

ICECAPS Weekly Report

March 10 – March 16, 2014

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Sunset on a bluebird day: 3/14 @ 20:22UTC

General:

- MSF facility operating normally.
- Status of old Flux Facility computer TBD.

Significant Weather Observations:

- 3/10: Winds 13kn at 141°, -37C, 72%RH, OVC
- 3/11: Winds 20kn at 120°, -34C, 75%RH, BKN-DRSN
- 3/12: Winds 12kn at 136°, -40C, 69%RH, BKN
- 3/13: Winds 8kn at 310°, -51C, 62%RH, FEW
- 3/14: Winds 8kn at 166°, -53C, 60%RH, SKC
- 3/15: Winds 15kn at 196°, -36C, 73%RH, BKN-DRSN
- 3/16: Winds 17kn at 304°, -48C, 62%RH, VV500-BLSN

Dataman Account:

- Operating normally.

MWR:

- Operating normally.

- 3/11 @ 1320Z: Computer time = UTC – 3sec, Radiometer time = UTC

SODAR:

- Operating normally.
- 3/16 @ 1640-1700Z: SODAR dishes cleared of snow.

POSS:

- Operating normally.

MMCR:

- Operating normally.
- 3/14 @ 0100-1300Z: During a daily UPS test an under voltage reading led to a transmitter power failure and TWTA helix current fault. Restarted normally.
- 3/15: "Outside Temp" readings were out of bounds for the majority of the night. Unrelated to this there was no Cal Table from yesterday because the MMCR was down at 1300Z.

CAPABL:

- No longer operating.

MPL:

- Operating normally.
- 3/11 @ 1305-1325Z: Afterpulse calibration.
- 3/16 @ 1830 – 3/17 @ 0135Z: AMCS card error.

VCEIL:

- Operating normally.

IceCAM:

- Operating normally.
- 3/14 @ 1015Z: Another corrupted image file. 0 byte .jpg file where MIME type is “text/plain” – maybe this is the default MIME for an empty file of all extensions?

PAERI:

- Operating normally.
- 3/12: spare fans tested and fan log created.
- 3/13 @ 1300-2330Z: found PAERI mount down, computer unresponsive. Computer rebooted and daily files renamed. PAERI software began normal data collection.
- 3/15-3/16: The PAERI had a slew of yellow indicators overnight: ABB and HBB Max Temp Diff, Mirror Motor Temp, Detector Temp, Max Sample STD, Air Temp Near Interfer, and Atmos Pressure. Encoder Scene Confirm stayed green and the spectra all look reasonable.
- 3/16: Microsoft XP security certificates were updated, and Logmein was updated. It now works, except the graphs do not display properly.
- Ongoing: HBB Max Temp Diff consistently yellow (significantly higher than nominal).

ASIA-A:

- Operating normally.
- 3/11 @ 1320Z: Computer time = UTC – 6sec, Radiometer time = UTC

- 3/12: 48 hour stability test initiated by Pierre.

TSI:

- Offline for winter

IcePIC:

- 3/10 @ 1300-1445Z: Bullets/needles averaging 500Lx80W microns, bullet rosettes, few hollow columns 1200microns long, few 100Lx10W micron needles, few sector plates 100 microns in diameter.
- 3/12 @ 1305-1605Z: 200-300 micron bullets and needles. Needle rosettes and dense bullet rosettes.

Radiosonde:

- 3/10: Replaced high pressure gauge on the He regulator. The old gauge had been sticky and ceased reading correctly.
- 3/11 @ 24Z: Reconditioned a previously aborted sonde with some improvement in performance, but still unacceptable. Reconditioned it immediately with similar results.
- 3/13 @ 12Z: Tandem launch with NOAA ozonesonde.
- 3/14 @ 12Z: Radiosonde closed out late.
- Ongoing: dual RH sensor issues – aspirate the sensors during the ground truthing?
- Twice daily sondes.