30z.
- 2/26: Backlog 160 MB at 12:30z.
- 2/26: The ArchiveBoulder log file shows 'lost connection' errors, possibly due to seasonal solar interference.
- 2/27: Backlog 1.0 GB at 13:15z.
- 2/28: Backlog 1.0 GB at 13:15z.

MWR:

- HATPRO removed for repairs.

SODAR:

- Operating normally.

POSS:

- Operating normally.

MMCR:

- Operating normally.
- Measurements of roll, pitch and outdoor temperature appear erroneous.

CAPABL:

- Operating normally.

MPL:

- Operating normally.
- 2/24: Afterpulse calibration performed from 13:03z to 13:36z.

VCEIL:

- Operating normally.

Hotplate:

- Operating normally.

IceCAM:

- Operating normally.

PAERI:

- Operating normally.

TSI:

- Stored in MSF and awaiting warmer temperatures for redeployment.

IcePIC:

- 2/25: Slides were placed at 13:35z on wooden bench 6 m NW of MSF, during strong drifting snow conditions (20 kts, but level of wind-carried snow low). Removed 14:22z. No accumulation occurred on slide at upwind side of T-barrier; on downwind side of T-barrier, several metamorphosed ice pellets were collected and photographed.

Radiosonde:

- Twice daily sondes.
- 2/14 – 2/28: Due to the failure of the NOAA air temperature sensor (TAWO tower, 2 m) normally used for sonde surface conditions, the air temperature from the Green House tower was recorded instead. The NOAA temperature sensor was restored to service on 2/28.

MASC:

- Operating normally.