

ICECAPS Weekly Report

November 13 – November 19, 2017

Hannah James



Although the sun officially set the previous day, a strong inversion on Tuesday provided one last look for 2017. -HJ

General:

- The Hotplate and MASC were brought inside for inspection/further troubleshooting. Summit experienced a planned power outage on 2017-11-18 lasting from 13:03-13:05Z and 13:06-13:08Z. The MSF had a very sporadic internet connection on 2017-11-19. On the same day, the KVM switch hosting Dataman/POSS/IceCam, MWR, and SODAR computers stopped working, therefore preventing access to all these instruments.

Significant Weather Observations:

- 11-13: Few stratus, sct altostratus, bkn cirrus. -32C, 13 kts. Fzfg, -sn in the afternoon.
- 11-14: Few stratus, sct altostratus, sct cirrus. -45C, 13 kts. Vcfzfg. 13:00Z- fatamorgana.
- 11-15: Sct altostratus, sct cirrus. -41C, 13 kts. Br.
- 11-16: Sct altostratus, sct cirrus. -46C, 14 kts. Vcfzfg.
- 11-17: Bkn stratus, ovc cirrostratus. -37C, 14kts. Br, -sn in morning.
- 11-18: Few cirrostratus. -47C, 14 kts.
- 11-19: Few cirrostratus on far horizon, clear overhead for most of the day. -50C, 16 kts. Br in morning, fzfg in evening.

ICECAPS Data Management:

- 11-13: Data transfer complete 10:55Z.
- 11-14: Data transfer complete 12:16Z.
- 11-15: Data transfer complete 12:35Z.
- 11-16: Data transfer complete 12:11Z.

- 11-17: Data transfer complete 12:14Z.
- 11-18: Data transfer complete in late afternoon.
- 11-19: Data transfer not completed due to broken internet connection to MSF throughout the day.

MWR:

- As of 10-28, 150-90 operating in V11_SCAN_HF.MBF. HATPRO remains on and heated until weather conditions allow it to come off the MSF roof.
- KVM issues preventing direct access, accessible via LogMeIn.

SODAR:

- Operating normally.
- KVM issues preventing access.

POSS:

- KVM issues preventing access.
- Old POSS software unable to run due to a “segmentation fault” beginning 11-15. No data collection since.
- Working with Peter at EC to run new software. POSS offline from time to time while troubleshooting.

MMCR:

- Operating normally.
- 11-17: 04:00Z- “Could not read calibration table NetCDF file” error appeared. System rebooted multiple times starting 14:10Z, resumed data collection at 17:38Z.
- 11-18: MMCR found with an unexpected shutdown message. Rebooted, running with daily checks passing at 12:51Z.

CAPABL:

- Operating normally.
- 11-19: Found with Block Diagram for Polarization Control open and error line flashing. Robert was contacted; he was able to remote in. Per his request, a flashlamp change was performed on Laser 1. CAPABL was off from 18:02-19:09Z during this process.

MPL:

- Operating normally.

VCEIL:

- Operating normally.

Hotplate:

- Currently in the MSF to troubleshoot persistent miscellaneous errors.
- 11-17: 17:11Z- powered down for further troubleshooting in the MSF.

IceCAM:

- Operating normally.

PAERI:

- Operating normally.

TSI:

- In the MSF for winter storage.

IcePIC:

- No images collected this week.

Radiosonde:

- Twice daily soundings.

MASC:

- 11-17: 18:00Z- MASC shut down to bring inside to check for leaks, inspect desiccant etc. Electronics box was raised.