

ICECAPS Weekly Report

July 23 – July 29, 2018

Hannah James



Midnight sun with Jeff, our bear watch, skiing around camp. -HJ

General:

Monday evening, July 23, the MSF was powered by the 70kW generator from 19:10-23:50Z so electrical work could be completed in the Distribution shack. The MSF ran on UPS for a few minutes before and after the generator swap, from 19:15-19:17Z to go on the 70kW generator and 23:46-23:48Z to go back onto main station power. On Wednesday, July 25, Summit attempted to move all power onto the MicroTurbine generator, but it was unsuccessful in holding the station load. The MSF was on UPS from 21:19-21:20Z, and again from 21:23-21:24Z during these swaps. On Saturday, July 28, station swapped onto the MicroTurbine generator. The MSF was on UPS power during this transfer from 12:14-12:28Z. Early Sunday morning, the MicroTurbine generator failed. Summit experienced a power outage from 02:22-02:40. All instrumentation that was on UPS saw no outage times, and daily checks passed after station was put back on the main SMG generators.

Significant Weather Observations:

- 07-23: Bkn cumulus, bkn cirrocumulus. Vcfzfg, IC. -11C, 10 kts.
- 07-24: Sct cirrus. 11:00-12:00Z- 22 degree halo, parhelia, upper tangent arc, and start of parhelic circle. -11C, 2kts.
- 07-25: Bkn altocumulus. -14C, 3 kts.
- 07-26: Few stratus, bkn cirrostratus. -20C, 15kts.
- 07-27: Bkn altocumulus. -9C, 20kts. Blsn, -sn.
- 07-28: Bkn stratocumulus, bkn cirrus. -9C, 20 kts. Blsn.
- 07-29: Bkn stratocumulus. -7C, 20 kts. Blsn.

ICECAPS Data Management:

- 07-23: Data transfer complete 15:21Z.
- 07-24: Data transfer complete 14:22Z.
- 07-25: Data transfer did not complete due to internet outage with SRI's remote work. Manual transfer started again at 21:27Z, complete following day at 02:28Z.
- 07-26: Data did not transfer due to incorrect IP address on Boulder end of ICECAPS link. Manual transfer started at 17:25Z, complete following day.
- 07-27: Data transfer from past two days complete at 13:38. Upload speeds were resolved by SRI and Speedcast. MMCR mount down, Matt Shupe started remotely.
- 07-28: Data transfer complete 05:13Z.
- 07-29: Data transfer complete 04:43Z. CAPABL mount down overnight.

MWR:

- As of 10-28, 150-90 operating in V11_SCAN_HF.MBF.

SODAR:

- Operating normally.

POSS:

- Operating normally in old software.

MMCR:

- Operating normally.
- Pitch 0.00, Roll 0.00.
- 07-23: 12:34Z- Receiver Cal Error 7 found, "Continue" selected. Daily checks pass afterwards, though daily calibration was skipped due to the error being present at 12:30Z.
- 07-26: NetCDF errors found. Reboot performed 18:09-19:07Z. Four reboots performed before system restarted correctly.
- 07-27: Mount down overnight, previous day's data did not transfer. Transfer started remotely by Matt Shupe.

CAPABL:

- Operating normally in Floating Ref Laser 2.
- 07-27: Computer clock 30 seconds behind GPS time. Adjusted 12:15Z.
- 07-28: Disk Boot Error found. Turned Laser 2 off, power cycled Licel, Meadowlark, and computer. Attempts to restart LabView in the normal Laser 2 Ops mode were unsuccessful. Robert had me power cycle the mirrors and load the Floating Ref Laser 2 file. CAPABL

returned to normal data operations at 17:40Z.

MPL:

- Operating normally.
- 07-27: Computer 20 seconds ahead of GPS, reset at 12:32Z.

VCEIL:

- Operating normally.

IceCAM:

- Operating normally.

PAERI:

- Operating normally.

TSI:

- Operating normally.

IcePIC:

- No images captured this week.

Radiosonde:

- Twice daily soundings.

MASC:

- Instrument offsite for repair, will not return until summer 2019.