

ICECAPS Weekly Report

August 7 – 13, 2017

Sam Dorsi



With 72 full cylinders as backdrop, Marissa tests out access to the balloon warming oven. SWD

General:

- An unplanned power outage took place on 2017-08-09 12:56 to 12:59Z. A planned power outage took place 2017-08-11 from 10:29 to 10:30Z.

Significant Weather Observations:

- 08-07: Overcast stratus. -12C, 4 kts.
- 08-08: Broken stratus. -11C, 11 kts.
- 08-09: Broken stratus, -12C, 11 kts.
- 08-10: Broken stratus, light snow, drifting snow, -12C, 18 kts.
- 08-11: Broken stratus, ice crystals present but no halos observed, drifting snow, -13C, 13 kts.
- 08-12: Broken stratocumulus, light snow, -13C 9 kts.
- 08-13: Overcast stratus, ice crystals, solar pillar and sun dogs at 8:10Z, -15C, 14 kts.

ICECAPS Data Management:

- 08-07: Data transfer complete 05:48Z.
- 08-08: Data transfer did not complete. NOAA server issue addressed by Kelly Healy. Transfers reinitiated at 13:13Z, but did not complete by the end of the day.
- 08-09: Data transfer complete 16:29Z.

- 08-10: Data transfer complete 13:31Z.
- 08-11: Data transfer complete 17:21Z.
- 08-12: Data transfer complete 13:19Z.
- 08-13: Data transfer complete 13:05Z.

MWR:

- Operating normally.
- 08-08: Inventory of MWR and ceilometer insulation supplies set to Erik.

SODAR:

- Operating normally.
- 08-11: Dishes cleaned from 11:54 to 12:00Z.

POSS:

- Operating normally.
- 08-11: The POSS log for 01:54:47 shows error 'old posaccmsod: 84.599998, new posaccmsod: -99.00000 (pwr cycled?)'.
- 08-12: The 'posaccmsod' message reappeared. In addition, some POSS messages and error codes appear truncated.
- 08-13: Occasional truncated messages and a 'posaccmsod' message appear in log.

MMCR:

- Operating normally.
- 08-10 to 08-13: Log files show calibration table error.
- Pitch 0.00 to -0.10, Roll 0.00 to -0.11 as of 08-03. Continuing to monitor Pitch and Roll readings under varying sunshine conditions.

CAPABL:

- Operating normally.

MPL:

- Operating normally.

VCEIL:

- Operating normally.

Hotplate:

- Operating normally.

IceCAM:

- Operating normally.

PAERI:

- Operating normally.

TSI:

- Operating normally.

IcePIC:

- 08-07: Slides placed for collection E of the MSF from 12:57 to 13:57Z. No accumulation occurred.
- 08-08: Slides remained in same location overnight, 08-07 13:57Z to 08-08 10:35Z, again with no accumulation, despite a small amount of visible falling precipitation as of 10:32Z. Collection table moved to S of the MSF (10:36Z) for improved wind protection. Slides were checked at 13:40Z and photographs showed only a single irregular particle to be present.
- 08-10: Slides placed for collection from 12:29z to 13:27z. Few particles were collected due to high winds on this day; however, those imaged included irregulars, needles and bullet rosettes.

Radiosonde:

- Twice daily soundings.
- 08-10: A large cylinder swap was performed in conjunction with the relocation to the SMG. A comfortable 72 cylinders are currently staged for ICECAPS use.
- 08-10: Balloon preparation was moved to the new workspace in the SMG, starting with the 2017-08-10 00z release.
- Issue with *.mwx and *.spf file permissions prevents transfer by data management scripts. File permissions are manually changed every 1-2 days.

MASC:

- Operating normally.