

ICECAPS Weekly Report

March 14, 2016 – March 20, 2016

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Typical mid-week view of the Green House. SWD.

General:

- 3/17: Identified unlabeled UPS-connected power strip behind MSF tech desktop. Labeled strip as UPS-only. Moved non-UPS-dependent items (computer speakers, battery chargers) to alternate non-UPS power strip (14:10z). This will extend UPS runtime and reduce risk of users tripping UPS breakers.
- 3/18: Updated ICECAPS passwords document.

Significant Weather Observations:

- 3/14: Overcast stratus, blowing snow, 17 kts, -27C
- 3/15: Few stratus, 10 kts, -49C
- 3/16: Overcast stratus, blowing snow, 20kts, -28C
- 3/17: Overcast stratus, blowing snow, 25kts, -18C
- 3/18: Broken altostratus, drifting snow, 16 kts, -18C
- 3/19: Broken stratocumulus, 10 kts, -18C
- 3/20: Overcast stratus, 12 kts, -25C

Dataman Account:

- Operating normally.
- 3/14: Transfer complete at 20:38z.

- 3/15: Transfer complete at 19:17z.
- 3/16: Transfer complete at 18:54z.
- 3/17: Transfer complete at 18:33z.
- 3/18: Transfer complete at 16:46z.
- 3/19: Transfer complete at 20:35z.
- 3/20: Transfer complete at 16:21z.

MWR:

- HATPRO removed for repairs.

SODAR:

- Operating normally.

POSS:

- Operating normally.

MMCR:

- Operating normally.
- Measurements of roll, pitch and outdoor temperature appear erroneous.
- 3/15: Errors associated with the calibration table (e.g., ‘Could not read calibration table NetCDF file’) appeared in the 04:00z log file. The MMCR is otherwise functional.
- 3/16: The calibration table errors reappeared. On the suggestion of Duane Hazen, the MMCR was rebooted to synchronize the actions of the MMCR-DM and MMCR-radar computers. This was successful in eliminating the calibration table errors.

CAPABL:

- Operating normally.

MPL:

- Operating normally.

VCEIL:

- Operating normally.

Hotplate:

- Operating normally.

IceCAM:

- Operating normally.

PAERI:

- Operating normally.
- 3/16: Cleaned scene mirror at 12:29z in response to red SW and LW Responsivity flags. The AERI Windows interface closed unexpectedly at ~12:35z, while I clicked the ‘<<’ and ‘>>’ navigation buttons to view the records from previous minutes. The PAERI mirror continued to accumulate snow, and was cleaned again at 15:23z.
- 3/17: Cleaned scene mirror at 12:30z, 13:19z, and 14:41z in response to red SW and LW

Responsivity flags. These repeat errors were ultimately resolved by a shift in weather.

TSI:

- Stored in MSF and awaiting warmer temperatures for redeployment.

IcePIC:

- 3/18: Slides were placed for collection 5 m NW of MSF from 14:19 to 15:11z. Airborne particles appeared to be present, but were not captured on slides, likely due to 17 kt winds. Particles were instead collected in spindrift 2 meters to the NE of MSF. The collection of these building-influenced particles was successful, and images were made of sectorized plates, hexagonal plates and triangular forms.

Radiosonde:

- Twice daily soundings.

MASC:

- Operating normally.