

# ICECAPS-ACE Weekly Report

June 8 – June 14, 2020

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00Z radiosonde launch on June 12. Photo by Gene Kornman.

## General Notes:

High winds and cloudy skies prevented the PAERI thermistor replacement and CAPABL flashlamp change from occurring this week.

## General Weather Observations:

Date	Time (Z)	Wind	Weather	Visibility	Sky	Temp (C)	Notes
06-08	12	13kts from 226	DRSN	9999	BKN015	-10	
06-09	12	12kts from 139	FZFG	800	OVC000	-11	
06-10	12	17kts from 192	BR	1600	BKN000 BKN064	-8	
06-11	12	13kts from 233	BR DRSN	4800	SCT015 BKN032	-12	
06-12	12	23kts from 297	BR BLSN	700	BKN015	-17	
06-13	12	15kts from 106		9999	BKN032	-17	
06-14	12	16kts from 136	BR DRSN	4800	SCT032 BKN180	-18	

## Significant Weather Observations:

- None.

## MSF

- Temperature gradient developed across the MSF on 2020/06/08 and increased gradually until it collapsed on 2020/06/12. The cause of this anomaly is unknown. HVAC system is being monitored closely.

## ICECAPS-ACE Data Management:

- 06-08: Data transfer completed at 0455Z.
- 06-09: Data transfer completed at 0454Z.
- 06-10: Data transfer completed at 0451Z.

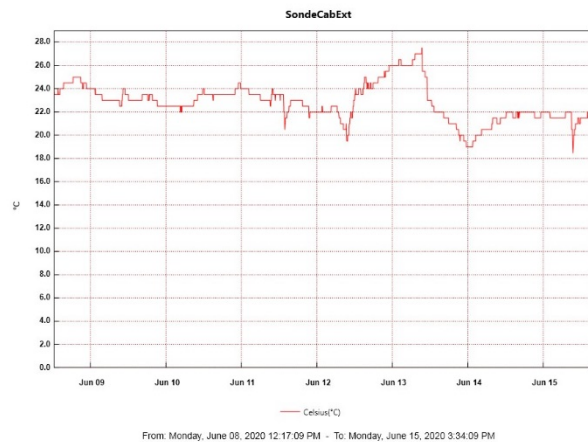
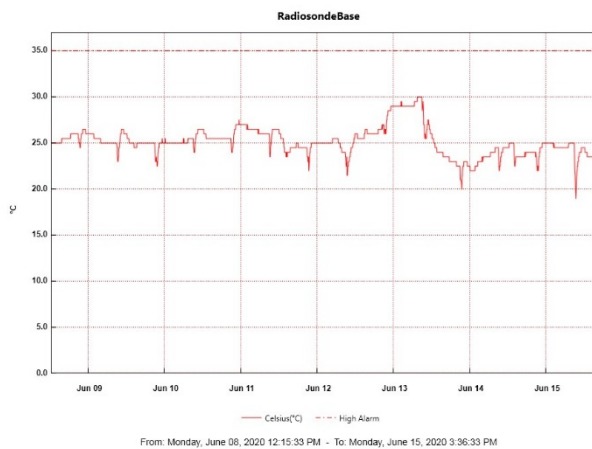
- 06-11: Data transfer completed at 0530Z.
- 06-12: Data transfer completed at 0514Z.
- 06-13: Data transfer completed at 0451Z.
- 06-14: Data transfer completed at 0459Z.

**TSI:**

- Operating normally. No reboots necessary since 2020-06-03.

**Radiosonde:**

- 2020-06-13: SPS was found disconnected prior to 1200Z launch. Temperature in the cabinet was ~30°C. SPS reconnected after Mara power cycled it.
- 2020-06-14: Data from 0000Z launch failed to be transferred to DMI. Possibly due to a brief network outage.
- See charts below for temperatures inside and outside the radiosonde cabinet over the last week.



**MWR:**

- HATPRO offsite for repairs. 150-90 online and operating normally.

**SODAR:**

- 2020-06-07 1803 – 1841Z: SODAR dishes cleaned.
- 2020-06-13 1716 - 1802Z: SODAR dishes cleaned after high winds.
- Operating normally.

**POSS:**

- Offline. Troubleshooting with manufacturer ongoing.

**MASC:**

- Operating normally.

**MMCR:**

- Operating normally. Monitoring transmitter power fluctuations.

**CAPABL:**

- Operating normally.

**MPL:**

- Operating normally. Monitoring laser energy fluctuations.

**CEILOMETER:**

- Operating normally.

**PAERI:**

- Operating normally.

**IceCAM:**

- Operating normally.

**IcePIC:**

- No IcePICs taken this week.

**CLASP:**

- Offline.

**CPC:**

- Offline.

**MSF - OPC:**

- Operating normally.

**TAWO - OPC:**

- Operating normally.

**SKYOPC:**

- 2020-06-13 ~1900Z: Pump failure. Replacement to be installed this week.

**INP Freezing Assay:**

- 2020-06-10: Weekly experiments completed.

**Fluxtower instrument suite:**

- 2020-06-10: Snow depth sensor back online after wiring repairs.
- 2020-06-10 0700 – 1254Z: 3D sonic wind anemometers experienced communications issue. Back online after flux laptop reboot.
- Operating normally.

**Radiometers:**

- 2020-06-08: Completed weekly data download.
- Operating normally.