

ICECAPS Weekly Report

December 18 – December 24, 2017

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A beautiful, calm day on the eve of the Winter Solstice. -HJ

General:

- None to report.

Significant Weather Observations:

- 12-18: Bkn stratus, bkn cirrus. -33C, 16 kts. IC.
- 12-19: Few altostratus, sct cirrus. -44C, 6 kts. IC.
- 12-20: Few cirrus. -50C, 18 kts.
- 12-21: Few cirrostratus in far distance. -48C, 2 kts. Local pollution from generators over MSF at times.
- 12-22: Few cirrostratus in far distance, sky clear overhead. -49C, 17 kts.
- 12-23: Few cirrostratus in far distance, sky clear overhead. -47C, 11 kts.
- 12-24: Sct cirrostratus, bkn cirrus. -46C, 12 kts. Fzfg in early morning, clearing to br.

ICECAPS Data Management:

- 12-18: Data transfer complete 11:32Z.
- 12-19: Data transfer complete 11:21Z.
- 12-20: Data transfer complete 11:36Z.
- 12-21: Data transfer complete 11:30Z.
- 12-22: Data transfer complete 10:59Z.
- 12-23: Data transfer complete 11:53Z.
- 12-24: Data transfer complete 11:27Z.

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.

SODAR:

- Operating normally.
- 12-18: 15:06-1521Z: SODAR transmitting off while removing snow from dishes.

POSS:

- Operating normally in old software.

MMCR:

- Operating normally.
- 12-19: Error 7, Receiver Cal Running messages found during daily checks. Clicked "Continue," normal operations resumed at 13:05Z.
- 12-24: Error 7, Receiver Cal Running messages found during daily checks. Clicked "Continue," normal operations resumed at 12:44Z.

CAPABL:

- Operating normally.
- 12-19: 22:42-22:48Z: CAPABL laser turned off to remove snow from window.

MPL:

- Operating normally.
- 12-19: Aferpulse Calibration performed. MPL not collecting data 17:12-17:33Z. 30m, 30s: 17:14-17:23Z. CopolBkdAvg: 0.000286, CopolBkdStd: 0.000187. 15m, 30s: 17:23-17:31Z. CopolBkdAvg: 0.000246, CopolBkdStd: 0.000271.

VCEIL:

- Operating normally.

Hotplate:

- Operating normally.

IceCAM:

- Operating normally.

PAERI:

- Operating normally.
- 12-18: 13:25-14:11Z: PAERI shelter fan inside to remove ice from fan blades.

TSI:

- In the MSF for winter storage.

IcePIC:

- No images photographed this week.

Radiosonde:

- Twice daily soundings.
- 12-20: Sonde terminated 11 minutes after launch due to "excessive missing data frames." Software did not register launch until ~10 minutes after launch, surface obs window did not automatically pop up. Surface obs entered ~10 minutes after launch, recalculation occurred. No messages were sent, second launch at 12:06Z collected data successfully.

MASC:

- Operating normally.