

ICECAPS Weekly Report

May 11 – 17, 2015

Sam Dorsi



A Parry arc and parhelic circle appear in the sky above the Green House. --SWD

General:

- 5/12: MSF building power circuits for HATPRO and 150/90 radiometers upgraded.
- 5/16: MSF exterior power pole for hotplate, POSS and MASC upgraded.

Significant Weather Observations:

- 5/11: Scattered stratus, 9 kts, -26C
- 5/12: Few stratus, 5 kts, -26C
- 5/13: Scattered stratus, 11 kts, -23C
- 5/14: Overcast stratus, 14 kts, -21C
- 5/15: Broken stratus, 6 kts, -27C
- 5/16: Few altostratus, 16 kts, -19C
- 5/17: Few altostratus, 8 kts, -21C

Dataman Account:

- Operating normally.

MWR:

- HATPRO: operating normally.
- 150-90: operating normally.
- 5/12: In order to upgrade building power circuits, heater transformer power was disconnected from 11:58z to 12:03z. Radiometers remained powered during this upgrade.

SODAR:

- Operating normally.

POSS:

- Operating normally
- 5/16: Powered down at 12:24z for MSF exterior power pole upgrade. On restoration of power, POSACQ software reports 'no good POSS packets'.
- 5/17: Diagnosis continues on POSS error.

MMCR:

- Operating normally.

CAPABL:

- CAPABL operating in test configuration.

MPL:

- Operating normally.

VCEIL:

- Operating normally.
- 5/16: Ceilometer offline after computer reboot, from 14:09z until 16:59z.
- 5/17: Shared ceilometer computer rebooted at 12:27z during hotplate communications diagnosis.

Hotplate:

- Operating normally.
- 5/16: Discovered a hotplate communications error that occurred at 19:26z on 5/15.
- 5/16: Hotplate continued to be down during MSF power pole upgrade. Data collection resumed at 14:12z.
- 5/17: A hotplate communications error occurred at 5:22z. Shared computer (ceilometer) rebooted at 12:27z, but still unable to communicate over COM2 through Hotplate Viewer or TeraTerm. Error resolved after Ethernet connectors in exterior box reseated and power cycled on hotplate instrument.

IceCAM:

- Operating normally.
- 5/12: IceCAM not operational from 11:58z to 12:50z during MSF electrical upgrades.

PAERI:

- Operating normally.

ASIA-A:

- Offsite for repair since 4/30.

TSI:

- Offline and stored in MSF for winter.

IcePIC:

- 5/14: Crystal images collected during 2 periods, one with only cirrus overhead (needles and simple prisms), and one with cirrus and low stratus layer overhead (bullet rosettes and capped columns).

Radiosonde:

- Twice daily sondes.
- 5/14: Missed 12z sounding closeout window.
- 5/17: During 12z sounding, data collection appeared to stop mid-ascent at 54 mb. Windows reported error "Data SVR has stopped responding." Radiosonde computer operating extremely slowly, with each basic operation taking ~ 5 minutes. Data was archived from flight, then radiosonde computer rebooted.

Doppler Wind Lidar:

- Operating normally.
- Data transfer continues to be curtailed since 5/9.

MASC:

- Operating normally.
- Data transfer continues to be curtailed since 5/10.
- 5/16: Powered off from 12:30z to 14:15z as exterior power pole was upgraded.
- 5/16: Due to internet connectivity issues, the MSF MASC computer was rebooted 16:40z by PI request.