

# ICECAPS Weekly Report

July 20 – July 26, 2015

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The tower inspectors' view of camp from the top of the Swiss Tower –NH

## General:

- MSF vestibule fan motor replaced on 7/20/15.
- ASIA-A dedicated outlet installed on 7/23/15.
- UPS battery swap occurred on 7/23/15 at 17:30z. While the swap was ultimately successful, it revealed an issue with the UPS itself that did not allow the UPS power to be bypassed. This caused several issues with PAERI, SODAR and MWR. See below for details.

## Significant Weather Observations:

- 7/20: broken stratocumulus, 13kts, -9.4C
- 7/21: scattered altocumulus, freezing fog AM, 3kts, -14.2C
- 7/22: scattered cirrus, 3kts, -12.3C
- 7/23: broken stratus, 4kts, -12.9C
- 7/24: broken stratus, 0kts, -11.7C
- 7/25: broken altostratus, 4kts, -13.3C
- 7/26: broken altostratus, 7kts, -15.1C

**Dataman Account:**

- Operating normally.
- 7/21: 12:36z and 7/24 11:32z Daily checks, 400+ items remain in ToBoulder folder. Manual transfer was performed.

**MWR:**

- HATPRO: operating normally.
- 150-90: operating normally.
- 7/23: During UPS battery swap at 17:30z, MWR was operating on diminishing UPS power and was shut off from 17:42z to 20:47z. Dave Turner was notified and the HATPRO field notes document was updated.

**SODAR:**

- Operating normally.
- 7/23: During UPS battery swap, SODAR was operating on diminishing UPS power and was shut off from 17:36z to 20:33z. Matt Shupe was notified and the SODAR site log was updated.

**POSS:**

- Operating normally.

**MMCR:**

- 7/20-7/26: The Outdoor Temperature gauge is reading at ~105C and the +5V low readings were present. Pitch is reading at 11.21. Duane Hazen and Matt Shupe have been notified.
- 7/24: 15:02z MMCR was shut down. Snow was cleaned off of antenna. With instructions from Duane Hazen, at 15:14z the MMCR-Radar panel was removed and wiring was installed or modified. Results were that J1-23, J1-12, J1-6, J1-3, J3-6, J3-6, and J3-17 were jumpered together. At 15:29z, MMCR was restarted. +5V #1 and #2 are red at +4.5V. Outdoor temperature reads between +4C to +80C. Pitch is reading 11.34. Duane Hazen and Matt Shupe were notified.
- 7/26: 12:23z MMCR was shut down. Snow was cleaned off of antenna. With instructions from Duane Hazen, at 12:34z the MMCR-Radar panel was removed and the wire to A/D 27 was removed for troubleshooting. The previously mentioned errors were present. Wire was reinstalled and MMCR was restarted. Outdoor temperature and pitch errors were still present. Matt and Duane were notified.

**CAPABL:**

- Operating normally.

**MPL:**

- Operating normally.

**VCEIL:**

- Operating normally.

**Hotplate:**

- Operating normally.

**IceCAM:**

- Operating normally.

**PAERI:**

- Operating normally.
- 7/23: 18:41z During UPS battery swap, PAERI stopped collecting data due to a possible power surge. Power was still running to the Stirling Cooler and the interferometer. With Von Walden online, a reboot was unsuccessful. From DOS and using the floppy disk program align96.exe, the DSP card was restarted. PAERI was rebooted successfully at 20:23z.

**ASIA-A:**

- Offsite for repair since 4/30.

**TSI:**

- Operating normally.

**IcePIC:**

- No photos taken.

**Radiosonde:**

- Twice daily sondes.

**Doppler Wind Lidar:**

- Offsite on 6/29/15.

**MASC:**

- Operating normally.