

## ICECAPS Weekly Report

Oct. 17 – Oct. 23, 2012

Patrick Wright – Phase I Tech



Sunrise on Oct. 16<sup>th</sup>.

### Interesting weather events:

- 10/19, moderate diamond dust and optics throughout day.
- 10/21 thru 10/23, clear skies, between -46C/-51F and -50C/-58F.
- 10/23 AM launch, 23 degree C (41 degree F) surface inversion.

### General Items

- Greenland DST ends on Saturday, Oct. 27 at 11pm. US Daylight Savings time doesn't end till the following weekend. From Saturday 10/27 thru Sunday 11/4, Greenland will be 3 hours ahead of Mountain Time. Suggestion: keep Skype call next week at same time for U.S., and it will be an hour earlier than the normal time for me.
- Daily/Long-Term/Troubleshooting check list updated and uploaded to WIKI. Version Nov\_2012.
- Checked time sync on all computers. Duane re-synched MMCR-Radar (was ~2 min. behind). Will be watching over next few days. MPL is ahead by 23 seconds.
- 10/22, shoveled roof.
- Continued turnover w/Lance.

**Dataman Account:**

- Normal

**PAERI:**

- No screen on shelter chimney seems better. Less rime overall.
- 10/18, partial blue flags.
- 10/21, Yellow Flags changing to Red Flags for LW/SW Responsivity at 1500 UTC. Snow observed on scene mirror, likely from rime falling off railing cables. Red Flag for ABB Temp.
- 10/22, 0010 UTC, snow brushed off mirror. Responsivities changed to Green. Continued Red Flag for ABB Temp.
- 10/22, attempted to close hatch to shovel roof in north winds. Hatch would not close, reporting "Close Obstruction" error, although there are no visible obstructions on roof. Resulted in period of Red Flag responsivities and spectra noise while mirror was safed due to hatch controller error. Eventually cleared error, and set hatch to open position. New hatch open position is 79.7%. No data for ~1230-1330 UTC.
- 10/22, partial blue flags.
- 10/23, partial blue flags.

**MPL:**

- Normal. (no word from Richard Coulter, however, no AMCS errors this week.....)

**CAPABL:**

- Normal.

**MMCR:**

- Normal. (time sync issue)

**MWR:**

- Small T/RH aspiration fans on both radiometers occasionally restarted with brush.
- 10/20, ~1350 UTC, red flags for Rec.1 Temp. Stability on HATPRO, and for Rec. 2 Temp. Stability on the 90/150. Alarms remain green. Very short intermittent red flags for Ambient Target Stability. All flags back to green by 1425 UTC.

**ASIA-A:**

- 10/20, disassembled Arduino box on roof at Pierre's request. All power indicators seem OK.
- 10/23, Break in communication with radiometer at 0500 UTC. Notified Pierre. Rebooted radiometer and software. Measurements resumed at 2151 UTC.

**SODAR:**

- 10/22, 1557 UTC, cleaned snow from tx and rx.

**POSS:**

- Normal.

**VCEIL:**

- Normal.

**IceCAM:**

- Normal.

**IcePIC:**

- No photos this week.

**Radiosonde:**

- 10/19, Late closeout, dual launch w/O<sub>3</sub> sonde.
- All remaining radiosonde boxes in MSF moved to Greenhouse/Shop. •