

ICECAPS Weekly Report

April 13 - 19, 2015

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Halos at 22 and 46 degrees appear during a break in the wind on 4/16. --SWD

General:

- 4/15: Strong winds and low visibility curtailed station operations. Travel on station was limited to Green House and Big House.
- 4/19: Again due to strong winds, travel was limited to Green House and Big House.

Significant Weather Observations:

- 4/13: Blowing snow, heavy rime, 14 kts -38C
- 4/14: Blowing snow, 18 kts, -33C
- 4/15: Blowing snow, 31 kts, -17C
- 4/16: Blowing snow, 25 kts, -24C
- 4/17: Blowing snow, 22 kts, -22C
- 4/18: Broken altostratus, 12 kts, -31C
- 4/19: Blowing snow, 35 kts, -14C

Dataman Account:

- Operating normally.

MWR:

- HATPRO: operating normally.
- 150-90: operating normally.

SODAR:

- Operating normally.

POSS:

- Operating normally.
- 4/15: POSS data acquisition reporting no data received (13:11z).
- 4/16 Circuit breaker to POSS/hotplate power pole found tripped. External outlet cleaned and power restored at 12:04z. Data acquisition resumed at 12:06z.
- 4/16: POSS acquisition reports “max noise limit” errors, starting at time of reboot and continuing for 7 minutes.
- 4/16: POSS data collection interrupted by an unknown error, simultaneous to error at hotplate, which shares the external power pole. Breaker is not tripped. POSS acquisition software closed and restarted 17:08z.

MMCR:

- Operating normally.

CAPABL:

- Offsite as of 8/19.
- Continuing to monitor water storage system during winter.

MPL:

- Operating normally during low wind periods, but encountering frequent errors during wind
- MPL afterpulse calibration delayed due to instrument instability.
- 4/15: High winds caused repeated AMCS card errors. Errors were triggered at 09:37, 11:59, 12:07, and 12:11z. Instrument left in standby mode to wait for weather to improve.
- 4/16: Continued high winds causing AMCS card errors. Errors were triggered at 12:02, 12:10, 12:15, 12:48, 12:52, 13:03, and 18:33z.
- 4/17: As winds had lessened somewhat (20 kts), tried rebooting MPL at 12:25z. Encountered AMCS card error in less than one minute, and left in standby.
- 4/18: Amid lower morning winds (13 kts), the MPL, which has been on standby, was rebooted at 12:14z, with data collection resuming at 12:16z.

VCEIL:

- Operating normally.

Hotplate:

- Operating normally.
- 4/15: Hotplate acquisition found with ‘undecipherable string’ error at 11:11z. Data collection resumed 11:57z.
- 4/15: Hotplate acquisition reports ‘timeout expired before operation complete’ error and ceases data collection (likely ~13:11z, when POSS acquisition lost signal as well).

- 4/16: Circuit breaker to POSS/hotplate power pole found tripped. External outlet cleaned and restored (breaker reset) at 12:04z. Data collection resumed at 12:14z.
- 4/16: Hotplate acquisition reports 'timeout expired before operation complete' error and ceases data collection (16:11z). POSS has simultaneous issue, but breaker is not tripped. Data collection resumed 17:06z.
- 4/19: Hotplate acquisition reports 'timeout expired before operation complete' error and ceases data collection (04:53z). Data collection resumed 14:00z.

IceCAM:

- Operating normally.

PAERI:

- Operating normally.

ASIA-A:

- Offline until summer due to broken radio component.

TSI:

- Offline and stored in MSF for winter.

IcePIC:

- No photos taken

Radiosonde:

- Twice daily sondes.
- 4/16: Sounding at 00z was not attempted due to weather conditions, by request of station manager.
- 4/18: Sounding at 12z contacted surface after release.